



**Department of
Environmental
Conservation**

Division of Environmental Remediation

REMEDIAL SYSTEM OPTIMIZATION REPORT – FOURTH QUARTER 2016

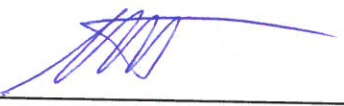
Vestal Water Supply Site
Vestal, New York (Site No. 7-04-009A)

May 2017

**REMEDIAL SYSTEM
OPTIMIZATION
REPORT – FOURTH
QUARTER 2016**

Vestal Water Supply Site

Site No. 7-04-009A



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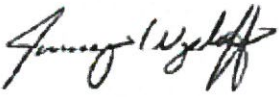
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1 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (# D004443-4) to Arcadis CE, Inc. (Arcadis) for Operation, Maintenance, and Monitoring at the Vestal Water Supply Site (site) in New York State (Site # 7-04-009A) (Figure 1-1).

The NYSDEC is evaluating the efficiency, effectiveness, environmental benefit, and cost of existing environmental remedies by performing a Remedial System Optimization (RSO). The purpose of the RSO is to assess the site's Conceptual Site Model (CSM), provide a summary of the performance of the remedy, document current cleanup practices, provide a summary of progress toward the cleanup goals, and provide recommendations for improvements, if required.

The Well 1-1A groundwater treatment plant was shut down on February 28, 2014 as part of the RSO to evaluate the impacts to groundwater quality while the treatment plant is not operating. In particular, plume migration is being monitored to assess the effects of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the groundwater plume distribution and migration. In addition, soil and groundwater samples have been collected to further evaluate the horizontal and vertical distribution of VOCs in the area of the site.

This Quarterly Report has been prepared to summarize the October 2016 through December 2016 field activities.

2 INVESTIGATION ACTIVITIES

The scope of work for the RSO was designed to provide data for use in evaluation of the existing remedy and to further characterize the nature and extent of contamination in soil and groundwater at the site. The RSO provides information that is being used to assess the efficiency of the remedy and evaluate potential alternative remedial approaches. These data are summarized in the Draft Focused Feasibility Study (FFS), which was submitted to the NYSDEC on June 24, 2015.

The basic scope of work included field oversight of subcontractors (i.e., driller and surveyor), preparation of daily field logs, collection of subsurface and surface soil samples, installation of monitoring wells, monitoring well development and hydraulic conductivity testing, measuring groundwater levels, installation of groundwater level data loggers, shut-down of the Well 1-1A groundwater treatment plant for a period of at least one year, collection of groundwater samples from new and existing wells, evaluation of data, and reporting of conclusions and recommendations.

Currently the investigation includes monthly pre-treatment sampling for the Town of Vestal water supply wells 1-2A and 1-3 and quarterly groundwater sampling from the new and existing monitoring wells.

2.1 Groundwater Sampling

As recommended in the 4th quarter 2014 RSO Report, groundwater samples were collected from a revised sample list (Table 2-1) which was approved by the NYSDEC on March 19, 2015. Monitoring wells were selected to focus on plume migration and distribution on the north side of NYS Route 17 including wells surrounding the Town of Vestal water supply wells 1-2A and 1-3 and Well 1-1. (Figure 2-2). Groundwater samples were collected using passive diffusion bags (PDBs) in accordance with the RSO Work Plan and were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures. The USEPA ERT monitoring wells on the ECO International property and Well 1-1A are not included on the revised sample list (discussed above) and were not sampled during this event.

2.1.1 Water Level Data

Groundwater levels were measured on November 3, 2016 using an oil-water interface probe. As indicated in Section 1, the Well 1-1A treatment plant continues to be shut down, therefore, groundwater levels are representative of static (non-pumping) conditions. Groundwater levels were used to calculate groundwater elevations and assess groundwater flow conditions across the site. A summary of groundwater elevation data is provided in Table 2-2. The ERT wells were not gauged during this event.

The November 3, 2016 potentiometric maps (Figures 2-2, 2-3, and 2-4) provide groundwater flow information for the shallow, intermediate, and deep groundwater monitoring zones during the Well 1-1A treatment plant shutdown period.

2.1.1.1 November 2016 Potentiometric Maps (November 3, 2016)

As shown on Figures 2-2 and 2-3, the direction of groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest. Figure 2-4 shows that the direction of groundwater flow in the deep groundwater monitoring zone between the Well 1-1A treatment facility and

the Town of Vestal, Wells 1-2A and 1-3 is generally north to northeast, toward the Susquehanna River. The groundwater flow direction in the shallow, intermediate, and deep monitoring zones are generally consistent with the previous groundwater flow assessments for the respective monitoring zones.

2.1.2 November 2016 Groundwater Sampling

On November 28, 2016 groundwater samples were collected using PDBs that were deployed on November 3, 2016 in the wells identified on Table 2-1. Former treatment system Well 1-1 was also included in accordance with the fourth quarter 2014 RSO Report recommendations and subsequent NYSDEC approval on March 2015. The USEPA ERT monitoring wells (Figure 2-1) on the ECO International property (the source area) are not part of the sampling program. Extraction Well 1-1A was sampled during the baseline event, but since the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

2.1.2.1 November 2016 Groundwater Sampling Results

Groundwater results from the November 2016 groundwater sampling event are provided in Table 2-3. The VOCs measured at the highest concentrations were benzene, chloroethane, 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), trichloroethene (TCE), and vinyl chloride (VC). Total VOC concentrations measured at the shallow, intermediate, and deep groundwater monitoring zones, during the November groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

As shown in Figure 2-5 and Table 2-3, VOCs were detected in the following four wells that are screened in the shallow groundwater zone; 4009-9, 4009-10, 4009-16A, and 4009-30A. Benzene was the only VOC detected in monitoring wells 4009-10 and 4009-16A. The benzene concentration exceeded the NYSDEC Class GA groundwater standard in both samples. TCE was detected at a low estimated concentration and benzene and cis-1,2 DCE were the only VOCs exceeding their respective NYSDEC Class GA Groundwater Standard in the sample collected from monitoring well 4009-9. A low estimated concentration of 1,1-DCA was detected in the sample from monitoring well 4009-30A. VOCs were not detected in the shallow groundwater zone monitoring wells 4009-11A and 4009-13A during the November 2016 sampling event. The total VOCs measured at each of the shallow monitoring wells is as follows; 4009-9 (21.1 µg/L), 4009-10 (3.4 µg/L), 4009-16A (36 µg/L), and 4009-30A (0.63 µg/L).

As shown on Figure 2-6 and Table 2-3, the intermediate groundwater zone continues to be an area where several monitoring wells down-gradient of the source area (ECO International property) contain the majority of higher concentration of VOCs as compared to the shallow and deep groundwater zone wells that are currently sampled. The highest VOC concentrations in the intermediate groundwater samples collected during the November sampling event were from well 4009-29S (237 µg/L), followed by 4009-29I (200 µg/L) and 4009-27S (122 µg/L). The lowest VOC concentration in the intermediate groundwater zone was from monitoring well 4009-27I (1.50 µg/L). With the exception of benzene which is discussed below, during the November 2016 event monitoring wells 4009-29S and 4009-29I showed large decreases in the concentrations of the following VOCs: 1,1,1-TCA, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, TCE, and VC. The VOC concentrations in monitoring wells 4009-27S and 4009-27I remain relatively consistent with previous data over the past several years.

The following 11 monitoring wells screened in the deep groundwater monitoring zone contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards; 4009-11, 4009-12, 4009-13, 4009-14, 4009-15, 4009-16, 4009-18, 4009-21, 4009-22, 4009-29D, and Well 1-1 (Figure 2-7 and Table 2-3). Benzene (discussed below) was the only VOC exceeding the NYSDEC Class GA Groundwater Standard of 1.0 µg/L in nine of the 11 monitoring wells listed above, with concentrations ranging from 1.1 µg/L (4009-22) to 19 µg/L (4009-21). The total VOCs measured in the remaining two deep monitoring wells is as follows; 4009-29D (56.3 µg/L) and Well 1-1 (397 µg/L).

Figure 2-8 shows the plume under the revised sample list. With the exception of Well 1-1 the highest groundwater concentrations were detected in the 4009-29 well cluster. The clustered area of several higher concentrations extends slightly southward to the 4009-27 cluster, and to the northwest to Well 1-1. However, based on previous sampling results, the elevated groundwater concentrations at these locations would only be representative of the tail of the groundwater plume. Based on the horizontal and vertical distribution of VOCs, it appears that the long-term pumping at extraction Wells 1-1 and replacement Well 1-1A has caused the plume to be drawn from the water table in the vicinity of the source area, to greater than 100 feet bgs approximately 2,000 feet to the west.

Total VOCs detected in the groundwater samples collected in the November 2016 sampling event are generally consistent with the range of results reported during the last two years with the exception of six wells; 4009-11, 4009-12, 4009-14, 4009-15, 4009-29S, and 4009-29I. Wells 4009-12, 4009-29S, and 4009-29I all showed overall decreases in total VOC concentrations. Wells 4009-14 and 4009-15 have had increases in benzene over the past few sampling events and several VOC concentrations including; 1,1,1-TCA, 1,1-DCA, cis-1,2-DCE, and VC have fluctuated above and below their respective NYSDEC Class GA Standard during the past several sampling events in monitoring well 4009-11.

Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestal's water supply wells 1-2A and 1-3 (monitoring wells 4009-16/16A, 4009-18, 4009-19, 4009-21, 4009-30/30A) are generally consistent with the previous sampling events with the exception of benzene in monitoring well 4009-16A which has fluctuated over the past several events. The concentration of VOCs in monitoring well 4009-9 were non-detect. Benzene was the only VOC detected in the following samples 4009-16 (1.8 µg/L), 4009-16A (36 µg/L), 4009-18 (1.7 µg/L), and 4009-21 (19 µg/L). An estimated concentration of 1,1-DCA less than the NYSDEC Class GA Standard (5.0 µg/L) was detected in the samples from 4009-30A (0.63 µg/L) and 4009-30 (0.93 µg/L). The sample from well 4009-30 also had a concentration of benzene (1.0 µg/L). The benzene detected in 4009-16, 4009-16A, 4009-18, and 4009-21 were greater than the respective NYSDEC Class GA Standard for benzene (1.0 µg/L). Concentration trends will continue to be monitored during the next quarter.

Benzene concentrations have increased in the central portion of the study area over the past two years including monitoring wells 4009-12, 4009-14, 4009-15, 4009-16, 4009-16A, 4009-21, 4009-29S and 4009-29I. During the November 2016 sampling event, benzene concentrations were detected in the following shallow monitoring wells; 4009-9 (1.3 µg/L), 4009-10 (3.4 µg/L), and 4009-16A (36 µg/L), in the intermediate groundwater monitoring zone at monitoring wells 4009-27I (1.5 µg/L), 4009-29S (98 µg/L), 4009-29I (120 µg/L), and the deep monitoring wells; 4009-11 (16 µg/L), 4009-12 (9.1 µg/L), 4009-13 (1.9 µg/L), 4009-14 (17 µg/L), 4009-15 (9.0 µg/L), 4009-16 (1.8 µg/L), 4009-18 (1.7 µg/L), 4009-21 (19 µg/L), 4009-22 (1.1 µg/L), and 4009-30 (1.0 µg/L). Benzene concentrations in samples from 15 of the 16 wells

listed above exceeded the NYSDEC Class GA Groundwater Standard of 1.0 µg/L for benzene (Figures 2-9 through 2-12). The highest benzene concentrations were noted in 4009-29S and 4009-29, where benzene concentrations are the highest detected since the initiation of RSO monitoring. These concentrations will continue to be monitored during the next quarter. Due to some inconsistencies with the data as noted above, a third-party validator reviewed the data for the November 2016 sampling event for monitoring wells 4009-29S and 4009-29I. The data validator reported results were usable as reported.

2.1.3 Town of Vestal Municipal Well Sampling

Monthly analytical data are provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3. Samples were collected on October 18, 2016, November 8, 2016, and December 16, 2016. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 on October 31, 2016, November 28, 2016, and December 29, 2016. These samples were used to supplement the Town's monthly influent sampling data and to evaluate potential impacts to the Town's water supply wells related to the shutdown of the Well 1-1A treatment plant. Samples were collected in consultation with the Town of Vestal Water District Superintendent and submitted to TestAmerica for analysis of VOCs by USEPA Method 8260.

VOCs associated with contamination from the source area were not detected in any of the pre-treatment effluent samples collected from the Town of Vestal water supply wells 1-2A and 1-3 during this reporting period. A summary of the monthly analytical data is provided in Table 2-4. Laboratory analytical reporting forms are provided in Appendix A.

3 RECOMMENDATIONS

Town of Vestal Wells 1-2A and 1-3 should continue to be sampled on a monthly basis to supplement the Town's sampling program at least until the final remedies for OU1 and OU2 are implemented. In addition, quarterly groundwater monitoring should continue while the Well 1-1A treatment plant is shut down; however, it is recommended that the monitoring program be modified to include sampling of the following additional monitoring wells near the ERT source area to evaluate whether this area is the source of the elevated benzene concentrations:

- 4009-7
- 4009-8
- 4009-26

Since these well have not been previously sampled under the RSO monitoring, they should be sampled first with PDBs, and then using traditional low-flow monitoring methods, to evaluate the accuracy of the PDB sampling at these locations. It is also recommended that the same procedure be used at the following monitoring wells to evaluate any differences in VOC concentrations between the two methods:

- 4009-27S
- 4009-27I
- 4009-29S
- 4009-29I

The low-flow sampling can be conducted concurrently with the site-wide low-flow sampling event that has been requested by the NYSDEC to allow for the collection of samples for perfluorinated compounds (PFCs) and 1,4-dioxane.

4 ACTIVITIES FOR NEXT QUARTER

Scheduled activities for the next quarter are summarized below.

- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.
- Quarterly groundwater sampling, including the additional monitoring wells (4009-7, 4009-8, and 4009-26) (March 2017).

TABLES



Table 2-1 Summary of the Groundwater Monitoring Locations
Remedial Site Optimization Report /Fourth Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	2016 Quarterly Monitoring Locations
4009-9	X
4009-10	X
4009-11	X
4009-11A	X
4009-12	X
4009-13	X
4009-13A	X
4009-14	X
4009-15	X
4009-16	X
4009-16A	X
4009-18	X
4009-19	X
4009-21	X
4009-22	X
4009-27S	X
4009-27I	X
4009-27D	X
4009-28	X
4009-29S	X
4009-29I	X
4009-29D	X
4009-30	X
WELL 1-1	X

WELL I.D.	Top of Riser (ft AMSL)	2/19/2014			3/17/2014			5/12/2014			8/11/2014			11/24/2014			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	7.43	NP	824.55	7.15	NP	824.83	7.26	NP	824.72	7.75	NP	824.23	7.80	NP	824.18	
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88	19.77	NP	808.01	20.22	NP	807.56	
4009-3	823.47	16.92	NP	806.55	14.52	NP	808.95	15.10	NP	808.37	17.94	NP	805.53	17.23	NP	806.24	
4009-4	822.22	11.87	NP	810.35	10.64	NP	811.58	10.80	NP	811.42	13.87	NP	808.35	13.65	NP	808.57	
4009-5	824.36	18.47	NP	805.89	16.23	NP	808.13	17.70	NP	806.66	21.94	NP	802.42	18.85	NP	805.51	
4009-6	827.73	20.88	NP	806.85	19.38	NP	808.35	19.50	NP	808.23	21.80	NP	805.93	21.73	NP	806.00	
4009-7	824.27	18.76	NP	805.51	16.28	NP	807.99	16.91	NP	807.36	20.22	NP	804.05	19.34	NP	804.93	
4009-8	824.52	19.69	NP	804.83	13.28	NP	811.24	17.60	NP	806.92	20.96	NP	803.56	20.24	NP	804.28	
4009-9	825.05	20.36	NP	804.69	18.00	NP	807.05	18.82	NP	806.23	21.84	NP	803.21	21.28	NP	803.77	
4009-10	831.31	26.44	NP	804.87	24.28	NP	807.03	24.95	NP	806.36	27.88	NP	803.43	27.43	NP	803.88	
4009-11	830.06	26.95	NP	803.11	23.75	NP	806.31	24.89	NP	805.17	28.36	NP	801.70	26.51	NP	803.55	
4009-11A	830.80	15.22	NP	815.58	14.78	NP	816.02	14.56	NP	816.24	16.69	NP	814.11	20.43	NP	810.37	
4009-12	823.34	18.80	NP	804.54	16.68	NP	806.66	17.52	NP	805.82	20.90	NP	802.44	19.22	NP	804.12	
4009-12A	823.80	20.21	NP	803.59	16.60	NP	807.20	17.98	NP	805.82	21.35	NP	802.45	20.05	NP	803.75	
4009-13	816.28	12.31	NP	803.97	8.97	NP	807.31	10.42	NP	805.86	13.60	NP	802.68	12.07	NP	804.21	
4009-13A	816.17	11.74	NP	804.43	8.72	NP	807.45	9.94	NP	806.23	13.00	NP	803.17	11.93	NP	804.24	
4009-14	820.71	16.62	NP	804.09	13.43	NP	807.28	15.36	NP	805.35	18.07	NP	802.64	16.57	NP	804.14	
4009-15	826.54	22.63	NP	803.91	19.35	NP	807.19	11.93	NP	814.61	24.18	NP	802.36	22.53	NP	804.01	
4009-16	826.72	22.68	NP	804.04	19.50	NP	807.22	21.12	NP	805.60	24.30	NP	802.42	22.70	NP	804.02	
4009-16A	826.84	22.45	NP	804.39	19.45	NP	807.39	21.22	NP	805.62	24.31	NP	802.53	22.72	NP	804.12	
4009-17	820.53	26.12	NP	794.41	12.95	NP	807.58	14.52	NP	806.01	17.66	NP	802.87	17.18	NP	803.35	
4009-18	834.78	30.59	NP	804.19	27.61	NP	807.17	29.38	NP	805.40	32.23	NP	802.55	30.73	NP	804.05	
4009-19	824.94	20.79	NP	804.15	17.78	NP	807.16	19.54	NP	805.40	22.42	NP	802.52	20.91	NP	804.03	
4009-20	822.90	18.45	NP	804.45	15.60	NP	807.30	17.82	NP	805.08	20.25	NP	802.65	18.69	NP	804.21	
4009-21	825.02	**	18.90	NP	804.20	15.90	NP	807.20	17.65	NP	805.45	20.55	NP	802.55	19.03	NP	804.07
4009-22	817.40	13.06	NP	804.34	9.85	NP	807.55	11.50	NP	805.90	14.03	NP	803.37	13.27	NP	804.13	
4009-23S	824.48	16.65	NP	807.83	15.48	NP	809.00	14.88	NP	809.60	17.74	NP	806.74	18.33	NP	806.15	
4009-23D	824.39	18.93	NP	805.46	16.37	NP	808.02	17.15	NP	807.24	20.50	NP	803.89	19.23	NP	805.16	
4009-24	822.32	15.52	NP	806.80	13.38	NP	808.94	13.99	NP	808.33	16.94	NP	805.38	16.15	NP	806.17	
4009-25S	823.61	14.77	NP	808.84	13.84	NP	809.77	13.95	NP	809.66	15.87	NP	807.74	16.00	NP	807.61	
4009-25D	823.57	14.98	NP	808.59	13.70	NP	809.87	13.78	NP	809.79	15.85	NP	807.72	16.00	NP	807.57	
4009-26	824.31	19.36	NP	804.95	16.55	NP	807.76	17.39	NP	806.92	20.62	NP	803.69	19.92	NP	804.39	
4009-27S	826.19	21.97	NP	804.22	18.80	NP	807.39	20.02	NP	806.17	23.29	NP	802.90	22.02	NP	804.17	
4009-27I	826.03	21.93	NP	804.10	18.63	NP	807.40	19.98	NP	806.05	23.18	NP	802.85	21.85	NP	804.18	
4009-27D	825.87	21.90	NP	803.97	18.43	NP	807.44	19.88	NP	805.99	23.02	NP	802.85	21.65	NP	804.22	
4009-28	821.59	17.71	NP	803.88	14.45	NP	807.14	16.00	NP	805.59	19.23	NP	802.36	17.65	NP	803.94	
4009-29S	825.77	21.75	NP	804.02	18.42	NP	807.35	19.75	NP	806.02	23.03	NP	802.74	21.60	NP	804.17	
4009-29I	825.68	21.94	NP	803.74	18.51	NP	807.17	19.86	NP	805.82	23.22	NP	802.46	21.61	NP	804.07	
4009-29D	825.67	21.92	NP	803.75	18.54	NP	807.13	19.80	NP	805.87	23.18	NP	802.49	21.60	NP	804.07	
4009-30	827.50	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
WELL 1-1	832.36	29.09	NP	803.27	25.23	NP	807.13	25.50	NP	806.86	30.00	NP	802.36	28.33	NP	804.03	
WELL 1-1A	831.13	24.93	NP	806.20	24.13	NP	807.00	26.72	NP	804.41	23.03	NP	808.10	27.10	NP	804.03	
ERT-1S	824.01	12.65	11.72	810.57	11.83	10.88	811.37	11.53	10.62	811.71	13.96	12.95	809.19	14.96	14.02	808.25	
ERT-1I	824.03	13.45	NP	810.58	12.43	NP	811.60	12.42	NP	811.61	15.17	NP	808.86	15.23	NP	808.80	
ERT-1D	823.88	13.50	13.49	810.38	12.50	NP	811.38	12.42	NP	811.46	15.29	NP	808.59	15.18	NP	808.70	
ERT-2I	824.54	*	14.07	NP	810.47	13.08	NP	811.46	13.06	NP	811.48	15.60	NP	808.94	15.71	15.70	808.83
ERT-2D	824.44	*	12.98	NP	811.46	12.88	NP	811.56	12.56	12.55	811.88	14.97	14.96	809.46	15.28	NP	809.16
ERT-3S	824.38	13.29	NP	811.09	12.94	NP	811.44	11.83	NP	812.55	14.14	NP	810.24	15.09	NP	809.29	
ERT-3I	824.23	14.21	NP	810.02	13.23	NP	811.00	13.20	NP	811.03	15.73	NP	808.50	15.85	NP	808.38	
ERT-3D	824.20	14.95	NP	809.25	14.62	NP	809.58	13.78	NP	810.42	16.72	16.71	807.47	16.20	NP	808.00	
ERT-4S	823.54	13.32	NP	810.22	12.58	NP	810.96	12.85	NP	810.69	Dry	NP	--	Dry	NP	--	
ERT-4I	823.49	14.23	NP	809.26	13.37	NP	810.12	13.42	NP	810.07	5.58	NP	817.91	15.70	NP	807.79	
ERT-4D	823.63	14.55	NP	809.08	13.56	NP	810.07	13.63	NP	810.00	15.70	NP	807.93	15.90	NP	807.73	
ERT-5	824.64	*	NM	NM	12.34	NP	812.30	12.40	NP	812.24	15.28	NP	809.36	14.93	NP	809.71	
ERT-6	824.74	*	14.25	NP	810.49	13.05	NP	811.69	13.15	13.14	811.59	16.03	NP	808.71	15.64	NP	809.10
ERT-7	823.96	15.38	NP	808.58	14.25	NP	809.71	14.55	NP	809.41	17.61	NP	806.35	16.80	NP	807.16	
ERT-8	824.69	16.70	NP	807.99	15.13	NP	809.56	15.50	NP	809.19	18.57	NP	806.12	17.66	NP	807.03	

Notes:
fbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
Corrected based on assumed LNAPL density of 0.85 g/cm3

WELL I.D.	Top of Riser (ft AMSL)	4/1/2015			7/13/2015			10/12/2015			3/28/2016			6/1/2016			
		DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	
4009-1	831.98	7.64	NP	824.34	6.89	NP	825.09	8.03	NP	823.95	7.41	NP	824.57	6.50	NP	825.48	
4009-2	827.78	19.22	NP	808.56	18.11	NP	809.67	20.64	NP	807.14	18.93	NP	808.85	19.48	NP	808.30	
4009-3	823.47	15.90	NP	807.57	14.87	NP	808.60	18.64	NP	804.83	16.3	NP	807.17	17.33	NP	806.14	
4009-4	822.22	12.22	NP	810.00	10.80	NP	811.42	14.43	NP	807.79	12.03	NP	810.19	12.84	NP	809.38	
4009-5	824.36	17.80	NP	806.56	16.77	NP	807.59	20.69	NP	803.67	18.65	NP	805.71	19.85	NP	804.51	
4009-6	827.73	20.48	NP	807.25	19.23	NP	808.50	22.41	NP	805.32	20.57	NP	807.16	21.47	NP	806.26	
4009-7	824.27	17.74	NP	806.53	16.53	NP	807.74	21.17	NP	803.10	18.35	NP	805.92	19.69	NP	804.58	
4009-8	824.52	18.26	NP	806.26	17.05	NP	807.47	22.03	NP	802.49	18.97	NP	805.55	20.46	NP	804.06	
4009-9	825.05	19.23	NP	805.82	18.02	NP	807.03	22.83	NP	802.22	19.84	NP	805.21	21.43	NP	803.62	
4009-10	831.31	25.48	NP	805.83	24.16	NP	807.15	28.84	NP	802.47	20.95	NP	810.36	27.44	NP	803.87	
4009-11	830.06	24.89	NP	805.17	24.72	NP	805.34	28.80	NP	801.26	26.25	NP	803.81	27.69	NP	802.37	
4009-11A	830.80	14.94	NP	815.86	14.77	NP	816.03	16.97	NP	813.83	16.05	NP	814.75	16.60	NP	814.20	
4009-12	823.34	17.45	NP	805.89	17.34	NP	806.00	21.56	NP	801.78	18.9	NP	804.44	20.26	NP	803.08	
4009-12A	823.80	17.91	NP	805.89	17.79	NP	806.01	22.03	NP	801.77	19.35	NP	804.45	20.70	NP	803.10	
4009-13	816.28	10.37	NP	805.91	10.09	NP	806.19	14.29	NP	801.99	11.68	NP	804.60	12.98	NP	803.30	
4009-13A	816.17	10.09	NP	806.08	9.38	NP	806.79	13.97	NP	802.20	11.12	NP	805.05	12.51	NP	803.66	
4009-14	820.71	14.80	NP	805.91	14.66	NP	806.05	18.73	NP	801.98	16.23	NP	804.48	17.47	NP	803.24	
4009-15	826.54	20.76	NP	805.78	20.85	NP	805.69	24.79	NP	801.75	22.21	NP	804.33	23.48	NP	803.06	
4009-16	826.72	20.93	NP	805.79	26.87	NP	799.85	25.01	NP	801.71	22.38	NP	804.34	23.62	NP	803.10	
4009-16A	826.84	20.94	NP	805.90	27.03	NP	799.81	25.18	NP	801.66	22.51	NP	804.33	23.49	NP	803.35	
4009-17	820.53	14.55	NP	805.98	14.25	NP	806.28	18.50	NP	802.03	15.86	NP	804.67	16.98	NP	803.55	
4009-18	834.78	26.51	NP	808.27	29.02	NP	805.76	33.04	NP	801.74	30.65	NP	804.13	31.59	NP	803.19	
4009-19	824.94	19.15	NP	805.79	19.19	NP	805.75	23.31	NP	801.63	20.99	NP	803.95	21.78	NP	803.16	
4009-20	822.90	17.04	NP	805.86	17.29	NP	805.61	21.29	NP	801.61	18.56	NP	804.34	19.55	NP	803.35	
4009-21	825.02	**	19.33	NP	805.69	19.41	NP	805.61	23.98	NP	801.04	22.03	NP	802.99	21.98	NP	803.04
4009-22	817.40	11.55	NP	805.85	9.90	NP	807.50	13.28	NP	804.12	11.42	NP	805.98	11.95	NP	805.45	
4009-23S	824.48	17.02	NP	807.46	14.17	NP	810.31	19.10	NP	805.38	16.71	NP	807.77	17.56	NP	806.92	
4009-23D	824.39	17.93	NP	806.46	16.90	NP	807.49	19.13	NP	805.26	18.64	NP	805.75	19.95	NP	804.44	
4009-24	822.32	16.19	NP	806.13	13.82	NP	808.50	NM	NM	NM	15.20	NP	807.12	16.35	NP	805.97	
4009-25S	823.61	14.81	NP	808.80	13.73	NP	809.88	16.72	NP	806.89	14.68	NP	808.93	15.35	NP	808.26	
4009-25D	823.57	14.75	NP	808.82	13.65	NP	809.92	16.70	NP	806.87	14.64	NP	808.93	15.32	NP	808.25	
4009-26	824.31	17.94	NP	806.37	16.75	NP	807.56	21.69	NP	802.62	18.68	NP	805.63	20.12	NP	804.19	
4009-27S	826.19	20.27	NP	805.92	19.56	NP	806.63	24.14	NP	802.05	21.30	NP	804.89	22.72	NP	803.47	
4009-27I	826.03	20.03	NP	806.00	19.58	NP	806.45	23.98	NP	802.05	21.23	NP	804.80	22.61	NP	803.42	
4009-27D	825.87	19.86	NP	806.01	19.41	NP	806.46	23.80	NP	802.07	21.05	NP	804.82	22.42	NP	803.45	
4009-28	821.59	15.80	NP	805.79	15.72	NP	805.87	19.85	NP	801.74	17.3	NP	804.29	18.58	NP	803.01	
4009-29S	825.77	19.80	NP	805.97	19.40	NP	806.37	23.83	NP	801.94	21.11	NP	804.66	22.43	NP	803.34	
4009-29I	825.68	19.89	NP	805.79	19.63	NP	806.05	23.91	NP	801.77	21.27	NP	804.41	22.55	NP	803.13	
4009-29D	825.67	19.86	NP	805.81	19.81	NP	805.86	23.89	NP	801.78	21.19	NP	804.48	22.55	NP	803.12	
4009-30	827.50	**	21.32	NP	806.18	20.81	NP	806.69	25.81	NP	801.69	22.38	NP	805.12	24.26	NP	803.24
WELL 1-1	832.36	26.56	NP	805.80	26.46	NP	805.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	
WELL 1-1A	831.13	24.21	NP	806.92	25.37	NP	805.76	29.42	NP	801.71	25.15	NP	805.98	28.35	NP	802.78	
ERT-1S	824.01	13.36	12.48	809.90	9.55	8.60	813.65	13.45	NP	810.56	12.73	12.10	810.74	12.68	12.10	810.84	
ERT-1I	824.03	13.83	NP	810.20	12.46	NP	811.57	15.93	NP	808.10	13.60	NP	810.43	14.35	NP	809.68	
ERT-1D	823.88	13.80	NP	810.08	10.80	10.72	813.01	15.97	NP	807.91	13.69	NP	810.19	14.49	NP	809.39	
ERT-2I	824.54	*	14.36	NP	810.18	13.08	NP	811.46	16.35	NP	808.19	14.15	NP	810.39	14.88	NP	809.66
ERT-2D	824.44	*	14.21	NP	810.23	12.80	NP	811.64	16.39	NP	808.05	11.78	NP	812.66	13.54	NP	810.90
ERT-3S	824.38	13.94	NP	810.44	11.21	NP	813.17	15.40	NP	808.98	13.39	NP	810.99	NM	NM	NM	
ERT-3I	824.23	14.53	NP	809.70	13.21	NP	811.02	16.57	NP	807.66	14.33	NP	809.90	NM	NM	NM	
ERT-3D	824.20	15.01	NP	809.19	13.75	NP	810.45	17.22	NP	806.98	15.13	NP	809.07	NM	NM	NM	
ERT-4S	823.54	13.18	NP	810.36	11.81	NP	811.73	Dry	NP	--	NM	NM	NM	Dry	NP	--	
ERT-4I	823.49	14.46	NP	809.03	13.31	13.30	810.17	16.38	NP	807.11	NM	NM	NM	14.99	NP	808.50	
ERT-4D	823.63	14.64	NP	808.99	13.51	13.49	810.10	16.57	NP	807.06	NM	NM	NM	15.19	NP	808.44	
ERT-5	824.64	*	13.68	NP	810.96	12.45	NP	812.19	15.81	NP	808.83	13.70	NP	810.94	14.56	NP	810.08
ERT-6	824.74	*	14.39	NP	810.35	13.13	NP	811.61	16.64	NP	808.10	14.47	NP	810.27	15.35	NP	809.39
ERT-7	823.96	15.68	NP	808.28	14.45	NP	809.51	18.00	NP	805.96	15.98	NP	807.98	17.00	NP	806.96	
ERT-8	824.69	16.56	NP	808.13	15.43	NP	809.26	18.96	NP	805.73	16.95	NP	807.74	17.95	NP	806.74	

Notes:
ftbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
Corrected based on assumed LNAPL density of 0.85 g/cm3

WELL I.D.	Top of Riser (ft AMSL)	9/15/2016			11/3/2016			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	8.56	NP	823.42	7.30	NP	824.68	
4009-2	827.78	20.81	NP	806.97	20.05	NP	807.73	
4009-3	823.47	19.43	NP	804.04	17.42	NP	806.05	
4009-4	822.22	15.29	NP	806.93	13.85	NP	808.37	
4009-5	824.36	21.92	NP	802.44	19.40	NP	804.96	
4009-6	827.73	22.71	NP	805.02	21.46	NP	806.27	
4009-7	824.27	21.92	NP	802.35	19.39	NP	804.88	
4009-8	824.52	22.74	NP	801.78	19.84	NP	804.68	
4009-9	825.05	23.19	NP	801.86	21.28	NP	803.77	
4009-10	831.31	29.13	NP	802.18	27.52	NP	803.79	
4009-11	830.06	21.10	NP	808.96	26.83	NP	803.23	
4009-11A	830.80	20.63	NP	810.17	20.40	NP	810.40	
4009-12	823.34	22.51	NP	800.83	19.45	NP	803.89	
4009-12A	823.80	22.95	NP	800.85	19.92	NP	803.88	
4009-13	816.28	15.23	NP	801.05	11.80	NP	804.48	
4009-13A	816.17	14.73	NP	801.44	12.25	NP	803.92	
4009-14	820.71	9.71	NP	811.00	16.68	NP	804.03	
4009-15	826.54	25.79	NP	800.75	22.68	NP	803.86	
4009-16	826.72	26.08	NP	800.64	22.80	NP	803.92	
4009-16A	826.84	26.49	NP	800.35	22.70	NP	804.14	
4009-17	820.53	19.59	NP	800.94	16.24	NP	804.29	
4009-18	834.78	34.24	NP	800.54	30.77	NP	804.01	
4009-19	824.94	24.76	NP	800.18	21.00	NP	803.94	
4009-20	822.90	22.68	NP	800.22	18.84	NP	804.06	
4009-21	825.02	**	24.96	NP	800.06	21.17	NP	803.85
4009-22	817.40	13.85	NP	803.55	13.09	NP	804.31	
4009-23S	824.48	20.12	NP	804.36	18.83	NP	805.65	
4009-23D	824.39	22.10	NP	802.29	19.54	NP	804.85	
4009-24	822.32	18.51	NP	803.81	16.39	NP	805.93	
4009-25S	823.61	17.18	NP	806.43	16.08	NP	807.53	
4009-25D	823.57	17.16	NP	806.41	16.04	NP	807.53	
4009-26	824.31	22.39	NP	801.92	19.62	NP	804.69	
4009-27S	826.19	24.96	NP	801.23	21.97	NP	804.22	
4009-27I	826.03	24.83	NP	801.20	21.87	NP	804.16	
4009-27D	825.87	24.65	NP	801.22	21.70	NP	804.17	
4009-28	821.59	20.79	NP	800.80	17.78	NP	803.81	
4009-29S	825.77	24.71	NP	801.06	21.72	NP	804.05	
4009-29I	825.68	24.79	NP	800.89	21.80	NP	803.88	
4009-29D	825.67	24.79	NP	800.88	21.75	NP	803.92	
4009-30	827.50	**	26.6	NP	800.90	23.32	NP	804.18
WELL 1-1	832.36	NM	NM	NM	NM	NM	NM	
WELL 1-1A	831.13	30.39	NP	800.74	27.50	NP	803.63	
ERT-1S	824.01	15.29	13.86	807.50	NM	NM	NM	
ERT-1I	824.03	16.72	NP	807.31	NM	NM	NM	
ERT-1D	823.88	16.91	NP	806.97	NM	NM	NM	
ERT-2I	824.54	* 17.03	NP	807.51	NM	NM	NM	
ERT-2D	824.44	* 14.74	NP	809.70	NM	NM	NM	
ERT-3S	824.38	Dry	NP	--	NM	NM	NM	
ERT-3I	824.23	17.17	NP	807.06	NM	NM	NM	
ERT-3D	824.20	18.16	NP	806.04	NM	NM	NM	
ERT-4S	823.54	Dry	NP	--	NM	NM	NM	
ERT-4I	823.49	16.89	NP	806.60	NM	NM	NM	
ERT-4D	823.63	17.07	NP	806.56	NM	NM	NM	
ERT-5	824.64	* 16.69	NP	807.95	NM	NM	NM	
ERT-6	824.74	* 17.47	NP	807.27	NM	NM	NM	
ERT-7	823.96	18.98	NP	804.98	NM	NM	NM	
ERT-8	824.69	19.96	NP	804.73	NM	NM	NM	

Notes:

fbgs - feet below ground surface
famsl - feet above mean sea level

* - Elevation data from Conceptual
Site Model (Lockheed Martin, 2012).

** - Elevation data remeasured on
4/1/15 after well repairs

NM - Not measured

NP - No product / LNAPL

Corrected based on assumed

LNAPL density of 0.85 g/cm3

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA	4009-1 2/20/2014	4009-1 5/28/2014	4009-1 8/28/2014	4009-1 12/9/2014	4009-2 2/20/2014	4009-2 5/28/2014	4009-2 8/28/2014	4009-2 12/9/2014	4009-3 2/20/2014	4009-3 5/28/2014	4009-3 8/28/2014	4009-3 12/9/2014	4009-4 2/20/2014	4009-4 5/28/2014	4009-4 8/28/2014	4009-4 12/9/2014	4009-5 2/20/2014	4009-5 5/28/2014	4009-5 8/28/2014
Groundwater Monitoring Zone	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.6 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.3	0.9 J	1.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	0.37 J	2.7	2.3	2.6 J	3.4	6.3	6.6	7.5 J	4.8	1.0 U	0.4 J	1.0 UJ	1.0 U	2.7	3.0 J	1.3 J
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.3	1.1	1.1 J	0.87 J	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	1.8 J	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	15 J	10 U	10 UJ	10 U	10 U	50 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
Acetone	50*	10	4.2 J	12 J	10 U	7.2 J	3.5 J	9.9 J	10 U	10	4.6 J	12 J	10 U	12	3.4 J	8.0 J	10 U	11	50 U	11 J
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	3.2	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	3.6 J	1.0 U	1.0 U	5.0 U	1.7 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	2.4	14	12	9.0 J	6.9	77	65	63 J	48	1.0 U	79	1.3 J	0.45 J	250 D	280	170 J
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10.0 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	13 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	4.6 J	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Tetrachloroethene	5	1.4	0.4 J	1.7 J	0.84 J*	1.0 U	1.0 U	1.0 UJ	0.51 J*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.6 J	1.0 U	1.0 U	5.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	0.46 J	1.0 U	1.0 U	1.0 UJ	0.45 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0	5.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Trichloroethene	5	1.4	1.1	1.7 J	1.5	2.9	2.7	2.3 J	2.5	26	15	12 J	11	1.0 U	1.5	1.0 UJ	1.0 U	21	19	12 J
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	6.9	1.3	5.1 J	6.5	11	13	33 J	16	1.0 U	1.0 U	1.0 UJ	1.0 U	39	41	14 J
Xylenes, Total		2.0 U	2 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	10 U	2.0 UJ
Total VOCs		15.7	8.15	17.6	5.11	34.8	26.3	29.8	21.8	132	105	130	81.1	13.5	84.3	13.5	0.45	327	349	210
Total VOCs (w/o Acteone or Methylene Chloride)		5.70	3.95	5.60	5.11	27.6	22.8	19.9	21.8	122	101	118	81.1	1.50	80.9	5.50	0.45	316	345	199

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-291

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-5 12/9/2014 Intermediate ug/L	4009-6 2/20/2014 Shallow ug/L	4009-6 5/28/2014 Shallow ug/L	4009-6 8/28/2014 Shallow ug/L	4009-6 12/9/2014 Shallow ug/L	4009-7 2/20/2014 Shallow ug/L	4009-7 5/28/2014 Shallow ug/L	4009-7 8/28/2014 Shallow ug/L	4009-7 12/9/2014 Shallow ug/L	4009-8 2/20/2014 Intermediate ug/L	4009-8 5/28/2014 Intermediate ug/L	4009-8 8/28/2014 Intermediate ug/L	4009-8 12/9/2014 Intermediate ug/L	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L	4009-9 12/9/2014 Shallow ug/L	4009-9 4/20/2015 Shallow ug/L	4009-9 7/29/2015 Shallow ug/L
1,1,1-Trichloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	790 D	1000	2900 DJ	1500	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	14	13 J	20 UDJ	17 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	0.5 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 J	0.48 J	1.0 UJ	3.3 U	40	62	72 DJ	58	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.29 J	1.0 UJ	3.3 U	31	120	94 DJ	120	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		13 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	20 U	20 UDJ	130 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	20 U	20 UDJ	50 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	25 U	10 U	10 U	10 UJ	10 U	10 U	1.4 J	10 UJ	33 U	10 U	200 U	200 UDJ	250 U	1.4 J	10 U	10 UJ	10 U	10 U	10.0 U
2-Hexanone	50*	25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	100 U	100 UDJ	250 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	100 U	100 UDJ	250 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
Acetone	50*	25 U	8.5 J	10 U	9.8 J	10 U	5.3 J	7.1 J	14 J	33 U	9.6 J	200 U	200 UDJ	250 U	12	3.3 J	11 J	10 U	7.1 J	10.0 U
Benzene	1	0.62 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.0 U	0.41 J	3.3 U	0.67 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.3 J	1.3	1.0 U	3.4
Bromodichloromethane	50	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	50*	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.3 J	1.0 UJ	3.3 U	2.2	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	0.6 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	170	1.0 U	1.0 U	1.0 UJ	0.24 J	20	46	36 J	38	440 D	310	550 DJ	490	6.3	4.0	13 J	7.0	1.9	15
cis-1,3-Dichloropropene	0.4	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Dichlorodifluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate		25 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	50 U	50 UDJ	250 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U
Methyl Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	9.1 DJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	2.5 U	0.3 J	0.27 J	1.0 UJ	0.23 J	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Styrene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.3	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Toluene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.69 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.1	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	5	14	0.5 J	0.61 J	1.0 UJ	0.37 J	2.1	4.1	3.3 J	2.7 J	19	20 U	20 UDJ	7.1 J	0.5 J	0.66 J	0.67 J	0.80 J	0.52 J	0.59 J
Trichlorofluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	31	1.0 U	1.0 U	1.0 UJ	1.0 U	2.5	3.1	3.1 J	3.0 J	44	140	92 DJ	44	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		5.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	6.7 U	2.0 U	40 U	40 UDJ	50 U	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total VOCs		218	9.29	0.88	9.80	0.84	32.0	62.8	56.8	43.7	1394	1645	3717	2236	20.2	7.96	26.0	9.10	9.52	18.99
Total VOCs (w/o Acteone or Methylene Chloride)		218	0.79	0.88	0.0	0.84	26.7	55.7	42.8	43.7	1384	1645	3717	2236	8.24	4.66	15.0	9.10	2.42	18.99

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-9 11/4/2015	4009-9 3/28/2016	4009-9 6/30/2016	4009-9 9/29/2016	4009-9 11/28/2016	4009-10 2/20/2014	4009-10 5/28/2014	4009-10 8/28/2014	4009-10 12/9/2014	4009-10 4/20/2015	4009-10 7/29/2015	4009-10 11/4/2015	4009-10 3/28/2016	4009-10 6/30/2016	4009-10 9/29/2016	4009-10 11/28/2016	4009-11 2/20/2014	4009-11 5/28/2014	4009-11 8/28/2014
Sampling Date																				
Groundwater Monitoring Zone	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	5	0.38 J	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone (MEK)	50	10.0 U	10.0 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	50*	10.0 U	3.5 J	10 U	10 U	10 U	10	3.2 J	7.5 J	10 U	9.2 J	10 U	10 U	10 U	10 U	10 U	10 U	7.8 J	4.6 J	10 UJ
Benzene	1	2.5	1.0 U	1.0 U	1.0 U	3.7	1.3	0.6 J	0.53 J	2.3 J	26	1.0 U	1.8	0.97 J	1.0 U	1.9	0.65 J	3.4	1.0 U	1.0 UJ
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	21	4.0	21	22	19	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	0.52 J	0.74 J	0.65 J	0.57 J	0.81 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ
Total VOCs		24.4	8.24	22.04	26.3	21.1	12.6	3.73	9.80	26.3	9.20	1.80	0.97	0.0	1.9	0.65	3.4	7.80	4.60	1.90
Total VOCs (w/o Acteone or Methylene Chloride)		24.4	4.74	22.04	26.3	21.1	2.60	0.53	2.30	26.3	0.0	1.80	0.97	0.0	1.9	0.65	3.4	0.0	0.0	1.90

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-11 12/9/2014 Deep ug/L	4009-11 4/20/2015 Deep ug/L	4009-11 7/29/2015 Deep ug/L	4009-11 11/4/2015 Deep ug/L	4009-11 3/28/2016 Deep ug/L	4009-11 6/30/2016 Deep ug/L	4009-11 9/29/2016 Deep ug/L	4009-11 11/28/2016 Deep ug/L	4009-11A 2/20/2014 shallow ug/L	4009-11A 5/28/2014 shallow ug/L	4009-11A 8/28/2014 shallow ug/L	4009-11A 12/9/2014 shallow ug/L	4009-11A 4/20/2015 shallow ug/L	4009-11A 7/29/2015 shallow ug/L	4009-11A 11/4/2015 shallow ug/L	4009-11A 3/28/2016 shallow ug/L	4009-11A 6/30/2016 shallow ug/L	4009-11A 9/29/2016 shallow ug/L	4009-11A 11/28/2016 shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	79	1.0 U	57	87	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.2	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	20	0.76 J	13	21	2.1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	8.7		3.4	5.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	6.7 J	10 U	10 U	4.4 J	10 U	10 U	10 U	9.8 J	4.1 J	10 J	10 U	7.6 J	10 U	10 U	4.6 J	3.5 J	10 U	10 U
Benzene	1	7.8	5.6	8.4	1.0 U	18	1.0 U	1.3	16	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.5	1.5	1.2	1.8	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	12	1.0 U	8.8	15	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0	1.0	1.0	1.0 U	0.79 J	1.0 U	1.0 U	0.82 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	19	1.0 U	14	17	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		8.80	13.3	9.40	140	25.45	98.14	150	18.9	9.80	4.10	10.0	0.0	7.60	0.0	0.0	4.60	3.50	0.0	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		8.80	6.60	9.40	140	21.05	98.14	150	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-12 2/20/2014 Deep ug/L	4009-12 5/28/2014 Deep ug/L	4009-12 8/28/2014 Deep ug/L	4009-12 12/9/2014 Deep ug/L	4009-12 4/20/2015 Deep ug/L	4009-12 7/29/2015 Deep ug/L	4009-12 11/4/2015 Deep ug/L	4009-12 3/28/2016 Deep ug/L	4009-12 6/30/2016 Deep ug/L	4009-12 9/29/2016 Deep ug/L	4009-12 11/28/2016 Deep ug/L	DUP-01 ¹ 11/28/2016 Deep ug/L	4009-12A 2/20/2014 Intermediate ug/L	4009-12A 5/28/2014 Intermediate ug/L	4009-12A 8/28/2014 Intermediate ug/L	4009-12A 12/9/2014 Intermediate ug/L	4009-13 2/20/2014 Deep ug/L	4009-13 5/28/2014 Deep ug/L	4009-13 8/28/2014 Deep ug/L
1,1,1-Trichloroethane	5	32	43	1.0 U	290	1.0 U	180	67	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	34	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	5	4.0	6.5	1.0 U	29	1.8	25	29	3.1	2.9	2.4	2.9	3.1	4.3	7.8	4.3	2.8	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	5	3.4	6.1	1.0 U	30	1.0 U	20	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.8	1.3	0.6 J	0.53 J	1.0 U	1.0 U	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	110 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	44 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone (MEK)	50	10 U	10 U	10 U	220 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	220 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	220 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ
Acetone	50*	5.8 J	3.8 J	7.0 J	220 U	7.1 J	50 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 J	3.9 J	10 U	10 U	8.4 J	3.8 J	10 UJ
Benzene	1	1.0 U	1.5	1.6	22 U	2.7	2.9 J	2.4	6.7	7.5	8.7	9.1	9.5	1.0 U	1.0 U	0.57 J	0.31 J	1.0 U	0.42 J	4.8 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 U	22 U*	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroethane	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.5	7.0	4.1	1.0 U	1.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	13	9.5	8.5	63	4.1	41	18	1.5	1.1	1.0	0.95 J	1.1	15	18	15	14	1.0 U	1.0 U	1.0 UJ
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 U	220 U	2.5 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	0.50 JB	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ
Toluene	5	1.0 U	0.8 J	0.74 J	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.55 J	0.53 J	1.0 U	1.0 U	3.7	2.7 J
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	17	18	1.0 U	64	1.0 U	39	11	0.77 J	0.81 J	0.55 J	0.60 J	0.62 J	19	2.2	1.0	0.30 J	1.0 U	1.0 U	1.0 UJ
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	2	6.1	3.7	0.9 J	30	2.3	51	41	1.7	1.4	1.1	1.6	1.0 U	6.4	1.0 U	1.7	6.5	1.0 U	1.0 U	1.0 UJ
Xylenes, Total		2.0 U	2.0 U	2.0 U	44 U	2.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ
Total VOCs		81.3	93.9	18.7	506	18.0	359	178	14.3	13.7	13.8	15.2	14.3	92.4	41.3	30.7	28.5	8.40	7.92	7.50
Total VOCs (w/o Acteone or Methylene Chloride)		75.5	90.1	11.7	506	10.9	359	178	13.8	13.7	13.8	15.2	14.3	82.5	37.4	30.7	28.5	0.0	4.12	7.50

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-13 12/9/2014	4009-13 4/20/2015	4009-13 7/29/2015	4009-13 11/4/2015	4009-13 3/28/2016	4009-13 6/30/2016	4009-13 9/29/2016	4009-13 11/28/2016	4009-13A 2/20/2014	4009-13A 5/28/2014	4009-13A 8/28/2014	4009-13A 12/9/2014	4009-13A 4/20/2015	4009-13A 7/29/2015	4009-13A 11/4/2015	4009-13A 3/28/2016	4009-13A 6/30/2016	4009-13A 9/29/2016	4009-13A 11/28/2016
Sampling Date																				
Groundwater Monitoring Zone	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	8.9 J	10 U	10 U	10 U	3.5 J	10 U	10 U	8.4 J	10 U	11 J	10 U	6.8 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0	0.96 J	1.7	3.2	3.2	2.4	1.9	1.9	1.0 U	0.58 J	1.0 U	0.96 J	1.0 U	1.0 U	0.44 J	1.2	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	0.55 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		1.55	9.90	1.70	3.20	3.20	5.90	1.90	1.90	8.40	0.58	11.0	0.96	6.80	0.0	0.44	1.20	0.0	0.0	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		1.55	1.00	1.70	3.20	3.20	2.40	1.90	1.90	0.0	0.58	0.0	0.96	0.0	0.0	0.44	1.20	0.0	0.0	0.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-14 2/20/2014 Deep ug/L	4009-14 5/28/2014 Deep ug/L	4009-14 8/28/2014 Deep ug/L	4009-14 12/9/2014 Deep ug/L	4009-14 4/20/2015 Deep ug/L	4009-14 7/29/2015 Deep ug/L	4009-14 11/4/2015 Deep ug/L	4009-14 3/28/2016 Deep ug/L	4009-14 6/30/2016 Deep ug/L	4009-14 9/29/2016 Deep ug/L	4009-14 11/28/2016 Deep ug/L	4009-15 2/20/2014 Deep ug/L	4009-15 5/28/2014 Deep ug/L	4009-15 8/28/2014 Deep ug/L	4009-15 12/9/2014 Deep ug/L	4009-15 4/20/2015 Deep ug/L	4009-15 7/29/2015 Deep ug/L	4009-15 11/4/2015 Deep ug/L	4009-15 3/28/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 J	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	10 U	13 J	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	6.3 J	4.3 J	11	10 U	7.1 J	10 U	3.1 J	10 U	4.1 J	10 U	10 U	7.5 J	5.1 J	7.2 J	10 U	5.8 J	10 U	4.9 J	5.1 J
Benzene	1	1.0 U	1.0 U	1.0 U	0.54 J	1.2	4.0	12	18	14	15	17	1.0 U	1.0 U	0.5 J	0.86 J	1.8	9.1	8.0	9.1
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	0.91 J	1.0	0.92 J	1.0	1.2	1.2	0.78 J	1.0 U	0.55 J	1.0 U	1.0 U	0.56 J	0.61 J	0.72 J	0.77 J	1.0	0.84 J	0.57 J
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		6.30	5.21	12.0	1.46	9.30	5.20	16.3	18.78	18.1	15.6	17.0	8.02	7.49	8.31	1.58	8.37	10.1	13.74	14.77
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	0.91	1.00	1.46	2.20	5.20	13.2	18.78	14.0	15.6	17.0	0.52	2.39	1.11	1.58	2.57	10.1	8.84	9.67

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-291

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-15 6/30/2016 Deep ug/L	4009-15 9/29/2016 Deep ug/L	4009-15 11/28/2016 Deep ug/L	4009-16 2/20/2014 Deep ug/L	4009-16 5/28/2014 Deep ug/L	4009-16 8/28/2014 Deep ug/L	4009-16 12/9/2014 Deep ug/L	4009-16 4/20/2015 Deep ug/L	4009-16 7/29/2015 Deep ug/L	4009-16 11/4/2015 Deep ug/L	4009-16 3/28/2016 Deep ug/L	4009-16 6/30/2016 Deep ug/L	4009-16 9/29/2016 Deep ug/L	4009-16 11/28/2016 Deep ug/L	4009-16A 2/20/2014 Shallow ug/L	4009-16A 5/28/2014 Shallow ug/L	4009-16A 8/28/2014 Shallow ug/L	4009-16A 12/9/2014 Shallow ug/L	4009-16A 4/20/2015 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	10 U	10 U	10 U	1.6 J	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Acetone	50*	9.1 J	4.3 J	8.4 J	5.9 J	3.5 J	7.1 J	10 U	6.0 J	10 U	10.0 U	10.0 U	4.5 J	10.0 U	10.0 U	12	4.0 J	7.6 J	10 U	6.4 J
Benzene	1	8.5	7.8	9.0	1.0 U	1.0 U	8.2	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	8.4	8.0	1.8	1.0 U	1.9	7.2	8.0	5.7
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U
Toluene	5	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		17.6	12.7	17.4	5.90	3.50	16.8	0.39	6.00	0.0	0.0	0.0	12.9	8.69	1.80	13.6	5.90	14.8	8.00	12.1
Total VOCs (w/o Acteone or Methylene Chloride)		8.50	8.41	9.00	0.0	0.0	9.70	0.39	0.0	0.0	0.0	0.0	8.4	8.69	1.80	1.60	1.90	7.20	8.00	5.70

Notes
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J - Compound detected below the reporting limit or
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B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
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Sample ID	NYSDEC GA	4009-16A 7/29/2015	4009-16A 11/4/2015	4009-16A 3/28/2016	4009-16A 6/30/2016	4009-16A 9/29/2016	4009-16A 11/28/2016	4009-18 5/6/2015	4009-18 7/29/2015	4009-18 11/4/2015	4009-18 3/28/2016	4009-18 6/30/2016	4009-18 9/29/2016	4009-18 11/28/2016	4009-19 4/20/2015	4009-19 7/29/2015	4009-19 11/4/2015	4009-19 3/28/2016	4009-19 6/30/2016	4009-19 9/29/2016
Sampling Date	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Groundwater Monitoring Zone	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Units																				
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.86 J	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	3.3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	10 U	10 U	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8.5 J	10 U	10 U	10 U	10 U
Benzene	1	11	3.0	4.2	0.49 J	1.4	36	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	0.47 J	1.7	2.7	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		11.0	3.00	4.20	0.49	1.40	36.0	14.16	1.00	0.0	0.99	0.83	0.47	1.70	11.2	1.00	0.0	0.0	0.0	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		11.0	3.00	4.20	0.49	1.40	36.0	4.16	1.00	0.0	0.41	0.83	0.47	1.70	2.70	1.00	0.0	0.0	0.0	0.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-19 11/28/2016 Deep ug/L	4009-21 4/20/2015 Deep ug/L	4009-21 7/29/2015 Deep ug/L	4009-21 11/4/2015 Deep ug/L	4009-21 3/28/2016 Deep ug/L	4009-21 6/30/2016 Deep ug/L	4009-21 9/29/2016 Deep ug/L	4009-21 11/28/2016 Deep ug/L	4009-22 12/3/2013 Deep ug/L	4009-22 2/20/2014 Deep ug/L	4009-22 5/28/2014 Deep ug/L	4009-22 8/28/2014 Deep ug/L	4009-22 12/9/2014 Deep ug/L	4009-22 4/20/2015 Deep ug/L	4009-22 7/29/2015 Deep ug/L	4009-22 11/4/2015 Deep ug/L	4009-22 3/28/2016 Deep ug/L	4009-22 6/30/2016 Deep ug/L	4009-22 9/29/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	7.9 J	10 U	10 U	10 U	10 U	10 U	10 U	3.1 J	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	10.0 U	4.0 J	10.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	11	31	21	21	19	0.7 J	0.7 J	0.92 J	0.98 J	0.82 J	1.2	1.1	1.2	1.6	1.3	1.3
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	0.6 J	1.1	0.83 J	0.64 J	0.93 J	1.1	0.81 J	0.92 J	1.0 U	0.90 J
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.0	7.90	0.0	11.0	31.64	21.0	21.0	19.0	4.44	13.2	2.02	12.8	1.46	8.63	2.20	2.01	2.98	5.30	2.20
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	0.0	0.0	11.0	31.0	21.0	21.0	19.0	1.34	1.24	2.02	1.81	1.46	2.13	2.20	2.01	2.52	1.30	2.20

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-22 11/28/2016 Deep ug/L	4009-23S 2/20/2014 Shallow ug/L	4009-23S 5/28/2014 Shallow ug/L	4009-23S 8/28/2014 Shallow ug/L	4009-23S 12/9/2014 Shallow ug/L	4009-23D 2/20/2014 Intermediate ug/L	4009-23D 5/28/2014 Intermediate ug/L	4009-23D 8/28/2014 Intermediate ug/L	4009-23D 12/9/2014 Intermediate ug/L	4009-24 2/20/2014 Shallow ug/L	4009-24 5/28/2014 Shallow ug/L	4009-24 8/28/2014 Shallow ug/L	4009-24 12/9/2014 Shallow ug/L	4009-25S 2/20/2014 Shallow ug/L	4009-25S 5/28/2014 Shallow ug/L	4009-25S 8/28/2014 Shallow ug/L	4009-25S 12/9/2014 Shallow ug/L	4009-25D 2/20/2014 Shallow ug/L	4009-25D 5/28/2014 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	130 D	720	140 DJ	570	1.0 U	1.0 U	1.0 UJ	1.0 U	2600 D	3300	9900 DJ	3800	1900 D	3300
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	24	18	12 J	8.2	1.0 U	1.0 U	1.0 UJ	1.0 U	31	40 U	40 UDJ	32 J	32	22 J
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,1-Dichloroethane	5	1.0 U	3.2	4.4	2.5 J	2.2	250 D	420	220 DJ	280	1.0 U	1.0 U	1.0 UJ	1.0 U	87	140	120 DJ	99	74	120
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	31	78	23 J	40	1.0 U	1.0 U	1.0 UJ	1.0 U	110 D	410	650 DJ	280	120 D	330
1,2,3-Trimethylbenzene		1.0 U	1.8	0.38 J	0.44 J	5.0 U	10 UD	10 U	1.0 UJ	33 U	1.0 U	1.0 U	1.0 UJ	5.0 U	40 UD	40 U	40 UDJ	250 U	20 UD	20 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,2,4-Trimethylbenzne	5	1.0 U	8.6	2.0	4.2 J	1.0 U	10 UD	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	10 U	1.0 UJ	13 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	40 U	40 UDJ	100 U	1.0 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.4 J	10 U	0.39 J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	4.4	1.2	4.0 J	1.0 U	10 UD	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 UJ	10 U	10 U	100 U	10 UJ	67 U	1.4 J	10 U	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	10 U	200 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	50 U	5.0 UJ	67 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	50 U	5.0 UJ	67 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U
Acetone	50*	10 U	6.1 J	10 U	7.2 J	10 U	8.3 J	100 U	9.8 J	67 U	9.3 J	4.2 J	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	6.0 J	200 U
Benzene	1	1.1	1.8	1.8	1.8 J	1.1	1.0 U	10 U	0.62 J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U*	1.0 U	20 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.2 J	0.64 J	11	11	8.2 J	2.8 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	0.44 J	0.48 J	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
cis-1,2-Dichloroethene	5	1.0 U	2.2	2.2	1.9 J	2.9	580 D	450	460 DJ	330	1.0 U	1.0 U	2.2 J	1.0 U	180 D	210	490 DJ	260	76	110
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Cyclohexane		1.0 U	0.8 J	0.61 J	0.85 J	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Ethylbenzene	5	1.0 U	1.0 U	0.83 J	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Isopropylbenzne (Cumene)	5	1.0 U	5.3	3.6	5.8 J	2.2	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	25 U	2.5 UJ	67 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	100 U	100 UDJ	500 U	2.5 U	50 U
Methyl Cyclohexane		1.0 U	0.7 J	0.5 J	1.0 UJ	1.0 U	0.3 J	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	10 U	1.0 UJ	6.7 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Toluene	5	1.3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
trans-1,2-Dichloroethene	5	1.0 U	2.4	2.8	1.8 J	1.8	2.3	10 U	1.3 J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	2.9	40 U	40 UDJ	50 U	2.0	20 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Trichloroethene	5	1.0 U	1.6	1.6	1.3 J	1.8	8.7	8.3 J	6.1 J	4.9 J	1.0 U	1.0 U	1.0 UJ	1.0 U	32	40 U	2900 DJ	230	16	10 J
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U
Vinyl chloride	2	1.0 U	0.9 J	1.1	1.1 J	0.80 J	630 D	440	530 DJ	340	1.0 U	1.0 U	1.0 UJ	1.0 U	3.7	40 U	40 UDJ	29 J	1.4	20 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	20 U	2.0 UJ	13 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	80 U	80 UDJ	100 U	2.0 U	40 U
Total VOCs		2.40	39.8	23.1	34.1	13.4	1676	2145	1411	1576	10.7	4.20	2.64	0.48	3047	4060	14060	4730	2227	3892
Total VOCs (w/o Acteone or Methylene Chloride)		2.40	33.7	23.1	26.9	13.4	1667	2145	1402	1576	1.40	0.0	2.64	0.48	3047	4060	14060	4730	2221	3892

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-291

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-25D 8/28/2014 Shallow ug/L	4009-25D 12/9/2014 Shallow ug/L	4009-26 2/20/2014 Intermediate ug/L	4009-26 5/28/2014 Intermediate ug/L	4009-26 8/28/2014 Intermediate ug/L	4009-26 12/9/2014 Intermediate ug/L	4009-27S 2/20/2014 Intermediate ug/L	4009-27S 5/28/2014 Intermediate ug/L	4009-27S 8/28/2014 Intermediate ug/L	4009-27S 12/9/2014 Intermediate ug/L	4009-27S 4/20/2015 Intermediate ug/L	4009-27S 7/29/2015 Intermediate ug/L	4009-27S 11/4/2015 Intermediate ug/L	4009-27S 3/28/2016 Intermediate ug/L	4009-27S 6/30/2016 Intermediate ug/L	4009-27S 9/29/2016 Intermediate ug/L	4009-27S 11/28/2016 Intermediate ug/L	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	820 DJ	1900	98	370	150 DJ	92	54	61	65 J	49	61	62	61	58	54	54	61	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		19 DJ	25 J	7.7	13	6.0 DJ	7.7	2.8	3.4	2.3 J	2.6	3.3	3.3	3.5	2.9	2.7	2.4	2.6	1.0 U	0.37 J
1,1,2-Trichloroethane	1	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	53 DJ	50	27	39	16 DJ	14	1.9	2.2	2.2 J	1.9 J	2.6	2.7	2.4	2.4	2.1	2.0	2.5	1.0 U	1.0 U
1,1-Dichloroethene	5	57 DJ	190	6.0	46	9.9 DJ	7.8	5.7	8.9	5.6 J	4.6	6.2	10	7.0	4.5	5.0	4.9	8.8	1.0 U	1.0 U
1,2,3-Trimethylbenzene		20 UDJ	170 U	2.0 UD	8.0 U	2.0 UDJ	10 U	1.0 U	1.0 U	1.0 UJ	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2	1.0 U	1.0 U	1.0 UJ	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	20 UDJ	67 U	1.0 U	8.0 U	2.0 UDJ	4.0 U	1.0 U	1.0 U	1.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	0.9 J	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	200 UDJ	330 U	10 U	80 U	20 UDJ	20 U	10 U	10 U	10 UJ	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	200 UDJ	330 U	10	80 U	20 UDJ	20 U	9.9 J	3.8 J	8.1 UJ	20 U	8.1 J	10 U	10 U	10 U	10 U	10 U	10 U	5.8 J	10 U
Benzene	1	20 UDJ	33 U	0.81 J	8.0 U	2.0 UDJ	0.55 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	20 UDJ	33 U*	1.0 U	8.0 U	2.0 UDJ	2.0 U*	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	100 DJ	260	120 D	190	96 DJ	85	18	20	19 J	19	21	24	21	22	20	20	23	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	20 UDJ	33 U	3.9	5.8 J	5.0 DJ	2.8	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		50 UDJ	330 U	2.5 U	20 U	5.0 UDJ	20 U	2.5 U	2.5 U	2.5 UJ	20 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	20 UDJ	33 U	1.0 U	8.4	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	20 UDJ	33 U	1.1	8.0 U	0.97 DJ	0.89 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	21 DJ	100	45	71	47 DJ	49	25	28	24 J	22	25	28	25	24	23	22	24	1.4	1.1
Trichlorofluoromethane	5	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	20 UDJ	32 J	12	21	13 DJ	9.4	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		40 UDJ	67 U	2.0 U	16.0 U	4.0 UDJ	4.0 U	2.0 U	2.0 U	2.0 UJ	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		1070	2557	332	764	344	269	117	128	126	99.1	127.2	130	120	114	108	105	122	7.20	1.47
Total VOCs (w/o Acteone or Methylene Chloride)		1070	2557	322	756	344	269	107	124	118	99.1	119.1	130	120	114	108	105	122	1.40	1.47

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-27I 8/28/2014	4009-27I 12/9/2014	4009-27I 4/20/2015	4009-27I 7/29/2015	4009-27I 11/4/2015	4009-27I 3/28/2016	4009-27I 6/30/2016	4009-27I 9/29/2016	4009-27I 11/28/2016	4009-27D 2/20/2014	4009-27D 5/28/2014	4009-27D 8/28/2014	4009-27D 12/9/2014	4009-27D 4/20/2015	4009-27D 7/29/2015	4009-27D 11/4/2015	4009-27D 3/28/2016	4009-27D 6/30/2016	4009-27D 9/29/2016
Sampling Date	Standard ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L	Deep ug/L
Groundwater Monitoring Zone																				
Units																				
1,1,1-Trichloroethane	5	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 UJ	1.0 U	1.0 U	0.31 J	1.0 U	0.39 J	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	7.9 J	10 U	9.3 J	10 U	10 U	10 U	10 U	10 U	10 U	9.8 J	4.8 J	8.0 J	10 U	7.1 J	10.0 U	10.0 U	10.0 U	10 U	10 U
Benzene	1	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	0.95 J	4.6	1.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 UJ	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.60 J	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 UJ	0.77 J	0.87 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.4	0.84 J	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		11.1	1.97	10.17	2.21	0.61	1.79	3.49	4.60	1.50	9.80	4.80	8.48	0.0	7.10	0.0	0.0	0.60	0.0	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		3.21	1.97	0.87	2.21	0.61	1.79	3.49	4.60	1.50	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27D 11/28/2016 Deep ug/L	4009-28 2/20/2014 Deep ug/L	4009-28 5/28/2014 Deep ug/L	4009-28 8/28/2014 Deep ug/L	4009-28 12/9/2014 Deep ug/L	4009-28 4/20/2015 Deep ug/L	4009-28 7/29/2015 Deep ug/L	4009-28 11/4/2015 Deep ug/L	4009-28 3/28/2016 Deep ug/L	4009-28 6/30/2016 Deep ug/L	4009-28 9/29/2016 Deep ug/L	4009-28 11/28/2016 Deep ug/L	4009-29S 2/20/2014 Intermediate ug/L	4009-29S 5/28/2014 Intermediate ug/L	4009-29S 8/28/2014 Intermediate ug/L	4009-29S 12/9/2014 Intermediate ug/L	4009-29S 4/20/2015 Intermediate ug/L	4009-29S 7/29/2015 Intermediate ug/L	4009-29S 11/4/2015 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.3	2.7	1.0 U	3.0	2.9	2.9	2.3	1.9	2.5	2.5	2.5	710 D	650	1000 DJ	480	830	850	760
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	10 U	7.1 DJ	17 U	8.7 J	7.3 J	20 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	130 D	35	46 D	29	38	55	49
1,1-Dichloroethene	5	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	92	89	62 D	33	37	130	84
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	83 U	20 U	20 U	20 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	33 U	20 U	20 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	100 U	100 UD	170 U	200 U	200 U	200 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U
Acetone	50*	10 U	7.9 J	3.7 J	6.8 J	10 U	6.1 J	10 U	10.0 U	10.0 U	10 U	10 U	10 U	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	10 U	10 UD	17 U	20 U	20 U	20 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	260 D	340	410 D	270	320	480	310
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	10 U	10 UD	17 U	20 U	20 U	20 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	25 U	25 UD	170 U	20 U	20 U	50 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	5.6 J*	20 U	20 U	20 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	10 U	10 UD	17 U	20 U	20 U	20 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	300 D	10 U	27 D	3.5 J	20 U	20 U	20 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	43	15	42 D	16 J	24	65	82
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	20 UD	33 U	40 U	40 U	40 U
Total VOCs		0.0	9.20	6.71	6.80	3.53	9.22	2.90	0.0	2.90	2.50	2.50	2.50	1560	1129	1594	837	1257.7	1587	1285
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	1.30	3.01	0.0	3.53	3.12	2.90	0.0	2.90	2.50	2.50	2.50	1554	1129	1594	832	1257.7	1587	1285

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-29S 3/28/2016	4009-29S 6/30/2016	4009-29S 9/29/2016	4009-29S 11/28/2016	4009-29I 2/20/2014	4009-29I 5/28/2014	4009-29I 8/28/2014	4009-29I 12/9/2014	4009-29I 4/20/2015	4009-29I 7/29/2015	4009-29I 11/4/2015	4009-29I 3/28/2016	4009-29I 6/30/2016	4009-29I 9/29/2016	4009-29I 11/28/2016	DUP_02 ² 11/28/2016	4009-29D 2/20/2014	4009-29D 5/28/2014	4009-29D 8/28/2014
Sampling Date	Standard ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Intermediate ug/L	Deep ug/L	Deep ug/L	Deep ug/L
Groundwater Monitoring Zone																				
Units																				
1,1,1-Trichloroethane	5	800 D	460	430	23	1700 D	1600	130 DJ	1100	1500	1700	1400	1400 D	1200	1.0 U	2.0 U	2.0 U	1.0 U	80	1200 DJ
1,1,2,2-Tetrachloroethane	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		7.1	20 U	1.0 U	2.0 U	21	25 U	2.0 UDJ	15 J	15 J	40 U	40 U	14	15 J	1.0 U	2.0 U	2.0 U	1.0 U	1.1	14
1,1,2-Trichloroethane	1	0.49 J	20 U	1.0 U	2.0 U	0.86 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.57 J	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.65 J
1,1-Dichloroethane	5	58	69	52	50	83	96	21 DJ	82	100	100	90	69	71	4.4	3.9	4.0	1.1	16	150 DJ
1,1-Dichloroethene	5	45	33	27	3.2	150 D	230	6.4 DJ	92	85	240	200	77	93	1.9	2.0 U	2.0 U	1.0 U	12	130 DJ
1,2,3-Trimethylbenzene		20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	200 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	80 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	20 U	20 U	1.0 U	2.0 U	0.41 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.72 J
1,2-Dichloropropane	1	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	200 U	200 U	10 U	20 U	10 U	250 U	20 UDJ	400 U	400 U	400 U	400 U	10 U	250 U	10 U	20 U	20 U	10 U	10 U	10 U
2-Hexanone	50*	100 U	100 U	5.0 U	10 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U	130 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		100 U	100 U	5.0 U	10 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U	130 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Acetone	50*	200 U	200 U	10 U	8.0 J	11	250 U	12 DJ	400 U	400 U	400 U	400 U	10 U	250 U	5.6 J	6.1 J	20 U	6.9 J	10 U	10 U
Benzene	1	20 U	20 U	1.0 U	98	0.59 J	25 U	41 DJ	40 U	40 U	40 U	40 U	0.48 J	25 U	75	120	110	1.0 U	1.0 U	0.72 J
Bromodichloromethane	50	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	0.35 J	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	20 U	20 U	1.0 U	2.0 U	1.6	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.5	20 U	1.0 U	2.0 U	5.0	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	2.7	25 U	51	29	27	1.0 U	1.4	8.8 DJ
Chloroform	7	0.49 J	20 U	1.0 U	2.0 U	1.1	25 U	1.1 DJ	40 U	40 U	40 U	40 U	0.77 J	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	0.83 J
Chloromethane		20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	390 D	190	200	59	400 D	400	53 DJ	330	380	530	410	420 D	340	45	41	41	1.4	25	400 DJ
cis-1,3-Dichloropropene	0.4	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.5	20 U	1.0 U	2.0 U	1.2	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.9	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.5
Ethylbenzene	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		50 U	50 U	2.5 U	5.0 U	2.5 U	63 U	5.0 UDJ	400 U	100 U	100 U	100 U	2.5 U	63 U	2.5 U	5.0 U	5.0 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.58 J	20 U	1.0 U	2.0 U	1.0 U	25 U	1.2 DJ	14 J*	18 J	40 U	40 U	0.60 J	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.42 J	20 U	1.0 U	2.0 U	2.1	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.8	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	20 U	20 U	1.0 U	1.5	1.0 U	25 U	3.7 DJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.2	1.7 J	1.7 J	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	20 U	20 U	1.0 U	2.0 U	3.4	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.8
trans-1,3-Dichloropropene	0.4	20 U	20 U	1.0 U	2.0 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	9.2	20 U	1.0 U	2.0 U	450 D	460	34 DJ	360	410	550	480	450 D	370	3.5	2.0	2.1	1.8	17	400 DJ
Trichlorofluoromethane	5	20 U	20 U	1.0 U	2.0 U	0.94 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.92 J	25 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	120 D	78	95	2.5	85	85	6.6 DJ	78	92	140	110	94	85	2.0	2.0	2.0 U	4.7	12	170 DJ
Xylenes, Total		40 U	40 U	2.0 U	4.0 U	2.0 U	50 U	4.0 UDJ	80 U	80 U	80 U	80 U	2.0 U	50 U	2.0 U	4.0 U	4.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		1434	830	804	245	2917	2871	310	2071	2600	3260	2690	2536	2174	191	206	186	15.9	165	2480
Total VOCs (w/o Acteone or Methylene Chloride)		1434	830	804	237	2906	2871	297	2057	2582	3260	2690	2536	2174	185	200	186	9.00	165	2480

Notes
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 - Concentration exceeds NYSDEC Class GA Standard
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¹-This is a duplicate sample from 4009-12
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Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29D 12/9/2014 Deep ug/L	4009-29D 4/20/2015 Deep ug/L	4009-29D 7/29/2015 Deep ug/L	4009-29D 11/4/2015 Deep ug/L	4009-29D 3/28/2016 Deep ug/L	4009-29D 6/30/2016 Deep ug/L	4009-29D 9/29/2016 Deep ug/L	4009-29D 11/28/2016 Deep ug/L	4009-30 4/20/2015 Deep ug/L	4009-30 7/29/2015 Deep ug/L	4009-30 11/4/2015 Deep ug/L	4009-30 3/28/2016 Deep ug/L	4009-30 6/30/2016 Deep ug/L	4009-30 9/29/2016 Deep ug/L	4009-30 11/28/2016 Deep ug/L	4009-30A 4/20/2015 Shallow ug/L	4009-30A 7/29/2015 Shallow ug/L	4009-30A 11/4/2015 Shallow ug/L	4009-30A 3/28/2016 Shallow ug/L
1,1,1-Trichloroethane	5	170	290	30	14	23	16	14	21	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.9 J	3.6 J	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	27	51	12	4.2	5.5	4.0	3.7	6.3	0.86 J	0.82 J	0.52 J	0.91 J	0.65 J	0.52 J	0.93 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	27	29	5.7	2.0	2.0	1.3	1.1	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		29 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	11 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50*	5.7 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.7 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.0 J	1.0 U	1.0 U	1.0 U	7.3 J	4.9 J	1.0 U	6.9 J	1.0 U	1.0 U	1.0 U
Benzene	1	5.7 U	5.0 U	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	0.44 J	0.56 J	1.0	0.75 J	2.5	0.60 J	2.2
Bromodichloromethane	50	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	5.7 U	2.5 J	1.0 U	1.2	1.2	1.5	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	150	210	37	8.0	9.9	5.7	5.4	9.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		5.7 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	2.0 J*	5.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	26	20	0.78 J	0.94 J	3.3	2.0	1.8	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	34	55	7.8	7.2	8.3	7.5	6.5	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		11 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		439	674	94.0	37.54	54.08	38.0	34.5	56.3	8.84	0.82	0.96	1.40	8.39	5.98	1.93	7.65	2.50	0.60	2.20
Total VOCs (w/o Acteone or Methylene Chloride)		437	674	94.0	37.54	53.60	38.0	34.5	56.3	1.84	0.82	0.96	0.91	1.09	1.08	1.93	0.75	2.50	0.60	2.20

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-30A 6/30/2016 Shallow ug/L	4009-30A 9/29/2016 Shallow ug/L	4009-30A 11/28/2016 Shallow ug/L	Well 1-1 4/20/2015 Deep ug/L	Well 1-1 7/29/2015 Deep ug/L	Well 1-1 11/4/2015 Deep ug/L	Well 1-1 3/28/2016 Deep ug/L	Well 1-1 6/30/2016 Deep ug/L	Well 1-1 9/29/2016 Deep ug/L	Well 1-1 11/28/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	220	240	350	250	210	310	220
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	4.1	5.0 U	5.0 U	4.3 J	4.3 J	6.3	5.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5	1.0 U	0.51 J	0.63 J	15	18	28	22	14	22	18
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	10	30	41	16	5.0 U	20	31
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	40 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	20 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	20 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	50*	10 U	10 U	10 U	40 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	1	0.43 J	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	39	66	82	68	52	77	62
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 U	13 U	13 U	13 U	13 U	13 U	13 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.9 B	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	41	64	81	59	56	69	66
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	8.0 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs		0.43	0.51	0.63	329	418	582	425	336	504	397
Total VOCs (w/o Acteone or Methylene Chloride)		0.43	0.51	0.63	329	418	582	419	336	504	397

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-29I

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 7/22/2014	Well 1-2A Influent 7/30/2014	Well 1-2A Influent 8/18/2014	Well 1-2A Influent 8/28/2014	Well 1-2A Influent 9/29/2014	Well 1-2A Influent 9/30/2014	Well 1-2A Influent 10/21/2014	Well 1-2A Influent 10/28/2014	Well 1-2A Influent 11/11/2014	Well 1-2A Influent 11/24/2014	Well 1-2A Influent 12/9/2014	Well 1-2A Influent 12/18/2014	Well 1-2A Influent 1/20/2015	Well 1-2A Influent 1/29/2015	Well 1-2A Influent 2/25/2015**	Well 1-2A Influent 2/25/2015**	Well 1-2A Influent 3/12/2015**	Well 1-2A Influent 3/19/2015**	Well 1-2A Influent 4/9/2015
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	NS	NS	NS	0.5 U
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U *	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U *	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U *	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	NS	NS	NS	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0					0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 4/20/2015	Well 1-2A Influent 5/6/2015	Well 1-2A Influent 5/12/2015	Well 1-2A Influent 6/9/2015	Well 1-2A Influent 6/25/2015	Well 1-2A Influent 7/29/2015	Well 1-2A Influent 8/11/2015	Well 1-2A Influent 8/28/2015	Well 1-2A Influent 9/15/2015	Well 1-2A Influent 9/24/2015	Well 1-2A Influent 10/12/2015	Well 1-2A Influent 11/4/2015	Well 1-2A Influent 11/10/2015	Well 1-2A Influent 12/21/2015	Well 1-2A Influent 1/19/2016	Well 1-2A Influent 1/27/2016	Well 1-2A Influent 2/16/2016	Well 1-2A Influent 2/26/2016	Well 1-2A Influent 3/22/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
Benzene	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromoform	50*	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromomethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Carbon disulfide		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Carbon tetrachloride	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methyl Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Styrene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-2A Influent 3/28/2016	Well 1-2A Influent 4/20/2016	Well 1-2A Influent 4/22/2016	Well 1-2A Influent 5/20/2016	Well 1-2A Influent 5/23/2016	Well 1-2A Influent 6/21/2016	Well 1-2A Influent 6/22/2016	Well 1-2A Influent 7/20/2016	Well 1-2A Influent 7/28/2016	Well 1-2A Influent 8/16/2016	Well 1-2A Influent 8/18/2016	Well 1-2A Influent 9/6/2016	Well 1-2A Influent 9/15/2016	Well 1-2A Influent 10/18/2016	Well 1-2A Influent 10/31/2016	Well 1-2A Influent 11/8/2016	Well 1-2A Influent 11/28/2016	Well 1-2A Influent 12/16/2016	Well 1-2A Influent 12/29/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropene	0.04	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
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Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-3 Influent 7/22/2014	Well 1-3 Influent 7/30/2014	Well 1-3 Influent 8/18/2014	Well 1-3 Influent 8/28/2014	Well 1-3 Influent 9/29/2014	Well 1-3 Influent 9/30/2014	Well 1-3 Influent 10/21/2014	Well 1-3 Influent 10/28/2014	Well 1-3 Influent 11/11/2014	Well 1-3 Influent 11/24/2014	Well 1-3 Influent 12/9/2014	Well 1-3 Influent 12/18/2014	Well 1-3 Influent 1/20/2015	Well 1-3 Influent 1/29/2015	Well 1-3 Influent 2/25/2015	Well 1-3 Influent 2/25/2015	Well 1-3 Influent 3/12/2015	Well 1-3 Influent 3/19/2015	Well 1-3 Influent 4/9/2015
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U*	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	NA	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U*	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U*	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	1 U	1.0 U	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-3 Influent 4/20/2015	Well 1-3 Influent 5/6/2015	Well 1-3 Influent 5/12/2015	Well 1-3 Influent 6/9/2015	Well 1-3 Influent 6/25/2015	Well 1-3 Influent 7/29/2015	Well 1-3 Influent 8/11/2015	Well 1-3 Influent 8/28/2015	Well 1-3 Influent 9/15/2015	Well 1-3 Influent 9/24/2015	Well 1-3 Influent 10/12/2015	Well 1-3 Influent 11/4/2015	Well 1-3 Influent 11/10/2015	Well 1-3 Influent 12/21/2015	Well 1-3 Influent 1/19/2016	Well 1-3 Influent 1/27/2016	Well 1-3 Influent 2/16/2016	Well 1-3 Influent 2/26/2016	Well 1-3 Influent 3/22/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
Benzene	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromoform	50*	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromomethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon disulfide		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon tetrachloride	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Styrene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

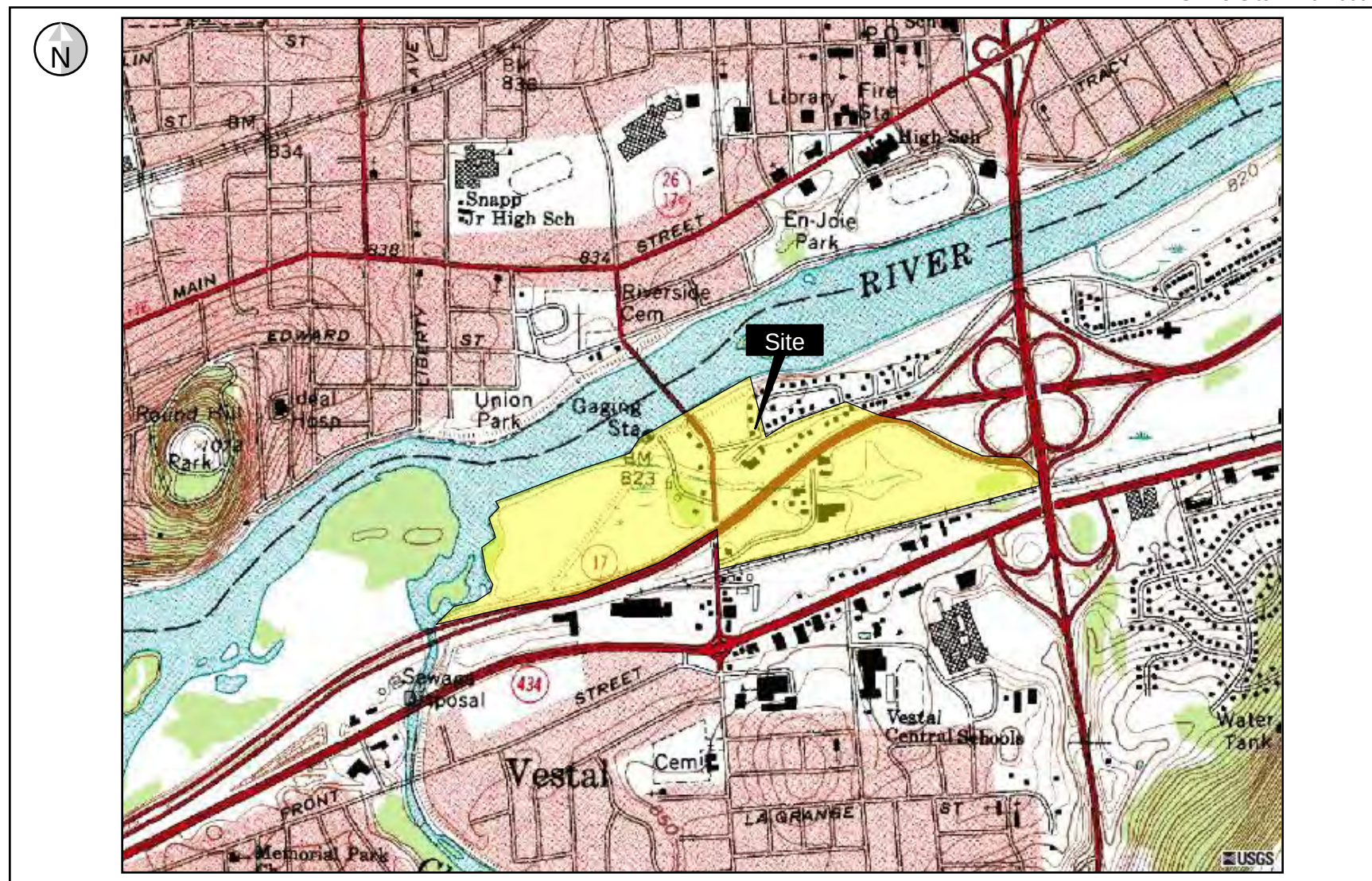
Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-3 Influent 3/28/2016	Well 1-3 Influent 4/20/2016	Well 1-3 Influent 4/22/2016	Well 1-3 Influent 5/20/2016	Well 1-3 Influent 5/23/2016	Well 1-3 Influent 6/21/2016	Well 1-3 Influent 6/22/2016	Well 1-3 Influent 7/20/2016	Well 1-3 Influent 7/28/2016	Well 1-3 Influent 8/16/2016	Well 1-3 Influent 8/18/2016	Well 1-3 Influent 9/6/2016	Well 1-3 Influent 9/15/2016	Well 1-3 Influent 10/18/2016	Well 1-3 Influent 10/31/2016	Well 1-3 Influent 11/8/2016	Well 1-3 Influent 11/28/2016	Well 1-3 Influent 12/16/2016	Well 1-3 Influent 12/29/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

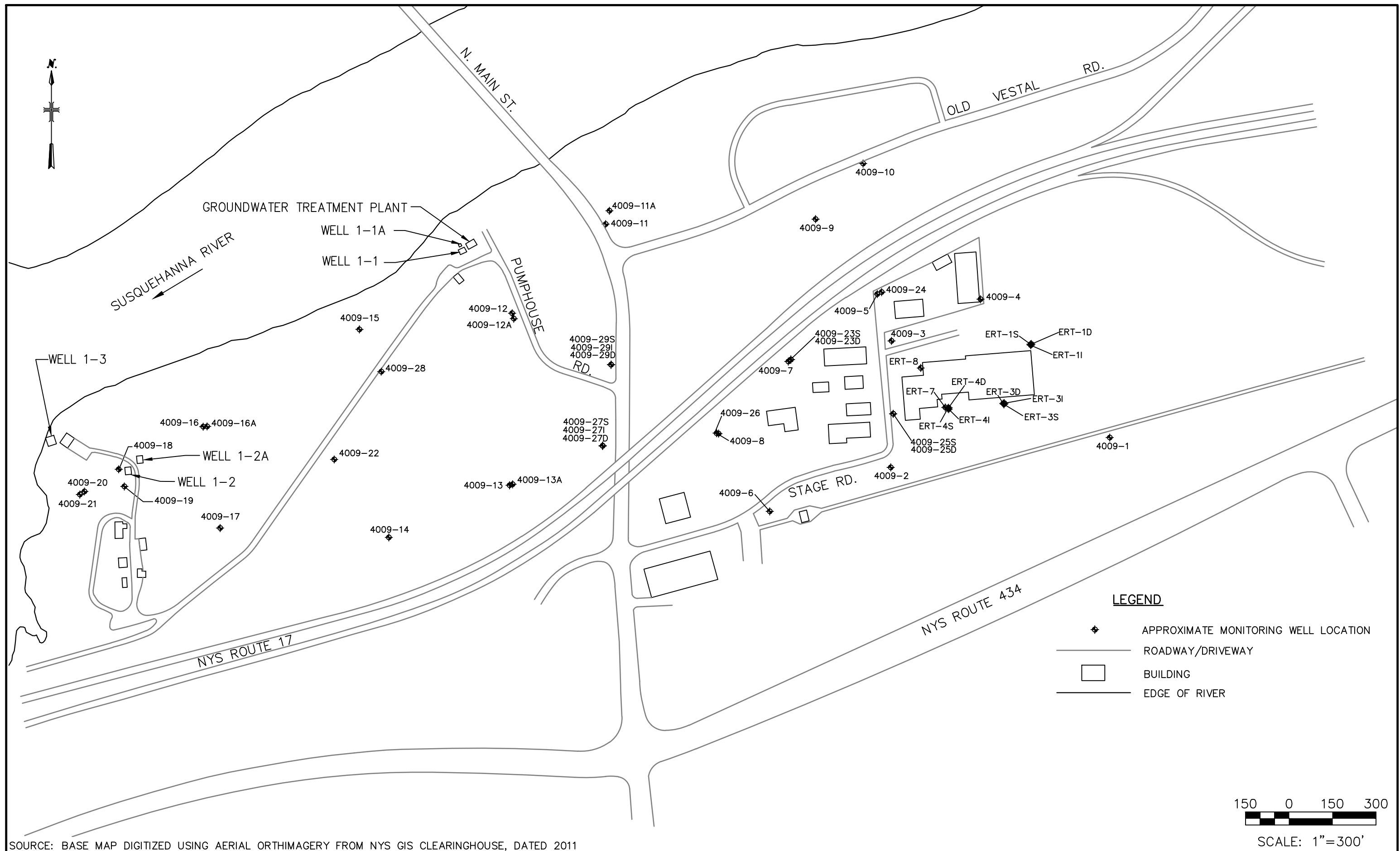
Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

FIGURES





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



SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011

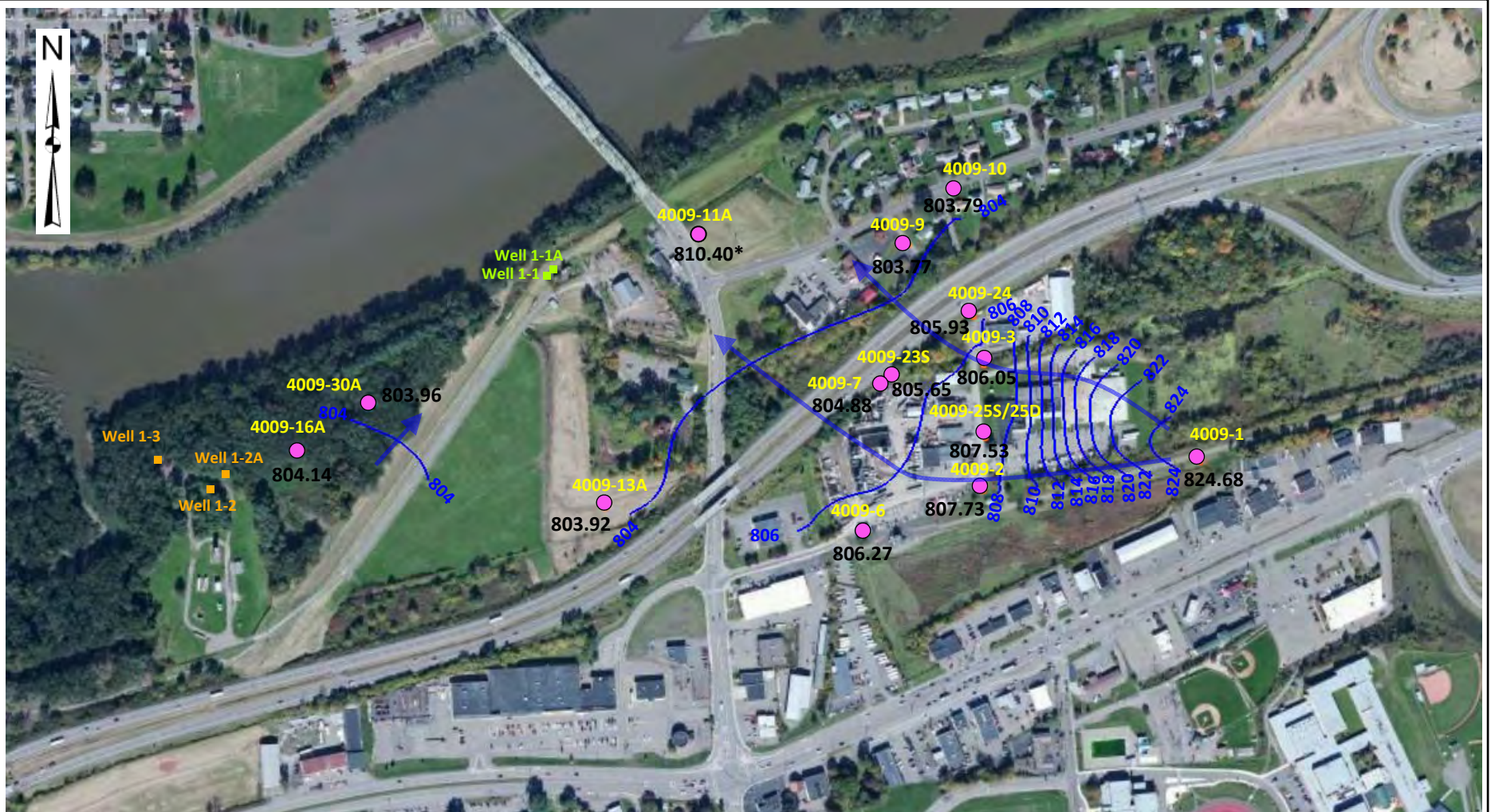


NYSDEC STANDBY CONTRACT NO. D007618-7
NYSDEC SITE NO. 7-04-009
VESTAL WATER SUPPLY
VESTAL, NEW YORK

MONITORING WELL LOCATION MAP

SCALE: AS SHOWN

NOVEMBER 2016
FIGURE 2-1



LEGEND

- Well 1-1A
■ EXTRACTION WELL & IDENTIFIER
- 4009-16A
● MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 804.12
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- Well 1-3
■ WATER SUPPLY WELL & IDENTIFIER

* Anomalous Reading
not used for Contouring

0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Shallow Potentiometric Surface
with Well 1-1A Inactive
(November 3, 2016)

ARCADIS | 2-2

Figure



LEGEND

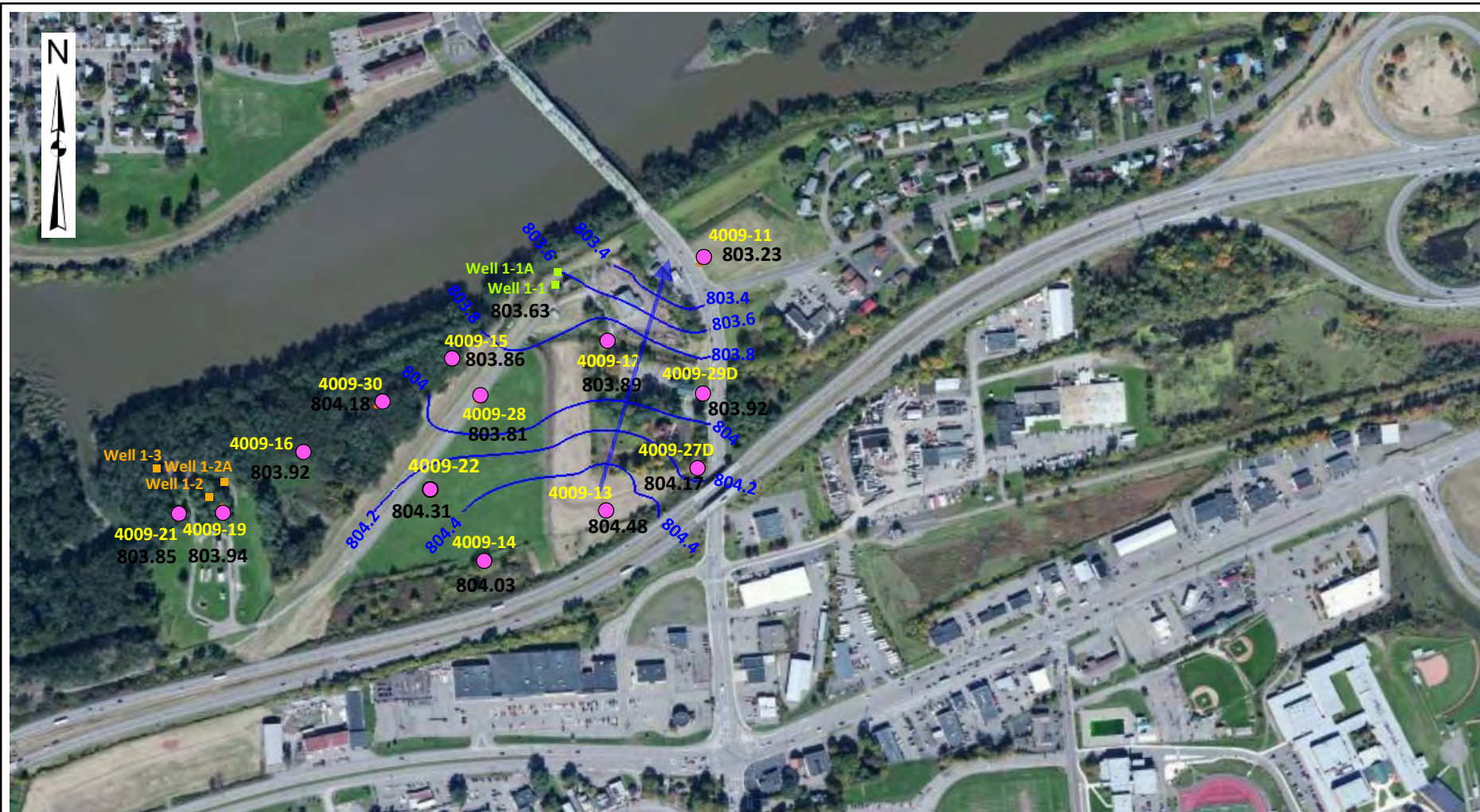
- **Well 1-1A**
EXTRACTION WELL & IDENTIFIER
- **4009-12A**
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- **803.75**
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- ~ **808**
WATER SUPPLY WELL & IDENTIFIER

0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Intermediate Potentiometric
Surface with Well 1-1A Inactive
(November 3, 2016)**

ARCADIS | **2-3** Figure



LEGEND

Well 1-1A



EXTRACTION WELL & IDENTIFIER

4009-15



MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)

804.01

GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)



Well 1-3



WATER SUPPLY WELL & IDENTIFIER

0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Deep Potentiometric Surface
with Well 1-1A Inactive
(November 3, 2016)

ARCADIS | 2-4

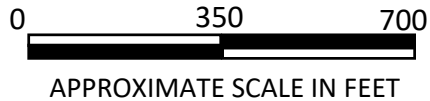
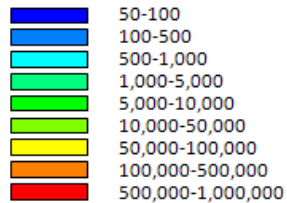
Figure



LEGEND

- Well 1-3**
■ WATER SUPPLY WELL & IDENTIFIER
- 4009-7**
● MONITORING WELL & IDENTIFIER
42.8 Total VOC Concentration(ug/L);
“ND” indicates no detection
- Well 1-1**
■ EXTRACTION WELL & IDENTIFIER

TOTAL VOCS (ug/L)



Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

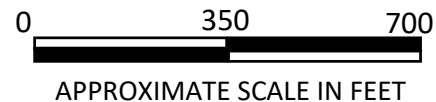
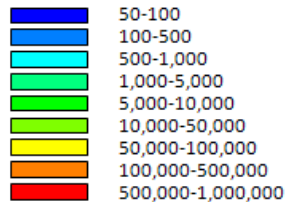
Total VOC Concentrations
(Shallow Wells)
November 28, 2016



LEGEND

- Well 1-3**
 WATER SUPPLY WELL & IDENTIFIER
- 4009-12A**
 MONITORING WELL & IDENTIFIER
 30.7
 Total VOC Concentration(ug/L);
 "ND" indicates no detection
- Well 1-1**
 EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

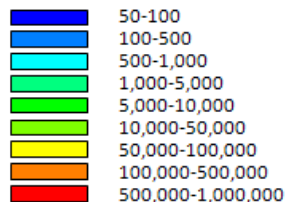
Total VOC Concentrations
 (Intermediate Wells)
 November 28, 2016



LEGEND

- Well 1-3**
■ WATER SUPPLY WELL & IDENTIFIER
- 4009-15**
● MONITORING WELL & IDENTIFIER
- 1.1**
Total VOC Concentration(ug/L);
“ND” indicates no detection
- Well 1-1**
■ EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/l)



0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Total VOC Concentrations
(Deep Wells)
November 28, 2016



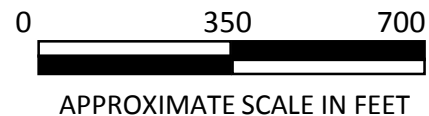
LEGEND

Well 1-3 (orange square) WATER SUPPLY WELL & IDENTIFIER

4009-7 (pink circle) MONITORING WELL & IDENTIFIER
Benzene Concentration(ug/L);
"ND" indicates no detection

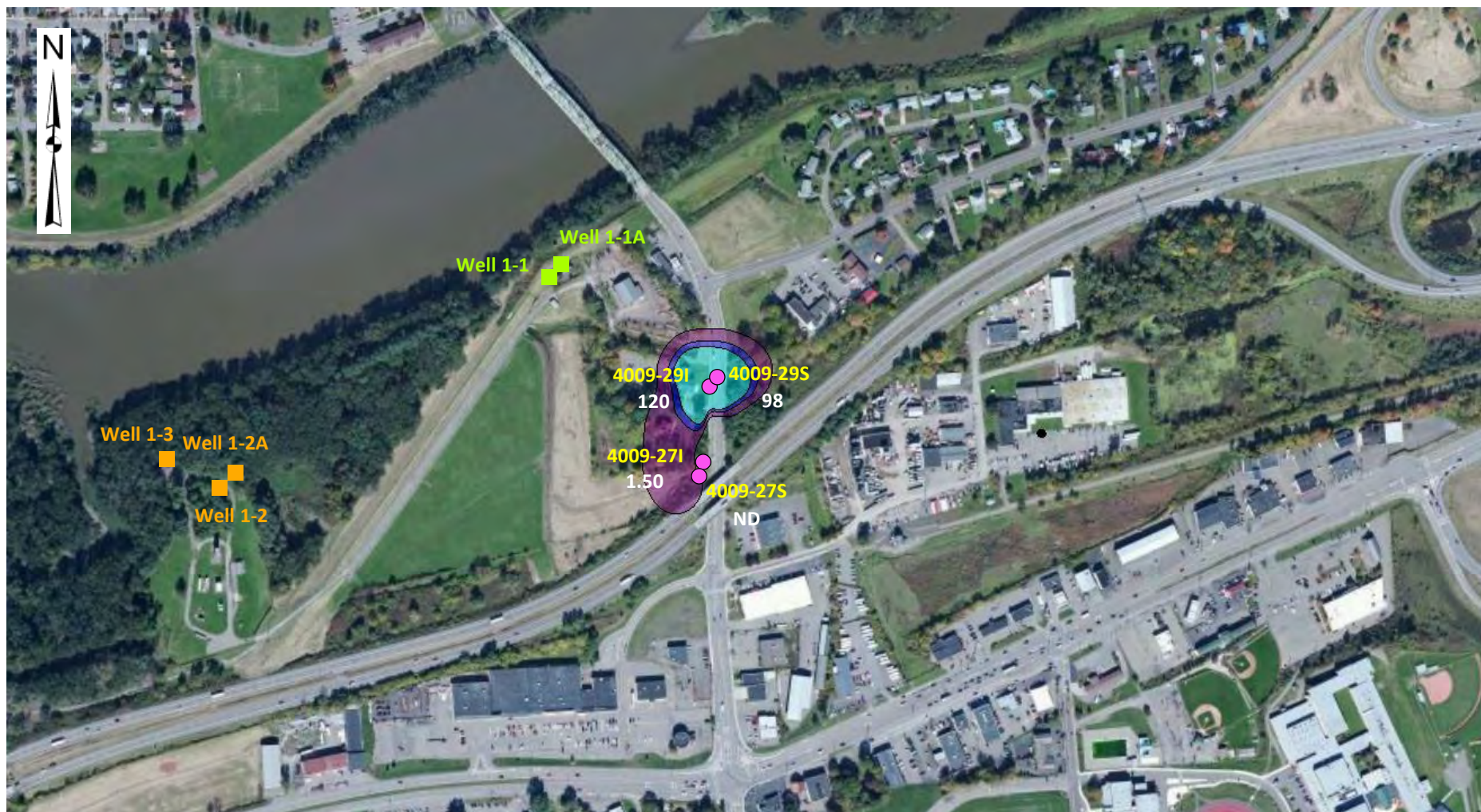
Well 1-1 (green square) EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)



Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Benzene Concentrations
(Shallow Wells)
November 28, 2016**



Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Benzene Concentrations
(Intermediate Wells)
November 28, 2016**



APPENDIX A

Analytical Reporting Forms (TestAmerica Laboratories, Inc. and
Microbac Laboratory Services)



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-108779-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

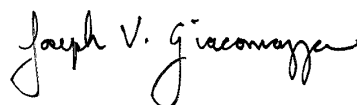
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

11/15/2016 10:03:26 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

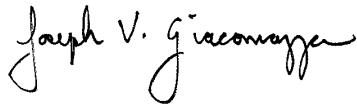
www.testamericainc.com

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.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
11/15/2016 10:03:26 AM

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Job ID: 480-108779-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-108779-1

Receipt

The samples were received on 11/1/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-108779-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-108779-2

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-108779-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-108779-1

Date Collected: 10/31/16 10:20

Matrix: Water

Date Received: 11/01/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/12/16 02:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/12/16 02:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/12/16 02:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/12/16 02:10	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/12/16 02:10	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/12/16 02:10	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/12/16 02:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/12/16 02:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/12/16 02:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/12/16 02:10	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/12/16 02:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/12/16 02:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/12/16 02:10	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/12/16 02:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/12/16 02:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/12/16 02:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/12/16 02:10	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/12/16 02:10	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/12/16 02:10	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/12/16 02:10	1
Acetone	10	U	10	3.0	ug/L			11/12/16 02:10	1
Benzene	1.0	U	1.0	0.41	ug/L			11/12/16 02:10	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/12/16 02:10	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/12/16 02:10	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/12/16 02:10	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/12/16 02:10	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/12/16 02:10	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/12/16 02:10	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/12/16 02:10	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/12/16 02:10	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/12/16 02:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/12/16 02:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/12/16 02:10	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/12/16 02:10	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/12/16 02:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/12/16 02:10	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/12/16 02:10	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/12/16 02:10	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/12/16 02:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/12/16 02:10	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/12/16 02:10	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/12/16 02:10	1
Styrene	1.0	U	1.0	0.73	ug/L			11/12/16 02:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/12/16 02:10	1
Toluene	1.0	U	1.0	0.51	ug/L			11/12/16 02:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/12/16 02:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/12/16 02:10	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/12/16 02:10	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/12/16 02:10	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-108779-1

Date Collected: 10/31/16 10:20

Matrix: Water

Date Received: 11/01/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/12/16 02:10	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/12/16 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					11/12/16 02:10	1
4-Bromofluorobenzene (Surr)	100		73 - 120					11/12/16 02:10	1
Dibromofluoromethane (Surr)	104		75 - 123					11/12/16 02:10	1
Toluene-d8 (Surr)	100		80 - 120					11/12/16 02:10	1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-108779-2

Date Collected: 10/31/16 10:15

Matrix: Water

Date Received: 11/01/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/12/16 02:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/12/16 02:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/12/16 02:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/12/16 02:33	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/12/16 02:33	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/12/16 02:33	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/12/16 02:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/12/16 02:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/12/16 02:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/12/16 02:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/12/16 02:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/12/16 02:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/12/16 02:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/12/16 02:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/12/16 02:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/12/16 02:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/12/16 02:33	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/12/16 02:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/12/16 02:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/12/16 02:33	1
Acetone	10	U	10	3.0	ug/L			11/12/16 02:33	1
Benzene	1.0	U	1.0	0.41	ug/L			11/12/16 02:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/12/16 02:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/12/16 02:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/12/16 02:33	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/12/16 02:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/12/16 02:33	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/12/16 02:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/12/16 02:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/12/16 02:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/12/16 02:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/12/16 02:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/12/16 02:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/12/16 02:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/12/16 02:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-108779-2

Date Collected: 10/31/16 10:15

Matrix: Water

Date Received: 11/01/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/12/16 02:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/12/16 02:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/12/16 02:33	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/12/16 02:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/12/16 02:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/12/16 02:33	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/12/16 02:33	1
Styrene	1.0	U	1.0	0.73	ug/L			11/12/16 02:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/12/16 02:33	1
Toluene	1.0	U	1.0	0.51	ug/L			11/12/16 02:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/12/16 02:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/12/16 02:33	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/12/16 02:33	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/12/16 02:33	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/12/16 02:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/12/16 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		11/12/16 02:33	1
4-Bromofluorobenzene (Surr)	102		73 - 120		11/12/16 02:33	1
Dibromofluoromethane (Surr)	102		75 - 123		11/12/16 02:33	1
Toluene-d8 (Surr)	101		80 - 120		11/12/16 02:33	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-108779-3

Date Collected: 10/31/16 00:00

Matrix: Water

Date Received: 11/01/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/12/16 02:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/12/16 02:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/12/16 02:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/12/16 02:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/12/16 02:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/12/16 02:56	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/12/16 02:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/12/16 02:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/12/16 02:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/12/16 02:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/12/16 02:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/12/16 02:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/12/16 02:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/12/16 02:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/12/16 02:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/12/16 02:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/12/16 02:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/12/16 02:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/12/16 02:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/12/16 02:56	1
Acetone	10	U	10	3.0	ug/L			11/12/16 02:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-108779-3

Date Collected: 10/31/16 00:00

Matrix: Water

Date Received: 11/01/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			11/12/16 02:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/12/16 02:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/12/16 02:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/12/16 02:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/12/16 02:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/12/16 02:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/12/16 02:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/12/16 02:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/12/16 02:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/12/16 02:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/12/16 02:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/12/16 02:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/12/16 02:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/12/16 02:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/12/16 02:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/12/16 02:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/12/16 02:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/12/16 02:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/12/16 02:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/12/16 02:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/12/16 02:56	1
Styrene	1.0	U	1.0	0.73	ug/L			11/12/16 02:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/12/16 02:56	1
Toluene	1.0	U	1.0	0.51	ug/L			11/12/16 02:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/12/16 02:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/12/16 02:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/12/16 02:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/12/16 02:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/12/16 02:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/12/16 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		11/12/16 02:56	1
4-Bromofluorobenzene (Surr)	99		73 - 120		11/12/16 02:56	1
Dibromofluoromethane (Surr)	103		75 - 123		11/12/16 02:56	1
Toluene-d8 (Surr)	99		80 - 120		11/12/16 02:56	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

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 (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-108779-1	WELL 1-2A	104	100	104	100
480-108779-2	WELL 1-3	102	102	102	101
480-108779-3	TRIP BLANK	102	99	103	99
LCS 480-331172/4	Lab Control Sample	104	103	107	102
MB 480-331172/6	Method Blank	101	100	101	100

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

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

Lab Sample ID: MB 480-331172/6

Matrix: Water

Analysis Batch: 331172

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	1.0	U	1.0	0.82	ug/L			11/11/16 21:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/11/16 21:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/11/16 21:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/11/16 21:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/11/16 21:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/11/16 21:56	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/11/16 21:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/11/16 21:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/11/16 21:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/11/16 21:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/11/16 21:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/11/16 21:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/11/16 21:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/11/16 21:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/11/16 21:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/11/16 21:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/11/16 21:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/11/16 21:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/11/16 21:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/11/16 21:56	1
Acetone	10	U	10	3.0	ug/L			11/11/16 21:56	1
Benzene	1.0	U	1.0	0.41	ug/L			11/11/16 21:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/11/16 21:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/11/16 21:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/11/16 21:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/11/16 21:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/11/16 21:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/11/16 21:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/11/16 21:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/11/16 21:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/11/16 21:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/11/16 21:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/11/16 21:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/11/16 21:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/11/16 21:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/11/16 21:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/11/16 21:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/11/16 21:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/11/16 21:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/11/16 21:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/11/16 21:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/11/16 21:56	1
Styrene	1.0	U	1.0	0.73	ug/L			11/11/16 21:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/11/16 21:56	1
Toluene	1.0	U	1.0	0.51	ug/L			11/11/16 21:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/11/16 21:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/11/16 21:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/11/16 21:56	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

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

Lab Sample ID: MB 480-331172/6

Matrix: Water

Analysis Batch: 331172

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/11/16 21:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/11/16 21:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/11/16 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		11/11/16 21:56	1
4-Bromofluorobenzene (Surr)	100		73 - 120		11/11/16 21:56	1
Dibromofluoromethane (Surr)	101		75 - 123		11/11/16 21:56	1
Toluene-d8 (Surr)	100		80 - 120		11/11/16 21:56	1

Lab Sample ID: LCS 480-331172/4

Matrix: Water

Analysis Batch: 331172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.9		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.0		ug/L		112	61 - 148
1,1,2-Trichloroethane	25.0	26.6		ug/L		106	76 - 122
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	30.2		ug/L		121	66 - 127
1,2,3-Trimethylbenzene	25.0	25.9		ug/L		104	78 - 120
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	79 - 122
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		102	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	27.6		ug/L		110	56 - 134
1,2-Dibromoethane	25.0	26.7		ug/L		107	77 - 120
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	77 - 121
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 120
2-Butanone (MEK)	125	125		ug/L		100	57 - 140
2-Hexanone	125	117		ug/L		94	65 - 127
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	26.2		ug/L		105	71 - 124
Bromodichloromethane	25.0	26.6		ug/L		106	80 - 122
Bromoform	25.0	25.9		ug/L		104	61 - 132
Bromomethane	25.0	28.3		ug/L		113	55 - 144
Carbon disulfide	25.0	27.2		ug/L		109	59 - 134
Carbon tetrachloride	25.0	27.7		ug/L		111	72 - 134
Chlorobenzene	25.0	26.4		ug/L		106	80 - 120
Chloroethane	25.0	29.1		ug/L		116	69 - 136
Chloroform	25.0	25.9		ug/L		104	73 - 127
Chloromethane	25.0	27.6		ug/L		110	68 - 124
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

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

Lab Sample ID: LCS 480-331172/4

Matrix: Water

Analysis Batch: 331172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	74 - 124
Cyclohexane	25.0	28.1		ug/L		113	59 - 135
Dibromochloromethane	25.0	26.4		ug/L		106	75 - 125
Dichlorodifluoromethane	25.0	29.7		ug/L		119	59 - 135
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123
Isopropylbenzene	25.0	25.7		ug/L		103	77 - 122
Methyl acetate	125	122		ug/L		97	74 - 133
Methyl tert-butyl ether	25.0	25.6		ug/L		102	77 - 120
Methylcyclohexane	25.0	28.0		ug/L		112	68 - 134
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124
Styrene	25.0	26.0		ug/L		104	80 - 120
Tetrachloroethene	25.0	29.7		ug/L		119	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	27.6		ug/L		110	73 - 127
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	80 - 120
Trichloroethene	25.0	27.1		ug/L		108	74 - 123
Trichlorofluoromethane	25.0	28.3		ug/L		113	62 - 150
Vinyl chloride	25.0	29.7		ug/L		119	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123
Toluene-d8 (Surr)	102		80 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

GC/MS VOA

Analysis Batch: 331172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-108779-1	WELL 1-2A	Total/NA	Water	8260C	
480-108779-2	WELL 1-3	Total/NA	Water	8260C	
480-108779-3	TRIP BLANK	Total/NA	Water	8260C	
MB 480-331172/6	Method Blank	Total/NA	Water	8260C	
LCS 480-331172/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Client Sample ID: WELL 1-2A

Date Collected: 10/31/16 10:20

Date Received: 11/01/16 09:30

Lab Sample ID: 480-108779-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	331172	11/12/16 02:10	JWG	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 10/31/16 10:15

Date Received: 11/01/16 09:30

Lab Sample ID: 480-108779-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	331172	11/12/16 02:33	JWG	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 10/31/16 00:00

Date Received: 11/01/16 09:30

Lab Sample ID: 480-108779-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	331172	11/12/16 02:56	JWG	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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-108779-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-108779-1	WELL 1-2A	Water	10/31/16 10:20	11/01/16 09:30
480-108779-2	WELL 1-3	Water	10/31/16 10:15	11/01/16 09:30
480-108779-3	TRIP BLANK	Water	10/31/16 00:00	11/01/16 09:30

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2800 Fax (716) 691-7991

Chain of Custody Record



THE IT ASHER, INC.

Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7300(Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site:		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Phone: 315-436-5041 Carrier Tracking No(s): COC No: 480-86430-180 Page: 1 of 1 Job #:		Due Date Requested: TAT Requested (days): STD PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOV#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylhydrate U - Asstione V - MCAA W - pH 4.5 Z - other (specify)		Special Instructions/Note: Total Number of Containers:	
Sample Identification Well 1-2A Well 1-3 Trip Blank		Sample Date 10-31-16 10-31-16 10-31-16	Sample Time 10:20 10:15 -	Sample Type (C=comp, G=grab) G G -	Matrix (Water, Sediment, Other) Water Water Water	Field Filtered Sample (Yes or No) 8280C - (MOD) TCL list OLMO42 BOD/MS/SD/NO3 X X X	Special Instructions/Note: Total Number of Containers:		
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV		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:		Method of Shipment:			
Empty Kit Relinquished by:		Date:		Received by:		Date:			
Relinquished by:		Date:		Received by:		Date:			
Relinquished by:		Date:		Received by:		Date:			
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		26.01			

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-108779-1

Login Number: 108779

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

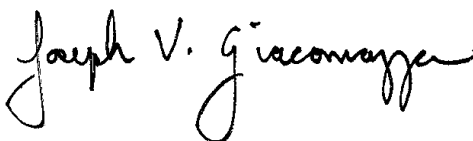
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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 (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-110191-1

Job Description: NYSDEC-Standby VESTAL

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
12/8/2016 2:22 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
12/08/2016

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



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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
480-110191-1

Receipt

The samples were received on 11/30/2016 12:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WELL 1-1 (480-110191-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-29S (480-110191-20), 4009-29I (480-110191-21) and DUP-2 (480-110191-27). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-334565 recovered outside acceptance criteria, low biased, for Chloromethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. 4009-29S (480-110191-20), 4009-29I (480-110191-21) and DUP-2 (480-110191-27).

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110191-1	WELL 1-1	Water	11/28/16 10:00	11/30/16 00:45
480-110191-2	4009-9	Water	11/28/16 14:35	11/30/16 00:45
480-110191-3	4009-10	Water	11/28/16 14:45	11/30/16 00:45
480-110191-4	4009-11	Water	11/28/16 15:00	11/30/16 00:45
480-110191-5	4009-12	Water	11/28/16 13:05	11/30/16 00:45
480-110191-6	4009-13	Water	11/28/16 14:25	11/30/16 00:45
480-110191-7	4009-13A	Water	11/28/16 14:20	11/30/16 00:45
480-110191-8	4009-14	Water	11/28/16 10:40	11/30/16 00:45
480-110191-9	4009-15	Water	11/28/16 12:20	11/30/16 00:45
480-110191-10	4009-16	Water	11/28/16 12:00	11/30/16 00:45
480-110191-11	4009-16A	Water	11/28/16 11:55	11/30/16 00:45
480-110191-12	4009-18	Water	11/28/16 11:10	11/30/16 00:45
480-110191-13	4009-19	Water	11/28/16 11:20	11/30/16 00:45
480-110191-14	4009-21	Water	11/28/16 11:15	11/30/16 00:45
480-110191-15	4009-22	Water	11/28/16 10:25	11/30/16 00:45
480-110191-16	4009-27S	Water	11/28/16 14:10	11/30/16 00:45
480-110191-17	4009-27I	Water	11/28/16 14:05	11/30/16 00:45
480-110191-18	4009-27D	Water	11/28/16 14:00	11/30/16 00:45
480-110191-19	4009-28	Water	11/28/16 10:15	11/30/16 00:45
480-110191-20	4009-29S	Water	11/28/16 13:45	11/30/16 00:45
480-110191-21	4009-29I	Water	11/28/16 13:40	11/30/16 00:45
480-110191-22	4009-29D	Water	11/28/16 13:35	11/30/16 00:45
480-110191-23	4009-30	Water	11/28/16 12:15	11/30/16 00:45
480-110191-24	4009-30A	Water	11/28/16 12:10	11/30/16 00:45
480-110191-25	4009-11A	Water	11/28/16 14:55	11/30/16 00:45
480-110191-26	DUP-1	Water	11/28/16 00:00	11/30/16 00:45
480-110191-27	DUP-2	Water	11/28/16 00:00	11/30/16 00:45
480-110191-28	FIELD BLANK	Water	11/28/16 15:35	11/30/16 00:45
480-110191-29	TRIP BLANK	Water	11/28/16 00:00	11/30/16 00:45

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: WELL 1-1

Lab Sample ID: 480-110191-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	220		5.0	4.1	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	18		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene	31		5.0	1.5	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	62		5.0	4.1	ug/L	5		8260C	Total/NA
Trichloroethene	66		5.0	2.3	ug/L	5		8260C	Total/NA

Client Sample ID: 4009-9

Lab Sample ID: 480-110191-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	19		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.81	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-10

Lab Sample ID: 480-110191-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.4		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11

Lab Sample ID: 480-110191-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.1		1.0	0.38	ug/L	1		8260C	Total/NA
Benzene	16		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.82	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-12

Lab Sample ID: 480-110191-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.9		1.0	0.38	ug/L	1		8260C	Total/NA
Benzene	9.1		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.95	J	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.60	J	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.6		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13

Lab Sample ID: 480-110191-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.9		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13A

Lab Sample ID: 480-110191-7

No Detections.

Client Sample ID: 4009-14

Lab Sample ID: 480-110191-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	17		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-15

Lab Sample ID: 480-110191-9

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-15 (Continued)

Lab Sample ID: 480-110191-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.4	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	9.0		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16

Lab Sample ID: 480-110191-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16A

Lab Sample ID: 480-110191-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	36		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-18

Lab Sample ID: 480-110191-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-19

Lab Sample ID: 480-110191-13

No Detections.

Client Sample ID: 4009-21

Lab Sample ID: 480-110191-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	19		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-22

Lab Sample ID: 480-110191-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	1.3		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27S

Lab Sample ID: 480-110191-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	61		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.6		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.5		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	8.8		1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	23		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	24		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27I

Lab Sample ID: 480-110191-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27D

Lab Sample ID: 480-110191-18

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-28

Lab Sample ID: 480-110191-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.5		1.0	0.82	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-29S

Lab Sample ID: 480-110191-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	23		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	50		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	3.2		2.0	0.58	ug/L	2		8260C	Total/NA
Acetone	8.0	J	20	6.0	ug/L	2		8260C	Total/NA
Benzene	98		2.0	0.82	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	59		2.0	1.6	ug/L	2		8260C	Total/NA
Toluene	1.5	J	2.0	1.0	ug/L	2		8260C	Total/NA
Vinyl chloride	2.5		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-29I

Lab Sample ID: 480-110191-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.9		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.1		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	5.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	110	E	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	28		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
Toluene	1.8		1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	2.1		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.7		1.0	0.90	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	3.9		2.0	0.76	ug/L	2		8260C	Total/NA
Acetone - DL	6.1	J	20	6.0	ug/L	2		8260C	Total/NA
Benzene - DL	120		2.0	0.82	ug/L	2		8260C	Total/NA
Chloroethane - DL	29		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	41		2.0	1.6	ug/L	2		8260C	Total/NA
Toluene - DL	1.7	J	2.0	1.0	ug/L	2		8260C	Total/NA
Trichloroethene - DL	2.0		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - DL	2.0		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-29D

Lab Sample ID: 480-110191-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	21		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	6.3		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.8		1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.5		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	1.7		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	15		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-30

Lab Sample ID: 480-110191-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.93	J	1.0	0.38	ug/L	1		8260C	Total/NA
Benzene	1.0		1.0	0.41	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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-110191-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.63	J	1.0	0.38	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11A

Lab Sample ID: 480-110191-25

No Detections.

Client Sample ID: DUP-1

Lab Sample ID: 480-110191-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.1		1.0	0.38	ug/L	1		8260C	Total/NA
Benzene	9.5		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.62	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-2

Lab Sample ID: 480-110191-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.0		2.0	0.76	ug/L	2		8260C	Total/NA
Benzene	110		2.0	0.82	ug/L	2		8260C	Total/NA
Chloroethane	27		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	41		2.0	1.6	ug/L	2		8260C	Total/NA
Toluene	1.7	J	2.0	1.0	ug/L	2		8260C	Total/NA
Trichloroethene	2.1		2.0	0.92	ug/L	2		8260C	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-110191-28

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110191-29

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: WELL 1-1

Date Collected: 11/28/16 10:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	220		5.0	4.1	ug/L			12/02/16 13:32	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			12/02/16 13:32	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.6	ug/L			12/02/16 13:32	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			12/02/16 13:32	5
1,1-Dichloroethane	18		5.0	1.9	ug/L			12/02/16 13:32	5
1,1-Dichloroethene	31		5.0	1.5	ug/L			12/02/16 13:32	5
1,2,3-Trimethylbenzene	5.0	U	5.0	1.3	ug/L			12/02/16 13:32	5
1,2,4-Trichlorobenzene	5.0	U	5.0	2.1	ug/L			12/02/16 13:32	5
1,2,4-Trimethylbenzene	5.0	U	5.0	3.8	ug/L			12/02/16 13:32	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0	ug/L			12/02/16 13:32	5
1,2-Dibromoethane	5.0	U	5.0	3.7	ug/L			12/02/16 13:32	5
1,2-Dichlorobenzene	5.0	U	5.0	4.0	ug/L			12/02/16 13:32	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			12/02/16 13:32	5
1,2-Dichloropropane	5.0	U	5.0	3.6	ug/L			12/02/16 13:32	5
1,3,5-Trimethylbenzene	5.0	U	5.0	3.9	ug/L			12/02/16 13:32	5
1,3-Dichlorobenzene	5.0	U	5.0	3.9	ug/L			12/02/16 13:32	5
1,4-Dichlorobenzene	5.0	U	5.0	4.2	ug/L			12/02/16 13:32	5
2-Butanone (MEK)	50	U	50	6.6	ug/L			12/02/16 13:32	5
2-Hexanone	25	U	25	6.2	ug/L			12/02/16 13:32	5
4-Methyl-2-pentanone (MIBK)	25	U	25	11	ug/L			12/02/16 13:32	5
Acetone	50	U	50	15	ug/L			12/02/16 13:32	5
Benzene	5.0	U	5.0	2.1	ug/L			12/02/16 13:32	5
Bromodichloromethane	5.0	U	5.0	2.0	ug/L			12/02/16 13:32	5
Bromoform	5.0	U	5.0	1.3	ug/L			12/02/16 13:32	5
Bromomethane	5.0	U	5.0	3.5	ug/L			12/02/16 13:32	5
Carbon disulfide	5.0	U	5.0	0.95	ug/L			12/02/16 13:32	5
Carbon tetrachloride	5.0	U	5.0	1.4	ug/L			12/02/16 13:32	5
Chlorobenzene	5.0	U	5.0	3.8	ug/L			12/02/16 13:32	5
Chloroethane	5.0	U	5.0	1.6	ug/L			12/02/16 13:32	5
Chloroform	5.0	U	5.0	1.7	ug/L			12/02/16 13:32	5
Chloromethane	5.0	U	5.0	1.8	ug/L			12/02/16 13:32	5
cis-1,2-Dichloroethene	62		5.0	4.1	ug/L			12/02/16 13:32	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.8	ug/L			12/02/16 13:32	5
Cyclohexane	5.0	U	5.0	0.90	ug/L			12/02/16 13:32	5
Dibromochloromethane	5.0	U	5.0	1.6	ug/L			12/02/16 13:32	5
Dichlorodifluoromethane	5.0	U	5.0	3.4	ug/L			12/02/16 13:32	5
Ethylbenzene	5.0	U	5.0	3.7	ug/L			12/02/16 13:32	5
Isopropylbenzene	5.0	U	5.0	4.0	ug/L			12/02/16 13:32	5
Methyl acetate	13	U	13	6.5	ug/L			12/02/16 13:32	5
Methyl tert-butyl ether	5.0	U	5.0	0.80	ug/L			12/02/16 13:32	5
Methylcyclohexane	5.0	U	5.0	0.80	ug/L			12/02/16 13:32	5
Methylene Chloride	5.0	U	5.0	2.2	ug/L			12/02/16 13:32	5
Styrene	5.0	U	5.0	3.7	ug/L			12/02/16 13:32	5
Tetrachloroethene	5.0	U	5.0	1.8	ug/L			12/02/16 13:32	5
Toluene	5.0	U	5.0	2.6	ug/L			12/02/16 13:32	5
trans-1,2-Dichloroethene	5.0	U	5.0	4.5	ug/L			12/02/16 13:32	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.9	ug/L			12/02/16 13:32	5
Trichloroethene	66		5.0	2.3	ug/L			12/02/16 13:32	5
Trichlorofluoromethane	5.0	U	5.0	4.4	ug/L			12/02/16 13:32	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: WELL 1-1

Date Collected: 11/28/16 10:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	5.0	U	5.0	4.5	ug/L			12/02/16 13:32	5
Xylenes, Total	10	U	10	3.3	ug/L			12/02/16 13:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/02/16 13:32	5
4-Bromofluorobenzene (Surr)	95		73 - 120		12/02/16 13:32	5
Dibromofluoromethane (Surr)	101		75 - 123		12/02/16 13:32	5
Toluene-d8 (Surr)	100		80 - 120		12/02/16 13:32	5

Client Sample ID: 4009-9

Date Collected: 11/28/16 14:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 13:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 13:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 13:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 13:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 13:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 13:55	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 13:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 13:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 13:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 13:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 13:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 13:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 13:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 13:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 13:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 13:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 13:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 13:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 13:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 13:55	1
Acetone	10	U	10	3.0	ug/L			12/02/16 13:55	1
Benzene	1.3		1.0	0.41	ug/L			12/02/16 13:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 13:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 13:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 13:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 13:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 13:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 13:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 13:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 13:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 13:55	1
cis-1,2-Dichloroethene	19		1.0	0.81	ug/L			12/02/16 13:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 13:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 13:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 13:55	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-9

Date Collected: 11/28/16 14:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 13:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 13:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 13:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 13:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 13:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 13:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 13:55	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 13:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 13:55	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 13:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 13:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 13:55	1
Trichloroethene	0.81	J	1.0	0.46	ug/L			12/02/16 13:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 13:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 13:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/16 13:55	1
4-Bromofluorobenzene (Surr)	96		73 - 120		12/02/16 13:55	1
Dibromofluoromethane (Surr)	100		75 - 123		12/02/16 13:55	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 13:55	1

Client Sample ID: 4009-10

Date Collected: 11/28/16 14:45

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 14:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 14:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 14:17	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 14:17	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 14:17	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 14:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 14:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 14:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 14:17	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 14:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 14:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 14:17	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 14:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 14:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 14:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 14:17	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 14:17	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 14:17	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 14:17	1
Acetone	10	U	10	3.0	ug/L			12/02/16 14:17	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-10

Date Collected: 11/28/16 14:45

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.4		1.0	0.41	ug/L			12/02/16 14:17	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 14:17	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 14:17	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 14:17	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 14:17	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 14:17	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 14:17	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 14:17	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 14:17	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 14:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 14:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 14:17	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 14:17	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 14:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 14:17	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 14:17	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 14:17	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 14:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 14:17	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 14:17	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 14:17	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 14:17	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 14:17	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 14:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 14:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 14:17	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 14:17	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 14:17	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 14:17	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/02/16 14:17	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/02/16 14:17	1
Dibromofluoromethane (Surr)	103		75 - 123		12/02/16 14:17	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 14:17	1

Client Sample ID: 4009-11

Date Collected: 11/28/16 15:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 14:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 14:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 14:40	1
1,1-Dichloroethane	2.1		1.0	0.38	ug/L			12/02/16 14:40	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 14:40	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 14:40	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-11

Date Collected: 11/28/16 15:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 14:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 14:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 14:40	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 14:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 14:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 14:40	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 14:40	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 14:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 14:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 14:40	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 14:40	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 14:40	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 14:40	1
Acetone	10	U	10	3.0	ug/L			12/02/16 14:40	1
Benzene	16		1.0	0.41	ug/L			12/02/16 14:40	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 14:40	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 14:40	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 14:40	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 14:40	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 14:40	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 14:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 14:40	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 14:40	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 14:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 14:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 14:40	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 14:40	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 14:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 14:40	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 14:40	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 14:40	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 14:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 14:40	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 14:40	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 14:40	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 14:40	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 14:40	1
Toluene	0.82	J	1.0	0.51	ug/L			12/02/16 14:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 14:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 14:40	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 14:40	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 14:40	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 14:40	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/16 14:40	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/02/16 14:40	1
Dibromofluoromethane (Surr)	100		75 - 123		12/02/16 14:40	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 14:40	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-12

Date Collected: 11/28/16 13:05

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 15:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 15:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 15:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 15:04	1
1,1-Dichloroethane	2.9		1.0	0.38	ug/L			12/02/16 15:04	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 15:04	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 15:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 15:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 15:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 15:04	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 15:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 15:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 15:04	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 15:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 15:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 15:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 15:04	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 15:04	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 15:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 15:04	1
Acetone	10	U	10	3.0	ug/L			12/02/16 15:04	1
Benzene	9.1		1.0	0.41	ug/L			12/02/16 15:04	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 15:04	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 15:04	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 15:04	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 15:04	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 15:04	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 15:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 15:04	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 15:04	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 15:04	1
cis-1,2-Dichloroethene	0.95	J	1.0	0.81	ug/L			12/02/16 15:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 15:04	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 15:04	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 15:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 15:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 15:04	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 15:04	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 15:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 15:04	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 15:04	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 15:04	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 15:04	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 15:04	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 15:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 15:04	1
Trichloroethene	0.60	J	1.0	0.46	ug/L			12/02/16 15:04	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 15:04	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-12

Date Collected: 11/28/16 13:05

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.6		1.0	0.90	ug/L			12/02/16 15:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					12/02/16 15:04	1
4-Bromofluorobenzene (Surr)	97		73 - 120					12/02/16 15:04	1
Dibromofluoromethane (Surr)	101		75 - 123					12/02/16 15:04	1
Toluene-d8 (Surr)	103		80 - 120					12/02/16 15:04	1

Client Sample ID: 4009-13

Date Collected: 11/28/16 14:25

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 15:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 15:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 15:27	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 15:27	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 15:27	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 15:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 15:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 15:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 15:27	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 15:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 15:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 15:27	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 15:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 15:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 15:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 15:27	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 15:27	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 15:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 15:27	1
Acetone	10	U	10	3.0	ug/L			12/02/16 15:27	1
Benzene	1.9		1.0	0.41	ug/L			12/02/16 15:27	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 15:27	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 15:27	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 15:27	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 15:27	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 15:27	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 15:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 15:27	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 15:27	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 15:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 15:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 15:27	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 15:27	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 15:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-13

Date Collected: 11/28/16 14:25

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 15:27	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 15:27	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 15:27	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 15:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 15:27	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 15:27	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 15:27	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 15:27	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 15:27	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 15:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 15:27	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 15:27	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 15:27	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 15:27	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/02/16 15:27	1
4-Bromofluorobenzene (Surr)	93		73 - 120		12/02/16 15:27	1
Dibromofluoromethane (Surr)	100		75 - 123		12/02/16 15:27	1
Toluene-d8 (Surr)	100		80 - 120		12/02/16 15:27	1

Client Sample ID: 4009-13A

Date Collected: 11/28/16 14:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 15:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 15:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 15:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 15:50	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 15:50	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 15:50	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 15:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 15:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 15:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 15:50	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 15:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 15:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 15:50	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 15:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 15:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 15:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 15:50	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 15:50	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 15:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 15:50	1
Acetone	10	U	10	3.0	ug/L			12/02/16 15:50	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-110191-7

Date Collected: 11/28/16 14:20

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 15:50	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 15:50	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 15:50	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 15:50	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 15:50	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 15:50	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 15:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 15:50	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 15:50	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 15:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 15:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 15:50	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 15:50	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 15:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 15:50	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 15:50	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 15:50	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 15:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 15:50	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 15:50	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 15:50	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 15:50	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 15:50	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 15:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 15:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 15:50	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 15:50	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 15:50	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 15:50	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		12/02/16 15:50	1
4-Bromofluorobenzene (Surr)	96		73 - 120		12/02/16 15:50	1
Dibromofluoromethane (Surr)	100		75 - 123		12/02/16 15:50	1
Toluene-d8 (Surr)	102		80 - 120		12/02/16 15:50	1

Client Sample ID: 4009-14

Lab Sample ID: 480-110191-8

Date Collected: 11/28/16 10:40

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 16:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 16:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 16:13	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 16:13	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 16:13	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 16:13	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-14

Date Collected: 11/28/16 10:40

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 16:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 16:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 16:13	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 16:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 16:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 16:13	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 16:13	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 16:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 16:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 16:13	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 16:13	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 16:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 16:13	1
Acetone	10	U	10	3.0	ug/L			12/02/16 16:13	1
Benzene	17		1.0	0.41	ug/L			12/02/16 16:13	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 16:13	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 16:13	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 16:13	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 16:13	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 16:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 16:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 16:13	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 16:13	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 16:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 16:13	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 16:13	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 16:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 16:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 16:13	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 16:13	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 16:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 16:13	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 16:13	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 16:13	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 16:13	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 16:13	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 16:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 16:13	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 16:13	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 16:13	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 16:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/02/16 16:13	1
4-Bromofluorobenzene (Surr)	96		73 - 120		12/02/16 16:13	1
Dibromofluoromethane (Surr)	103		75 - 123		12/02/16 16:13	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 16:13	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-15

Date Collected: 11/28/16 12:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 16:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 16:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 16:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 16:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 16:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 16:36	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 16:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 16:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 16:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 16:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 16:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 16:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 16:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 16:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 16:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 16:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 16:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 16:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 16:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 16:36	1
Acetone	8.4	J	10	3.0	ug/L			12/02/16 16:36	1
Benzene	9.0		1.0	0.41	ug/L			12/02/16 16:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 16:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 16:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 16:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 16:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 16:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 16:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 16:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 16:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 16:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 16:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 16:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 16:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 16:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 16:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 16:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 16:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 16:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 16:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 16:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 16:36	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 16:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 16:36	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 16:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 16:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 16:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 16:36	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 16:36	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-15

Date Collected: 11/28/16 12:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 16:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/02/16 16:36	1
4-Bromofluorobenzene (Surr)	94		73 - 120		12/02/16 16:36	1
Dibromofluoromethane (Surr)	102		75 - 123		12/02/16 16:36	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 16:36	1

Client Sample ID: 4009-16

Date Collected: 11/28/16 12:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 16:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 16:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 16:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 16:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 16:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 16:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 16:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 16:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 16:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 16:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 16:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 16:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 16:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 16:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 16:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 16:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 16:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 16:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 16:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 16:59	1
Acetone	10	U	10	3.0	ug/L			12/02/16 16:59	1
Benzene	1.8		1.0	0.41	ug/L			12/02/16 16:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 16:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 16:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 16:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 16:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 16:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 16:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 16:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 16:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 16:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 16:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 16:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 16:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 16:59	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-16

Date Collected: 11/28/16 12:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 16:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 16:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 16:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 16:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 16:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 16:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 16:59	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 16:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 16:59	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 16:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 16:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 16:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 16:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 16:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 16:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/02/16 16:59	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/02/16 16:59	1
Dibromofluoromethane (Surr)	102		75 - 123		12/02/16 16:59	1
Toluene-d8 (Surr)	102		80 - 120		12/02/16 16:59	1

Client Sample ID: 4009-16A

Date Collected: 11/28/16 11:55

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 17:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 17:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 17:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 17:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 17:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 17:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 17:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 17:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 17:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 17:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 17:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 17:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 17:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 17:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 17:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 17:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 17:22	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 17:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 17:22	1
Acetone	10	U	10	3.0	ug/L			12/02/16 17:22	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-110191-11

Date Collected: 11/28/16 11:55

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	36		1.0	0.41	ug/L			12/02/16 17:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 17:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 17:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 17:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 17:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 17:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 17:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 17:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 17:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 17:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 17:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 17:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 17:22	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 17:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 17:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 17:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 17:22	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 17:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 17:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 17:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 17:22	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 17:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 17:22	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 17:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 17:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 17:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 17:22	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 17:22	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 17:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/16 17:22	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/02/16 17:22	1
Dibromofluoromethane (Surr)	101		75 - 123		12/02/16 17:22	1
Toluene-d8 (Surr)	102		80 - 120		12/02/16 17:22	1

Client Sample ID: 4009-18

Lab Sample ID: 480-110191-12

Date Collected: 11/28/16 11:10

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 17:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 17:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 17:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 17:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 17:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 17:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-18

Date Collected: 11/28/16 11:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 17:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 17:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 17:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 17:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 17:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 17:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 17:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 17:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 17:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 17:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 17:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 17:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 17:45	1
Acetone	10	U	10	3.0	ug/L			12/02/16 17:45	1
Benzene	1.7		1.0	0.41	ug/L			12/02/16 17:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 17:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 17:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 17:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 17:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 17:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 17:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 17:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 17:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 17:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 17:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 17:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 17:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 17:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 17:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 17:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 17:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 17:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 17:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 17:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 17:45	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 17:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 17:45	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 17:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 17:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 17:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 17:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 17:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 17:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/02/16 17:45	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/02/16 17:45	1
Dibromofluoromethane (Surr)	101		75 - 123		12/02/16 17:45	1
Toluene-d8 (Surr)	102		80 - 120		12/02/16 17:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-19

Date Collected: 11/28/16 11:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 18:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 18:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 18:08	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 18:08	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 18:08	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 18:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 18:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 18:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 18:08	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 18:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 18:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 18:08	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 18:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 18:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 18:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 18:08	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 18:08	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 18:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 18:08	1
Acetone	10	U	10	3.0	ug/L			12/02/16 18:08	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 18:08	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 18:08	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 18:08	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 18:08	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 18:08	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 18:08	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 18:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 18:08	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 18:08	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 18:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 18:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 18:08	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 18:08	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 18:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 18:08	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 18:08	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 18:08	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 18:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 18:08	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 18:08	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 18:08	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 18:08	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 18:08	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 18:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 18:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 18:08	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 18:08	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 18:08	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-19

Date Collected: 11/28/16 11:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 18:08	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/02/16 18:08	1
4-Bromofluorobenzene (Surr)	94		73 - 120		12/02/16 18:08	1
Dibromofluoromethane (Surr)	103		75 - 123		12/02/16 18:08	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 18:08	1

Client Sample ID: 4009-21

Date Collected: 11/28/16 11:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 22:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 22:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 22:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 22:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 22:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 22:00	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 22:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 22:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 22:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 22:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 22:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 22:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 22:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 22:00	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 22:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 22:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 22:00	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 22:00	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 22:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 22:00	1
Acetone	10	U	10	3.0	ug/L			12/02/16 22:00	1
Benzene	19		1.0	0.41	ug/L			12/02/16 22:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 22:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 22:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 22:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 22:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 22:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 22:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 22:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 22:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 22:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 22:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 22:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 22:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 22:00	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-21

Date Collected: 11/28/16 11:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 22:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 22:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 22:00	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 22:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 22:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 22:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 22:00	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 22:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 22:00	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 22:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 22:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 22:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 22:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 22:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 22:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/02/16 22:00	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/02/16 22:00	1
Dibromofluoromethane (Surr)	102		75 - 123		12/02/16 22:00	1
Toluene-d8 (Surr)	100		80 - 120		12/02/16 22:00	1

Client Sample ID: 4009-22

Date Collected: 11/28/16 10:25

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 22:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 22:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 22:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 22:24	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 22:24	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 22:24	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 22:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 22:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 22:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 22:24	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 22:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 22:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 22:24	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 22:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 22:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 22:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 22:24	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 22:24	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 22:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 22:24	1
Acetone	10	U	10	3.0	ug/L			12/02/16 22:24	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-22

Date Collected: 11/28/16 10:25

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.1		1.0	0.41	ug/L			12/02/16 22:24	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 22:24	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 22:24	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 22:24	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 22:24	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 22:24	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 22:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 22:24	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 22:24	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 22:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 22:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 22:24	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 22:24	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 22:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 22:24	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 22:24	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 22:24	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 22:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 22:24	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 22:24	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 22:24	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 22:24	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 22:24	1
Toluene	1.3		1.0	0.51	ug/L			12/02/16 22:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 22:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 22:24	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 22:24	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 22:24	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 22:24	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/16 22:24	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/02/16 22:24	1
Dibromofluoromethane (Surr)	102		75 - 123		12/02/16 22:24	1
Toluene-d8 (Surr)	99		80 - 120		12/02/16 22:24	1

Client Sample ID: 4009-27S

Date Collected: 11/28/16 14:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	61		1.0	0.82	ug/L			12/02/16 22:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 22:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	2.6		1.0	0.31	ug/L			12/02/16 22:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 22:47	1
1,1-Dichloroethane	2.5		1.0	0.38	ug/L			12/02/16 22:47	1
1,1-Dichloroethene	8.8		1.0	0.29	ug/L			12/02/16 22:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-27S

Date Collected: 11/28/16 14:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 22:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 22:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 22:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 22:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 22:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 22:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 22:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 22:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 22:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 22:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 22:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 22:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 22:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 22:47	1
Acetone	10	U	10	3.0	ug/L			12/02/16 22:47	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 22:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 22:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 22:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 22:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 22:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 22:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 22:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 22:47	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 22:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 22:47	1
cis-1,2-Dichloroethene	23		1.0	0.81	ug/L			12/02/16 22:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 22:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 22:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 22:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 22:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 22:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 22:47	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 22:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 22:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 22:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 22:47	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 22:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 22:47	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 22:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 22:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 22:47	1
Trichloroethene	24		1.0	0.46	ug/L			12/02/16 22:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 22:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 22:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/02/16 22:47	1
4-Bromofluorobenzene (Surr)	94		73 - 120		12/02/16 22:47	1
Dibromofluoromethane (Surr)	103		75 - 123		12/02/16 22:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-27S

Date Collected: 11/28/16 14:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-16

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/02/16 22:47	1

Client Sample ID: 4009-27I

Date Collected: 11/28/16 14:05

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 23:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 23:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 23:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 23:10	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 23:10	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 23:10	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 23:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 23:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 23:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 23:10	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 23:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 23:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 23:10	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 23:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 23:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 23:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 23:10	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 23:10	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 23:10	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 23:10	1
Acetone	10	U	10	3.0	ug/L			12/02/16 23:10	1
Benzene	1.5		1.0	0.41	ug/L			12/02/16 23:10	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 23:10	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 23:10	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 23:10	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 23:10	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 23:10	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 23:10	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 23:10	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 23:10	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 23:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 23:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 23:10	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 23:10	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 23:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 23:10	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 23:10	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 23:10	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 23:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 23:10	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 23:10	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-27I

Lab Sample ID: 480-110191-17

Date Collected: 11/28/16 14:05

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 23:10	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 23:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 23:10	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 23:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 23:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 23:10	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 23:10	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 23:10	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 23:10	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/02/16 23:10	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/02/16 23:10	1
Dibromofluoromethane (Surr)	101		75 - 123		12/02/16 23:10	1
Toluene-d8 (Surr)	99		80 - 120		12/02/16 23:10	1

Client Sample ID: 4009-27D

Lab Sample ID: 480-110191-18

Date Collected: 11/28/16 14:00

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/16 23:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 23:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 23:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 23:33	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 23:33	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 23:33	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 23:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 23:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 23:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 23:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 23:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 23:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 23:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 23:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 23:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 23:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 23:33	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 23:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 23:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 23:33	1
Acetone	10	U	10	3.0	ug/L			12/02/16 23:33	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 23:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 23:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 23:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 23:33	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 23:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 23:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-110191-18

Date Collected: 11/28/16 14:00

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 23:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 23:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 23:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 23:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 23:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 23:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 23:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 23:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 23:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 23:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 23:33	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 23:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 23:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 23:33	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 23:33	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 23:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 23:33	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 23:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 23:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 23:33	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 23:33	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 23:33	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 23:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/02/16 23:33	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/02/16 23:33	1
Dibromofluoromethane (Surr)	100		75 - 123		12/02/16 23:33	1
Toluene-d8 (Surr)	99		80 - 120		12/02/16 23:33	1

Client Sample ID: 4009-28

Lab Sample ID: 480-110191-19

Date Collected: 11/28/16 10:15

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5		1.0	0.82	ug/L			12/02/16 23:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 23:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 23:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 23:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 23:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 23:56	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 23:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 23:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 23:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 23:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 23:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 23:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 23:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-28

Lab Sample ID: 480-110191-19

Date Collected: 11/28/16 10:15

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 23:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 23:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 23:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 23:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 23:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 23:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 23:56	1
Acetone	10	U	10	3.0	ug/L			12/02/16 23:56	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 23:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 23:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 23:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 23:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 23:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 23:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 23:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 23:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 23:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 23:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 23:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 23:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 23:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 23:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 23:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 23:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 23:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 23:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 23:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 23:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 23:56	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 23:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 23:56	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 23:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 23:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 23:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 23:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 23:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 23:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/02/16 23:56	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/02/16 23:56	1
Dibromofluoromethane (Surr)	101		75 - 123		12/02/16 23:56	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 23:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-110191-20

Date Collected: 11/28/16 13:45

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	23		2.0	1.6	ug/L			12/03/16 13:03	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			12/03/16 13:03	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			12/03/16 13:03	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			12/03/16 13:03	2
1,1-Dichloroethane	50		2.0	0.76	ug/L			12/03/16 13:03	2
1,1-Dichloroethene	3.2		2.0	0.58	ug/L			12/03/16 13:03	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			12/03/16 13:03	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			12/03/16 13:03	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:03	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			12/03/16 13:03	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			12/03/16 13:03	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:03	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			12/03/16 13:03	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			12/03/16 13:03	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:03	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:03	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			12/03/16 13:03	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			12/03/16 13:03	2
2-Hexanone	10	U	10	2.5	ug/L			12/03/16 13:03	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			12/03/16 13:03	2
Acetone	8.0	J	20	6.0	ug/L			12/03/16 13:03	2
Benzene	98		2.0	0.82	ug/L			12/03/16 13:03	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			12/03/16 13:03	2
Bromoform	2.0	U	2.0	0.52	ug/L			12/03/16 13:03	2
Bromomethane	2.0	U	2.0	1.4	ug/L			12/03/16 13:03	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			12/03/16 13:03	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			12/03/16 13:03	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:03	2
Chloroethane	2.0	U	2.0	0.64	ug/L			12/03/16 13:03	2
Chloroform	2.0	U	2.0	0.68	ug/L			12/03/16 13:03	2
Chloromethane	2.0	U	2.0	0.70	ug/L			12/03/16 13:03	2
cis-1,2-Dichloroethene	59		2.0	1.6	ug/L			12/03/16 13:03	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			12/03/16 13:03	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			12/03/16 13:03	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			12/03/16 13:03	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			12/03/16 13:03	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:03	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:03	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			12/03/16 13:03	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			12/03/16 13:03	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			12/03/16 13:03	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			12/03/16 13:03	2
Styrene	2.0	U	2.0	1.5	ug/L			12/03/16 13:03	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			12/03/16 13:03	2
Toluene	1.5	J	2.0	1.0	ug/L			12/03/16 13:03	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			12/03/16 13:03	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			12/03/16 13:03	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			12/03/16 13:03	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			12/03/16 13:03	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-29S

Date Collected: 11/28/16 13:45

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.5		2.0	1.8	ug/L			12/03/16 13:03	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			12/03/16 13:03	2

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					12/03/16 13:03	2
4-Bromofluorobenzene (Surr)	94		73 - 120					12/03/16 13:03	2
Dibromofluoromethane (Surr)	101		75 - 123					12/03/16 13:03	2
Toluene-d8 (Surr)	100		80 - 120					12/03/16 13:03	2

Client Sample ID: 4009-29I

Date Collected: 11/28/16 13:40

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 00:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 00:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 00:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 00:42	1
1,1-Dichloroethane	3.9		1.0	0.38	ug/L			12/03/16 00:42	1
1,1-Dichloroethene	1.1		1.0	0.29	ug/L			12/03/16 00:42	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 00:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 00:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 00:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 00:42	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 00:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 00:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 00:42	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 00:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 00:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 00:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 00:42	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 00:42	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 00:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 00:42	1
Acetone	5.0	J	10	3.0	ug/L			12/03/16 00:42	1
Benzene	110	E	1.0	0.41	ug/L			12/03/16 00:42	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 00:42	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 00:42	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 00:42	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 00:42	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 00:42	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 00:42	1
Chloroethane	28		1.0	0.32	ug/L			12/03/16 00:42	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 00:42	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 00:42	1
cis-1,2-Dichloroethene	39		1.0	0.81	ug/L			12/03/16 00:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 00:42	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 00:42	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 00:42	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-29I

Lab Sample ID: 480-110191-21

Date Collected: 11/28/16 13:40

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 00:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 00:42	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 00:42	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 00:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 00:42	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 00:42	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 00:42	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 00:42	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 00:42	1
Toluene	1.8		1.0	0.51	ug/L			12/03/16 00:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 00:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 00:42	1
Trichloroethene	2.1		1.0	0.46	ug/L			12/03/16 00:42	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 00:42	1
Vinyl chloride	1.7		1.0	0.90	ug/L			12/03/16 00:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/03/16 00:42	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/03/16 00:42	1
Dibromofluoromethane (Surr)	97		75 - 123		12/03/16 00:42	1
Toluene-d8 (Surr)	98		80 - 120		12/03/16 00:42	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	2.0	U	2.0	1.6	ug/L			12/03/16 13:26	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			12/03/16 13:26	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			12/03/16 13:26	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			12/03/16 13:26	2
1,1-Dichloroethane	3.9		2.0	0.76	ug/L			12/03/16 13:26	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			12/03/16 13:26	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			12/03/16 13:26	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			12/03/16 13:26	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:26	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			12/03/16 13:26	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			12/03/16 13:26	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:26	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			12/03/16 13:26	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			12/03/16 13:26	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:26	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:26	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			12/03/16 13:26	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			12/03/16 13:26	2
2-Hexanone	10	U	10	2.5	ug/L			12/03/16 13:26	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			12/03/16 13:26	2
Acetone	6.1	J	20	6.0	ug/L			12/03/16 13:26	2
Benzene	120		2.0	0.82	ug/L			12/03/16 13:26	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			12/03/16 13:26	2
Bromoform	2.0	U	2.0	0.52	ug/L			12/03/16 13:26	2
Bromomethane	2.0	U	2.0	1.4	ug/L			12/03/16 13:26	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-29I

Date Collected: 11/28/16 13:40

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	2.0	U	2.0	0.38	ug/L			12/03/16 13:26	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			12/03/16 13:26	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:26	2
Chloroethane	29		2.0	0.64	ug/L			12/03/16 13:26	2
Chloroform	2.0	U	2.0	0.68	ug/L			12/03/16 13:26	2
Chloromethane	2.0	U	2.0	0.70	ug/L			12/03/16 13:26	2
cis-1,2-Dichloroethene	41		2.0	1.6	ug/L			12/03/16 13:26	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			12/03/16 13:26	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			12/03/16 13:26	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			12/03/16 13:26	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			12/03/16 13:26	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:26	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:26	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			12/03/16 13:26	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			12/03/16 13:26	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			12/03/16 13:26	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			12/03/16 13:26	2
Styrene	2.0	U	2.0	1.5	ug/L			12/03/16 13:26	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			12/03/16 13:26	2
Toluene	1.7 J		2.0	1.0	ug/L			12/03/16 13:26	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			12/03/16 13:26	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			12/03/16 13:26	2
Trichloroethene	2.0		2.0	0.92	ug/L			12/03/16 13:26	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			12/03/16 13:26	2
Vinyl chloride	2.0		2.0	1.8	ug/L			12/03/16 13:26	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			12/03/16 13:26	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/03/16 13:26	2
4-Bromofluorobenzene (Surr)	92		73 - 120		12/03/16 13:26	2
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 13:26	2
Toluene-d8 (Surr)	98		80 - 120		12/03/16 13:26	2

Client Sample ID: 4009-29D

Date Collected: 11/28/16 13:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-22

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21		1.0	0.82	ug/L			12/03/16 01:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 01:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 01:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 01:05	1
1,1-Dichloroethane	6.3		1.0	0.38	ug/L			12/03/16 01:05	1
1,1-Dichloroethene	2.8		1.0	0.29	ug/L			12/03/16 01:05	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 01:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 01:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 01:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 01:05	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 01:05	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-110191-22

Date Collected: 11/28/16 13:35

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 01:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 01:05	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 01:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 01:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 01:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 01:05	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 01:05	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 01:05	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 01:05	1
Acetone	10	U	10	3.0	ug/L			12/03/16 01:05	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 01:05	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 01:05	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 01:05	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 01:05	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 01:05	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 01:05	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 01:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 01:05	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 01:05	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 01:05	1
cis-1,2-Dichloroethene	9.5		1.0	0.81	ug/L			12/03/16 01:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 01:05	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 01:05	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 01:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 01:05	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 01:05	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 01:05	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 01:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 01:05	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 01:05	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 01:05	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 01:05	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 01:05	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 01:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 01:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 01:05	1
Trichloroethene	1.7		1.0	0.46	ug/L			12/03/16 01:05	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 01:05	1
Vinyl chloride	15		1.0	0.90	ug/L			12/03/16 01:05	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 01:05	1
4-Bromofluorobenzene (Surr)	94		73 - 120		12/03/16 01:05	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 01:05	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 01:05	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-30

Date Collected: 11/28/16 12:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-23

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 01:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 01:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 01:29	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 01:29	1
1,1-Dichloroethane	0.93	J	1.0	0.38	ug/L			12/03/16 01:29	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 01:29	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 01:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 01:29	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 01:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 01:29	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 01:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 01:29	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 01:29	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 01:29	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 01:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 01:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 01:29	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 01:29	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 01:29	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 01:29	1
Acetone	10	U	10	3.0	ug/L			12/03/16 01:29	1
Benzene	1.0		1.0	0.41	ug/L			12/03/16 01:29	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 01:29	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 01:29	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 01:29	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 01:29	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 01:29	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 01:29	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 01:29	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 01:29	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 01:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 01:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 01:29	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 01:29	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 01:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 01:29	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 01:29	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 01:29	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 01:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 01:29	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 01:29	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 01:29	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 01:29	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 01:29	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 01:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 01:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 01:29	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 01:29	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 01:29	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-30

Date Collected: 11/28/16 12:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-23

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 01:29	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/03/16 01:29	1
4-Bromofluorobenzene (Surr)	91		73 - 120		12/03/16 01:29	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 01:29	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 01:29	1

Client Sample ID: 4009-30A

Date Collected: 11/28/16 12:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-24

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 01:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 01:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 01:52	1
1,1-Dichloroethane	0.63	J	1.0	0.38	ug/L			12/03/16 01:52	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 01:52	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 01:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 01:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 01:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 01:52	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 01:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 01:52	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 01:52	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 01:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 01:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 01:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 01:52	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 01:52	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 01:52	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 01:52	1
Acetone	10	U	10	3.0	ug/L			12/03/16 01:52	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 01:52	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 01:52	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 01:52	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 01:52	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 01:52	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 01:52	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 01:52	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 01:52	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 01:52	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 01:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 01:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 01:52	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 01:52	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 01:52	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-30A

Date Collected: 11/28/16 12:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-24

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 01:52	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 01:52	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 01:52	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 01:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 01:52	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 01:52	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 01:52	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 01:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 01:52	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 01:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 01:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 01:52	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 01:52	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 01:52	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 01:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/03/16 01:52	1
4-Bromofluorobenzene (Surr)	93		73 - 120		12/03/16 01:52	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 01:52	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 01:52	1

Client Sample ID: 4009-11A

Date Collected: 11/28/16 14:55

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 02:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 02:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 02:15	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 02:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 02:15	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 02:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 02:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 02:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 02:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 02:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 02:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 02:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 02:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 02:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 02:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 02:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 02:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 02:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 02:15	1
Acetone	10	U	10	3.0	ug/L			12/03/16 02:15	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-11A

Lab Sample ID: 480-110191-25

Date Collected: 11/28/16 14:55

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 02:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 02:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 02:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 02:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 02:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 02:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 02:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 02:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 02:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 02:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 02:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 02:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 02:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 02:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 02:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 02:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 02:15	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 02:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 02:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 02:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 02:15	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 02:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 02:15	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 02:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 02:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 02:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 02:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 02:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 02:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/03/16 02:15	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/03/16 02:15	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 02:15	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 02:15	1

Client Sample ID: DUP-1

Lab Sample ID: 480-110191-26

Date Collected: 11/28/16 00:00

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 02:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 02:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 02:38	1
1,1-Dichloroethane	3.1		1.0	0.38	ug/L			12/03/16 02:38	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 02:38	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 02:38	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: DUP-1

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 02:38	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 02:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 02:38	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 02:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 02:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 02:38	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 02:38	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 02:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 02:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 02:38	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 02:38	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 02:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 02:38	1
Acetone	10	U	10	3.0	ug/L			12/03/16 02:38	1
Benzene	9.5		1.0	0.41	ug/L			12/03/16 02:38	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 02:38	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 02:38	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 02:38	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 02:38	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 02:38	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 02:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 02:38	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 02:38	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 02:38	1
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L			12/03/16 02:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 02:38	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 02:38	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 02:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 02:38	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 02:38	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 02:38	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 02:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 02:38	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 02:38	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 02:38	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 02:38	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 02:38	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 02:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 02:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 02:38	1
Trichloroethene	0.62	J	1.0	0.46	ug/L			12/03/16 02:38	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 02:38	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 02:38	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/03/16 02:38	1
4-Bromofluorobenzene (Surr)	94		73 - 120		12/03/16 02:38	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 02:38	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 02:38	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: DUP-2

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			12/03/16 13:49	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			12/03/16 13:49	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62	ug/L			12/03/16 13:49	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			12/03/16 13:49	2
1,1-Dichloroethane	4.0		2.0	0.76	ug/L			12/03/16 13:49	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			12/03/16 13:49	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			12/03/16 13:49	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			12/03/16 13:49	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:49	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			12/03/16 13:49	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			12/03/16 13:49	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:49	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			12/03/16 13:49	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			12/03/16 13:49	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:49	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:49	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			12/03/16 13:49	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			12/03/16 13:49	2
2-Hexanone	10	U	10	2.5	ug/L			12/03/16 13:49	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			12/03/16 13:49	2
Acetone	20	U	20	6.0	ug/L			12/03/16 13:49	2
Benzene	110		2.0	0.82	ug/L			12/03/16 13:49	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			12/03/16 13:49	2
Bromoform	2.0	U	2.0	0.52	ug/L			12/03/16 13:49	2
Bromomethane	2.0	U	2.0	1.4	ug/L			12/03/16 13:49	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			12/03/16 13:49	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			12/03/16 13:49	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:49	2
Chloroethane	27		2.0	0.64	ug/L			12/03/16 13:49	2
Chloroform	2.0	U	2.0	0.68	ug/L			12/03/16 13:49	2
Chloromethane	2.0	U	2.0	0.70	ug/L			12/03/16 13:49	2
cis-1,2-Dichloroethene	41		2.0	1.6	ug/L			12/03/16 13:49	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			12/03/16 13:49	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			12/03/16 13:49	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			12/03/16 13:49	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			12/03/16 13:49	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			12/03/16 13:49	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			12/03/16 13:49	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			12/03/16 13:49	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			12/03/16 13:49	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			12/03/16 13:49	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			12/03/16 13:49	2
Styrene	2.0	U	2.0	1.5	ug/L			12/03/16 13:49	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			12/03/16 13:49	2
Toluene	1.7 J		2.0	1.0	ug/L			12/03/16 13:49	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			12/03/16 13:49	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			12/03/16 13:49	2
Trichloroethene	2.1		2.0	0.92	ug/L			12/03/16 13:49	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			12/03/16 13:49	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: DUP-2

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2.0	U	2.0	1.8	ug/L			12/03/16 13:49	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			12/03/16 13:49	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/03/16 13:49	2
4-Bromofluorobenzene (Surr)	93		73 - 120		12/03/16 13:49	2
Dibromofluoromethane (Surr)	101		75 - 123		12/03/16 13:49	2
Toluene-d8 (Surr)	100		80 - 120		12/03/16 13:49	2

Client Sample ID: FIELD BLANK

Date Collected: 11/28/16 15:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 03:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 03:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 03:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 03:24	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 03:24	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 03:24	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 03:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 03:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 03:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 03:24	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 03:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 03:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 03:24	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 03:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 03:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 03:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 03:24	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 03:24	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 03:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 03:24	1
Acetone	10	U	10	3.0	ug/L			12/03/16 03:24	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 03:24	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 03:24	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 03:24	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 03:24	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 03:24	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 03:24	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 03:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 03:24	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 03:24	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 03:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 03:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 03:24	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 03:24	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 03:24	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-110191-28

Date Collected: 11/28/16 15:35

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 03:24	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 03:24	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 03:24	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 03:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 03:24	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 03:24	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 03:24	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 03:24	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 03:24	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 03:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 03:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 03:24	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 03:24	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 03:24	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 03:24	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/03/16 03:24	1
4-Bromofluorobenzene (Surr)	93		73 - 120		12/03/16 03:24	1
Dibromofluoromethane (Surr)	101		75 - 123		12/03/16 03:24	1
Toluene-d8 (Surr)	100		80 - 120		12/03/16 03:24	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110191-29

Date Collected: 11/28/16 00:00

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 03:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 03:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 03:47	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 03:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 03:47	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 03:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 03:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 03:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 03:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 03:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 03:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 03:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 03:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 03:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 03:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 03:47	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 03:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 03:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 03:47	1
Acetone	10	U	10	3.0	ug/L			12/03/16 03:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110191-29

Date Collected: 11/28/16 00:00

Matrix: Water

Date Received: 11/30/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 03:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 03:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 03:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 03:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 03:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 03:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 03:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 03:47	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 03:47	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 03:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 03:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 03:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 03:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 03:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 03:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 03:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 03:47	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 03:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 03:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 03:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 03:47	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 03:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 03:47	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 03:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 03:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 03:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 03:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 03:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 03:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/03/16 03:47	1
4-Bromofluorobenzene (Surr)	94		73 - 120		12/03/16 03:47	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 03:47	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 03:47	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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 (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-110191-1	WELL 1-1	102	95	101	100
480-110191-2	4009-9	100	96	100	101
480-110191-3	4009-10	101	97	103	101
480-110191-4	4009-11	100	97	100	101
480-110191-5	4009-12	102	97	101	103
480-110191-6	4009-13	102	93	100	100
480-110191-7	4009-13A	99	96	100	102
480-110191-8	4009-14	103	96	103	101
480-110191-8 MS	4009-14	102	92	100	100
480-110191-8 MSD	4009-14	103	94	102	100
480-110191-9	4009-15	102	94	102	101
480-110191-10	4009-16	104	95	102	102
480-110191-11	4009-16A	100	95	101	102
480-110191-12	4009-18	103	95	101	102
480-110191-13	4009-19	106	94	103	101
480-110191-14	4009-21	103	92	102	100
480-110191-15	4009-22	100	97	102	99
480-110191-16	4009-27S	101	94	103	100
480-110191-17	4009-27I	102	92	101	99
480-110191-17 MS	4009-27I	104	95	99	101
480-110191-17 MSD	4009-27I	104	96	102	102
480-110191-18	4009-27D	97	92	100	99
480-110191-19	4009-28	102	95	101	101
480-110191-20	4009-29S	101	94	101	100
480-110191-21	4009-29I	98	92	97	98
480-110191-21 - DL	4009-29I	100	92	100	98
480-110191-22	4009-29D	102	94	102	99
480-110191-23	4009-30	101	91	100	99
480-110191-24	4009-30A	105	93	100	101
480-110191-25	4009-11A	104	95	100	101
480-110191-26	DUP-1	104	94	102	99
480-110191-27	DUP-2	100	93	101	100
480-110191-28	FIELD BLANK	105	93	101	100
480-110191-29	TRIP BLANK	101	94	100	101
LCS 480-334403/5	Lab Control Sample	102	94	100	100
LCS 480-334536/4	Lab Control Sample	104	90	101	99
LCS 480-334565/7	Lab Control Sample	102	93	98	100
MB 480-334403/7	Method Blank	100	95	102	100
MB 480-334536/6	Method Blank	100	93	98	101
MB 480-334565/6	Method Blank	102	92	102	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: MB 480-334403/7

Matrix: Water

Analysis Batch: 334403

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	1.0	U	1.0	0.82	ug/L			12/02/16 10:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 10:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 10:58	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 10:58	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 10:58	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 10:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 10:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 10:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 10:58	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 10:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 10:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 10:58	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 10:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 10:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 10:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 10:58	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 10:58	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 10:58	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 10:58	1
Acetone	10	U	10	3.0	ug/L			12/02/16 10:58	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 10:58	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 10:58	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 10:58	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 10:58	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 10:58	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 10:58	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 10:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 10:58	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 10:58	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 10:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 10:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 10:58	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 10:58	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 10:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 10:58	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 10:58	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 10:58	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 10:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 10:58	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 10:58	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 10:58	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 10:58	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 10:58	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 10:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 10:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 10:58	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 10:58	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: MB 480-334403/7

Matrix: Water

Analysis Batch: 334403

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 10:58	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 10:58	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/16 10:58	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/02/16 10:58	1
Dibromofluoromethane (Surr)	102		75 - 123		12/02/16 10:58	1
Toluene-d8 (Surr)	100		80 - 120		12/02/16 10:58	1

Lab Sample ID: LCS 480-334403/5

Matrix: Water

Analysis Batch: 334403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.0		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.2		ug/L		81	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	22.4		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	22.5		ug/L		90	66 - 127
1,2,3-Trimethylbenzene	25.0	26.3		ug/L		105	78 - 120
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		103	79 - 122
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	56 - 134
1,2-Dibromoethane	25.0	24.3		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	22.2		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	24.0		ug/L		96	76 - 120
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		97	77 - 121
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 120
2-Butanone (MEK)	125	109		ug/L		87	57 - 140
2-Hexanone	125	108		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	108		ug/L		86	56 - 142
Benzene	25.0	22.6		ug/L		90	71 - 124
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122
Bromoform	25.0	25.7		ug/L		103	61 - 132
Bromomethane	25.0	21.3		ug/L		85	55 - 144
Carbon disulfide	25.0	19.5		ug/L		78	59 - 134
Carbon tetrachloride	25.0	21.9		ug/L		88	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	23.0		ug/L		92	73 - 127
Chloromethane	25.0	19.7		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: LCS 480-334403/5

Matrix: Water

Analysis Batch: 334403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124
Cyclohexane	25.0	21.2		ug/L		85	59 - 135
Dibromochloromethane	25.0	24.9		ug/L		100	75 - 125
Dichlorodifluoromethane	25.0	15.3		ug/L		61	59 - 135
Ethylbenzene	25.0	22.1		ug/L		89	77 - 123
Isopropylbenzene	25.0	24.0		ug/L		96	77 - 122
Methyl acetate	125	108		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120
Methylcyclohexane	25.0	22.1		ug/L		88	68 - 134
Methylene Chloride	25.0	22.6		ug/L		91	75 - 124
Styrene	25.0	23.0		ug/L		92	80 - 120
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122
Toluene	25.0	22.6		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	80 - 120
Trichloroethene	25.0	22.6		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	20.8		ug/L		83	62 - 150
Vinyl chloride	25.0	22.1		ug/L		88	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 480-334536/6

Matrix: Water

Analysis Batch: 334536

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	1.0	U	1.0	0.82	ug/L			12/02/16 21:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/16 21:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/16 21:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/16 21:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/16 21:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/02/16 21:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/16 21:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/02/16 21:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/16 21:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/16 21:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/16 21:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/16 21:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/16 21:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/02/16 21:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/16 21:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/16 21:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/02/16 21:22	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: MB 480-334536/6

Matrix: Water

Analysis Batch: 334536

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/16 21:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/16 21:22	1
Acetone	10	U	10	3.0	ug/L			12/02/16 21:22	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/16 21:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/16 21:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/16 21:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/16 21:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/16 21:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/16 21:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/16 21:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/16 21:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/16 21:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/16 21:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/16 21:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/16 21:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/16 21:22	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/16 21:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/16 21:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/16 21:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/16 21:22	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/16 21:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/16 21:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/16 21:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/16 21:22	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/16 21:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/16 21:22	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/16 21:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/16 21:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/16 21:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/16 21:22	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/16 21:22	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/16 21:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/16 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/16 21:22	1
4-Bromofluorobenzene (Surr)	93		73 - 120		12/02/16 21:22	1
Dibromofluoromethane (Surr)	98		75 - 123		12/02/16 21:22	1
Toluene-d8 (Surr)	101		80 - 120		12/02/16 21:22	1

Lab Sample ID: LCS 480-334536/4

Matrix: Water

Analysis Batch: 334536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	73 - 126
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	76 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: LCS 480-334536/4

Matrix: Water

Analysis Batch: 334536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.3		ug/L		93	61 - 148
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	24.1		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2,3-Trimethylbenzene	25.0	26.4		ug/L		106	78 - 120
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	79 - 122
1,2,4-Trimethylbenzene	25.0	25.5		ug/L		102	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		100	56 - 134
1,2-Dibromoethane	25.0	24.4		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	77 - 121
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 120
2-Butanone (MEK)	125	117		ug/L		94	57 - 140
2-Hexanone	125	105		ug/L		84	65 - 127
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		85	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	24.2		ug/L		97	80 - 122
Bromoform	25.0	25.2		ug/L		101	61 - 132
Bromomethane	25.0	22.3		ug/L		89	55 - 144
Carbon disulfide	25.0	21.8		ug/L		87	59 - 134
Carbon tetrachloride	25.0	25.9		ug/L		103	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chloroethane	25.0	26.5		ug/L		106	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	19.5		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	74 - 124
Cyclohexane	25.0	24.6		ug/L		99	59 - 135
Dibromochloromethane	25.0	25.4		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	15.4		ug/L		62	59 - 135
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	125	108		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120
Methylcyclohexane	25.0	25.1		ug/L		100	68 - 134
Methylene Chloride	25.0	22.6		ug/L		90	75 - 124
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	24.8		ug/L		99	74 - 122
Toluene	25.0	23.9		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.4		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	24.9		ug/L		99	80 - 120
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	23.5		ug/L		94	62 - 150

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: LCS 480-334536/4

Matrix: Water

Analysis Batch: 334536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	25.0	23.8		ug/L		95	65 - 133
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	104		77 - 120				
4-Bromofluorobenzene (Surr)	90		73 - 120				
Dibromofluoromethane (Surr)	101		75 - 123				
Toluene-d8 (Surr)	99		80 - 120				

Lab Sample ID: 480-110191-8 MS

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	25.0	29.9		ug/L		120	73 - 126
1,1,2,2-Tetrachloroethane	1.0	U	25.0	26.8		ug/L		107	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	26.0		ug/L		104	61 - 148
1,1,2-Trichloroethane	1.0	U	25.0	26.5		ug/L		106	76 - 122
1,1-Dichloroethane	1.0	U	25.0	27.5		ug/L		110	77 - 120
1,1-Dichloroethene	1.0	U	25.0	29.6		ug/L		118	66 - 127
1,2,3-Trimethylbenzene	1.0	U	25.0	26.2		ug/L		105	78 - 120
1,2,4-Trichlorobenzene	1.0	U	25.0	25.7		ug/L		103	79 - 122
1,2,4-Trimethylbenzene	1.0	U	25.0	27.6		ug/L		110	76 - 121
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	26.5		ug/L		106	56 - 134
1,2-Dibromoethane	1.0	U	25.0	26.3		ug/L		105	77 - 120
1,2-Dichlorobenzene	1.0	U	25.0	27.0		ug/L		108	80 - 124
1,2-Dichloroethane	1.0	U	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	1.0	U	25.0	27.4		ug/L		110	76 - 120
1,3,5-Trimethylbenzene	1.0	U	25.0	28.0		ug/L		112	77 - 121
1,3-Dichlorobenzene	1.0	U	25.0	27.7		ug/L		111	77 - 120
1,4-Dichlorobenzene	1.0	U	25.0	26.9		ug/L		108	78 - 124
2-Butanone (MEK)	10	U	125	107		ug/L		86	57 - 140
2-Hexanone	5.0	U	125	108		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	5.0	U	125	114		ug/L		91	71 - 125
Acetone	10	U	125	101		ug/L		81	56 - 142
Benzene	17		25.0	43.2		ug/L		106	71 - 124
Bromodichloromethane	1.0	U	25.0	26.7		ug/L		107	80 - 122
Bromoform	1.0	U	25.0	27.1		ug/L		108	61 - 132
Bromomethane	1.0	U	25.0	23.8		ug/L		95	55 - 144
Carbon disulfide	1.0	U	25.0	23.9		ug/L		96	59 - 134
Carbon tetrachloride	1.0	U	25.0	30.1		ug/L		120	72 - 134
Chlorobenzene	1.0	U	25.0	27.2		ug/L		109	80 - 120
Chloroethane	1.0	U	25.0	27.1		ug/L		108	69 - 136
Chloroform	1.0	U	25.0	27.4		ug/L		109	73 - 127
Chloromethane	1.0	U	25.0	20.3		ug/L		81	68 - 124
cis-1,2-Dichloroethene	1.0	U	25.0	28.8		ug/L		115	74 - 124
cis-1,3-Dichloropropene	1.0	U	25.0	26.8		ug/L		107	74 - 124
Cyclohexane	1.0	U	25.0	27.9		ug/L		112	59 - 135

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: 480-110191-8 MS

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	1.0	U	25.0	27.2		ug/L		109	75 - 125
Dichlorodifluoromethane	1.0	U	25.0	14.1	*	ug/L		56	59 - 135
Ethylbenzene	1.0	U	25.0	27.1		ug/L		108	77 - 123
Isopropylbenzene	1.0	U	25.0	28.0		ug/L		112	77 - 122
Methyl acetate	2.5	U	125	108		ug/L		87	74 - 133
Methyl tert-butyl ether	1.0	U	25.0	24.5		ug/L		98	77 - 120
Methylcyclohexane	1.0	U	25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	1.0	U	25.0	25.4		ug/L		102	75 - 124
Styrene	1.0	U	25.0	27.2		ug/L		109	80 - 120
Tetrachloroethene	1.0	U	25.0	28.1		ug/L		112	74 - 122
Toluene	1.0	U	25.0	28.2		ug/L		113	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	28.9		ug/L		116	73 - 127
trans-1,3-Dichloropropene	1.0	U	25.0	26.1		ug/L		104	80 - 120
Trichloroethene	1.0	U	25.0	28.2		ug/L		113	74 - 123
Trichlorofluoromethane	1.0	U	25.0	23.2		ug/L		93	62 - 150
Vinyl chloride	1.0	U	25.0	24.5		ug/L		98	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-110191-8 MSD

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	25.0	28.7		ug/L		115	73 - 126	4	15
1,1,2,2-Tetrachloroethane	1.0	U	25.0	26.3		ug/L		105	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	25.2		ug/L		101	61 - 148	3	20
1,1,2-Trichloroethane	1.0	U	25.0	25.9		ug/L		103	76 - 122	2	15
1,1-Dichloroethane	1.0	U	25.0	26.9		ug/L		108	77 - 120	2	20
1,1-Dichloroethene	1.0	U	25.0	28.8		ug/L		115	66 - 127	3	16
1,2,3-Trimethylbenzene	1.0	U	25.0	26.4		ug/L		106	78 - 120	1	20
1,2,4-Trichlorobenzene	1.0	U	25.0	25.6		ug/L		102	79 - 122	1	20
1,2,4-Trimethylbenzene	1.0	U	25.0	27.7		ug/L		111	76 - 121	0	20
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	27.6		ug/L		110	56 - 134	4	15
1,2-Dibromoethane	1.0	U	25.0	25.2		ug/L		101	77 - 120	4	15
1,2-Dichlorobenzene	1.0	U	25.0	26.7		ug/L		107	80 - 124	1	20
1,2-Dichloroethane	1.0	U	25.0	24.4		ug/L		98	75 - 120	2	20
1,2-Dichloropropane	1.0	U	25.0	26.9		ug/L		108	76 - 120	2	20
1,3,5-Trimethylbenzene	1.0	U	25.0	27.9		ug/L		112	77 - 121	0	20
1,3-Dichlorobenzene	1.0	U	25.0	27.4		ug/L		110	77 - 120	1	20
1,4-Dichlorobenzene	1.0	U	25.0	26.1		ug/L		105	78 - 124	3	20
2-Butanone (MEK)	10	U	125	109		ug/L		87	57 - 140	2	20
2-Hexanone	5.0	U	125	104		ug/L		83	65 - 127	4	15

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: 480-110191-8 MSD

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	5.0	U	125	111		ug/L		89	71 - 125	3	35
Acetone	10	U	125	99.4		ug/L		80	56 - 142	1	15
Benzene	17		25.0	42.4		ug/L		102	71 - 124	2	13
Bromodichloromethane	1.0	U	25.0	26.1		ug/L		105	80 - 122	2	15
Bromoform	1.0	U	25.0	26.4		ug/L		106	61 - 132	3	15
Bromomethane	1.0	U	25.0	22.9		ug/L		92	55 - 144	4	15
Carbon disulfide	1.0	U	25.0	22.5		ug/L		90	59 - 134	6	15
Carbon tetrachloride	1.0	U	25.0	29.6		ug/L		118	72 - 134	2	15
Chlorobenzene	1.0	U	25.0	26.2		ug/L		105	80 - 120	4	25
Chloroethane	1.0	U	25.0	26.7		ug/L		107	69 - 136	1	15
Chloroform	1.0	U	25.0	26.4		ug/L		106	73 - 127	3	20
Chloromethane	1.0	U	25.0	19.6		ug/L		79	68 - 124	3	15
cis-1,2-Dichloroethene	1.0	U	25.0	28.0		ug/L		112	74 - 124	3	15
cis-1,3-Dichloropropene	1.0	U	25.0	26.5		ug/L		106	74 - 124	1	15
Cyclohexane	1.0	U	25.0	27.3		ug/L		109	59 - 135	2	20
Dibromochloromethane	1.0	U	25.0	26.6		ug/L		106	75 - 125	2	15
Dichlorodifluoromethane	1.0	U	25.0	13.3 *		ug/L		53	59 - 135	6	20
Ethylbenzene	1.0	U	25.0	26.3		ug/L		105	77 - 123	3	15
Isopropylbenzene	1.0	U	25.0	28.3		ug/L		113	77 - 122	1	20
Methyl acetate	2.5	U	125	107		ug/L		85	74 - 133	1	20
Methyl tert-butyl ether	1.0	U	25.0	24.6		ug/L		98	77 - 120	0	37
Methylcyclohexane	1.0	U	25.0	27.0		ug/L		108	68 - 134	3	20
Methylene Chloride	1.0	U	25.0	24.4		ug/L		98	75 - 124	4	15
Styrene	1.0	U	25.0	26.1		ug/L		104	80 - 120	4	20
Tetrachloroethene	1.0	U	25.0	27.1		ug/L		108	74 - 122	4	20
Toluene	1.0	U	25.0	27.0		ug/L		108	80 - 122	5	15
trans-1,2-Dichloroethene	1.0	U	25.0	28.0		ug/L		112	73 - 127	3	20
trans-1,3-Dichloropropene	1.0	U	25.0	25.5		ug/L		102	80 - 120	2	15
Trichloroethene	1.0	U	25.0	27.6		ug/L		110	74 - 123	2	16
Trichlorofluoromethane	1.0	U	25.0	23.0		ug/L		92	62 - 150	1	20
Vinyl chloride	1.0	U	25.0	23.9		ug/L		96	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-110191-17 MS

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-271

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	25.0	28.9		ug/L		116	73 - 126
1,1,2,2-Tetrachloroethane	1.0	U	25.0	25.3		ug/L		101	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	25.4		ug/L		102	61 - 148
1,1,2-Trichloroethane	1.0	U	25.0	25.5		ug/L		102	76 - 122

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: 480-110191-17 MS

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-271

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	1.0	U	25.0	26.1		ug/L		105	77 - 120
1,1-Dichloroethene	1.0	U	25.0	27.4		ug/L		109	66 - 127
1,2,3-Trimethylbenzene	1.0	U	25.0	26.1		ug/L		104	78 - 120
1,2,4-Trichlorobenzene	1.0	U	25.0	24.6		ug/L		98	79 - 122
1,2,4-Trimethylbenzene	1.0	U	25.0	26.2		ug/L		105	76 - 121
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	26.1		ug/L		104	56 - 134
1,2-Dibromoethane	1.0	U	25.0	24.9		ug/L		100	77 - 120
1,2-Dichlorobenzene	1.0	U	25.0	25.5		ug/L		102	80 - 124
1,2-Dichloroethane	1.0	U	25.0	23.9		ug/L		96	75 - 120
1,2-Dichloropropane	1.0	U	25.0	26.1		ug/L		105	76 - 120
1,3,5-Trimethylbenzene	1.0	U	25.0	26.3		ug/L		105	77 - 121
1,3-Dichlorobenzene	1.0	U	25.0	26.2		ug/L		105	77 - 120
1,4-Dichlorobenzene	1.0	U	25.0	25.2		ug/L		101	78 - 124
2-Butanone (MEK)	10	U	125	107		ug/L		85	57 - 140
2-Hexanone	5.0	U	125	100		ug/L		80	65 - 127
4-Methyl-2-pentanone (MIBK)	5.0	U	125	108		ug/L		87	71 - 125
Acetone	10	U	125	98.2		ug/L		79	56 - 142
Benzene	1.5		25.0	27.6		ug/L		105	71 - 124
Bromodichloromethane	1.0	U	25.0	25.4		ug/L		102	80 - 122
Bromoform	1.0	U	25.0	26.1		ug/L		104	61 - 132
Bromomethane	1.0	U	25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	1.0	U	25.0	22.3		ug/L		89	59 - 134
Carbon tetrachloride	1.0	U	25.0	28.8		ug/L		115	72 - 134
Chlorobenzene	1.0	U	25.0	24.9		ug/L		100	80 - 120
Chloroethane	1.0	U	25.0	26.5		ug/L		106	69 - 136
Chloroform	1.0	U	25.0	25.9		ug/L		104	73 - 127
Chloromethane	1.0	U	25.0	19.0		ug/L		76	68 - 124
cis-1,2-Dichloroethene	1.0	U	25.0	27.2		ug/L		109	74 - 124
cis-1,3-Dichloropropene	1.0	U	25.0	25.8		ug/L		103	74 - 124
Cyclohexane	1.0	U	25.0	27.6		ug/L		110	59 - 135
Dibromochloromethane	1.0	U	25.0	26.1		ug/L		104	75 - 125
Dichlorodifluoromethane	1.0	U	25.0	12.5	*	ug/L		50	59 - 135
Ethylbenzene	1.0	U	25.0	25.7		ug/L		103	77 - 123
Isopropylbenzene	1.0	U	25.0	26.8		ug/L		107	77 - 122
Methyl acetate	2.5	U	125	105		ug/L		84	74 - 133
Methyl tert-butyl ether	1.0	U	25.0	24.3		ug/L		97	77 - 120
Methylcyclohexane	1.0	U	25.0	26.8		ug/L		107	68 - 134
Methylene Chloride	1.0	U	25.0	24.3		ug/L		97	75 - 124
Styrene	1.0	U	25.0	25.1		ug/L		101	80 - 120
Tetrachloroethene	1.0	U	25.0	26.8		ug/L		107	74 - 122
Toluene	1.0	U	25.0	25.6		ug/L		103	80 - 122
trans-1,2-Dichloroethene	1.0	U	25.0	27.2		ug/L		109	73 - 127
trans-1,3-Dichloropropene	1.0	U	25.0	25.5		ug/L		102	80 - 120
Trichloroethene	1.0	U	25.0	27.4		ug/L		110	74 - 123
Trichlorofluoromethane	1.0	U	25.0	22.7		ug/L		91	62 - 150
Vinyl chloride	1.0	U	25.0	23.9		ug/L		96	65 - 133

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: 480-110191-17 MS

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-271

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 480-110191-17 MSD

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-271

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	25.0	27.5		ug/L		110	73 - 126	5	15
1,1,2,2-Tetrachloroethane	1.0	U	25.0	24.6		ug/L		99	76 - 120	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	24.6		ug/L		98	61 - 148	3	20
1,1,2-Trichloroethane	1.0	U	25.0	25.8		ug/L		103	76 - 122	1	15
1,1-Dichloroethane	1.0	U	25.0	25.5		ug/L		102	77 - 120	3	20
1,1-Dichloroethene	1.0	U	25.0	28.0		ug/L		112	66 - 127	2	16
1,2,3-Trimethylbenzene	1.0	U	25.0	26.3		ug/L		105	78 - 120	1	20
1,2,4-Trichlorobenzene	1.0	U	25.0	24.7		ug/L		99	79 - 122	0	20
1,2,4-Trimethylbenzene	1.0	U	25.0	25.8		ug/L		103	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	25.2		ug/L		101	56 - 134	3	15
1,2-Dibromoethane	1.0	U	25.0	24.3		ug/L		97	77 - 120	2	15
1,2-Dichlorobenzene	1.0	U	25.0	25.2		ug/L		101	80 - 124	1	20
1,2-Dichloroethane	1.0	U	25.0	23.2		ug/L		93	75 - 120	3	20
1,2-Dichloropropane	1.0	U	25.0	25.4		ug/L		101	76 - 120	3	20
1,3,5-Trimethylbenzene	1.0	U	25.0	25.9		ug/L		104	77 - 121	1	20
1,3-Dichlorobenzene	1.0	U	25.0	25.9		ug/L		104	77 - 120	1	20
1,4-Dichlorobenzene	1.0	U	25.0	25.1		ug/L		100	78 - 124	0	20
2-Butanone (MEK)	10	U	125	104		ug/L		83	57 - 140	3	20
2-Hexanone	5.0	U	125	102		ug/L		82	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	5.0	U	125	108		ug/L		87	71 - 125	0	35
Acetone	10	U	125	96.1		ug/L		77	56 - 142	2	15
Benzene	1.5		25.0	26.7		ug/L		101	71 - 124	3	13
Bromodichloromethane	1.0	U	25.0	24.5		ug/L		98	80 - 122	4	15
Bromoform	1.0	U	25.0	26.4		ug/L		106	61 - 132	1	15
Bromomethane	1.0	U	25.0	24.3		ug/L		97	55 - 144	6	15
Carbon disulfide	1.0	U	25.0	22.0		ug/L		88	59 - 134	2	15
Carbon tetrachloride	1.0	U	25.0	28.6		ug/L		114	72 - 134	1	15
Chlorobenzene	1.0	U	25.0	25.3		ug/L		101	80 - 120	2	25
Chloroethane	1.0	U	25.0	27.1		ug/L		108	69 - 136	2	15
Chloroform	1.0	U	25.0	25.1		ug/L		100	73 - 127	3	20
Chloromethane	1.0	U	25.0	19.9		ug/L		80	68 - 124	4	15
cis-1,2-Dichloroethene	1.0	U	25.0	26.8		ug/L		107	74 - 124	1	15
cis-1,3-Dichloropropene	1.0	U	25.0	25.3		ug/L		101	74 - 124	2	15
Cyclohexane	1.0	U	25.0	26.4		ug/L		106	59 - 135	4	20
Dibromochloromethane	1.0	U	25.0	25.8		ug/L		103	75 - 125	1	15
Dichlorodifluoromethane	1.0	U	25.0	12.9	*	ug/L		52	59 - 135	4	20
Ethylbenzene	1.0	U	25.0	25.6		ug/L		102	77 - 123	1	15

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: 480-110191-17 MSD

Matrix: Water

Analysis Batch: 334536

Client Sample ID: 4009-271

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	1.0	U	25.0	26.3		ug/L		105	77 - 122	2	20
Methyl acetate	2.5	U	125	101		ug/L		81	74 - 133	4	20
Methyl tert-butyl ether	1.0	U	25.0	23.5		ug/L		94	77 - 120	3	37
Methylcyclohexane	1.0	U	25.0	26.0		ug/L		104	68 - 134	3	20
Methylene Chloride	1.0	U	25.0	23.8		ug/L		95	75 - 124	2	15
Styrene	1.0	U	25.0	25.2		ug/L		101	80 - 120	0	20
Tetrachloroethene	1.0	U	25.0	26.6		ug/L		107	74 - 122	1	20
Toluene	1.0	U	25.0	25.9		ug/L		103	80 - 122	1	15
trans-1,2-Dichloroethene	1.0	U	25.0	27.2		ug/L		109	73 - 127	0	20
trans-1,3-Dichloropropene	1.0	U	25.0	25.1		ug/L		100	80 - 120	2	15
Trichloroethene	1.0	U	25.0	26.0		ug/L		104	74 - 123	5	16
Trichlorofluoromethane	1.0	U	25.0	24.3		ug/L		97	62 - 150	7	20
Vinyl chloride	1.0	U	25.0	24.3		ug/L		97	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 480-334565/6

Matrix: Water

Analysis Batch: 334565

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	1.0	U	1.0	0.82	ug/L			12/03/16 11:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 11:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 11:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 11:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 11:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 11:49	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 11:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 11:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 11:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 11:49	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 11:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 11:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 11:49	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 11:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 11:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 11:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 11:49	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 11:49	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 11:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 11:49	1
Acetone	10	U	10	3.0	ug/L			12/03/16 11:49	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 11:49	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 11:49	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: MB 480-334565/6

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 11:49	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 11:49	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 11:49	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 11:49	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 11:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 11:49	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 11:49	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 11:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 11:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 11:49	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 11:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 11:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 11:49	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 11:49	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 11:49	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 11:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 11:49	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 11:49	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 11:49	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 11:49	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 11:49	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 11:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 11:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 11:49	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 11:49	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 11:49	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 11:49	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 11:49	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/03/16 11:49	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 11:49	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 11:49	1

Lab Sample ID: LCS 480-334565/7

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		94	61 - 148
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,2,3-Trimethylbenzene	25.0	27.2		ug/L		109	78 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: LCS 480-334565/7

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	56 - 134
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	77 - 121
1,3-Dichlorobenzene	25.0	26.4		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 120
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	105		ug/L		84	65 - 127
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	27.1		ug/L		108	61 - 132
Bromomethane	25.0	21.5		ug/L		86	55 - 144
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	80 - 120
Chloroethane	25.0	29.7		ug/L		119	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	27.3		ug/L		109	68 - 124
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124
Cyclohexane	25.0	24.8		ug/L		99	59 - 135
Dibromochloromethane	25.0	26.1		ug/L		105	75 - 125
Dichlorodifluoromethane	25.0	28.1		ug/L		112	59 - 135
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123
Isopropylbenzene	25.0	25.8		ug/L		103	77 - 122
Methyl acetate	125	106		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	25.7		ug/L		103	68 - 134
Methylene Chloride	25.0	23.4		ug/L		94	75 - 124
Styrene	25.0	24.4		ug/L		98	80 - 120
Tetrachloroethene	25.0	25.4		ug/L		101	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		103	80 - 120
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	25.6		ug/L		102	62 - 150
Vinyl chloride	25.0	30.2		ug/L		121	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Lab Sample ID: LCS 480-334565/7

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

GC/MS VOA

Analysis Batch: 334403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110191-1	WELL 1-1	Total/NA	Water	8260C	
480-110191-2	4009-9	Total/NA	Water	8260C	
480-110191-3	4009-10	Total/NA	Water	8260C	
480-110191-4	4009-11	Total/NA	Water	8260C	
480-110191-5	4009-12	Total/NA	Water	8260C	
480-110191-6	4009-13	Total/NA	Water	8260C	
480-110191-7	4009-13A	Total/NA	Water	8260C	
480-110191-8	4009-14	Total/NA	Water	8260C	
480-110191-9	4009-15	Total/NA	Water	8260C	
480-110191-10	4009-16	Total/NA	Water	8260C	
480-110191-11	4009-16A	Total/NA	Water	8260C	
480-110191-12	4009-18	Total/NA	Water	8260C	
480-110191-13	4009-19	Total/NA	Water	8260C	
MB 480-334403/7	Method Blank	Total/NA	Water	8260C	
LCS 480-334403/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 334536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110191-14	4009-21	Total/NA	Water	8260C	
480-110191-15	4009-22	Total/NA	Water	8260C	
480-110191-16	4009-27S	Total/NA	Water	8260C	
480-110191-17	4009-27I	Total/NA	Water	8260C	
480-110191-18	4009-27D	Total/NA	Water	8260C	
480-110191-19	4009-28	Total/NA	Water	8260C	
480-110191-21	4009-29I	Total/NA	Water	8260C	
480-110191-22	4009-29D	Total/NA	Water	8260C	
480-110191-23	4009-30	Total/NA	Water	8260C	
480-110191-24	4009-30A	Total/NA	Water	8260C	
480-110191-25	4009-11A	Total/NA	Water	8260C	
480-110191-26	DUP-1	Total/NA	Water	8260C	
480-110191-28	FIELD BLANK	Total/NA	Water	8260C	
480-110191-29	TRIP BLANK	Total/NA	Water	8260C	
MB 480-334536/6	Method Blank	Total/NA	Water	8260C	
LCS 480-334536/4	Lab Control Sample	Total/NA	Water	8260C	
480-110191-8 MS	4009-14	Total/NA	Water	8260C	
480-110191-8 MSD	4009-14	Total/NA	Water	8260C	
480-110191-17 MS	4009-27I	Total/NA	Water	8260C	
480-110191-17 MSD	4009-27I	Total/NA	Water	8260C	

Analysis Batch: 334565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110191-20	4009-29S	Total/NA	Water	8260C	
480-110191-21 - DL	4009-29I	Total/NA	Water	8260C	
480-110191-27	DUP-2	Total/NA	Water	8260C	
MB 480-334565/6	Method Blank	Total/NA	Water	8260C	
LCS 480-334565/7	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: WELL 1-1

Date Collected: 11/28/16 10:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	334403	12/02/16 13:32	SWO	TAL BUF

Client Sample ID: 4009-9

Date Collected: 11/28/16 14:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 13:55	SWO	TAL BUF

Client Sample ID: 4009-10

Date Collected: 11/28/16 14:45

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 14:17	SWO	TAL BUF

Client Sample ID: 4009-11

Date Collected: 11/28/16 15:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 14:40	SWO	TAL BUF

Client Sample ID: 4009-12

Date Collected: 11/28/16 13:05

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 15:04	SWO	TAL BUF

Client Sample ID: 4009-13

Date Collected: 11/28/16 14:25

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 15:27	SWO	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-13A

Date Collected: 11/28/16 14:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 15:50	SWO	TAL BUF

Client Sample ID: 4009-14

Date Collected: 11/28/16 10:40

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 16:13	SWO	TAL BUF

Client Sample ID: 4009-15

Date Collected: 11/28/16 12:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 16:36	SWO	TAL BUF

Client Sample ID: 4009-16

Date Collected: 11/28/16 12:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 16:59	SWO	TAL BUF

Client Sample ID: 4009-16A

Date Collected: 11/28/16 11:55

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 17:22	SWO	TAL BUF

Client Sample ID: 4009-18

Date Collected: 11/28/16 11:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 17:45	SWO	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-19

Date Collected: 11/28/16 11:20

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334403	12/02/16 18:08	SWO	TAL BUF

Client Sample ID: 4009-21

Date Collected: 11/28/16 11:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/02/16 22:00	GTG	TAL BUF

Client Sample ID: 4009-22

Date Collected: 11/28/16 10:25

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/02/16 22:24	GTG	TAL BUF

Client Sample ID: 4009-27S

Date Collected: 11/28/16 14:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/02/16 22:47	GTG	TAL BUF

Client Sample ID: 4009-27I

Date Collected: 11/28/16 14:05

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/02/16 23:10	GTG	TAL BUF

Client Sample ID: 4009-27D

Date Collected: 11/28/16 14:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/02/16 23:33	GTG	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-28

Date Collected: 11/28/16 10:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/02/16 23:56	GTG	TAL BUF

Client Sample ID: 4009-29S

Date Collected: 11/28/16 13:45

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	334565	12/03/16 13:03	NEA	TAL BUF

Client Sample ID: 4009-29I

Date Collected: 11/28/16 13:40

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 00:42	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	2	334565	12/03/16 13:26	NEA	TAL BUF

Client Sample ID: 4009-29D

Date Collected: 11/28/16 13:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 01:05	GTG	TAL BUF

Client Sample ID: 4009-30

Date Collected: 11/28/16 12:15

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 01:29	GTG	TAL BUF

Client Sample ID: 4009-30A

Date Collected: 11/28/16 12:10

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 01:52	GTG	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Client Sample ID: 4009-11A

Date Collected: 11/28/16 14:55

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 02:15	GTG	TAL BUF

Client Sample ID: DUP-1

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 02:38	GTG	TAL BUF

Client Sample ID: DUP-2

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	334565	12/03/16 13:49	NEA	TAL BUF

Client Sample ID: FIELD BLANK

Date Collected: 11/28/16 15:35

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 03:24	GTG	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 00:45

Lab Sample ID: 480-110191-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334536	12/03/16 03:47	GTG	TAL BUF

Laboratory References:

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

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

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

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110191-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-110191-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WELL 1-1	480-110191-1	101	102	100	95
4009-9	480-110191-2	100	100	101	96
4009-10	480-110191-3	103	101	101	97
4009-11	480-110191-4	100	100	101	97
4009-12	480-110191-5	101	102	103	97
4009-13	480-110191-6	100	102	100	93
4009-13A	480-110191-7	100	99	102	96
4009-14	480-110191-8	103	103	101	96
4009-15	480-110191-9	102	102	101	94
4009-16	480-110191-10	102	104	102	95
4009-16A	480-110191-11	101	100	102	95
4009-18	480-110191-12	101	103	102	95
4009-19	480-110191-13	103	106	101	94
4009-21	480-110191-14	102	103	100	92
4009-22	480-110191-15	102	100	99	97
4009-27S	480-110191-16	103	101	100	94
4009-27I	480-110191-17	101	102	99	92
4009-27D	480-110191-18	100	97	99	92
4009-28	480-110191-19	101	102	101	95
4009-29S	480-110191-20	101	101	100	94
4009-29I	480-110191-21	97	98	98	92
4009-29I DL	480-110191-21 DL	100	100	98	92
4009-29D	480-110191-22	102	102	99	94
4009-30	480-110191-23	100	101	99	91
4009-30A	480-110191-24	100	105	101	93
4009-11A	480-110191-25	100	104	101	95
DUP-1	480-110191-26	102	104	99	94
DUP-2	480-110191-27	101	100	100	93
FIELD BLANK	480-110191-28	101	105	100	93
TRIP BLANK	480-110191-29	100	101	101	94
	MB 480-334403/7	102	100	100	95
	MB 480-334536/6	98	100	101	93
	MB 480-334565/6	102	102	99	92
	LCS 480-334403/5	100	102	100	94
	LCS 480-334536/4	101	104	99	90

QC LIMITS

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

75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	LCS 480-334565/7	98	102	100	93
4009-14 MS	480-110191-8 MS	100	102	100	92
4009-27I MS	480-110191-17 MS	99	104	101	95
4009-14 MSD	480-110191-8 MSD	102	103	100	94
4009-27I MSD	480-110191-17 MSD	102	104	102	96

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
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.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0250.D
 Lab ID: LCS 480-334403/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.0	88	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.7	103	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.2	81	61-148	
1,1,2-Trichloroethane	25.0	24.5	98	76-122	
1,1-Dichloroethane	25.0	22.4	90	77-120	
1,1-Dichloroethene	25.0	22.5	90	66-127	
1,2,3-Trimethylbenzene	25.0	26.3	105	78-120	
1,2,4-Trichlorobenzene	25.0	25.6	103	79-122	
1,2,4-Trimethylbenzene	25.0	25.0	100	76-121	
1,2-Dibromo-3-Chloropropane	25.0	25.7	103	56-134	
1,2-Dibromoethane	25.0	24.3	97	77-120	
1,2-Dichlorobenzene	25.0	24.9	100	80-124	
1,2-Dichloroethane	25.0	22.2	89	75-120	
1,2-Dichloropropane	25.0	24.0	96	76-120	
1,3,5-Trimethylbenzene	25.0	24.4	97	77-121	
1,3-Dichlorobenzene	25.0	25.0	100	77-120	
1,4-Dichlorobenzene	25.0	24.4	98	80-120	
2-Butanone (MEK)	125	109	87	57-140	
2-Hexanone	125	108	86	65-127	
4-Methyl-2-pentanone (MIBK)	125	110	88	71-125	
Acetone	125	108	86	56-142	
Benzene	25.0	22.6	90	71-124	
Bromodichloromethane	25.0	23.5	94	80-122	
Bromoform	25.0	25.7	103	61-132	
Bromomethane	25.0	21.3	85	55-144	
Carbon disulfide	25.0	19.5	78	59-134	
Carbon tetrachloride	25.0	21.9	88	72-134	
Chlorobenzene	25.0	23.3	93	80-120	
Chloroethane	25.0	24.5	98	69-136	
Chloroform	25.0	23.0	92	73-127	
Chloromethane	25.0	19.7	79	68-124	
cis-1,2-Dichloroethene	25.0	24.0	96	74-124	
cis-1,3-Dichloropropene	25.0	25.2	101	74-124	
Cyclohexane	25.0	21.2	85	59-135	
Dibromochloromethane	25.0	24.9	100	75-125	
Dichlorodifluoromethane	25.0	15.3	61	59-135	
Ethylbenzene	25.0	22.1	89	77-123	
Isopropylbenzene	25.0	24.0	96	77-122	
Methyl acetate	125	108	86	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	22.1	88	68-134	

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.: 480-110191-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S0250.D
Lab ID: LCS 480-334403/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	22.6	91	75-124	
Styrene	25.0	23.0	92	80-120	
Tetrachloroethene	25.0	22.5	90	74-122	
Toluene	25.0	22.6	90	80-122	
trans-1,2-Dichloroethene	25.0	22.5	90	73-127	
trans-1,3-Dichloropropene	25.0	25.1	100	80-120	
Trichloroethene	25.0	22.6	91	74-123	
Trichlorofluoromethane	25.0	20.8	83	62-150	
Vinyl chloride	25.0	22.1	88	65-133	

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.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0276.D
 Lab ID: LCS 480-334536/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.8	99	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.1	100	76-120	
1,1,2-Trichloro-1,2,2-trifluor oethane	25.0	23.3	93	61-148	
1,1,2-Trichloroethane	25.0	24.1	96	76-122	
1,1-Dichloroethane	25.0	24.1	97	77-120	
1,1-Dichloroethene	25.0	25.1	100	66-127	
1,2,3-Trimethylbenzene	25.0	26.4	106	78-120	
1,2,4-Trichlorobenzene	25.0	25.3	101	79-122	
1,2,4-Trimethylbenzene	25.0	25.5	102	76-121	
1,2-Dibromo-3-Chloropropane	25.0	25.1	100	56-134	
1,2-Dibromoethane	25.0	24.4	98	77-120	
1,2-Dichlorobenzene	25.0	24.9	100	80-124	
1,2-Dichloroethane	25.0	22.7	91	75-120	
1,2-Dichloropropane	25.0	24.9	99	76-120	
1,3,5-Trimethylbenzene	25.0	24.9	100	77-121	
1,3-Dichlorobenzene	25.0	25.6	103	77-120	
1,4-Dichlorobenzene	25.0	25.4	102	80-120	
2-Butanone (MEK)	125	117	94	57-140	
2-Hexanone	125	105	84	65-127	
4-Methyl-2-pentanone (MIBK)	125	107	85	71-125	
Acetone	125	116	93	56-142	
Benzene	25.0	24.2	97	71-124	
Bromodichloromethane	25.0	24.2	97	80-122	
Bromoform	25.0	25.2	101	61-132	
Bromomethane	25.0	22.3	89	55-144	
Carbon disulfide	25.0	21.8	87	59-134	
Carbon tetrachloride	25.0	25.9	103	72-134	
Chlorobenzene	25.0	24.0	96	80-120	
Chloroethane	25.0	26.5	106	69-136	
Chloroform	25.0	24.3	97	73-127	
Chloromethane	25.0	19.5	78	68-124	
cis-1,2-Dichloroethene	25.0	25.2	101	74-124	
cis-1,3-Dichloropropene	25.0	25.8	103	74-124	
Cyclohexane	25.0	24.6	99	59-135	
Dibromochloromethane	25.0	25.4	102	75-125	
Dichlorodifluoromethane	25.0	15.4	62	59-135	
Ethylbenzene	25.0	23.6	94	77-123	
Isopropylbenzene	25.0	24.8	99	77-122	
Methyl acetate	125	108	86	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	25.1	100	68-134	

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.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0276.D
 Lab ID: LCS 480-334536/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	22.6	90	75-124	
Styrene	25.0	23.5	94	80-120	
Tetrachloroethene	25.0	24.8	99	74-122	
Toluene	25.0	23.9	95	80-122	
trans-1,2-Dichloroethene	25.0	24.4	97	73-127	
trans-1,3-Dichloropropene	25.0	24.9	99	80-120	
Trichloroethene	25.0	24.8	99	74-123	
Trichlorofluoromethane	25.0	23.5	94	62-150	
Vinyl chloride	25.0	23.8	95	65-133	

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.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0307.D
 Lab ID: LCS 480-334565/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.3	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.5	102	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4	94	61-148	
1,1,2-Trichloroethane	25.0	25.8	103	76-122	
1,1-Dichloroethane	25.0	24.6	98	77-120	
1,1-Dichloroethene	25.0	25.4	102	66-127	
1,2,3-Trimethylbenzene	25.0	27.2	109	78-120	
1,2,4-Trichlorobenzene	25.0	26.2	105	79-122	
1,2,4-Trimethylbenzene	25.0	26.0	104	76-121	
1,2-Dibromo-3-Chloropropane	25.0	25.9	104	56-134	
1,2-Dibromoethane	25.0	24.8	99	77-120	
1,2-Dichlorobenzene	25.0	26.2	105	80-124	
1,2-Dichloroethane	25.0	23.0	92	75-120	
1,2-Dichloropropane	25.0	25.1	100	76-120	
1,3,5-Trimethylbenzene	25.0	26.2	105	77-121	
1,3-Dichlorobenzene	25.0	26.4	105	77-120	
1,4-Dichlorobenzene	25.0	25.9	104	80-120	
2-Butanone (MEK)	125	110	88	57-140	
2-Hexanone	125	105	84	65-127	
4-Methyl-2-pentanone (MIBK)	125	108	86	71-125	
Acetone	125	113	90	56-142	
Benzene	25.0	25.0	100	71-124	
Bromodichloromethane	25.0	24.4	98	80-122	
Bromoform	25.0	27.1	108	61-132	
Bromomethane	25.0	21.5	86	55-144	
Carbon disulfide	25.0	21.7	87	59-134	
Carbon tetrachloride	25.0	26.5	106	72-134	
Chlorobenzene	25.0	25.0	100	80-120	
Chloroethane	25.0	29.7	119	69-136	
Chloroform	25.0	24.5	98	73-127	
Chloromethane	25.0	27.3	109	68-124	
cis-1,2-Dichloroethene	25.0	25.6	103	74-124	
cis-1,3-Dichloropropene	25.0	26.0	104	74-124	
Cyclohexane	25.0	24.8	99	59-135	
Dibromochloromethane	25.0	26.1	105	75-125	
Dichlorodifluoromethane	25.0	28.1	112	59-135	
Ethylbenzene	25.0	24.5	98	77-123	
Isopropylbenzene	25.0	25.8	103	77-122	
Methyl acetate	125	106	85	74-133	
Methyl tert-butyl ether	25.0	23.3	93	77-120	
Methylcyclohexane	25.0	25.7	103	68-134	

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.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0307.D
 Lab ID: LCS 480-334565/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	23.4	94	75-124	
Styrene	25.0	24.4	98	80-120	
Tetrachloroethene	25.0	25.4	101	74-122	
Toluene	25.0	24.8	99	80-122	
trans-1,2-Dichloroethene	25.0	25.0	100	73-127	
trans-1,3-Dichloropropene	25.0	25.9	103	80-120	
Trichloroethene	25.0	24.9	100	74-123	
Trichlorofluoromethane	25.0	25.6	102	62-150	
Vinyl chloride	25.0	30.2	121	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0295.D
 Lab ID: 480-110191-8 MS Client ID: 4009-14 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.0 U	29.9	120	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	26.8	107	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	26.0	104	61-148	
1,1,2-Trichloroethane	25.0	1.0 U	26.5	106	76-122	
1,1-Dichloroethane	25.0	1.0 U	27.5	110	77-120	
1,1-Dichloroethene	25.0	1.0 U	29.6	118	66-127	
1,2,3-Trimethylbenzene	25.0	1.0 U	26.2	105	78-120	
1,2,4-Trichlorobenzene	25.0	1.0 U	25.7	103	79-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	27.6	110	76-121	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	26.5	106	56-134	
1,2-Dibromoethane	25.0	1.0 U	26.3	105	77-120	
1,2-Dichlorobenzene	25.0	1.0 U	27.0	108	80-124	
1,2-Dichloroethane	25.0	1.0 U	24.8	99	75-120	
1,2-Dichloropropane	25.0	1.0 U	27.4	110	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	28.0	112	77-121	
1,3-Dichlorobenzene	25.0	1.0 U	27.7	111	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	26.9	108	78-124	
2-Butanone (MEK)	125	10 U	107	86	57-140	
2-Hexanone	125	5.0 U	108	86	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	114	91	71-125	
Acetone	125	10 U	101	81	56-142	
Benzene	25.0	17	43.2	106	71-124	
Bromodichloromethane	25.0	1.0 U	26.7	107	80-122	
Bromoform	25.0	1.0 U	27.1	108	61-132	
Bromomethane	25.0	1.0 U	23.8	95	55-144	
Carbon disulfide	25.0	1.0 U	23.9	96	59-134	
Carbon tetrachloride	25.0	1.0 U	30.1	120	72-134	
Chlorobenzene	25.0	1.0 U	27.2	109	80-120	
Chloroethane	25.0	1.0 U	27.1	108	69-136	
Chloroform	25.0	1.0 U	27.4	109	73-127	
Chloromethane	25.0	1.0 U	20.3	81	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	28.8	115	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	26.8	107	74-124	
Cyclohexane	25.0	1.0 U	27.9	112	59-135	
Dibromochloromethane	25.0	1.0 U	27.2	109	75-125	
Dichlorodifluoromethane	25.0	1.0 U	14.1	56	59-135	*
Ethylbenzene	25.0	1.0 U	27.1	108	77-123	
Isopropylbenzene	25.0	1.0 U	28.0	112	77-122	
Methyl acetate	125	2.5 U	108	87	74-133	
Methyl tert-butyl ether	25.0	1.0 U	24.5	98	77-120	
Methylcyclohexane	25.0	1.0 U	27.8	111	68-134	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0295.D
 Lab ID: 480-110191-8 MS Client ID: 4009-14 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	1.0 U	25.4	102	75-124	
Styrene	25.0	1.0 U	27.2	109	80-120	
Tetrachloroethene	25.0	1.0 U	28.1	112	74-122	
Toluene	25.0	1.0 U	28.2	113	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	28.9	116	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	26.1	104	80-120	
Trichloroethene	25.0	1.0 U	28.2	113	74-123	
Trichlorofluoromethane	25.0	1.0 U	23.2	93	62-150	
Vinyl chloride	25.0	1.0 U	24.5	98	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0297.D
 Lab ID: 480-110191-17 MS Client ID: 4009-27I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.0 U	28.9	116	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	25.3	101	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	25.4	102	61-148	
1,1,2-Trichloroethane	25.0	1.0 U	25.5	102	76-122	
1,1-Dichloroethane	25.0	1.0 U	26.1	105	77-120	
1,1-Dichloroethene	25.0	1.0 U	27.4	109	66-127	
1,2,3-Trimethylbenzene	25.0	1.0 U	26.1	104	78-120	
1,2,4-Trichlorobenzene	25.0	1.0 U	24.6	98	79-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	26.2	105	76-121	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	26.1	104	56-134	
1,2-Dibromoethane	25.0	1.0 U	24.9	100	77-120	
1,2-Dichlorobenzene	25.0	1.0 U	25.5	102	80-124	
1,2-Dichloroethane	25.0	1.0 U	23.9	96	75-120	
1,2-Dichloropropane	25.0	1.0 U	26.1	105	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	26.3	105	77-121	
1,3-Dichlorobenzene	25.0	1.0 U	26.2	105	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	25.2	101	78-124	
2-Butanone (MEK)	125	10 U	107	85	57-140	
2-Hexanone	125	5.0 U	100	80	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	108	87	71-125	
Acetone	125	10 U	98.2	79	56-142	
Benzene	25.0	1.5	27.6	105	71-124	
Bromodichloromethane	25.0	1.0 U	25.4	102	80-122	
Bromoform	25.0	1.0 U	26.1	104	61-132	
Bromomethane	25.0	1.0 U	22.9	92	55-144	
Carbon disulfide	25.0	1.0 U	22.3	89	59-134	
Carbon tetrachloride	25.0	1.0 U	28.8	115	72-134	
Chlorobenzene	25.0	1.0 U	24.9	100	80-120	
Chloroethane	25.0	1.0 U	26.5	106	69-136	
Chloroform	25.0	1.0 U	25.9	104	73-127	
Chloromethane	25.0	1.0 U	19.0	76	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	27.2	109	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	25.8	103	74-124	
Cyclohexane	25.0	1.0 U	27.6	110	59-135	
Dibromochloromethane	25.0	1.0 U	26.1	104	75-125	
Dichlorodifluoromethane	25.0	1.0 U	12.5	50	59-135	*
Ethylbenzene	25.0	1.0 U	25.7	103	77-123	
Isopropylbenzene	25.0	1.0 U	26.8	107	77-122	
Methyl acetate	125	2.5 U	105	84	74-133	
Methyl tert-butyl ether	25.0	1.0 U	24.3	97	77-120	
Methylcyclohexane	25.0	1.0 U	26.8	107	68-134	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0297.D
 Lab ID: 480-110191-17 MS Client ID: 4009-27I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	1.0 U	24.3	97	75-124	
Styrene	25.0	1.0 U	25.1	101	80-120	
Tetrachloroethene	25.0	1.0 U	26.8	107	74-122	
Toluene	25.0	1.0 U	25.6	103	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	27.2	109	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	25.5	102	80-120	
Trichloroethene	25.0	1.0 U	27.4	110	74-123	
Trichlorofluoromethane	25.0	1.0 U	22.7	91	62-150	
Vinyl chloride	25.0	1.0 U	23.9	96	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0296.D
 Lab ID: 480-110191-8 MSD Client ID: 4009-14 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	28.7	115	4	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.3	105	2	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.2	101	3	20	61-148	
1,1,2-Trichloroethane	25.0	25.9	103	2	15	76-122	
1,1-Dichloroethane	25.0	26.9	108	2	20	77-120	
1,1-Dichloroethene	25.0	28.8	115	3	16	66-127	
1,2,3-Trimethylbenzene	25.0	26.4	106	1	20	78-120	
1,2,4-Trichlorobenzene	25.0	25.6	102	1	20	79-122	
1,2,4-Trimethylbenzene	25.0	27.7	111	0	20	76-121	
1,2-Dibromo-3-Chloropropane	25.0	27.6	110	4	15	56-134	
1,2-Dibromoethane	25.0	25.2	101	4	15	77-120	
1,2-Dichlorobenzene	25.0	26.7	107	1	20	80-124	
1,2-Dichloroethane	25.0	24.4	98	2	20	75-120	
1,2-Dichloropropane	25.0	26.9	108	2	20	76-120	
1,3,5-Trimethylbenzene	25.0	27.9	112	0	20	77-121	
1,3-Dichlorobenzene	25.0	27.4	110	1	20	77-120	
1,4-Dichlorobenzene	25.0	26.1	105	3	20	78-124	
2-Butanone (MEK)	125	109	87	2	20	57-140	
2-Hexanone	125	104	83	4	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	111	89	3	35	71-125	
Acetone	125	99.4	80	1	15	56-142	
Benzene	25.0	42.4	102	2	13	71-124	
Bromodichloromethane	25.0	26.1	105	2	15	80-122	
Bromoform	25.0	26.4	106	3	15	61-132	
Bromomethane	25.0	22.9	92	4	15	55-144	
Carbon disulfide	25.0	22.5	90	6	15	59-134	
Carbon tetrachloride	25.0	29.6	118	2	15	72-134	
Chlorobenzene	25.0	26.2	105	4	25	80-120	
Chloroethane	25.0	26.7	107	1	15	69-136	
Chloroform	25.0	26.4	106	3	20	73-127	
Chloromethane	25.0	19.6	79	3	15	68-124	
cis-1,2-Dichloroethene	25.0	28.0	112	3	15	74-124	
cis-1,3-Dichloropropene	25.0	26.5	106	1	15	74-124	
Cyclohexane	25.0	27.3	109	2	20	59-135	
Dibromochloromethane	25.0	26.6	106	2	15	75-125	
Dichlorodifluoromethane	25.0	13.3	53	6	20	59-135	*
Ethylbenzene	25.0	26.3	105	3	15	77-123	
Isopropylbenzene	25.0	28.3	113	1	20	77-122	
Methyl acetate	125	107	85	1	20	74-133	
Methyl tert-butyl ether	25.0	24.6	98	0	37	77-120	
Methylcyclohexane	25.0	27.0	108	3	20	68-134	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0296.D
 Lab ID: 480-110191-8 MSD Client ID: 4009-14 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methylene Chloride	25.0	24.4	98	4	15	75-124	
Styrene	25.0	26.1	104	4	20	80-120	
Tetrachloroethene	25.0	27.1	108	4	20	74-122	
Toluene	25.0	27.0	108	5	15	80-122	
trans-1,2-Dichloroethene	25.0	28.0	112	3	20	73-127	
trans-1,3-Dichloropropene	25.0	25.5	102	2	15	80-120	
Trichloroethene	25.0	27.6	110	2	16	74-123	
Trichlorofluoromethane	25.0	23.0	92	1	20	62-150	
Vinyl chloride	25.0	23.9	96	3	15	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-110191-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S0298.D

Lab ID: 480-110191-17 MSD

Client ID: 4009-27I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	27.5	110	5	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.6	99	3	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.6	98	3	20	61-148	
1,1,2-Trichloroethane	25.0	25.8	103	1	15	76-122	
1,1-Dichloroethane	25.0	25.5	102	3	20	77-120	
1,1-Dichloroethene	25.0	28.0	112	2	16	66-127	
1,2,3-Trimethylbenzene	25.0	26.3	105	1	20	78-120	
1,2,4-Trichlorobenzene	25.0	24.7	99	0	20	79-122	
1,2,4-Trimethylbenzene	25.0	25.8	103	1	20	76-121	
1,2-Dibromo-3-Chloropropane	25.0	25.2	101	3	15	56-134	
1,2-Dibromoethane	25.0	24.3	97	2	15	77-120	
1,2-Dichlorobenzene	25.0	25.2	101	1	20	80-124	
1,2-Dichloroethane	25.0	23.2	93	3	20	75-120	
1,2-Dichloropropane	25.0	25.4	101	3	20	76-120	
1,3,5-Trimethylbenzene	25.0	25.9	104	1	20	77-121	
1,3-Dichlorobenzene	25.0	25.9	104	1	20	77-120	
1,4-Dichlorobenzene	25.0	25.1	100	0	20	78-124	
2-Butanone (MEK)	125	104	83	3	20	57-140	
2-Hexanone	125	102	82	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	108	87	0	35	71-125	
Acetone	125	96.1	77	2	15	56-142	
Benzene	25.0	26.7	101	3	13	71-124	
Bromodichloromethane	25.0	24.5	98	4	15	80-122	
Bromoform	25.0	26.4	106	1	15	61-132	
Bromomethane	25.0	24.3	97	6	15	55-144	
Carbon disulfide	25.0	22.0	88	2	15	59-134	
Carbon tetrachloride	25.0	28.6	114	1	15	72-134	
Chlorobenzene	25.0	25.3	101	2	25	80-120	
Chloroethane	25.0	27.1	108	2	15	69-136	
Chloroform	25.0	25.1	100	3	20	73-127	
Chloromethane	25.0	19.9	80	4	15	68-124	
cis-1,2-Dichloroethene	25.0	26.8	107	1	15	74-124	
cis-1,3-Dichloropropene	25.0	25.3	101	2	15	74-124	
Cyclohexane	25.0	26.4	106	4	20	59-135	
Dibromochloromethane	25.0	25.8	103	1	15	75-125	
Dichlorodifluoromethane	25.0	12.9	52	4	20	59-135	*
Ethylbenzene	25.0	25.6	102	1	15	77-123	
Isopropylbenzene	25.0	26.3	105	2	20	77-122	
Methyl acetate	125	101	81	4	20	74-133	
Methyl tert-butyl ether	25.0	23.5	94	3	37	77-120	
Methylcyclohexane	25.0	26.0	104	3	20	68-134	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S0298.D
 Lab ID: 480-110191-17 MSD Client ID: 4009-27I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methylene Chloride	25.0	23.8	95	2	15	75-124	
Styrene	25.0	25.2	101	0	20	80-120	
Tetrachloroethene	25.0	26.6	107	1	20	74-122	
Toluene	25.0	25.9	103	1	15	80-122	
trans-1,2-Dichloroethene	25.0	27.2	109	0	20	73-127	
trans-1,3-Dichloropropene	25.0	25.1	100	2	15	80-120	
Trichloroethene	25.0	26.0	104	5	16	74-123	
Trichlorofluoromethane	25.0	24.3	97	7	20	62-150	
Vinyl chloride	25.0	24.3	97	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Lab File ID: S0252.D Lab Sample ID: MB 480-334403/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 12/02/2016 10:58
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-334403/5	S0250.D	12/02/2016 10:12
WELL 1-1	480-110191-1	S0258.D	12/02/2016 13:32
4009-9	480-110191-2	S0259.D	12/02/2016 13:55
4009-10	480-110191-3	S0260.D	12/02/2016 14:17
4009-11	480-110191-4	S0261.D	12/02/2016 14:40
4009-12	480-110191-5	S0262.D	12/02/2016 15:04
4009-13	480-110191-6	S0263.D	12/02/2016 15:27
4009-13A	480-110191-7	S0264.D	12/02/2016 15:50
4009-14	480-110191-8	S0265.D	12/02/2016 16:13
4009-15	480-110191-9	S0266.D	12/02/2016 16:36
4009-16	480-110191-10	S0267.D	12/02/2016 16:59
4009-16A	480-110191-11	S0268.D	12/02/2016 17:22
4009-18	480-110191-12	S0269.D	12/02/2016 17:45
4009-19	480-110191-13	S0270.D	12/02/2016 18:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Lab File ID: S0278.D Lab Sample ID: MB 480-334536/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 12/02/2016 21:22
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-334536/4	S0276.D	12/02/2016 20:36
4009-21	480-110191-14	S0279.D	12/02/2016 22:00
4009-22	480-110191-15	S0280.D	12/02/2016 22:24
4009-27S	480-110191-16	S0281.D	12/02/2016 22:47
4009-27I	480-110191-17	S0282.D	12/02/2016 23:10
4009-27D	480-110191-18	S0283.D	12/02/2016 23:33
4009-28	480-110191-19	S0284.D	12/02/2016 23:56
4009-29I	480-110191-21	S0286.D	12/03/2016 00:42
4009-29D	480-110191-22	S0287.D	12/03/2016 01:05
4009-30	480-110191-23	S0288.D	12/03/2016 01:29
4009-30A	480-110191-24	S0289.D	12/03/2016 01:52
4009-11A	480-110191-25	S0290.D	12/03/2016 02:15
DUP-1	480-110191-26	S0291.D	12/03/2016 02:38
FIELD BLANK	480-110191-28	S0293.D	12/03/2016 03:24
TRIP BLANK	480-110191-29	S0294.D	12/03/2016 03:47
4009-14 MS	480-110191-8 MS	S0295.D	12/03/2016 04:10
4009-14 MSD	480-110191-8 MSD	S0296.D	12/03/2016 04:33
4009-27I MS	480-110191-17 MS	S0297.D	12/03/2016 04:57
4009-27I MSD	480-110191-17 MSD	S0298.D	12/03/2016 05:20

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Lab File ID: S0309.D Lab Sample ID: MB 480-334565/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 12/03/2016 11:49
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-334565/7	S0307.D	12/03/2016 11:03
4009-29S	480-110191-20	S0311.D	12/03/2016 13:03
4009-29I DL	480-110191-21 DL	S0312.D	12/03/2016 13:26
DUP-2	480-110191-27	S0313.D	12/03/2016 13:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Lab File ID: S9062.D BFB Injection Date: 11/09/2016
Instrument ID: HP5973S BFB Injection Time: 15:56
Analysis Batch No.: 330658

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.2
75	30.0 - 60.0 % of mass 95	47.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	86.8
175	5.0 - 9.0 % of mass 174	5.9 (6.8) 1
176	95.0 - 101.0 % of mass 174	83.0 (95.7) 1
177	5.0 - 9.0 % of mass 176	5.9 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-330658/4	S9064.D	11/09/2016	16:51
	IC 480-330658/5	S9065.D	11/09/2016	17:14
	IC 480-330658/6	S9066.D	11/09/2016	17:37
	IC 480-330658/7	S9067.D	11/09/2016	18:00
	IC 480-330658/8	S9068.D	11/09/2016	18:23
	ICIS 480-330658/9	S9069.D	11/09/2016	18:46
	IC 480-330658/10	S9070.D	11/09/2016	19:10
	IC 480-330658/11	S9071.D	11/09/2016	19:33
	IC 480-330658/17	S9076.D	11/09/2016	21:28
	IC 480-330658/18	S9077.D	11/09/2016	21:51
	IC 480-330658/19	S9078.D	11/09/2016	22:14
	IC 480-330658/20	S9079.D	11/09/2016	22:38
	IC 480-330658/21	S9080.D	11/09/2016	23:01
	IC 480-330658/22	S9081.D	11/09/2016	23:24
	IC 480-330658/23	S9082.D	11/09/2016	23:47

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Lab File ID: S0246.D BFB Injection Date: 12/02/2016
Instrument ID: HP5973S BFB Injection Time: 08:39
Analysis Batch No.: 334403

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.2
75	30.0 - 60.0 % of mass 95	48.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	81.1
175	5.0 - 9.0 % of mass 174	6.2 (7.6) 1
176	95.0 - 101.0 % of mass 174	78.8 (97.2) 1
177	5.0 - 9.0 % of mass 176	5.3 (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 480-334403/2	S0247.D	12/02/2016	09:03
	CCV 480-334403/3	S0248.D	12/02/2016	09:26
	LCS 480-334403/5	S0250.D	12/02/2016	10:12
	MB 480-334403/7	S0252.D	12/02/2016	10:58
WELL 1-1	480-110191-1	S0258.D	12/02/2016	13:32
4009-9	480-110191-2	S0259.D	12/02/2016	13:55
4009-10	480-110191-3	S0260.D	12/02/2016	14:17
4009-11	480-110191-4	S0261.D	12/02/2016	14:40
4009-12	480-110191-5	S0262.D	12/02/2016	15:04
4009-13	480-110191-6	S0263.D	12/02/2016	15:27
4009-13A	480-110191-7	S0264.D	12/02/2016	15:50
4009-14	480-110191-8	S0265.D	12/02/2016	16:13
4009-15	480-110191-9	S0266.D	12/02/2016	16:36
4009-16	480-110191-10	S0267.D	12/02/2016	16:59
4009-16A	480-110191-11	S0268.D	12/02/2016	17:22
4009-18	480-110191-12	S0269.D	12/02/2016	17:45
4009-19	480-110191-13	S0270.D	12/02/2016	18:08

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
SDG No.: _____
Lab File ID: S0273.D BFB Injection Date: 12/02/2016
Instrument ID: HP5973S BFB Injection Time: 19:24
Analysis Batch No.: 334536

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.4
75	30.0 - 60.0 % of mass 95	47.9
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	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	83.9
175	5.0 - 9.0 % of mass 174	6.0 (7.2) 1
176	95.0 - 101.0 % of mass 174	79.8 (95.1) 1
177	5.0 - 9.0 % of mass 176	4.6 (5.8) 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 480-334536/2	S0274.D	12/02/2016	19:50
	CCV 480-334536/3	S0275.D	12/02/2016	20:13
	LCS 480-334536/4	S0276.D	12/02/2016	20:36
	MB 480-334536/6	S0278.D	12/02/2016	21:22
4009-21	480-110191-14	S0279.D	12/02/2016	22:00
4009-22	480-110191-15	S0280.D	12/02/2016	22:24
4009-27S	480-110191-16	S0281.D	12/02/2016	22:47
4009-27I	480-110191-17	S0282.D	12/02/2016	23:10
4009-27D	480-110191-18	S0283.D	12/02/2016	23:33
4009-28	480-110191-19	S0284.D	12/02/2016	23:56
4009-29I	480-110191-21	S0286.D	12/03/2016	00:42
4009-29D	480-110191-22	S0287.D	12/03/2016	01:05
4009-30	480-110191-23	S0288.D	12/03/2016	01:29
4009-30A	480-110191-24	S0289.D	12/03/2016	01:52
4009-11A	480-110191-25	S0290.D	12/03/2016	02:15
DUP-1	480-110191-26	S0291.D	12/03/2016	02:38
FIELD BLANK	480-110191-28	S0293.D	12/03/2016	03:24
TRIP BLANK	480-110191-29	S0294.D	12/03/2016	03:47
4009-14 MS	480-110191-8 MS	S0295.D	12/03/2016	04:10
4009-14 MSD	480-110191-8 MSD	S0296.D	12/03/2016	04:33
4009-27I MS	480-110191-17 MS	S0297.D	12/03/2016	04:57
4009-27I MSD	480-110191-17 MSD	S0298.D	12/03/2016	05:20

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab File ID: S0302.D BFB Injection Date: 12/03/2016
 Instrument ID: HP5973S BFB Injection Time: 08:59
 Analysis Batch No.: 334565

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.5
75	30.0 - 60.0 % of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.3 (0.3) 1
174	50.0 - 120.00 % of mass 95	83.2
175	5.0 - 9.0 % of mass 174	6.2 (7.5) 1
176	95.0 - 101.0 % of mass 174	80.4 (96.5) 1
177	5.0 - 9.0 % of mass 176	5.5 (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 480-334565/2	S0303.D	12/03/2016	09:31
	CCV 480-334565/3	S0304.D	12/03/2016	09:54
	LCS 480-334565/7	S0307.D	12/03/2016	11:03
	MB 480-334565/6	S0309.D	12/03/2016	11:49
4009-29S	480-110191-20	S0311.D	12/03/2016	13:03
4009-29I DL	480-110191-21 DL	S0312.D	12/03/2016	13:26
DUP-2	480-110191-27	S0313.D	12/03/2016	13:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Sample No.: ICIS 480-330658/9 Date Analyzed: 11/09/2016 18:46
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S9069.D Heated Purge: (Y/N) N
 Calibration ID: 28808

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	104831	5.61	215209	8.61	219832	10.98	
UPPER LIMIT	209662	6.11	430418	9.11	439664	11.48	
LOWER LIMIT	52416	5.11	107605	8.11	109916	10.48	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-334403/2		84122	5.61	166132	8.61	166337	10.98
CCVIS 480-334536/2		82867	5.60	162856	8.61	162451	10.98
CCVIS 480-334565/2		81878	5.60	163511	8.61	163547	10.98

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 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.: 480-110191-1
 SDG No.: _____
 Sample No.: CCVIS 480-334403/2 Date Analyzed: 12/02/2016 09:03
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S0247.D Heated Purge: (Y/N) N
 Calibration ID: 28811

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84122	5.61	166132	8.61	166337	10.98
UPPER LIMIT		168244	6.11	332264	9.11	332674	11.48
LOWER LIMIT		42061	5.11	83066	8.11	83169	10.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-334403/3		80112	5.61	160732	8.61	155129	10.98
LCS 480-334403/5		80395	5.61	160803	8.61	156587	10.98
MB 480-334403/7		76933	5.61	160042	8.61	155168	10.98
480-110191-1	WELL 1-1	78377	5.61	161782	8.61	156787	10.98
480-110191-2	4009-9	78105	5.61	159926	8.61	160482	10.98
480-110191-3	4009-10	76629	5.61	157695	8.61	155997	10.98
480-110191-4	4009-11	78539	5.61	157804	8.61	158093	10.98
480-110191-5	4009-12	77843	5.61	158147	8.61	155138	10.98
480-110191-6	4009-13	77191	5.61	160252	8.61	156368	10.98
480-110191-7	4009-13A	79117	5.61	157599	8.61	155452	10.98
480-110191-8	4009-14	76876	5.61	155816	8.61	153735	10.98
480-110191-9	4009-15	76568	5.61	157894	8.61	153479	10.98
480-110191-10	4009-16	75465	5.61	155704	8.61	151401	10.98
480-110191-11	4009-16A	77906	5.61	157179	8.61	152376	10.98
480-110191-12	4009-18	75129	5.61	152061	8.61	151270	10.98
480-110191-13	4009-19	75493	5.61	157529	8.61	152241	10.98

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 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.: 480-110191-1
 SDG No.: _____
 Sample No.: CCVIS 480-334536/2 Date Analyzed: 12/02/2016 19:50
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S0274.D Heated Purge: (Y/N) N
 Calibration ID: 28811

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		82867	5.60	162856	8.61	162451	10.98
UPPER LIMIT		165734	6.10	325712	9.11	324902	11.48
LOWER LIMIT		41434	5.10	81428	8.11	81226	10.48
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCV 480-334536/3		79083	5.61	159520	8.61	155412	10.98
LCS 480-334536/4		80519	5.61	165913	8.61	159824	10.98
MB 480-334536/6		78234	5.61	159705	8.61	155299	10.98
480-110191-14	4009-21	80032	5.61	161157	8.61	160433	10.98
480-110191-15	4009-22	76846	5.61	157922	8.61	160186	10.98
480-110191-16	4009-27S	77730	5.61	160473	8.61	154013	10.98
480-110191-17	4009-27I	76945	5.61	157147	8.61	152589	10.98
480-110191-18	4009-27D	78223	5.61	157581	8.61	153694	10.98
480-110191-19	4009-28	76949	5.61	155225	8.61	153186	10.98
480-110191-21	4009-29I	79522	5.61	158545	8.61	153865	10.98
480-110191-22	4009-29D	74575	5.61	152254	8.61	147498	10.98
480-110191-23	4009-30	78072	5.61	159766	8.61	153086	10.98
480-110191-24	4009-30A	75524	5.61	152146	8.61	150172	10.98
480-110191-25	4009-11A	76078	5.61	151533	8.61	148710	10.98
480-110191-26	DUP-1	74969	5.61	153559	8.61	151516	10.98
480-110191-28	FIELD BLANK	74912	5.61	154559	8.61	149627	10.98
480-110191-29	TRIP BLANK	76092	5.61	150546	8.61	148263	10.98
480-110191-8 MS	4009-14 MS	78308	5.61	158000	8.61	158740	10.98
480-110191-8 MSD	4009-14 MSD	78106	5.61	160518	8.61	156312	10.98
480-110191-17 MS	4009-27I MS	78665	5.61	161327	8.61	161153	10.98
480-110191-17 MSD	4009-27I MSD	77282	5.61	154099	8.61	158337	10.98

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 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.: 480-110191-1
 SDG No.: _____
 Sample No.: CCVIS 480-334565/2 Date Analyzed: 12/03/2016 09:31
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S0303.D Heated Purge: (Y/N) N
 Calibration ID: 28811

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		81878	5.60	163511	8.61	163547	10.98
UPPER LIMIT		163756	6.10	327022	9.11	327094	11.48
LOWER LIMIT		40939	5.10	81756	8.11	81774	10.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-334565/3		77465	5.61	162848	8.61	158649	10.98
LCS 480-334565/7		80973	5.61	162186	8.61	159154	10.98
MB 480-334565/6		75464	5.61	156916	8.61	154052	10.98
480-110191-20	4009-29S	78090	5.61	158100	8.61	158846	10.98
480-110191-21 DL	4009-29I DL	76894	5.61	155415	8.61	152822	10.98
480-110191-27	DUP-2	77510	5.61	157272	8.61	154867	10.98

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 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.: 480-110191-1
 SDG No.: _____
 Client Sample ID: WELL 1-1 Lab Sample ID: 480-110191-1
 Matrix: Water Lab File ID: S0258.D
 Analysis Method: 8260C Date Collected: 11/28/2016 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 13:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	220		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.6
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	1.2
75-34-3	1,1-Dichloroethane	18		5.0	1.9
75-35-4	1,1-Dichloroethene	31		5.0	1.5
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	1.3
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	2.1
95-63-6	1,2,4-Trimethylbenzene	5.0	U	5.0	3.8
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0
106-93-4	1,2-Dibromoethane	5.0	U	5.0	3.7
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	4.0
107-06-2	1,2-Dichloroethane	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	5.0	U	5.0	3.6
108-67-8	1,3,5-Trimethylbenzene	5.0	U	5.0	3.9
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	3.9
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	4.2
78-93-3	2-Butanone (MEK)	50	U	50	6.6
591-78-6	2-Hexanone	25	U	25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	11
67-64-1	Acetone	50	U	50	15
71-43-2	Benzene	5.0	U	5.0	2.1
75-27-4	Bromodichloromethane	5.0	U	5.0	2.0
75-25-2	Bromoform	5.0	U	5.0	1.3
74-83-9	Bromomethane	5.0	U	5.0	3.5
75-15-0	Carbon disulfide	5.0	U	5.0	0.95
56-23-5	Carbon tetrachloride	5.0	U	5.0	1.4
108-90-7	Chlorobenzene	5.0	U	5.0	3.8
75-00-3	Chloroethane	5.0	U	5.0	1.6
67-66-3	Chloroform	5.0	U	5.0	1.7
74-87-3	Chloromethane	5.0	U	5.0	1.8
156-59-2	cis-1,2-Dichloroethene	62		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	1.8
110-82-7	Cyclohexane	5.0	U	5.0	0.90
124-48-1	Dibromochloromethane	5.0	U	5.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: WELL 1-1 Lab Sample ID: 480-110191-1
 Matrix: Water Lab File ID: S0258.D
 Analysis Method: 8260C Date Collected: 11/28/2016 10:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 13:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	3.4
100-41-4	Ethylbenzene	5.0	U	5.0	3.7
98-82-8	Isopropylbenzene	5.0	U	5.0	4.0
79-20-9	Methyl acetate	13	U	13	6.5
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.80
108-87-2	Methylcyclohexane	5.0	U	5.0	0.80
75-09-2	Methylene Chloride	5.0	U	5.0	2.2
100-42-5	Styrene	5.0	U	5.0	3.7
127-18-4	Tetrachloroethene	5.0	U	5.0	1.8
108-88-3	Toluene	5.0	U	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	1.9
79-01-6	Trichloroethene	66		5.0	2.3
75-69-4	Trichlorofluoromethane	5.0	U	5.0	4.4
75-01-4	Vinyl chloride	5.0	U	5.0	4.5
1330-20-7	Xylenes, Total	10	U	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D
 Lims ID: 480-110191-A-1
 Client ID: WELL 1-1
 Sample Type: Client
 Inject. Date: 02-Dec-2016 13:32:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-110191-a-1
 Misc. Info.: 480-0058820-013
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 19:18:38 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:32:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78377	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	161782	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	156787	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	94605	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60929	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	398766	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.859	0.001	93	127219	23.8	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	61	18575	6.14	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.983	0.000	53	21523	3.55	
45 cis-1,2-Dichloroethene	96	4.543	4.543	0.000	57	45881	12.3	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97	4.981	4.981	0.000	91	176997	43.6	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	88	46166	13.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D

Injection Date: 02-Dec-2016 13:32:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-1

Lab Sample ID: 480-110191-1

Worklist Smp#: 13

Client ID: WELL 1-1

Purge Vol: 5.000 mL

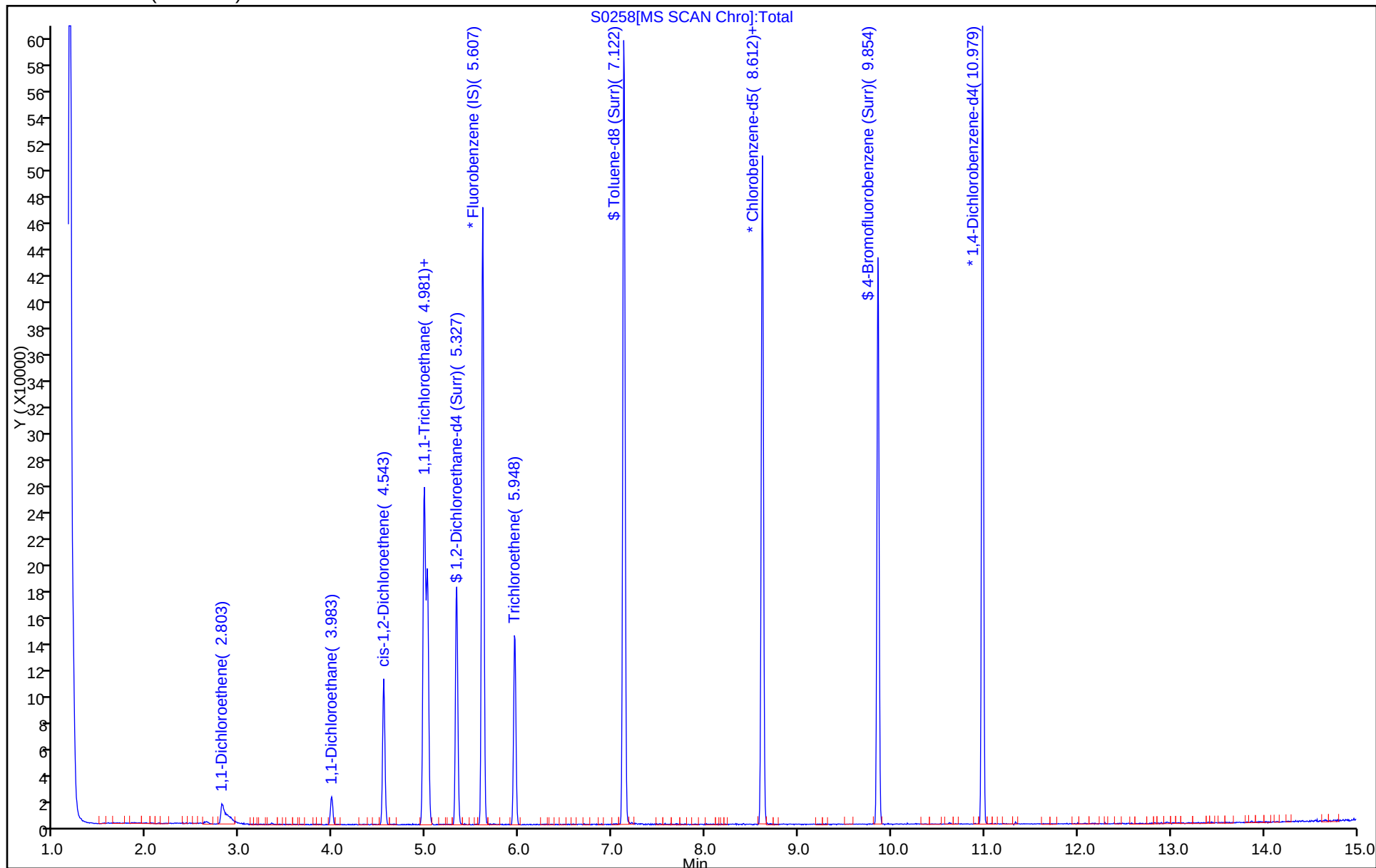
Dil. Factor: 5.0000

ALS Bottle#: 13

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D

Injection Date: 02-Dec-2016 13:32:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-1

Lab Sample ID: 480-110191-1

Client ID: WELL 1-1

Operator ID: NEA

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

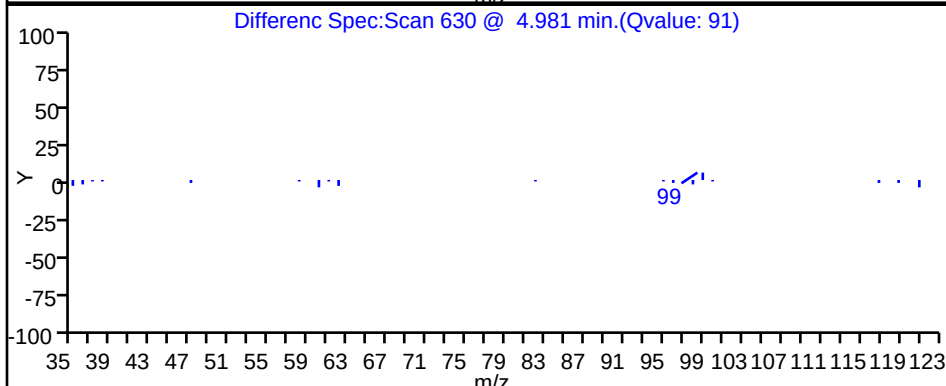
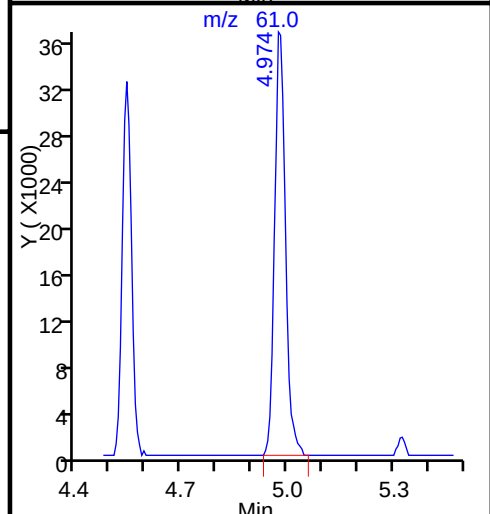
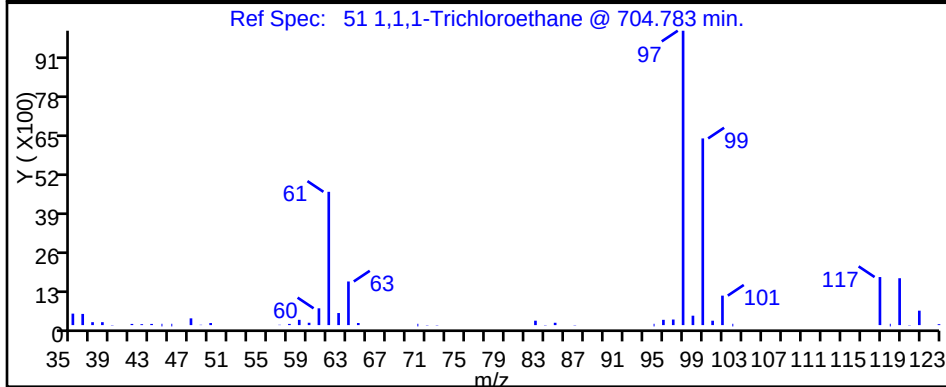
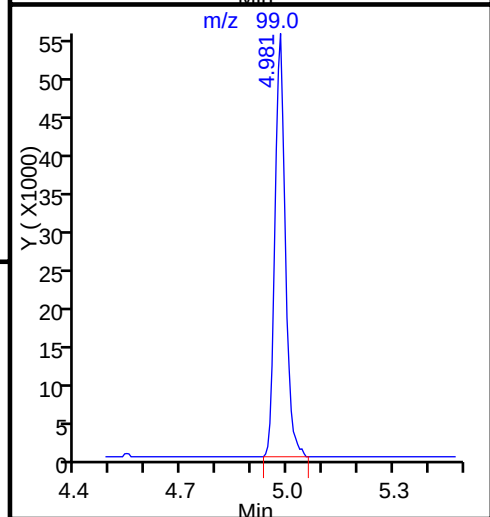
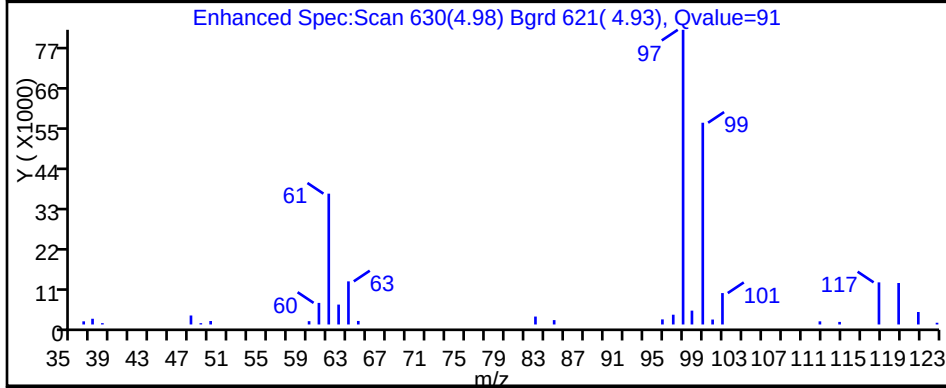
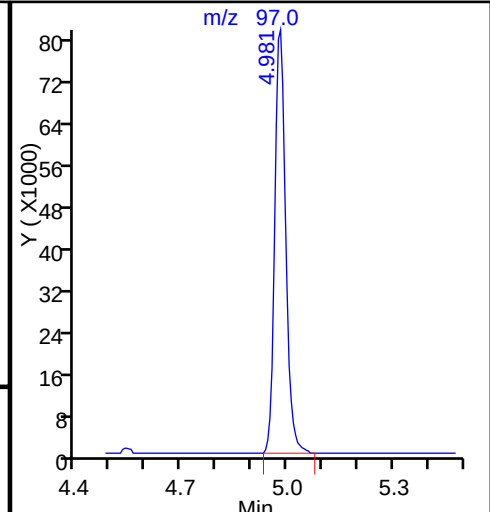
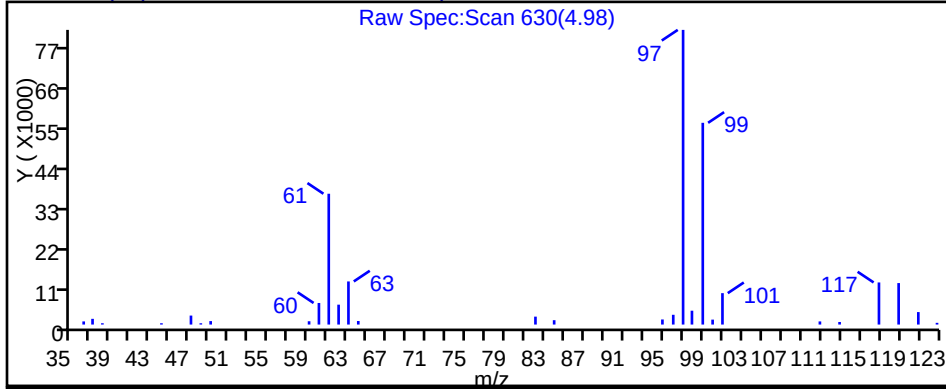
Dil. Factor: 5.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D

Injection Date: 02-Dec-2016 13:32:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-1

Lab Sample ID: 480-110191-1

Client ID: WELL 1-1

Operator ID: NEA

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

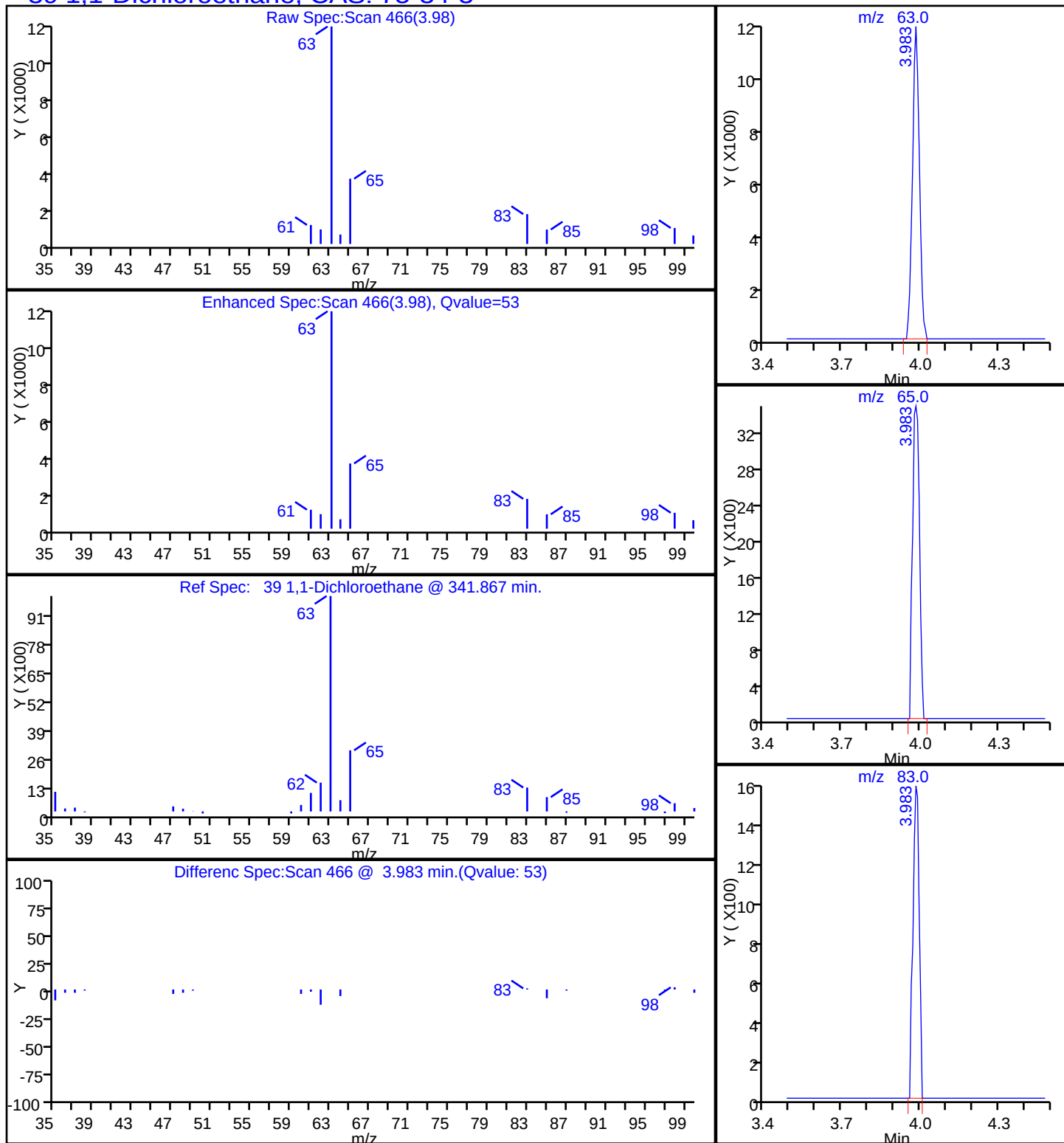
Method: S-8260

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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D

Injection Date: 02-Dec-2016 13:32:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-1

Lab Sample ID: 480-110191-1

Client ID: WELL 1-1

Operator ID: NEA

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

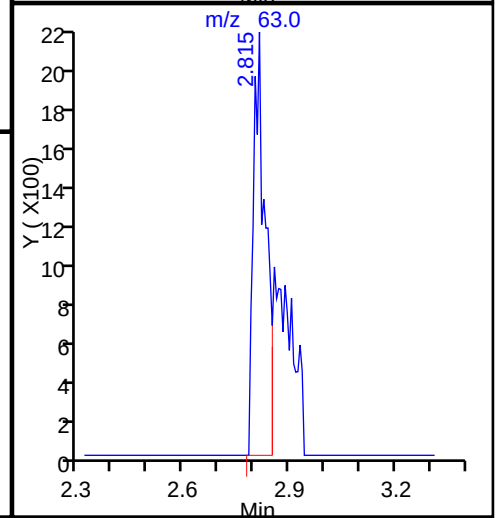
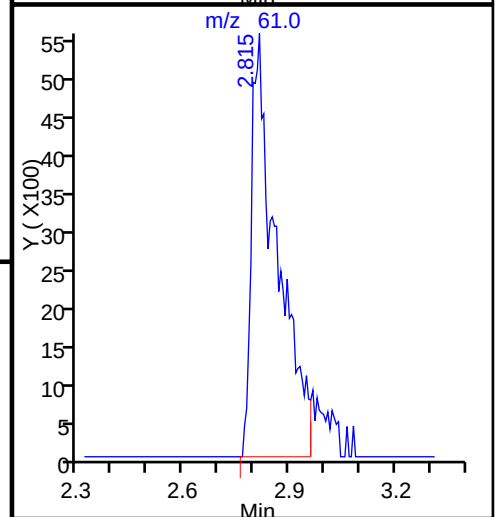
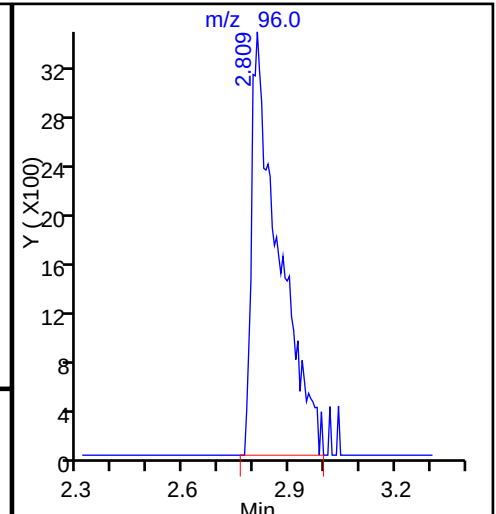
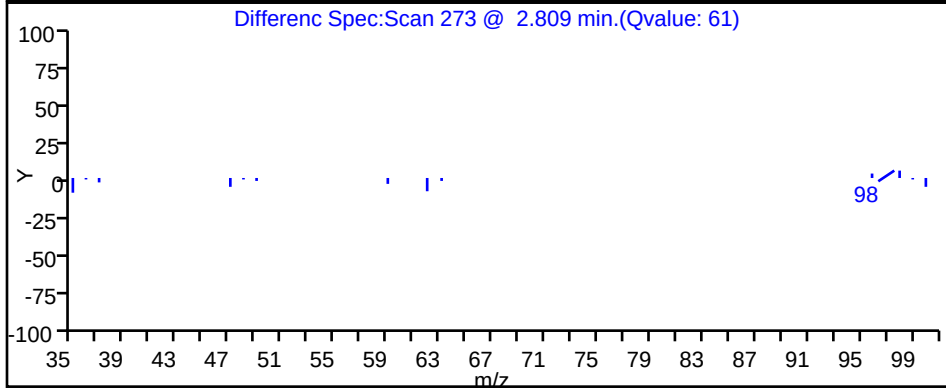
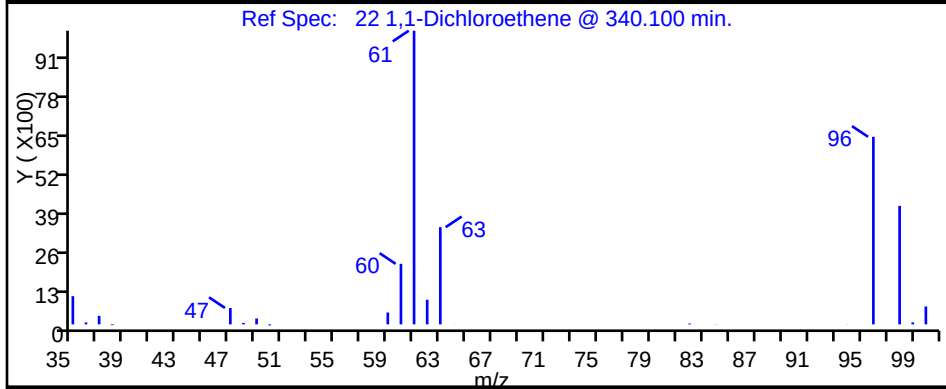
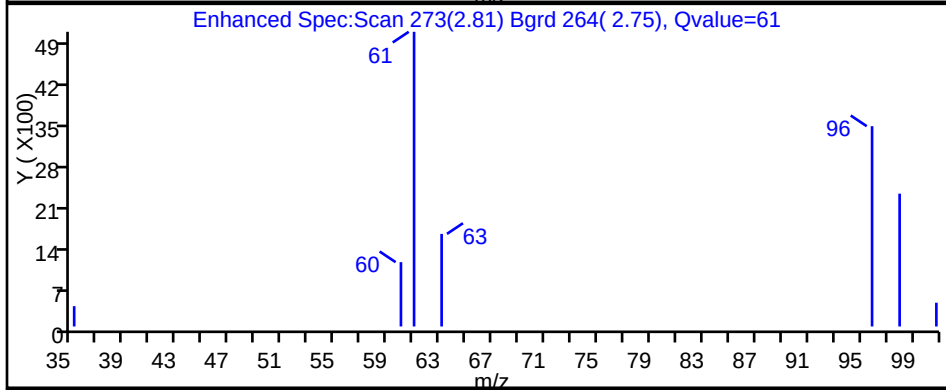
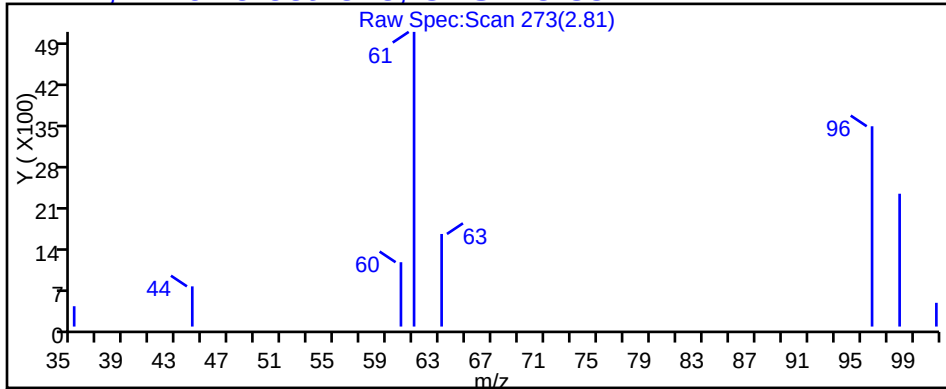
Dil. Factor: 5.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D

Injection Date: 02-Dec-2016 13:32:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-1

Lab Sample ID: 480-110191-1

Client ID: WELL 1-1

Operator ID: NEA

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

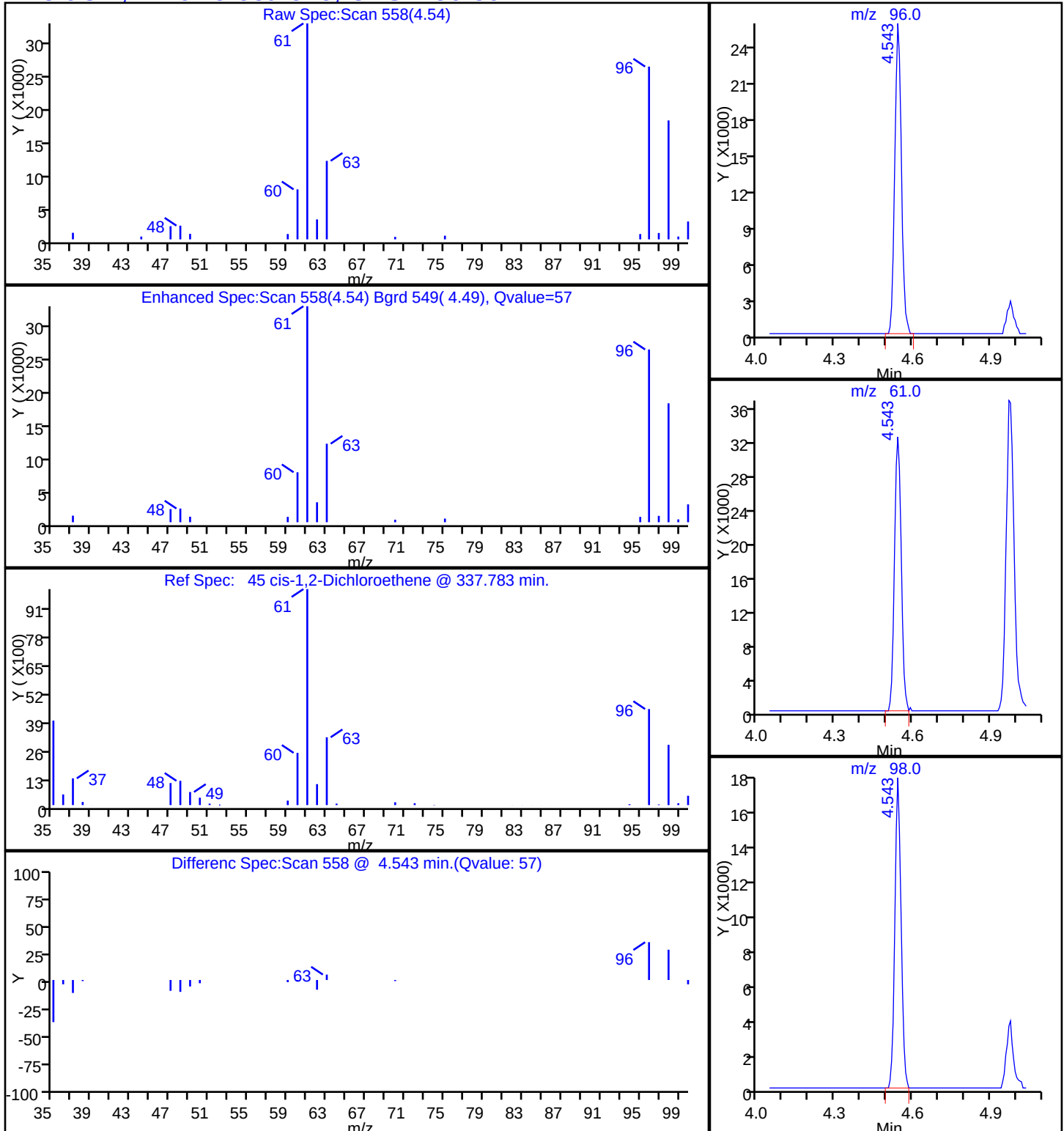
Dil. Factor: 5.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0258.D

Injection Date: 02-Dec-2016 13:32:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-1

Lab Sample ID: 480-110191-1

Client ID: WELL 1-1

Operator ID: NEA

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

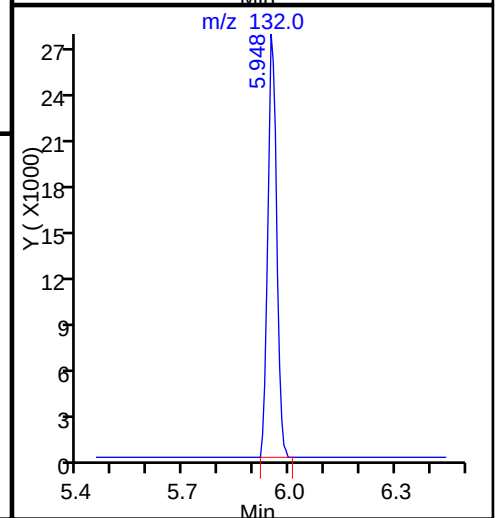
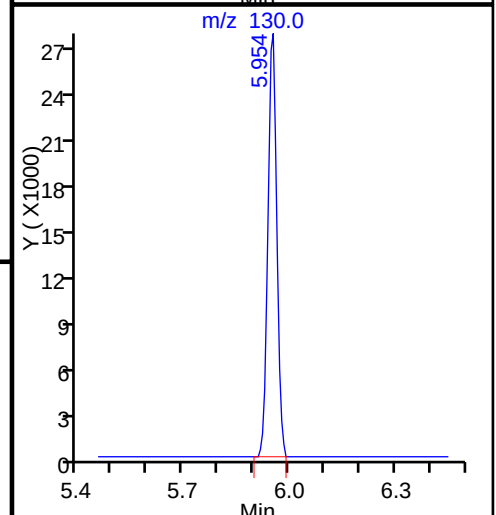
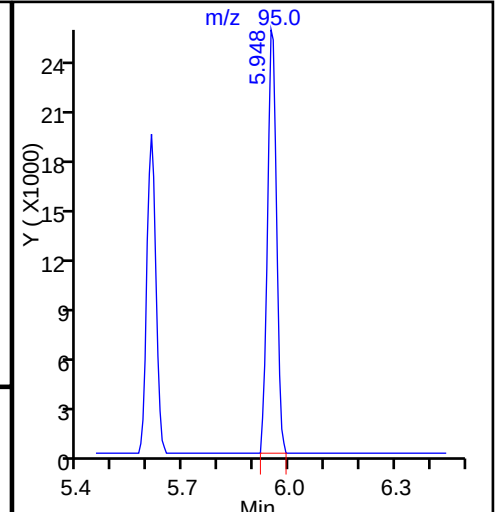
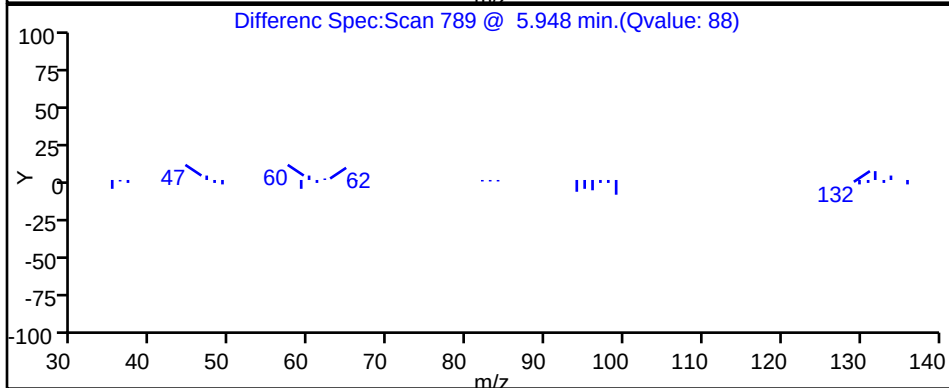
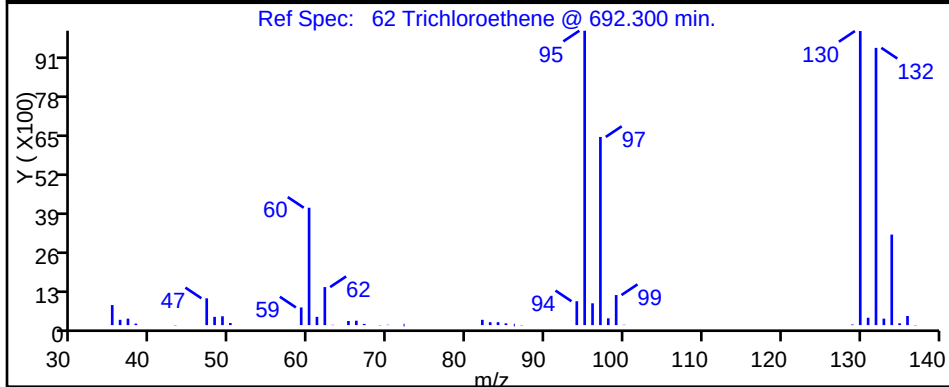
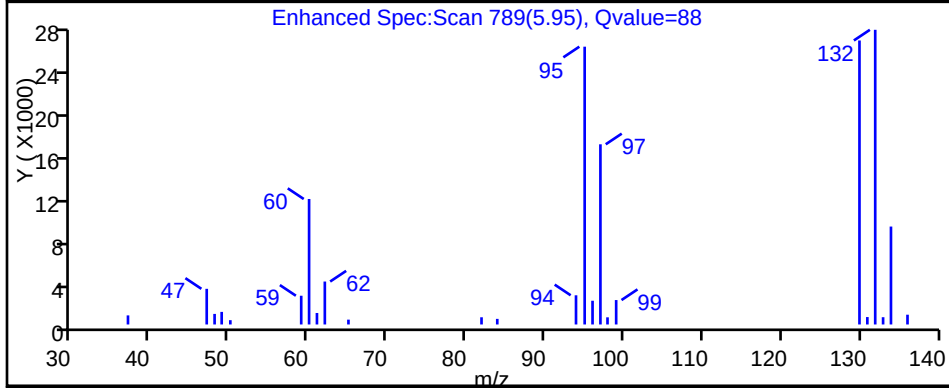
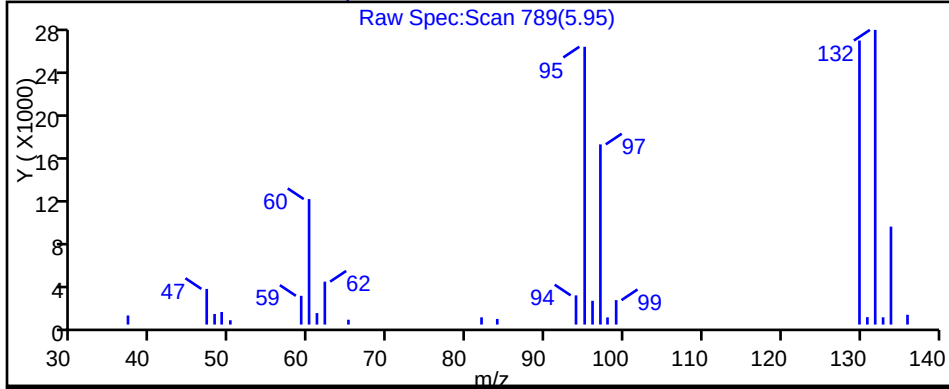
Dil. Factor: 5.0000

Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-9</u>	Lab Sample ID: <u>480-110191-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0259.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 13:55</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.3		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	1.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-9</u>	Lab Sample ID: <u>480-110191-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0259.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 13:55</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	0.81	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0259.D
 Lims ID: 480-110191-A-2
 Client ID: 4009-9
 Sample Type: Client
 Inject. Date: 02-Dec-2016 13:55:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-2
 Misc. Info.: 480-0058820-014
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:30:58 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:36:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78105	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	159926	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	160482	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	93237	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59726	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	398216	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	89	127184	24.0	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96	4.542	4.543	-0.001	81	69570	18.8	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	48	17680	1.28	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	38	2846	0.8133	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0259.D

Injection Date: 02-Dec-2016 13:55:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-2

Lab Sample ID: 480-110191-2

Worklist Smp#: 14

Client ID: 4009-9

Purge Vol: 5.000 mL

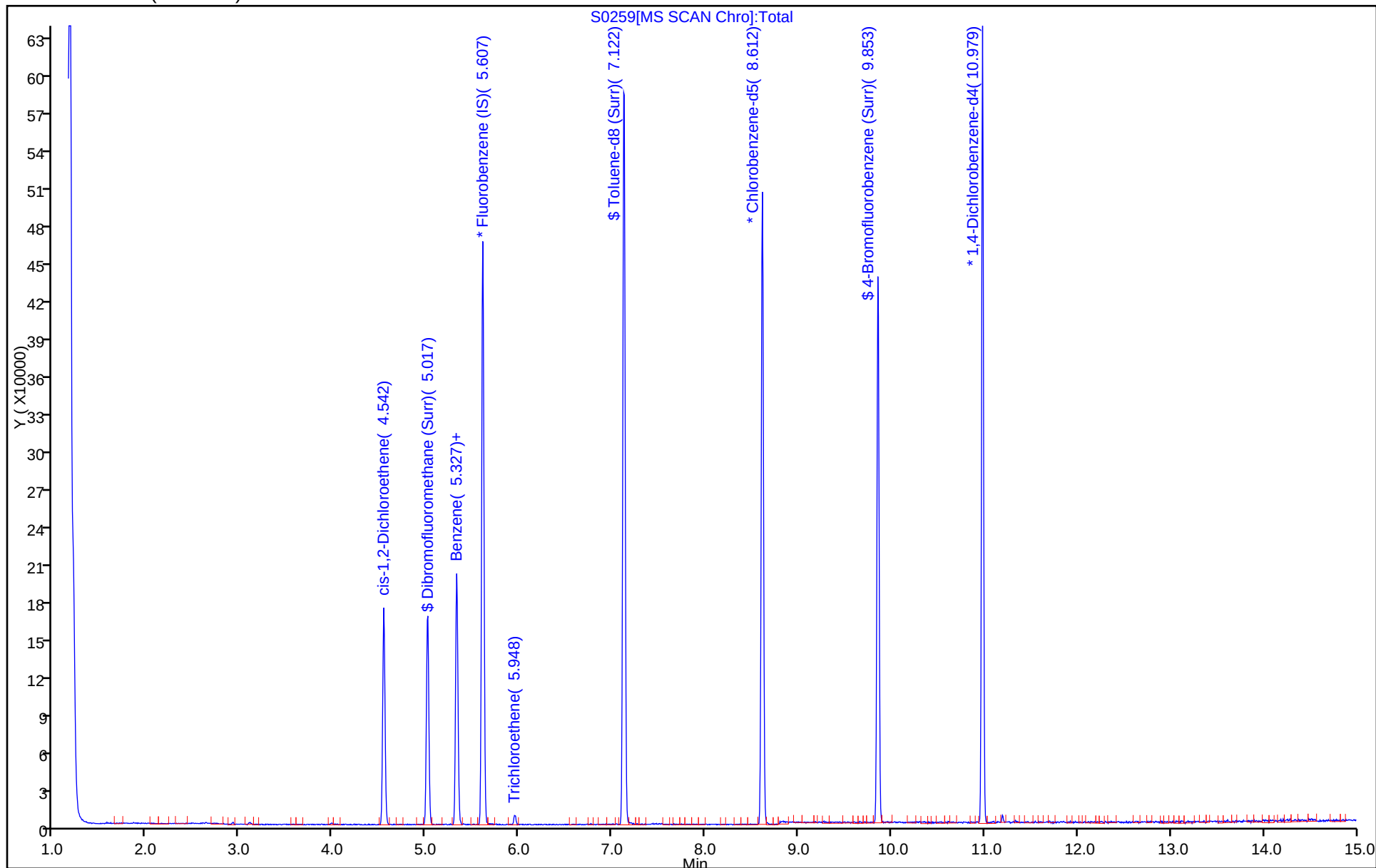
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0259.D

Injection Date: 02-Dec-2016 13:55:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-2

Lab Sample ID: 480-110191-2

Client ID: 4009-9

Operator ID: NEA

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

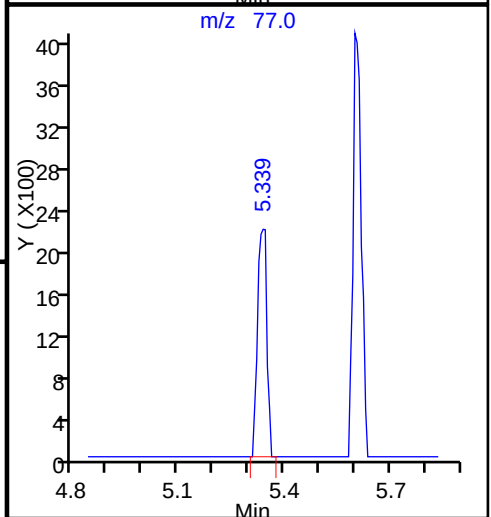
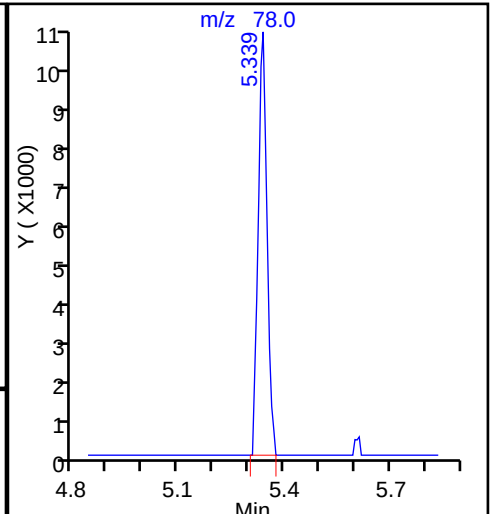
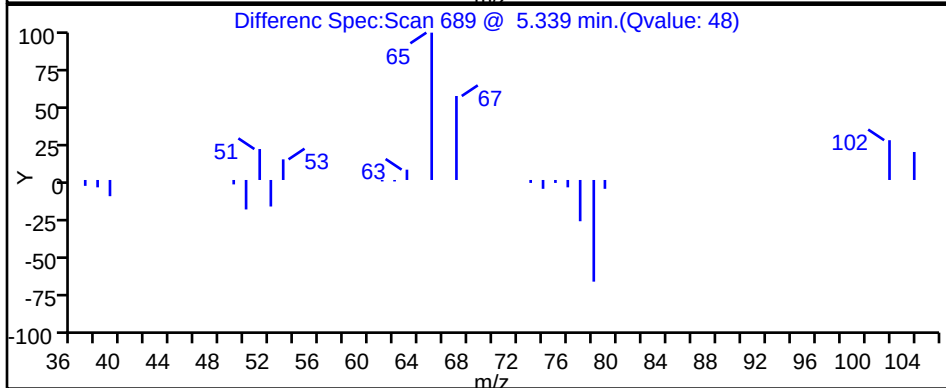
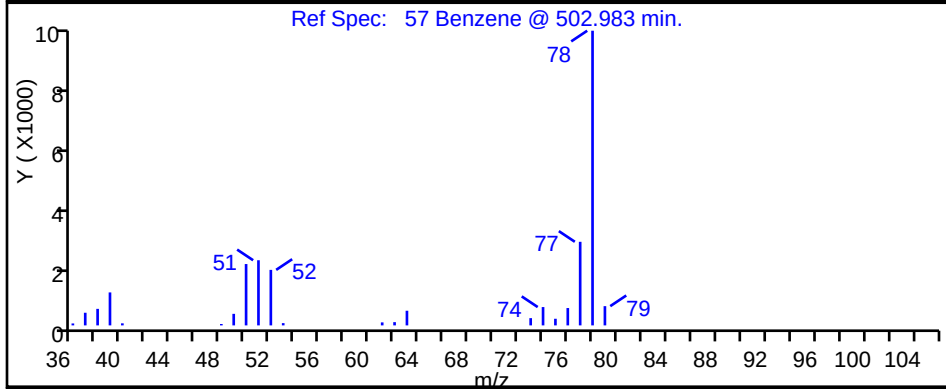
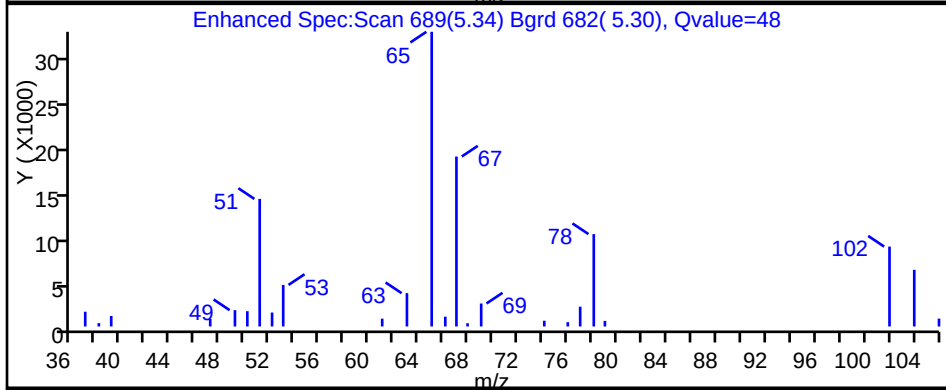
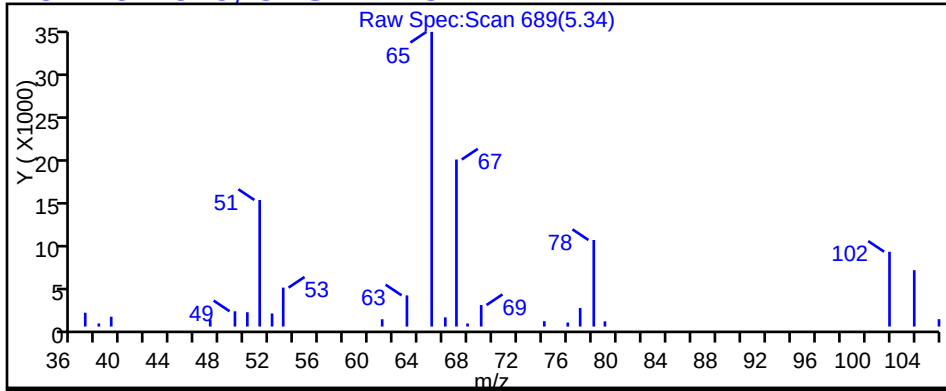
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0259.D

Injection Date: 02-Dec-2016 13:55:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-2

Lab Sample ID: 480-110191-2

Client ID: 4009-9

Operator ID: NEA

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

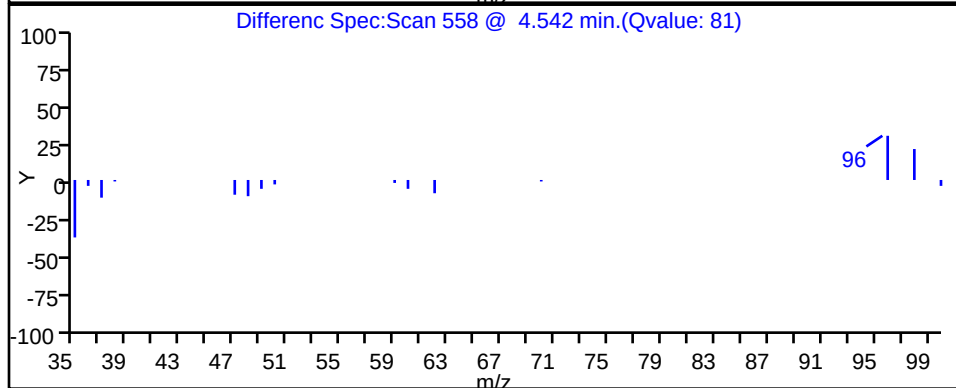
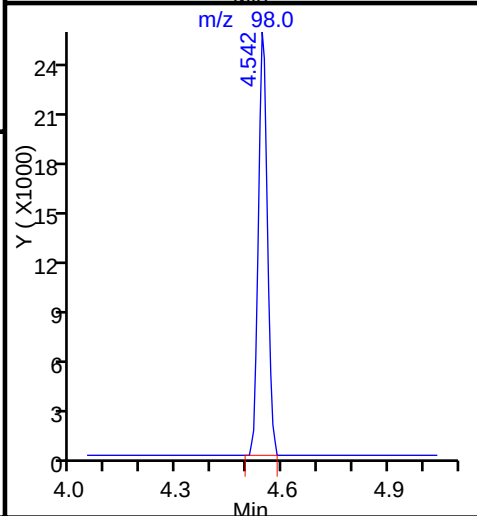
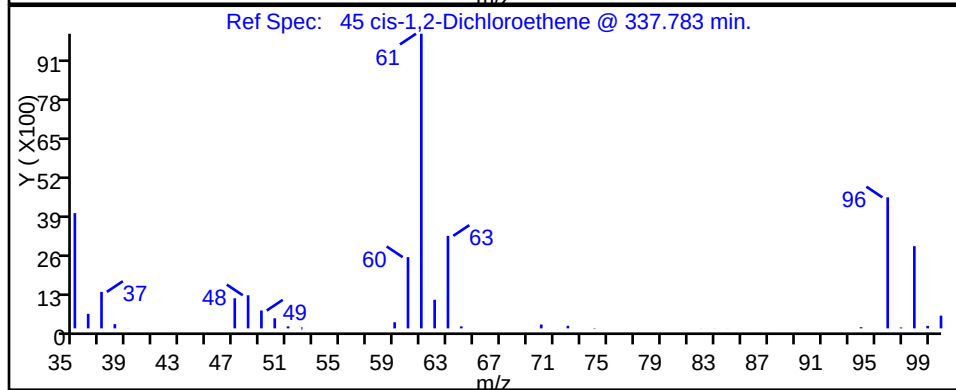
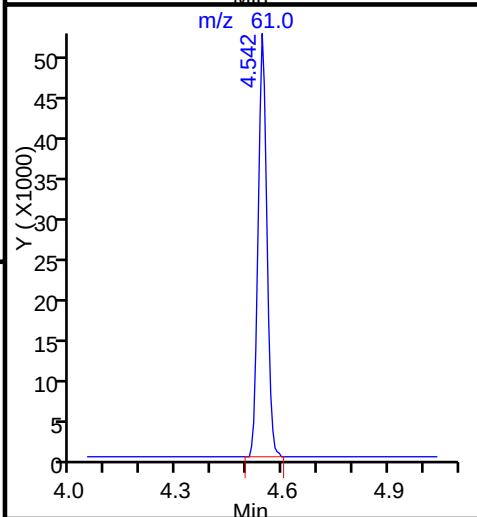
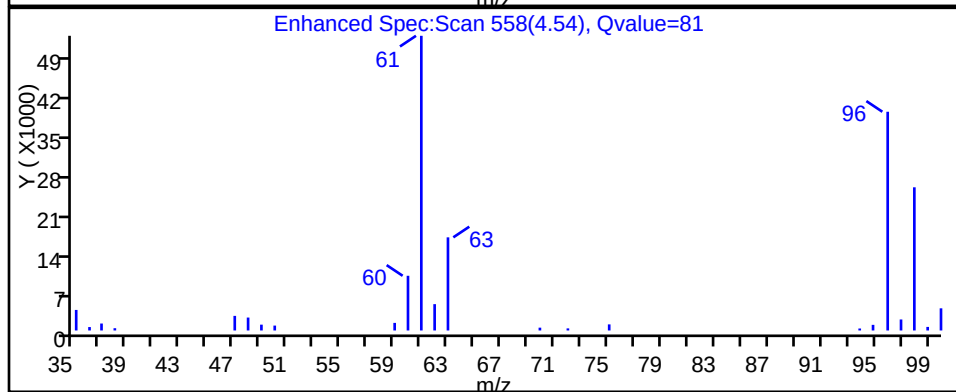
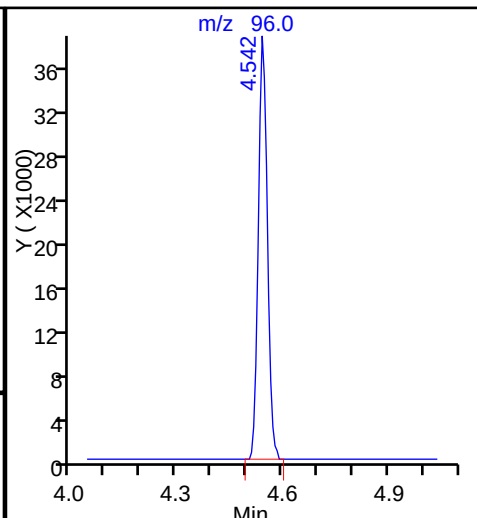
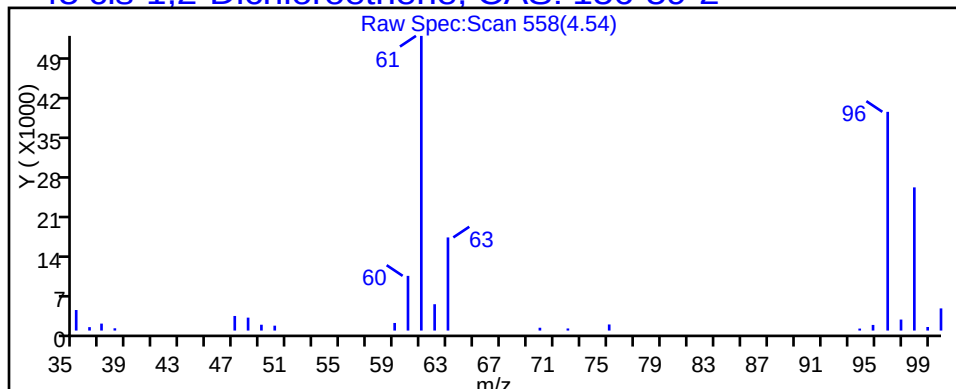
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0259.D

Injection Date: 02-Dec-2016 13:55:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-2

Lab Sample ID: 480-110191-2

Client ID: 4009-9

Operator ID: NEA

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

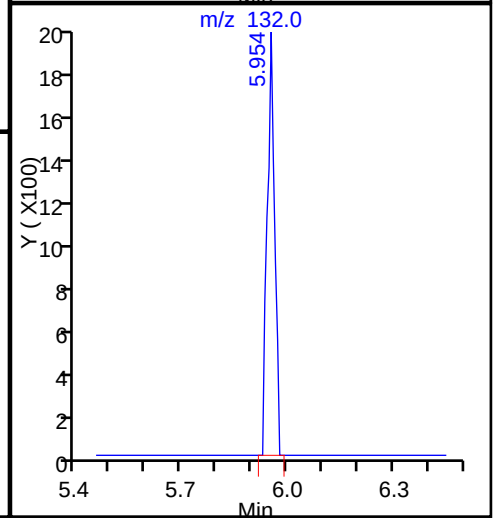
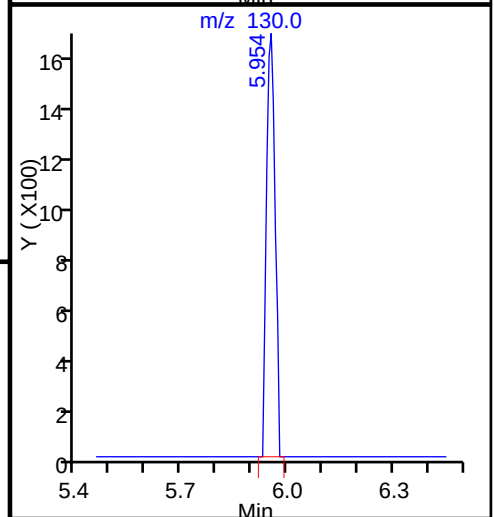
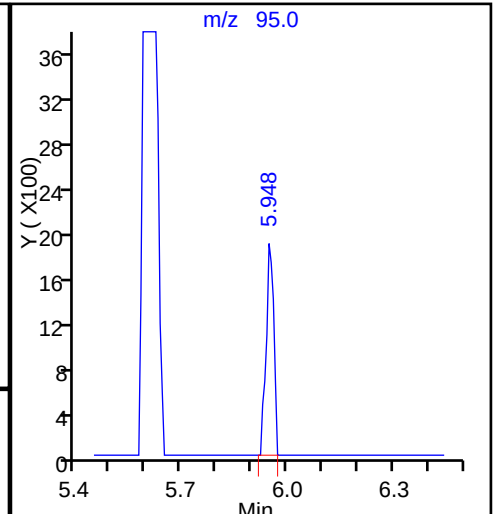
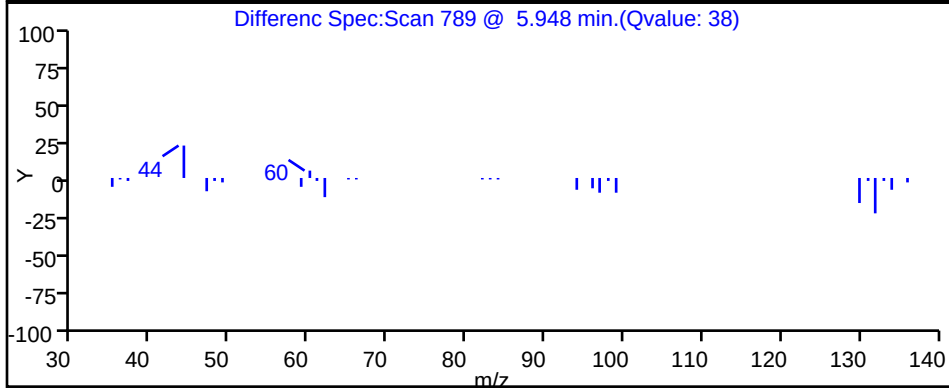
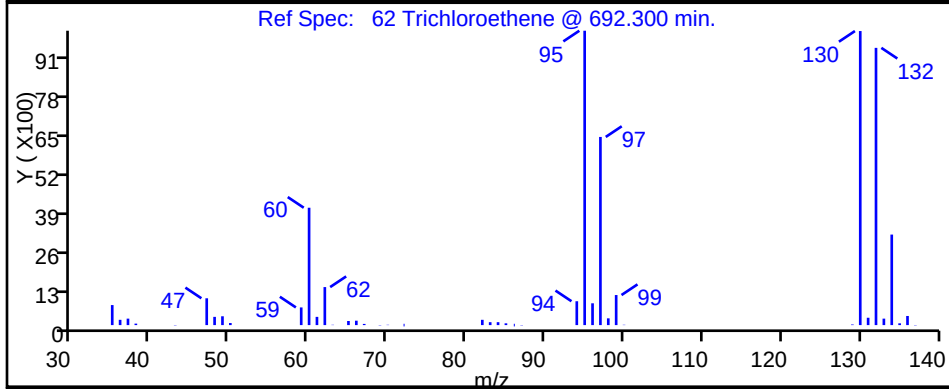
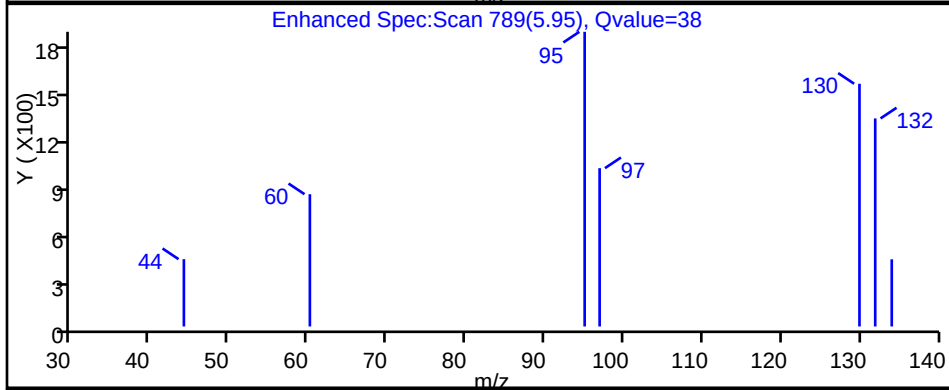
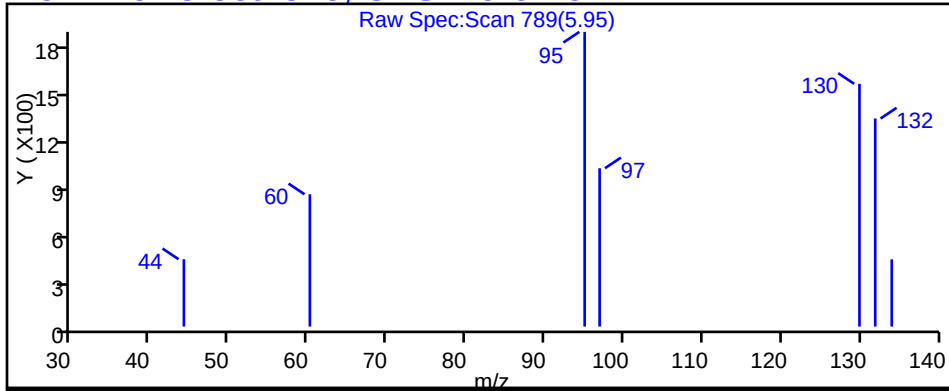
Dil. Factor: 1.0000

Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-10</u>	Lab Sample ID: <u>480-110191-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0260.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 14:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	3.4		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-10 Lab Sample ID: 480-110191-3
 Matrix: Water Lab File ID: S0260.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:45
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 14:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0260.D
 Lims ID: 480-110191-A-3
 Client ID: 4009-10
 Sample Type: Client
 Inject. Date: 02-Dec-2016 14:17:30 ALS Bottle#: 15 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-3
 Misc. Info.: 480-0058820-015
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:30:58 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:36:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76629	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	157695	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	155997	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	94557	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59380	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	393219	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.859	0.001	91	126581	24.3	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.340	5.333	0.007	77	46097	3.39	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0260.D

Injection Date: 02-Dec-2016 14:17:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-3

Lab Sample ID: 480-110191-3

Worklist Smp#: 15

Client ID: 4009-10

Purge Vol: 5.000 mL

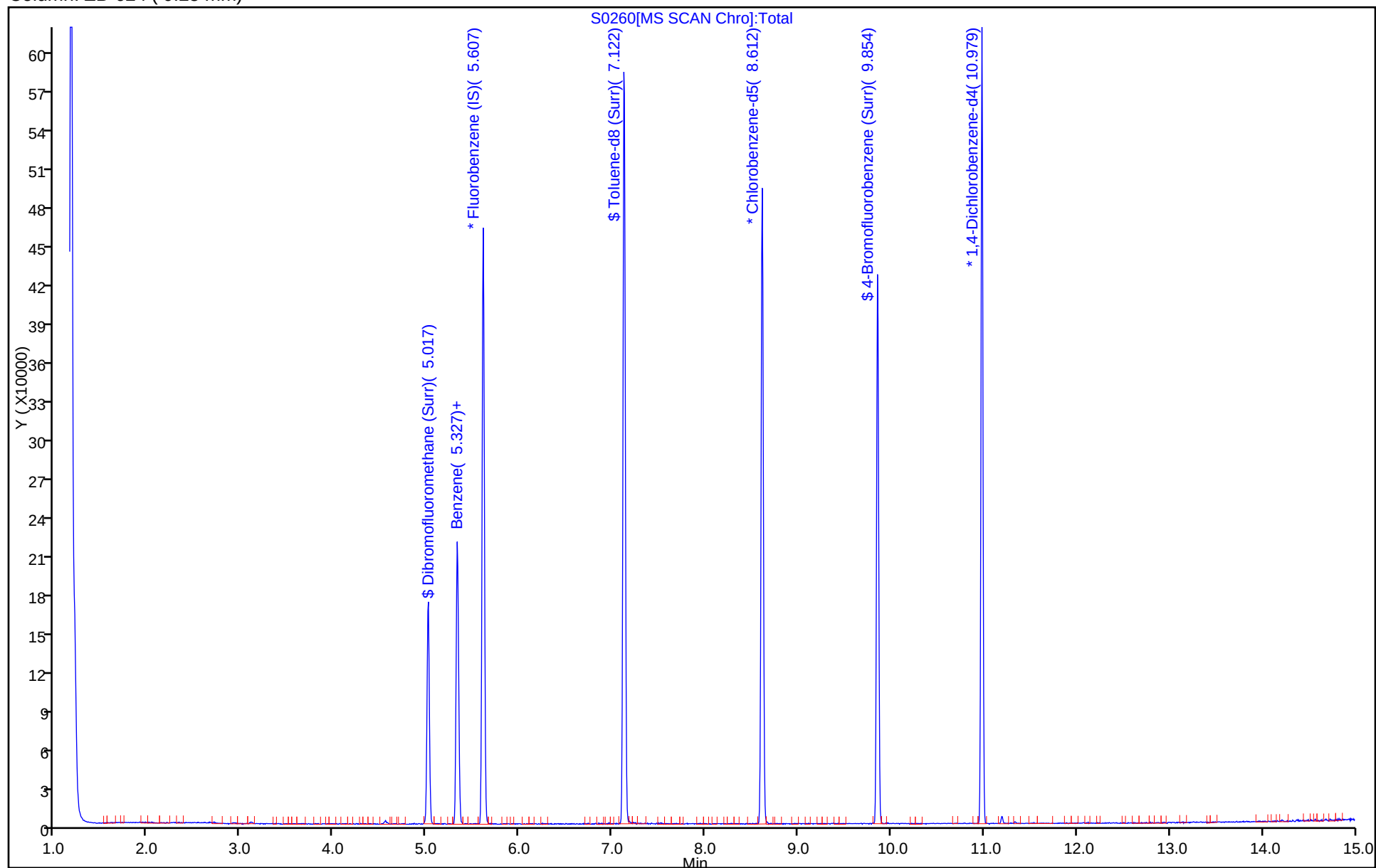
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0260.D

Injection Date: 02-Dec-2016 14:17:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-3

Lab Sample ID: 480-110191-3

Client ID: 4009-10

Operator ID: NEA

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

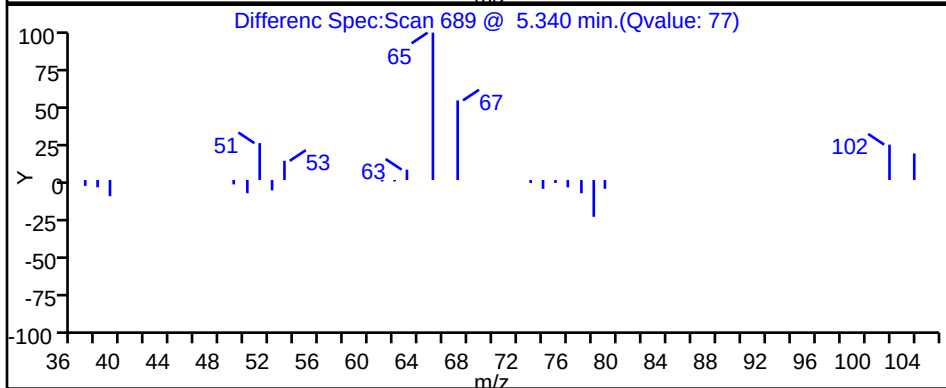
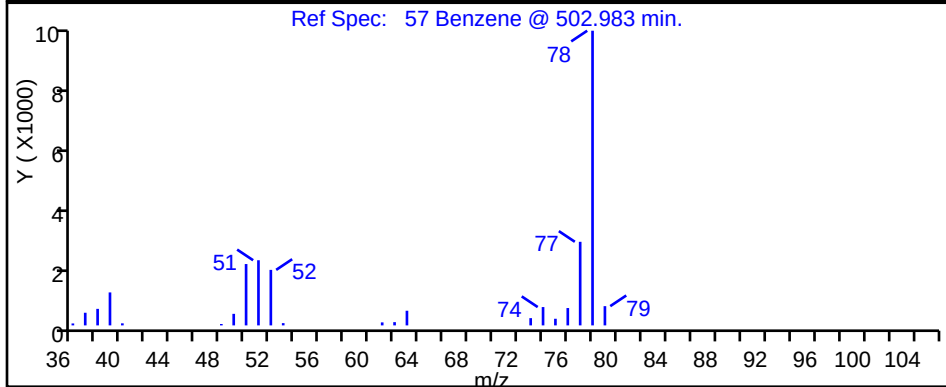
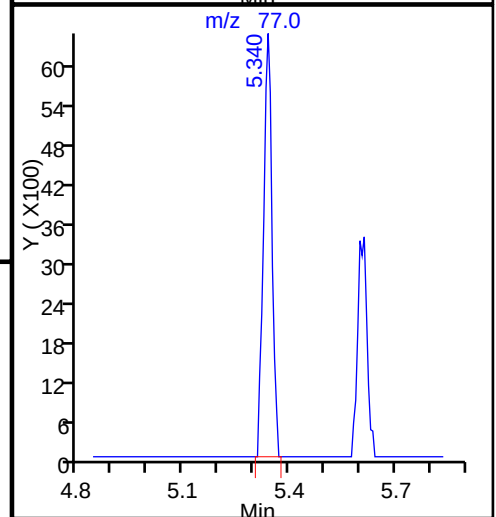
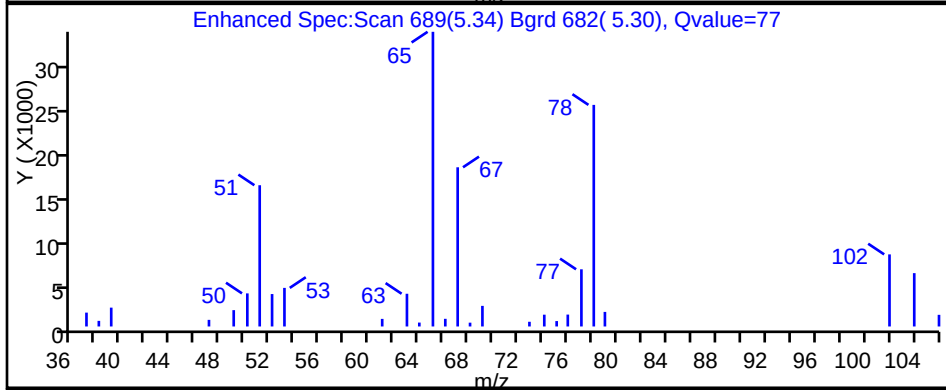
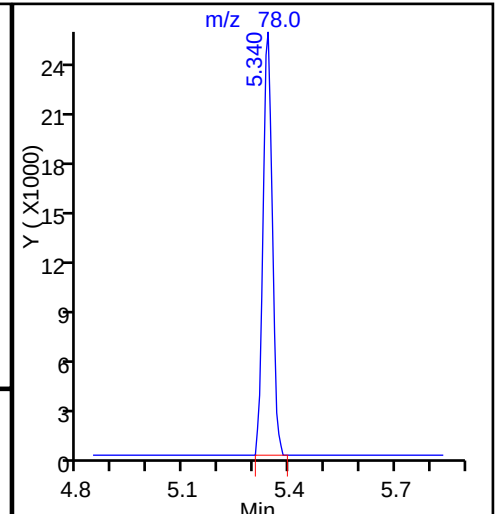
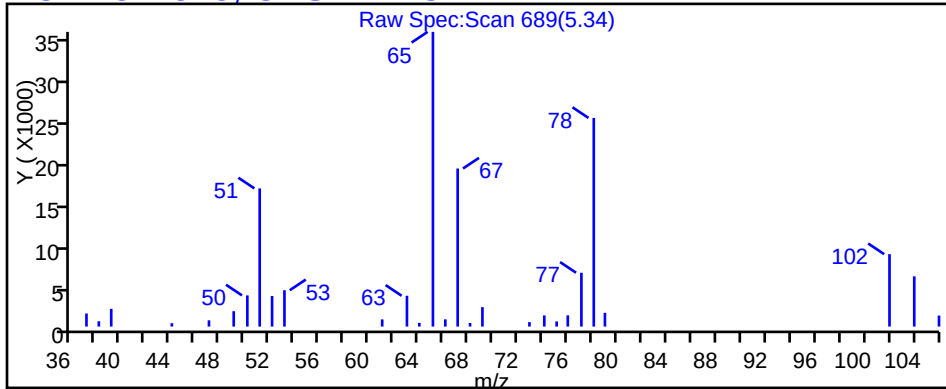
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-11 Lab Sample ID: 480-110191-4
 Matrix: Water Lab File ID: S0261.D
 Analysis Method: 8260C Date Collected: 11/28/2016 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 14:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	16		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-11 Lab Sample ID: 480-110191-4
 Matrix: Water Lab File ID: S0261.D
 Analysis Method: 8260C Date Collected: 11/28/2016 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 14:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	0.82	J	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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0261.D
 Lims ID: 480-110191-A-4
 Client ID: 4009-11
 Sample Type: Client
 Inject. Date: 02-Dec-2016 14:40:30 ALS Bottle#: 16 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-4
 Misc. Info.: 480-0058820-016
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:30:58 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:38:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78539	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	81	157804	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	95	158093	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	93644	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59876	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	392474	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	88	126235	24.2	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43	2.918	2.912	0.006	20	2665	2.02	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.983	0.000	52	12501	2.06	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	95	218390	15.7	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92	7.195	7.189	0.006	68	7362	0.8175	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0261.D

Injection Date: 02-Dec-2016 14:40:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-4

Lab Sample ID: 480-110191-4

Worklist Smp#: 16

Client ID: 4009-11

Purge Vol: 5.000 mL

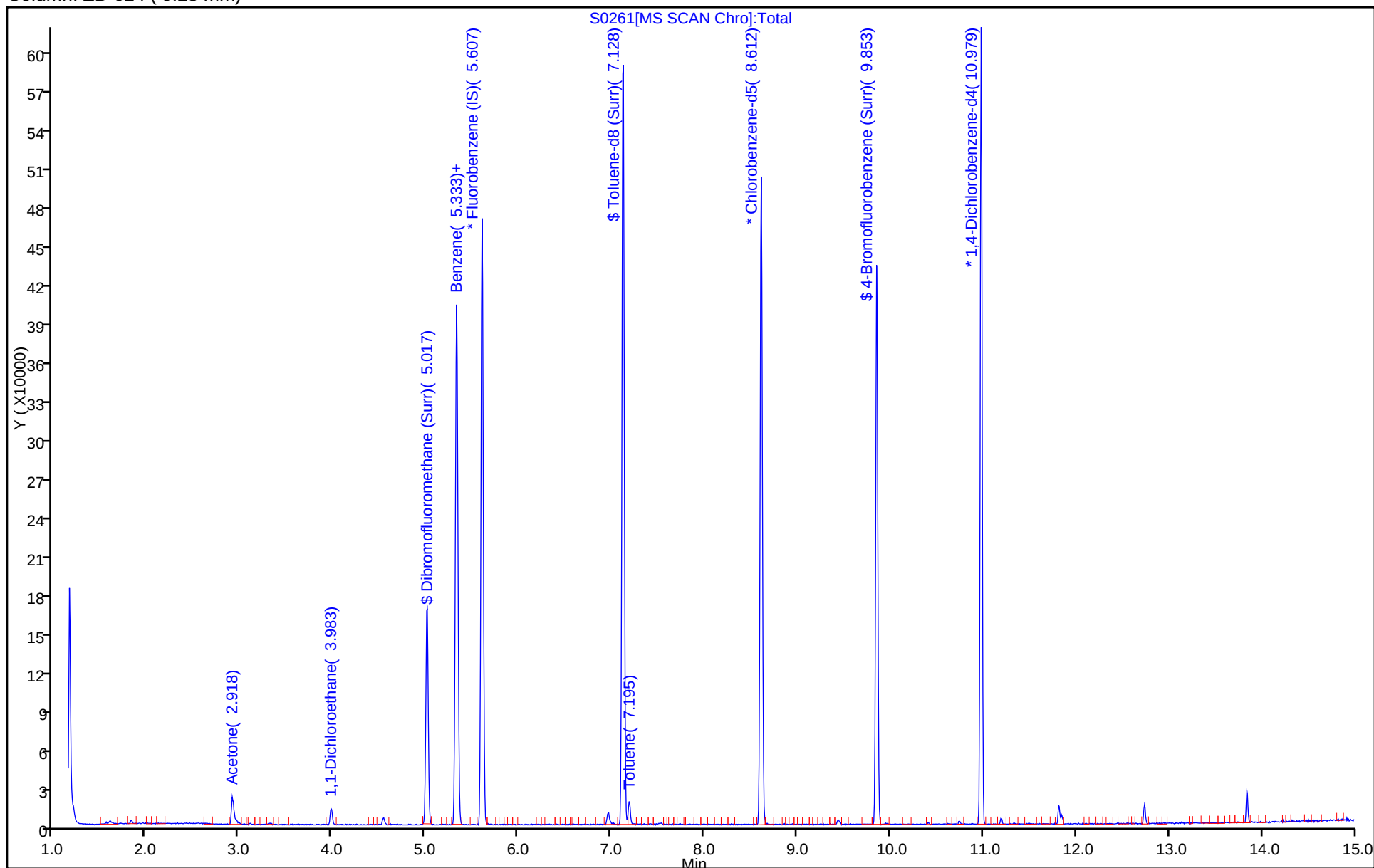
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: S-8260

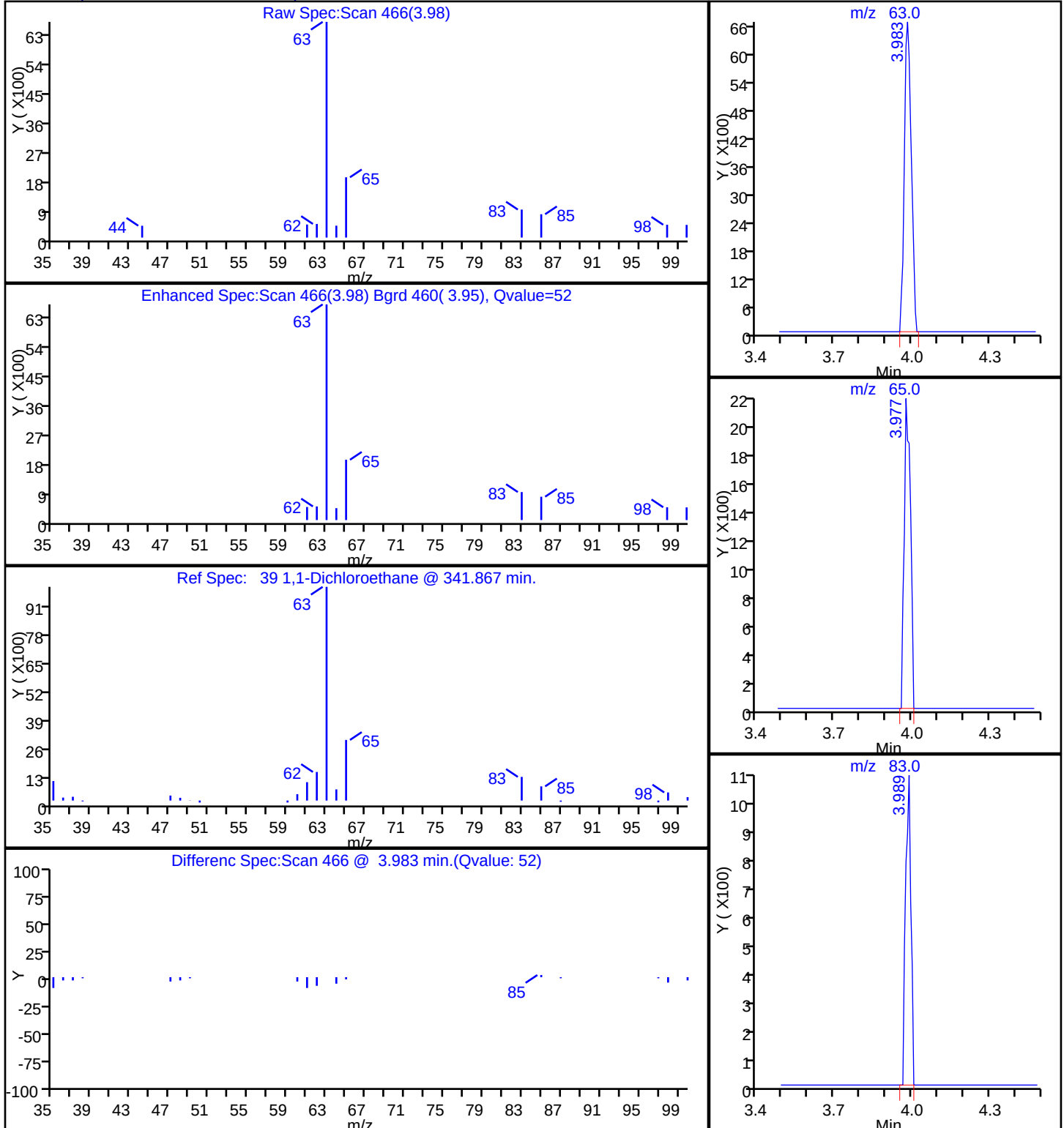
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0261.D
Injection Date: 02-Dec-2016 14:40:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-4 Lab Sample ID: 480-110191-4
Client ID: 4009-11
Operator ID: NEA ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0261.D

Injection Date: 02-Dec-2016 14:40:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-4

Lab Sample ID: 480-110191-4

Client ID: 4009-11

Operator ID: NEA

ALS Bottle#: 16

Worklist Smp#: 16

Purge Vol: 5.000 mL

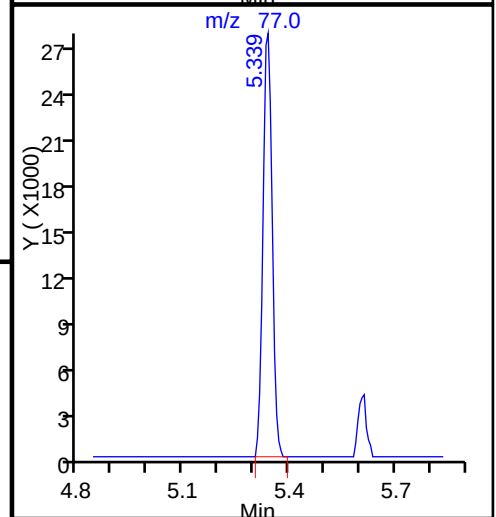
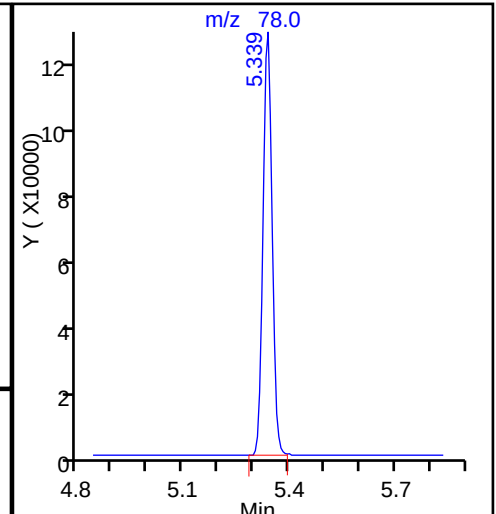
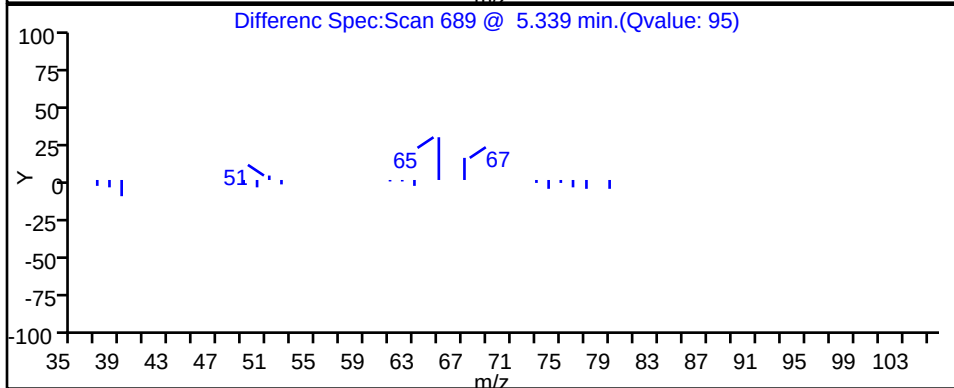
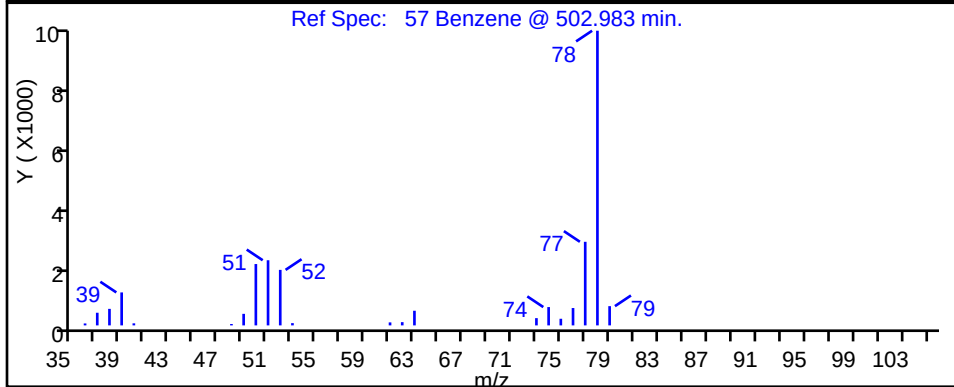
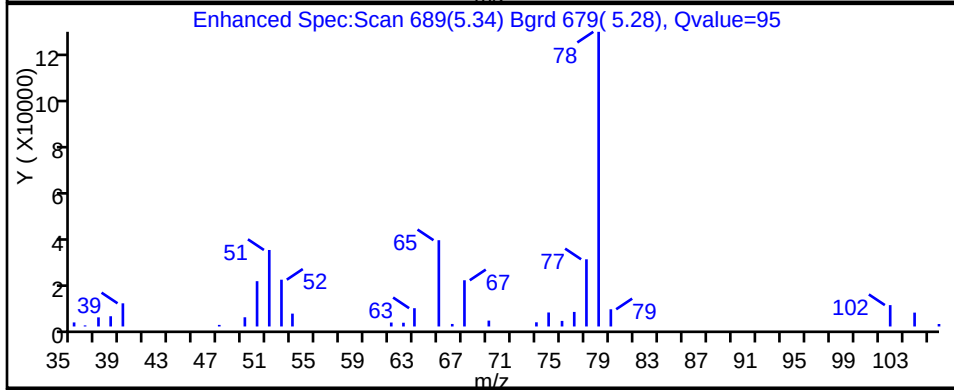
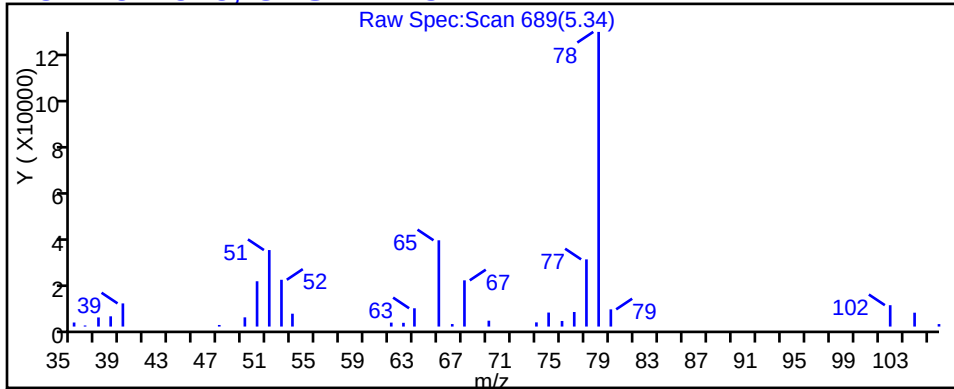
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

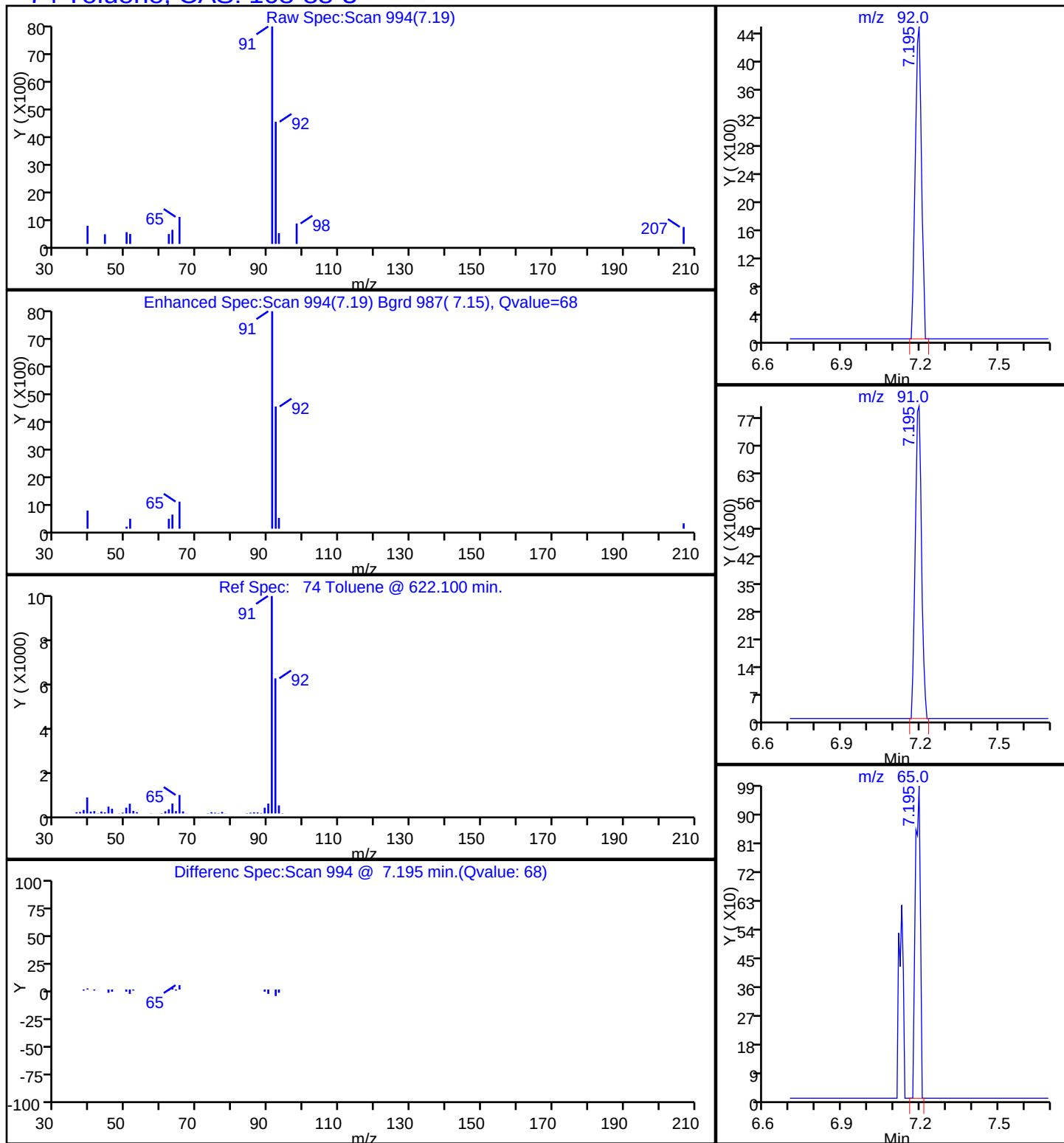
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0261.D
Injection Date: 02-Dec-2016 14:40:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-4 Lab Sample ID: 480-110191-4
Client ID: 4009-11
Operator ID: NEA ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

74 Toluene, CAS: 108-88-3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-12</u>	Lab Sample ID: <u>480-110191-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0262.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 13:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 15:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	2.9		1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	9.1		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	0.95	J	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-12 Lab Sample ID: 480-110191-5
 Matrix: Water Lab File ID: S0262.D
 Analysis Method: 8260C Date Collected: 11/28/2016 13:05
 Sample wt/vol: 5(mL) Date Analyzed: 12/02/2016 15:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	0.60	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.6		1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D
 Lims ID: 480-110191-A-5
 Client ID: 4009-12
 Sample Type: Client
 Inject. Date: 02-Dec-2016 15:04:30 ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-5
 Misc. Info.: 480-0058820-017
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:30:58 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:39:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77843	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	158147	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	155138	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	56	94356	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60659	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	401815	25.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	91	126430	24.2	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62	1.604	1.604	0.000	20	4874	1.57	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.983	0.000	52	17498	2.91	
45 cis-1,2-Dichloroethene	96	4.548	4.543	0.005	11	3519	0.9518	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	94	125299	9.08	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	35	2102	0.6027	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D

Injection Date: 02-Dec-2016 15:04:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-5

Lab Sample ID: 480-110191-5

Worklist Smp#: 17

Client ID: 4009-12

Purge Vol: 5.000 mL

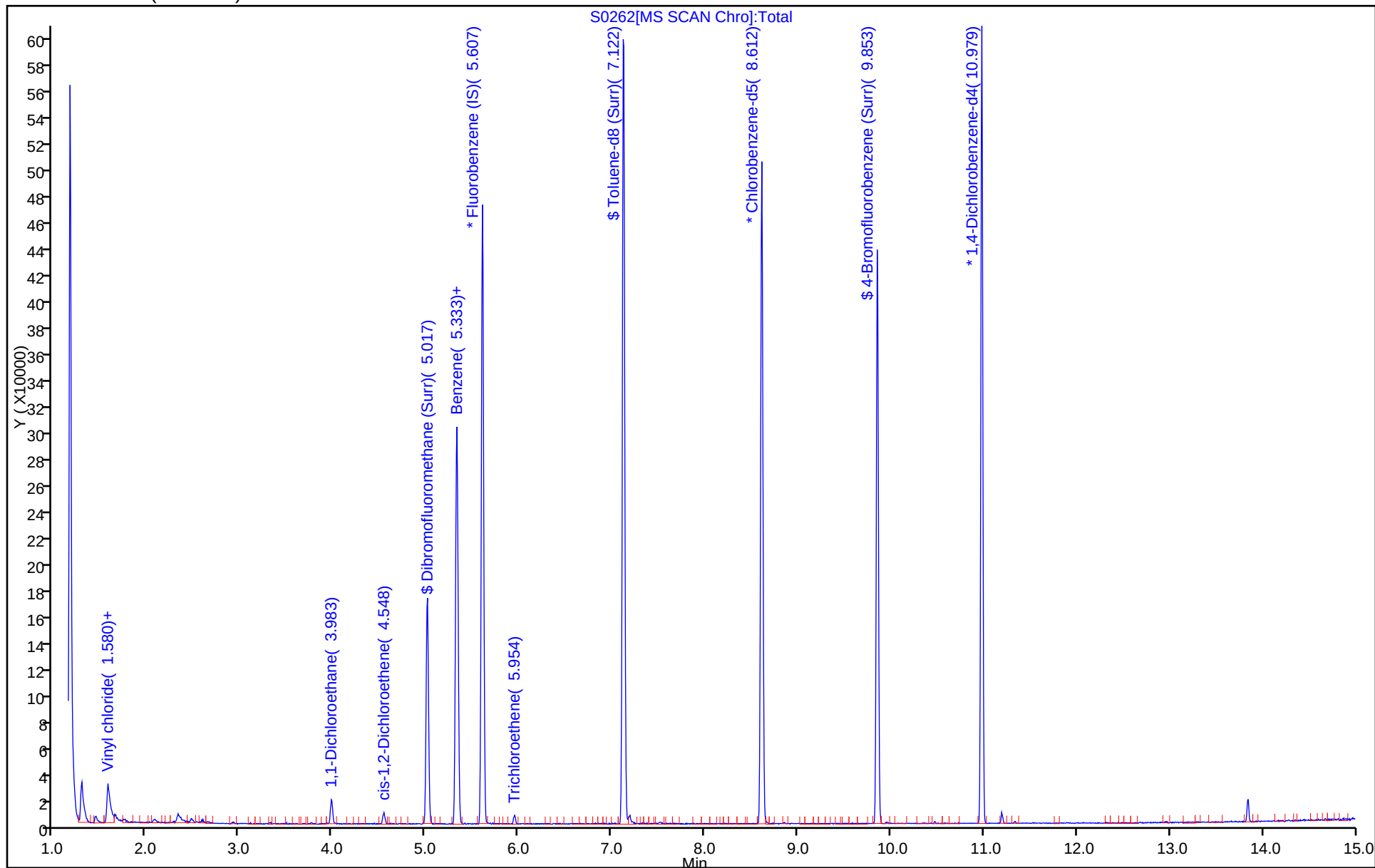
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D

Injection Date: 02-Dec-2016 15:04:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-5

Lab Sample ID: 480-110191-5

Client ID: 4009-12

Operator ID: NEA

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

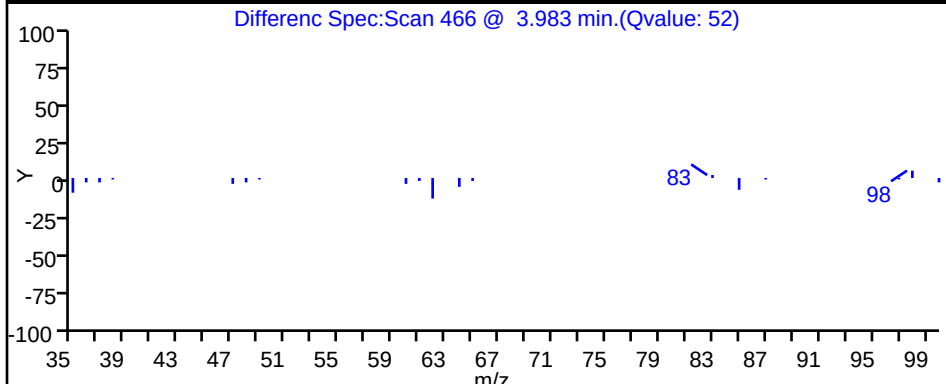
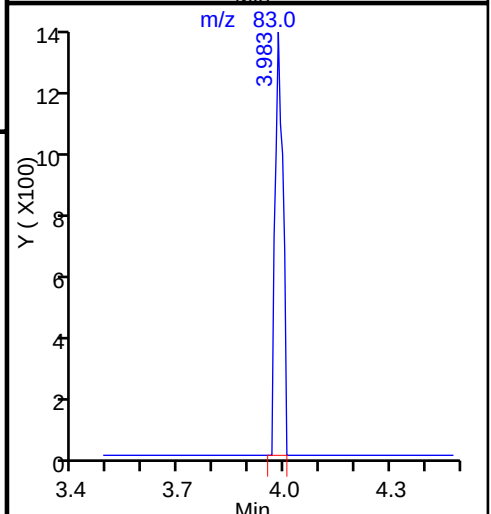
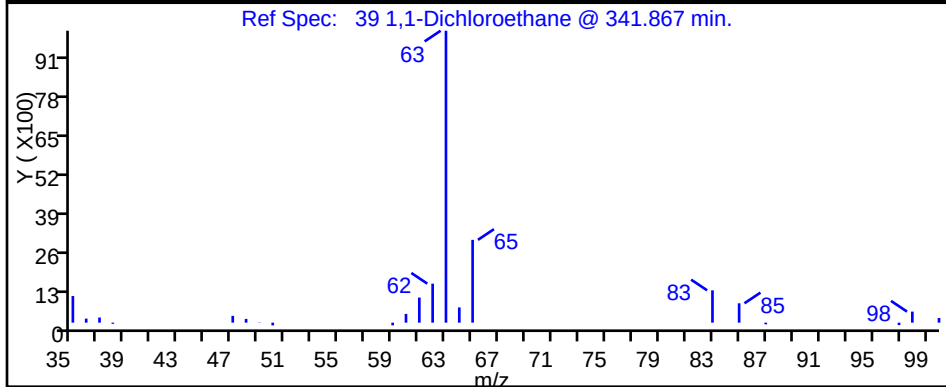
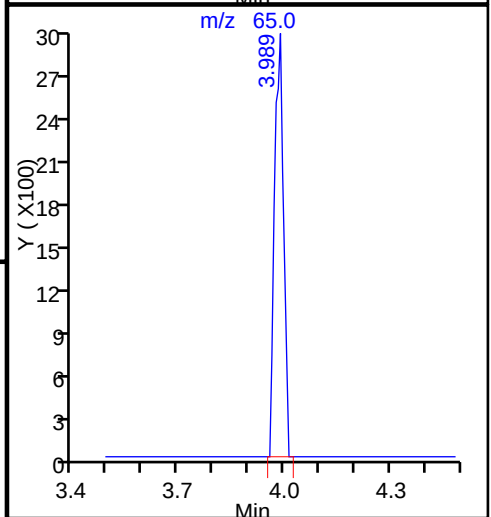
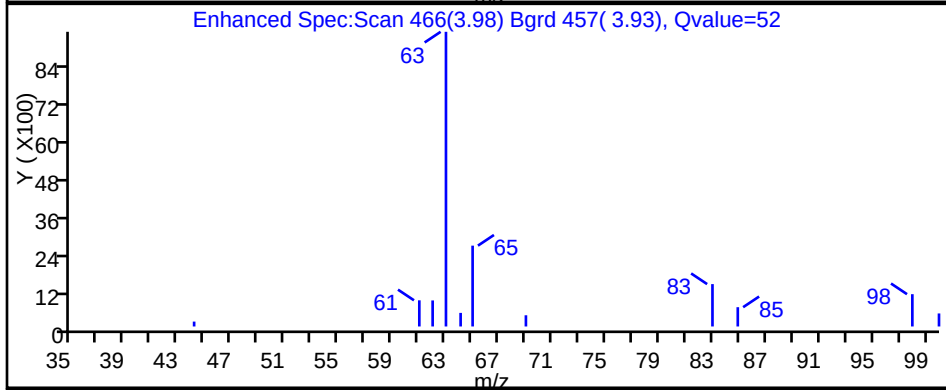
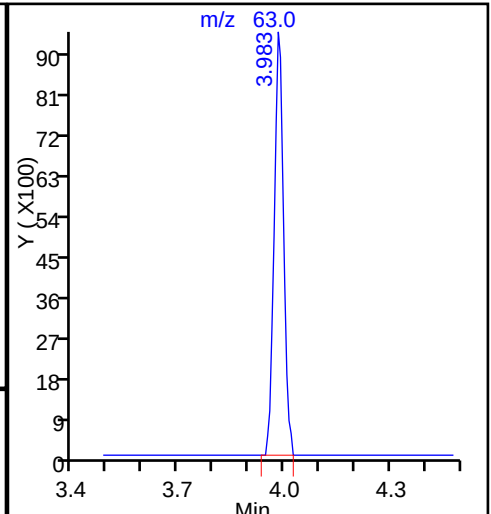
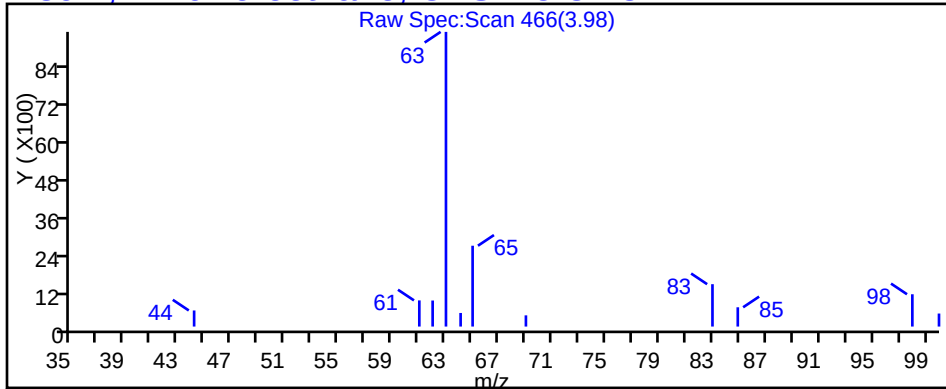
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D

Injection Date: 02-Dec-2016 15:04:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-5

Lab Sample ID: 480-110191-5

Client ID: 4009-12

Operator ID: NEA

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

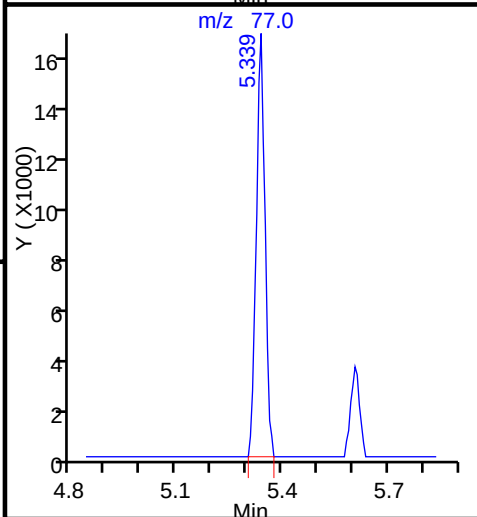
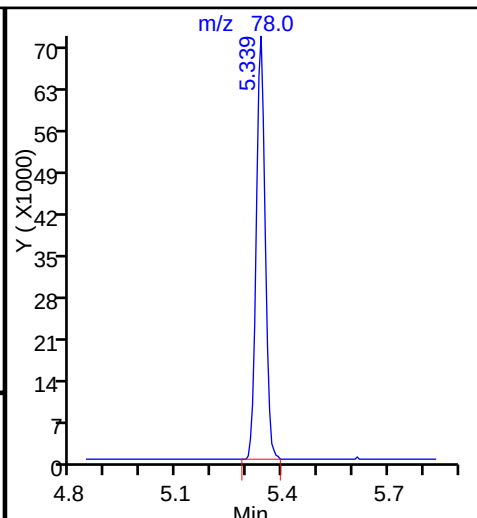
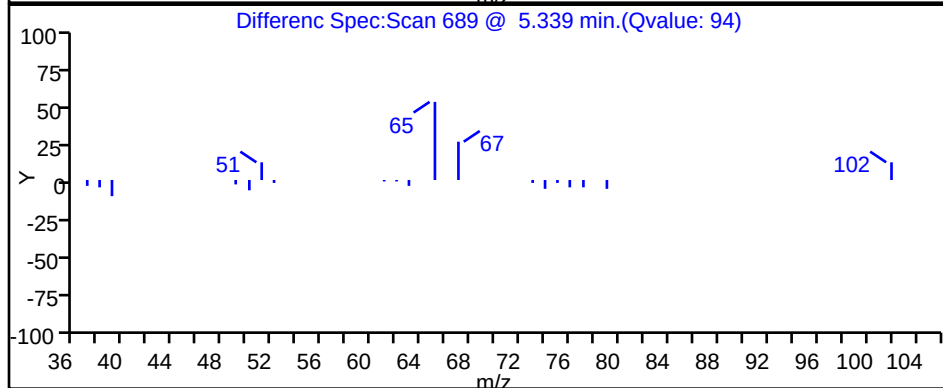
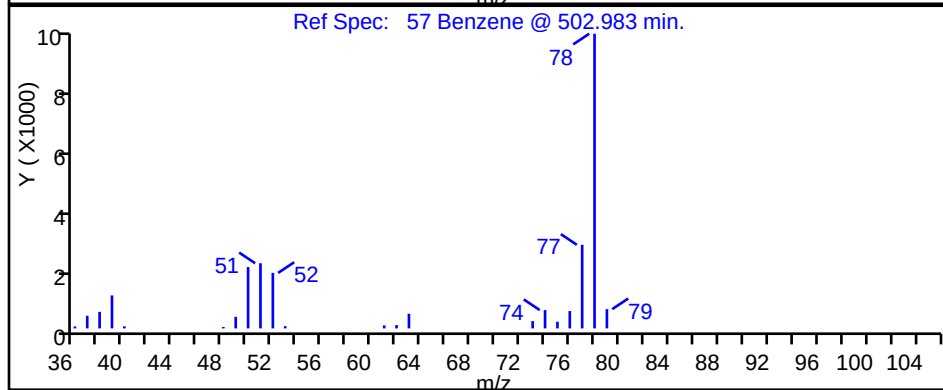
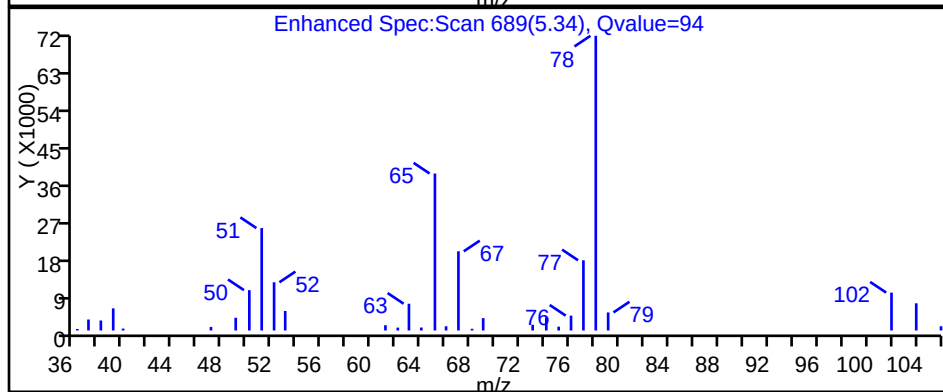
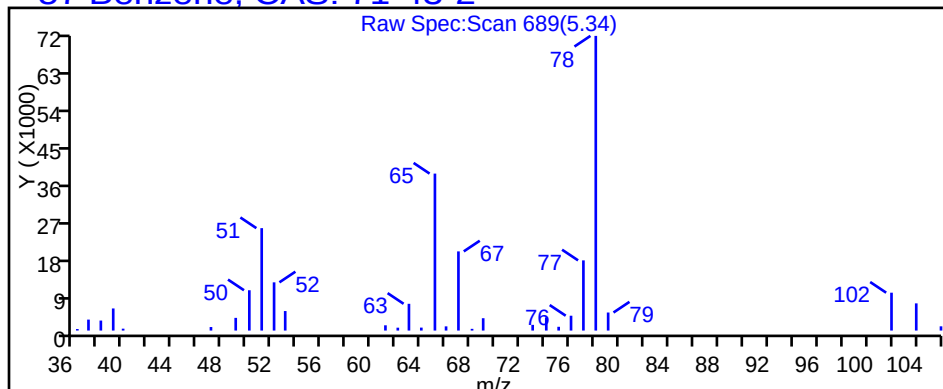
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D

Injection Date: 02-Dec-2016 15:04:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-5

Lab Sample ID: 480-110191-5

Client ID: 4009-12

Operator ID: NEA

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

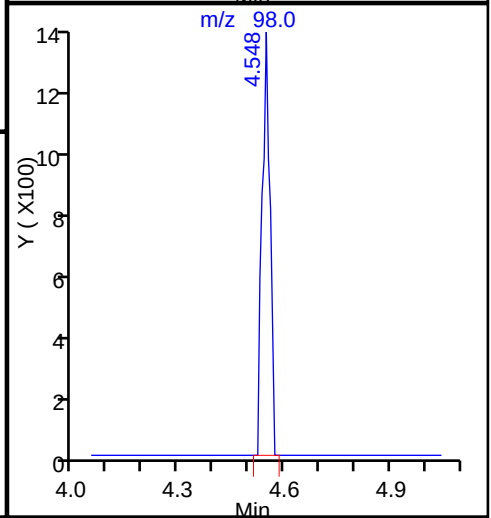
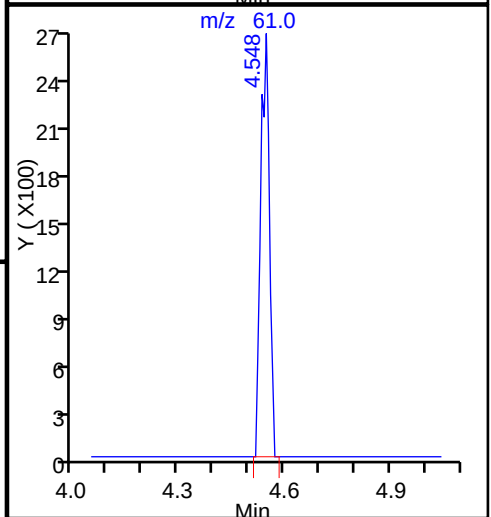
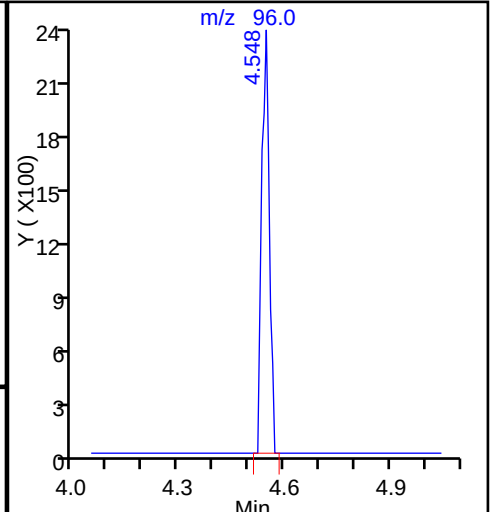
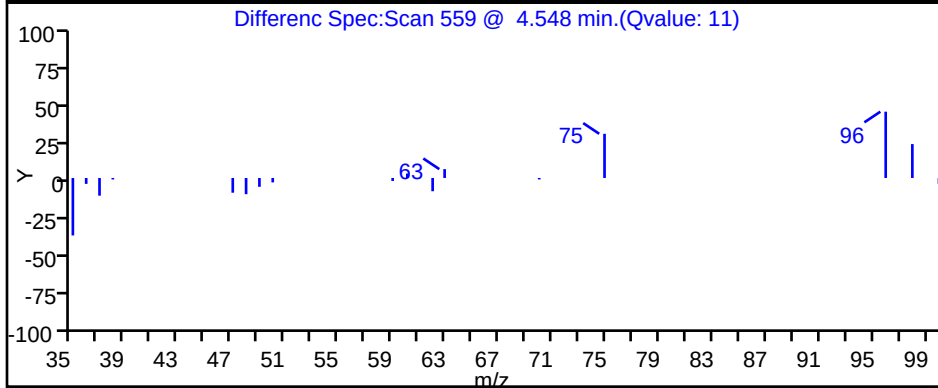
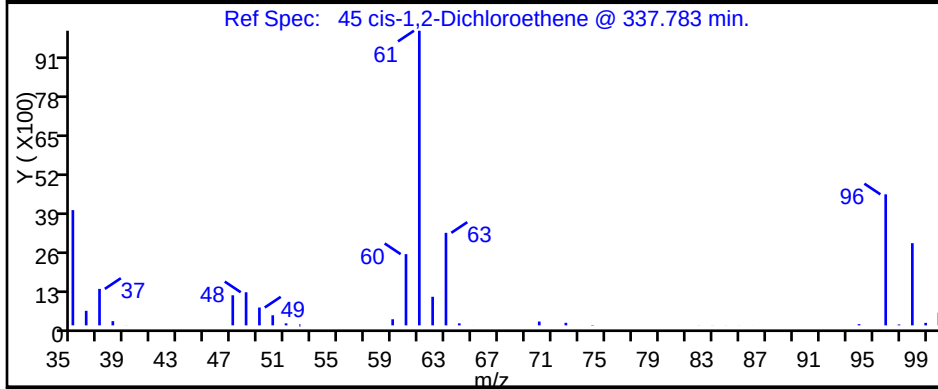
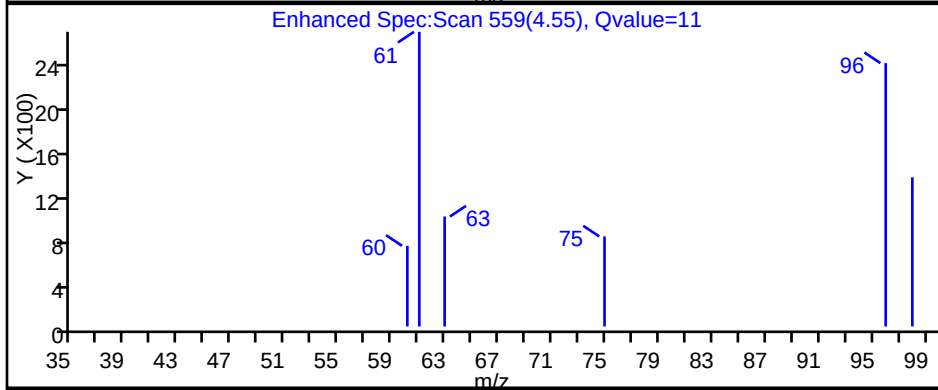
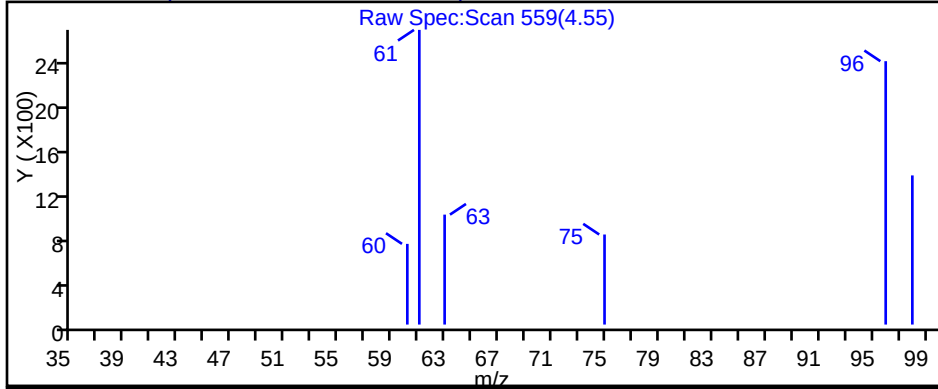
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D

Injection Date: 02-Dec-2016 15:04:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-5

Lab Sample ID: 480-110191-5

Client ID: 4009-12

Operator ID: NEA

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

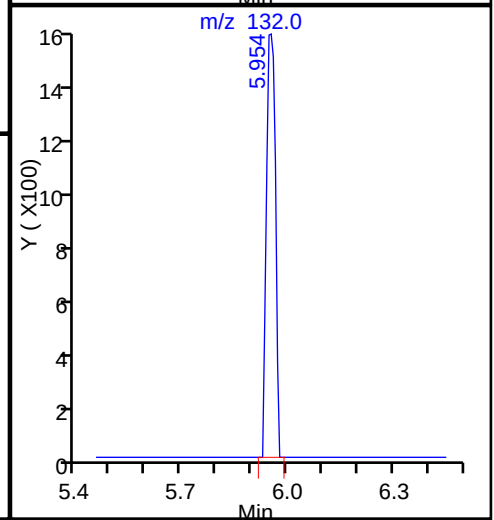
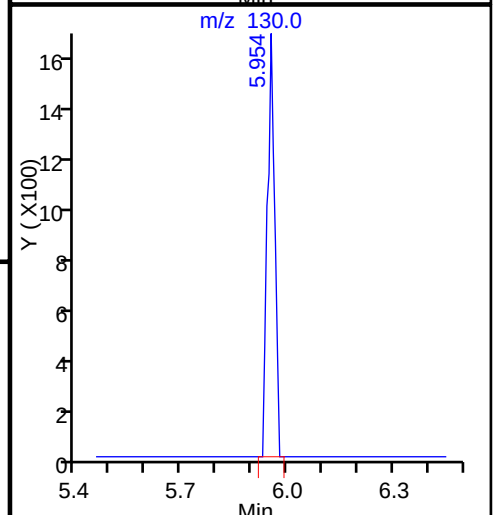
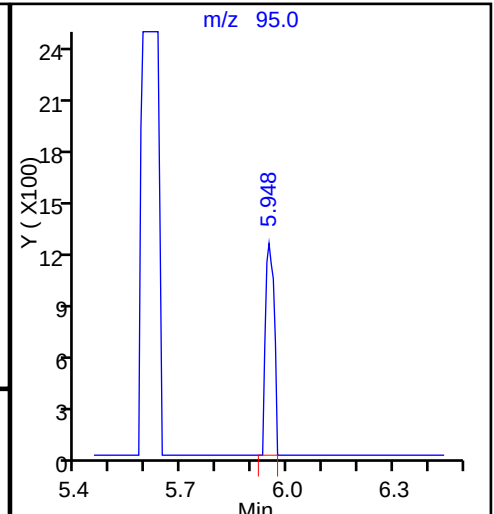
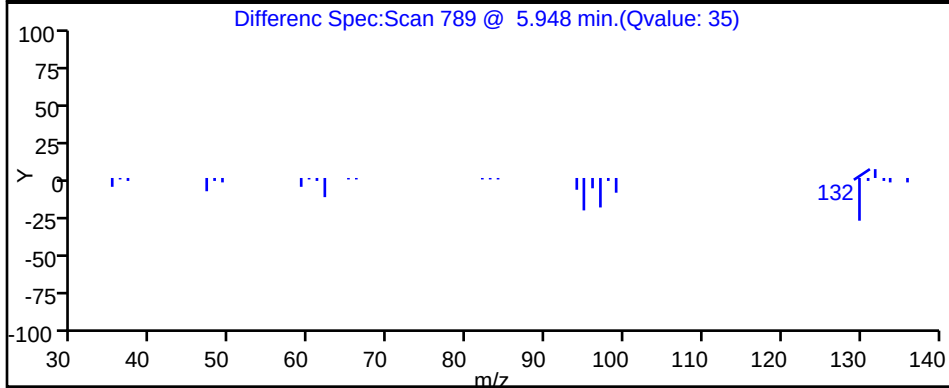
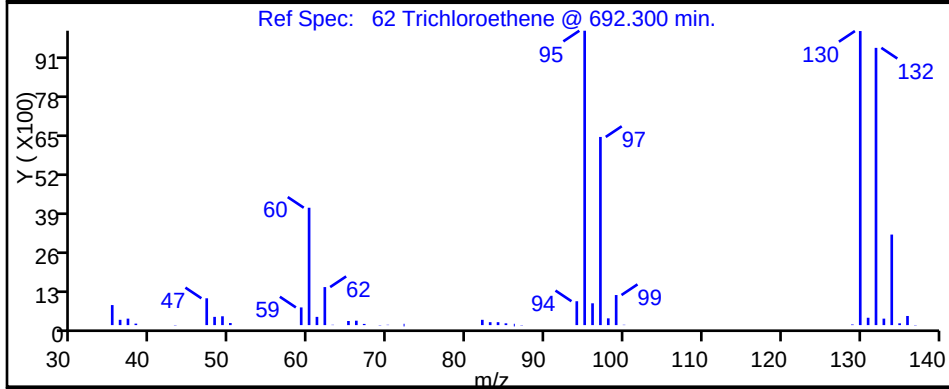
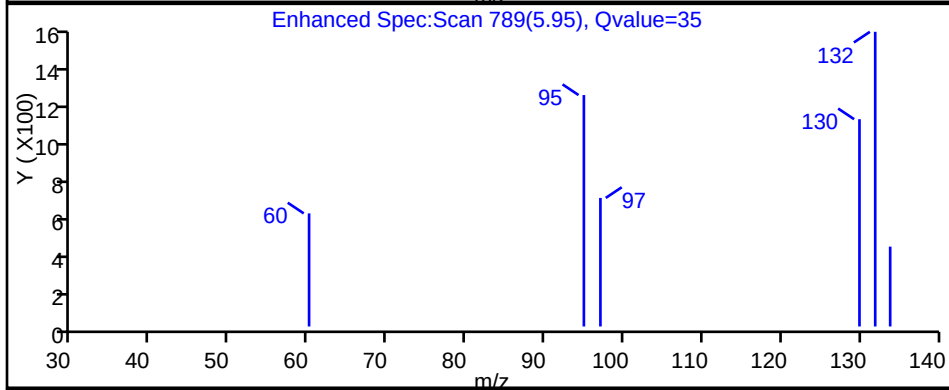
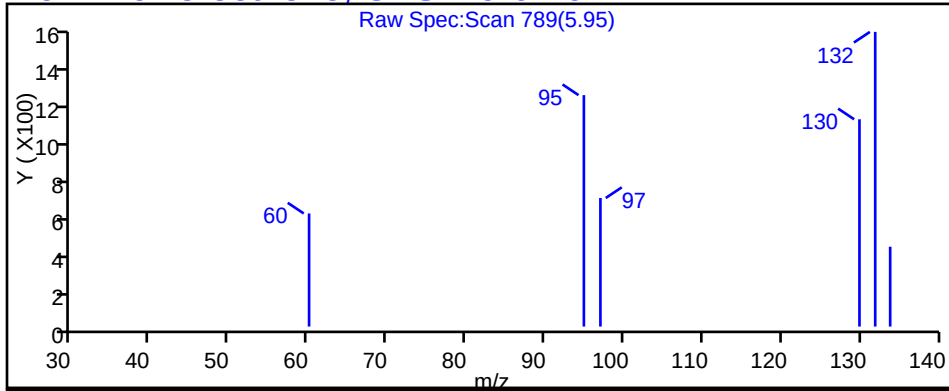
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0262.D

Injection Date: 02-Dec-2016 15:04:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-5

Lab Sample ID: 480-110191-5

Client ID: 4009-12

Operator ID: NEA

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

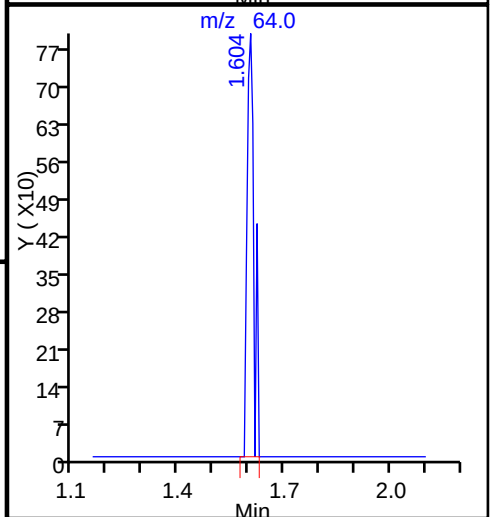
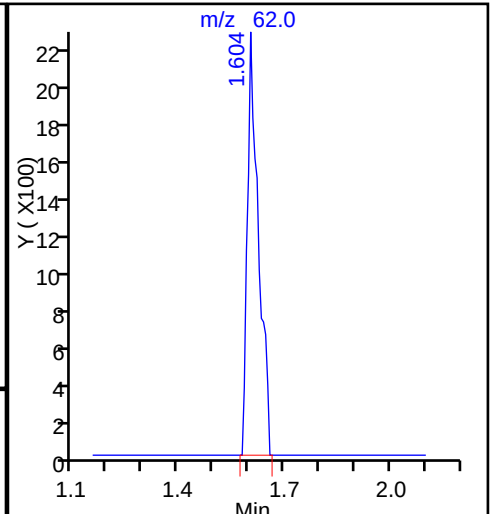
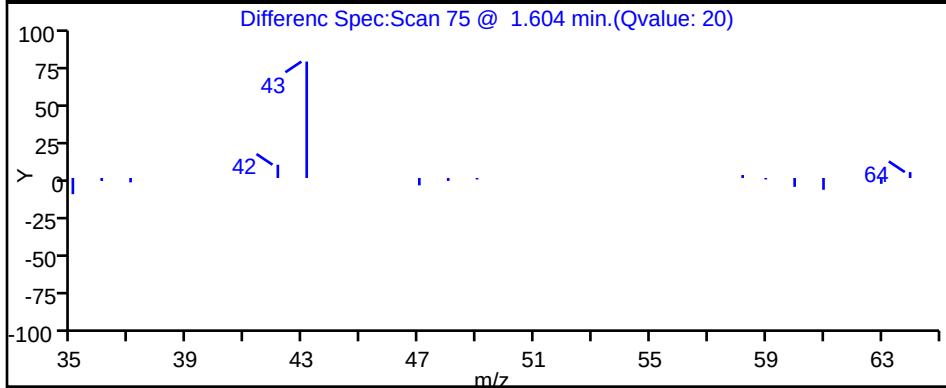
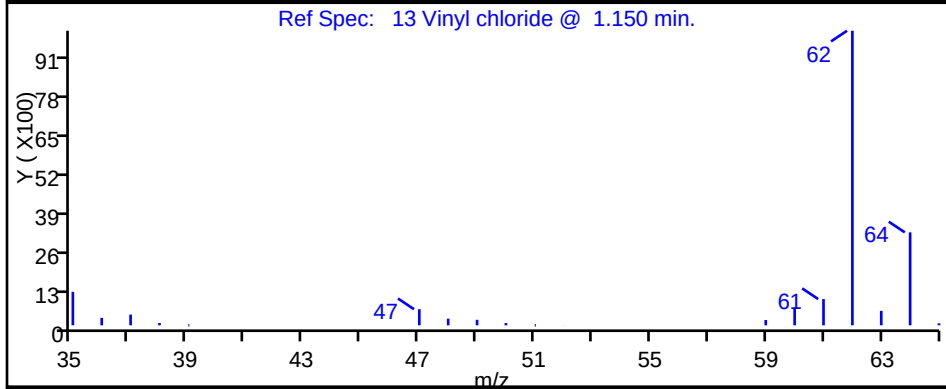
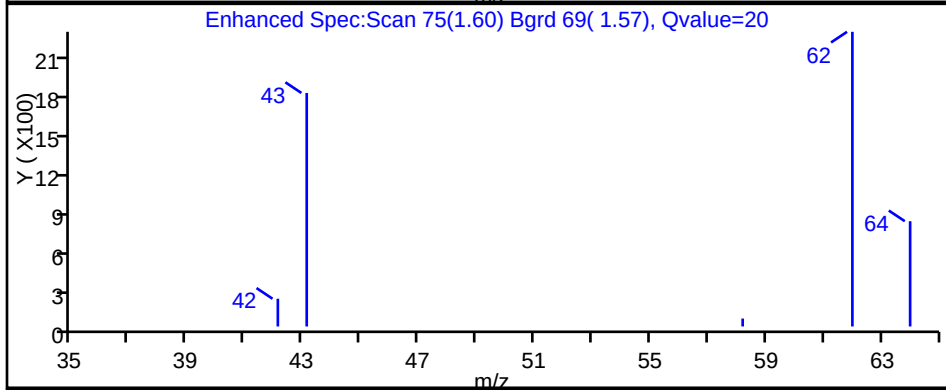
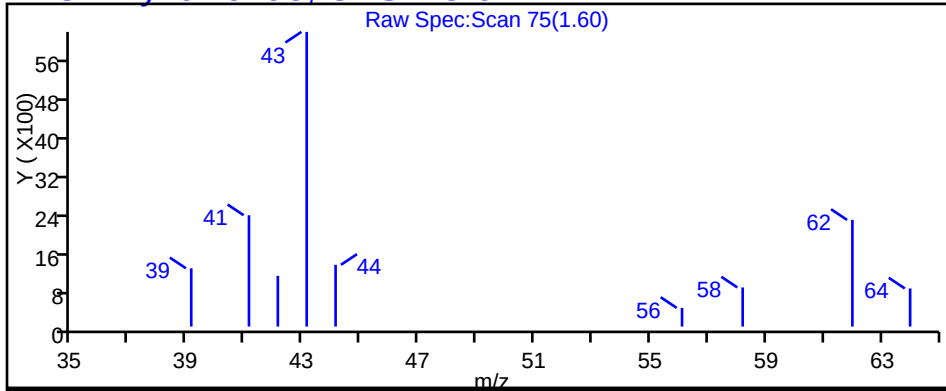
Dil. Factor: 1.0000

Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-13</u>	Lab Sample ID: <u>480-110191-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0263.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 15:27</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.9		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-13</u>	Lab Sample ID: <u>480-110191-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0263.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 15:27</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0263.D
 Lims ID: 480-110191-A-6
 Client ID: 4009-13
 Sample Type: Client
 Inject. Date: 02-Dec-2016 15:27:30 ALS Bottle#: 18 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-6
 Misc. Info.: 480-0058820-018
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:30:58 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:39:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77191	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	160252	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	156368	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	92739	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60394	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	394034	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	88	123115	23.2	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	54	26354	1.93	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0263.D

Injection Date: 02-Dec-2016 15:27:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-6

Lab Sample ID: 480-110191-6

Worklist Smp#: 18

Client ID: 4009-13

Purge Vol: 5.000 mL

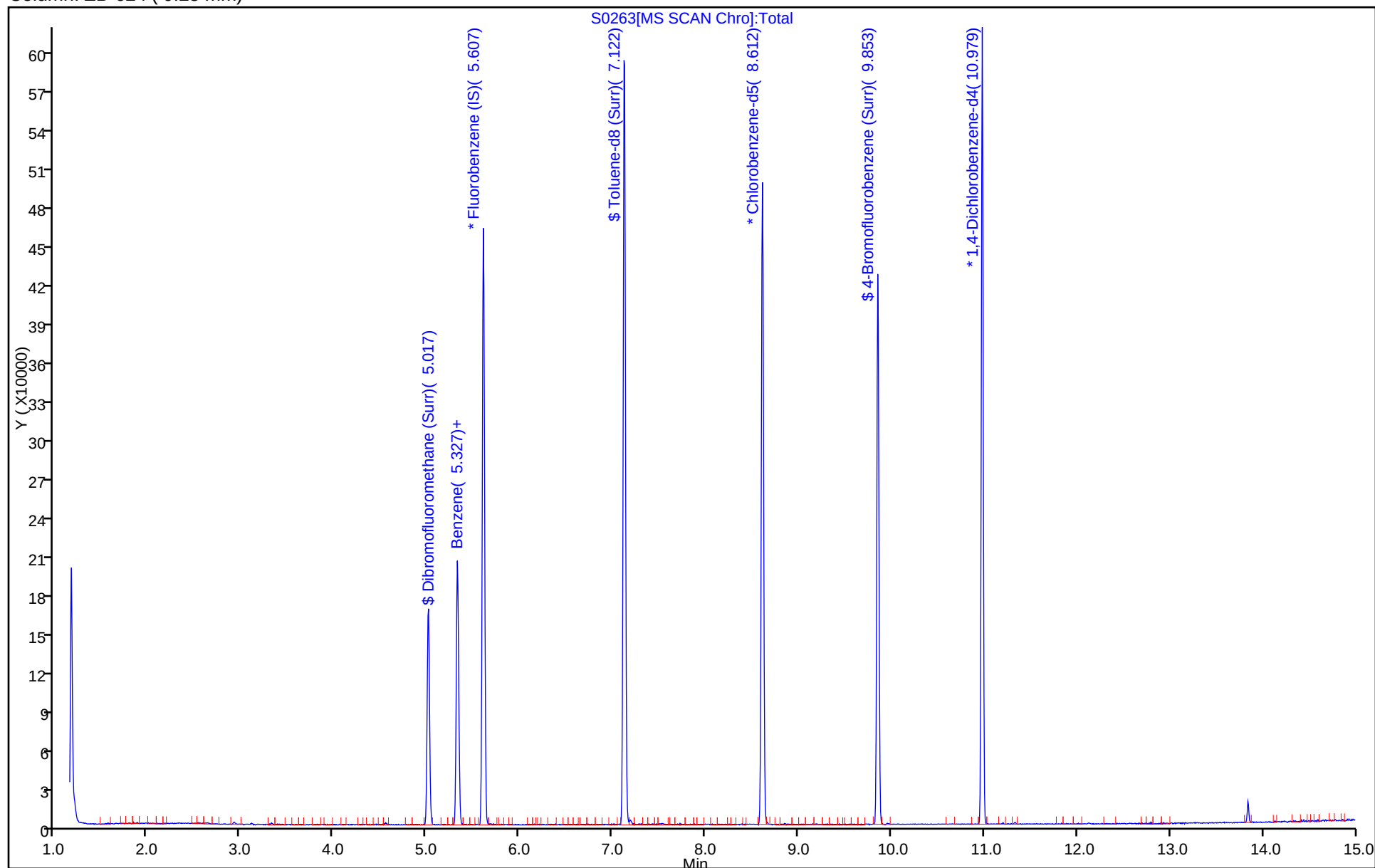
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0263.D

Injection Date: 02-Dec-2016 15:27:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-6

Lab Sample ID: 480-110191-6

Client ID: 4009-13

Operator ID: NEA

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

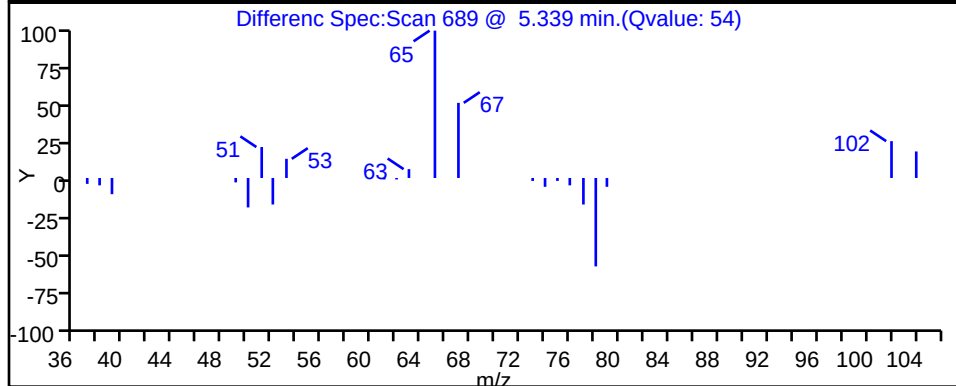
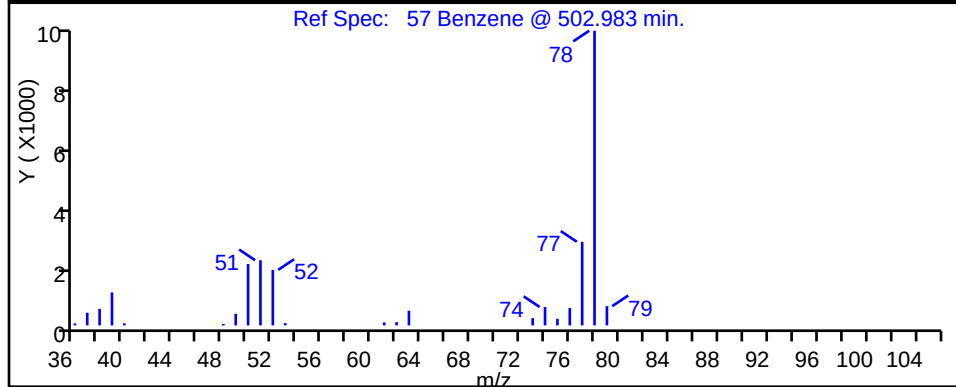
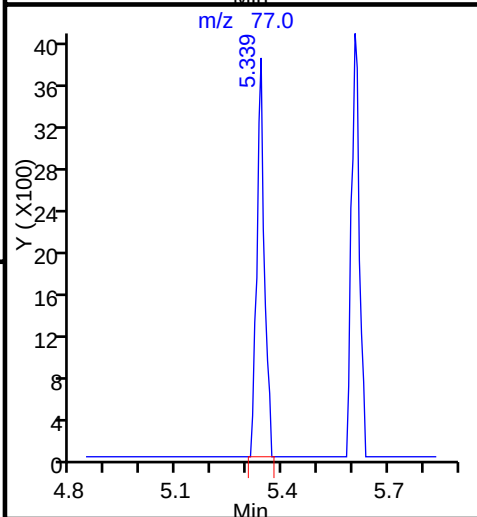
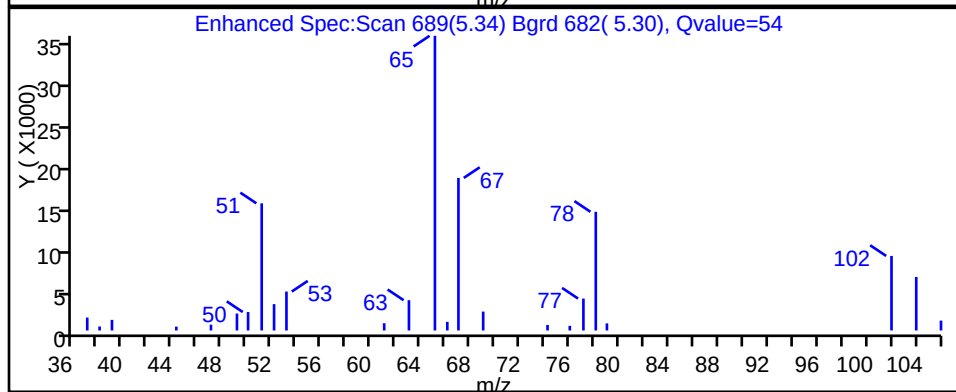
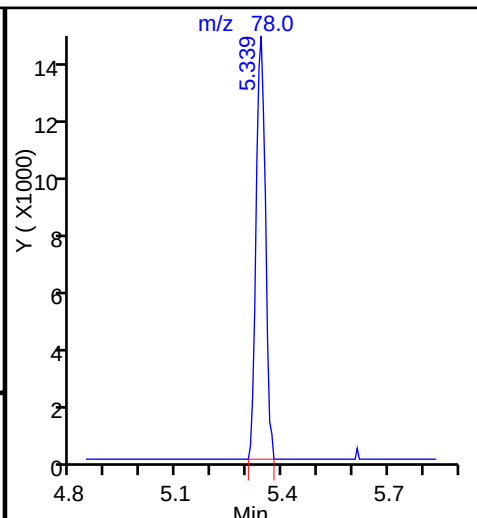
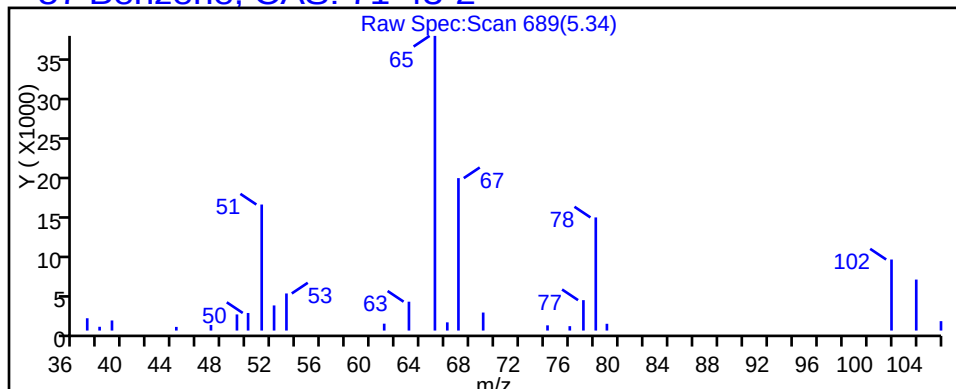
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-13A</u>	Lab Sample ID: <u>480-110191-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0264.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 15:50</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-13A Lab Sample ID: 480-110191-7
 Matrix: Water Lab File ID: S0264.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:20
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 15:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0264.D
 Lims ID: 480-110191-A-7
 Client ID: 4009-13A
 Sample Type: Client
 Inject. Date: 02-Dec-2016 15:50:30 ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-7
 Misc. Info.: 480-0058820-019
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:30:58 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:40:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	79117	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	157599	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	155452	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	95089	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59715	24.7	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	394745	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.859	0.001	93	125567	24.1	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0264.D

Injection Date: 02-Dec-2016 15:50:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-7

Lab Sample ID: 480-110191-7

Worklist Smp#: 19

Client ID: 4009-13A

Purge Vol: 5.000 mL

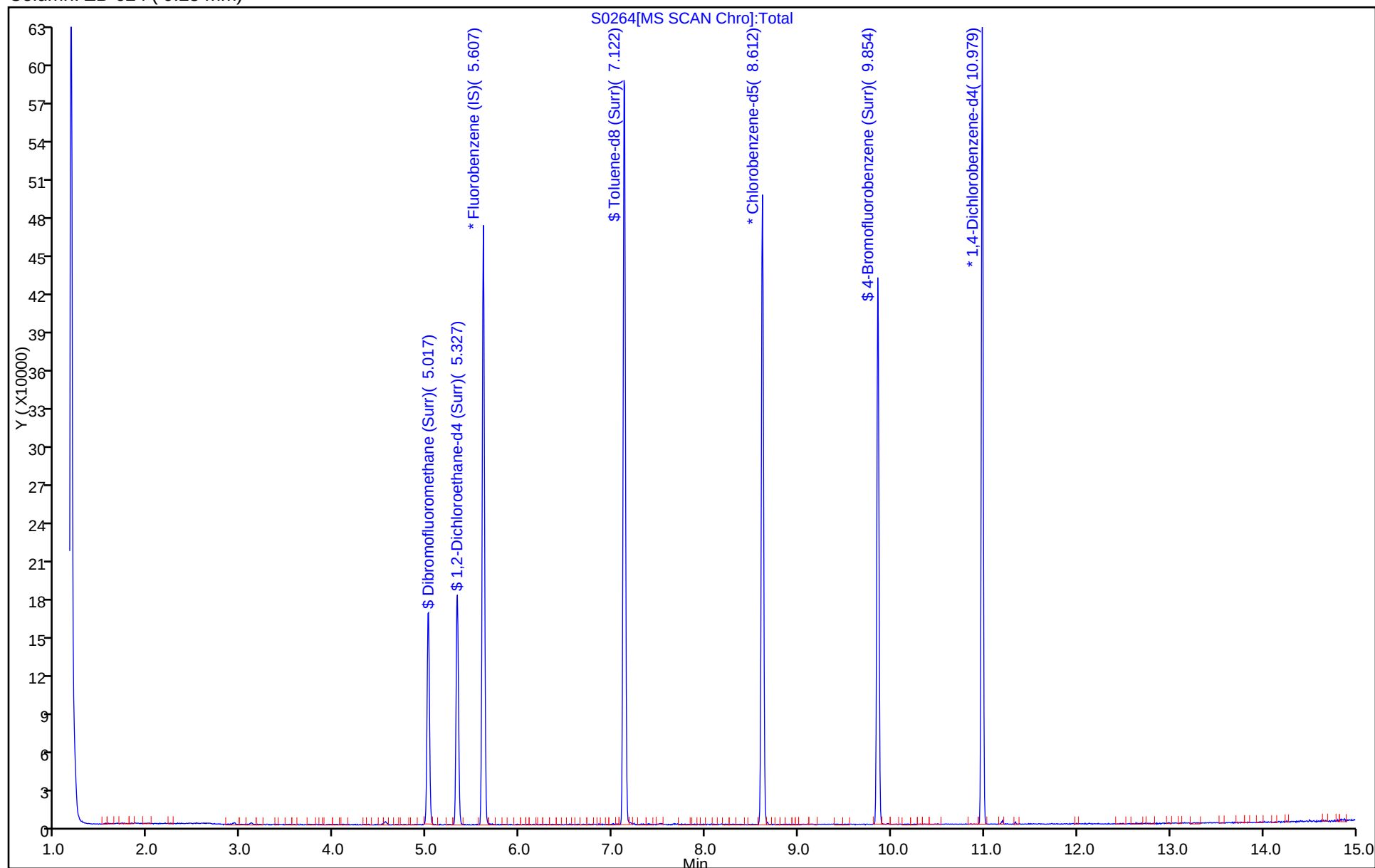
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14</u>	Lab Sample ID: <u>480-110191-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0265.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 16:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	17		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-14 Lab Sample ID: 480-110191-8
 Matrix: Water Lab File ID: S0265.D
 Analysis Method: 8260C Date Collected: 11/28/2016 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 16:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0265.D
 Lims ID: 480-110191-A-8
 Client ID: 4009-14
 Sample Type: Client
 Inject. Date: 02-Dec-2016 16:13:30 ALS Bottle#: 20 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-8
 Misc. Info.: 480-0058820-020
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:41:18 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 16:41:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76876	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	155816	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	153735	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	94602	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60250	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	387136	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	88	123190	23.9	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	96	229261	16.8	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0265.D

Injection Date: 02-Dec-2016 16:13:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-8

Lab Sample ID: 480-110191-8

Worklist Smp#: 20

Client ID: 4009-14

Purge Vol: 5.000 mL

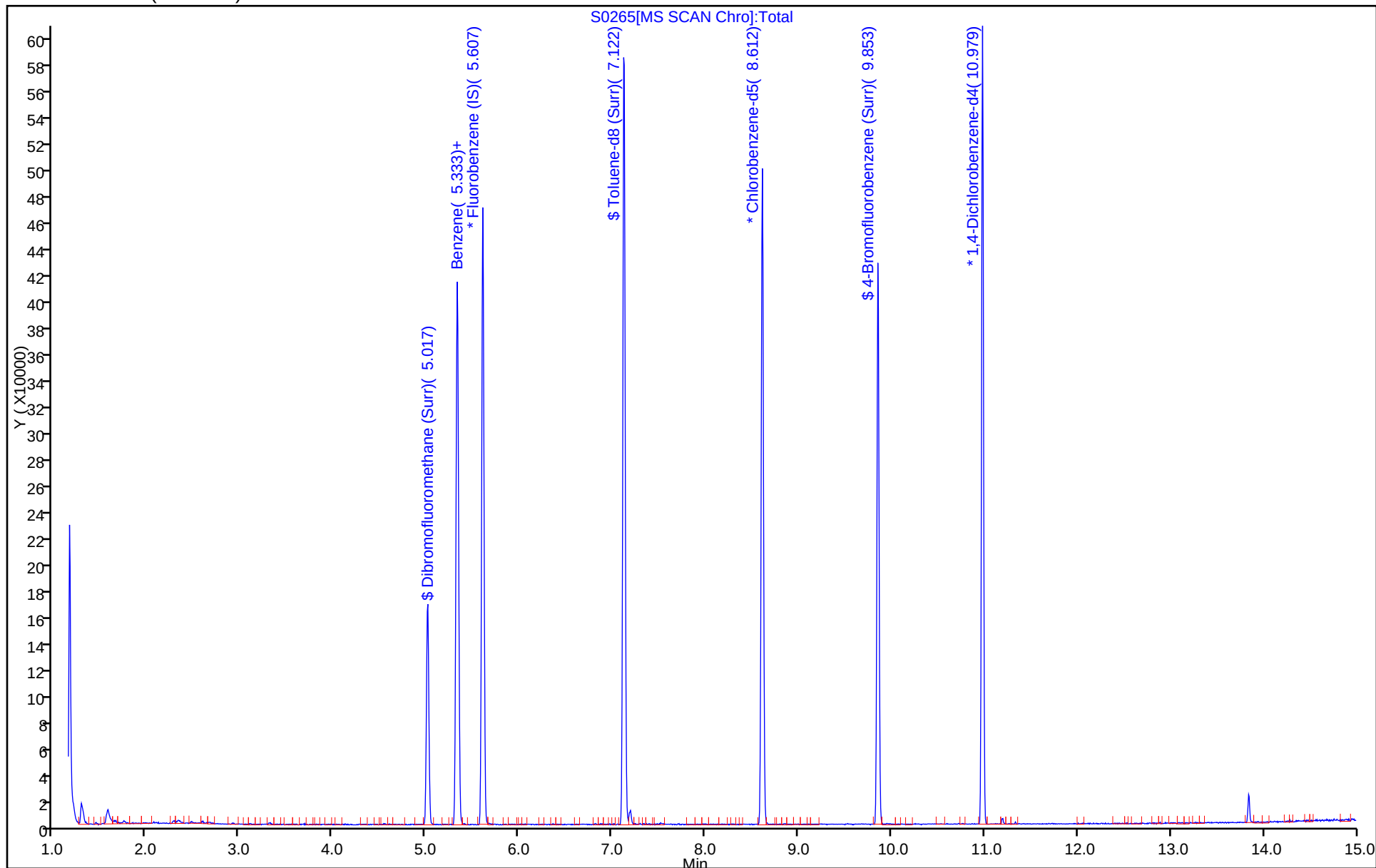
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0265.D

Injection Date: 02-Dec-2016 16:13:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-8

Lab Sample ID: 480-110191-8

Client ID: 4009-14

Operator ID: NEA

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 5.000 mL

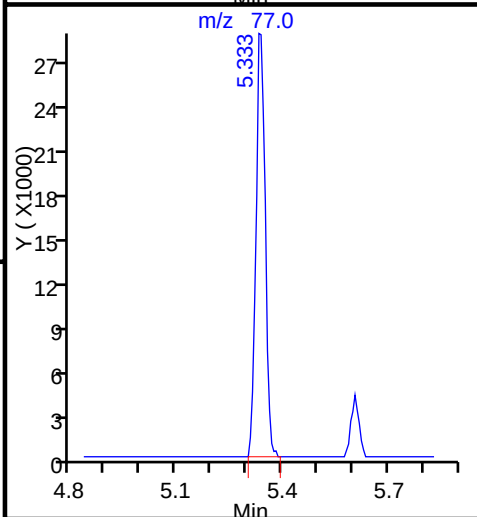
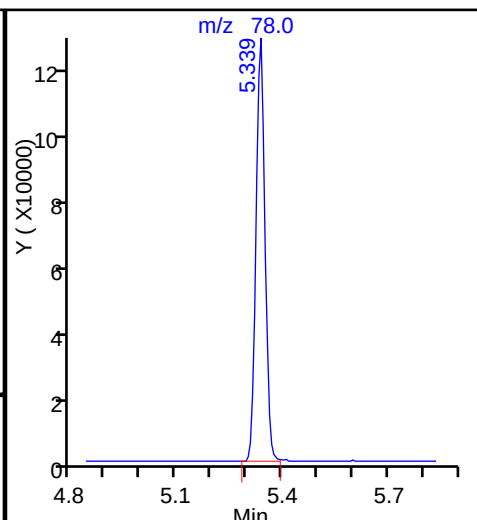
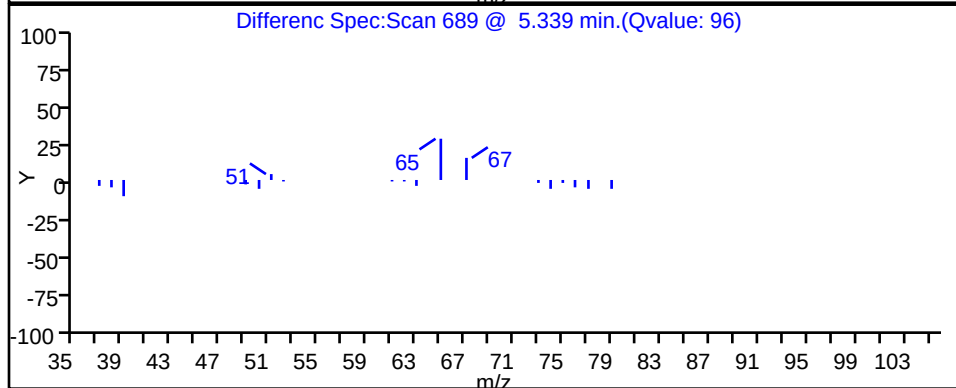
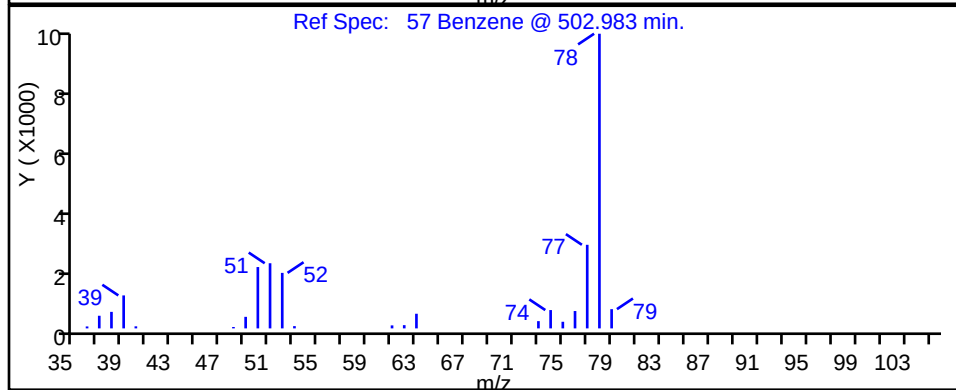
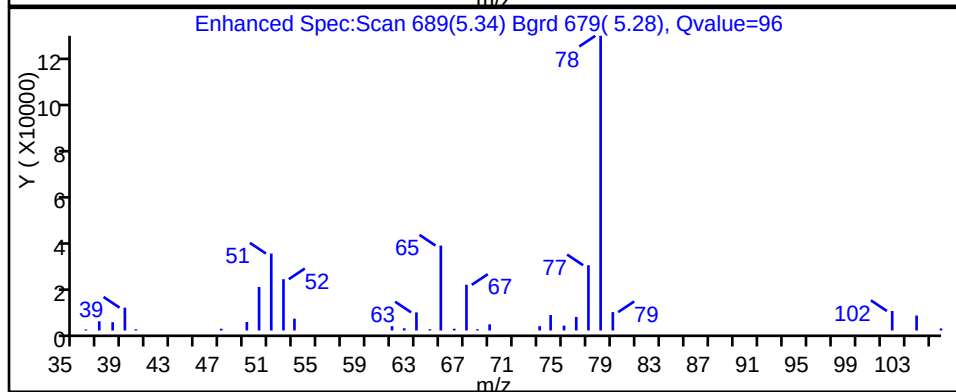
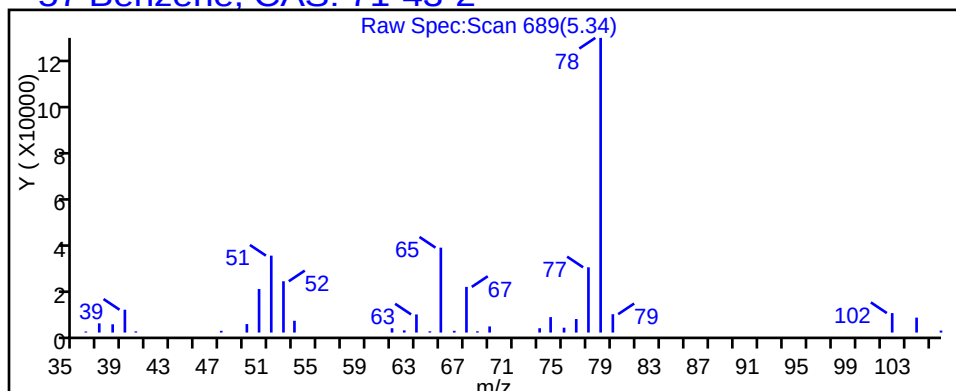
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-15</u>	Lab Sample ID: <u>480-110191-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0266.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 12:20</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>12/02/2016 16:36</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	8.4	J	10	3.0
71-43-2	Benzene	9.0		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-15 Lab Sample ID: 480-110191-9
 Matrix: Water Lab File ID: S0266.D
 Analysis Method: 8260C Date Collected: 11/28/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 16:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0266.D
 Lims ID: 480-110191-A-9
 Client ID: 4009-15
 Sample Type: Client
 Inject. Date: 02-Dec-2016 16:36:30 ALS Bottle#: 21 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-9
 Misc. Info.: 480-0058820-021
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 15:15:38 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 17:24:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76568	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	157894	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	153479	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	93685	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59646	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	392826	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	89	122812	23.5	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43	2.924	2.912	0.012	83	10834	8.43	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	93	121617	8.96	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0266.D

Injection Date: 02-Dec-2016 16:36:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-9

Lab Sample ID: 480-110191-9

Worklist Smp#: 21

Client ID: 4009-15

Purge Vol: 5.000 mL

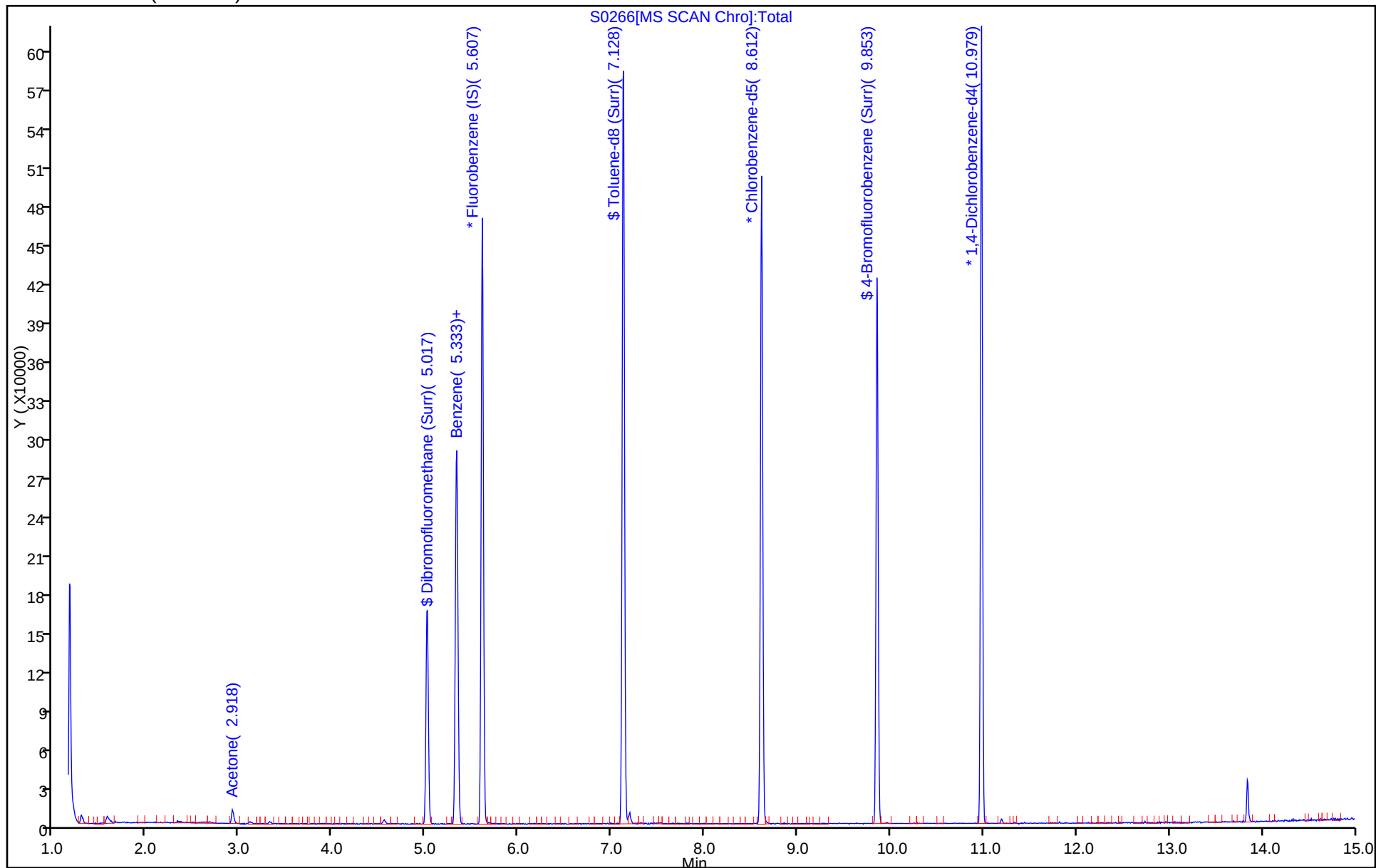
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0266.D

Injection Date: 02-Dec-2016 16:36:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-9

Lab Sample ID: 480-110191-9

Client ID: 4009-15

Operator ID: NEA

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

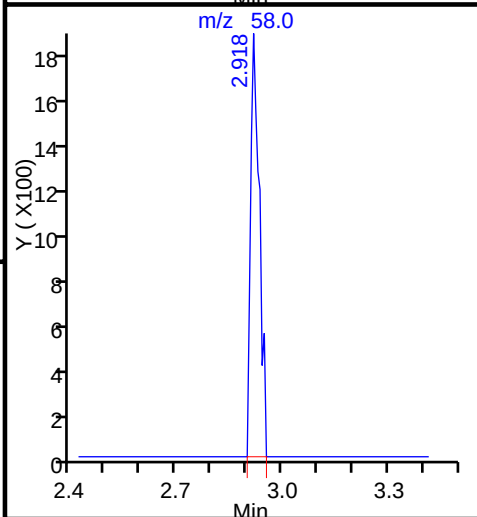
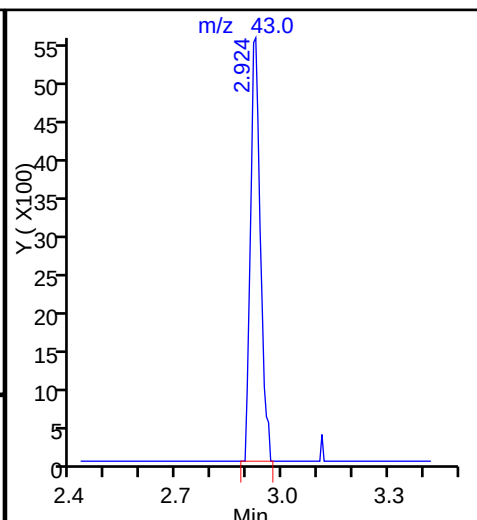
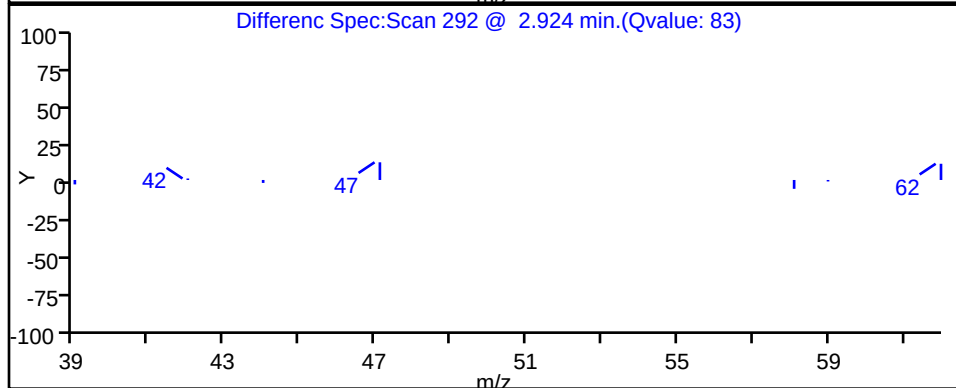
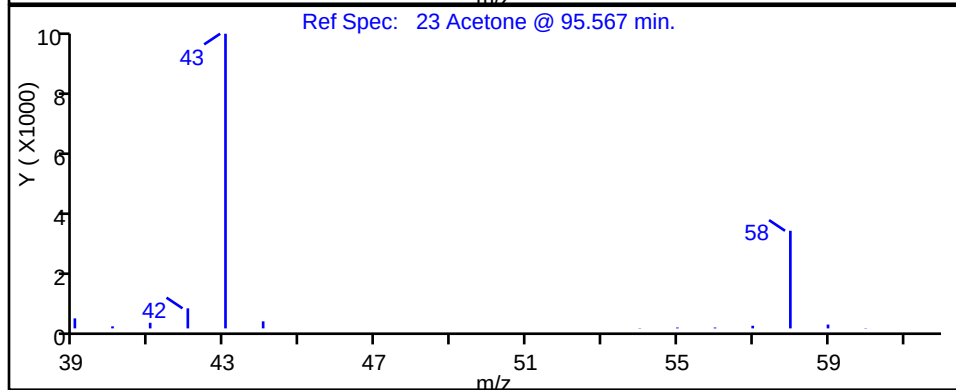
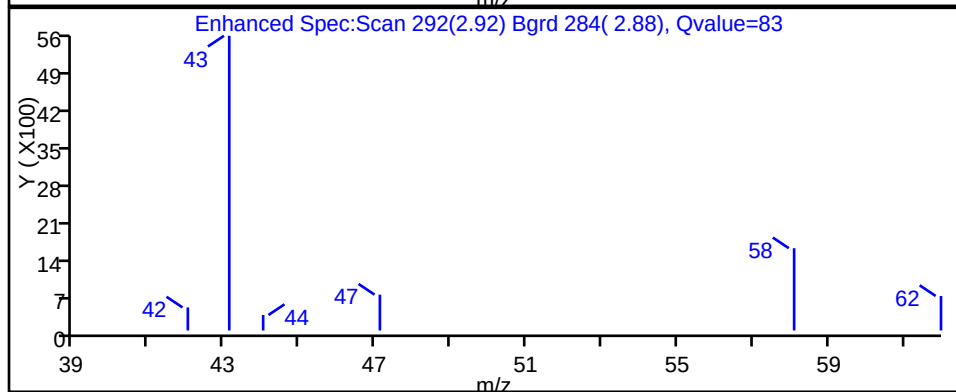
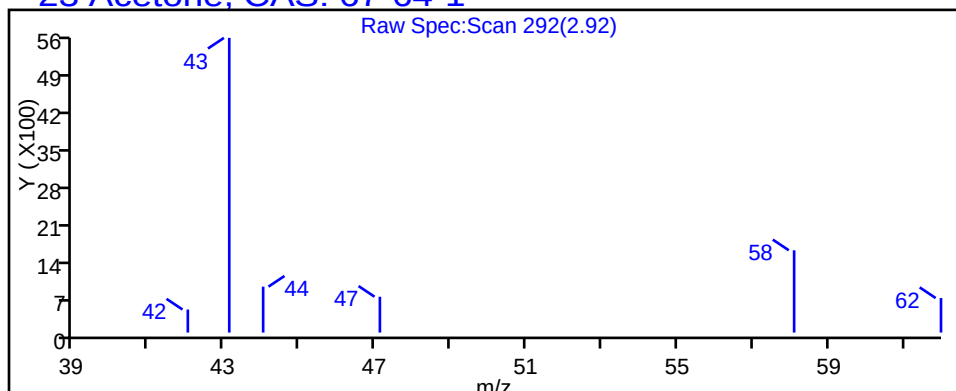
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0266.D

Injection Date: 02-Dec-2016 16:36:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-9

Lab Sample ID: 480-110191-9

Client ID: 4009-15

Operator ID: NEA

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

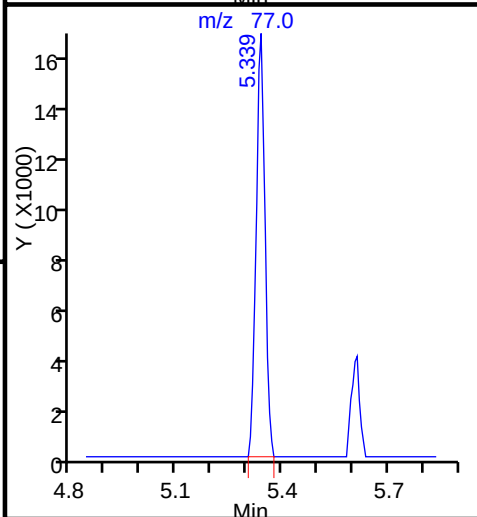
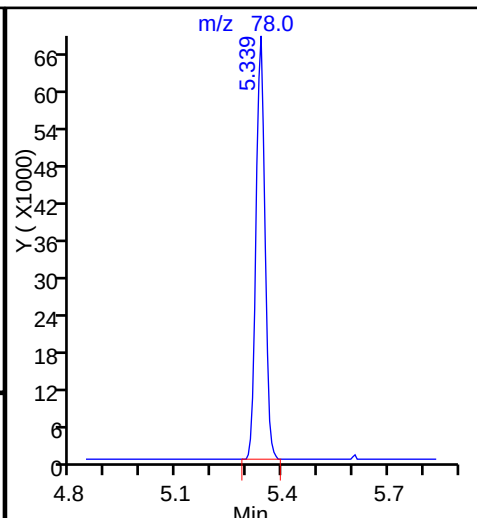
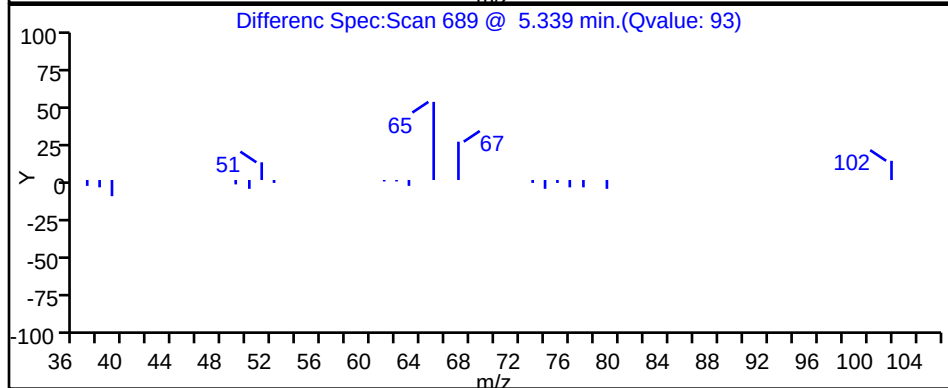
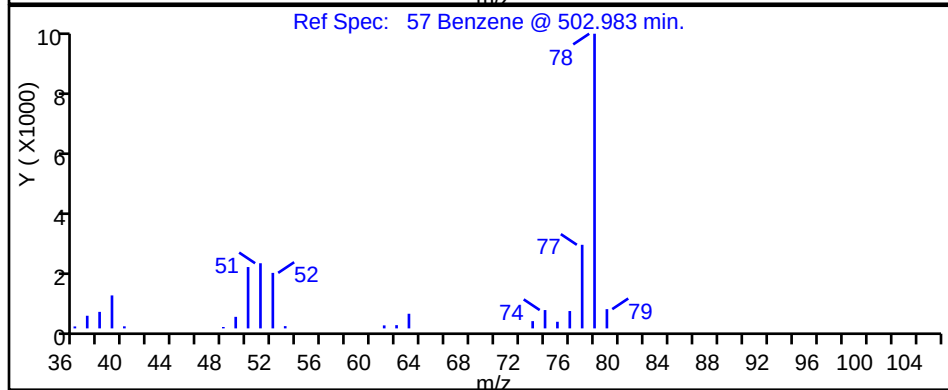
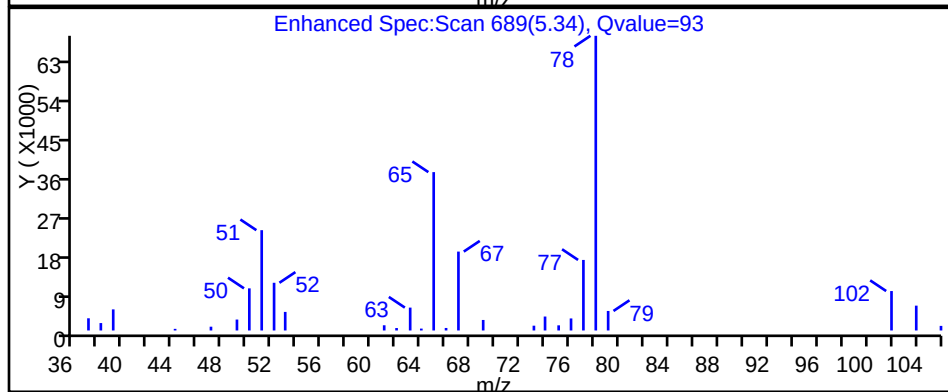
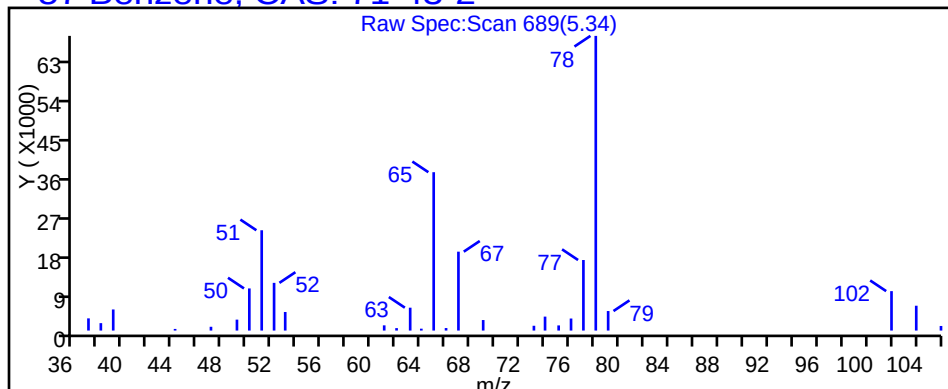
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-16</u>	Lab Sample ID: <u>480-110191-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0267.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 12:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 16:59</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.8		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-16 Lab Sample ID: 480-110191-10
 Matrix: Water Lab File ID: S0267.D
 Analysis Method: 8260C Date Collected: 11/28/2016 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 16:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0267.D
 Lims ID: 480-110191-A-10
 Client ID: 4009-16
 Sample Type: Client
 Inject. Date: 02-Dec-2016 16:59:30 ALS Bottle#: 22 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-10
 Misc. Info.: 480-0058820-022
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 15:15:38 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 17:29:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	75465	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	81	155704	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	151401	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	92381	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60137	26.1	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	392102	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	91	122779	23.8	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	56	23691	1.77	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0267.D

Injection Date: 02-Dec-2016 16:59:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-10

Lab Sample ID: 480-110191-10

Worklist Smp#: 22

Client ID: 4009-16

Purge Vol: 5.000 mL

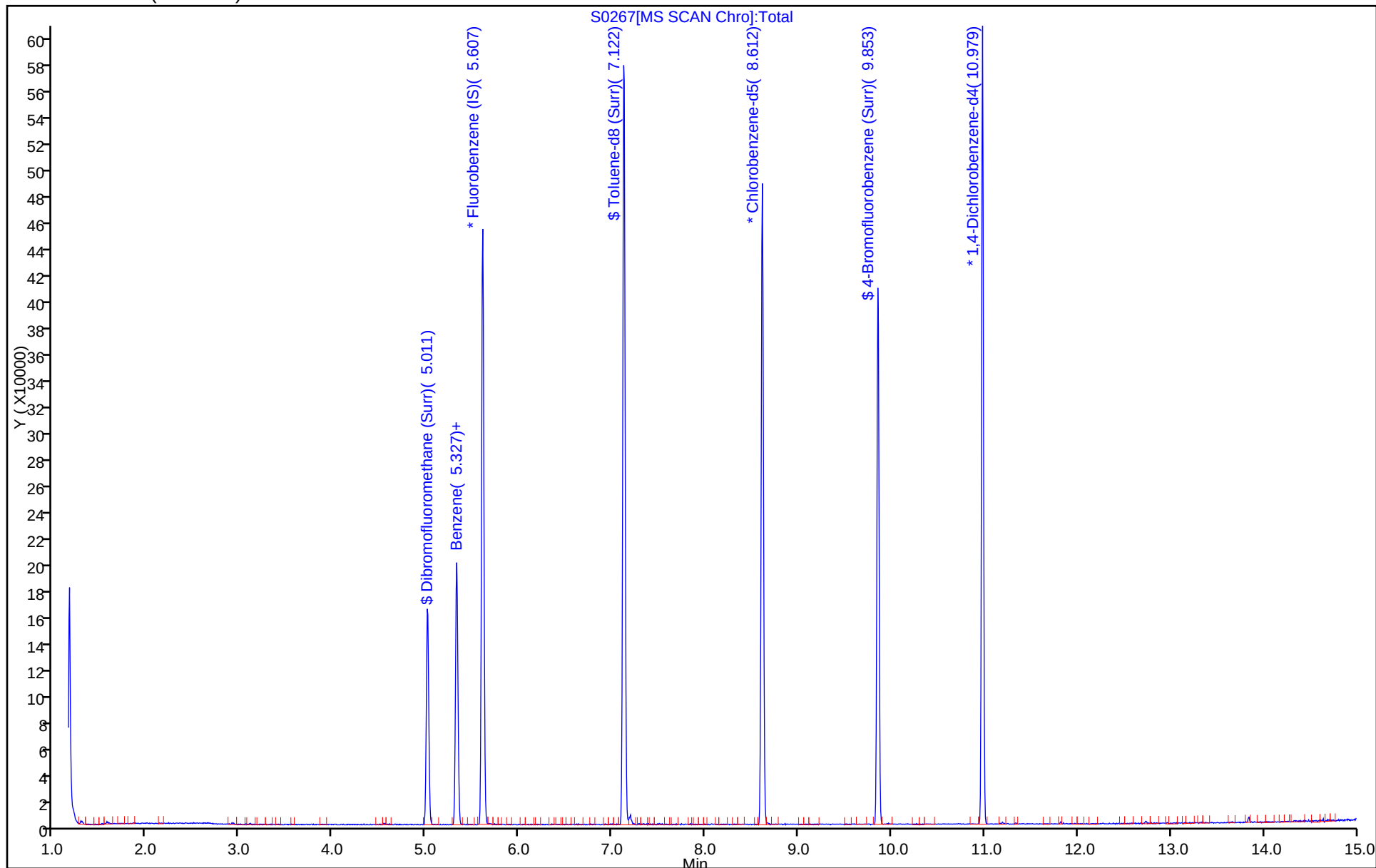
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0267.D

Injection Date: 02-Dec-2016 16:59:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-10

Lab Sample ID: 480-110191-10

Client ID: 4009-16

Operator ID: NEA

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 5.000 mL

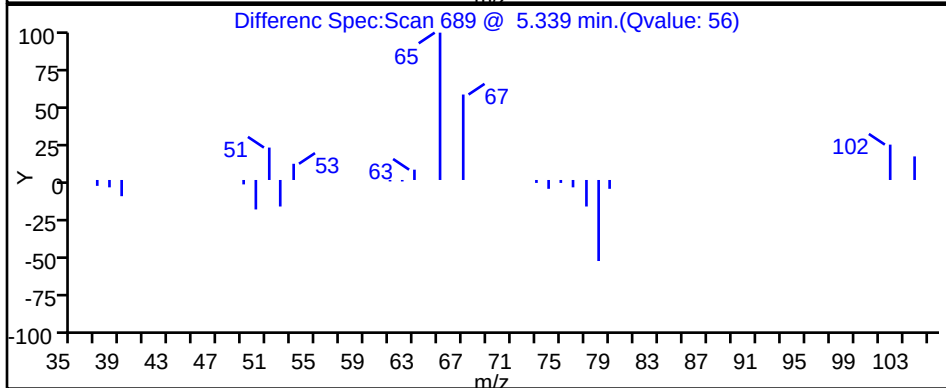
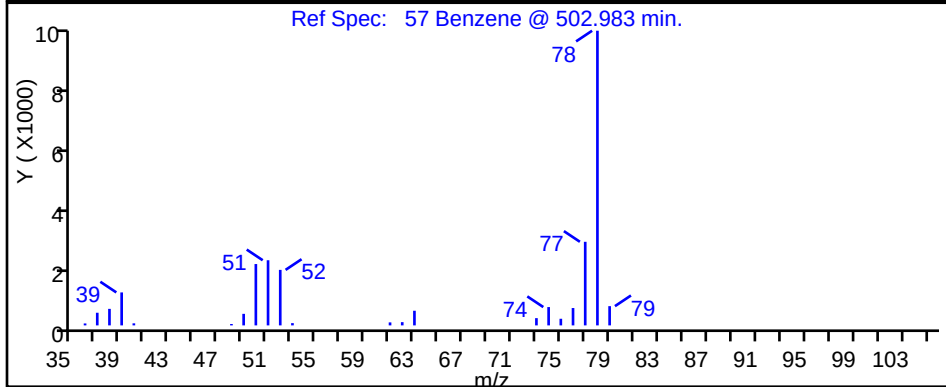
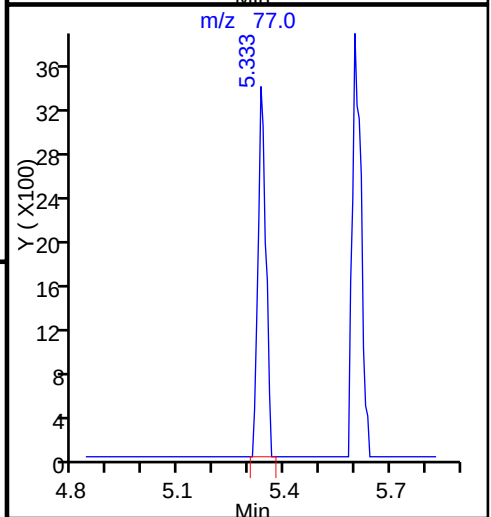
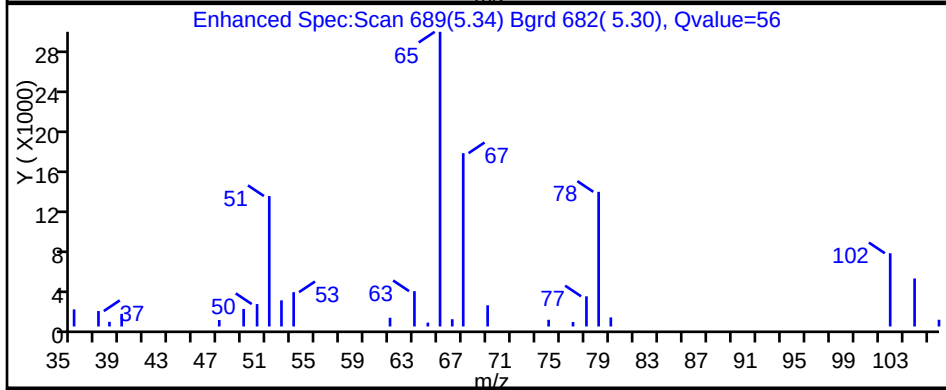
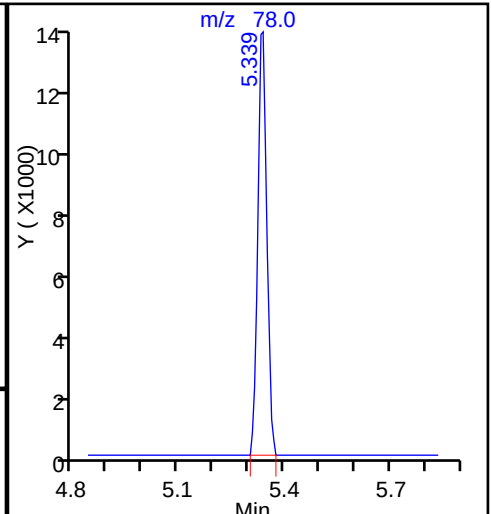
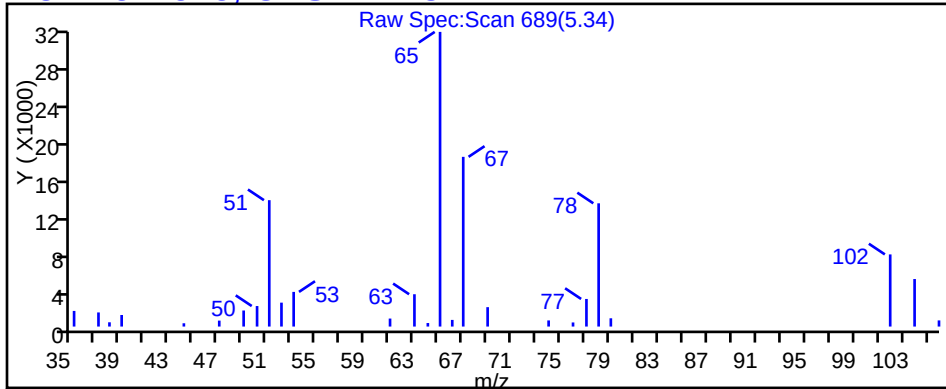
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-16A</u>	Lab Sample ID: <u>480-110191-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0268.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 11:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 17:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	36		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-16A Lab Sample ID: 480-110191-11
 Matrix: Water Lab File ID: S0268.D
 Analysis Method: 8260C Date Collected: 11/28/2016 11:55
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 17:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0268.D
 Lims ID: 480-110191-A-11
 Client ID: 4009-16A
 Sample Type: Client
 Inject. Date: 02-Dec-2016 17:22:30 ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-11
 Misc. Info.: 480-0058820-023
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 18:14:12 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 18:14:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	77906	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	157179	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	152376	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	56	93751	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59449	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	394382	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	92	123967	23.8	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	97	502075	36.4	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0268.D

Injection Date: 02-Dec-2016 17:22:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-11

Lab Sample ID: 480-110191-11

Worklist Smp#: 23

Client ID: 4009-16A

Purge Vol: 5.000 mL

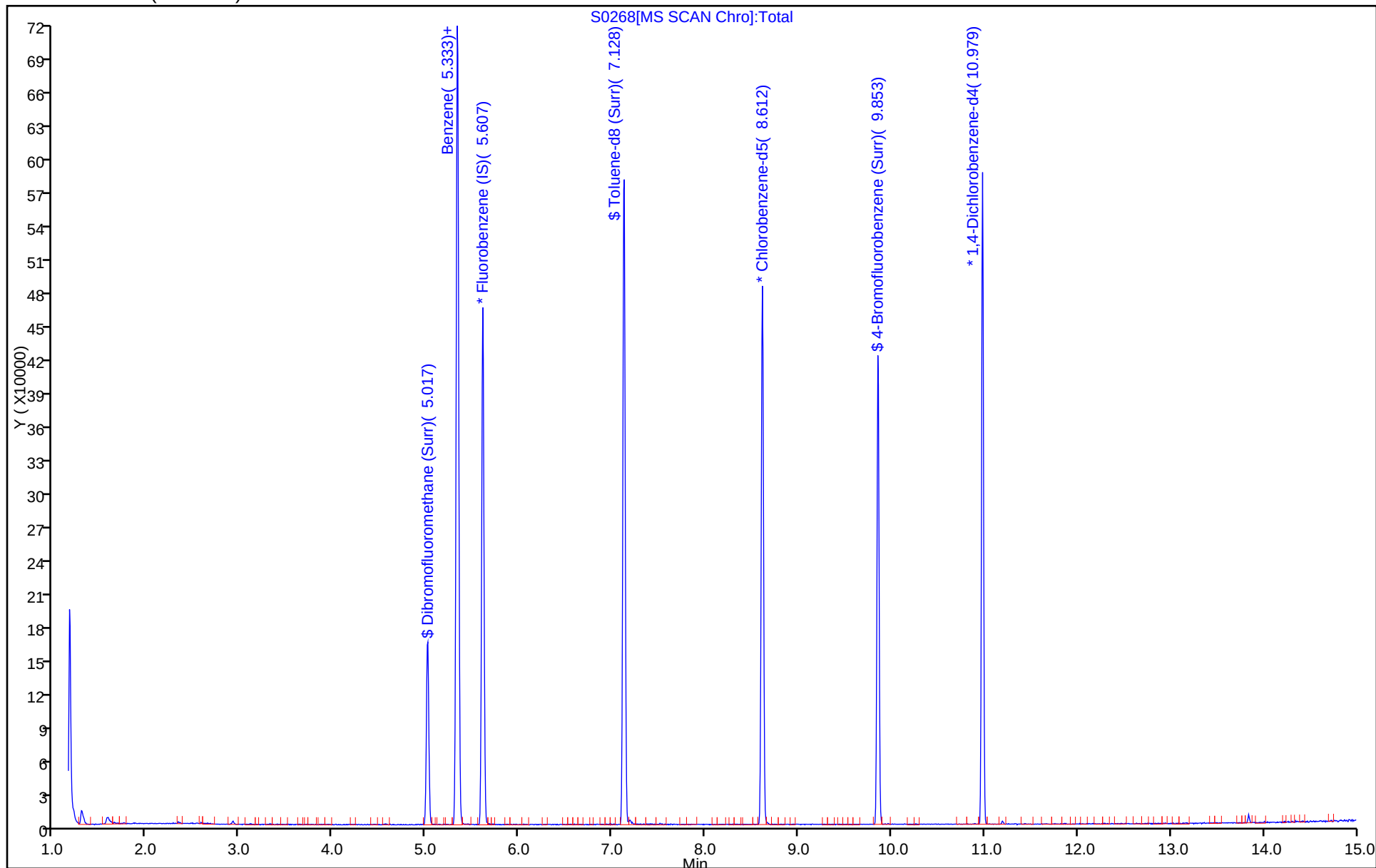
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0268.D

Injection Date: 02-Dec-2016 17:22:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-11

Lab Sample ID: 480-110191-11

Client ID: 4009-16A

Operator ID: NEA

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

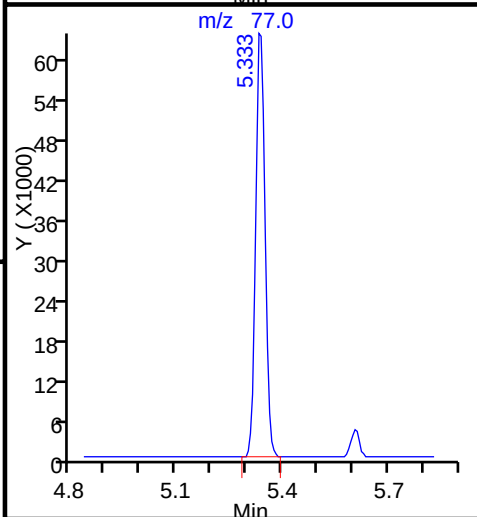
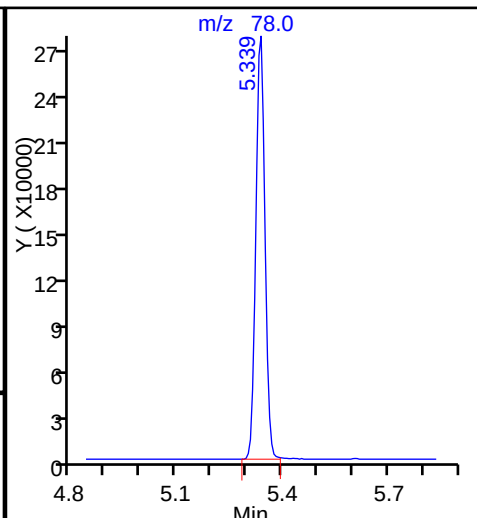
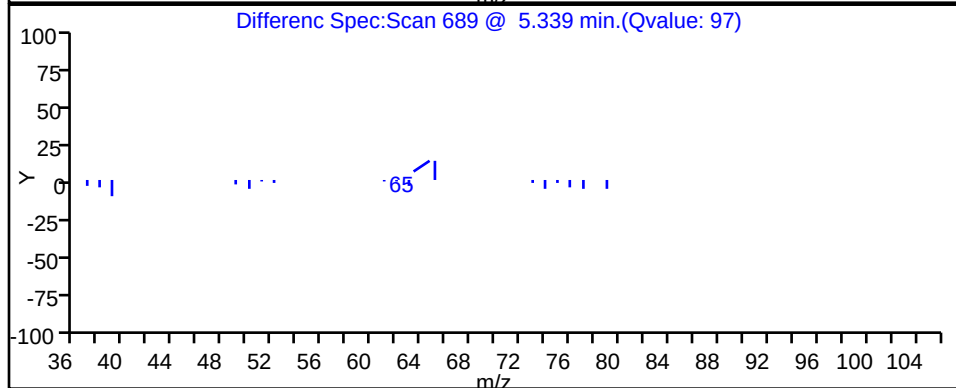
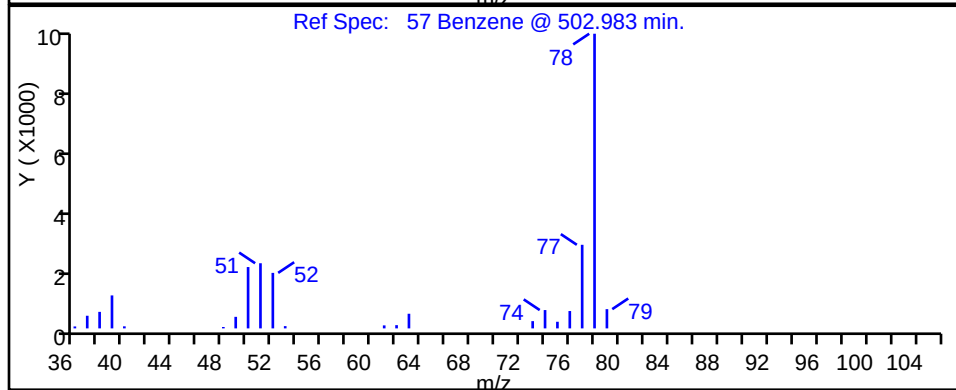
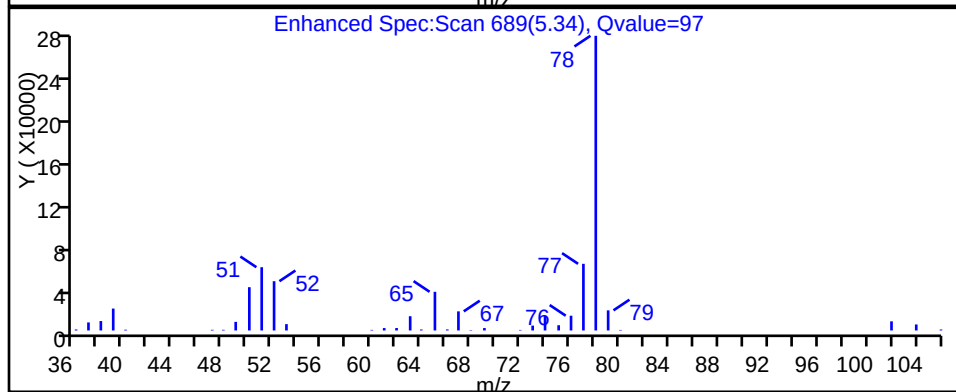
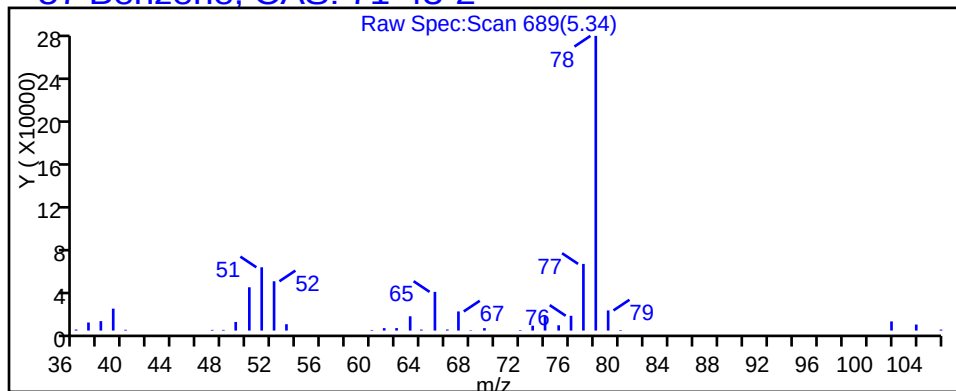
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-18</u>	Lab Sample ID: <u>480-110191-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0269.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 11:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 17:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.7		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-18</u>	Lab Sample ID: <u>480-110191-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0269.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 11:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 17:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0269.D
 Lims ID: 480-110191-A-12
 Client ID: 4009-18
 Sample Type: Client
 Inject. Date: 02-Dec-2016 17:45:30 ALS Bottle#: 24 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-12
 Misc. Info.: 480-0058820-024
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 18:14:12 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 18:14:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	75129	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	152061	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	151270	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	90957	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59381	25.9	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	383386	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.859	-0.005	89	119525	23.8	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.340	5.333	0.007	47	22004	1.65	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0269.D

Injection Date: 02-Dec-2016 17:45:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-12

Lab Sample ID: 480-110191-12

Worklist Smp#: 24

Client ID: 4009-18

Purge Vol: 5.000 mL

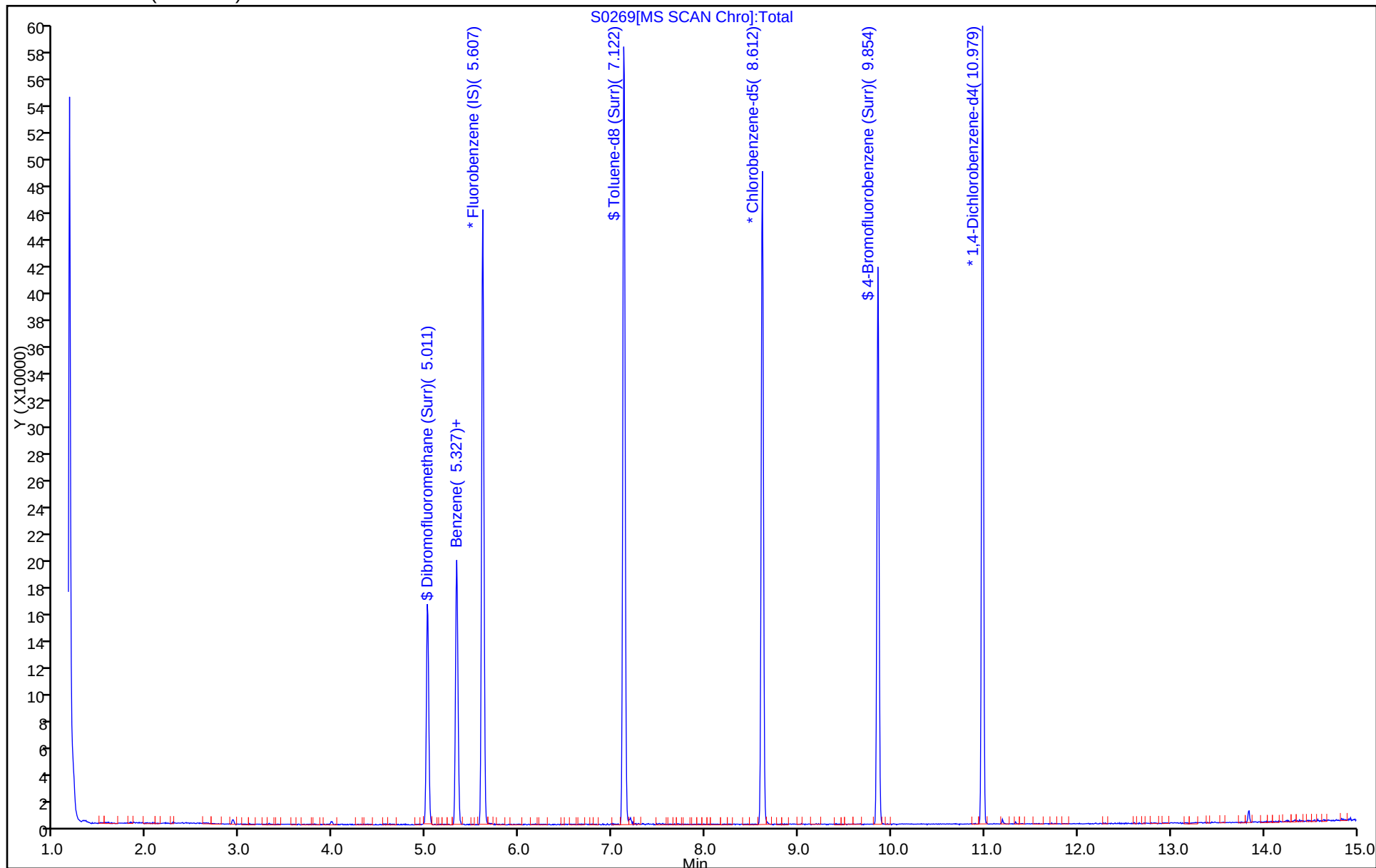
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0269.D

Injection Date: 02-Dec-2016 17:45:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-12

Lab Sample ID: 480-110191-12

Client ID: 4009-18

Operator ID: NEA

ALS Bottle#: 24

Worklist Smp#: 24

Purge Vol: 5.000 mL

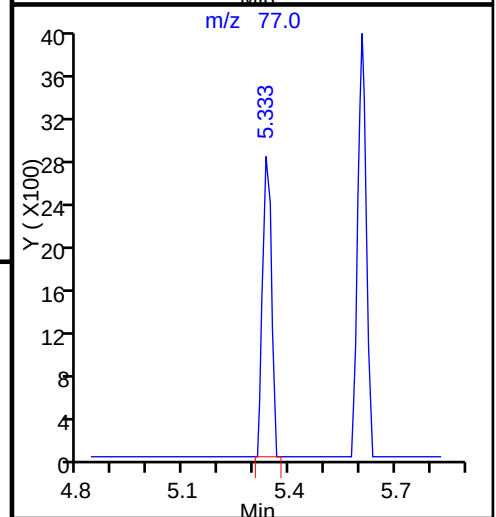
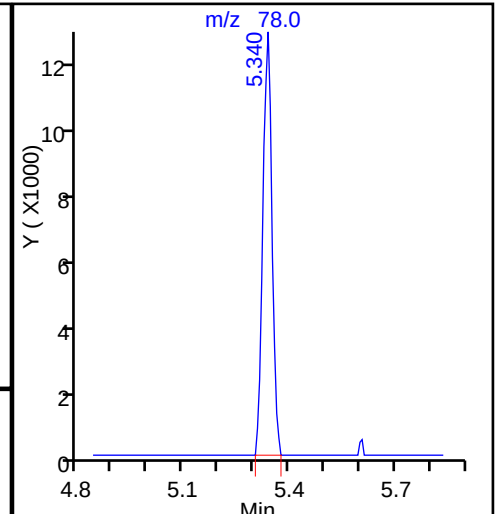
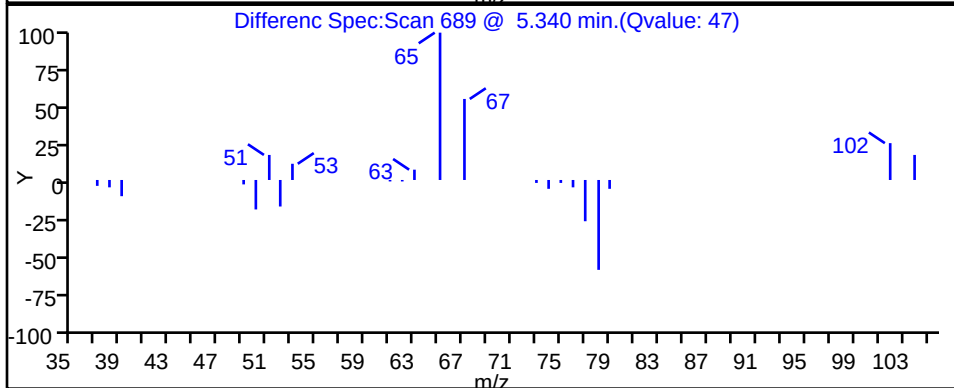
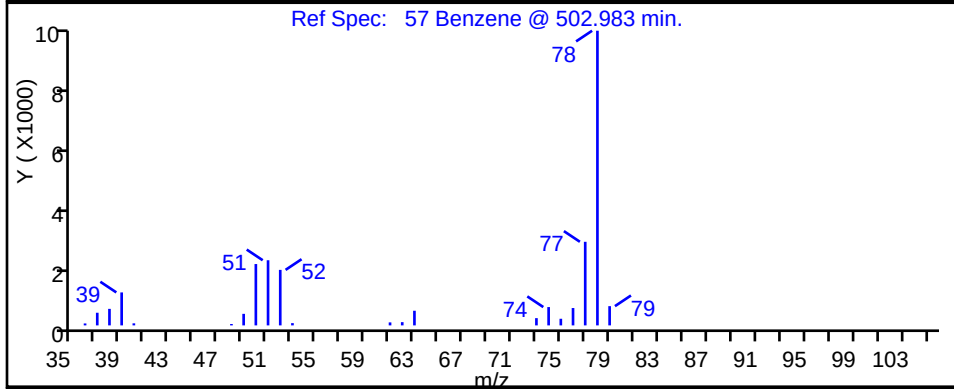
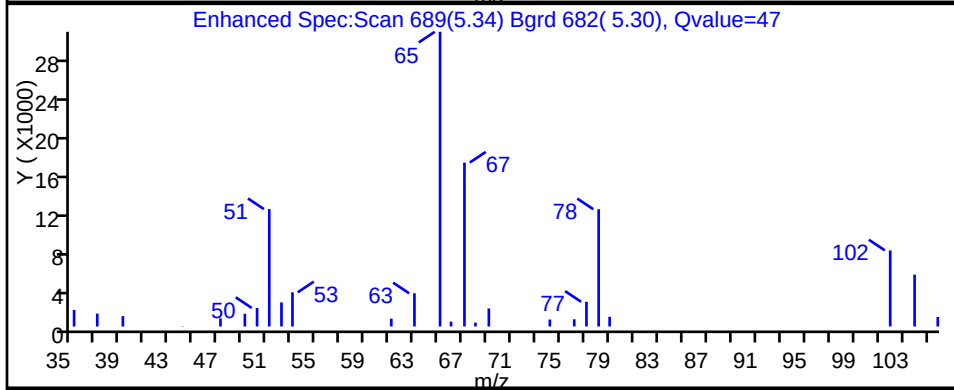
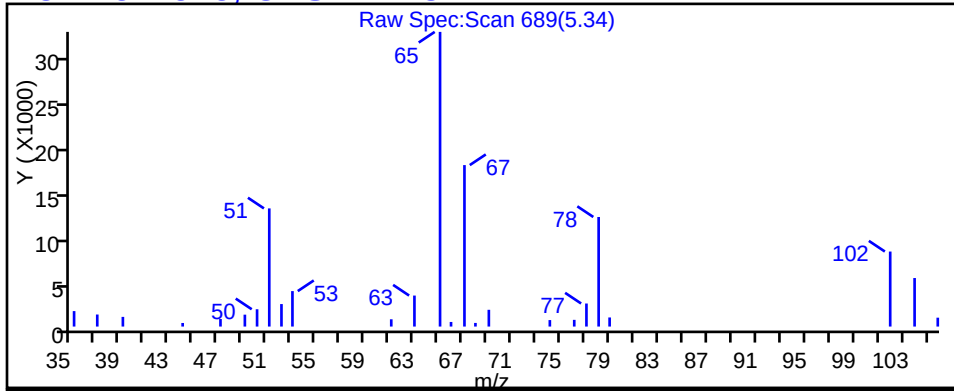
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-19</u>	Lab Sample ID: <u>480-110191-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0270.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 11:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 18:08</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334403</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-19 Lab Sample ID: 480-110191-13
 Matrix: Water Lab File ID: S0270.D
 Analysis Method: 8260C Date Collected: 11/28/2016 11:20
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 18:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0270.D
 Lims ID: 480-110191-A-13
 Client ID: 4009-19
 Sample Type: Client
 Inject. Date: 02-Dec-2016 18:08:30 ALS Bottle#: 25 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-13
 Misc. Info.: 480-0058820-025
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 16:25:11 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: o'briens

Date: 02-Dec-2016 18:27:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	75493	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	157529	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	152241	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	92641	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60875	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	392480	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	89	121982	23.4	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.939				ND	
15 Chloroethane	64		2.048				ND	
17 Trichlorofluoromethane	101		2.273				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43	2.930	2.912	0.018	71	3496	2.76	
26 Carbon disulfide	76		3.016				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.320				ND	
32 Methyl tert-butyl ether	73		3.545				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.983				ND	
45 cis-1,2-Dichloroethene	96		4.543				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.859				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.993				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.191				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0270.D

Injection Date: 02-Dec-2016 18:08:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: 480-110191-A-13

Lab Sample ID: 480-110191-13

Worklist Smp#: 25

Client ID: 4009-19

Purge Vol: 5.000 mL

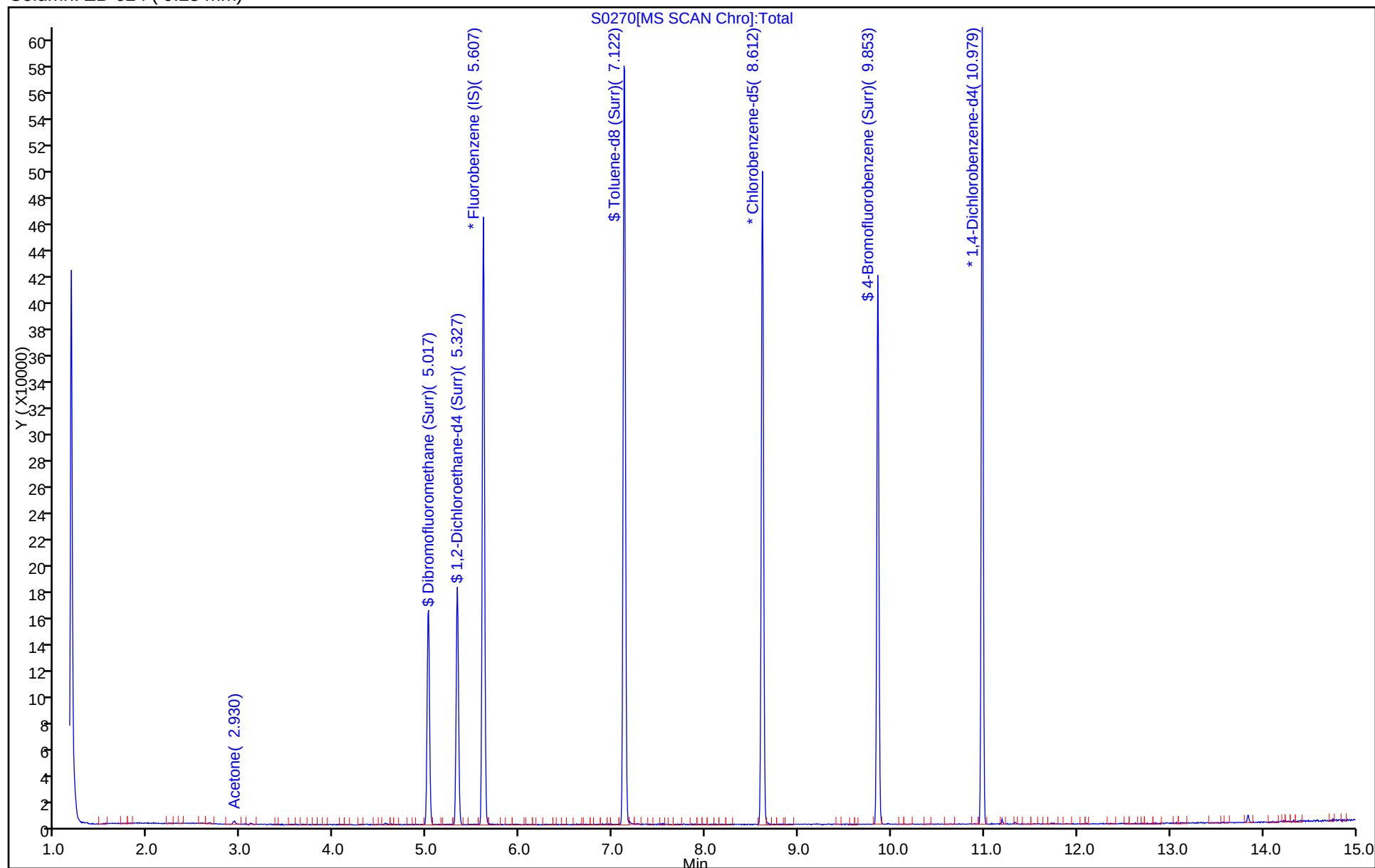
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: S-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.: 480-110191-1

SDG No.: _____

Client Sample ID: 4009-21 Lab Sample ID: 480-110191-14

Matrix: Water Lab File ID: S0279.D

Analysis Method: 8260C Date Collected: 11/28/2016 11:15

Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 22:00

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	19		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-21 Lab Sample ID: 480-110191-14
 Matrix: Water Lab File ID: S0279.D
 Analysis Method: 8260C Date Collected: 11/28/2016 11:15
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 22:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0279.D
 Lims ID: 480-110191-A-14
 Client ID: 4009-21
 Sample Type: Client
 Inject. Date: 02-Dec-2016 22:00:30 ALS Bottle#: 34 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-14
 Misc. Info.: 480-0058844-009
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:04:24 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:04:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	80032	25.0	
* 2 Chlorobenzene-d5	82	8.613	8.612	0.001	83	161157	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	160433	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	58	97612	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	63009	25.8	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	396326	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	87	123286	23.1	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78	5.333	5.333	0.000	95	275168	19.4	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0279.D

Injection Date: 02-Dec-2016 22:00:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-14

Lab Sample ID: 480-110191-14

Worklist Smp#: 9

Client ID: 4009-21

Purge Vol: 5.000 mL

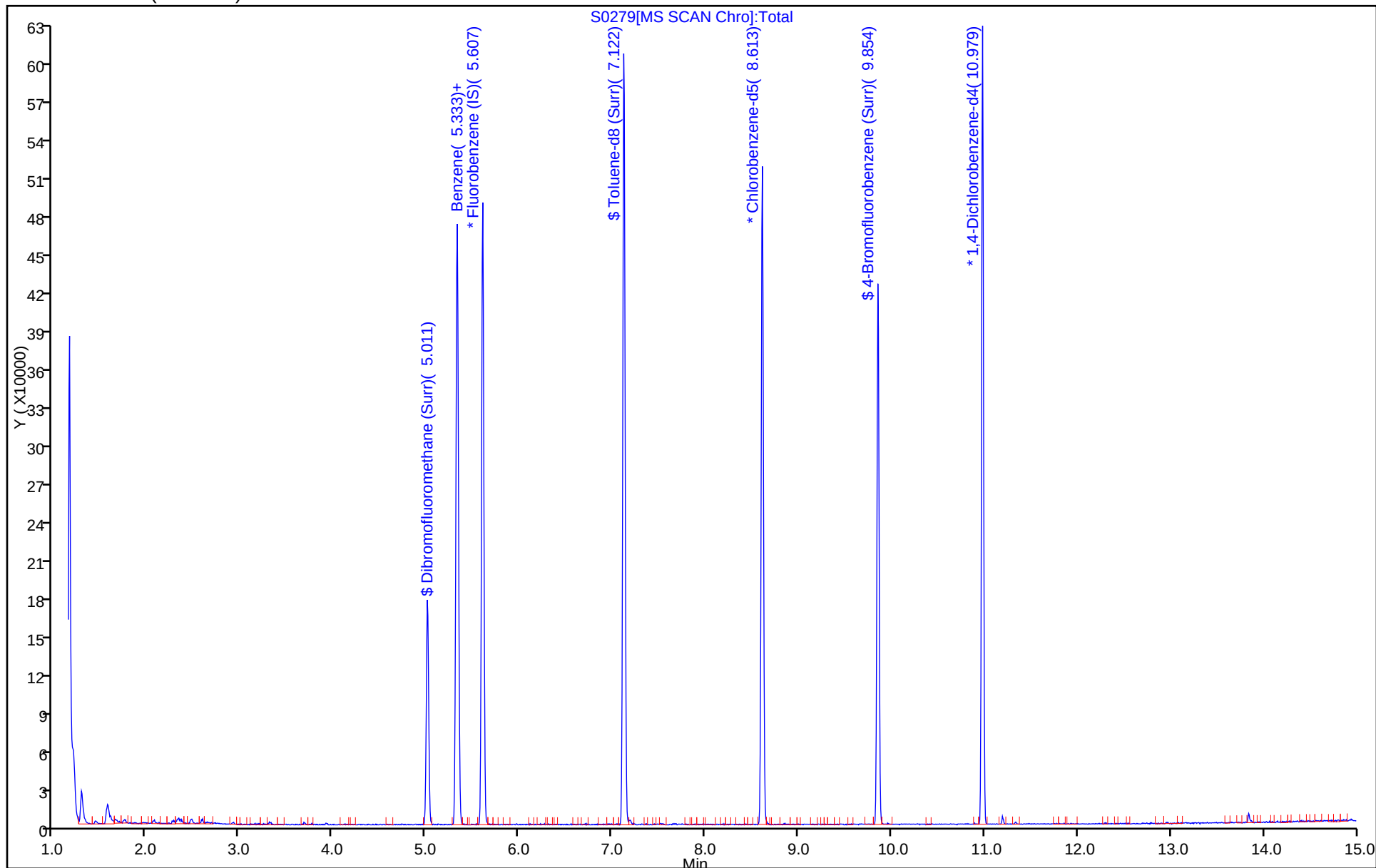
Dil. Factor: 1.0000

ALS Bottle#: 34

Method: S-8260

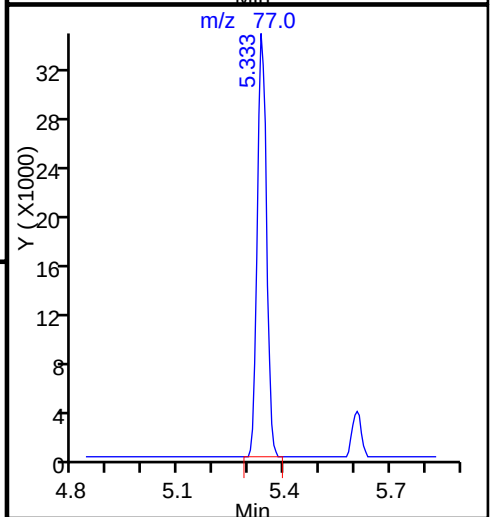
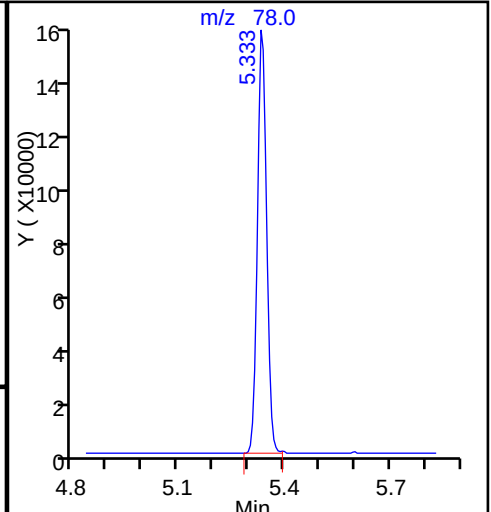
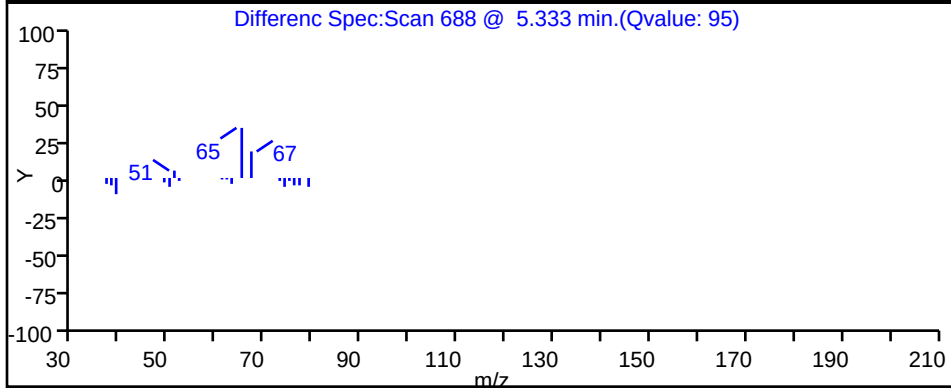
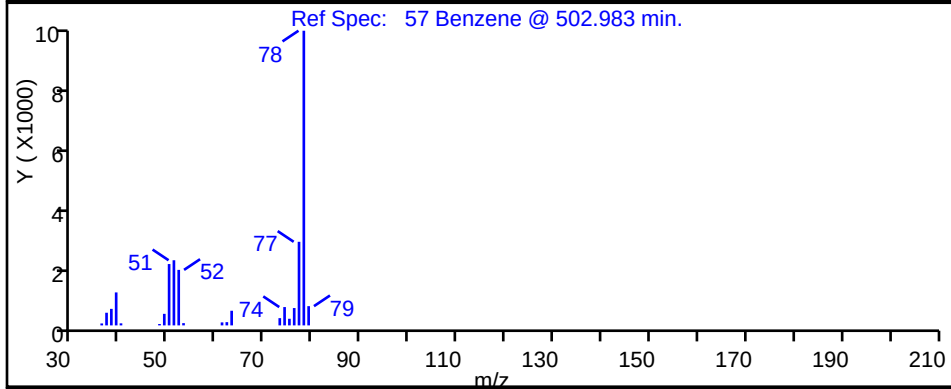
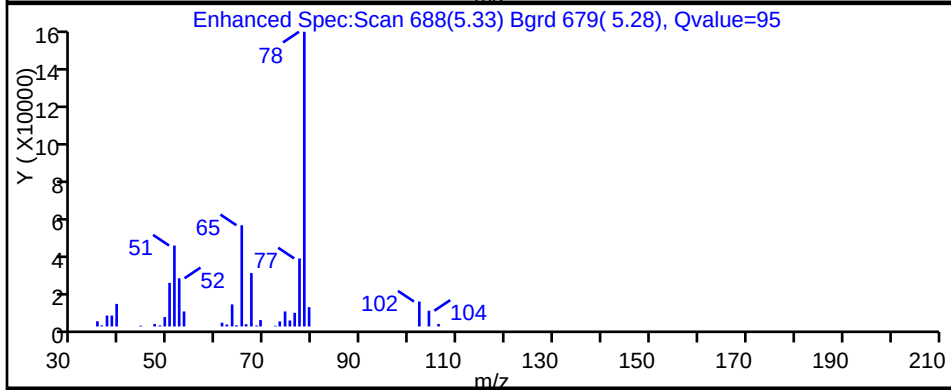
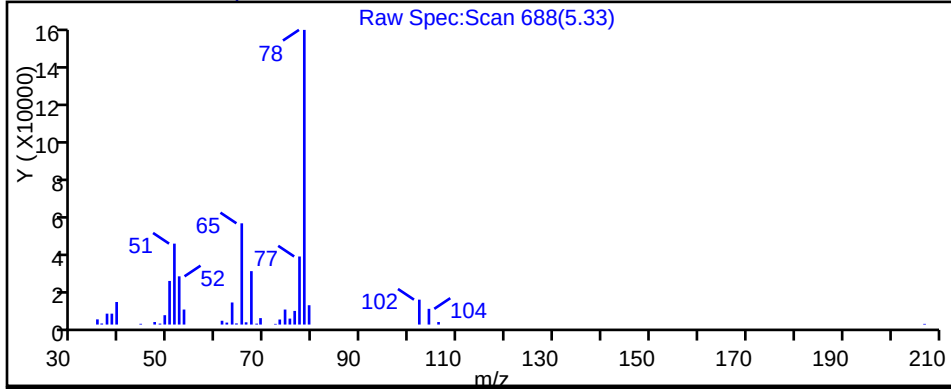
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0279.D
Injection Date: 02-Dec-2016 22:00:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-14 Lab Sample ID: 480-110191-14
Client ID: 4009-21
Operator ID: SO ALS Bottle#: 34 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Client Sample ID: 4009-22 Lab Sample ID: 480-110191-15

Matrix: Water Lab File ID: S0280.D

Analysis Method: 8260C Date Collected: 11/28/2016 10:25

Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 22:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.1		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-22 Lab Sample ID: 480-110191-15
 Matrix: Water Lab File ID: S0280.D
 Analysis Method: 8260C Date Collected: 11/28/2016 10:25
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 22:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.3		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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0280.D
 Lims ID: 480-110191-A-15
 Client ID: 4009-22
 Sample Type: Client
 Inject. Date: 02-Dec-2016 22:24:30 ALS Bottle#: 35 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-15
 Misc. Info.: 480-0058844-010
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:04:46 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:04:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76846	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	157922	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	160186	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	93441	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	58933	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	91	385261	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	91	126172	24.1	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78	5.340	5.333	0.007	27	15596	1.15	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92	7.189	7.189	0.000	71	11998	1.33	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0280.D

Injection Date: 02-Dec-2016 22:24:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-15

Lab Sample ID: 480-110191-15

Worklist Smp#: 10

Client ID: 4009-22

Purge Vol: 5.000 mL

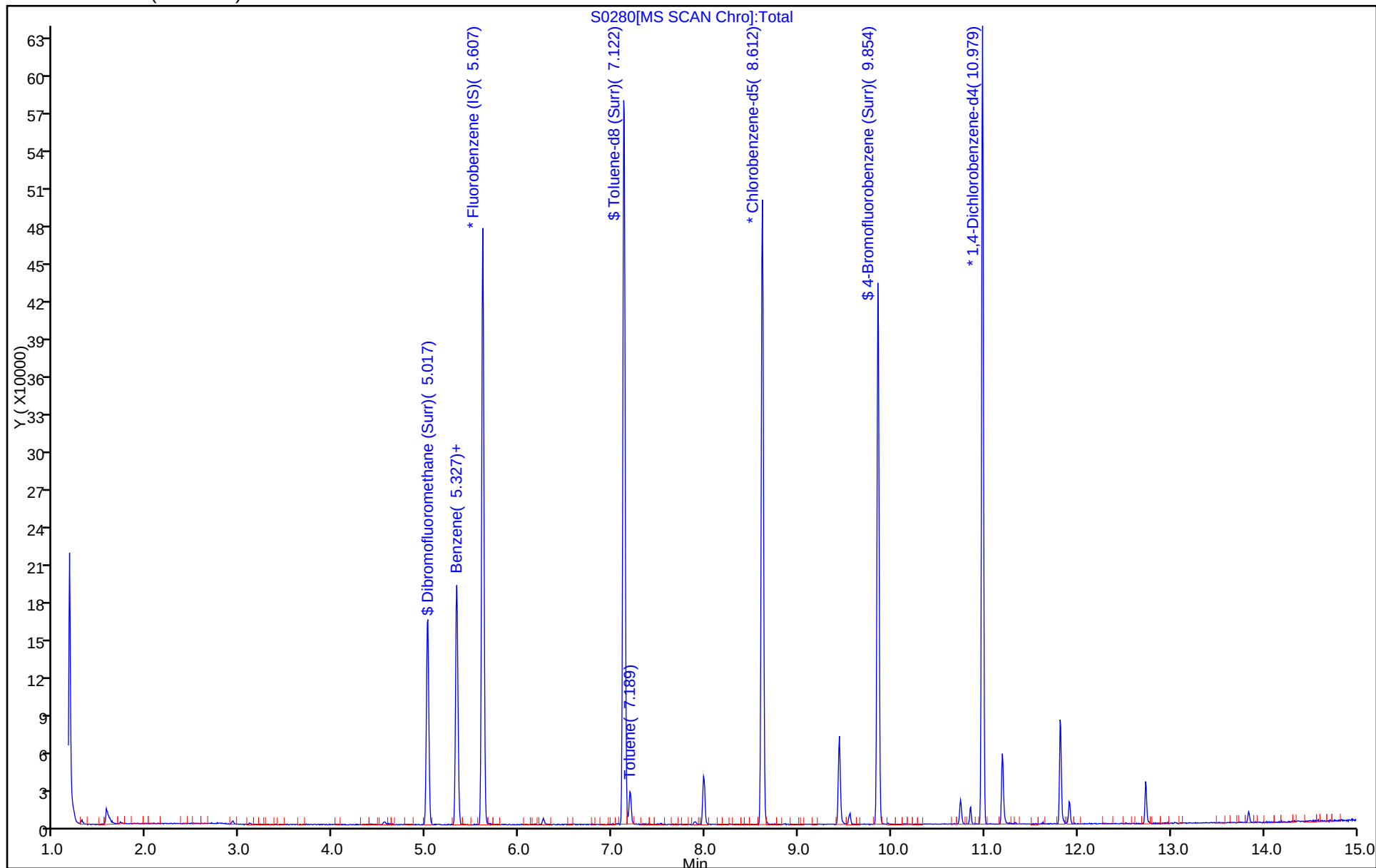
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0280.D

Injection Date: 02-Dec-2016 22:24:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-15

Lab Sample ID: 480-110191-15

Client ID: 4009-22

Operator ID: SO

ALS Bottle#: 35

Worklist Smp#: 10

Purge Vol: 5.000 mL

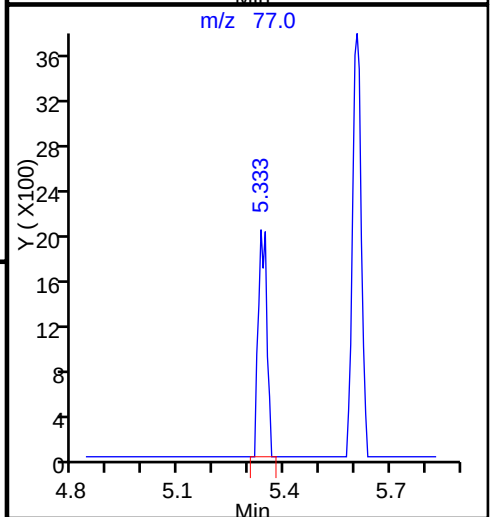
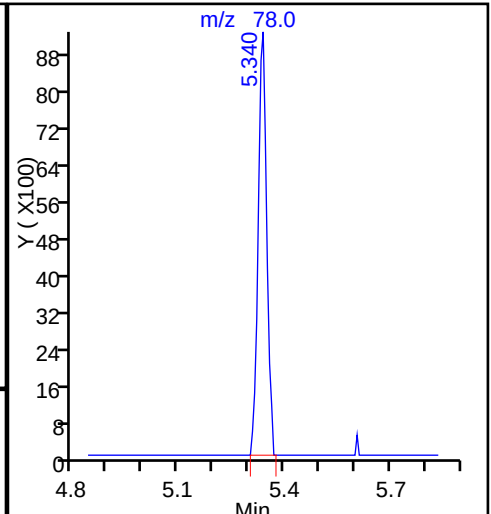
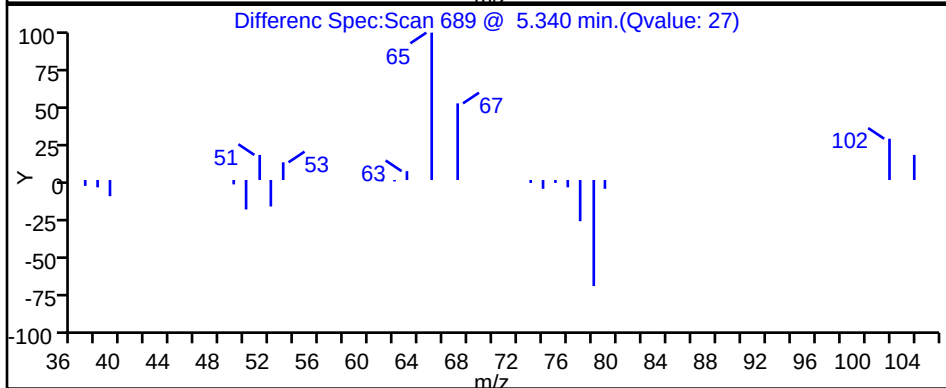
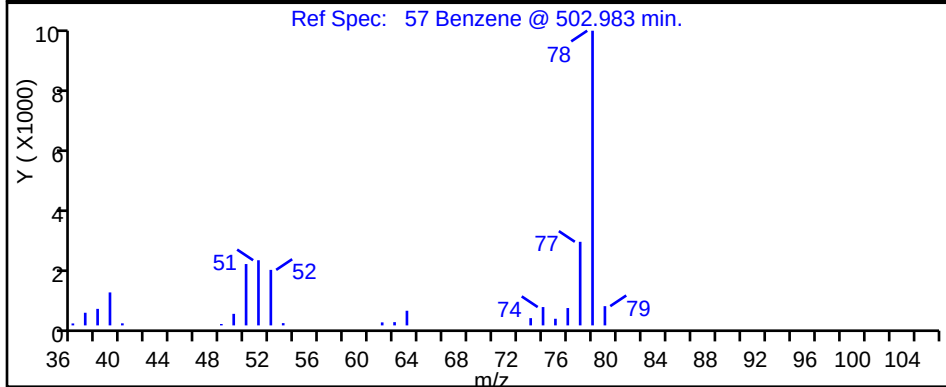
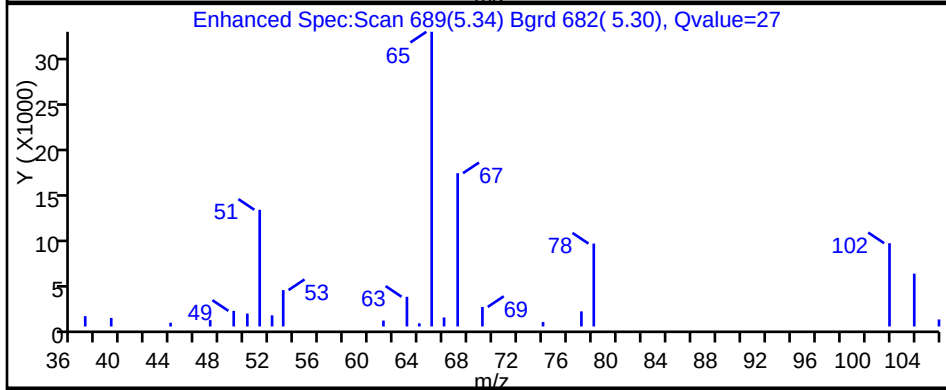
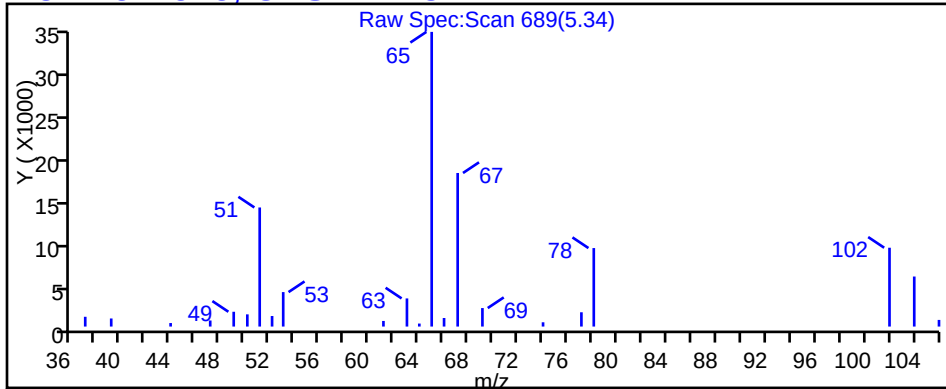
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0280.D

Injection Date: 02-Dec-2016 22:24:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-15

Lab Sample ID: 480-110191-15

Client ID: 4009-22

Operator ID: SO

ALS Bottle#: 35

Worklist Smp#: 10

Purge Vol: 5.000 mL

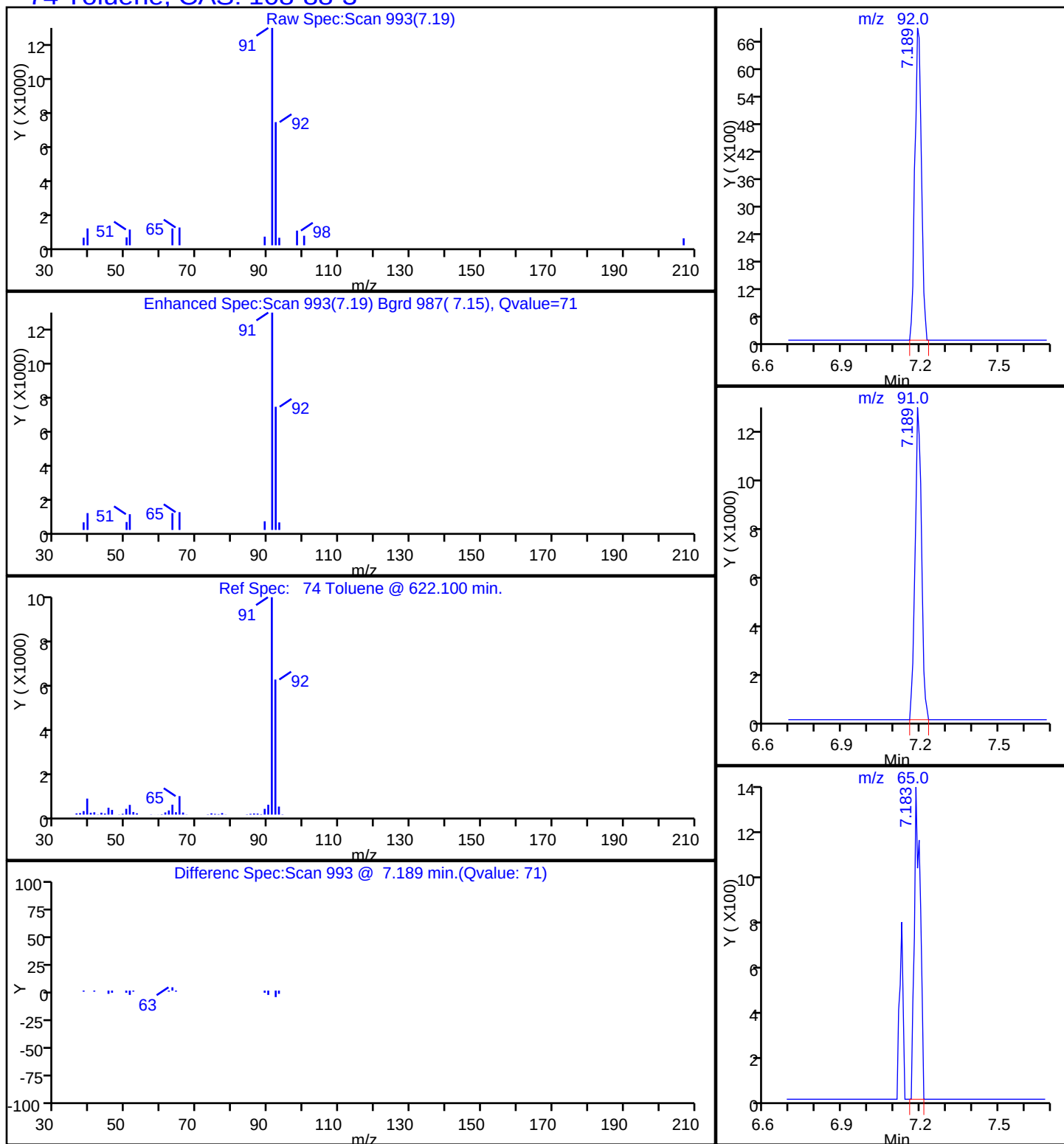
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27S</u>	Lab Sample ID: <u>480-110191-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0281.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 22:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	61		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	2.5		1.0	0.38
75-35-4	1,1-Dichloroethene	8.8		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	23		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-27S Lab Sample ID: 480-110191-16
 Matrix: Water Lab File ID: S0281.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:10
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 22:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	24		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D
 Lims ID: 480-110191-A-16
 Client ID: 4009-27S
 Sample Type: Client
 Inject. Date: 02-Dec-2016 22:47:30 ALS Bottle#: 36 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-16
 Misc. Info.: 480-0058844-011
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:04:46 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:05:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77730	25.0	
* 2 Chlorobenzene-d5	82	8.613	8.612	0.001	81	160473	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	154013	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	95627	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59823	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	396141	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	89	124513	23.4	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.791	2.797	-0.005	1	6546	2.64	
22 1,1-Dichloroethene	96	2.815	2.803	0.012	81	26474	8.82	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	59	15150	2.52	
45 cis-1,2-Dichloroethene	96	4.543	4.536	0.007	67	85680	23.2	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97	4.981	4.974	0.007	92	243955	60.7	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	95	84931	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Worklist Smp#: 11

Client ID: 4009-27S

Purge Vol: 5.000 mL

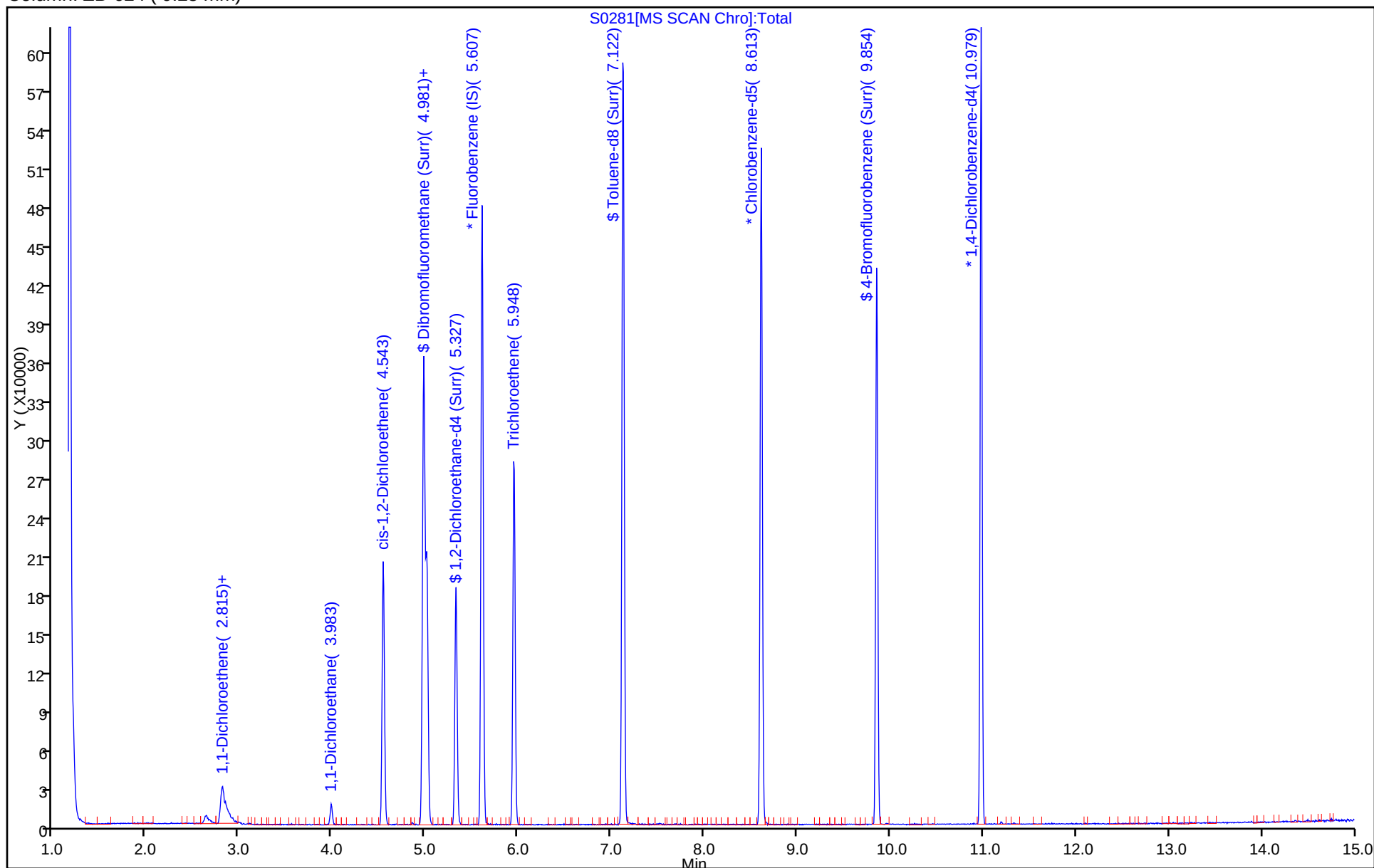
Dil. Factor: 1.0000

ALS Bottle#: 36

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Client ID: 4009-27S

Operator ID: SO

ALS Bottle#: 36

Worklist Smp#: 11

Purge Vol: 5.000 mL

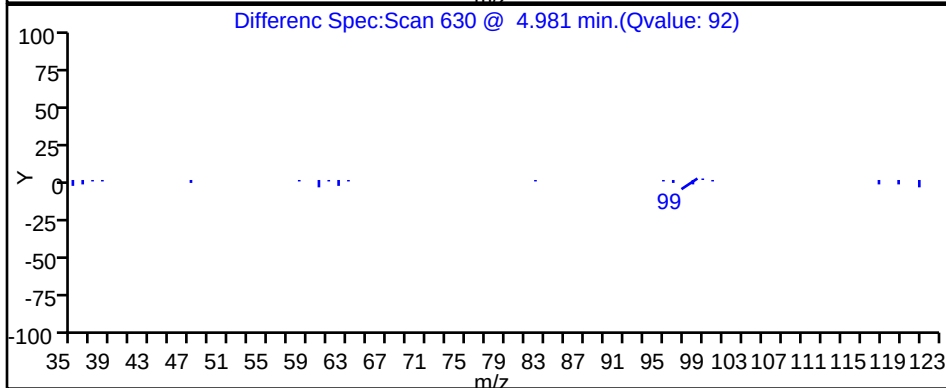
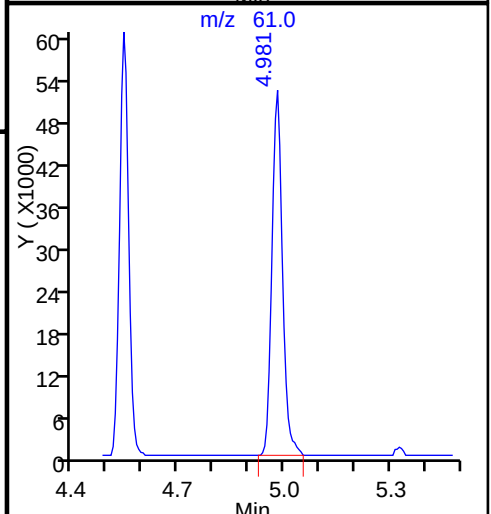
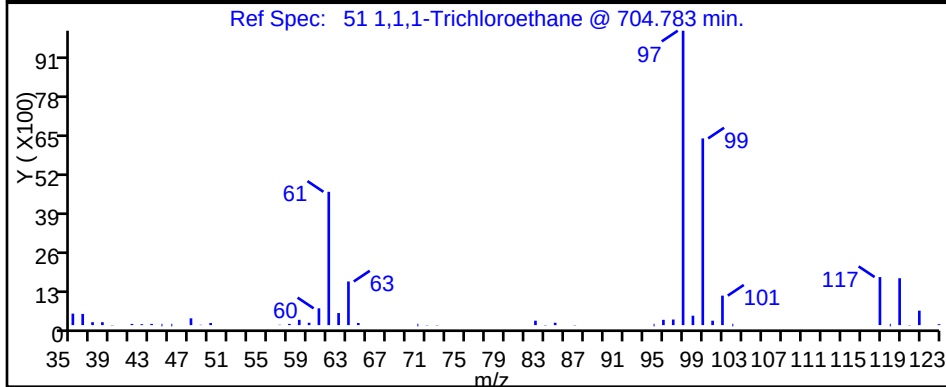
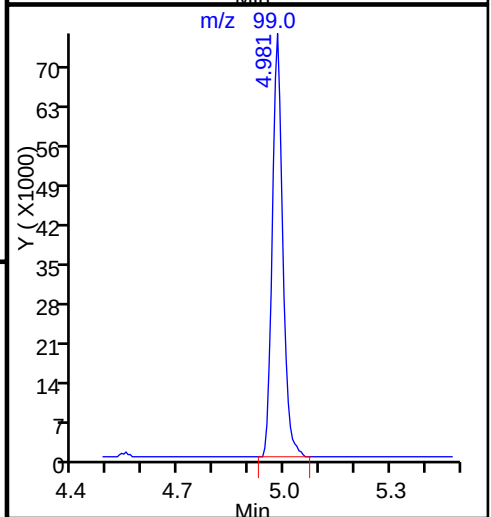
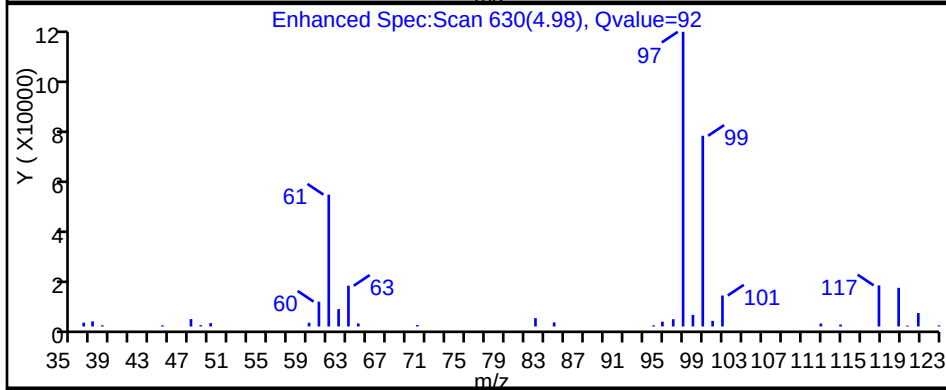
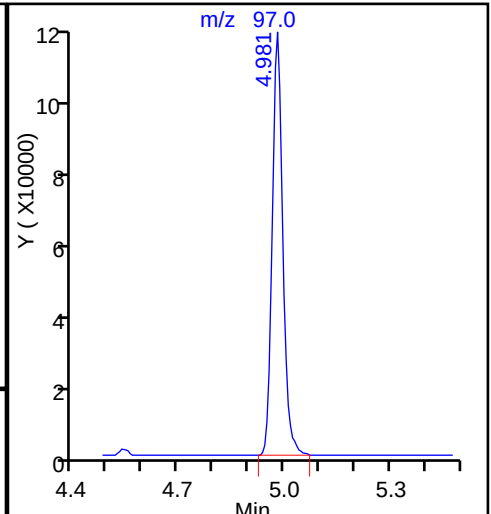
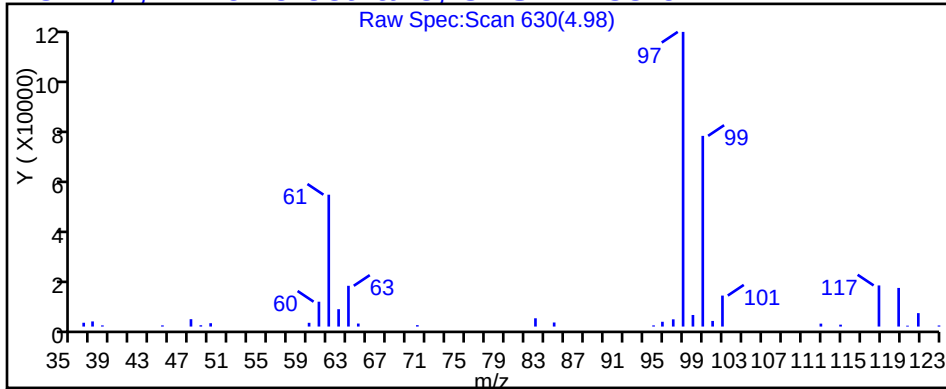
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Client ID: 4009-27S

Operator ID: SO

ALS Bottle#: 36

Worklist Smp#: 11

Purge Vol: 5.000 mL

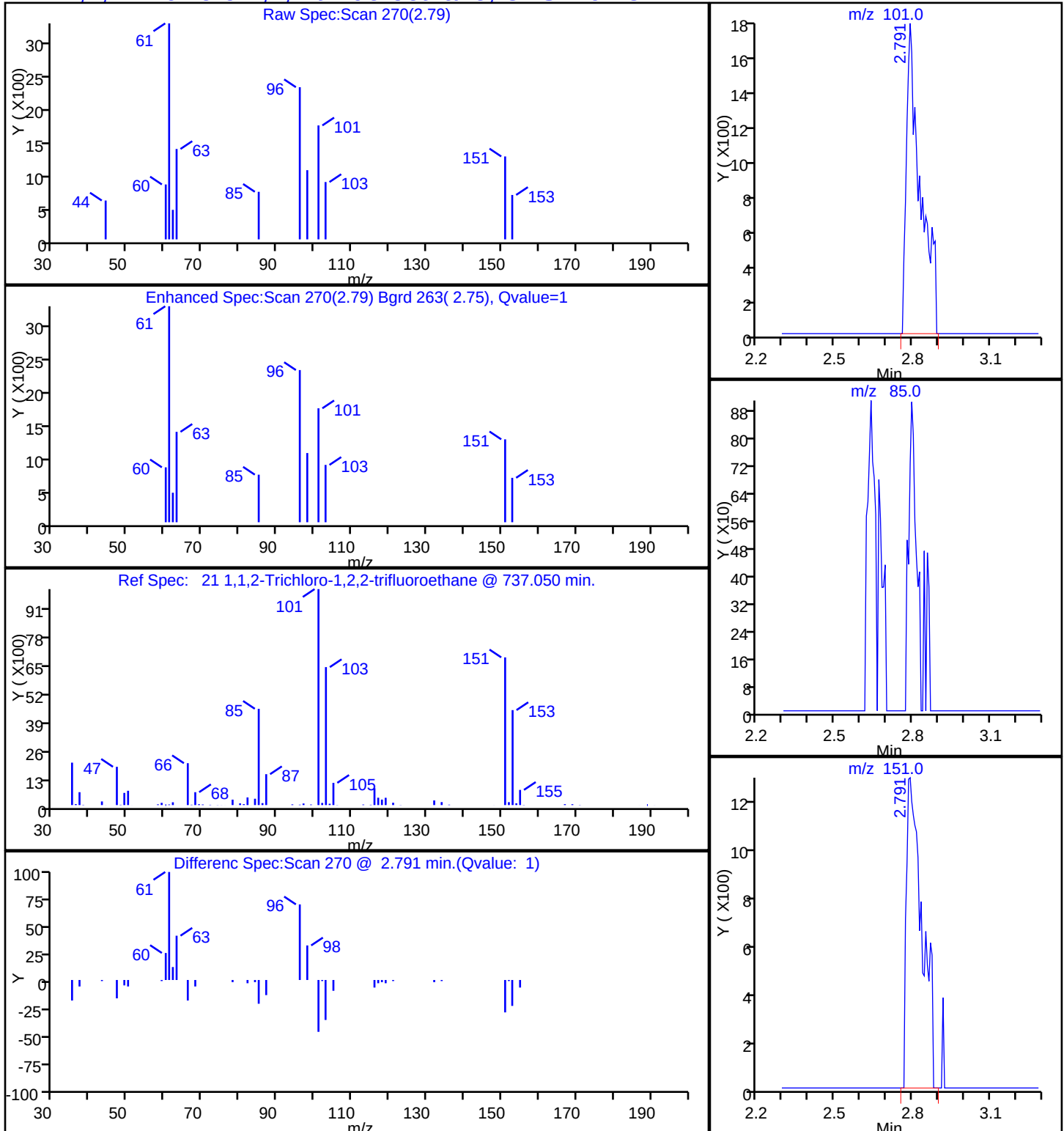
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Client ID: 4009-27S

Operator ID: SO

ALS Bottle#: 36

Worklist Smp#: 11

Purge Vol: 5.000 mL

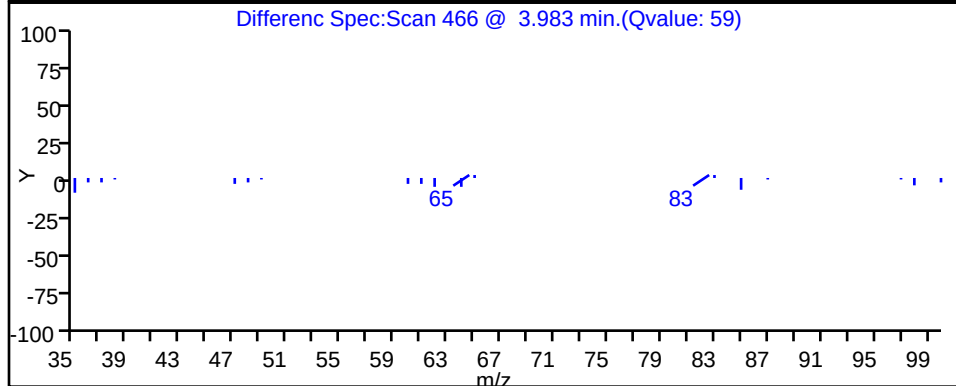
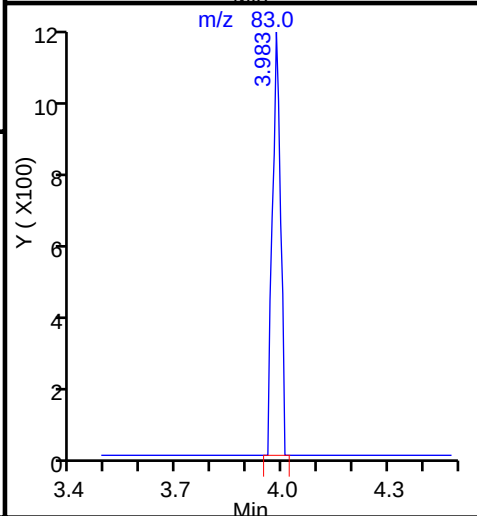
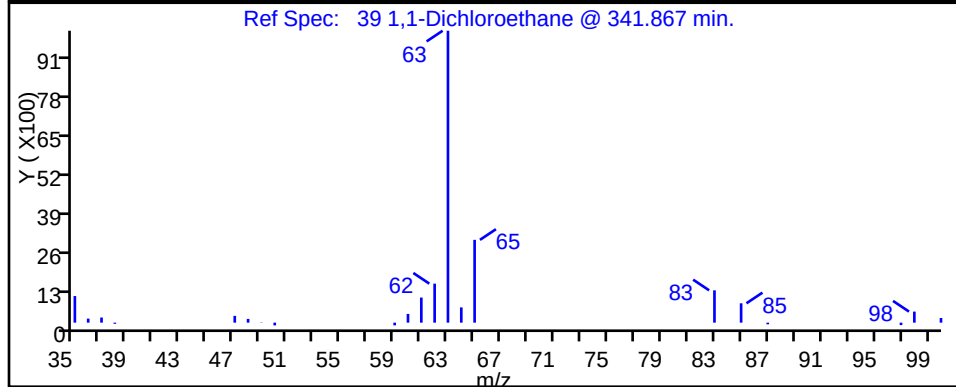
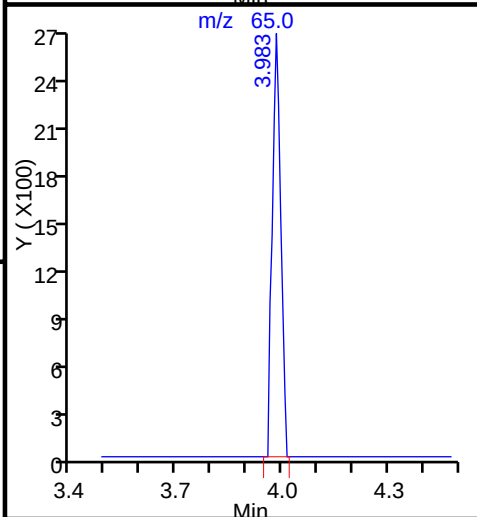
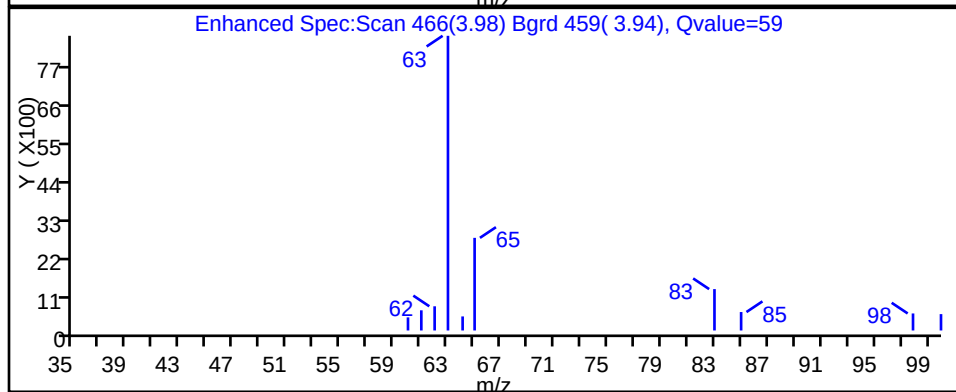
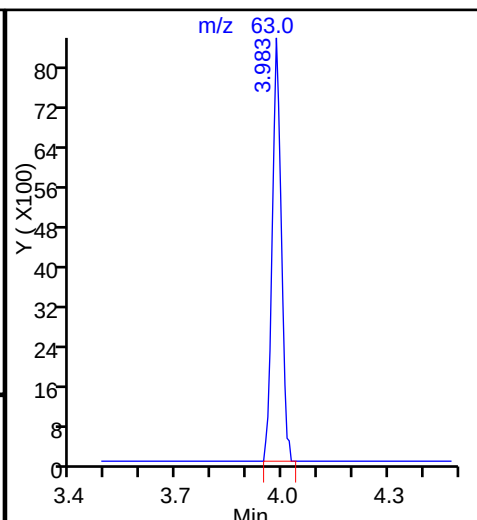
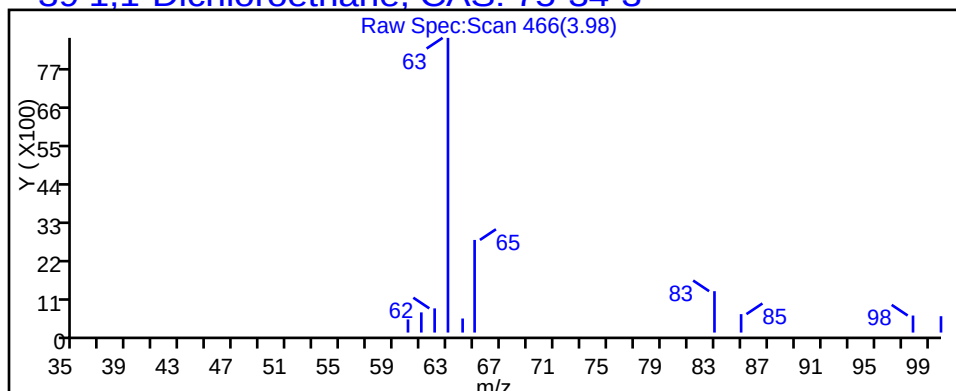
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Client ID: 4009-27S

Operator ID: SO

ALS Bottle#: 36

Worklist Smp#: 11

Purge Vol: 5.000 mL

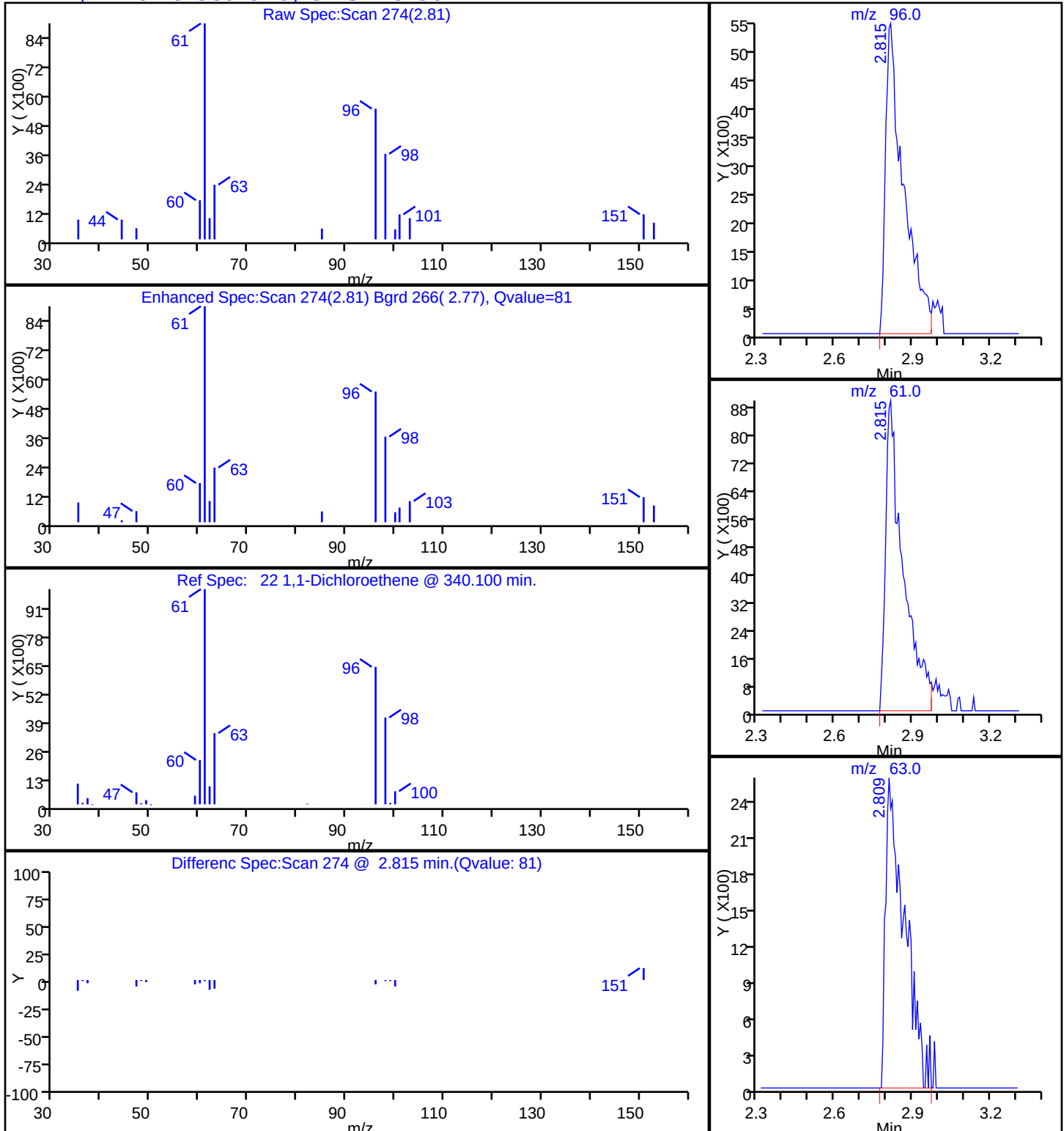
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Client ID: 4009-27S

Operator ID: SO

ALS Bottle#: 36

Worklist Smp#: 11

Purge Vol: 5.000 mL

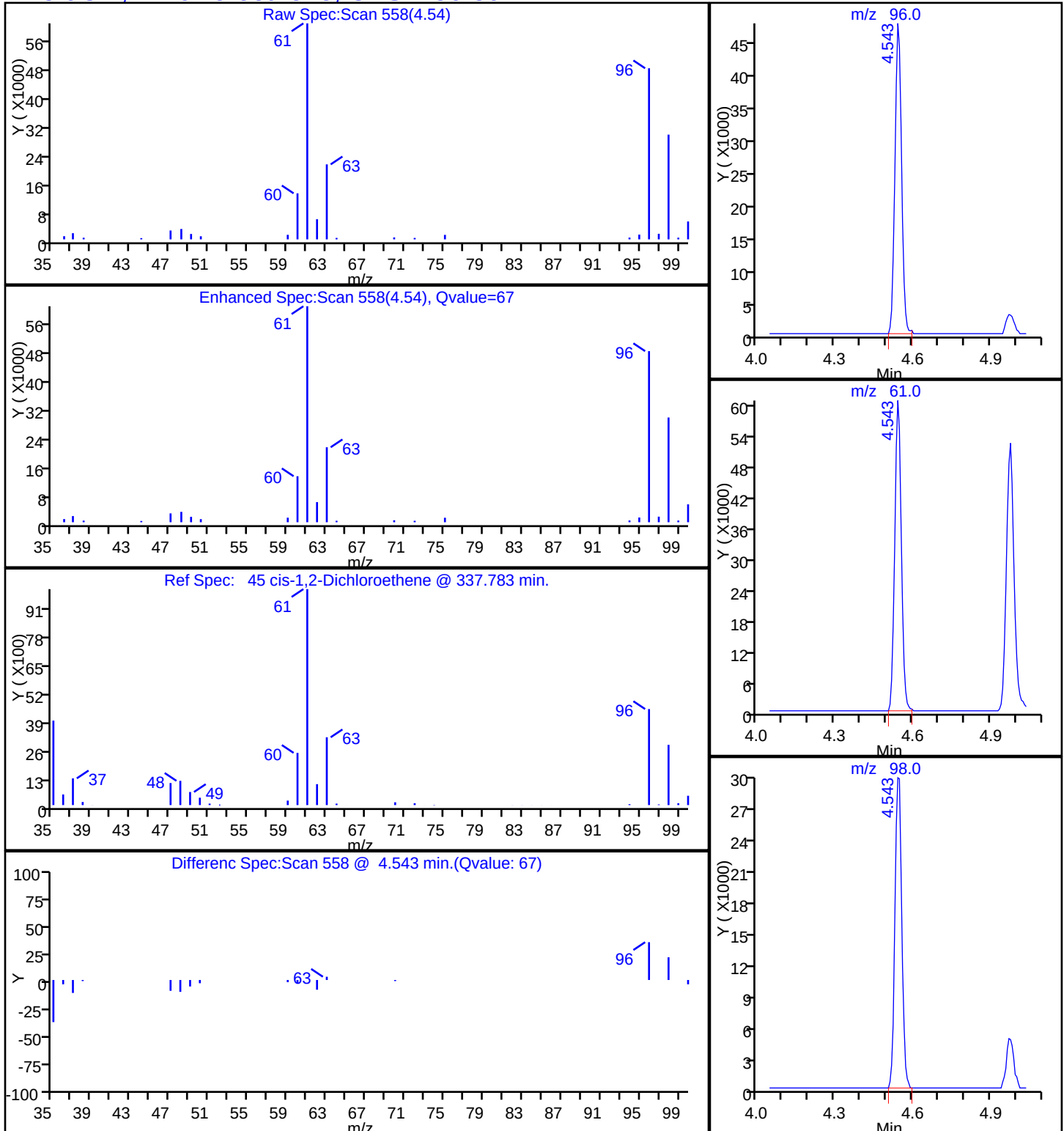
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0281.D

Injection Date: 02-Dec-2016 22:47:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-16

Lab Sample ID: 480-110191-16

Client ID: 4009-27S

Operator ID: SO

ALS Bottle#: 36

Worklist Smp#: 11

Purge Vol: 5.000 mL

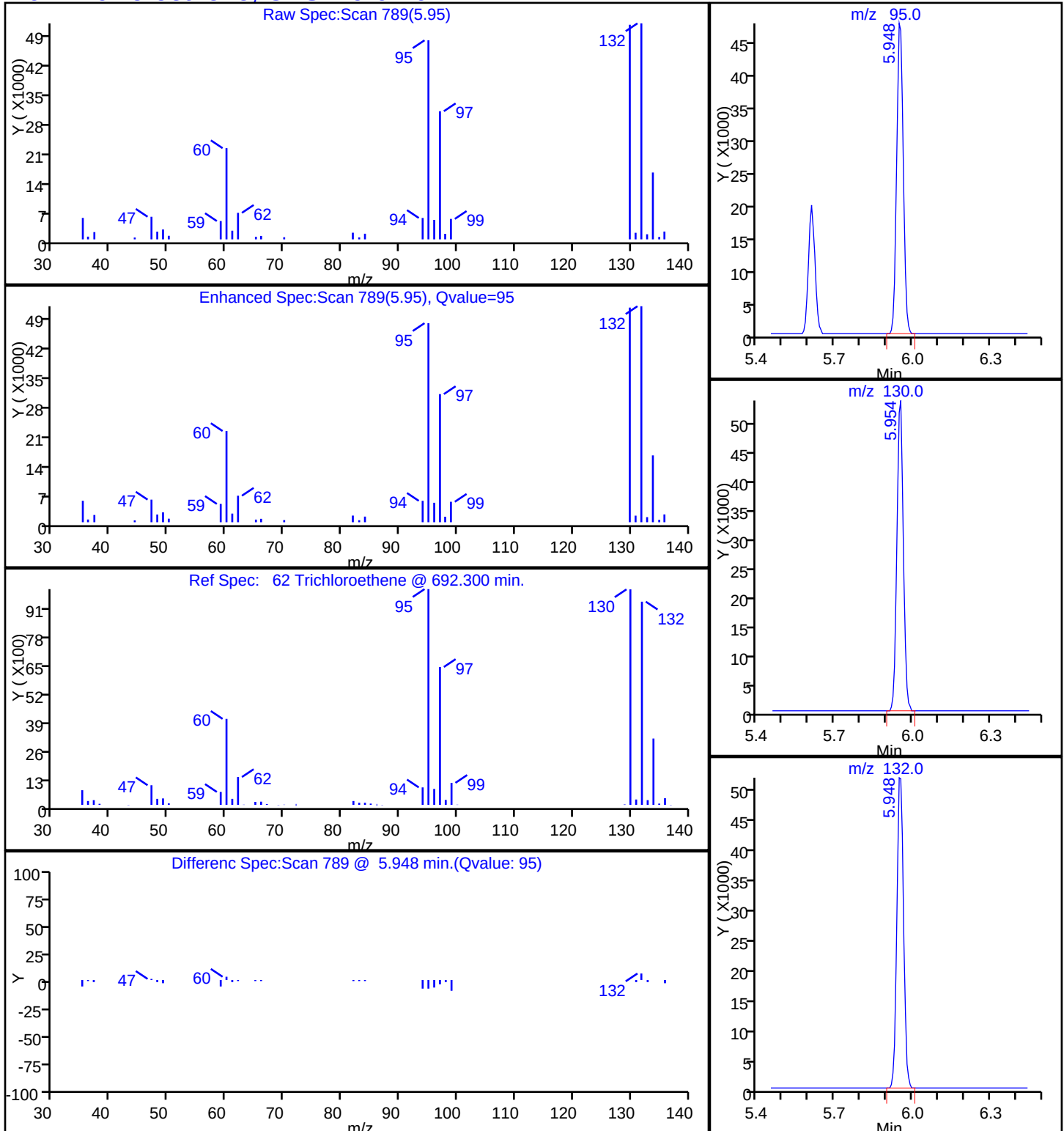
Dil. Factor: 1.0000

Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I</u>	Lab Sample ID: <u>480-110191-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0282.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 23:10</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	3.0
71-43-2	Benzene	1.5		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-27I Lab Sample ID: 480-110191-17
 Matrix: Water Lab File ID: S0282.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 23:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0282.D
 Lims ID: 480-110191-A-17
 Client ID: 4009-271
 Sample Type: Client
 Inject. Date: 02-Dec-2016 23:10:30 ALS Bottle#: 37 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-17
 Misc. Info.: 480-0058844-012
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:04:46 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:05:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76945	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	157147	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	152589	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	93402	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60220	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	385403	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.853	0.007	92	119386	23.0	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78	5.333	5.333	0.000	45	20333	1.49	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0282.D

Injection Date: 02-Dec-2016 23:10:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-17

Lab Sample ID: 480-110191-17

Worklist Smp#: 12

Client ID: 4009-271

Purge Vol: 5.000 mL

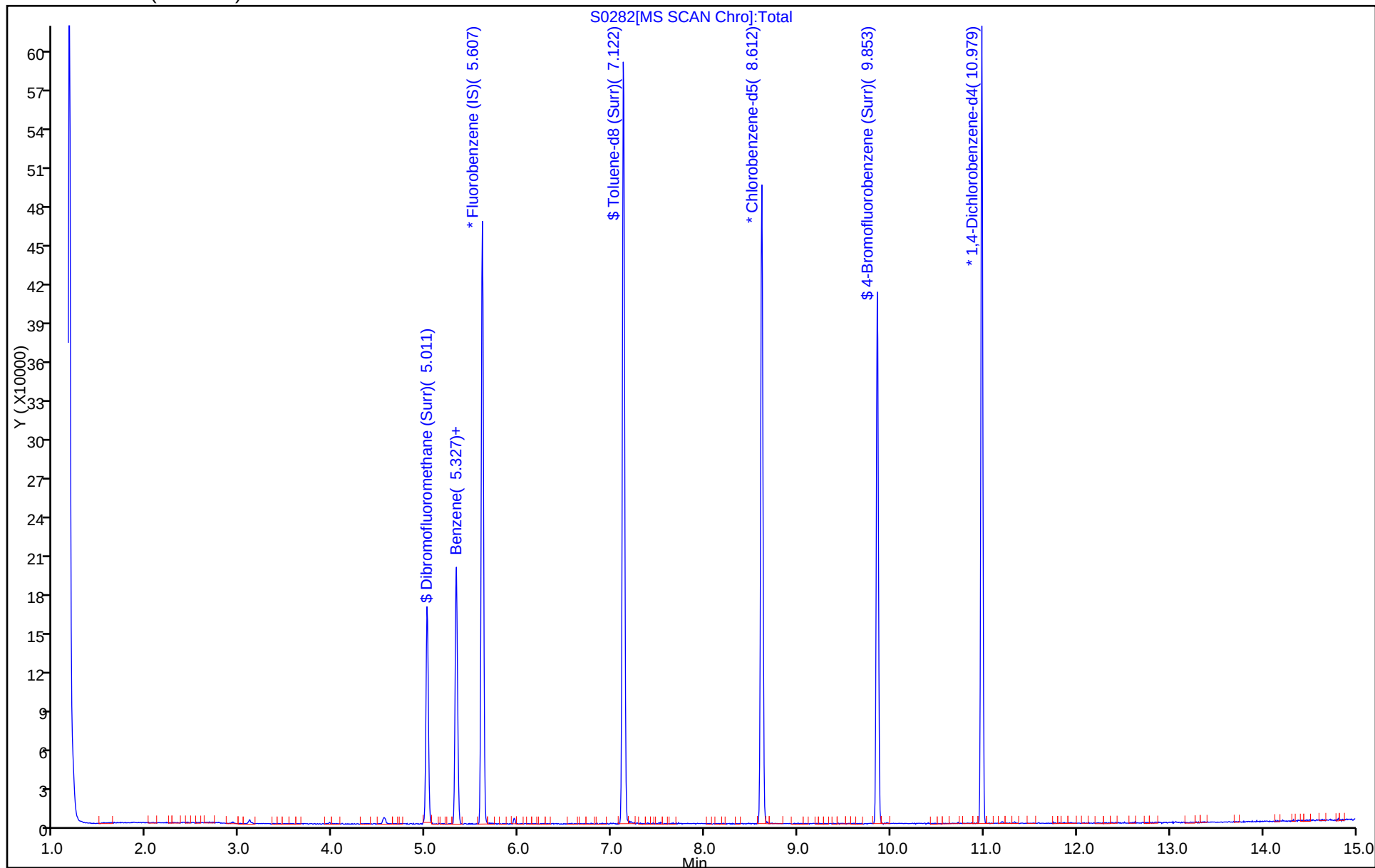
Dil. Factor: 1.0000

ALS Bottle#: 37

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0282.D

Injection Date: 02-Dec-2016 23:10:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-17

Lab Sample ID: 480-110191-17

Client ID: 4009-271

Operator ID: SO

ALS Bottle#: 37

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

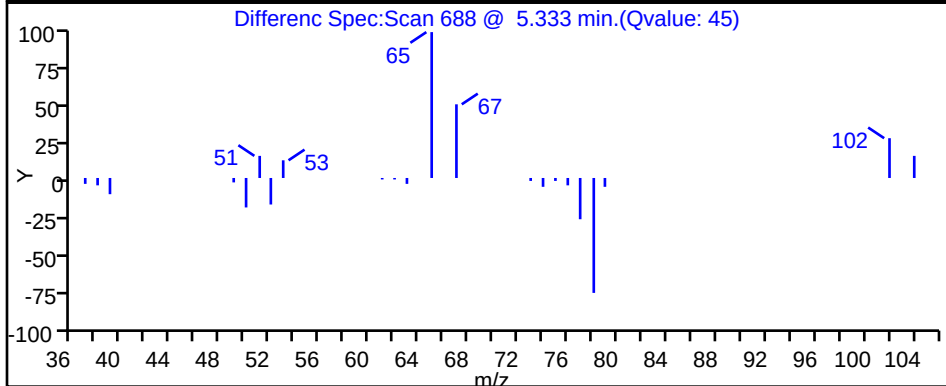
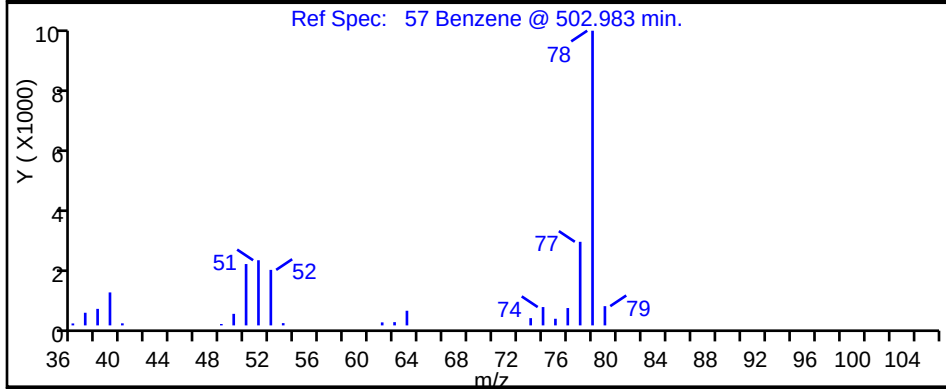
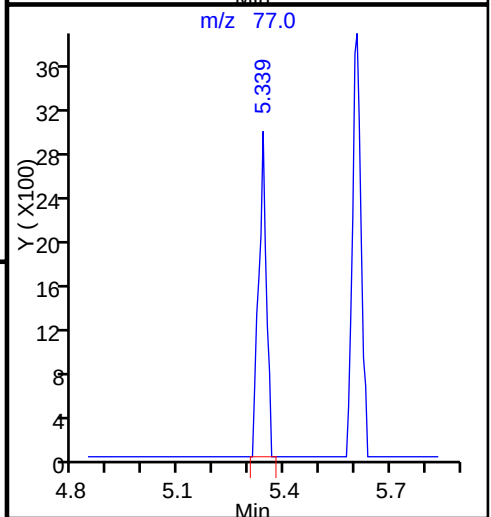
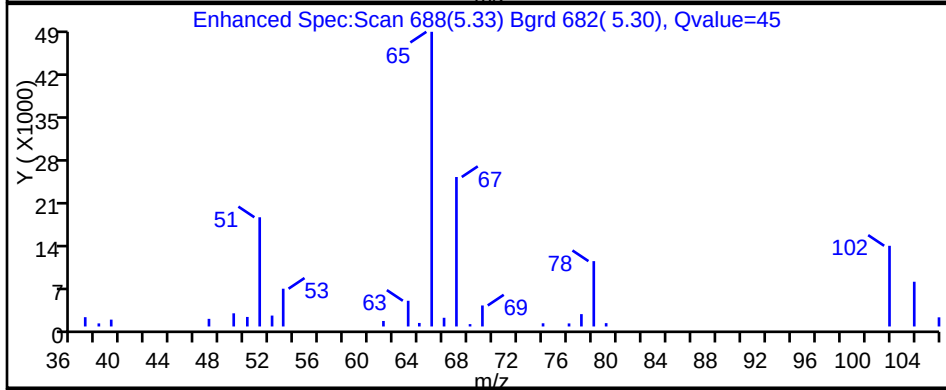
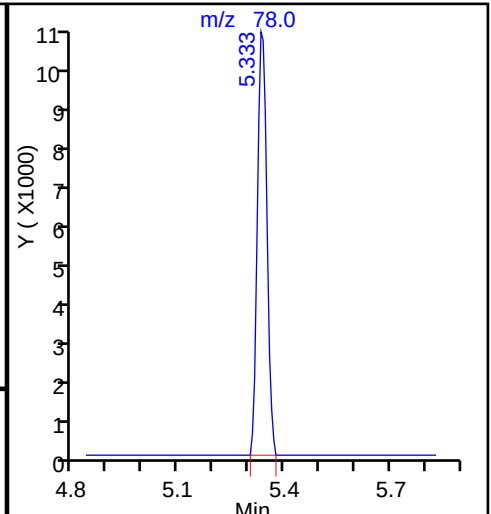
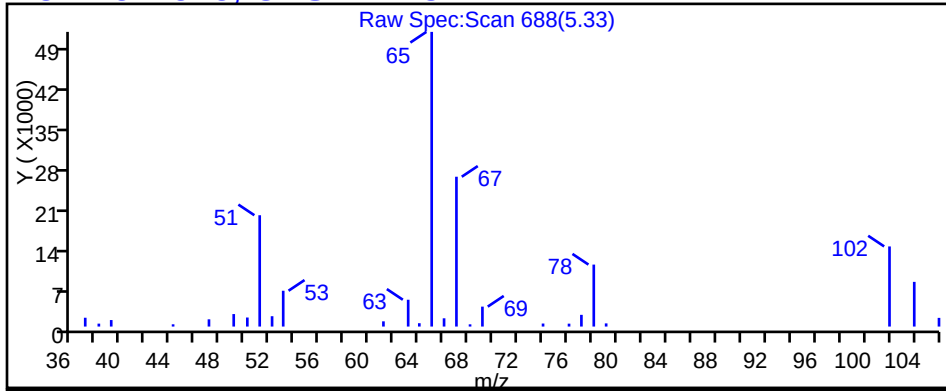
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27D</u>	Lab Sample ID: <u>480-110191-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0283.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 23:33</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-27D Lab Sample ID: 480-110191-18
 Matrix: Water Lab File ID: S0283.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 23:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0283.D
 Lims ID: 480-110191-A-18
 Client ID: 4009-27D
 Sample Type: Client
 Inject. Date: 02-Dec-2016 23:33:30 ALS Bottle#: 38 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-18
 Misc. Info.: 480-0058844-015
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:04:46 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:05:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78223	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	86	157581	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	153694	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	56	93497	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	58062	24.3	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	383198	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	120268	23.1	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0283.D

Injection Date: 02-Dec-2016 23:33:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-18

Lab Sample ID: 480-110191-18

Worklist Smp#: 15

Client ID: 4009-27D

Purge Vol: 5.000 mL

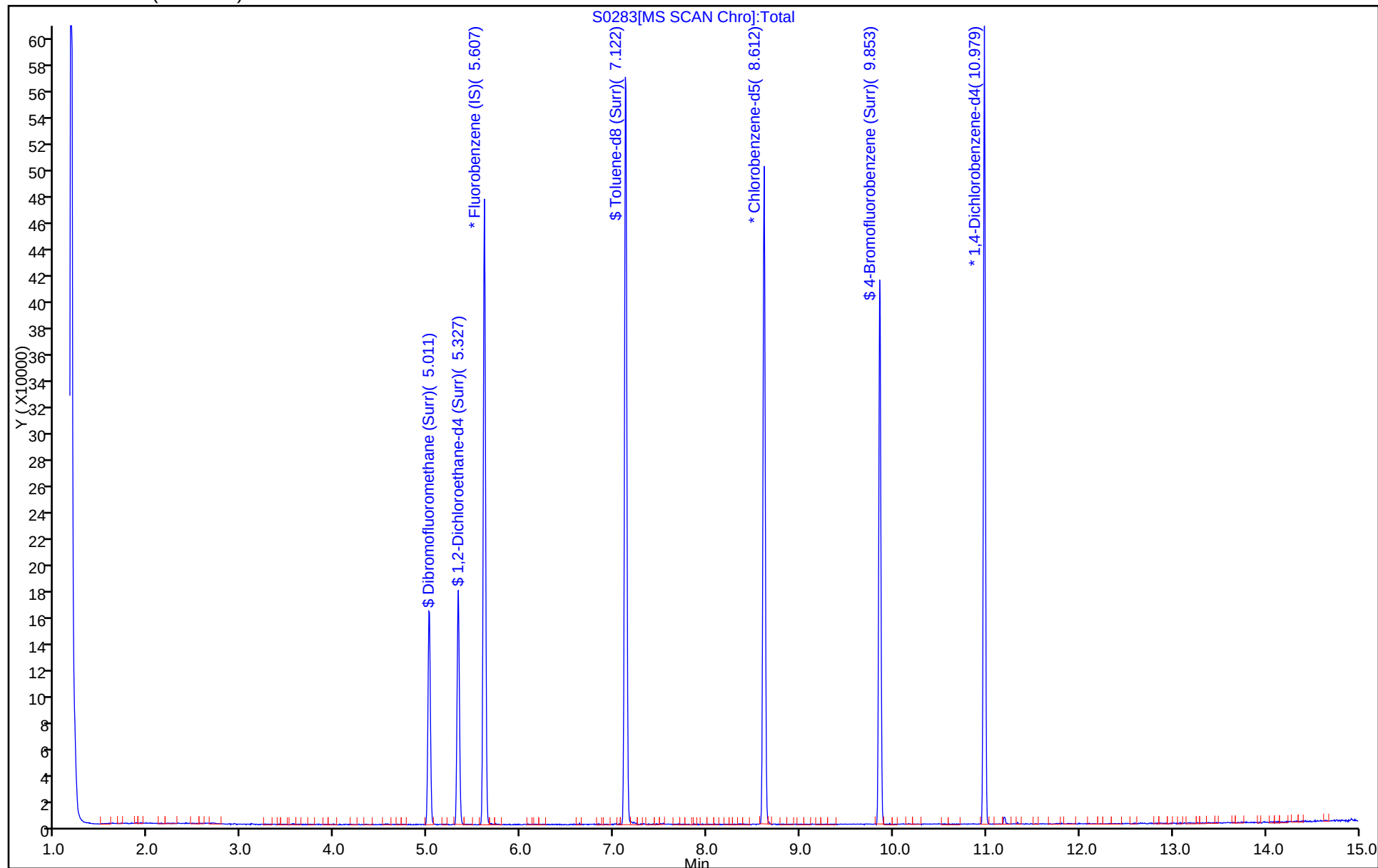
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-28</u>	Lab Sample ID: <u>480-110191-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0284.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 10:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/02/2016 23:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-28 Lab Sample ID: 480-110191-19
 Matrix: Water Lab File ID: S0284.D
 Analysis Method: 8260C Date Collected: 11/28/2016 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 23:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0284.D
 Lims ID: 480-110191-A-19
 Client ID: 4009-28
 Sample Type: Client
 Inject. Date: 02-Dec-2016 23:56:30 ALS Bottle#: 39 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-19
 Misc. Info.: 480-0058844-016
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:04:46 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:05:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76949	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	155225	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	153186	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	93282	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59678	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	385096	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	121982	23.7	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97	4.980	4.974	0.006	63	10036	2.52	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0284.D

Injection Date: 02-Dec-2016 23:56:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-19

Lab Sample ID: 480-110191-19

Worklist Smp#: 16

Client ID: 4009-28

Purge Vol: 5.000 mL

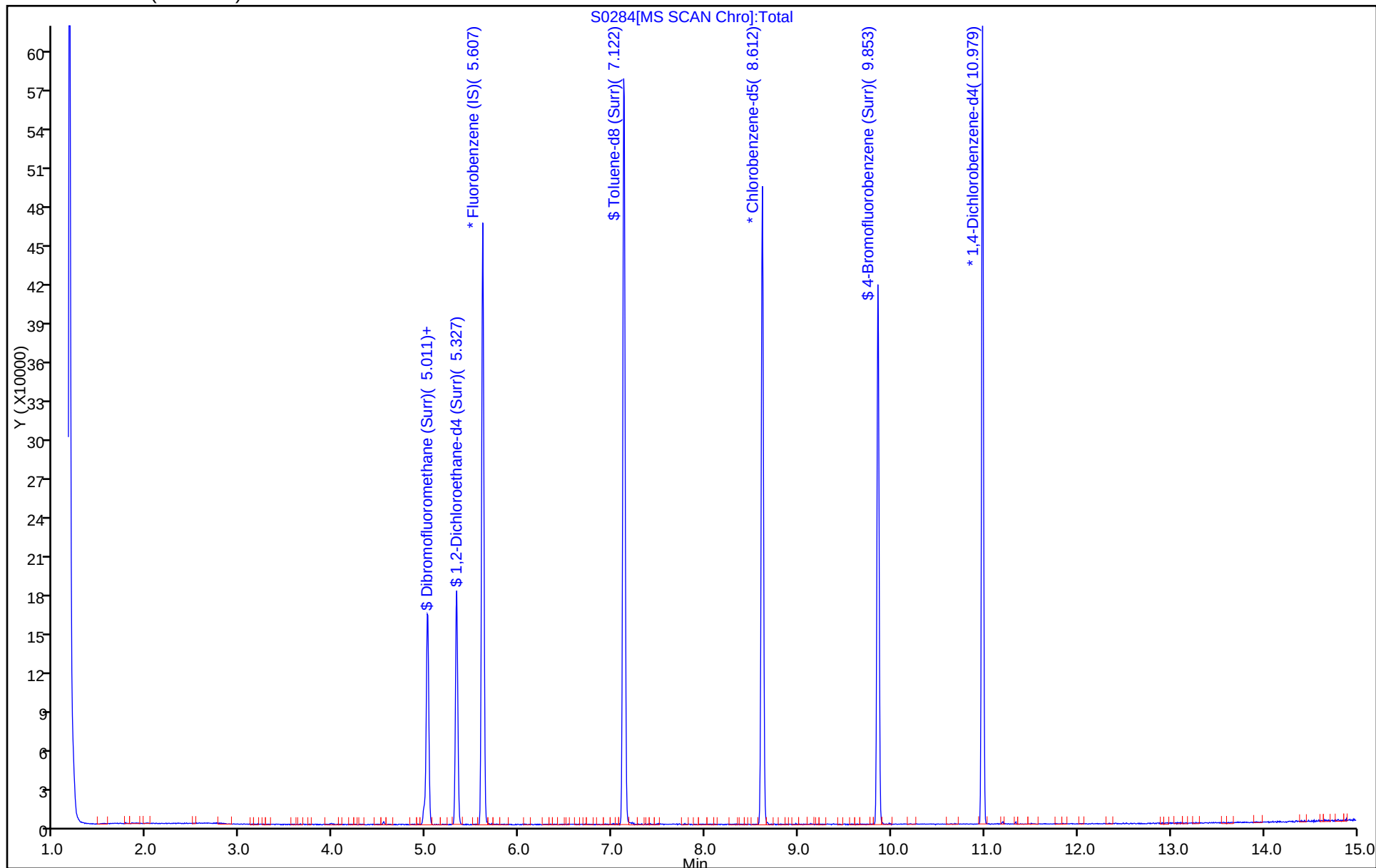
Dil. Factor: 1.0000

ALS Bottle#: 39

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0284.D

Injection Date: 02-Dec-2016 23:56:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-19

Lab Sample ID: 480-110191-19

Client ID: 4009-28

Operator ID: SO

ALS Bottle#: 39

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

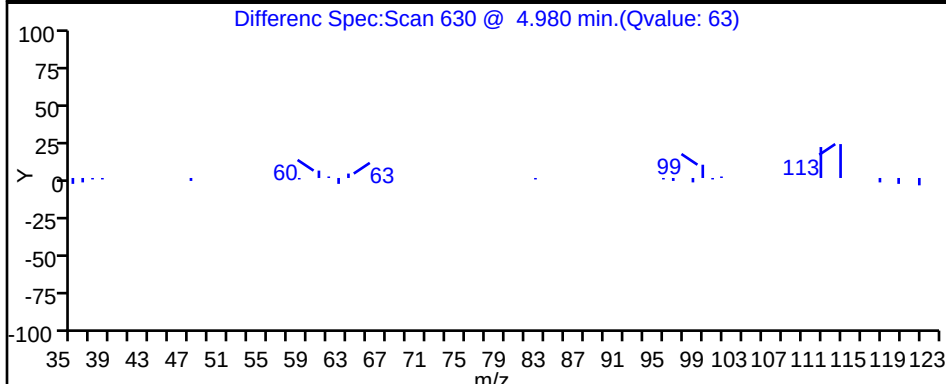
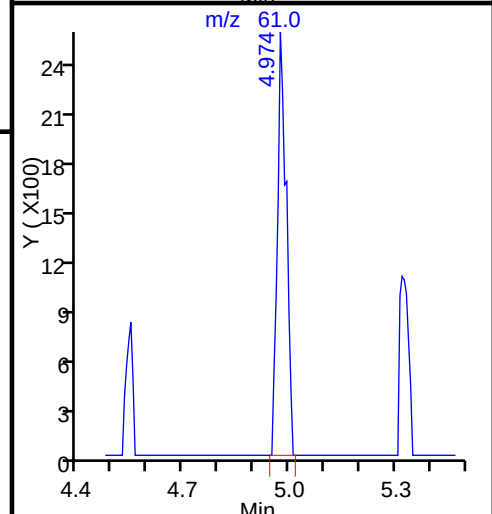
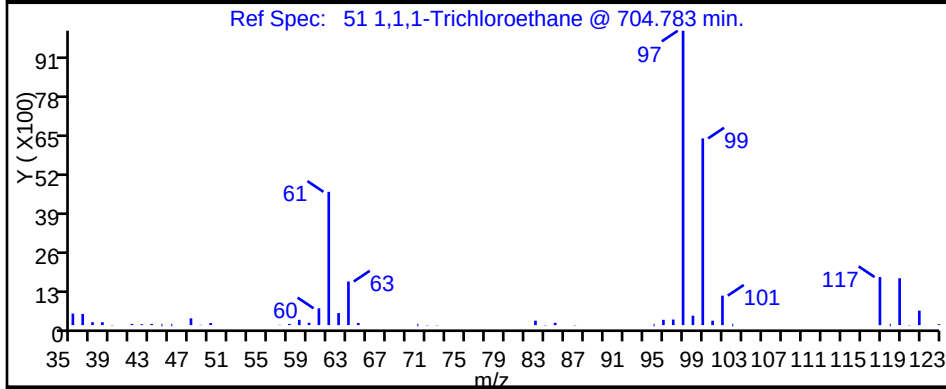
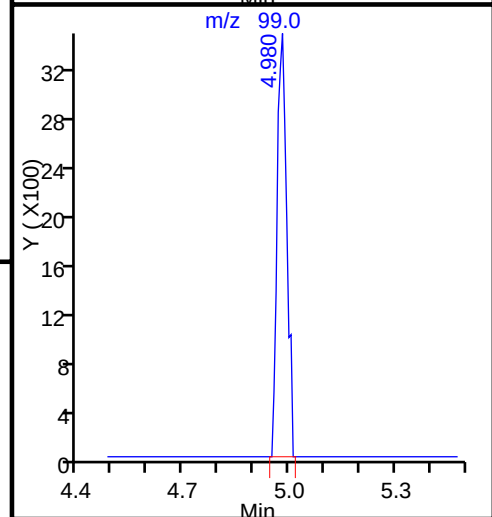
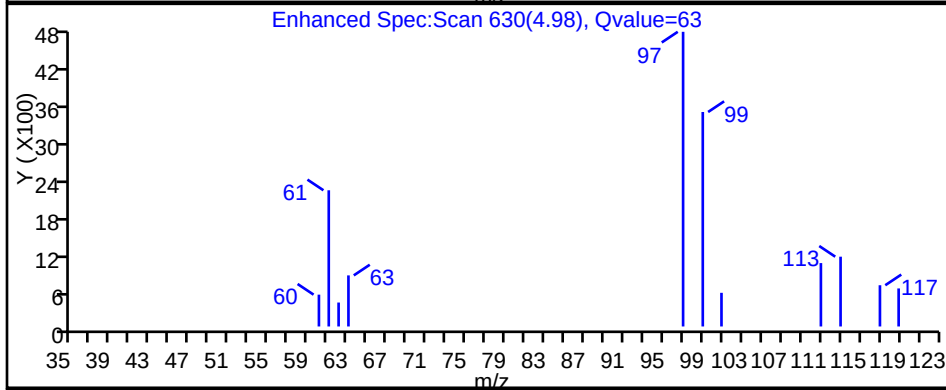
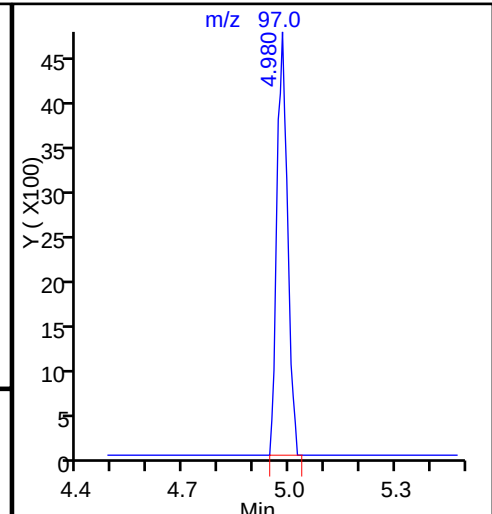
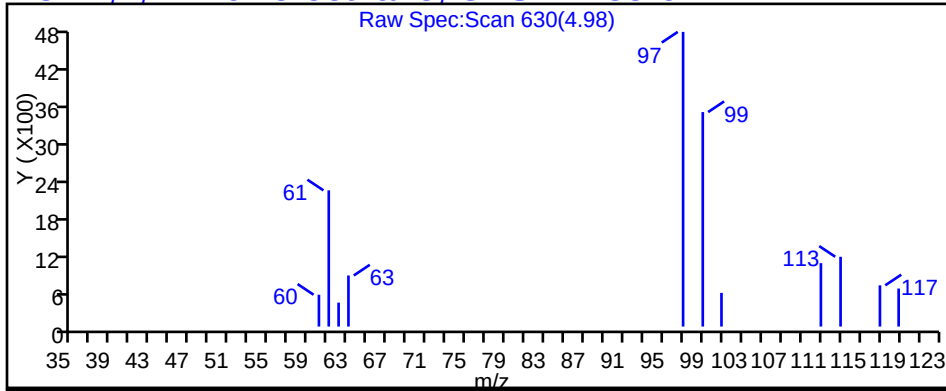
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-29S</u>	Lab Sample ID: <u>480-110191-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0311.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 13:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 13:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334565</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	23		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	50		2.0	0.76
75-35-4	1,1-Dichloroethene	3.2		2.0	0.58
526-73-8	1,2,3-Trimethylbenzene	2.0	U	2.0	0.52
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
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
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0	1.7
78-93-3	2-Butanone (MEK)	20	U	20	2.6
591-78-6	2-Hexanone	10	U	10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	4.2
67-64-1	Acetone	8.0	J	20	6.0
71-43-2	Benzene	98		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	59		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.72
110-82-7	Cyclohexane	2.0	U	2.0	0.36
124-48-1	Dibromochloromethane	2.0	U	2.0	0.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-29S</u>	Lab Sample ID: <u>480-110191-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0311.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 13:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 13:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334565</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	5.0	U	5.0	2.6
1634-04-4	Methyl tert-butyl ether	2.0	U	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
100-42-5	Styrene	2.0	U	2.0	1.5
127-18-4	Tetrachloroethene	2.0	U	2.0	0.72
108-88-3	Toluene	1.5	J	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
79-01-6	Trichloroethene	2.0	U	2.0	0.92
75-69-4	Trichlorofluoromethane	2.0	U	2.0	1.8
75-01-4	Vinyl chloride	2.5		2.0	1.8
1330-20-7	Xylenes, Total	4.0	U	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D
 Lims ID: 480-110191-B-20
 Client ID: 4009-29S
 Sample Type: Client
 Inject. Date: 03-Dec-2016 13:03:30 ALS Bottle#: 66 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-110191-b-20
 Misc. Info.: 480-0058850-010
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Dec-2016 08:38:40 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: archern

Date: 05-Dec-2016 08:38:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	78090	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	158100	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	95	158846	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.017	-0.006	57	94084	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60012	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	389423	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.853	0.007	94	123435	23.6	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62	1.604	1.604	0.000	21	3918	1.26	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.024				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96	2.815	2.809	0.006	45	4781	1.59	
23 Acetone	43	2.924	2.912	0.012	65	5230	3.99	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.551				ND	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	95	150712	25.0	
45 cis-1,2-Dichloroethene	96	4.542	4.542	0.000	68	109371	29.5	
43 2-Butanone (MEK)	43		4.579				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97	4.980	4.981	0.000	84	46728	11.6	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.333	5.333	0.000	97	680573	49.2	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92	7.195	7.189	0.006	54	6921	0.7671	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.255				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.743				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Worklist Smp#: 10

Client ID: 4009-29S

Purge Vol: 5.000 mL

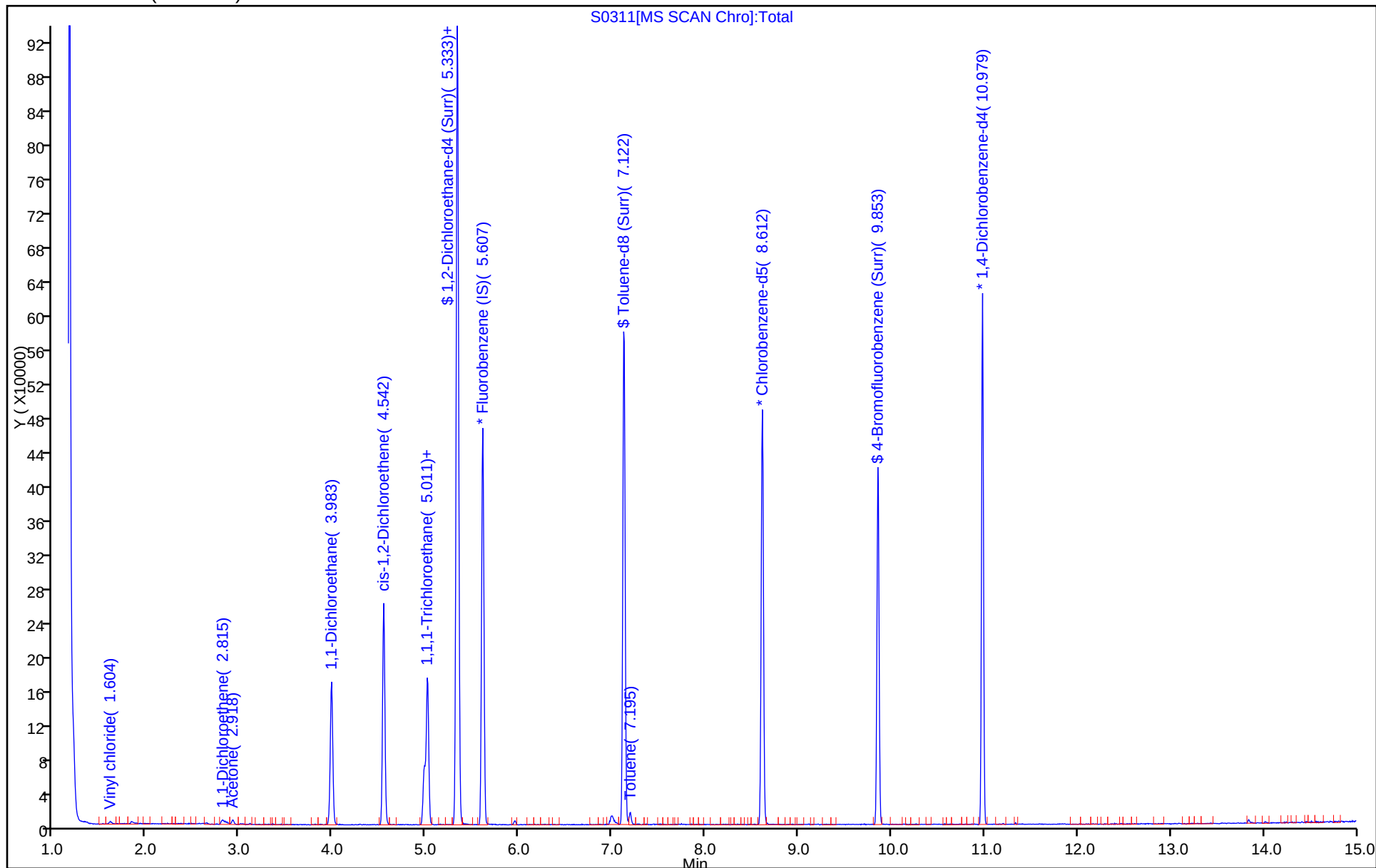
Dil. Factor: 2.0000

ALS Bottle#: 66

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Client ID: 4009-29S

Operator ID: GTG

ALS Bottle#: 66

Worklist Smp#: 10

Purge Vol: 5.000 mL

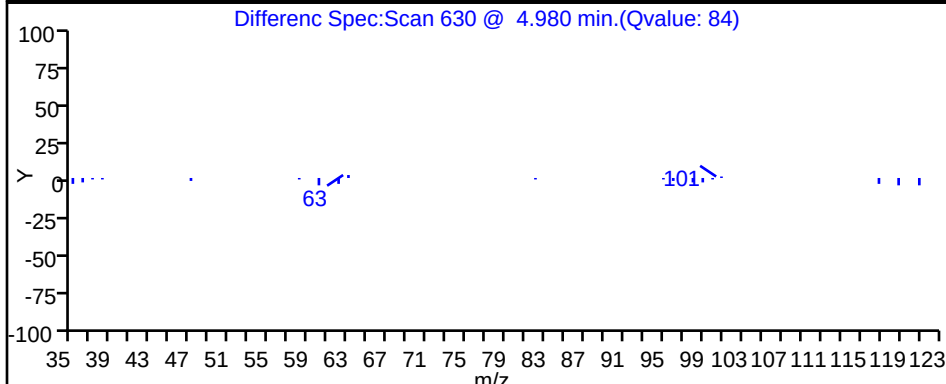
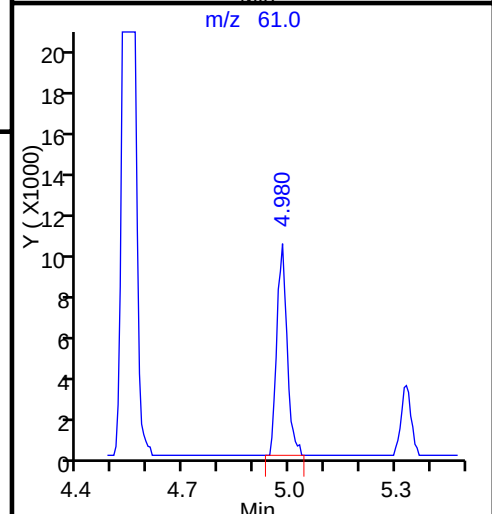
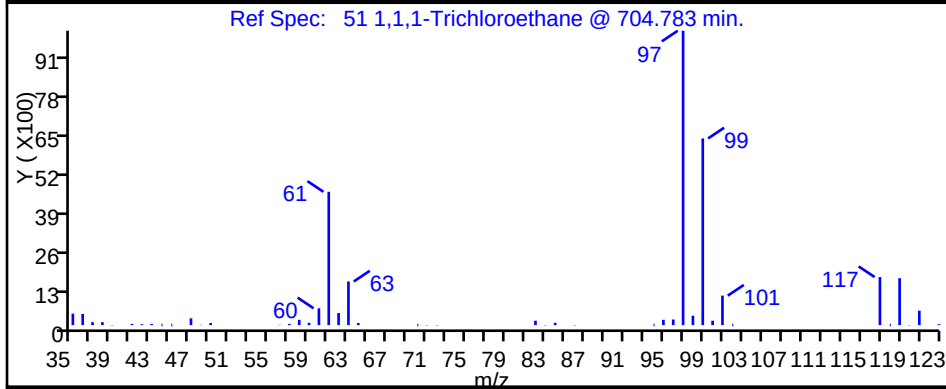
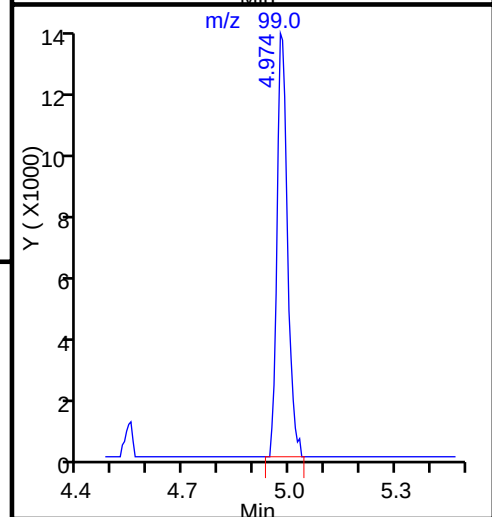
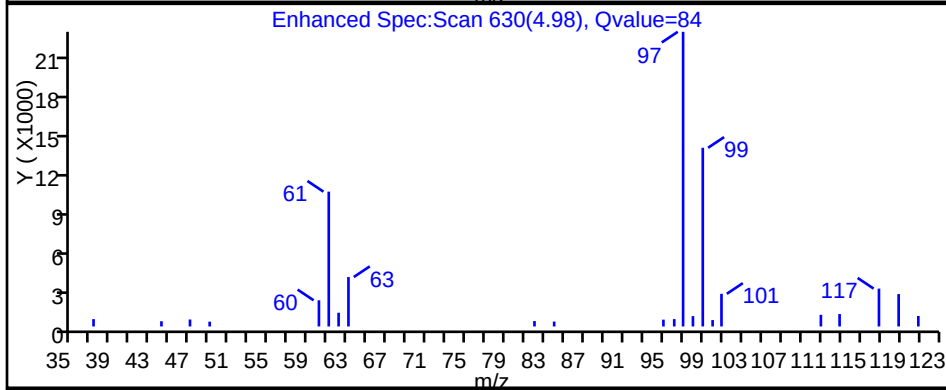
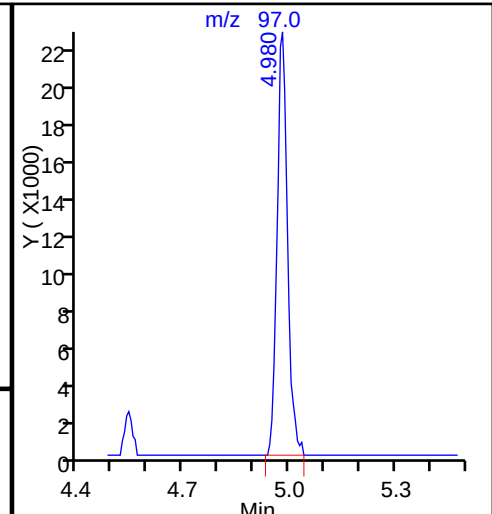
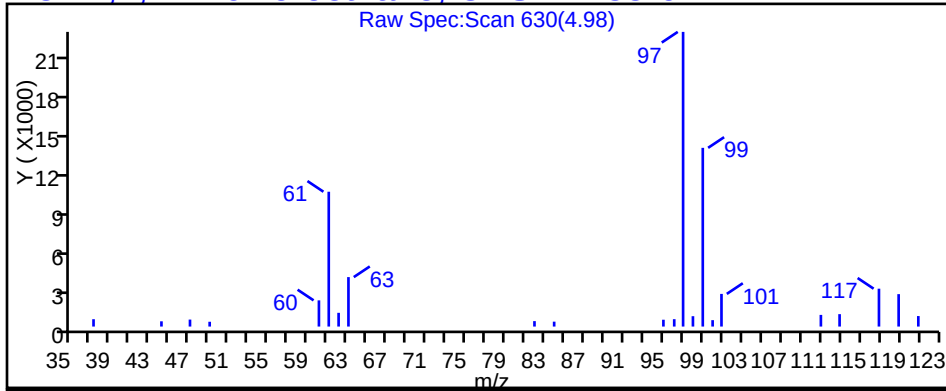
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Client ID: 4009-29S

Operator ID: GTG

ALS Bottle#: 66

Worklist Smp#: 10

Purge Vol: 5.000 mL

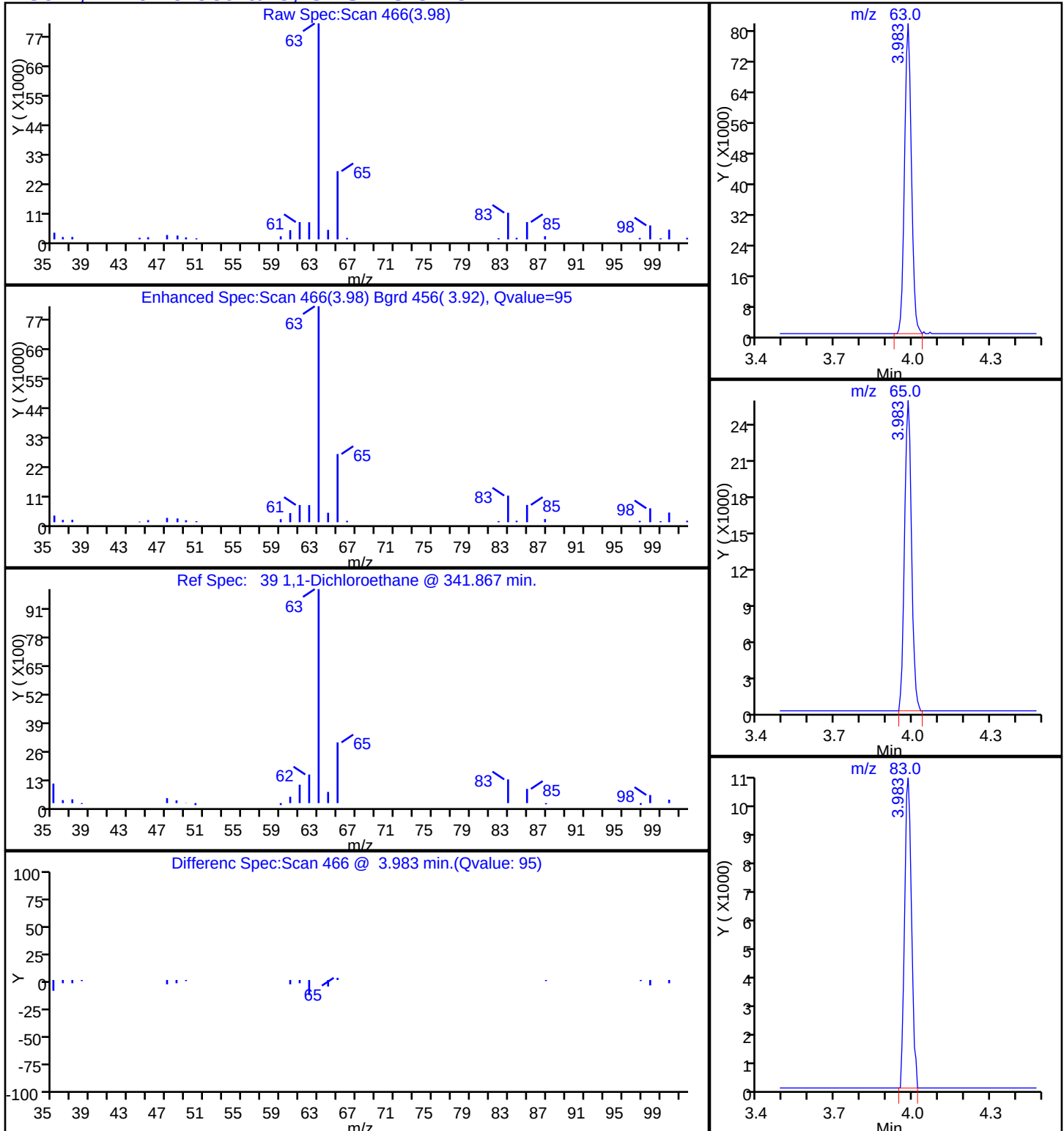
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Client ID: 4009-29S

Operator ID: GTG

ALS Bottle#: 66

Worklist Smp#: 10

Purge Vol: 5.000 mL

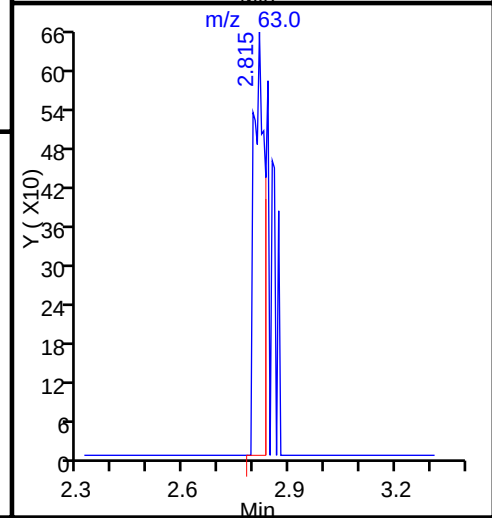
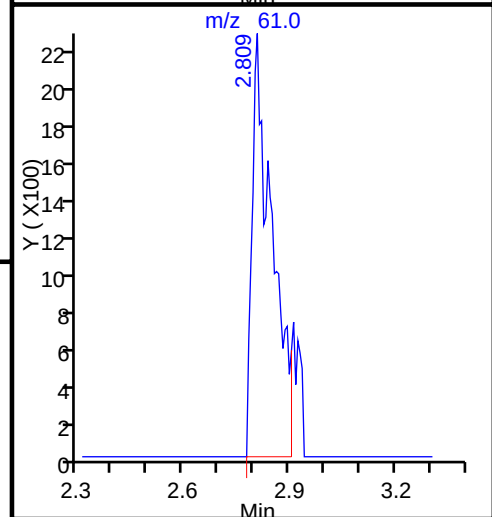
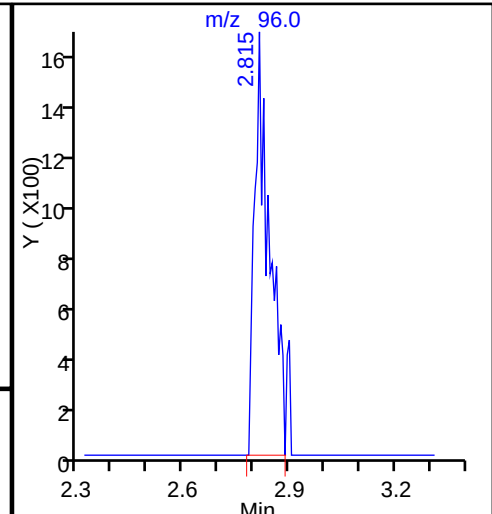
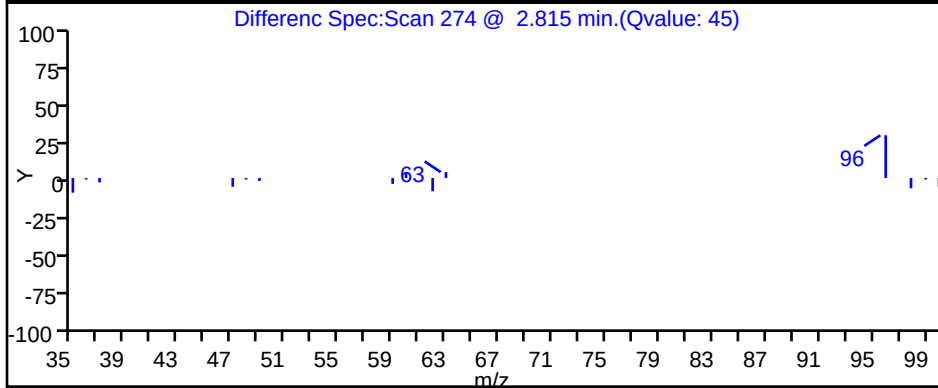
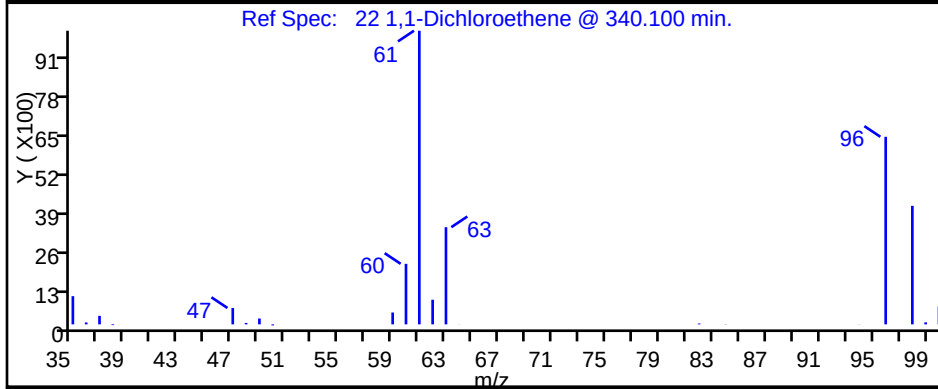
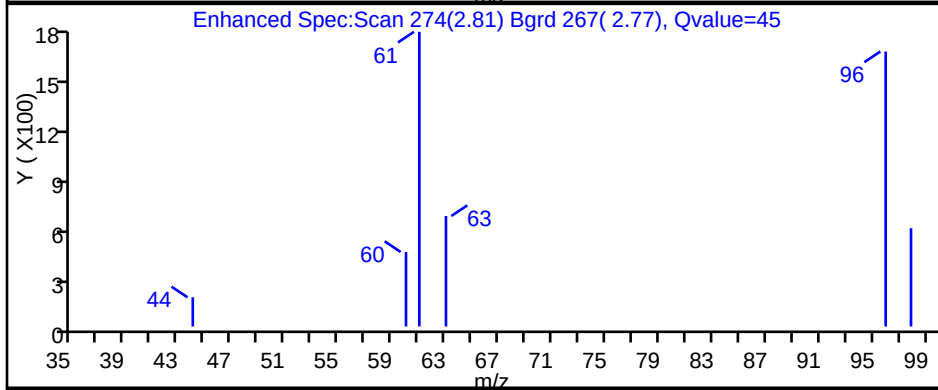
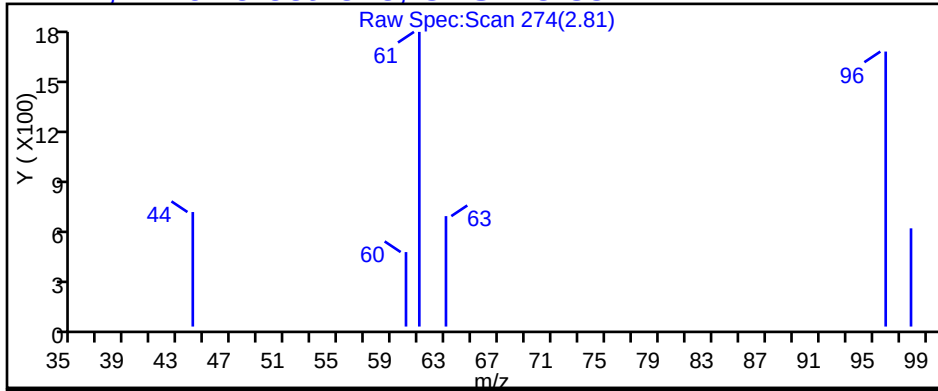
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

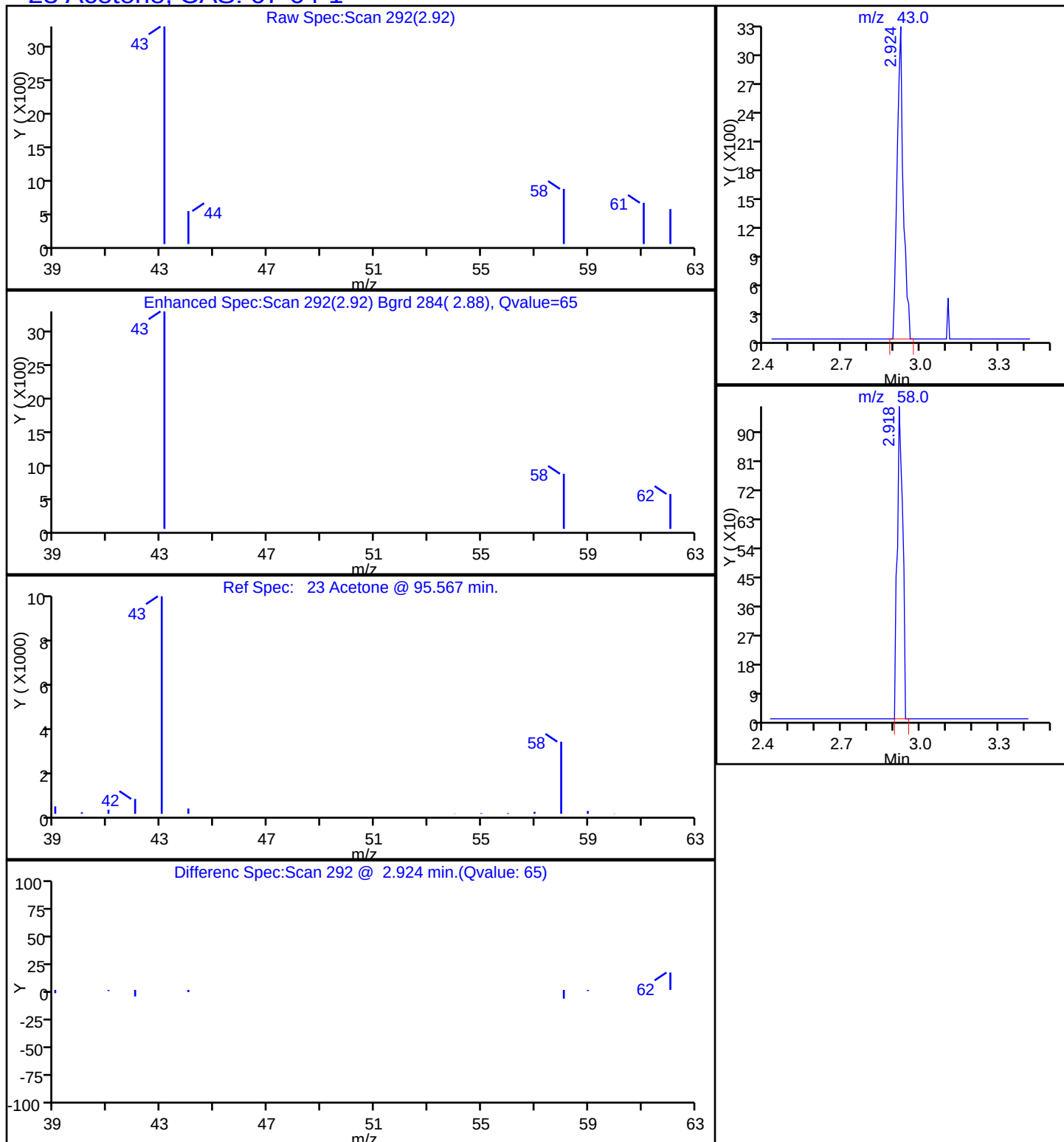
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D
Injection Date: 03-Dec-2016 13:03:30 Instrument ID: HP5973S
Lims ID: 480-110191-B-20 Lab Sample ID: 480-110191-20
Client ID: 4009-29S
Operator ID: GTG ALS Bottle#: 66 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Client ID: 4009-29S

Operator ID: GTG

ALS Bottle#: 66

Worklist Smp#: 10

Purge Vol: 5.000 mL

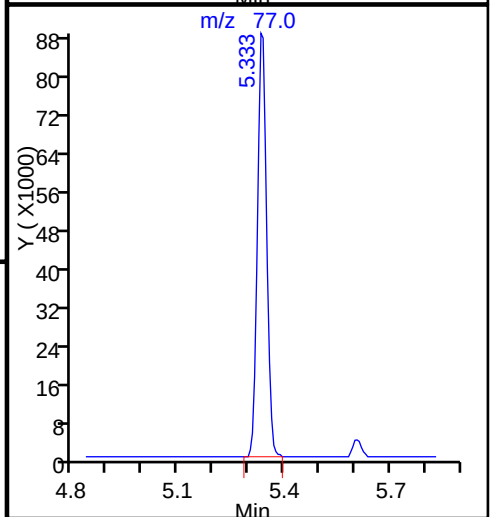
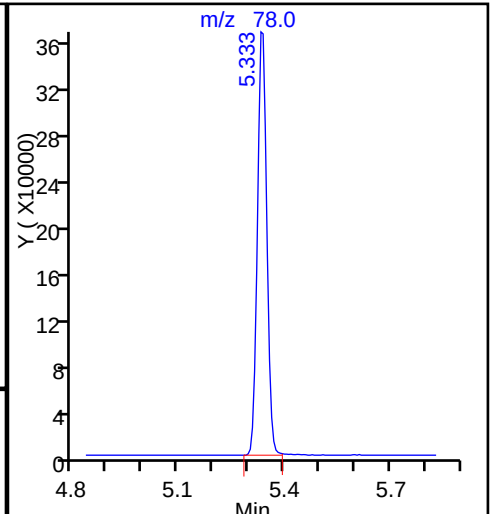
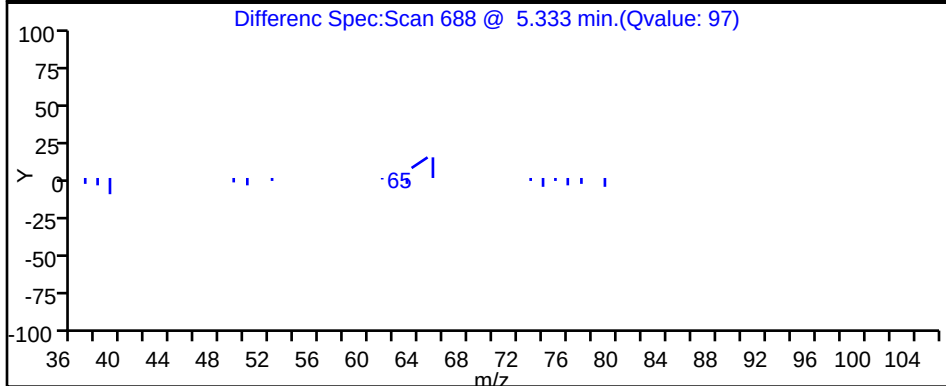
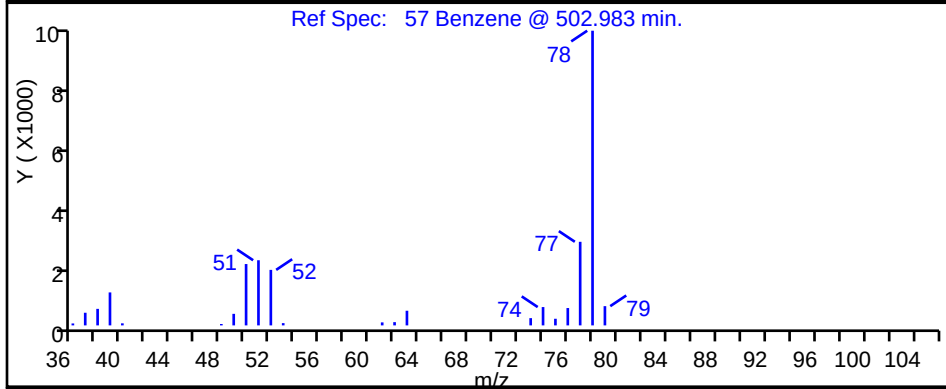
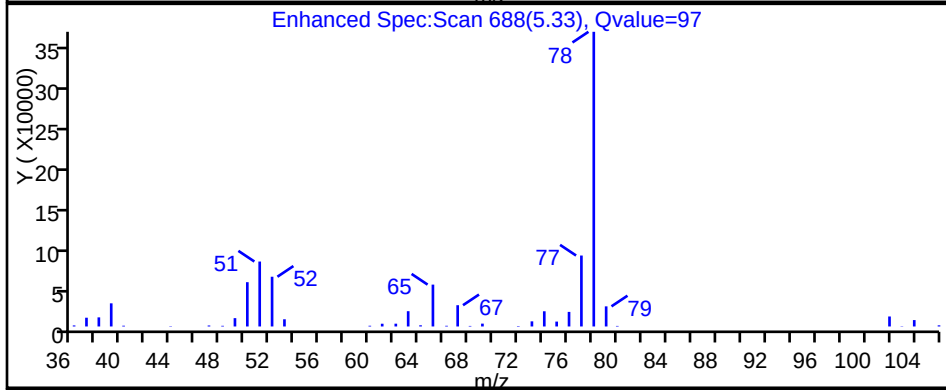
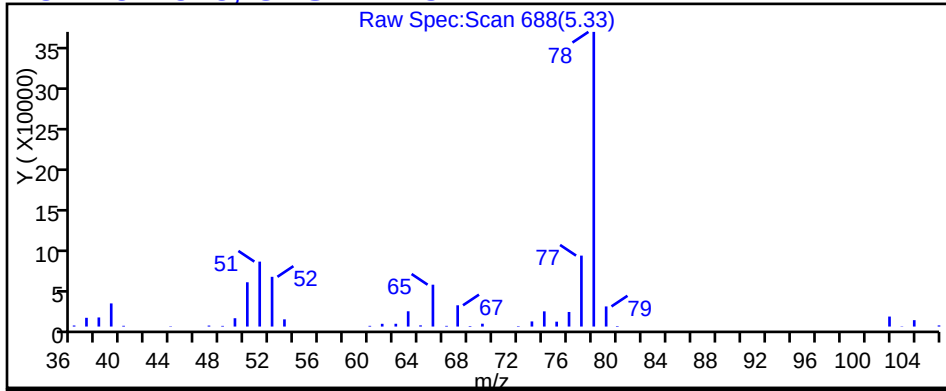
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Client ID: 4009-29S

Operator ID: GTG

ALS Bottle#: 66

Worklist Smp#: 10

Purge Vol: 5.000 mL

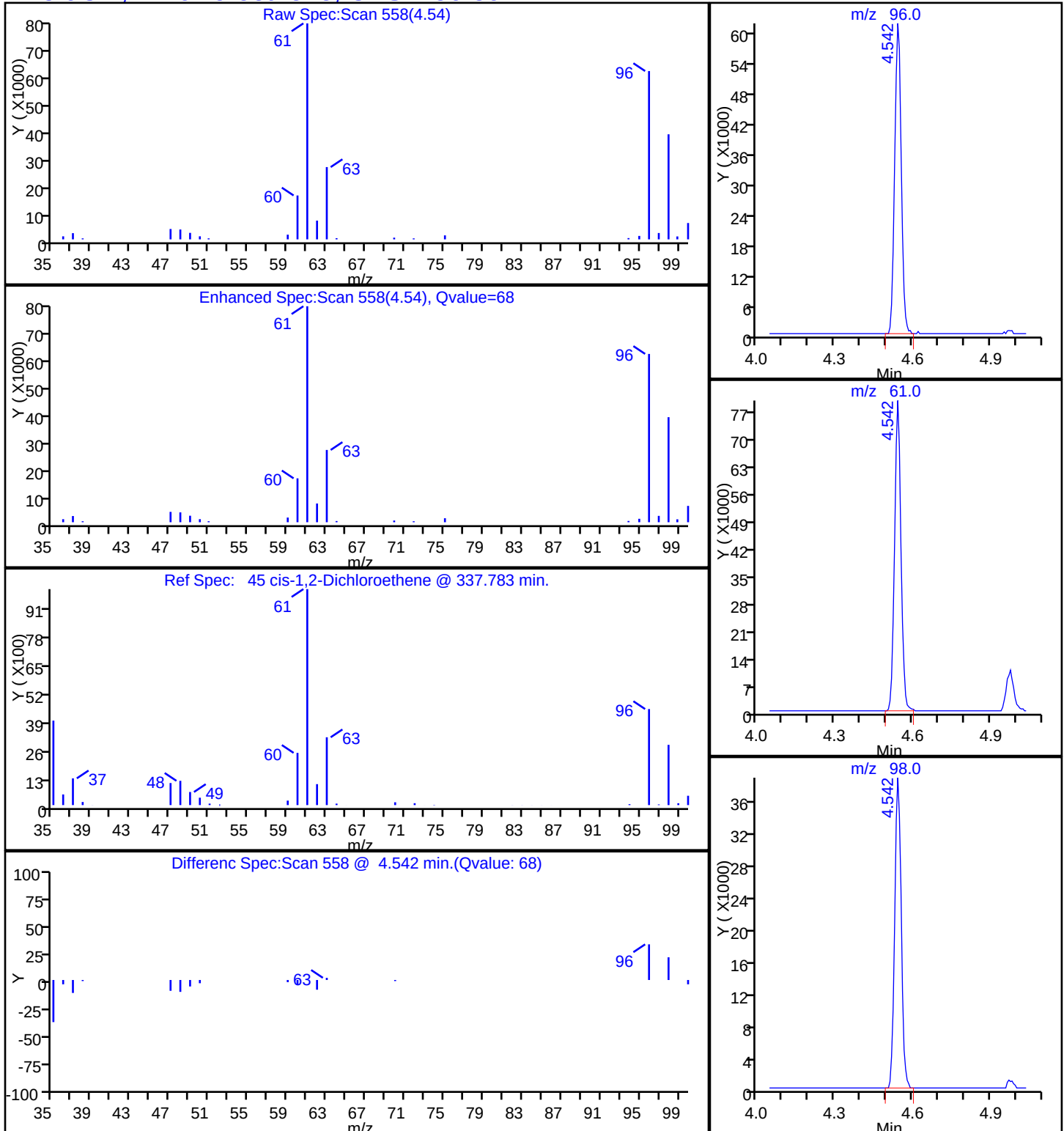
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D

Injection Date: 03-Dec-2016 13:03:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-20

Lab Sample ID: 480-110191-20

Client ID: 4009-29S

Operator ID: GTG

ALS Bottle#: 66

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

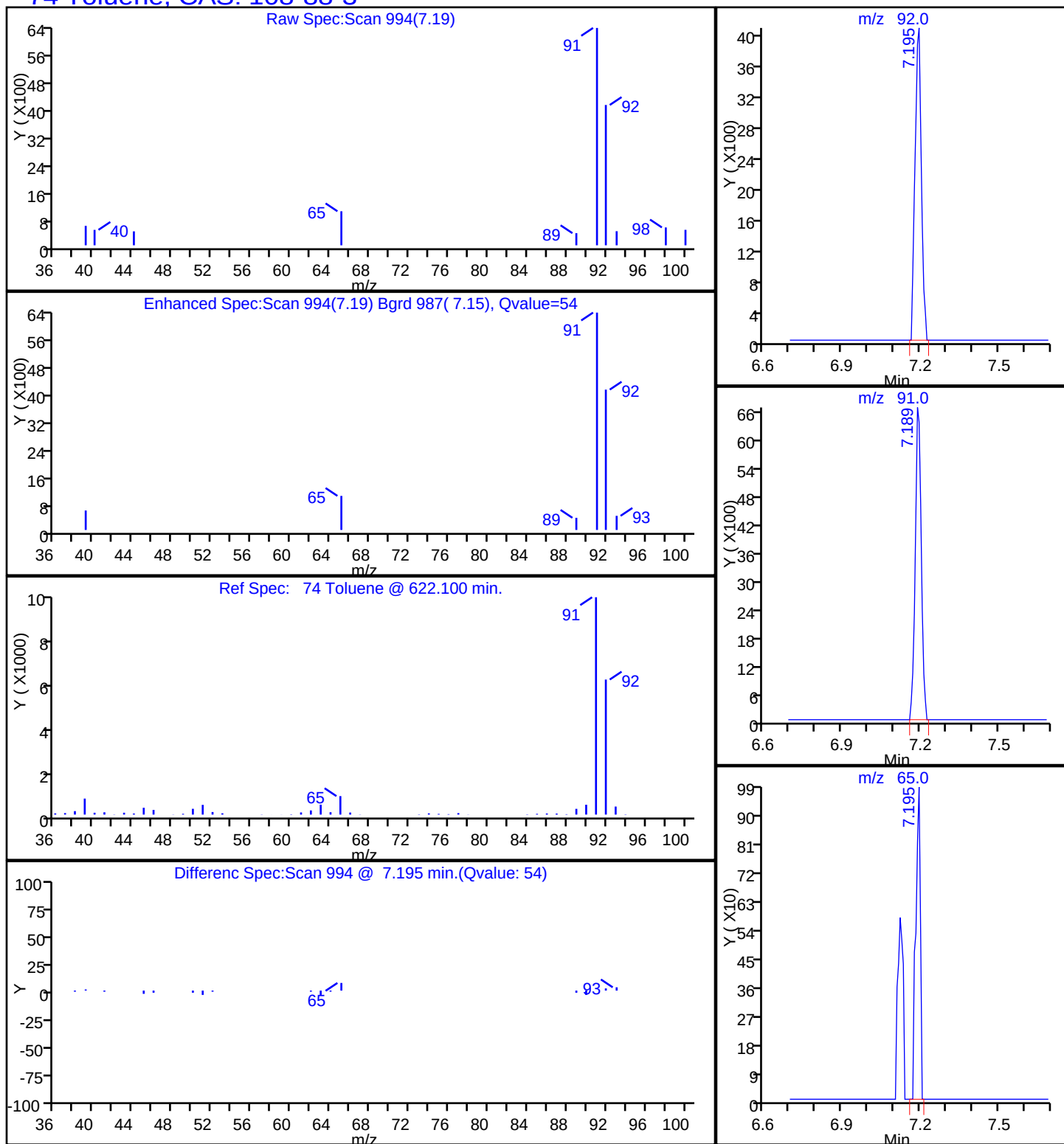
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

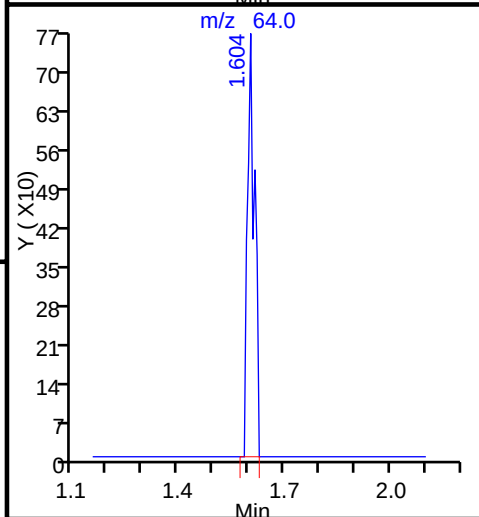
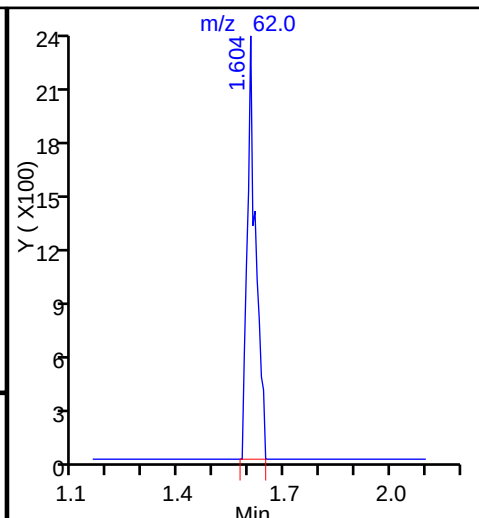
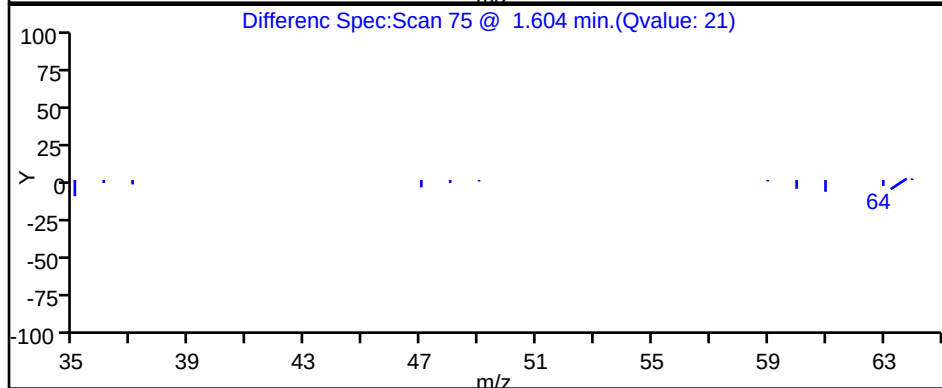
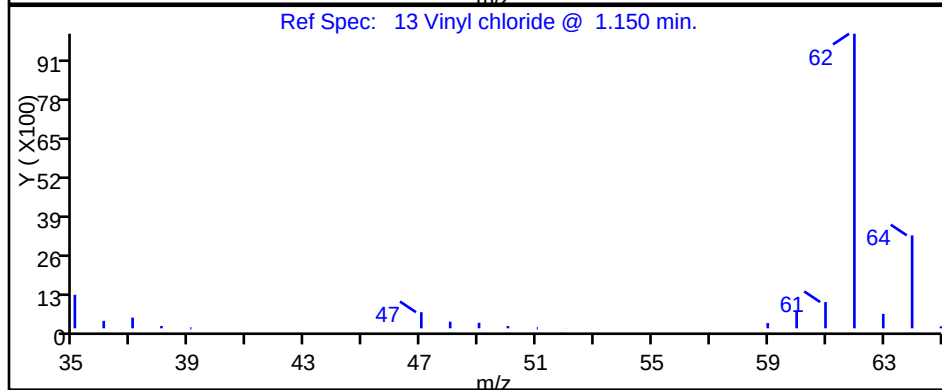
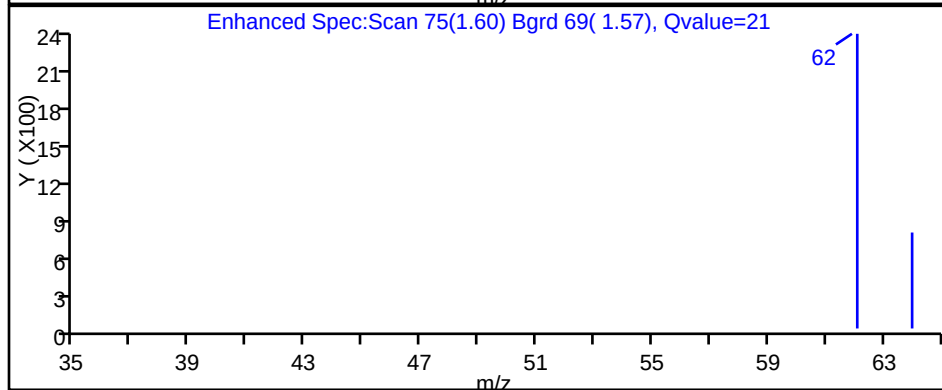
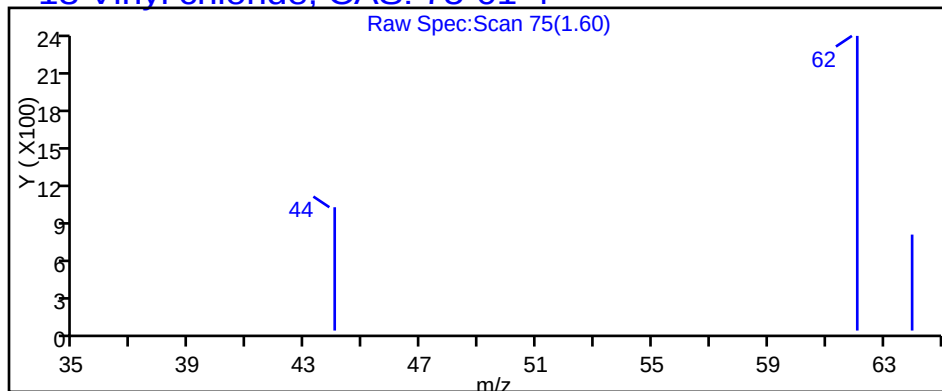
Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0311.D
Injection Date: 03-Dec-2016 13:03:30 Instrument ID: HP5973S
Lims ID: 480-110191-B-20 Lab Sample ID: 480-110191-20
Client ID: 4009-29S
Operator ID: GTG ALS Bottle#: 66 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-29I</u>	Lab Sample ID: <u>480-110191-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0286.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 00:42</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	3.9		1.0	0.38
75-35-4	1,1-Dichloroethene	1.1		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	5.0	J	10	3.0
71-43-2	Benzene	110	E	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	28		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	39		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-29I</u>	Lab Sample ID: <u>480-110191-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0286.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 00:42</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.8		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
79-01-6	Trichloroethene	2.1		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.7		1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D
 Lims ID: 480-110191-A-21
 Client ID: 4009-29I
 Sample Type: Client
 Inject. Date: 03-Dec-2016 00:42:30 ALS Bottle#: 41 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-21
 Misc. Info.: 480-0058844-018
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:06:28 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:06:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	79522	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	158545	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	153865	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	56	92203	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59510	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	382289	24.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	120638	23.0	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62	1.604	1.598	0.006	21	5514	1.74	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64	2.036	2.042	-0.006	90	54025	27.5	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96	2.815	2.803	0.012	50	3460	1.13	
23 Acetone	43	2.912	2.912	0.000	71	6669	4.99	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	58	23765	3.87	
45 cis-1,2-Dichloroethene	96	4.542	4.536	0.006	68	145888	38.6	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78	5.333	5.333	0.000	97	1592483	113.0	E
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.954	5.948	0.006	70	7482	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92	7.189	7.189	0.000	79	16136	1.78	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Worklist Smp#: 18

Client ID: 4009-29I

Purge Vol: 5.000 mL

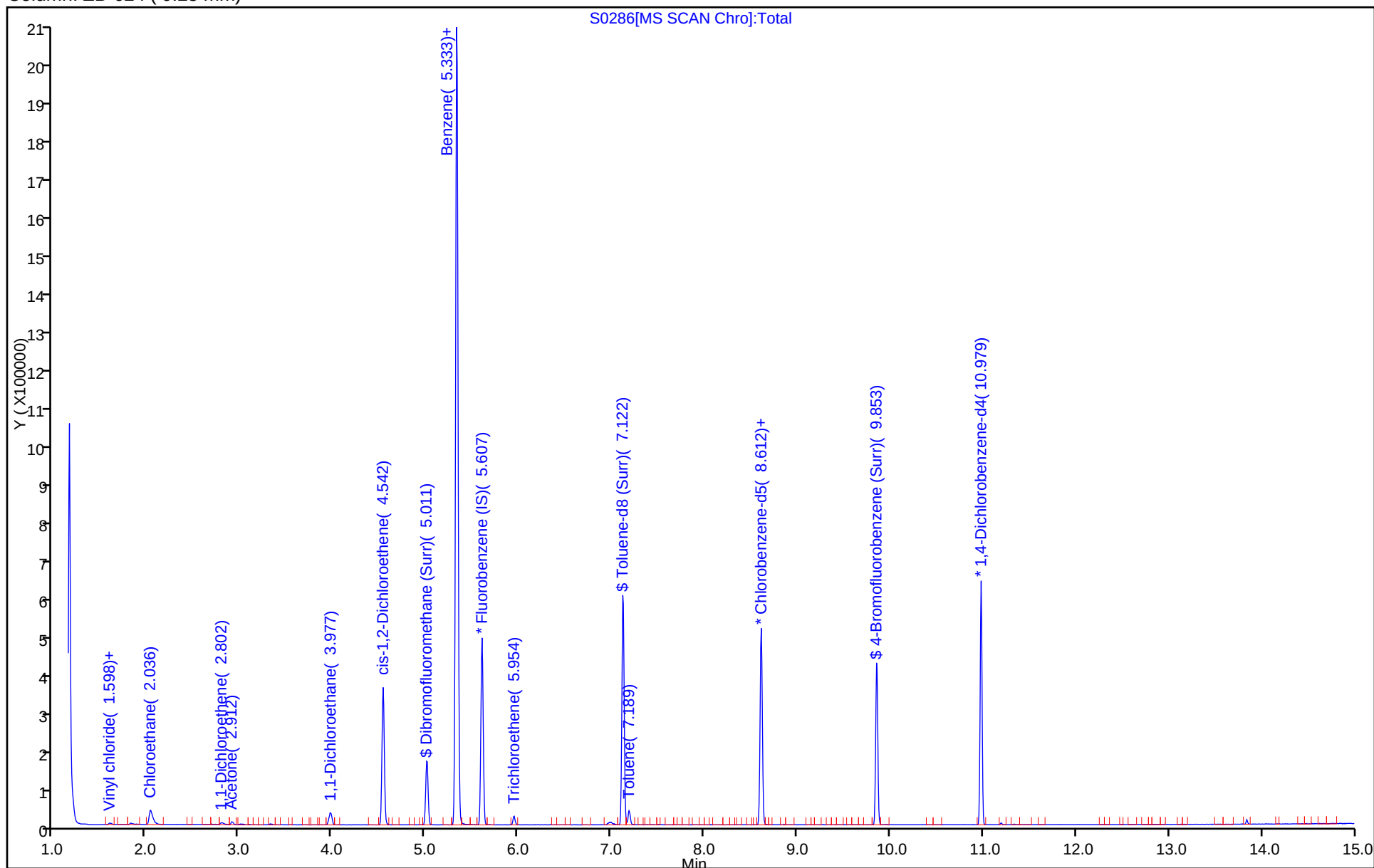
Dil. Factor: 1.0000

ALS Bottle#: 41

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-29I

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

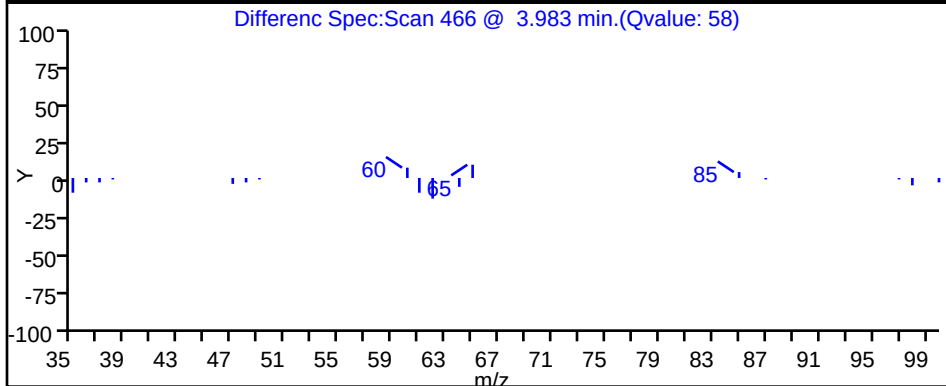
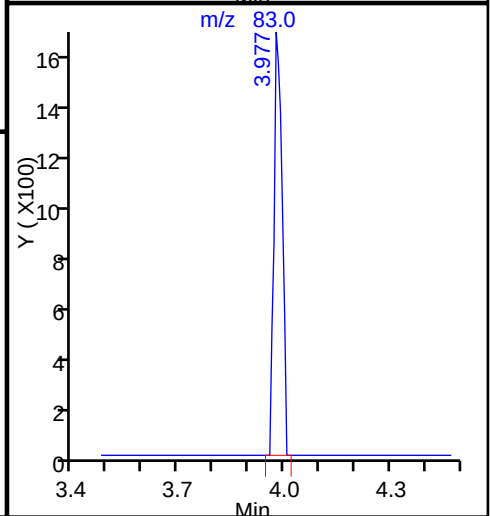
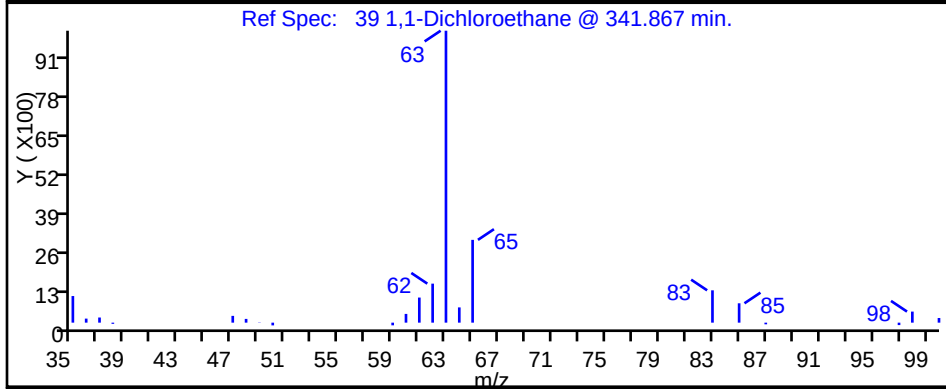
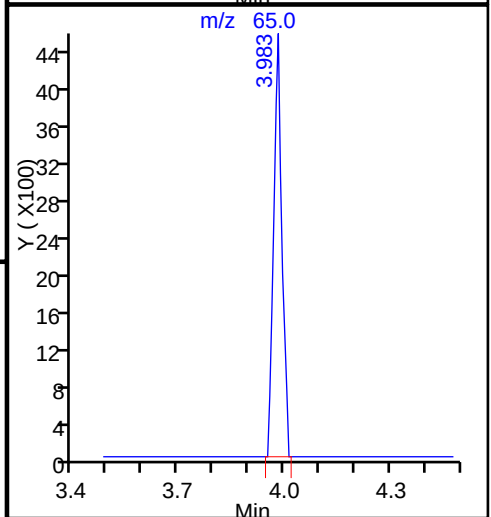
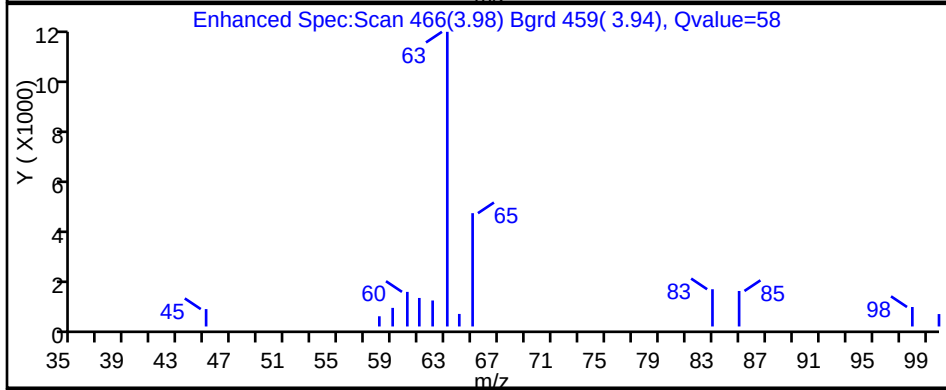
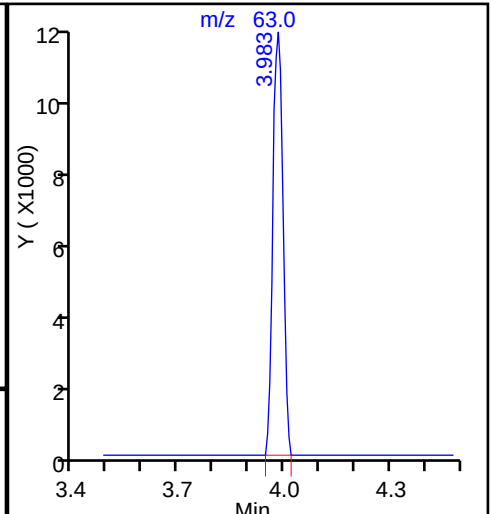
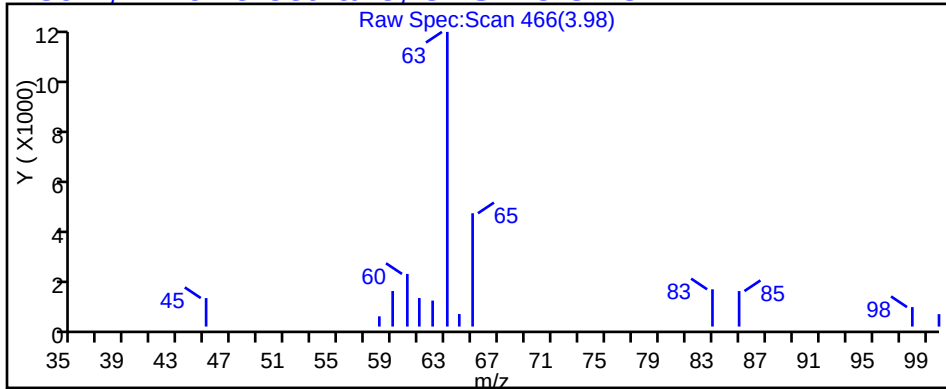
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

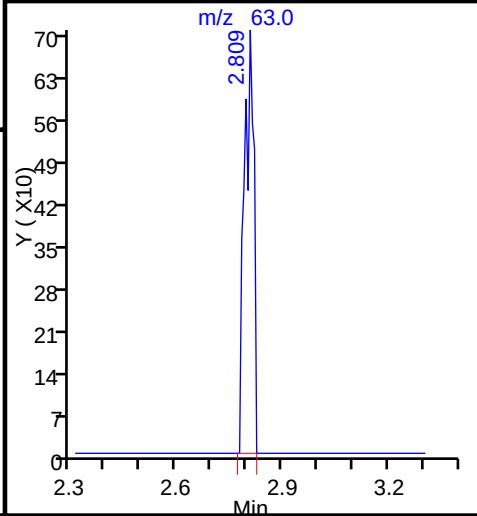
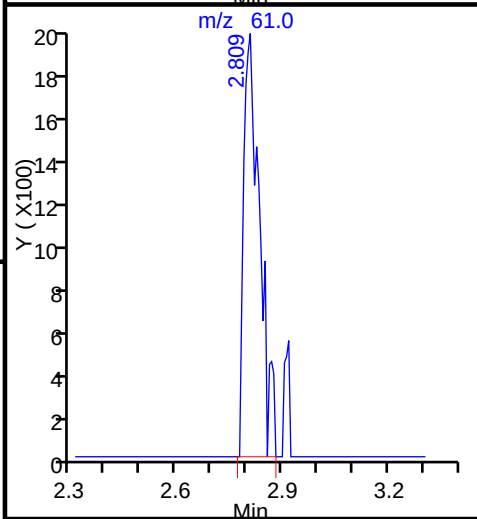
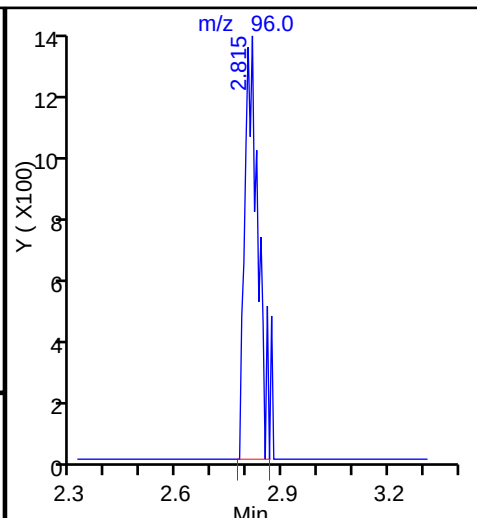
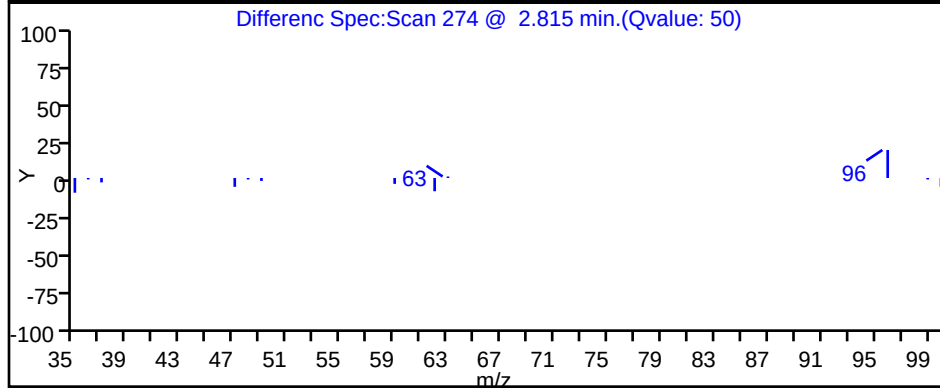
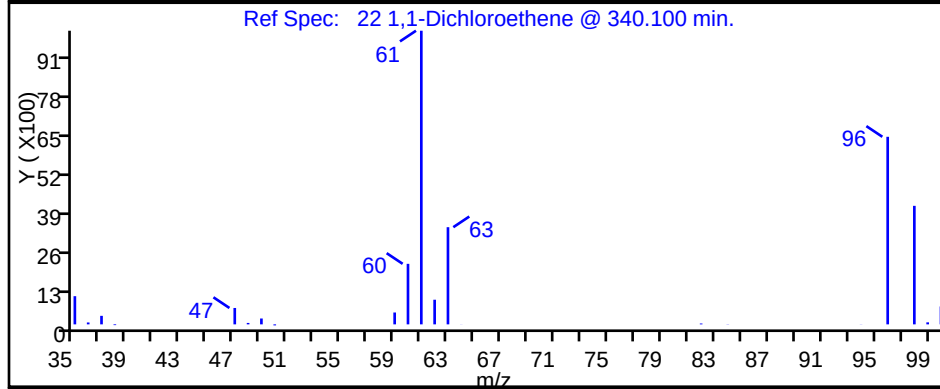
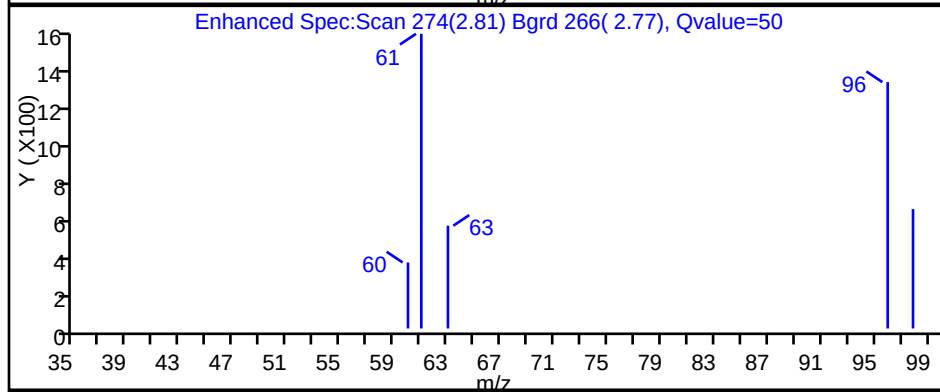
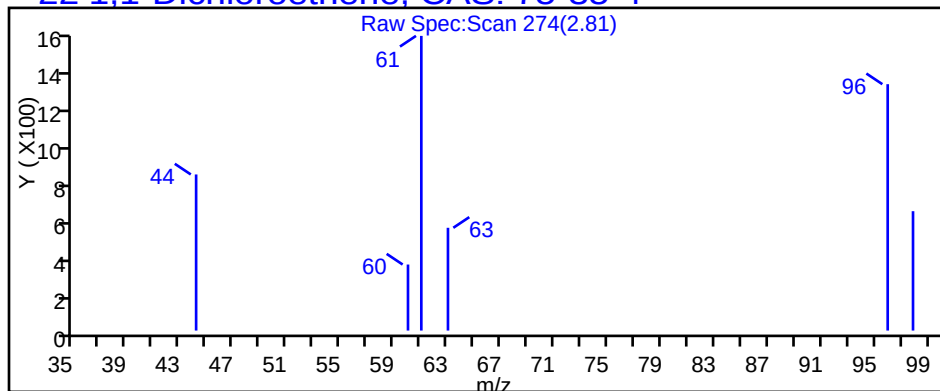
Method: S-8260

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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

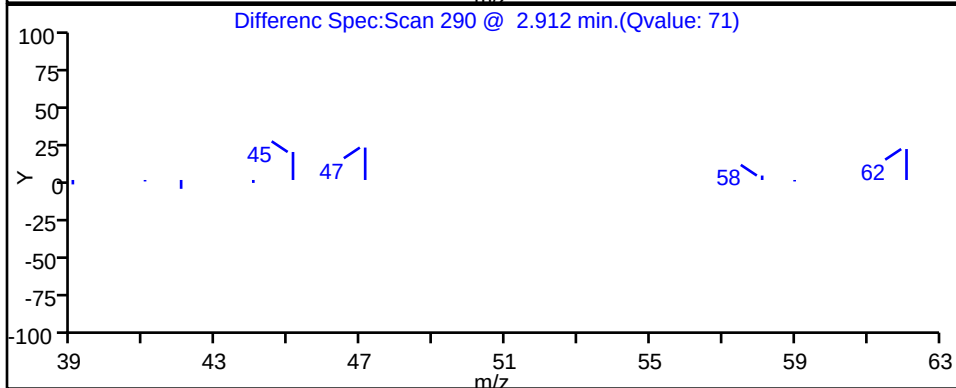
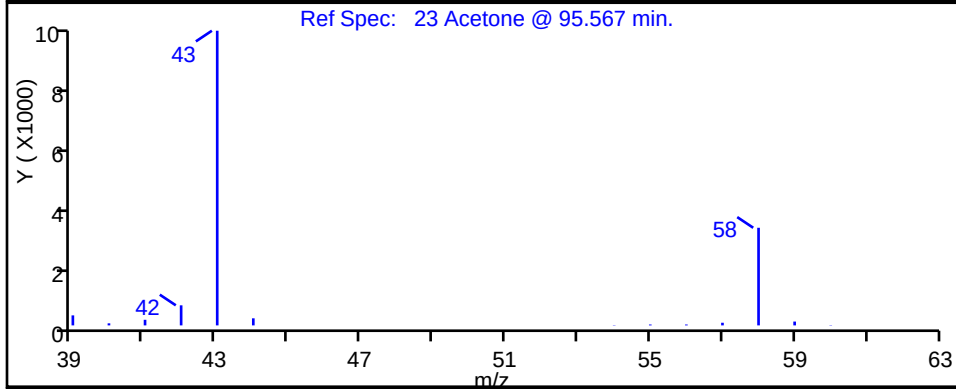
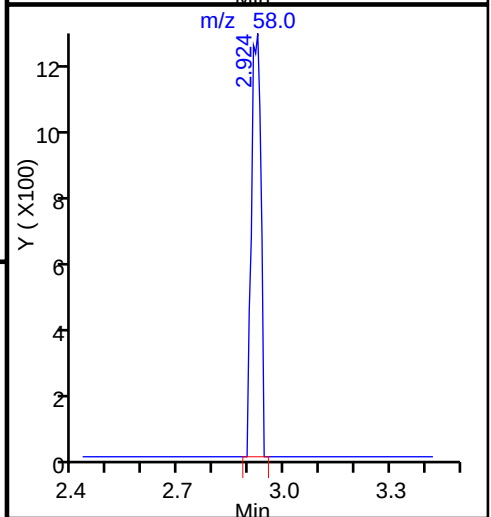
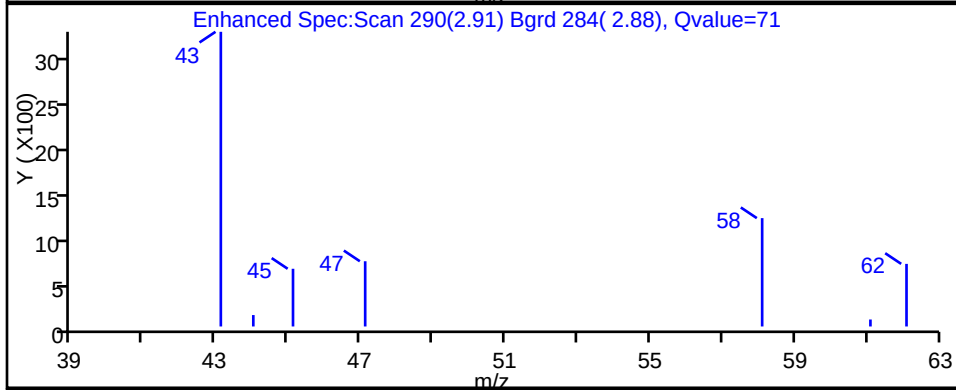
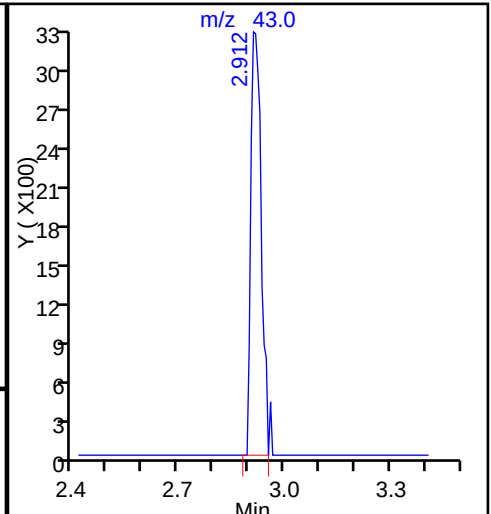
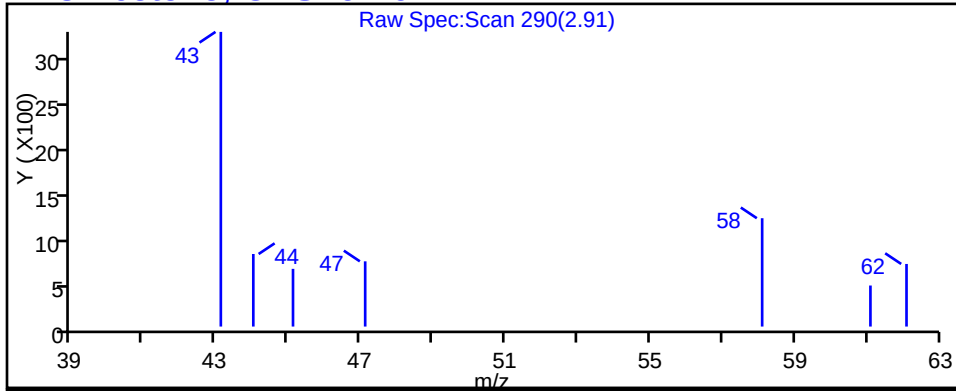
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 41 Worklist Smp#: 18

Purge Vol: 5.000 mL

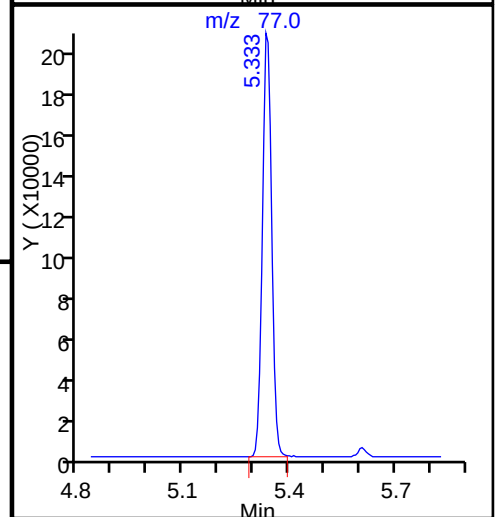
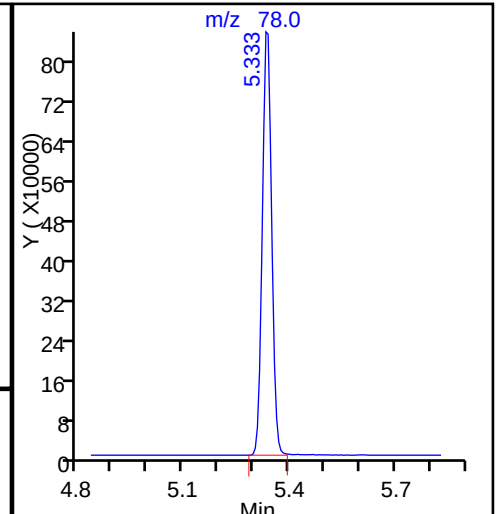
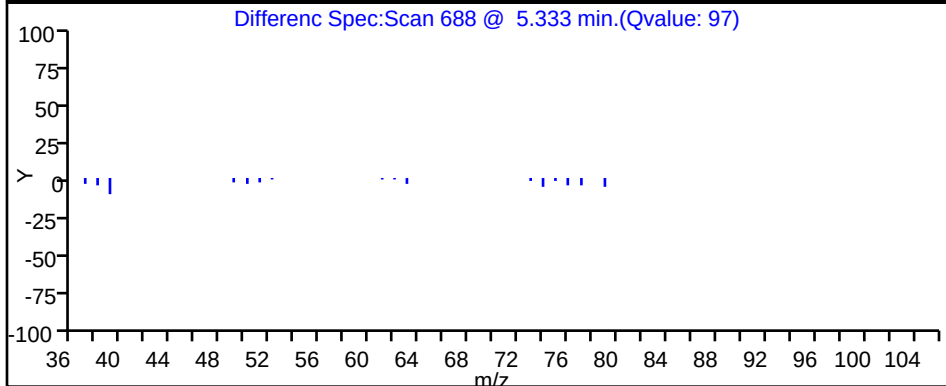
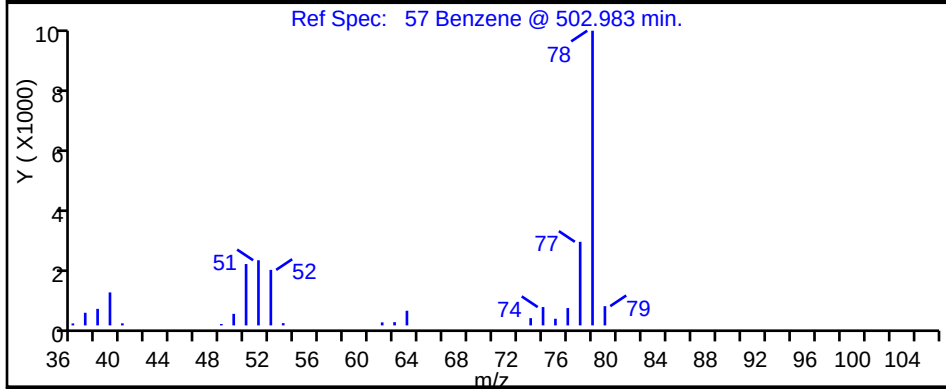
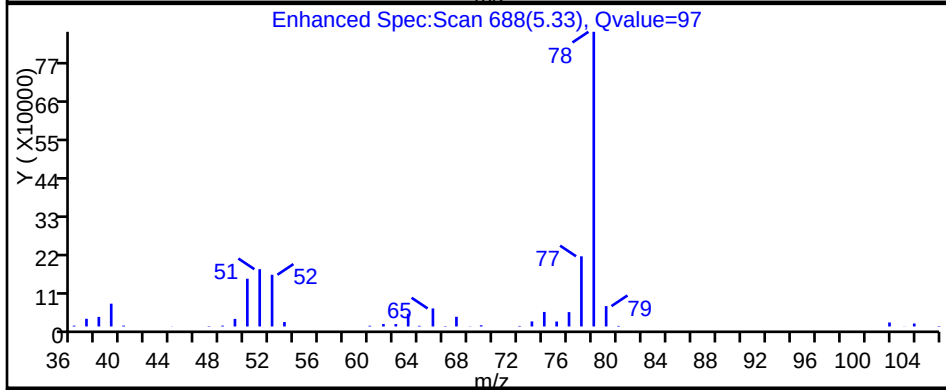
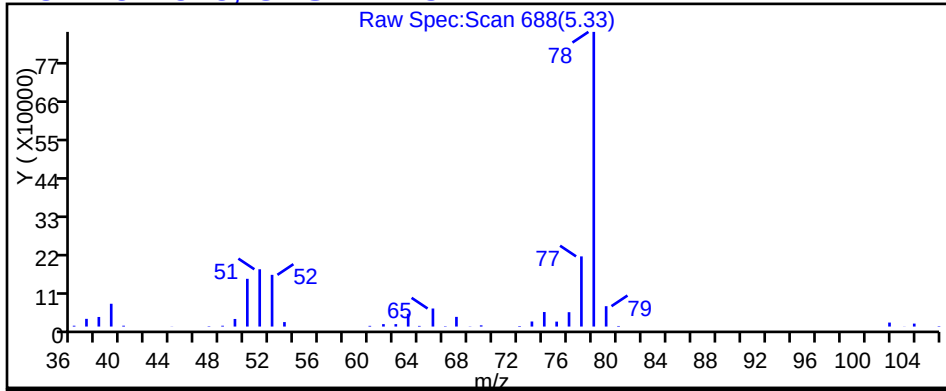
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

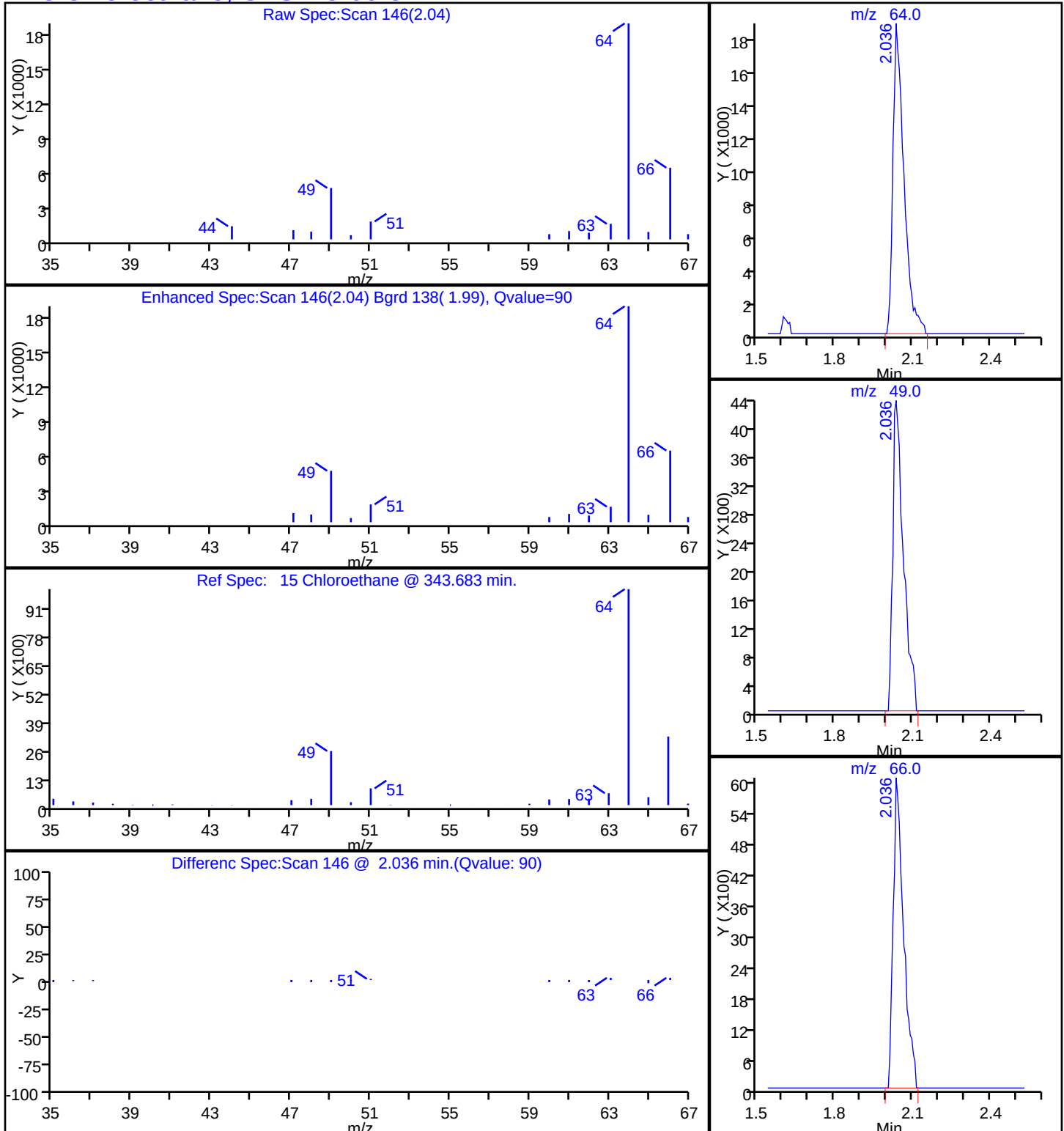
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

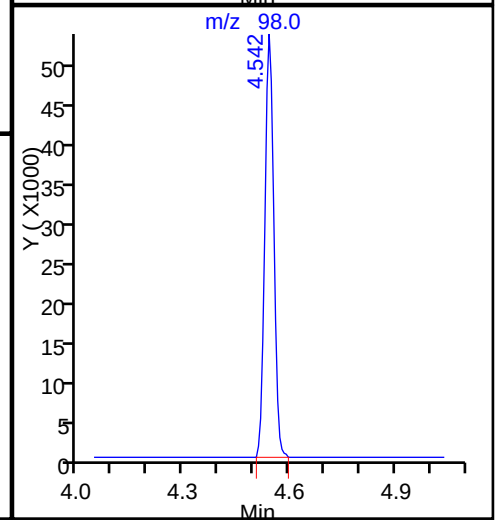
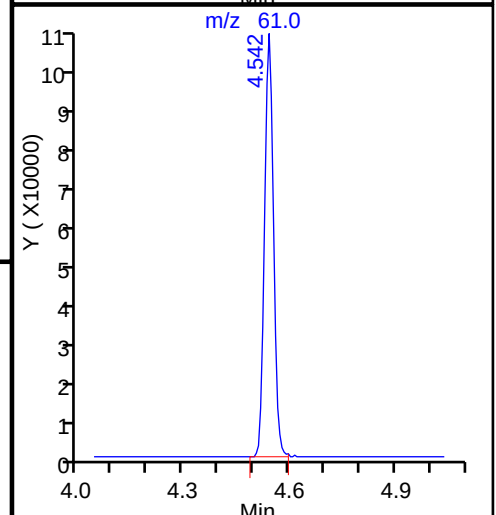
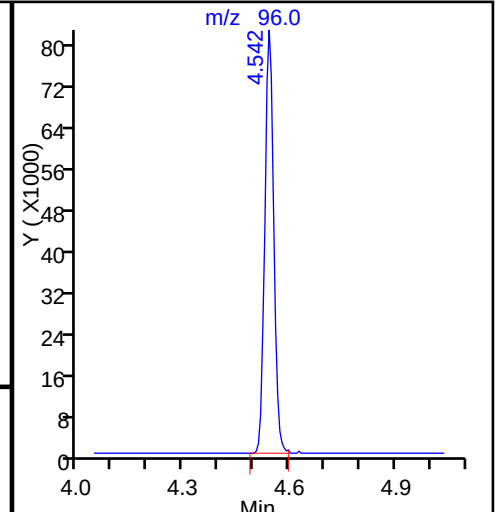
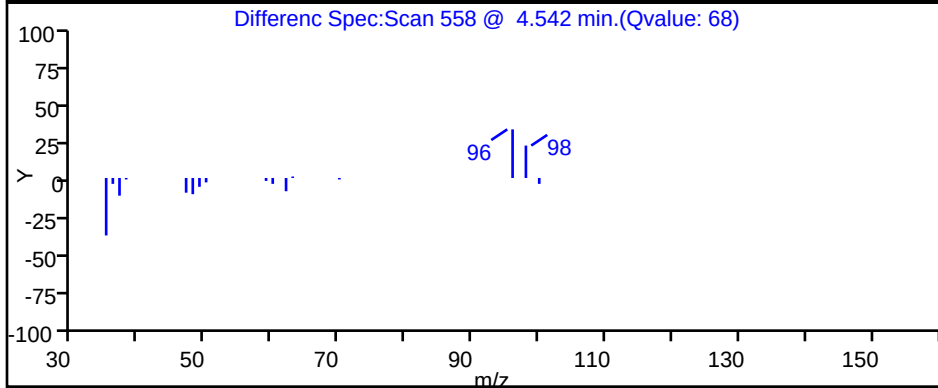
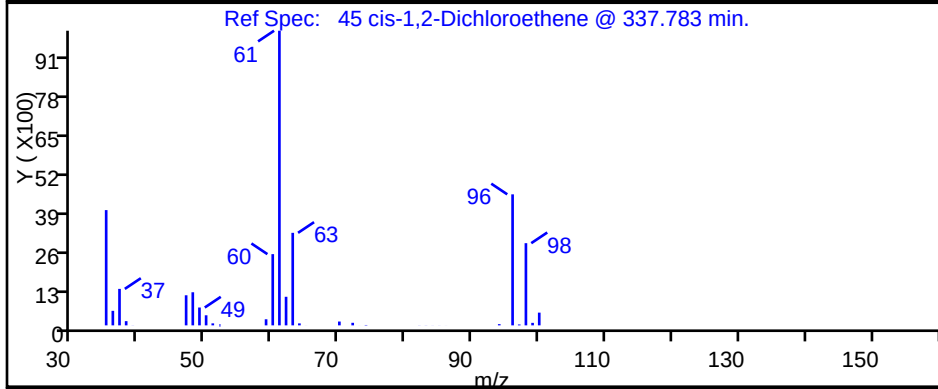
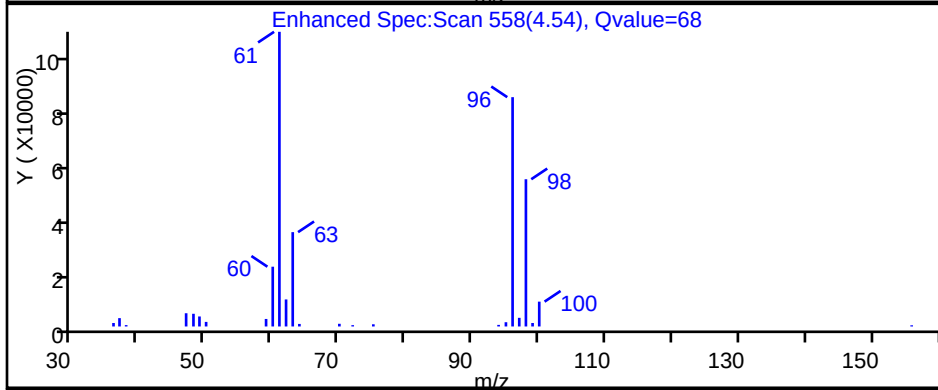
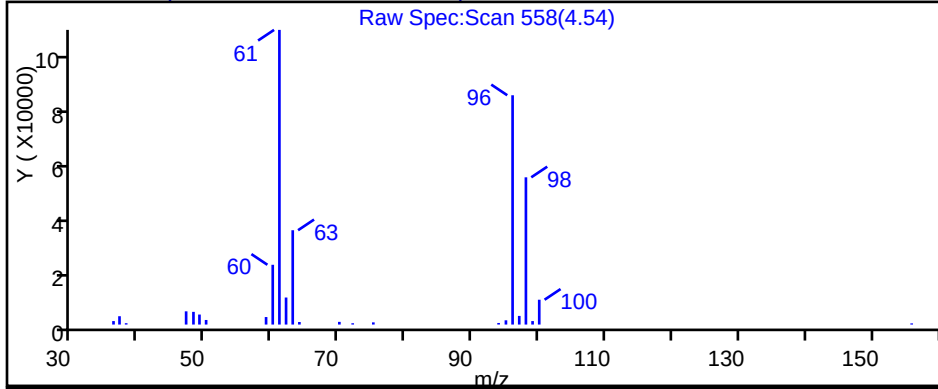
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-29I

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

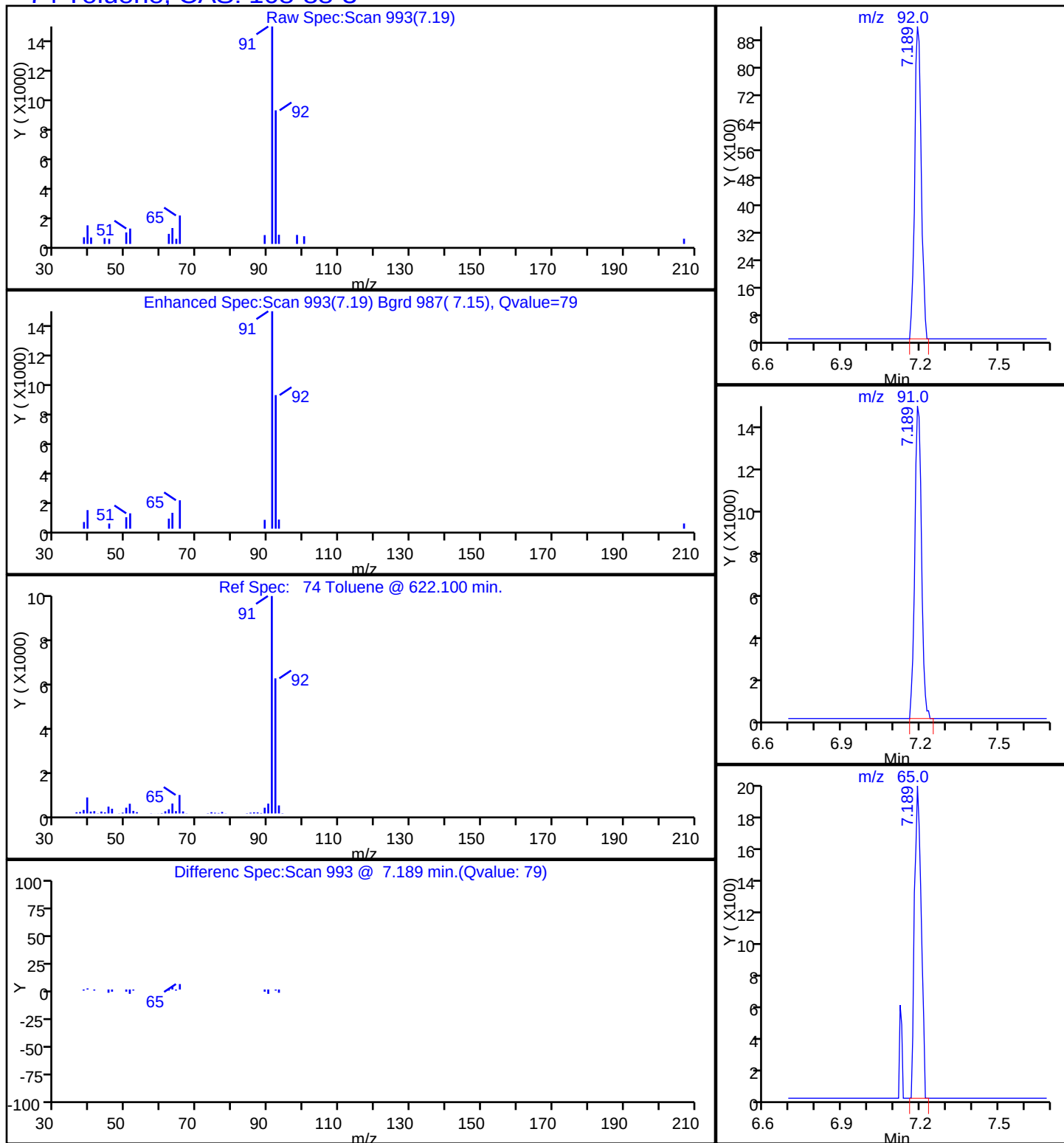
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

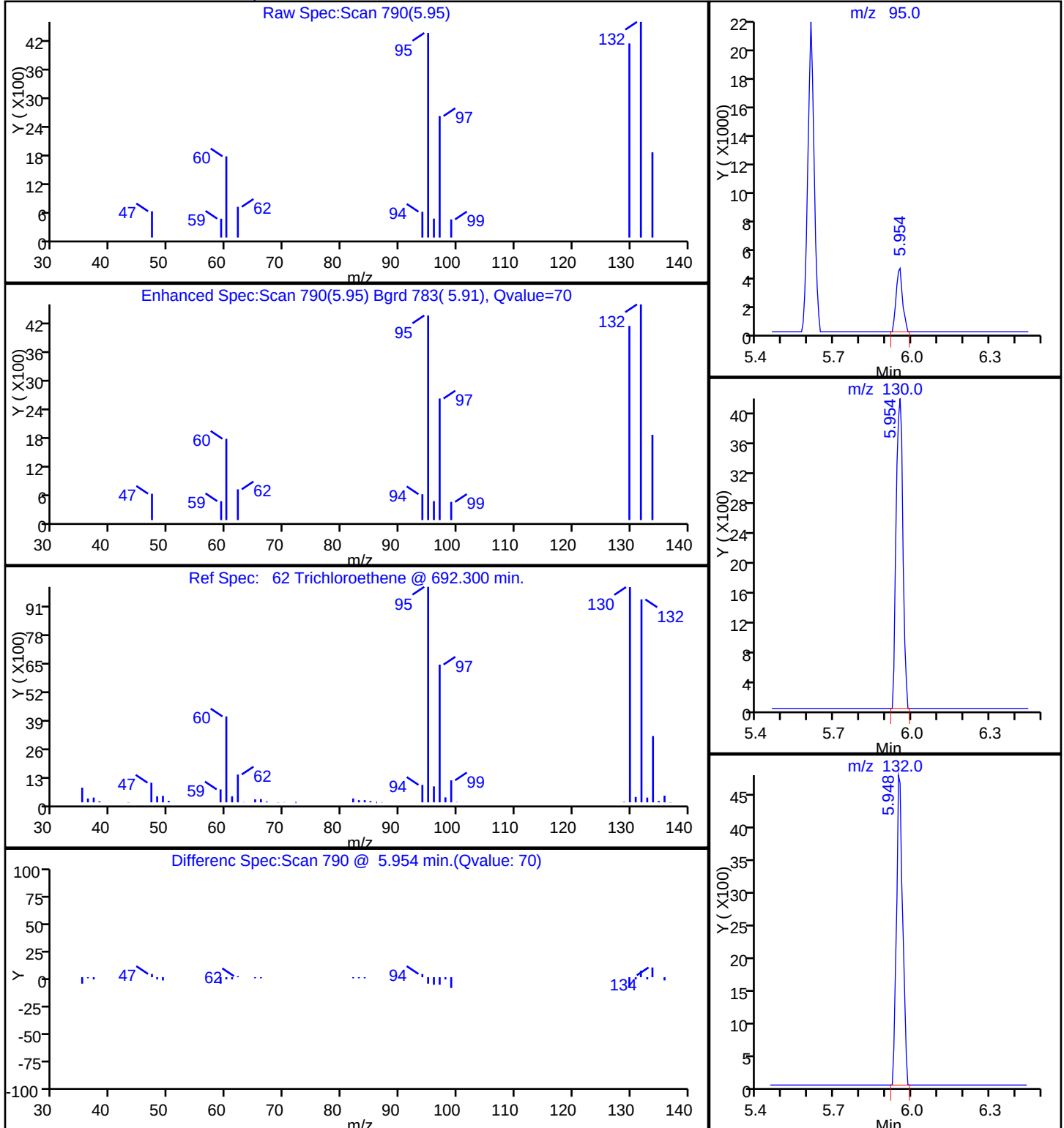
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0286.D

Injection Date: 03-Dec-2016 00:42:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-21

Lab Sample ID: 480-110191-21

Client ID: 4009-29I

Operator ID: SO

ALS Bottle#: 41

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

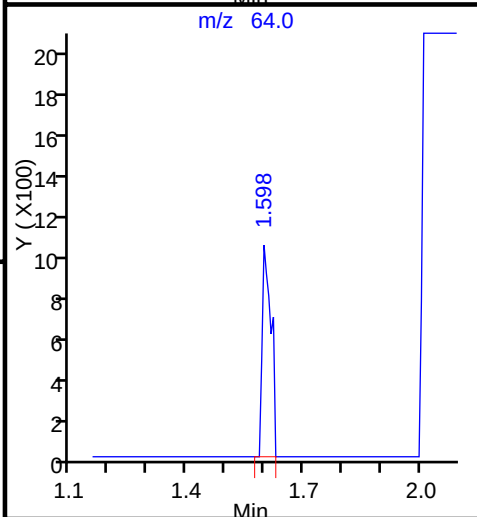
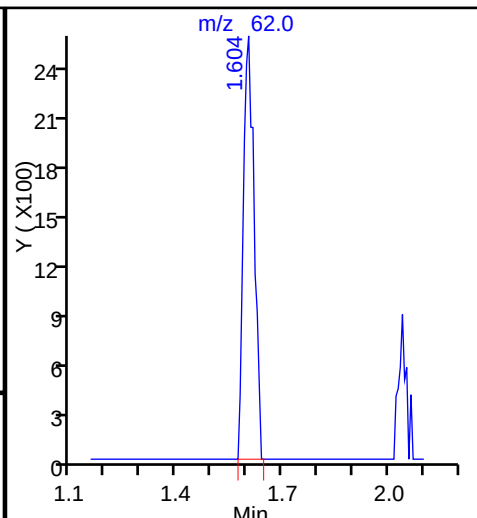
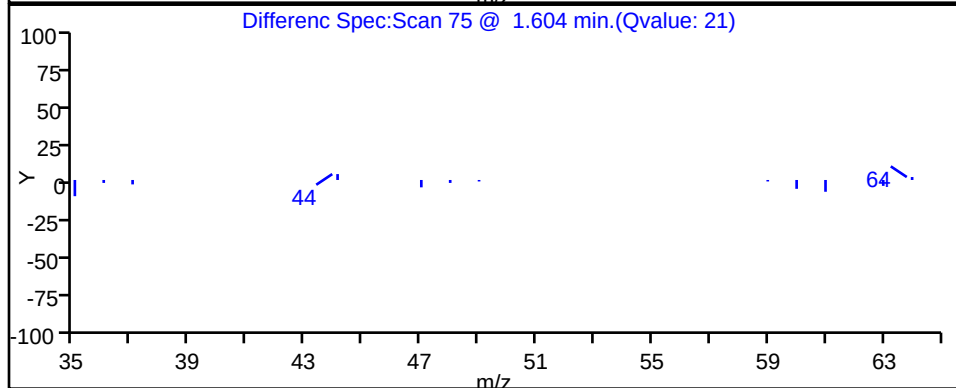
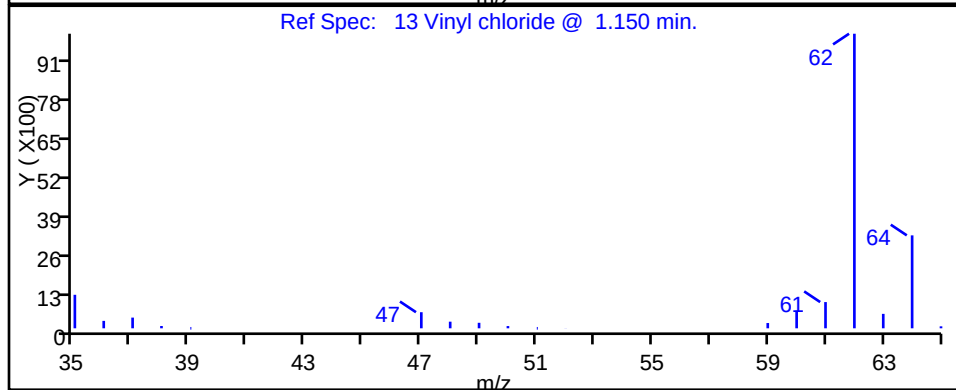
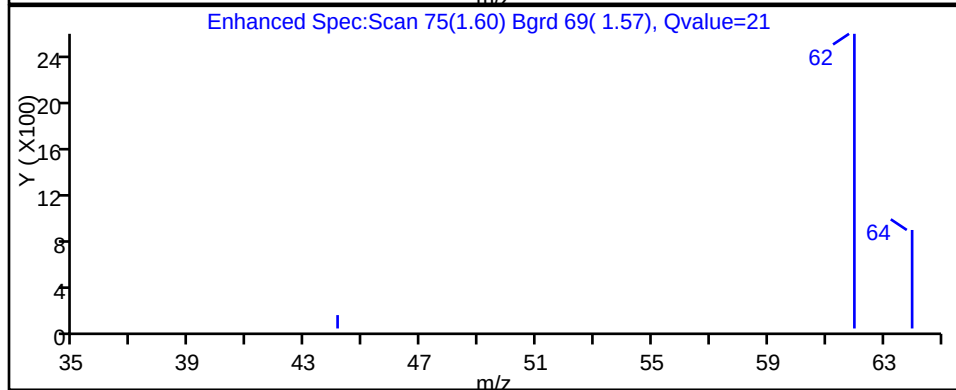
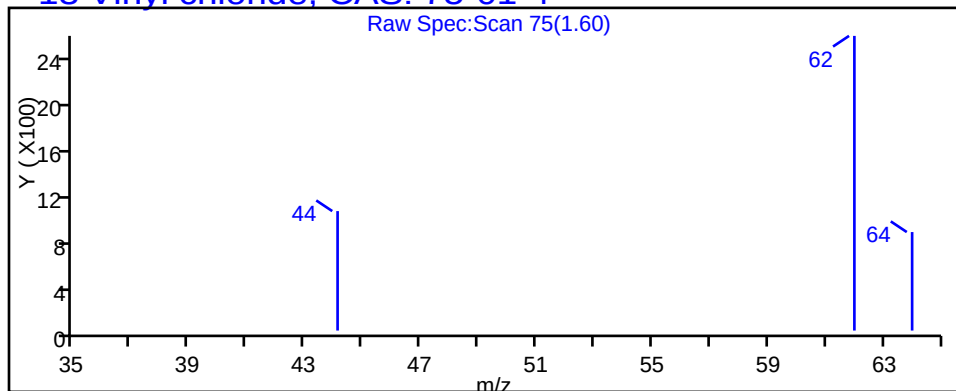
Method: S-8260

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.: 480-110191-1

SDG No.: _____

Client Sample ID: 4009-29I DL Lab Sample ID: 480-110191-21 DL

Matrix: Water Lab File ID: S0312.D

Analysis Method: 8260C Date Collected: 11/28/2016 13:40

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:26

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	3.9		2.0	0.76
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.58
526-73-8	1,2,3-Trimethylbenzene	2.0	U	2.0	0.52
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
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
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0	1.7
78-93-3	2-Butanone (MEK)	20	U	20	2.6
591-78-6	2-Hexanone	10	U	10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	4.2
67-64-1	Acetone	6.1	J	20	6.0
71-43-2	Benzene	120		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	29		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	41		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.72
110-82-7	Cyclohexane	2.0	U	2.0	0.36
124-48-1	Dibromochloromethane	2.0	U	2.0	0.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Client Sample ID: 4009-29I DL Lab Sample ID: 480-110191-21 DL

Matrix: Water Lab File ID: S0312.D

Analysis Method: 8260C Date Collected: 11/28/2016 13:40

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:26

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	5.0	U	5.0	2.6
1634-04-4	Methyl tert-butyl ether	2.0	U	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
100-42-5	Styrene	2.0	U	2.0	1.5
127-18-4	Tetrachloroethene	2.0	U	2.0	0.72
108-88-3	Toluene	1.7	J	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
79-01-6	Trichloroethene	2.0		2.0	0.92
75-69-4	Trichlorofluoromethane	2.0	U	2.0	1.8
75-01-4	Vinyl chloride	2.0		2.0	1.8
1330-20-7	Xylenes, Total	4.0	U	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D
 Lims ID: 480-110191-B-21
 Client ID: 4009-29I
 Sample Type: Client
 Inject. Date: 03-Dec-2016 13:26:30 ALS Bottle#: 67 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-110191-b-21
 Misc. Info.: 480-0058850-011
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Dec-2016 08:41:31 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: archern

Date: 05-Dec-2016 08:41:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76894	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	155415	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	152822	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.017	0.000	56	92283	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	58771	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	376541	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.853	0.006	92	118262	23.0	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62	1.604	1.604	0.000	20	3033	0.9876	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64	2.048	2.024	0.024	78	27787	14.6	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43	2.918	2.912	0.006	69	3968	3.07	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.551				ND	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	49	11688	1.97	
45 cis-1,2-Dichloroethene	96	4.542	4.542	0.000	67	75243	20.6	
43 2-Butanone (MEK)	43		4.579				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.339	5.333	0.006	97	818739	60.1	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	39	3410	0.9898	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92	7.195	7.189	0.006	60	7463	0.8415	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.255				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.743				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Worklist Smp#: 11

Client ID: 4009-29I

Purge Vol: 5.000 mL

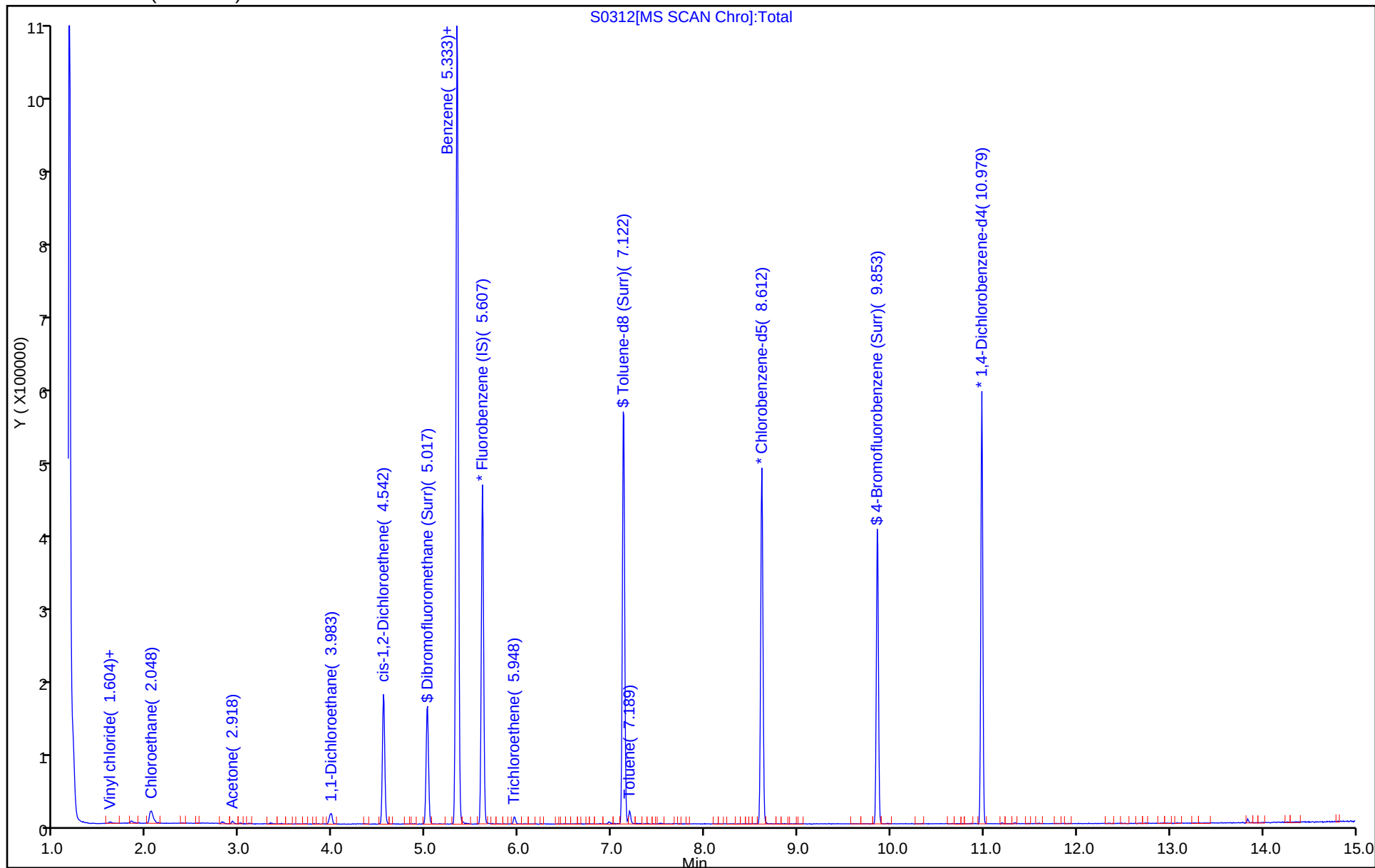
Dil. Factor: 2.0000

ALS Bottle#: 67

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

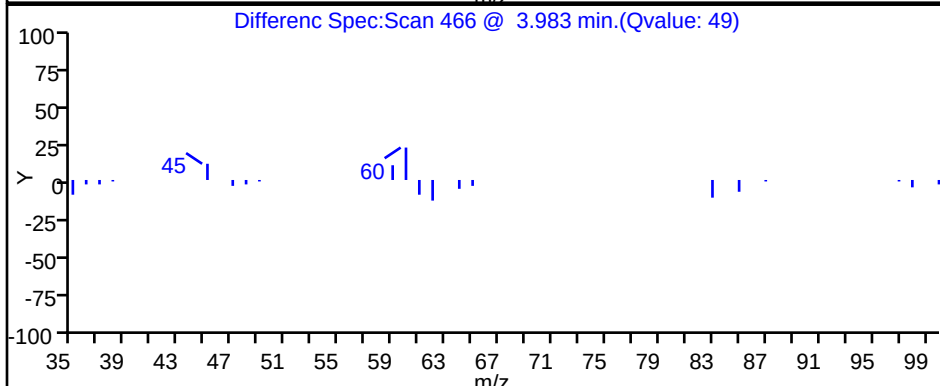
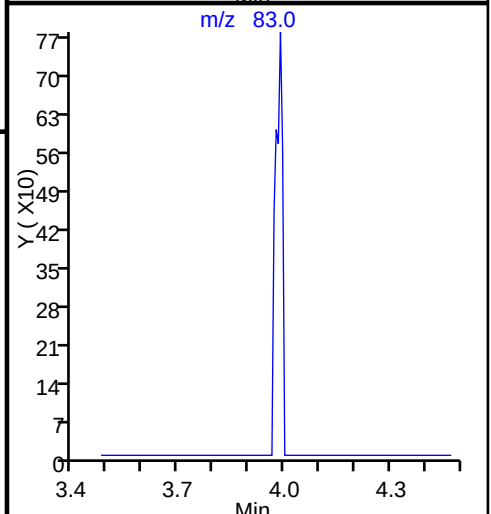
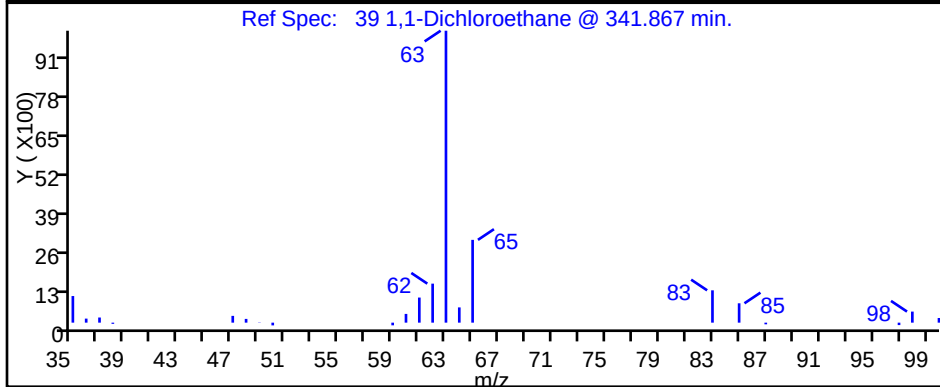
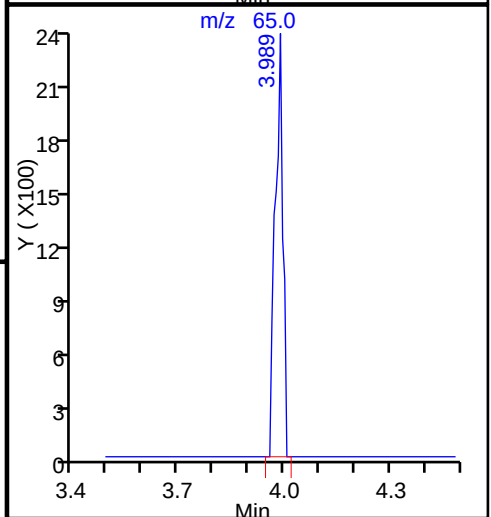
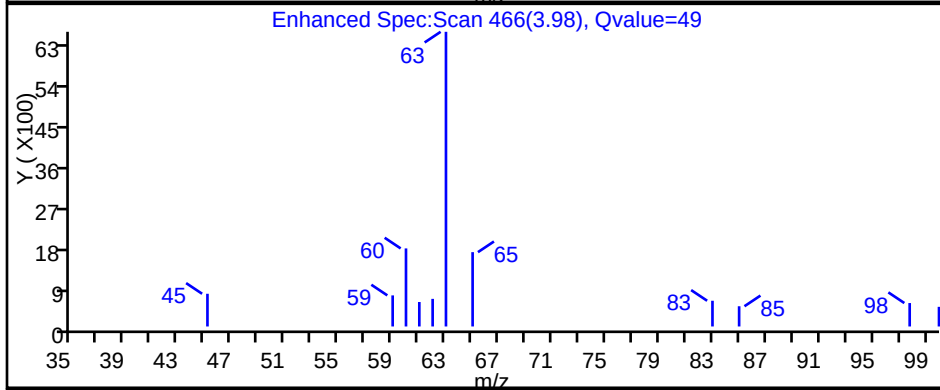
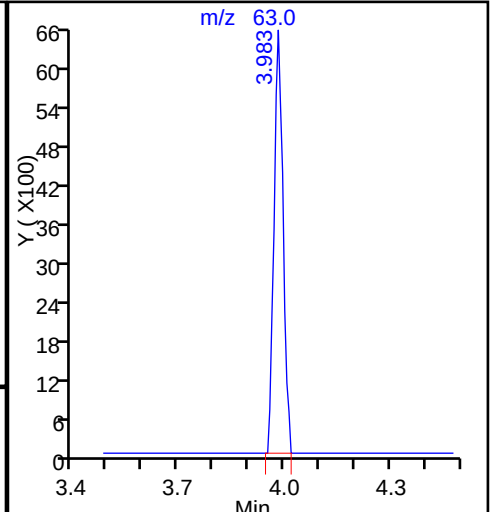
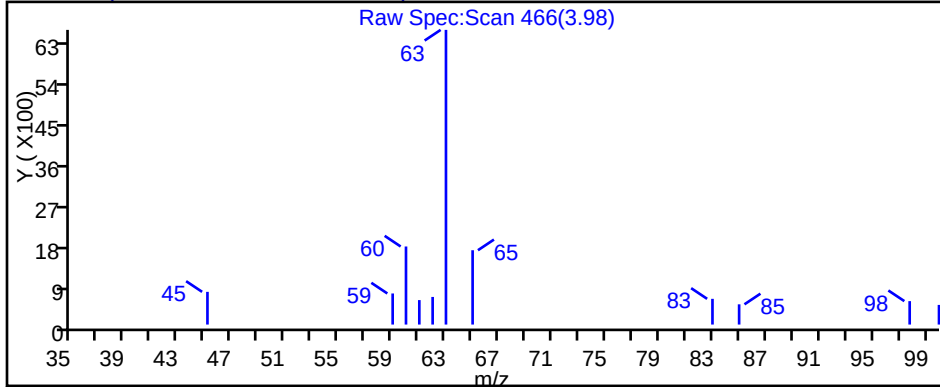
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-29I

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

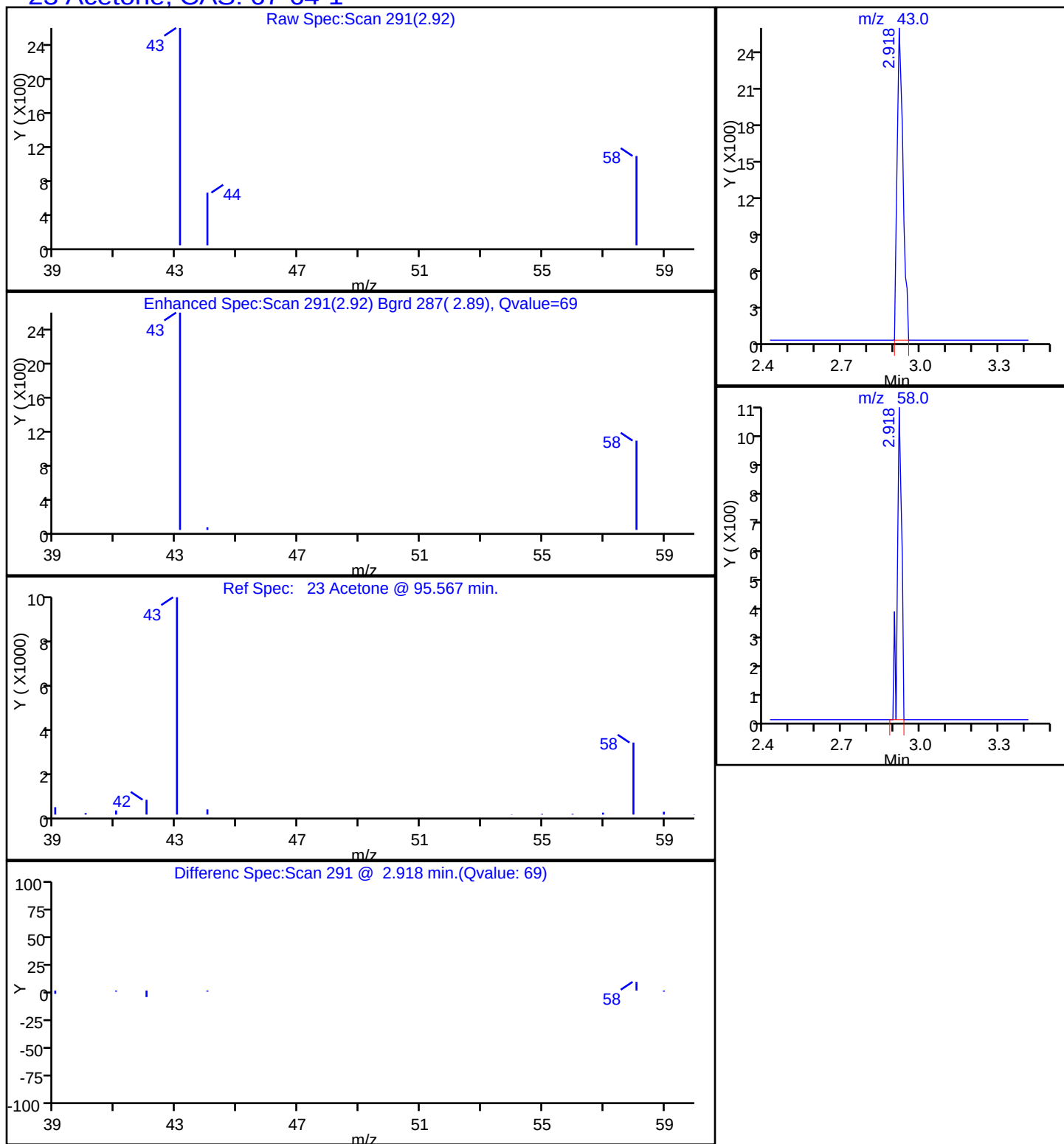
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-29I

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

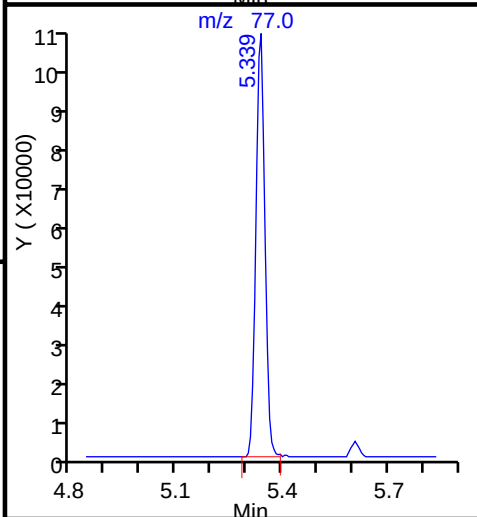
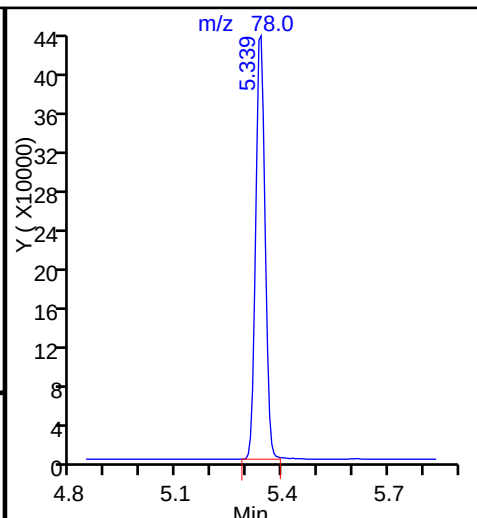
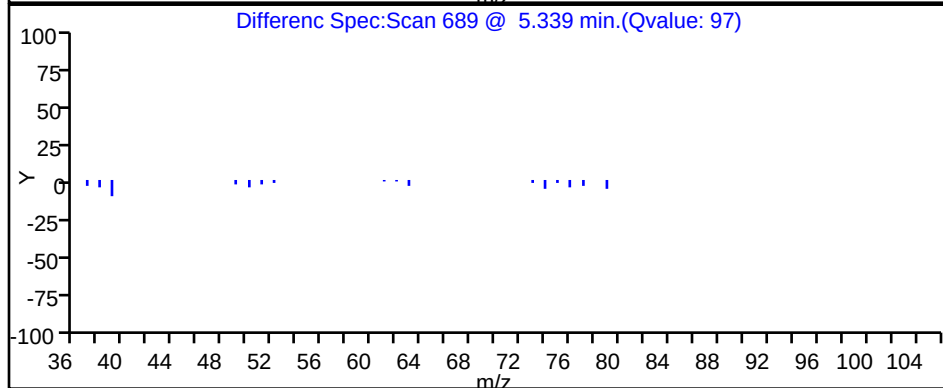
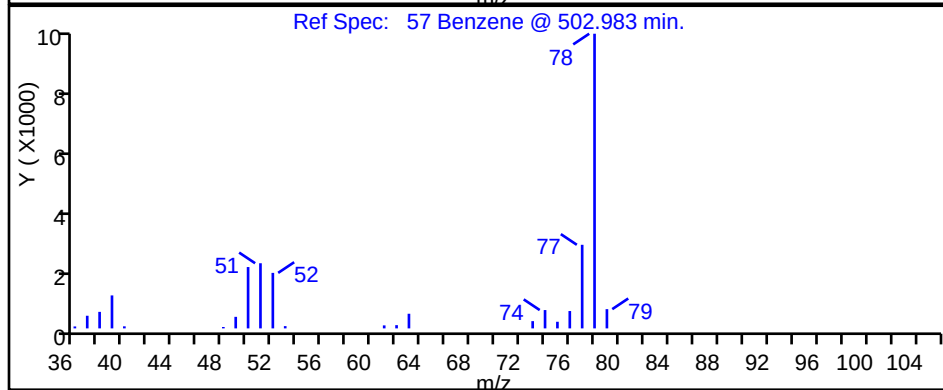
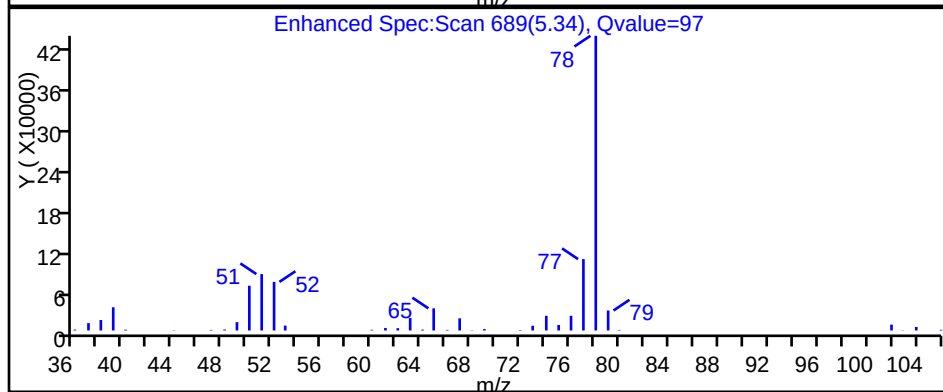
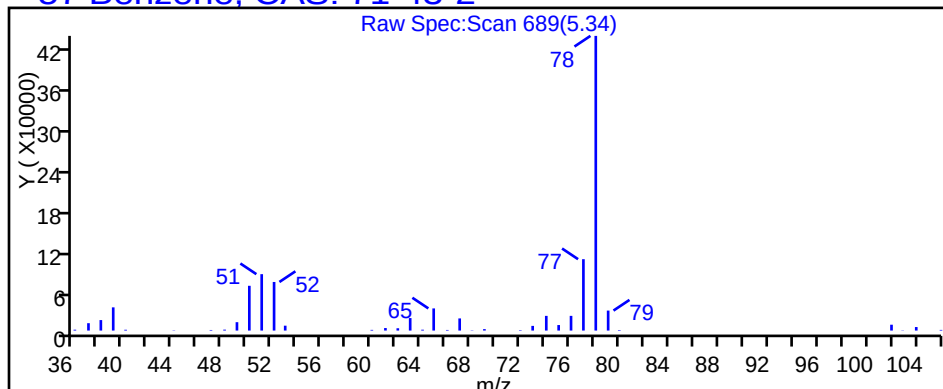
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

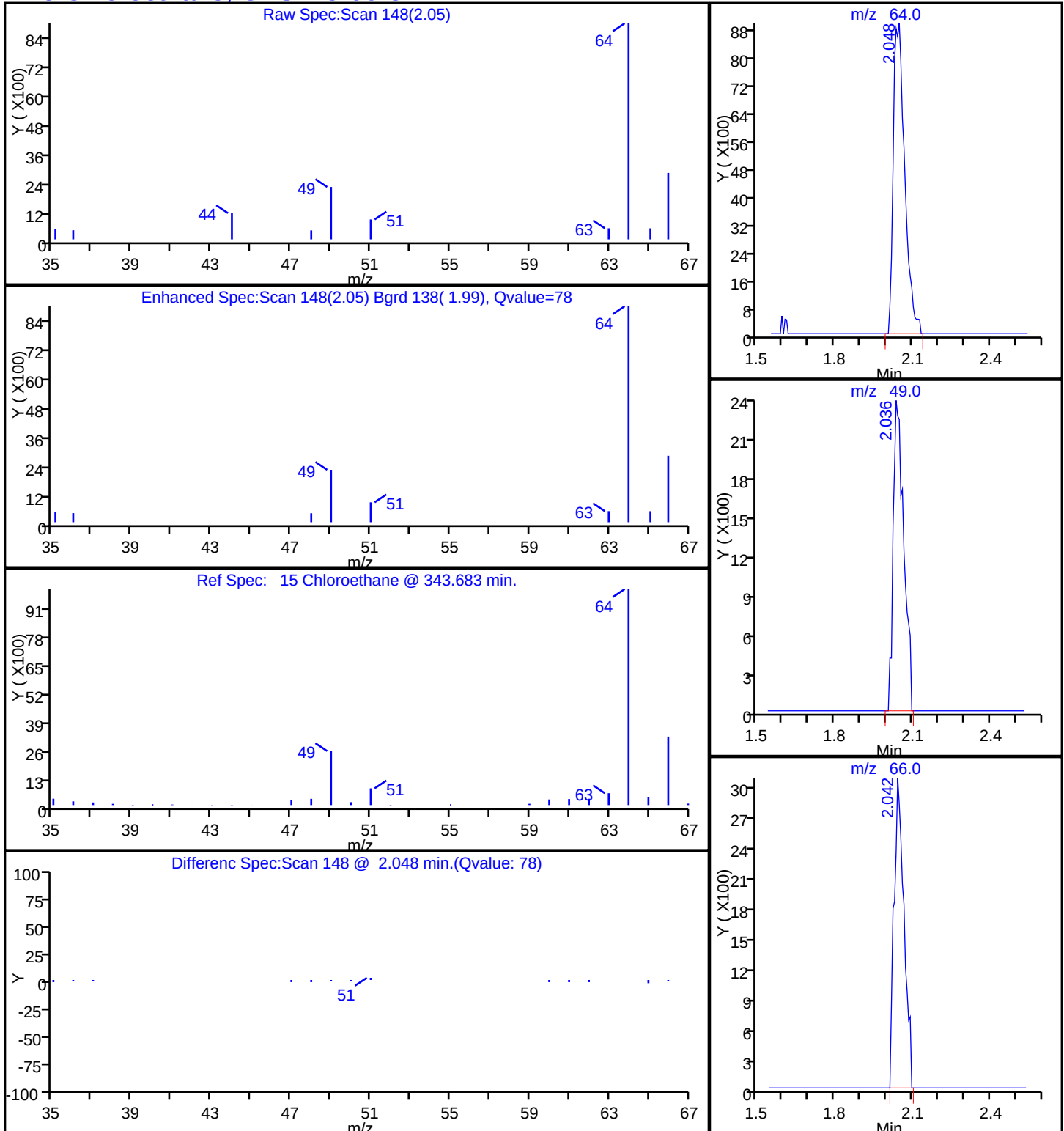
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

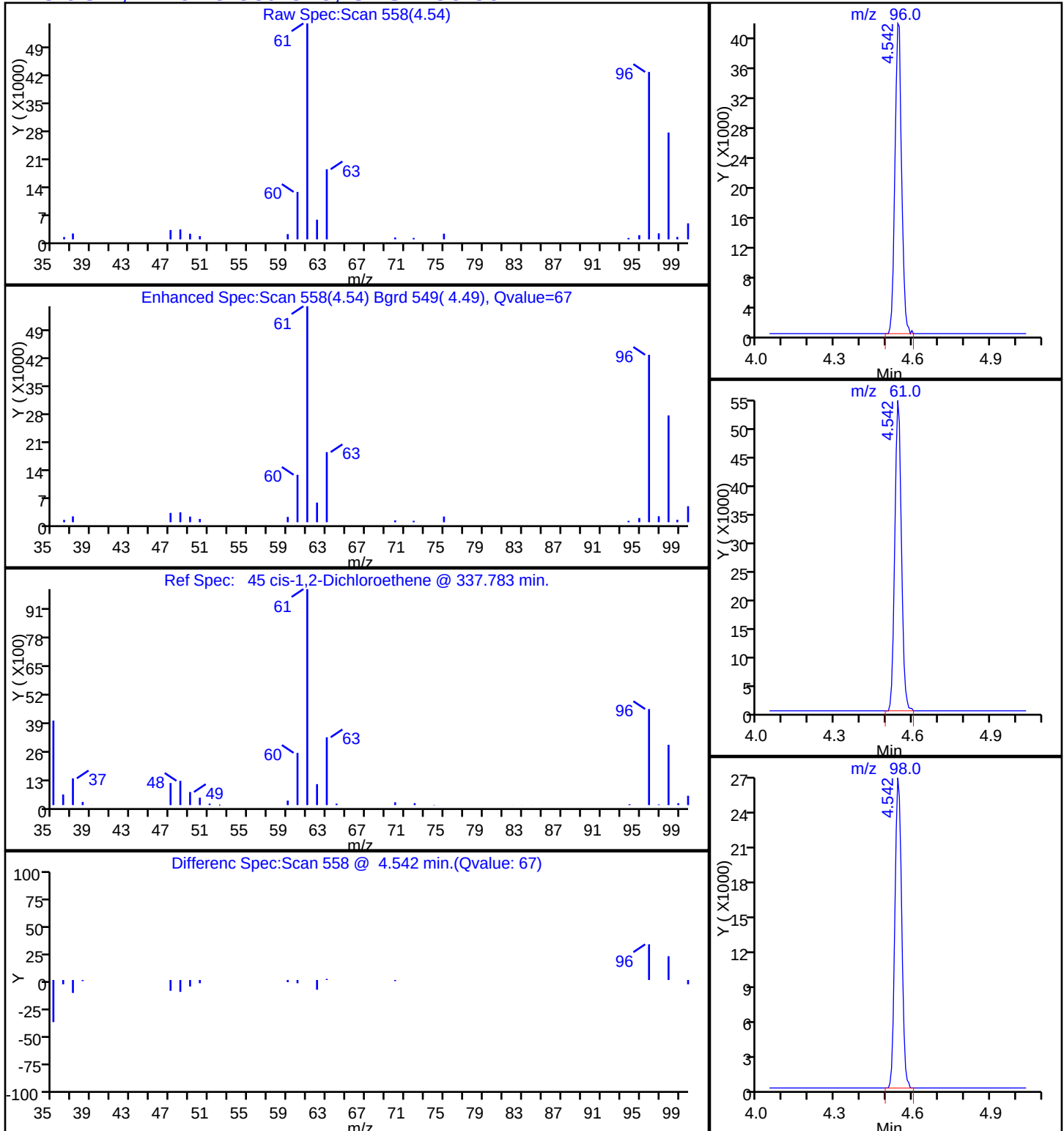
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-29I

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

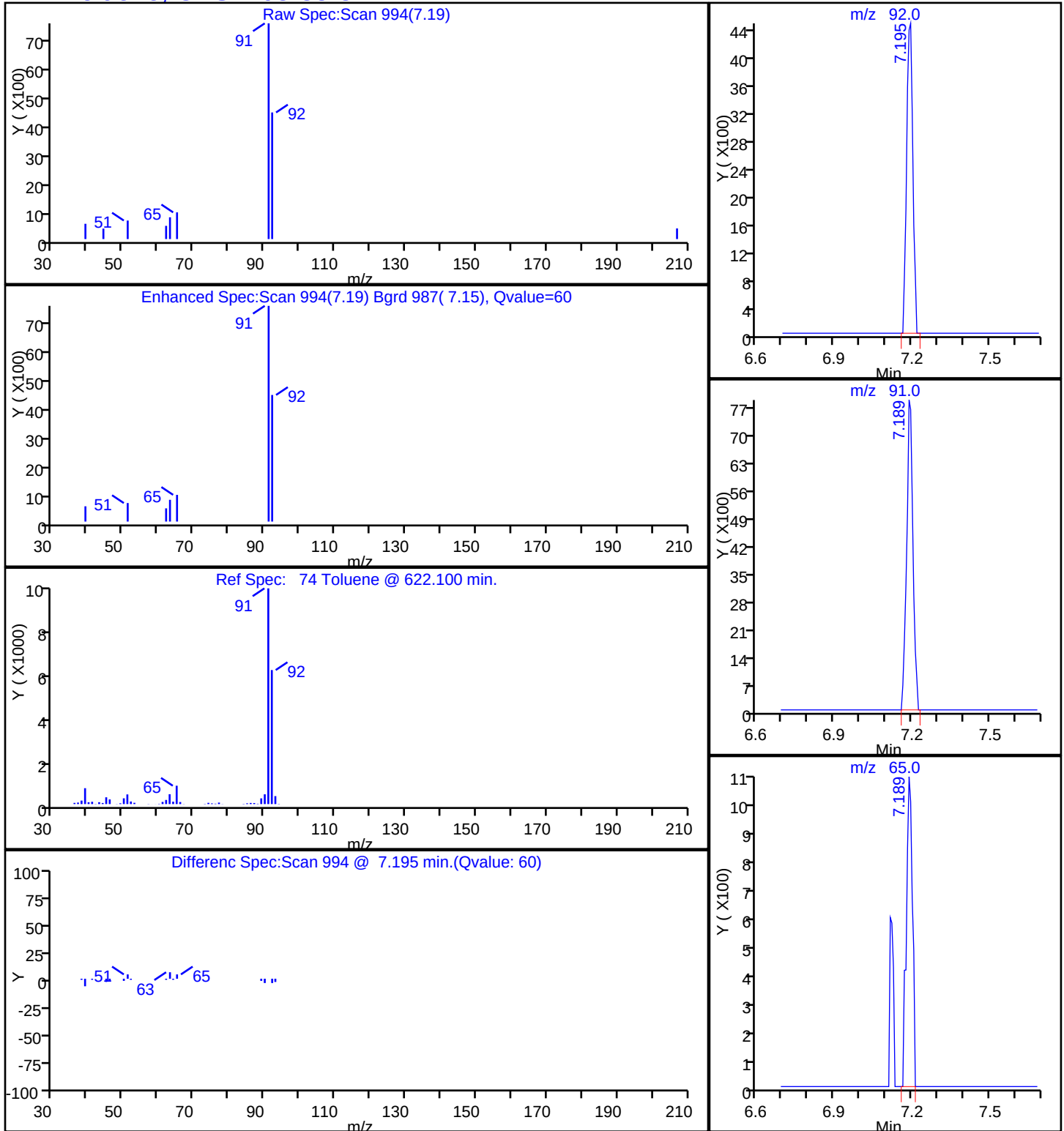
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

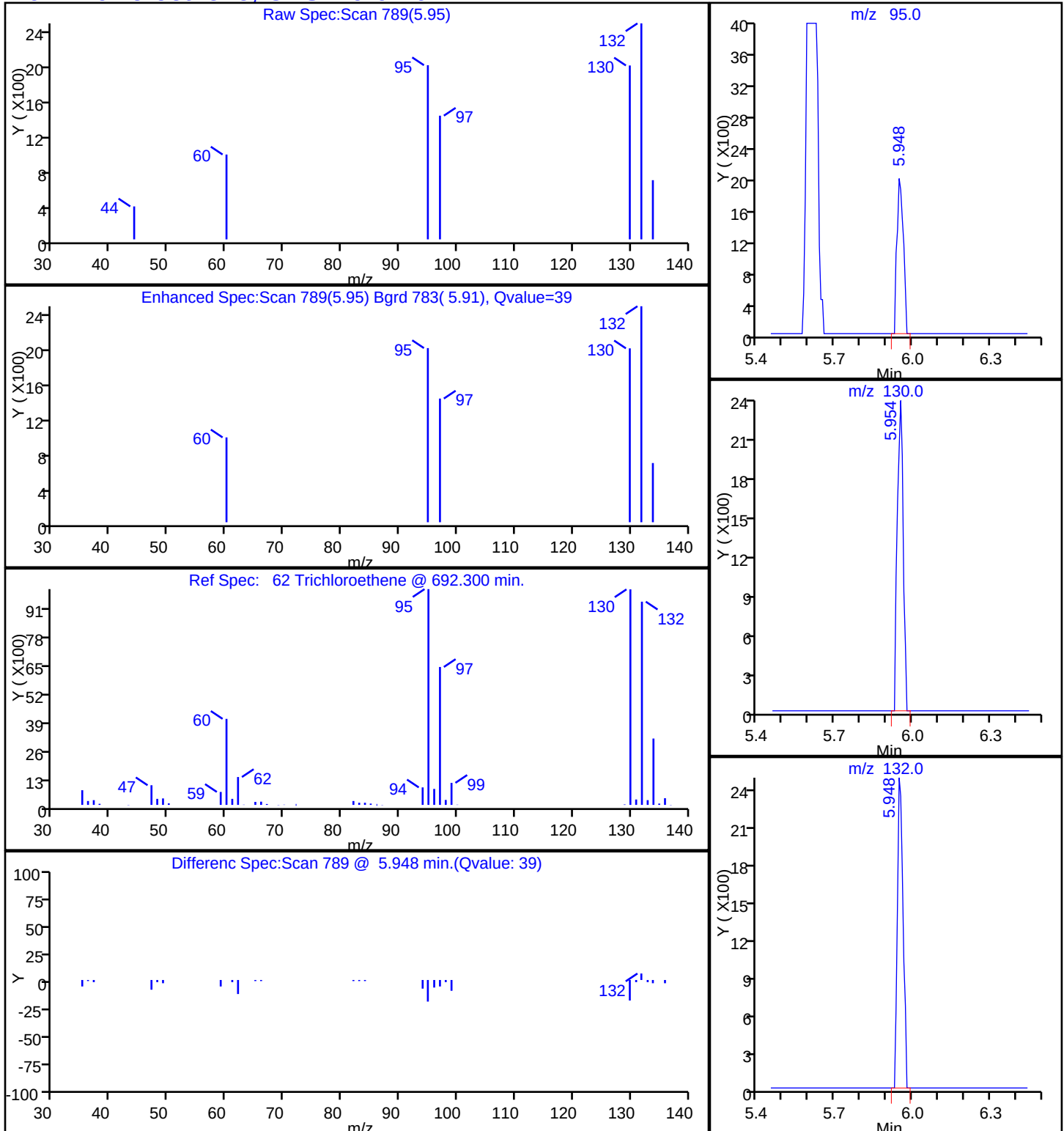
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0312.D

Injection Date: 03-Dec-2016 13:26:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-21

Lab Sample ID: 480-110191-21

Client ID: 4009-291

Operator ID: GTG

ALS Bottle#: 67

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

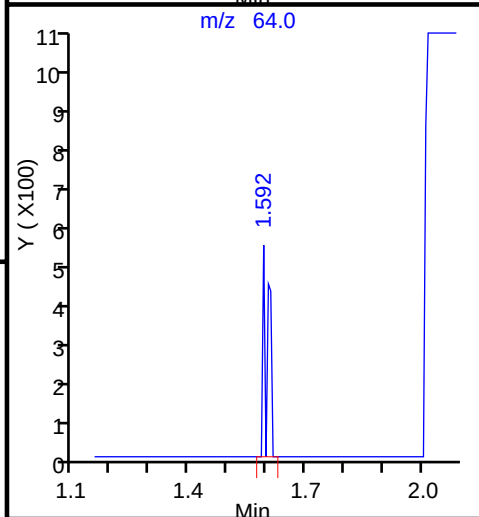
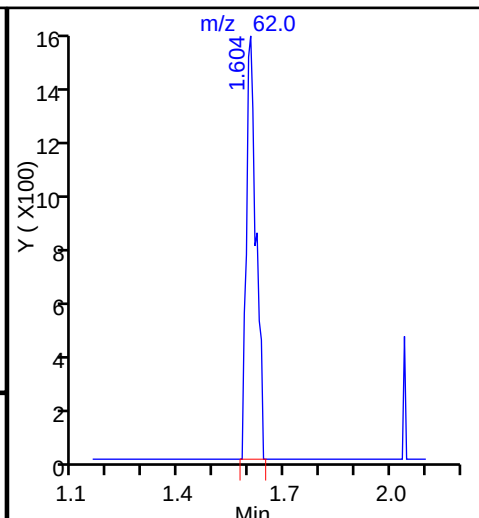
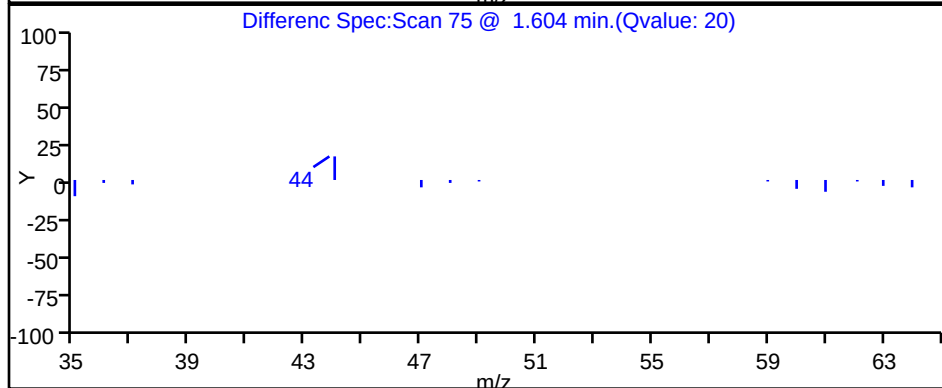
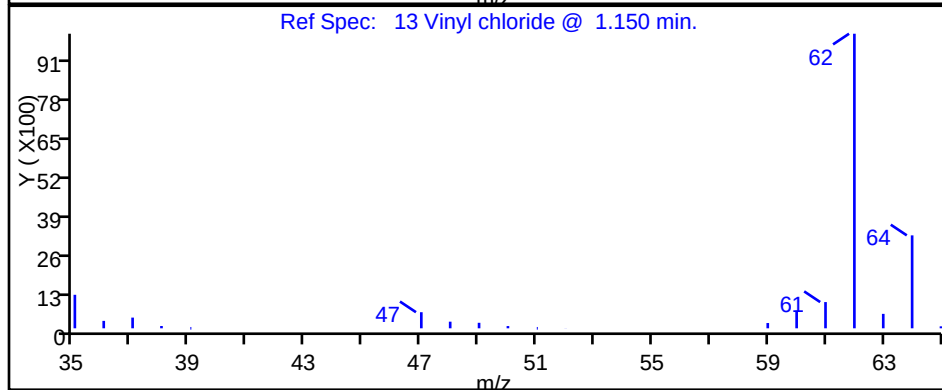
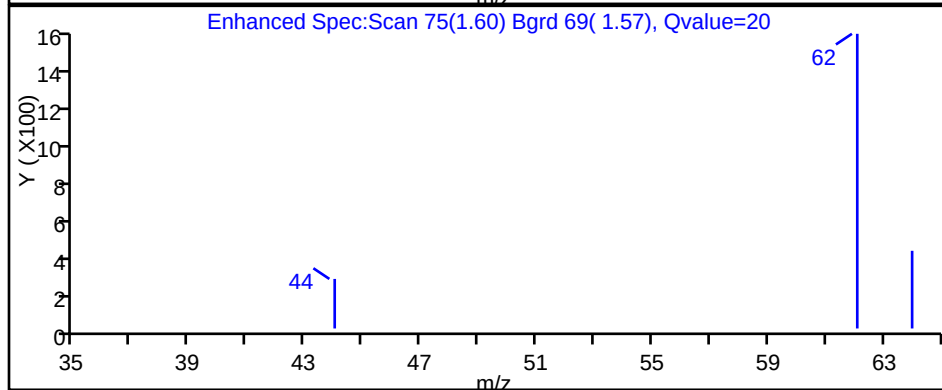
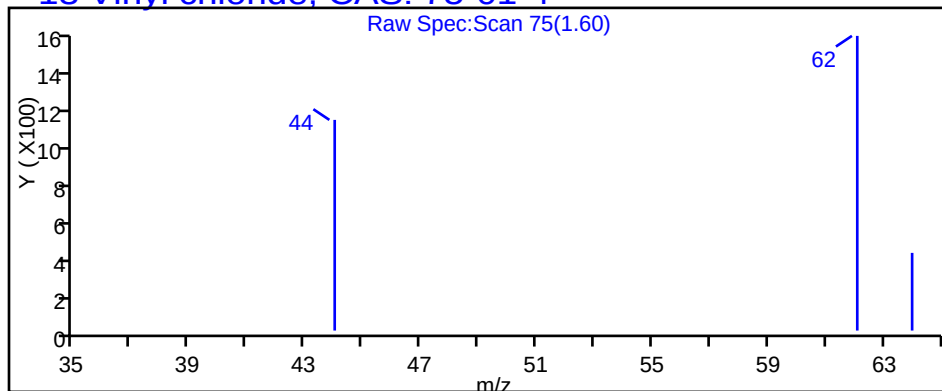
Method: S-8260

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-29D</u>	Lab Sample ID: <u>480-110191-22</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0287.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 13:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 01:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	6.3		1.0	0.38
75-35-4	1,1-Dichloroethene	2.8		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	9.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-29D Lab Sample ID: 480-110191-22
 Matrix: Water Lab File ID: S0287.D
 Analysis Method: 8260C Date Collected: 11/28/2016 13:35
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 01:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.7		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	15		1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D
 Lims ID: 480-110191-A-22
 Client ID: 4009-29D
 Sample Type: Client
 Inject. Date: 03-Dec-2016 01:05:30 ALS Bottle#: 42 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-22
 Misc. Info.: 480-0058844-019
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:07:45 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:07:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	74575	25.0	
* 2 Chlorobenzene-d5	82	8.613	8.612	0.001	83	152254	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	147498	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	90697	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	57863	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	372133	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.853	0.007	92	118771	23.6	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62	1.598	1.598	0.000	65	44031	14.8	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96	2.809	2.803	0.006	40	8113	2.82	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	65	36113	6.27	
45 cis-1,2-Dichloroethene	96	4.543	4.536	0.007	70	33805	9.54	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97	4.981	4.974	0.007	90	82629	21.4	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	57	5703	1.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D

Injection Date: 03-Dec-2016 01:05:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-22

Lab Sample ID: 480-110191-22

Worklist Smp#: 19

Client ID: 4009-29D

Purge Vol: 5.000 mL

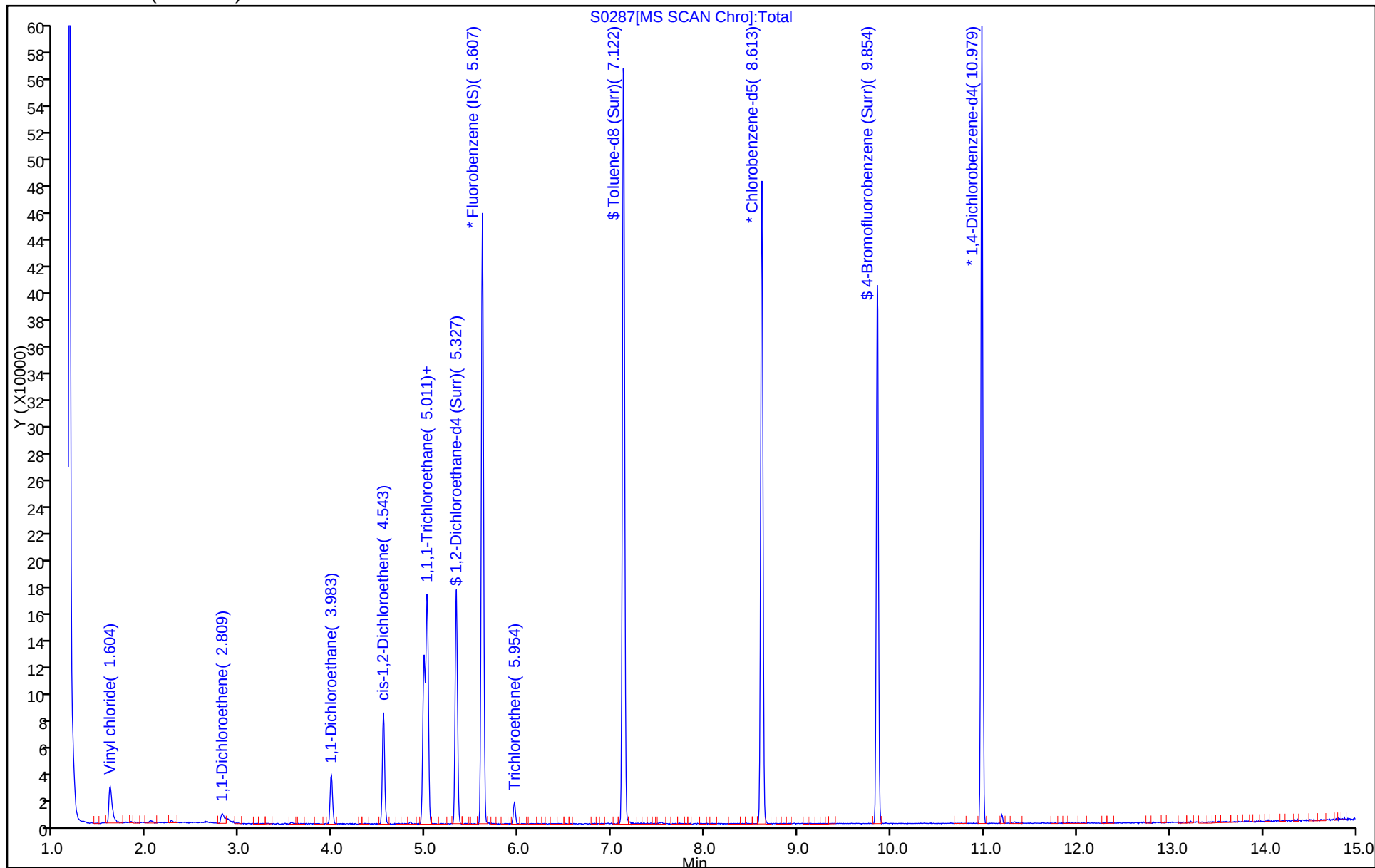
Dil. Factor: 1.0000

ALS Bottle#: 42

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D

Injection Date: 03-Dec-2016 01:05:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-22

Lab Sample ID: 480-110191-22

Client ID: 4009-29D

Operator ID: SO

ALS Bottle#: 42

Worklist Smp#: 19

Purge Vol: 5.000 mL

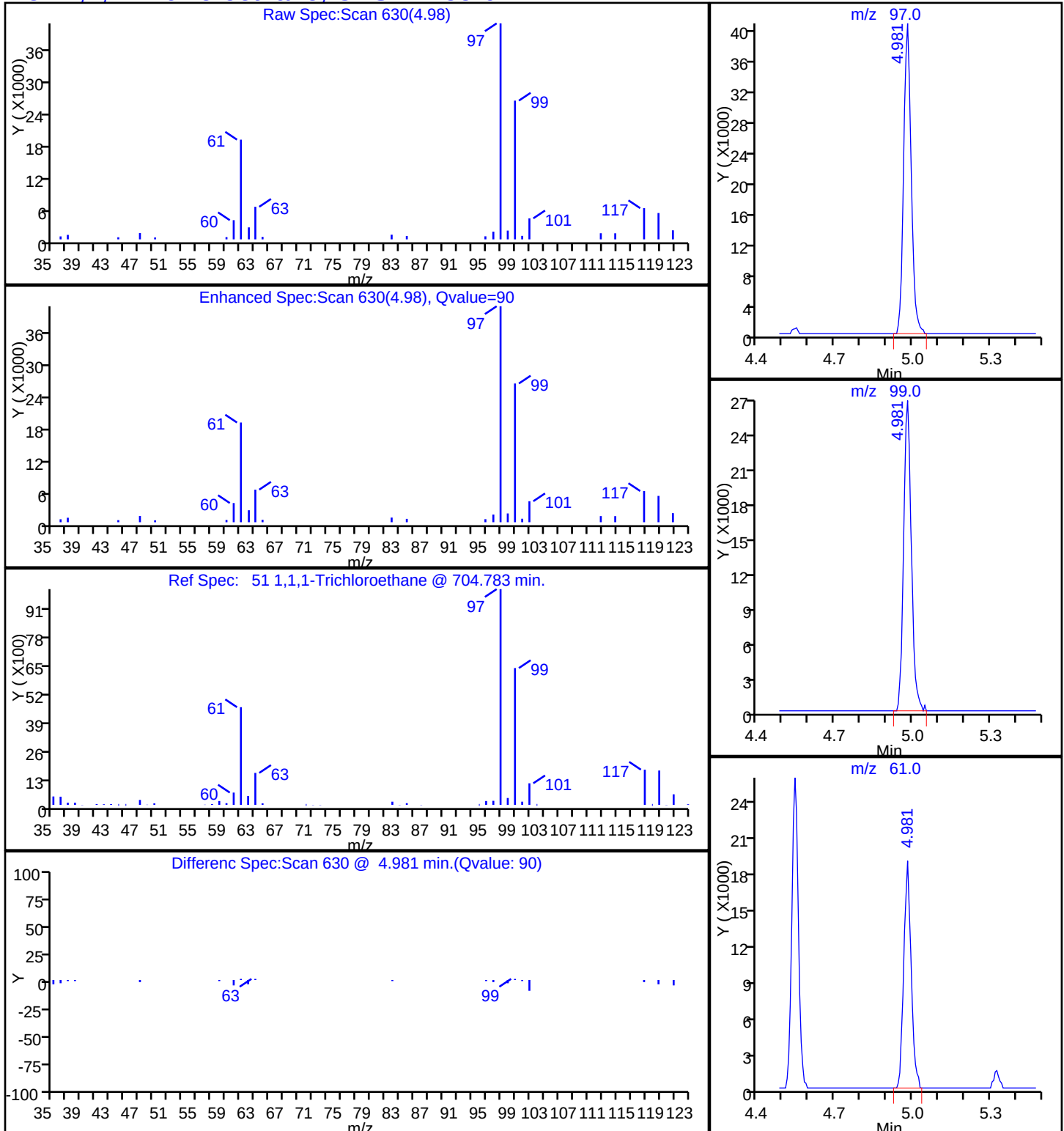
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

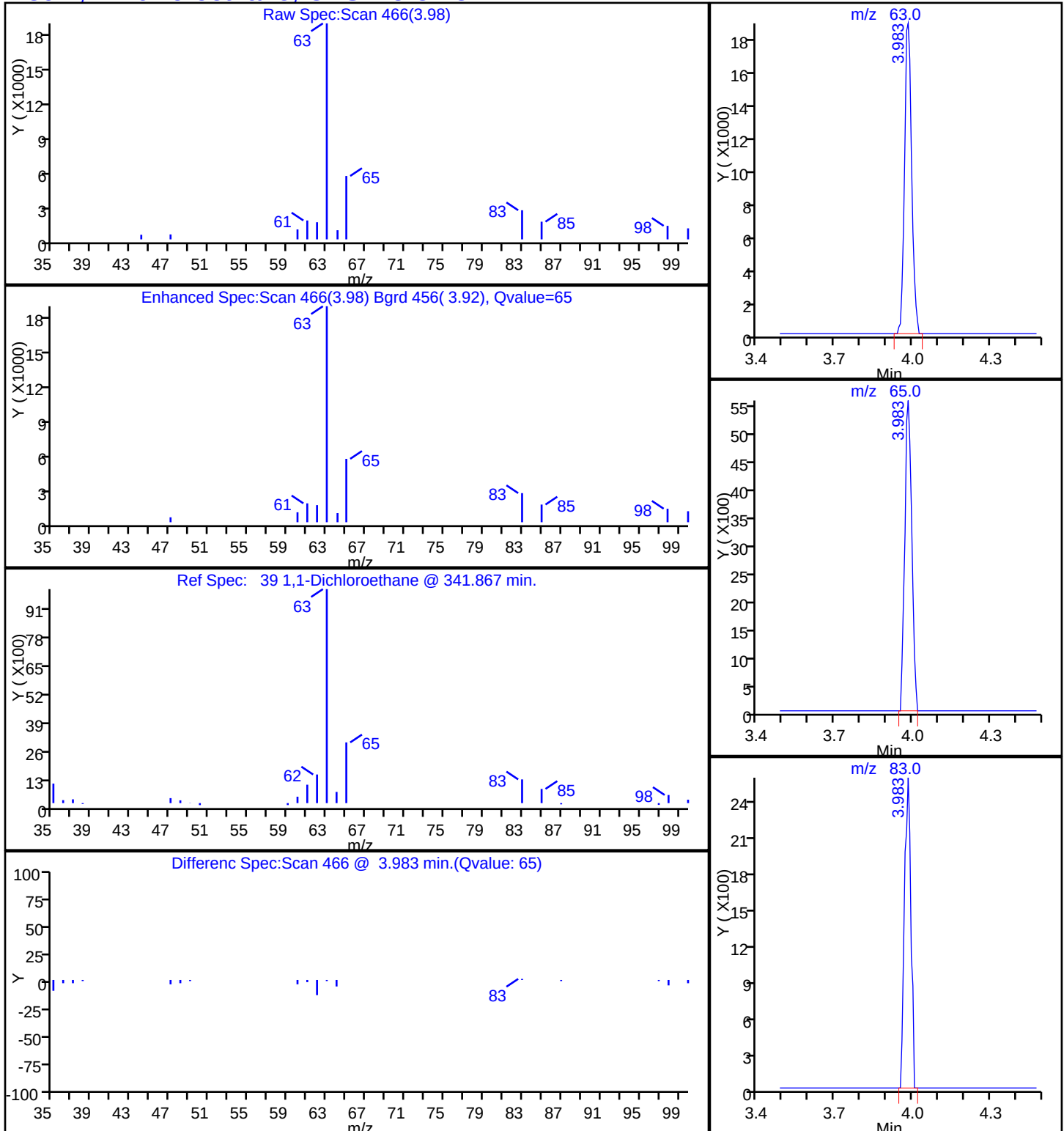
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D
Injection Date: 03-Dec-2016 01:05:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-22 Lab Sample ID: 480-110191-22
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 42 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D

Injection Date: 03-Dec-2016 01:05:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-22

Lab Sample ID: 480-110191-22

Client ID: 4009-29D

Operator ID: SO

ALS Bottle#: 42

Worklist Smp#: 19

Purge Vol: 5.000 mL

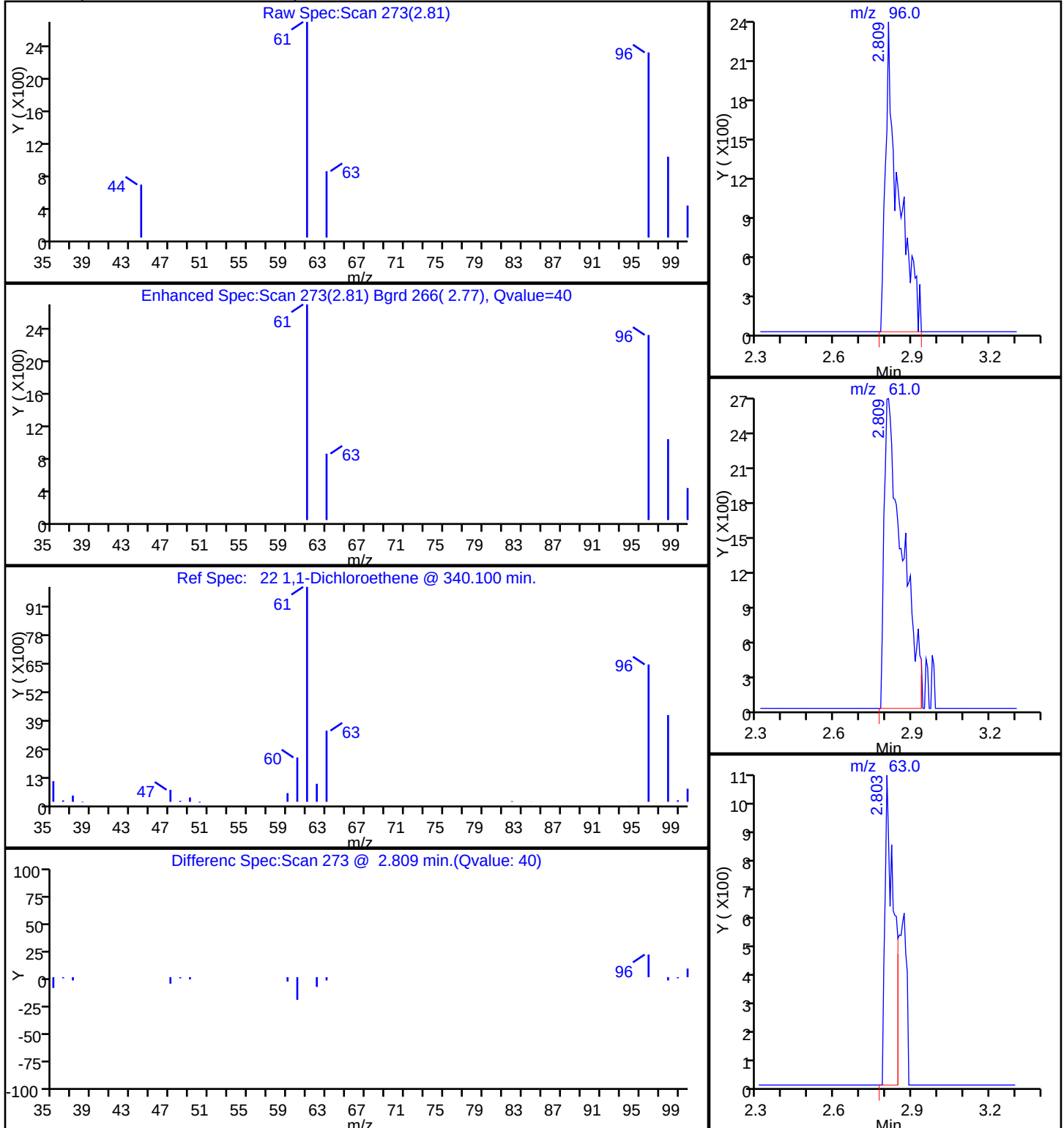
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

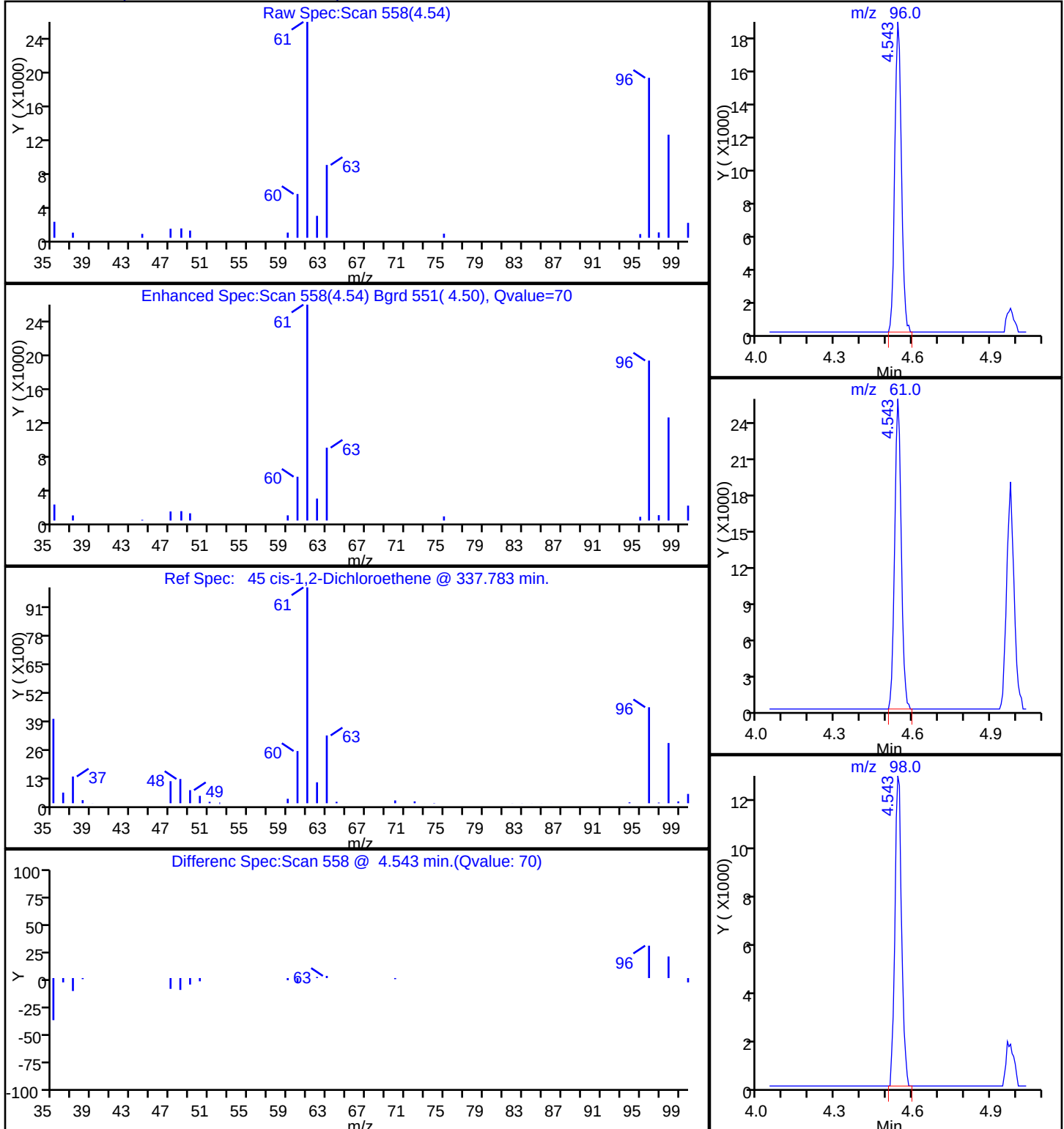
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D
Injection Date: 03-Dec-2016 01:05:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-22 Lab Sample ID: 480-110191-22
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 42 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D

Injection Date: 03-Dec-2016 01:05:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-22

Lab Sample ID: 480-110191-22

Client ID: 4009-29D

Operator ID: SO

ALS Bottle#: 42

Worklist Smp#: 19

Purge Vol: 5.000 mL

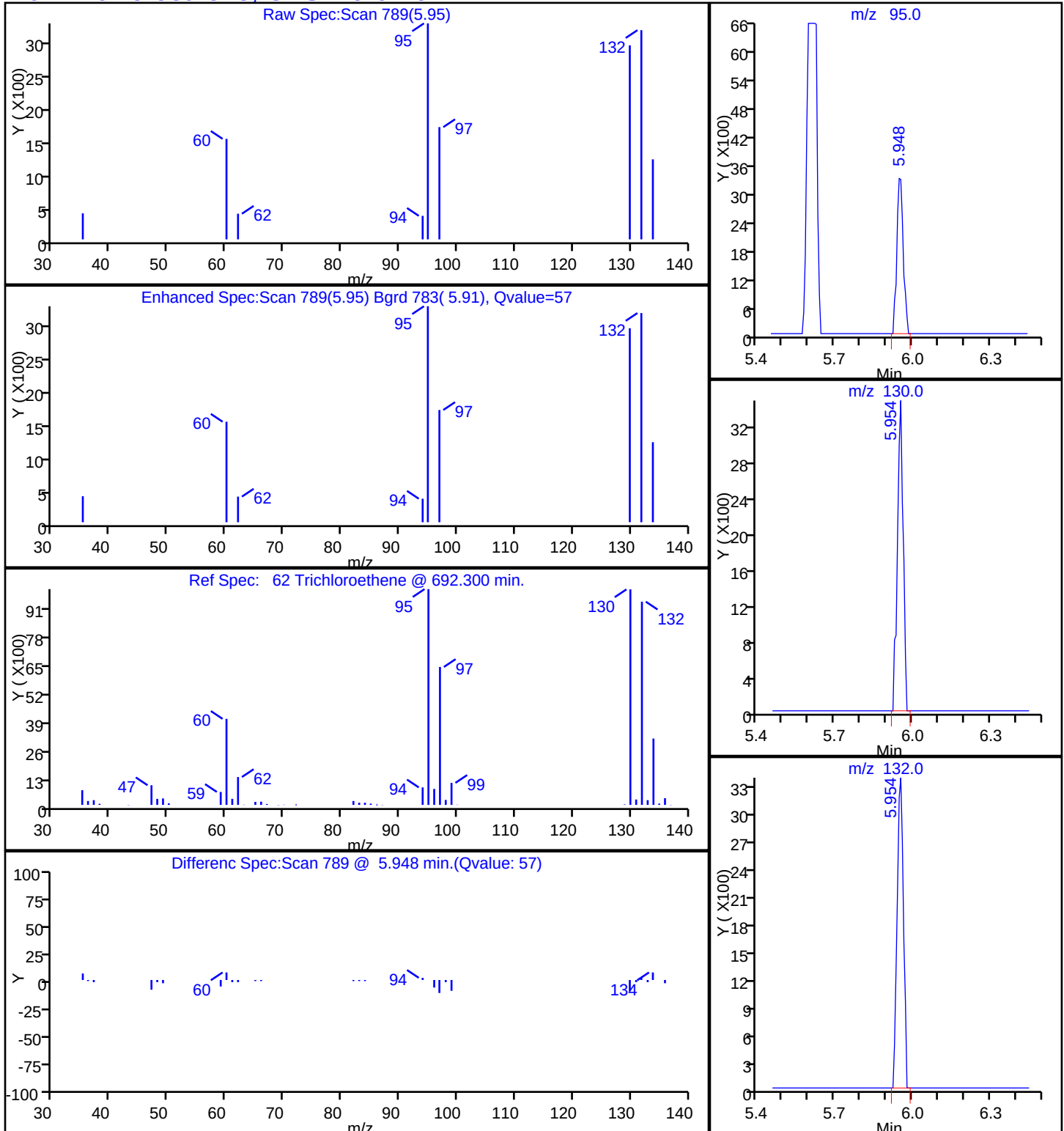
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0287.D

Injection Date: 03-Dec-2016 01:05:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-22

Lab Sample ID: 480-110191-22

Client ID: 4009-29D

Operator ID: SO

ALS Bottle#: 42

Worklist Smp#: 19

Purge Vol: 5.000 mL

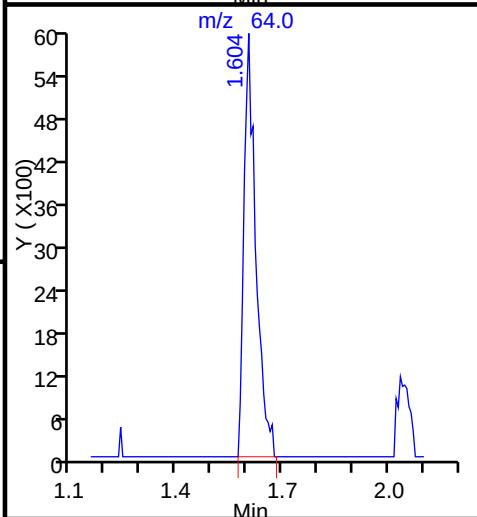
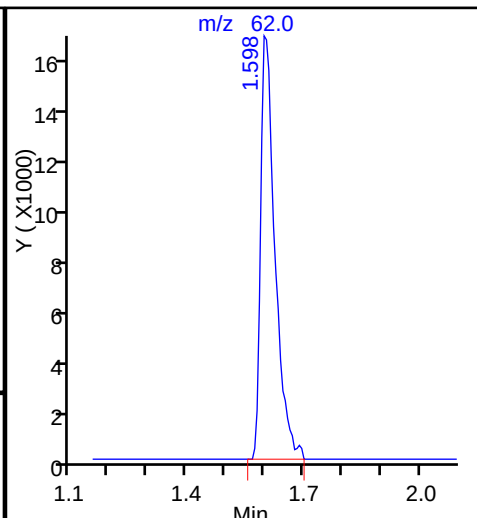
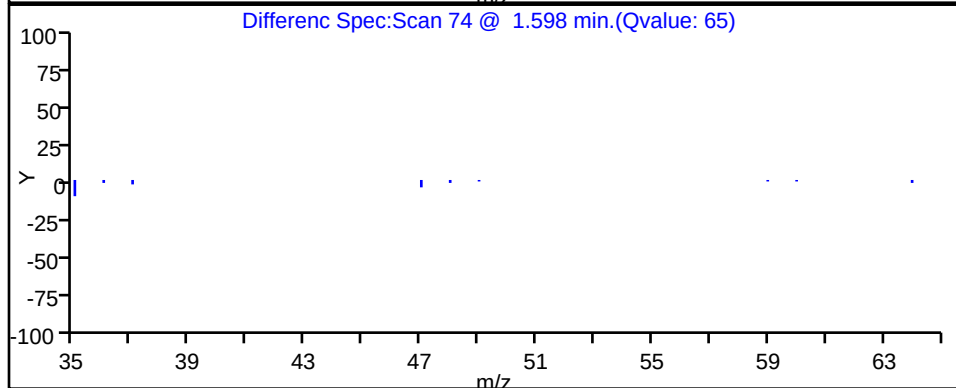
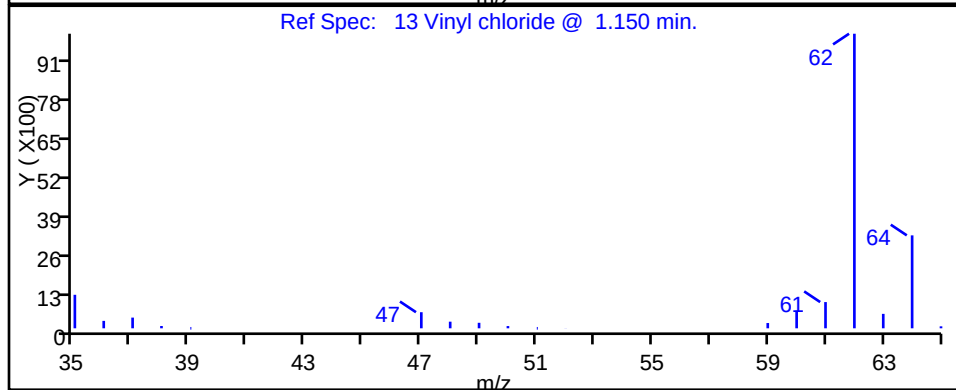
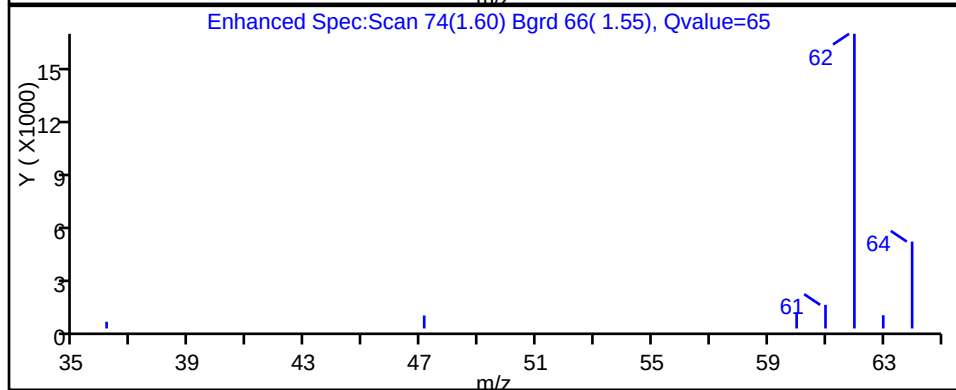
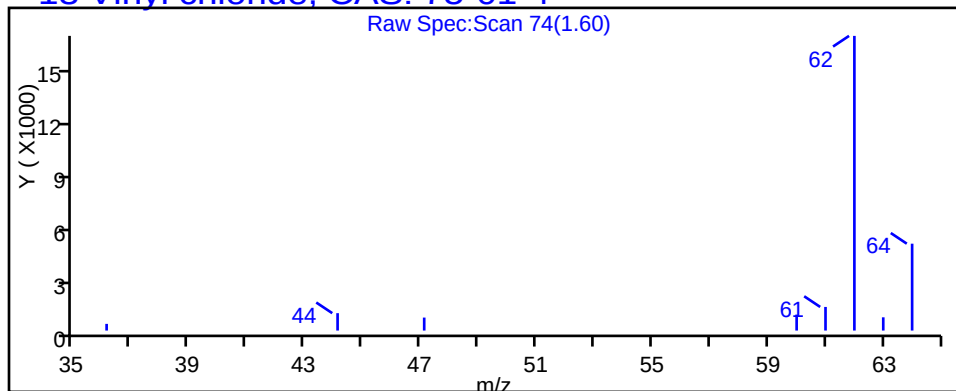
Dil. Factor: 1.0000

Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-30</u>	Lab Sample ID: <u>480-110191-23</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0288.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 01:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	0.93	J	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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		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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-30</u>	Lab Sample ID: <u>480-110191-23</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0288.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 01:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0288.D
 Lims ID: 480-110191-A-23
 Client ID: 4009-30
 Sample Type: Client
 Inject. Date: 03-Dec-2016 01:29:30 ALS Bottle#: 43 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-23
 Misc. Info.: 480-0058844-020
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:07:45 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:08:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78072	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	159766	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	153086	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	93784	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60298	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	389959	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	120184	22.7	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.989	3.977	0.012	1	5579	0.9250	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78	5.339	5.333	0.006	38	14163	1.02	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0288.D

Injection Date: 03-Dec-2016 01:29:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-23

Lab Sample ID: 480-110191-23

Worklist Smp#: 20

Client ID: 4009-30

Purge Vol: 5.000 mL

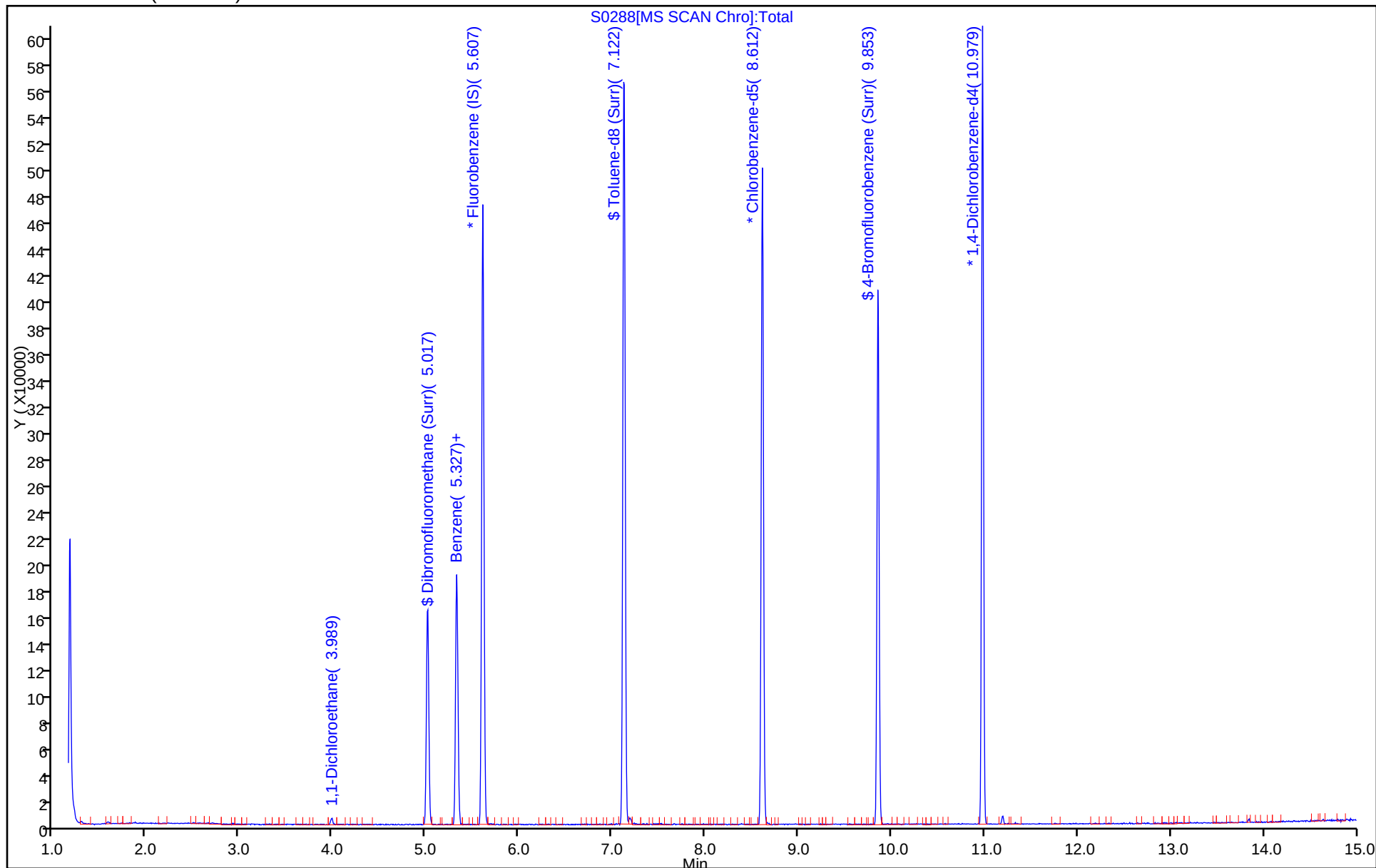
Dil. Factor: 1.0000

ALS Bottle#: 43

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0288.D

Injection Date: 03-Dec-2016 01:29:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-23

Lab Sample ID: 480-110191-23

Client ID: 4009-30

Operator ID: SO

ALS Bottle#: 43

Worklist Smp#: 20

Purge Vol: 5.000 mL

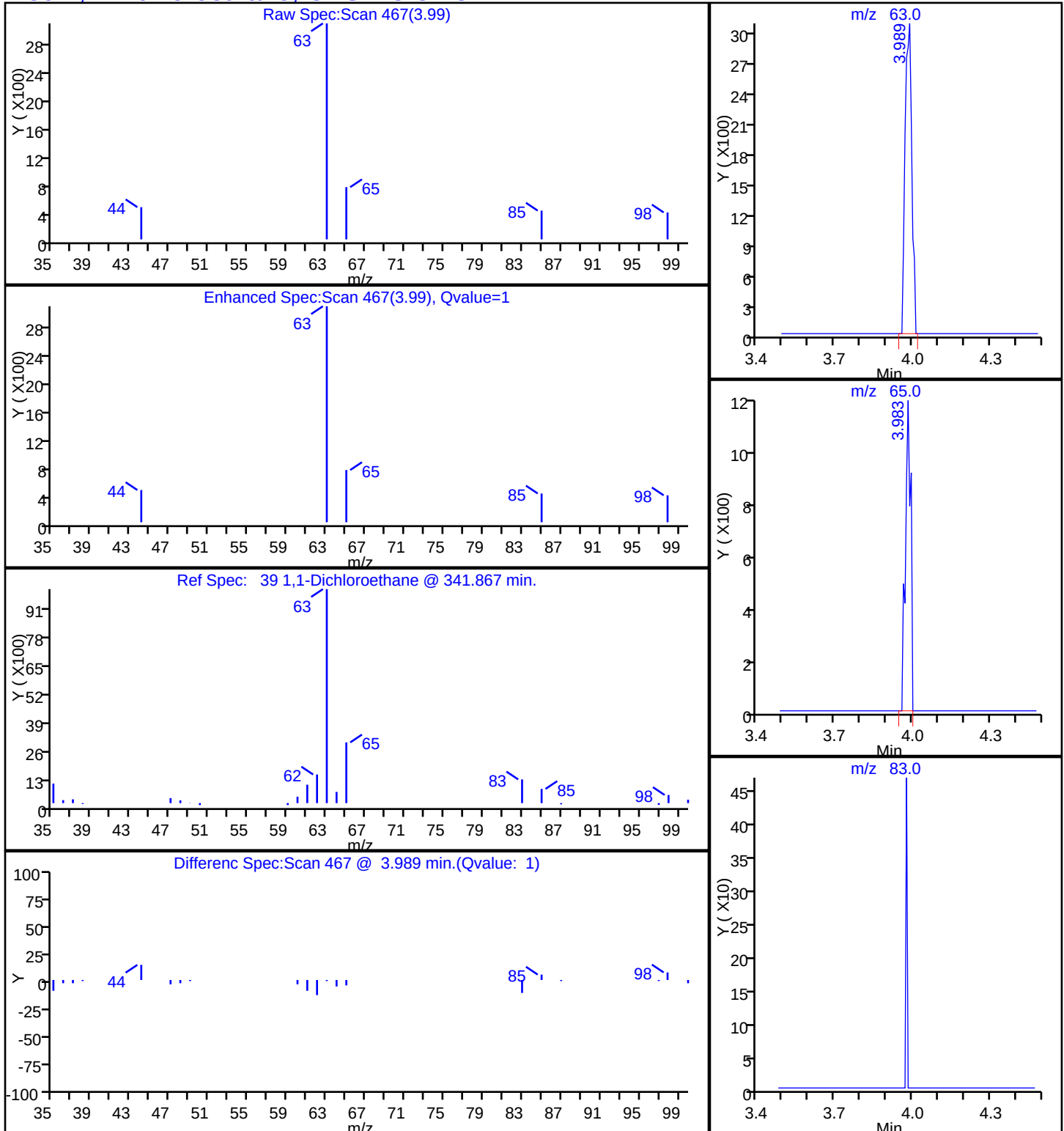
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

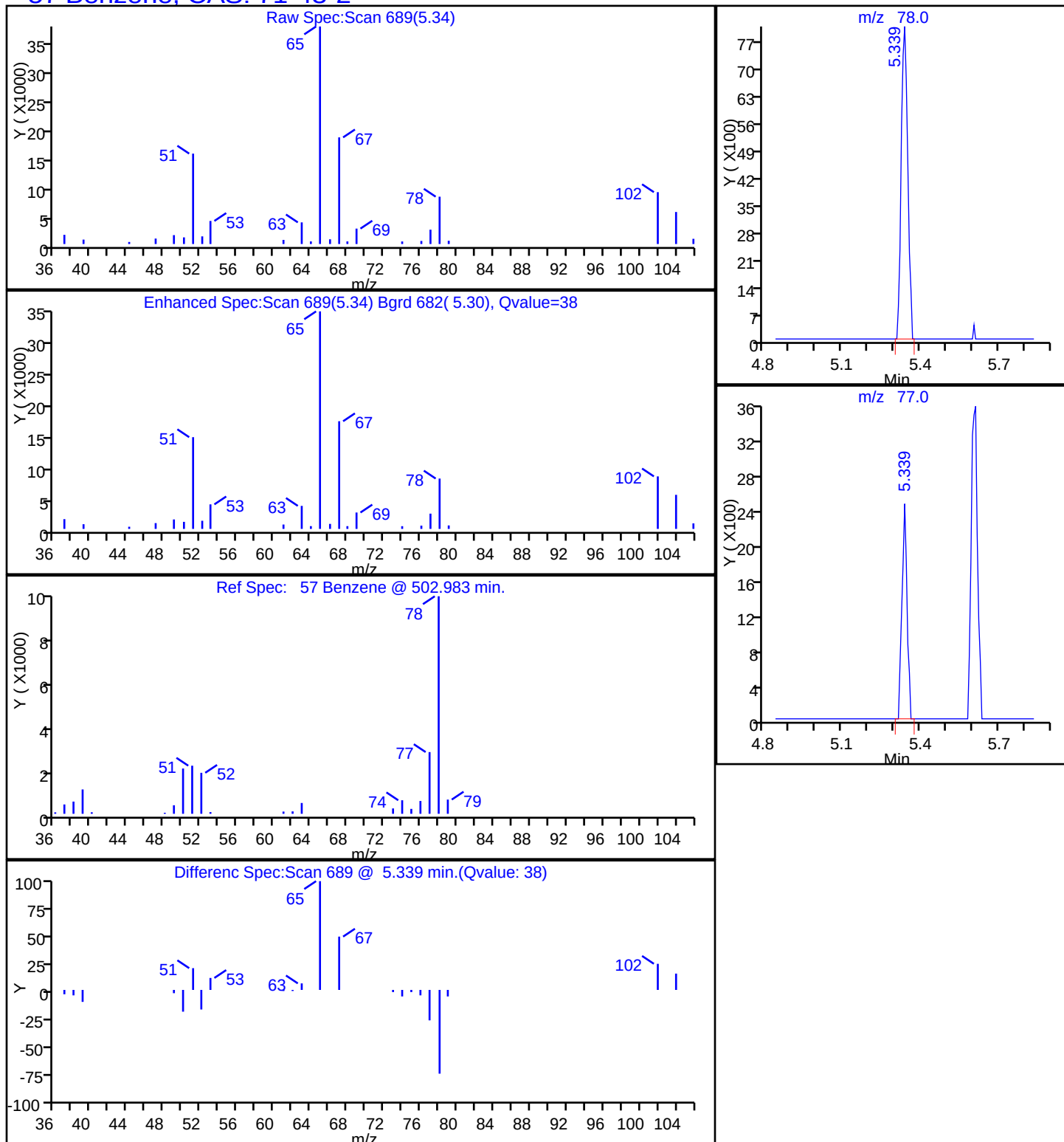
Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0288.D
Injection Date: 03-Dec-2016 01:29:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-23 Lab Sample ID: 480-110191-23
Client ID: 4009-30
Operator ID: SO ALS Bottle#: 43 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

57 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-30A</u>	Lab Sample ID: <u>480-110191-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0289.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 12:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 01:52</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	0.63	J	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-30A</u>	Lab Sample ID: <u>480-110191-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0289.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 12:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 01:52</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0289.D
 Lims ID: 480-110191-A-24
 Client ID: 4009-30A
 Sample Type: Client
 Inject. Date: 03-Dec-2016 01:52:30 ALS Bottle#: 44 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-24
 Misc. Info.: 480-0058844-021
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:07:45 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:08:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	75524	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	152146	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	150172	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	90515	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60297	26.1	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	377587	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.853	0.006	91	117485	23.3	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.977	3.977	0.000	1	3672	0.6294	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0289.D

Injection Date: 03-Dec-2016 01:52:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-24

Lab Sample ID: 480-110191-24

Worklist Smp#: 21

Client ID: 4009-30A

Purge Vol: 5.000 mL

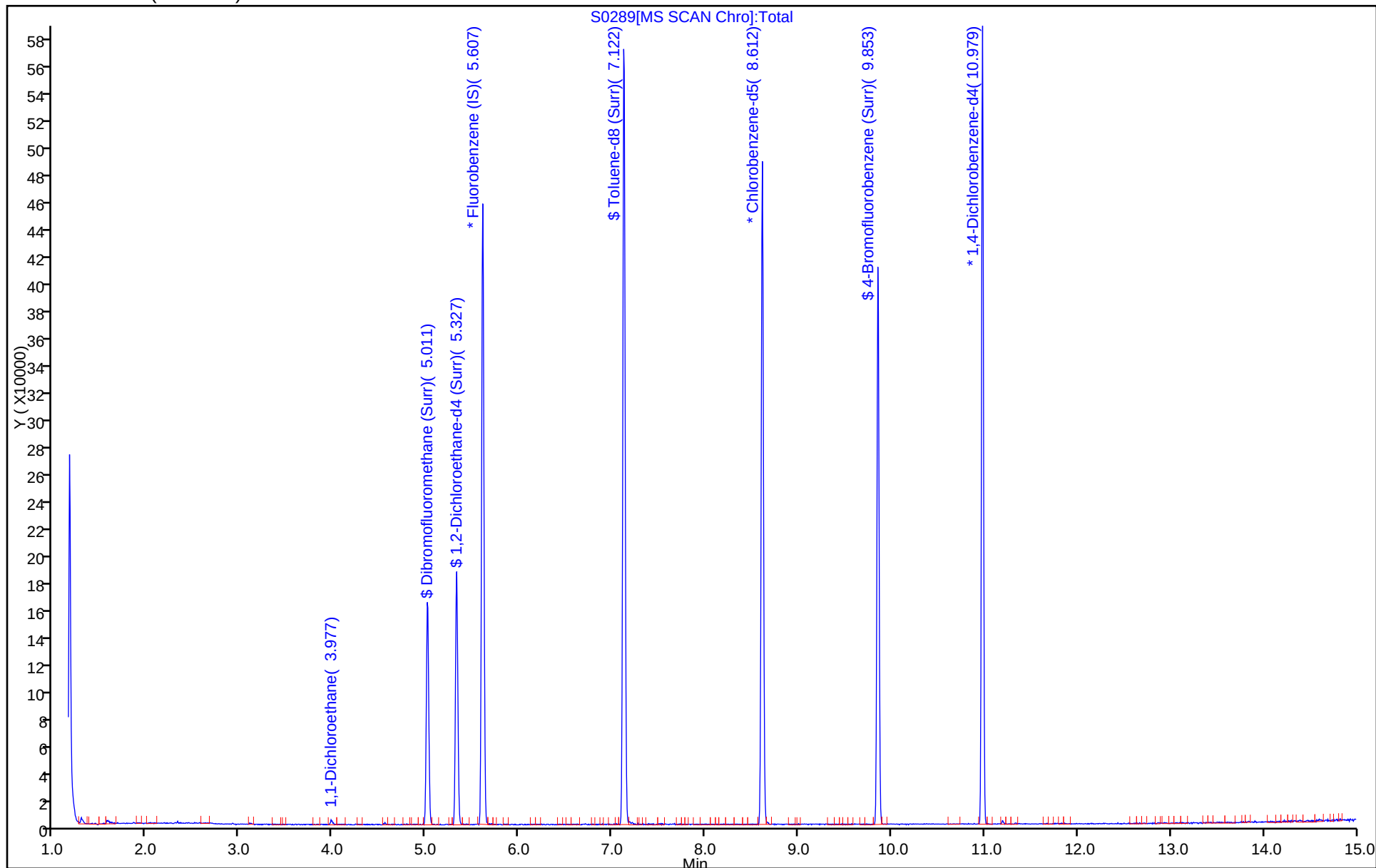
Dil. Factor: 1.0000

ALS Bottle#: 44

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0289.D

Injection Date: 03-Dec-2016 01:52:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-24

Lab Sample ID: 480-110191-24

Client ID: 4009-30A

Operator ID: SO

ALS Bottle#: 44

Worklist Smp#: 21

Purge Vol: 5.000 mL

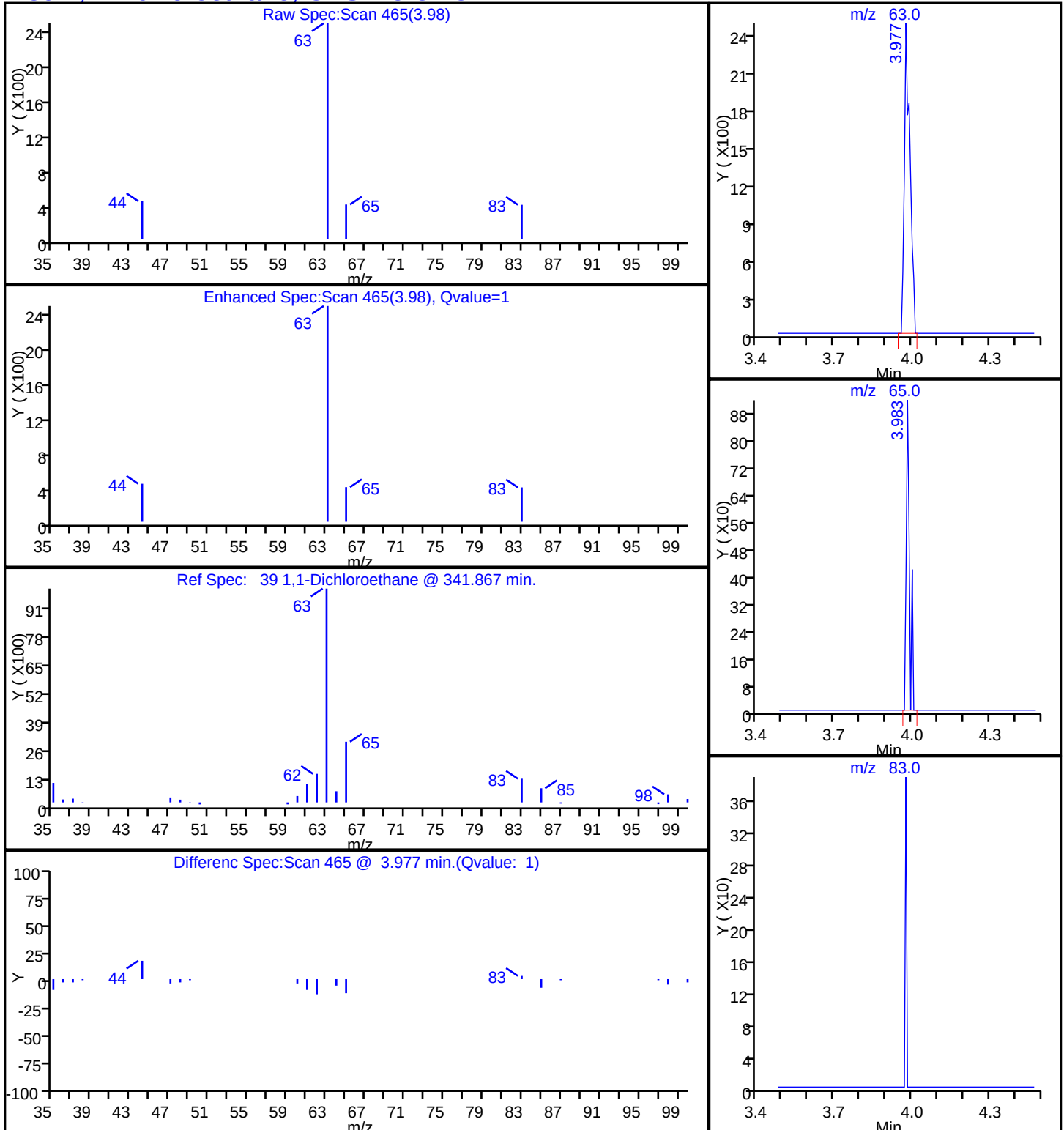
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-11A</u>	Lab Sample ID: <u>480-110191-25</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0290.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 02:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-11A Lab Sample ID: 480-110191-25
 Matrix: Water Lab File ID: S0290.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:55
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 02:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0290.D
 Lims ID: 480-110191-A-25
 Client ID: 4009-11A
 Sample Type: Client
 Inject. Date: 03-Dec-2016 02:15:30 ALS Bottle#: 45 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-25
 Misc. Info.: 480-0058844-022
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:07:45 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:08:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76078	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	151533	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	148710	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	91451	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60393	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	377163	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	89	119228	23.8	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0290.D

Injection Date: 03-Dec-2016 02:15:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-25

Lab Sample ID: 480-110191-25

Worklist Smp#: 22

Client ID: 4009-11A

Purge Vol: 5.000 mL

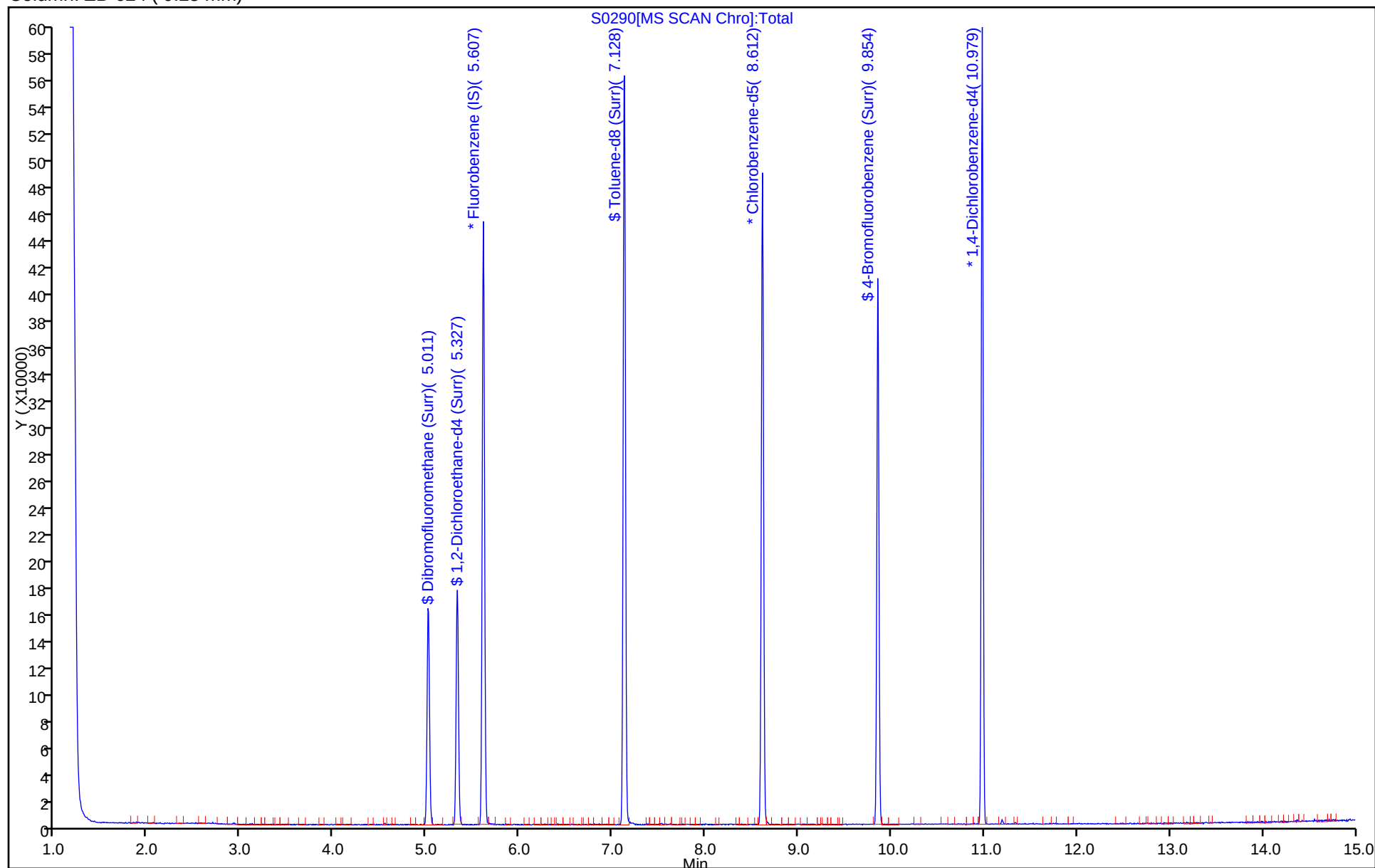
Dil. Factor: 1.0000

ALS Bottle#: 45

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>DUP-1</u>	Lab Sample ID: <u>480-110191-26</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0291.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 02:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	3.1		1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
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	9.5		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	1.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: DUP-1 Lab Sample ID: 480-110191-26
 Matrix: Water Lab File ID: S0291.D
 Analysis Method: 8260C Date Collected: 11/28/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 02:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	0.62	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0291.D
 Lims ID: 480-110191-A-26
 Client ID: DUP-1
 Sample Type: Client
 Inject. Date: 03-Dec-2016 02:38:30 ALS Bottle#: 46 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-26
 Misc. Info.: 480-0058844-023
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:09:01 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:09:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	74969	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	85	153559	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	151516	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	91699	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.321	5.327	-0.006	0	59692	26.1	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	376754	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	87	119819	23.6	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	48	18157	3.14	
45 cis-1,2-Dichloroethene	96	4.549	4.536	0.013	10	3761	1.06	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78	5.339	5.333	0.006	93	126335	9.51	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.960	5.948	0.012	44	2077	0.6184	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0291.D

Injection Date: 03-Dec-2016 02:38:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-26

Lab Sample ID: 480-110191-26

Worklist Smp#: 23

Client ID: DUP-1

Purge Vol: 5.000 mL

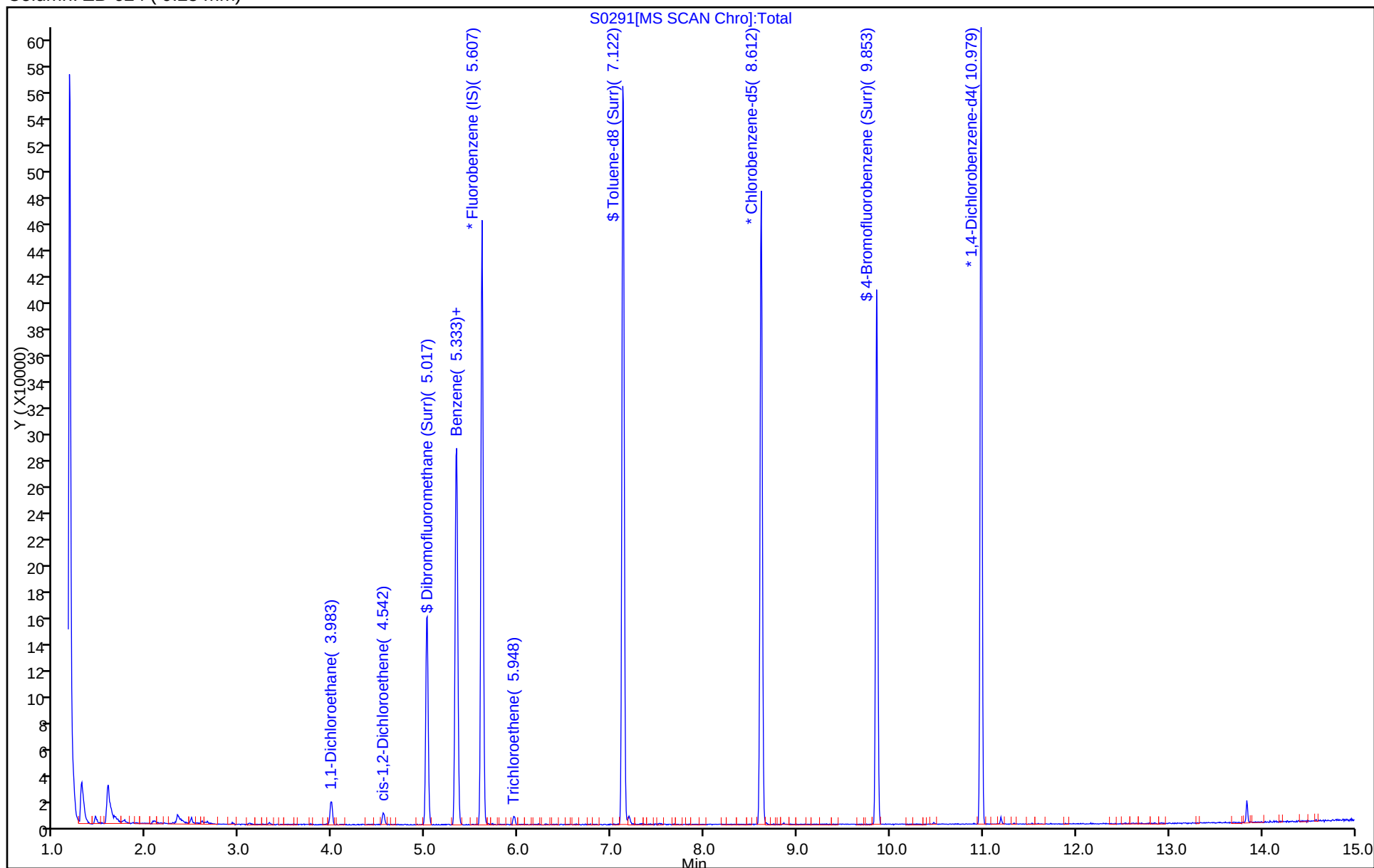
Dil. Factor: 1.0000

ALS Bottle#: 46

Method: S-8260

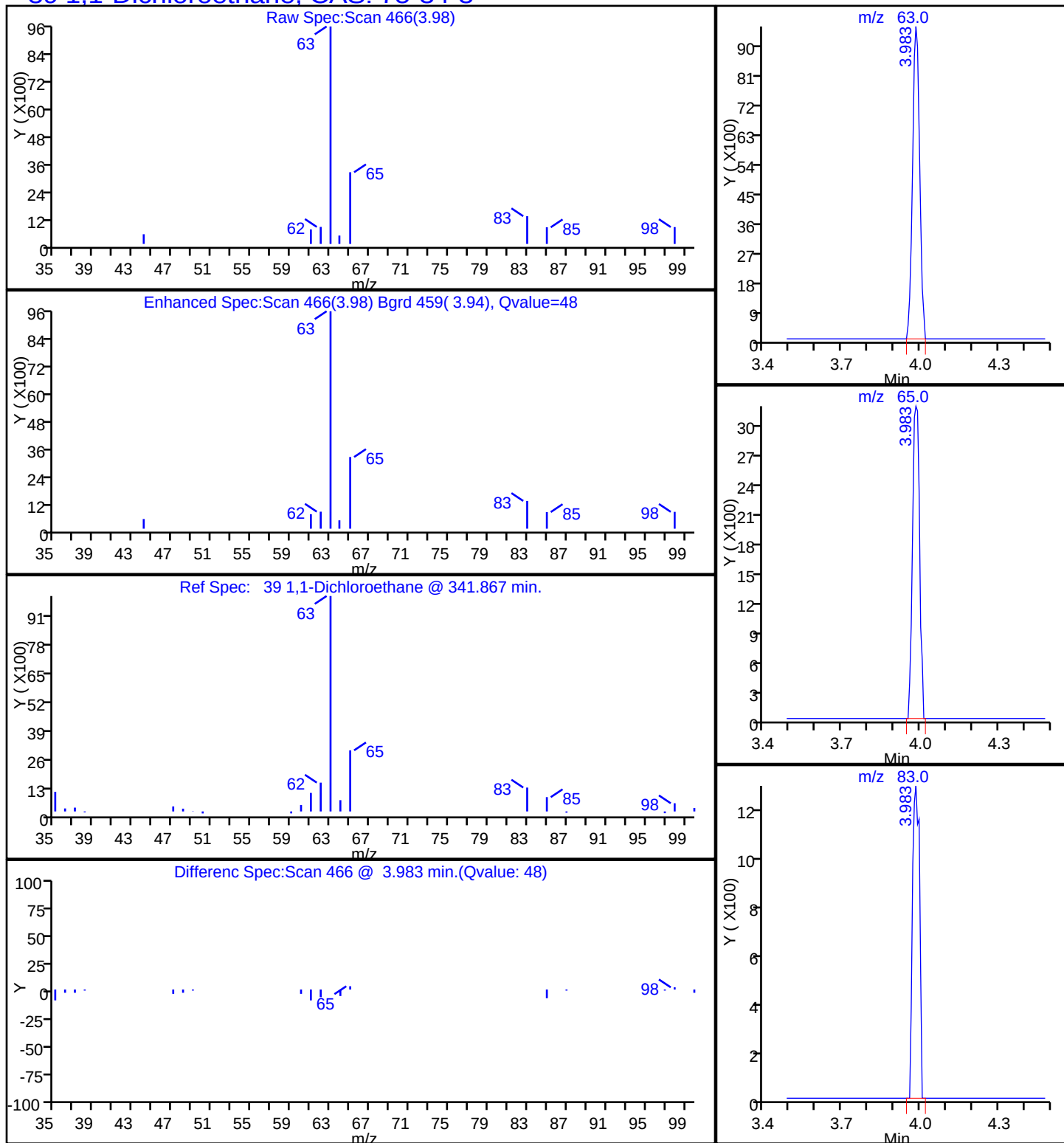
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0291.D
Injection Date: 03-Dec-2016 02:38:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-26 Lab Sample ID: 480-110191-26
Client ID: DUP-1
Operator ID: SO ALS Bottle#: 46 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0291.D

Injection Date: 03-Dec-2016 02:38:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-26

Lab Sample ID: 480-110191-26

Client ID: DUP-1

Operator ID: SO

ALS Bottle#: 46

Worklist Smp#: 23

Purge Vol: 5.000 mL

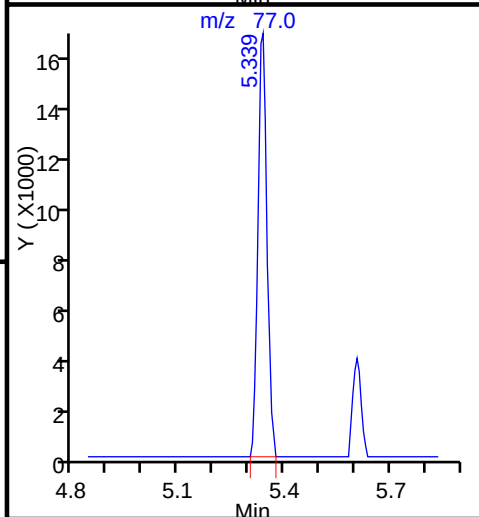
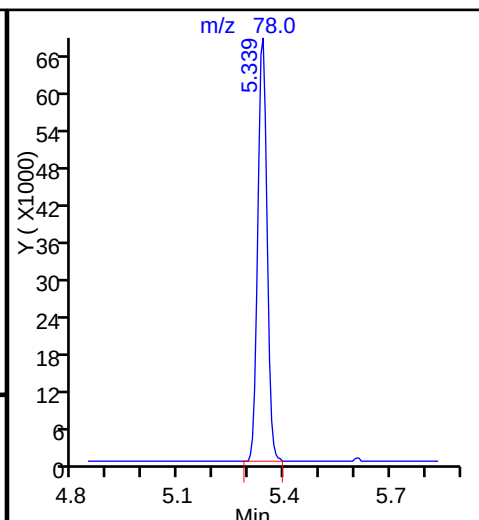
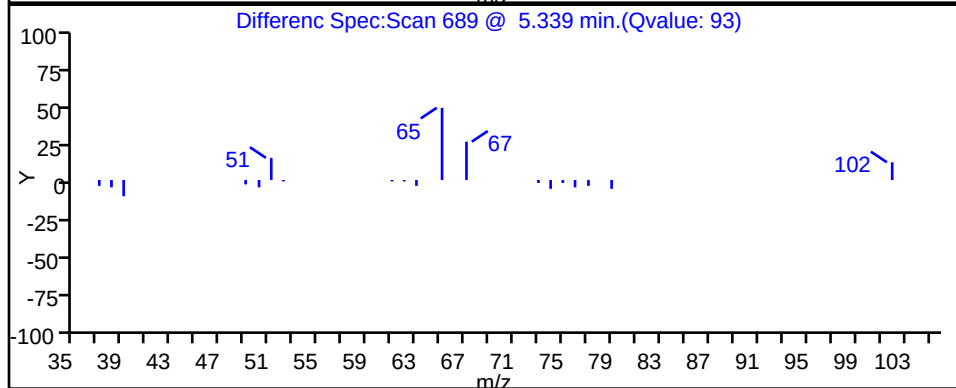
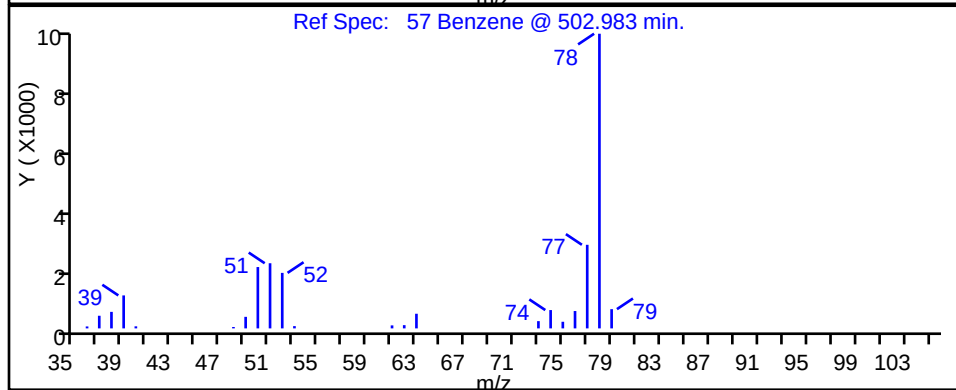
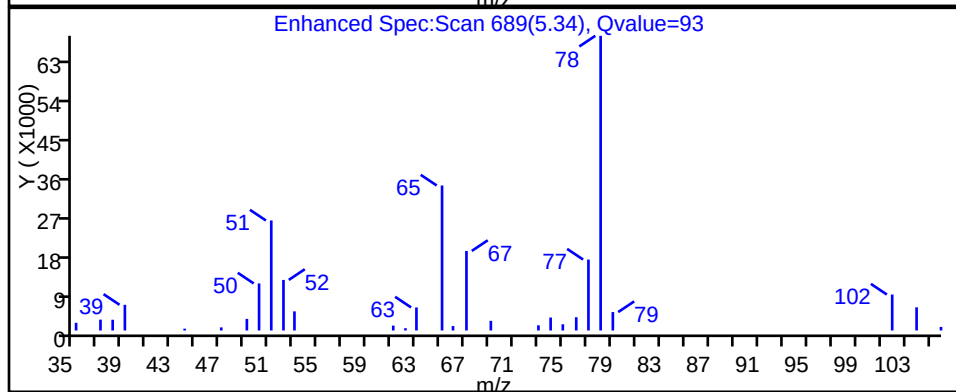
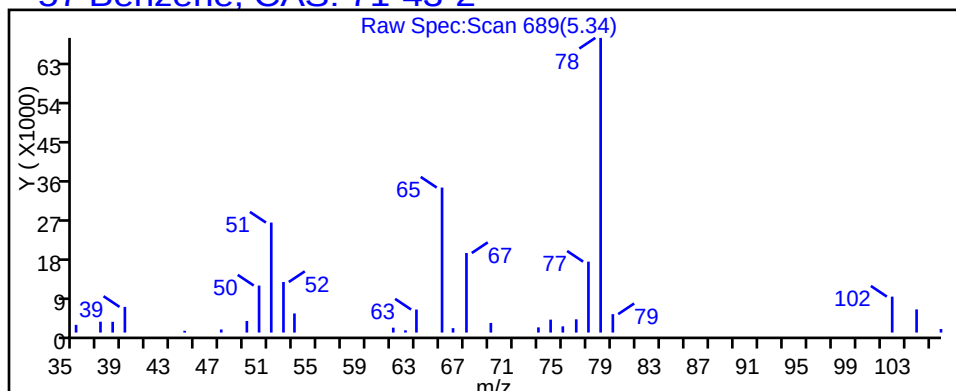
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0291.D

Injection Date: 03-Dec-2016 02:38:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-26

Lab Sample ID: 480-110191-26

Client ID: DUP-1

Operator ID: SO

ALS Bottle#: 46

Worklist Smp#: 23

Purge Vol: 5.000 mL

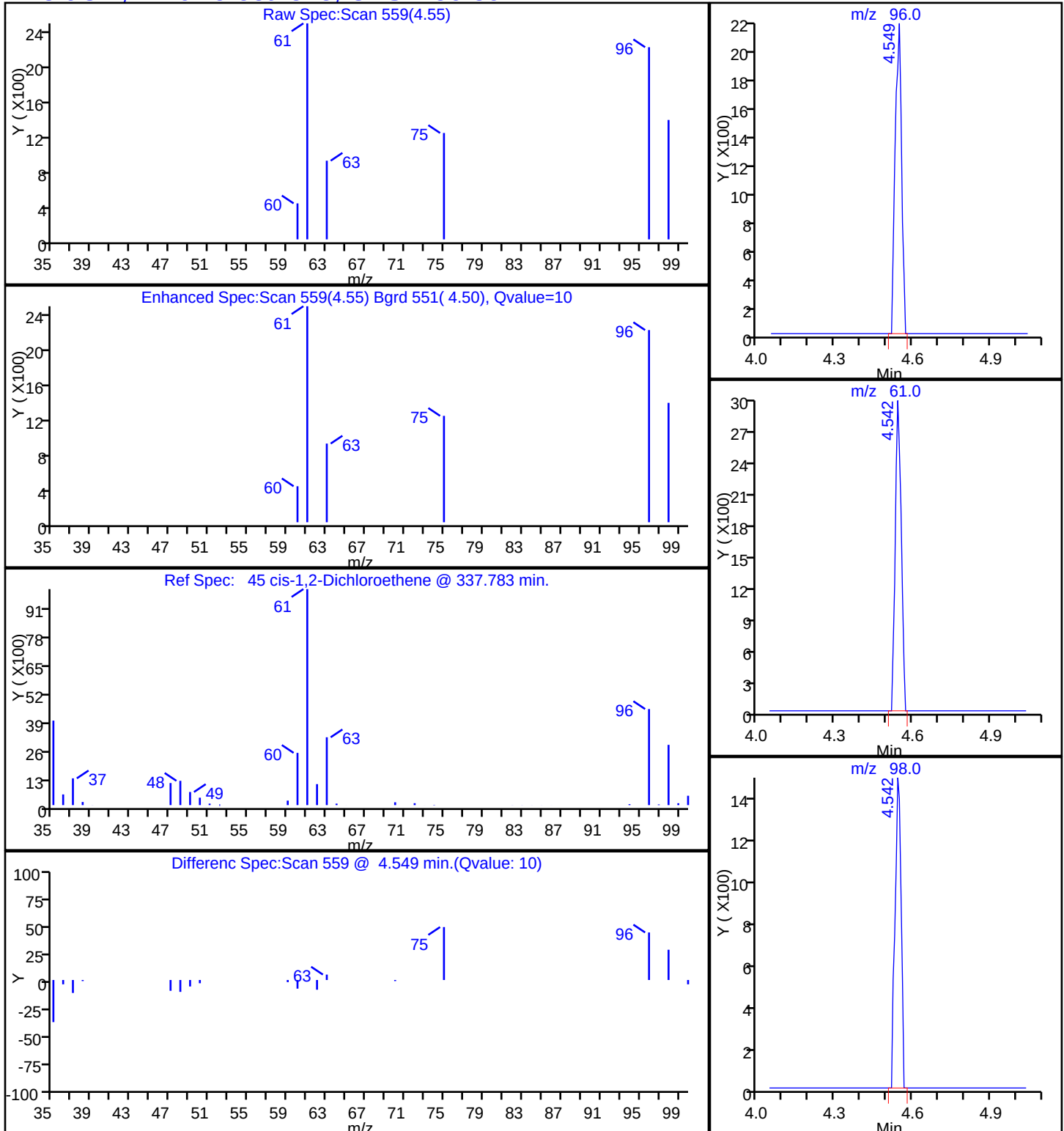
Dil. Factor: 1.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0291.D

Injection Date: 03-Dec-2016 02:38:30

Instrument ID: HP5973S

Lims ID: 480-110191-A-26

Lab Sample ID: 480-110191-26

Client ID: DUP-1

Operator ID: SO

ALS Bottle#: 46

Worklist Smp#: 23

Purge Vol: 5.000 mL

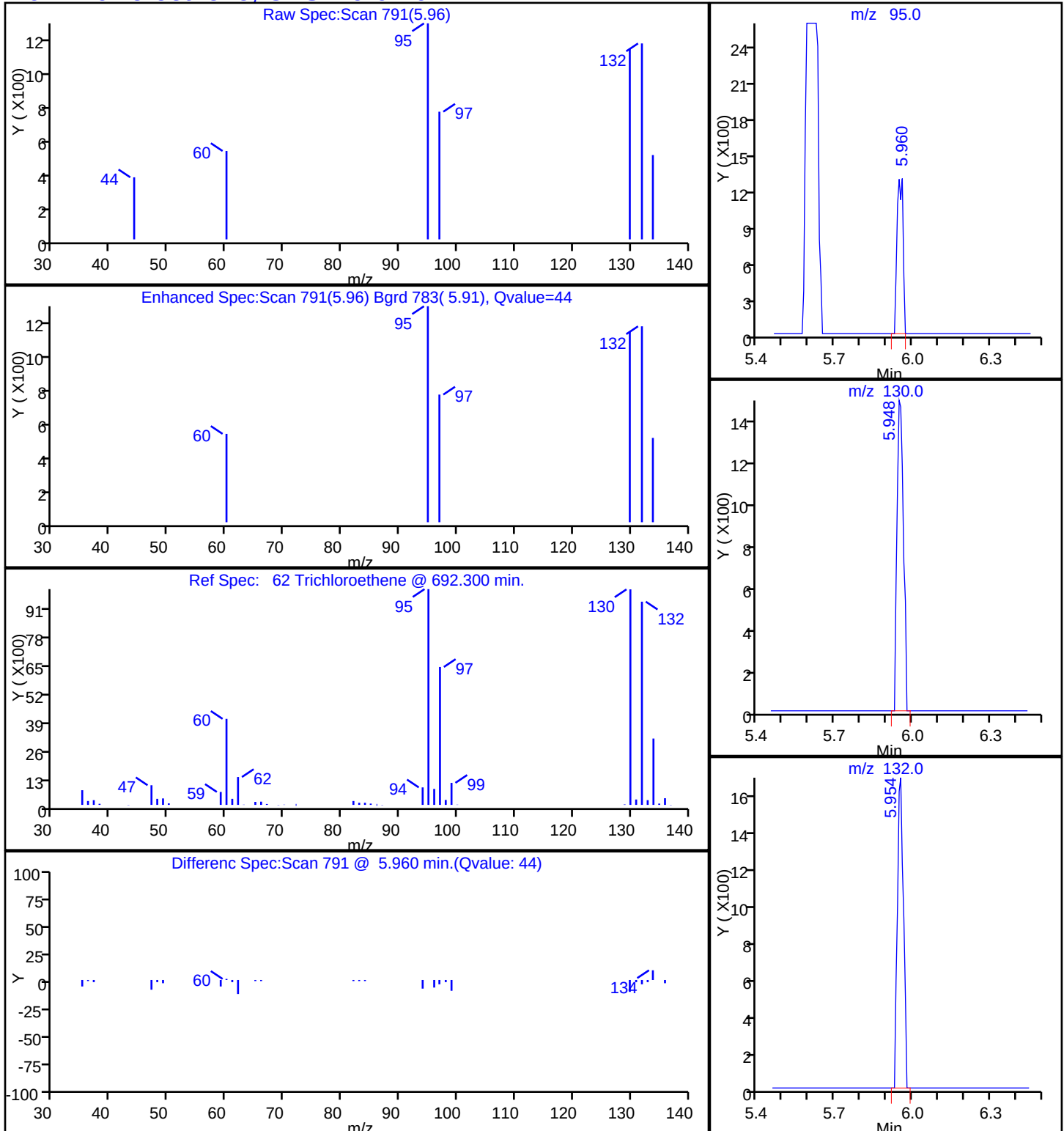
Dil. Factor: 1.0000

Method: S-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.: 480-110191-1

SDG No.: _____

Client Sample ID: DUP-2 Lab Sample ID: 480-110191-27

Matrix: Water Lab File ID: S0313.D

Analysis Method: 8260C Date Collected: 11/28/2016 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:49

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.62
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	4.0		2.0	0.76
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.58
526-73-8	1,2,3-Trimethylbenzene	2.0	U	2.0	0.52
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
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
106-46-7	1,4-Dichlorobenzene	2.0	U	2.0	1.7
78-93-3	2-Butanone (MEK)	20	U	20	2.6
591-78-6	2-Hexanone	10	U	10	2.5
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	110		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	27		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	41		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.72
110-82-7	Cyclohexane	2.0	U	2.0	0.36
124-48-1	Dibromochloromethane	2.0	U	2.0	0.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: DUP-2 Lab Sample ID: 480-110191-27
 Matrix: Water Lab File ID: S0313.D
 Analysis Method: 8260C Date Collected: 11/28/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:49
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	5.0	U	5.0	2.6
1634-04-4	Methyl tert-butyl ether	2.0	U	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
100-42-5	Styrene	2.0	U	2.0	1.5
127-18-4	Tetrachloroethene	2.0	U	2.0	0.72
108-88-3	Toluene	1.7	J	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
79-01-6	Trichloroethene	2.1		2.0	0.92
75-69-4	Trichlorofluoromethane	2.0	U	2.0	1.8
75-01-4	Vinyl chloride	2.0	U	2.0	1.8
1330-20-7	Xylenes, Total	4.0	U	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D
 Lims ID: 480-110191-B-27
 Client ID: DUP-2
 Sample Type: Client
 Inject. Date: 03-Dec-2016 13:49:30 ALS Bottle#: 68 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-110191-b-27
 Misc. Info.: 480-0058850-012
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Dec-2016 08:44:36 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: archern

Date: 05-Dec-2016 08:44:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77510	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	157272	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	154867	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.017	-0.006	56	93238	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	59443	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	388338	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	88	121317	23.3	
10 Dichlorodifluoromethane	85		1.324				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.604				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64	2.036	2.024	0.012	70	26184	13.7	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.809				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.222				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.551				ND	
39 1,1-Dichloroethane	63	3.977	3.977	0.000	34	12084	2.02	
45 cis-1,2-Dichloroethene	96	4.543	4.542	0.001	80	74552	20.3	
43 2-Butanone (MEK)	43		4.579				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.981				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.120				ND	
57 Benzene	78	5.333	5.333	0.000	97	788657	57.4	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95	5.948	5.948	0.000	50	3730	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92	7.189	7.189	0.000	71	7707	0.8587	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.255				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.918				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.028				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.743				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Worklist Smp#: 12

Client ID: DUP-2

Purge Vol: 5.000 mL

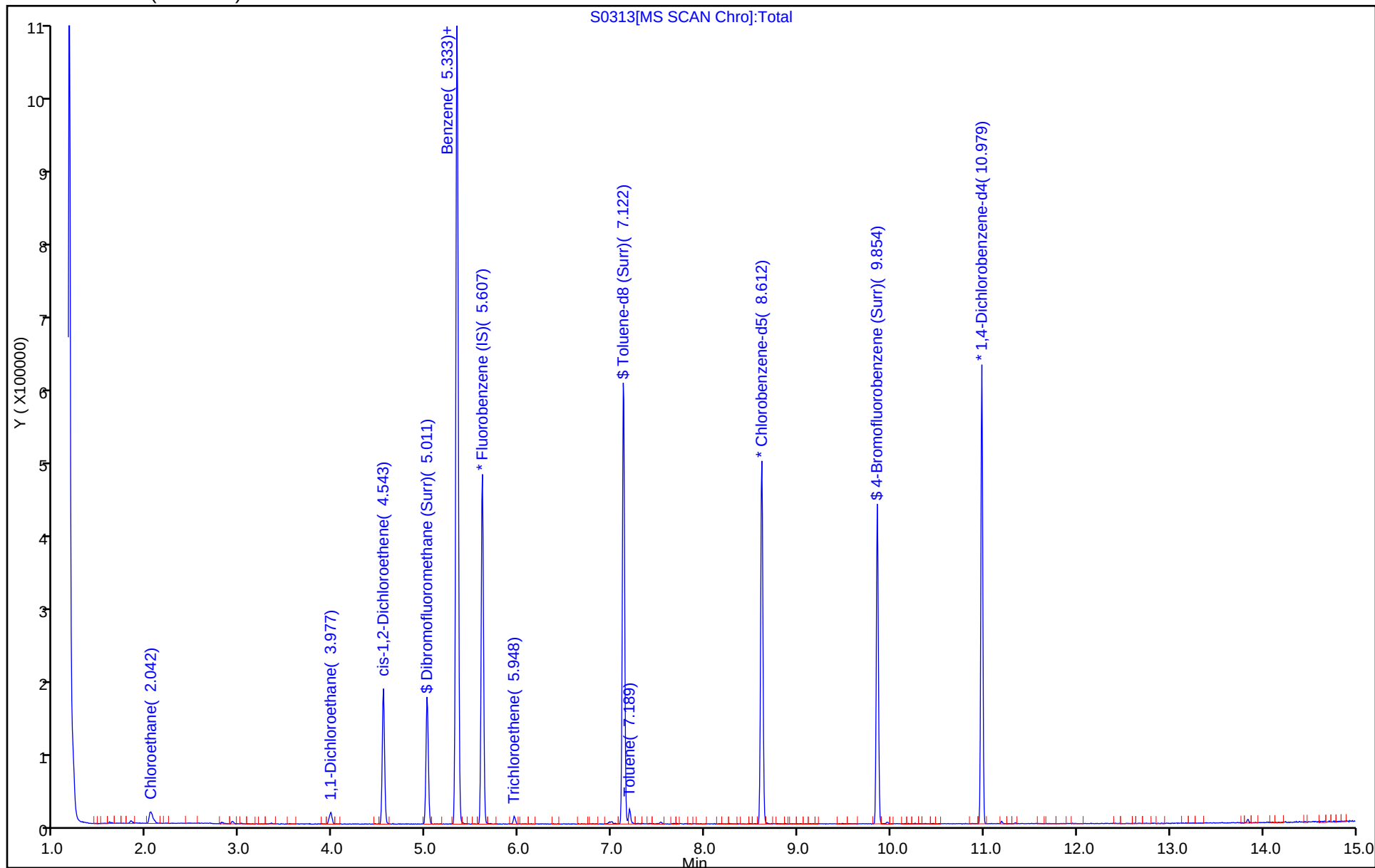
Dil. Factor: 2.0000

ALS Bottle#: 68

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Client ID: DUP-2

Operator ID: GTG

ALS Bottle#: 68

Worklist Smp#: 12

Purge Vol: 5.000 mL

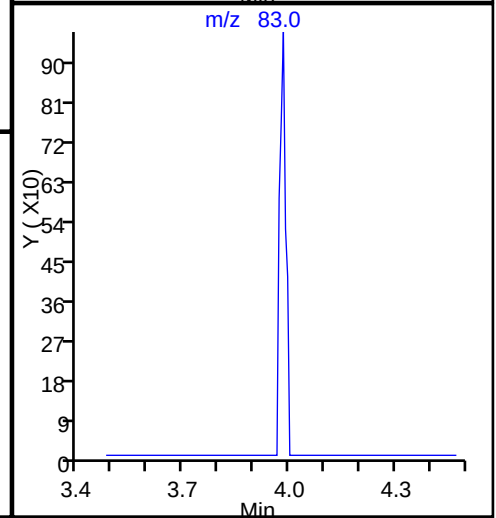
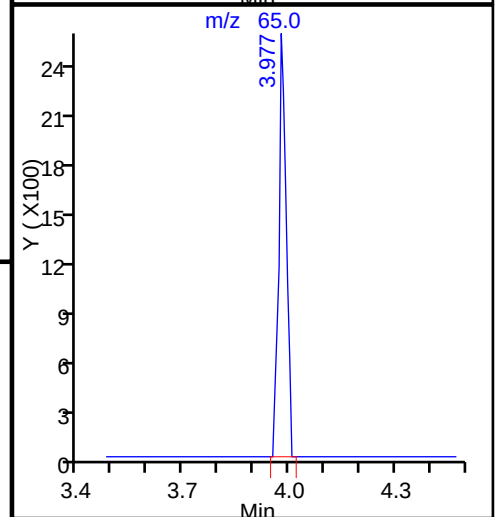
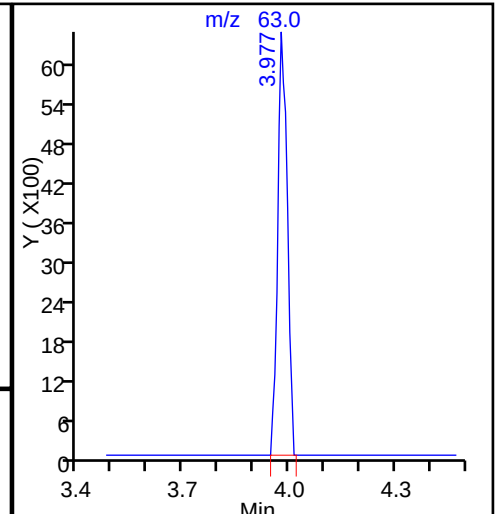
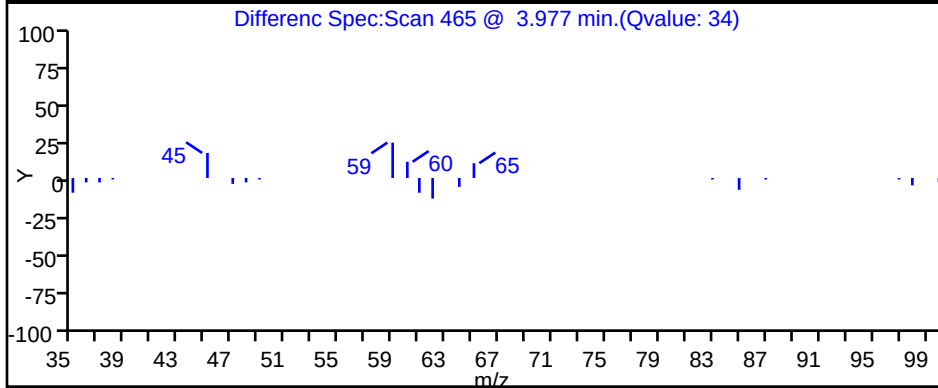
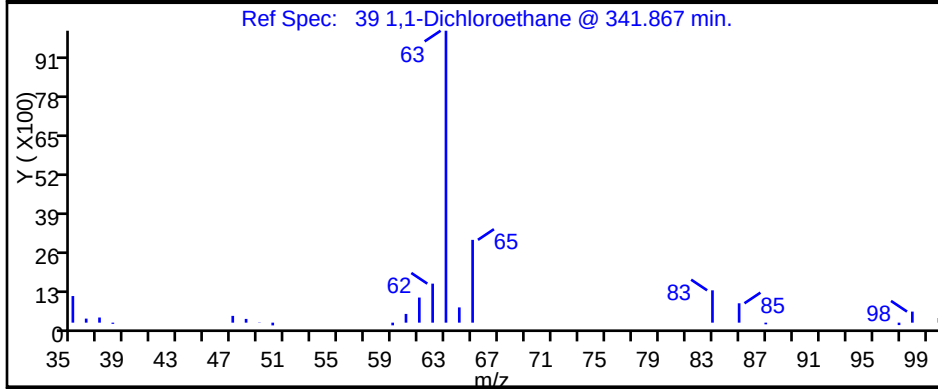
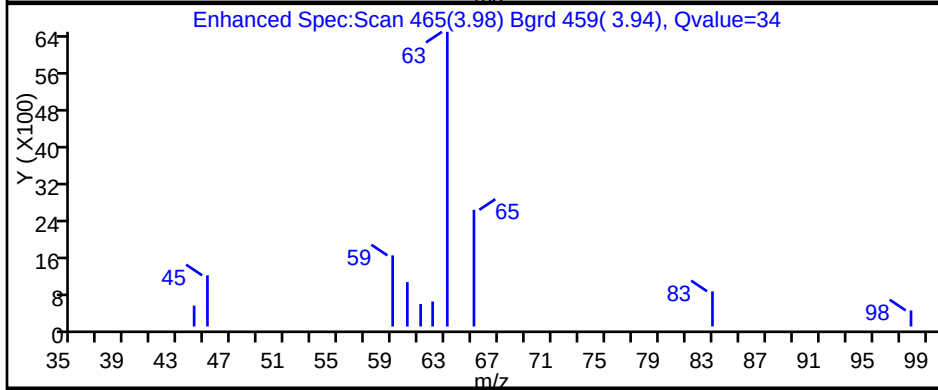
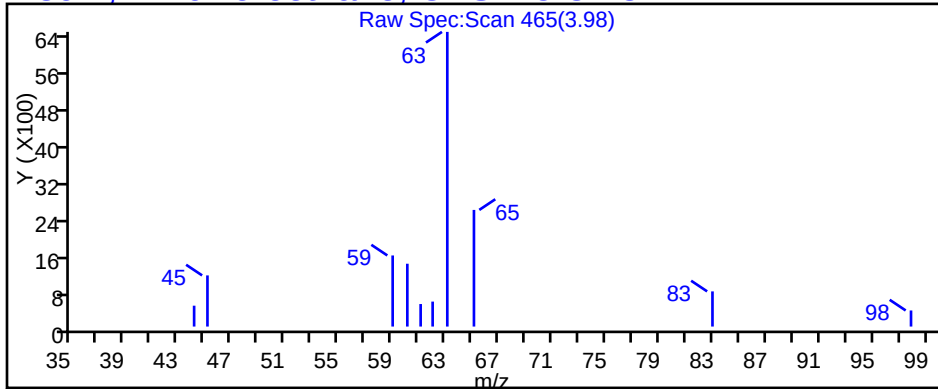
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Client ID: DUP-2

Operator ID: GTG

ALS Bottle#: 68

Worklist Smp#: 12

Purge Vol: 5.000 mL

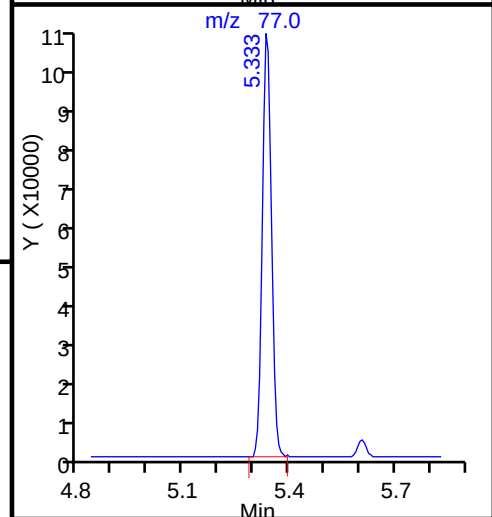
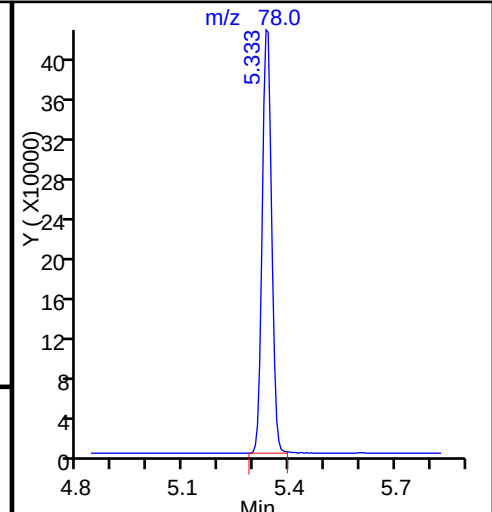
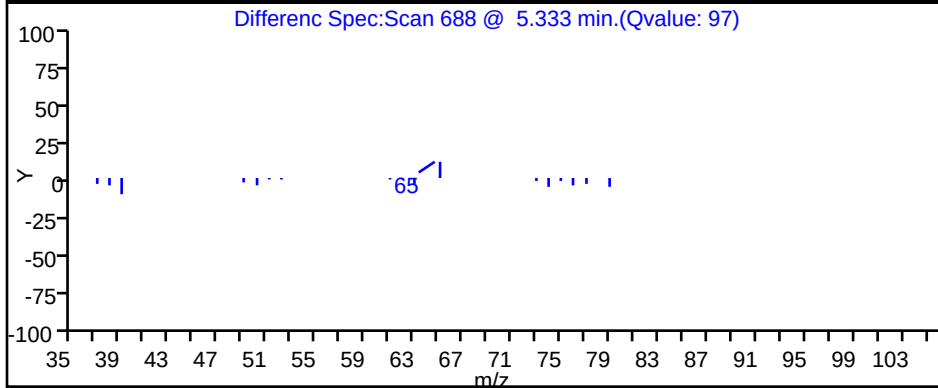
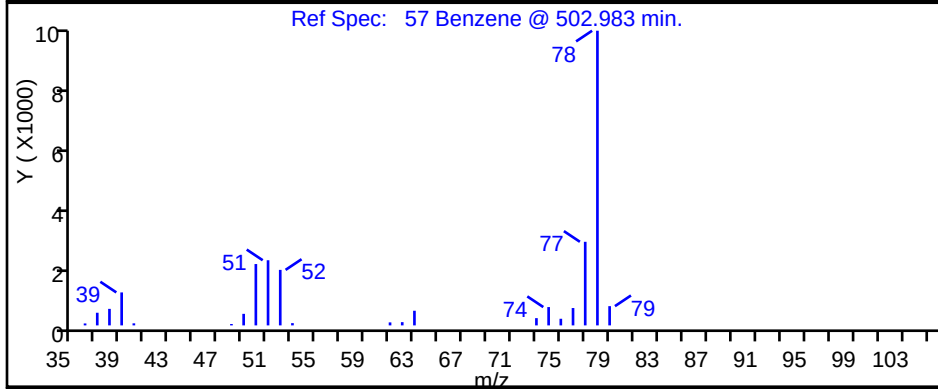
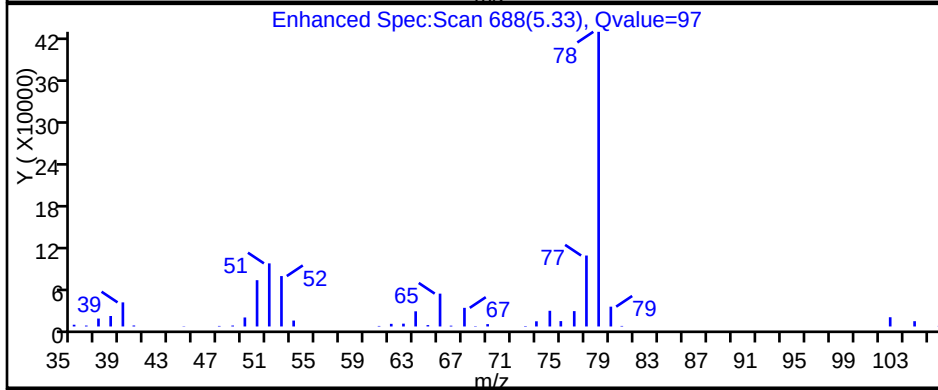
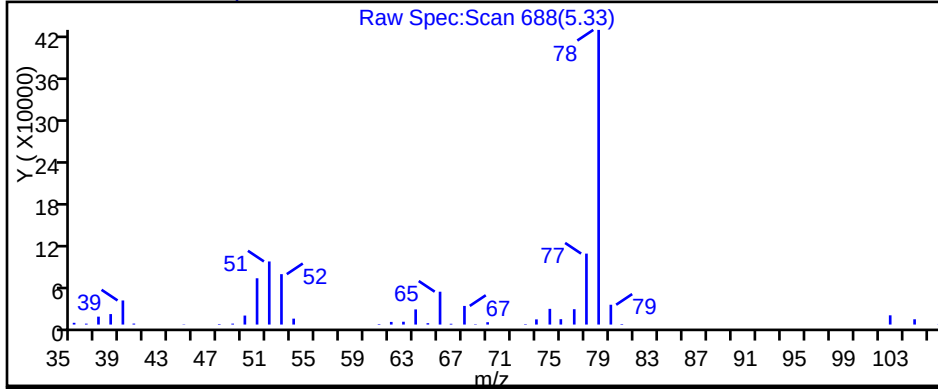
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Client ID: DUP-2

Operator ID: GTG

ALS Bottle#: 68

Worklist Smp#: 12

Purge Vol: 5.000 mL

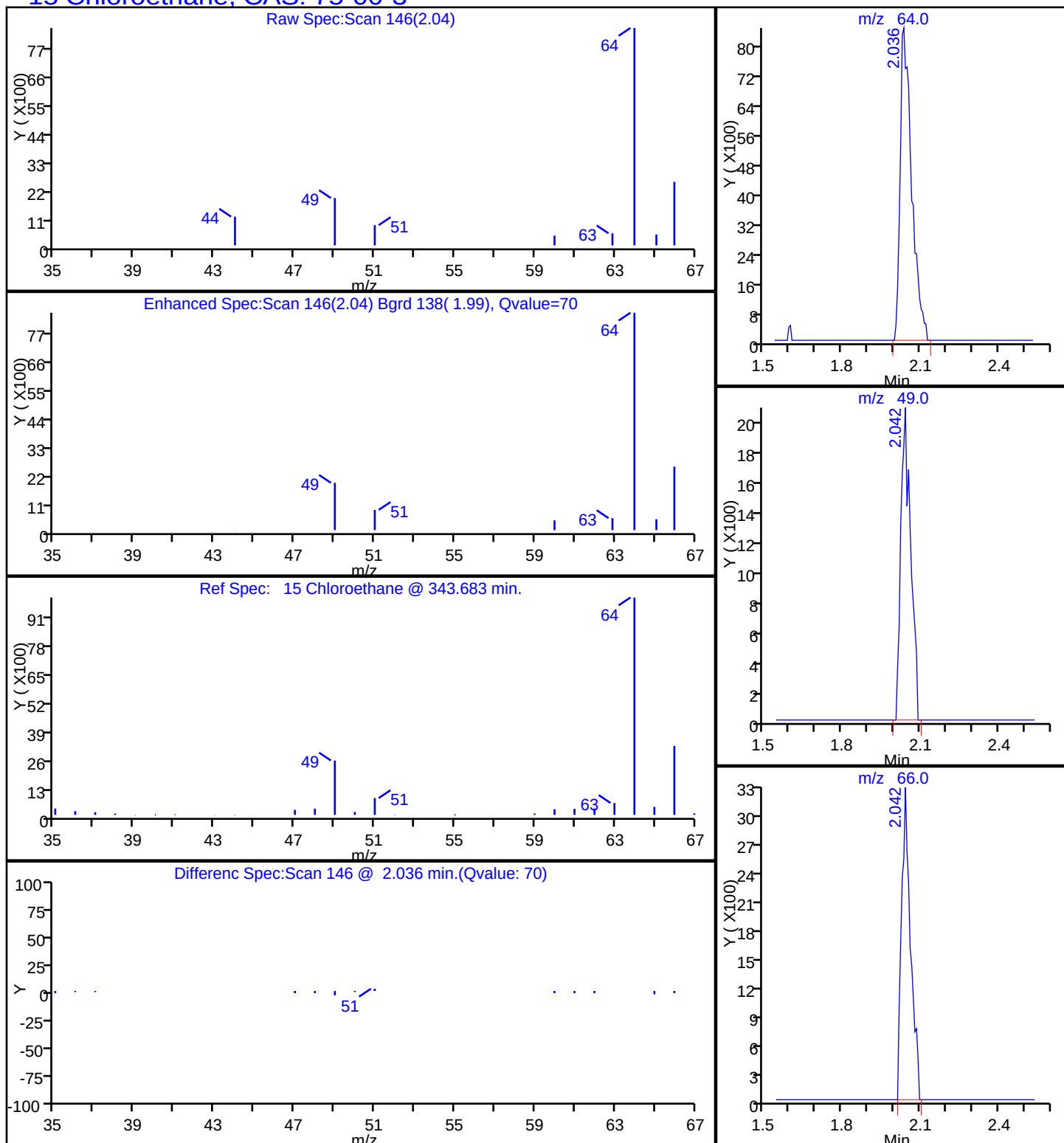
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Client ID: DUP-2

Operator ID: GTG

ALS Bottle#: 68

Worklist Smp#: 12

Purge Vol: 5.000 mL

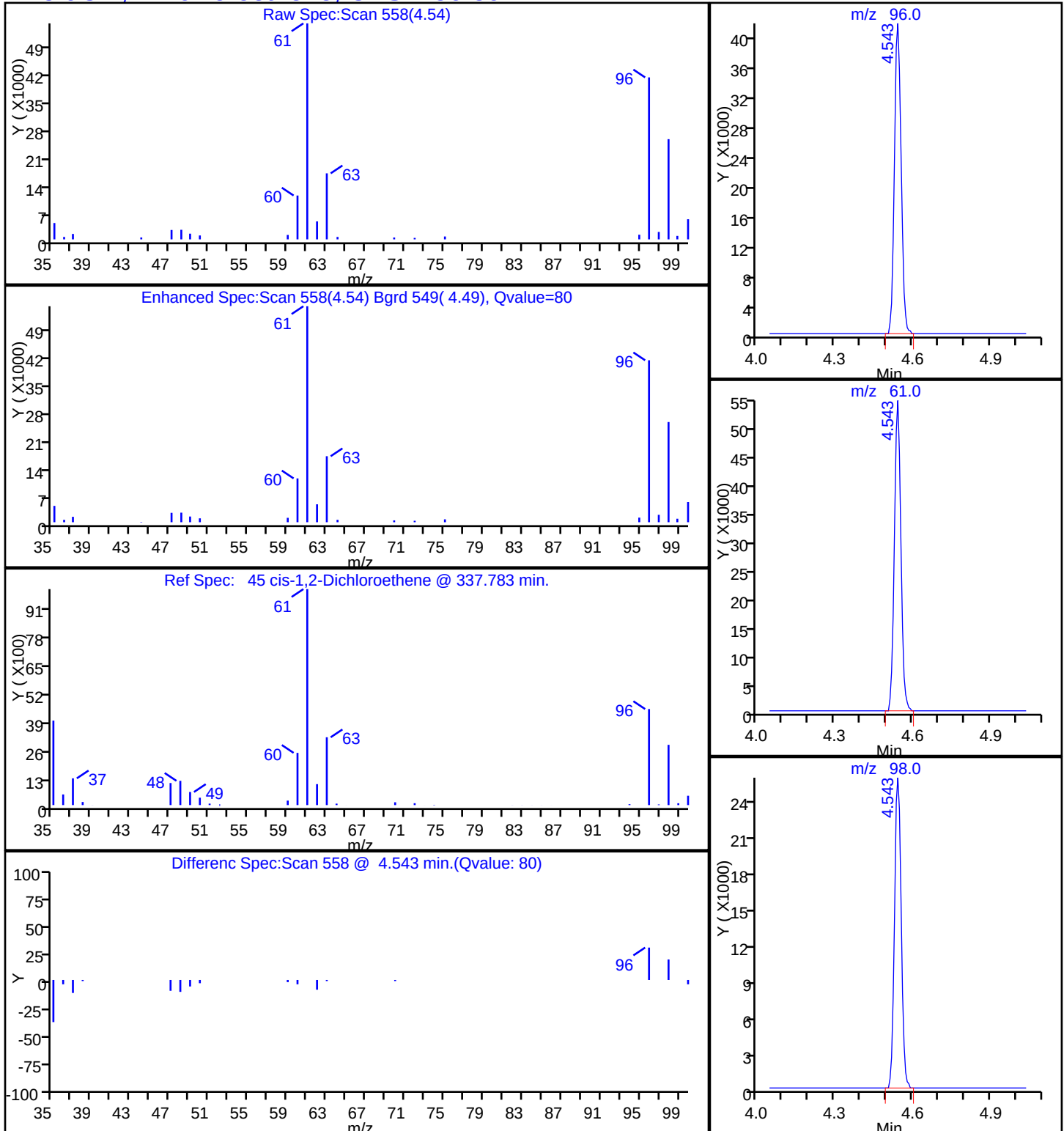
Dil. Factor: 2.0000

Method: S-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: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Client ID: DUP-2

Operator ID: GTG

ALS Bottle#: 68

Worklist Smp#: 12

Purge Vol: 5.000 mL

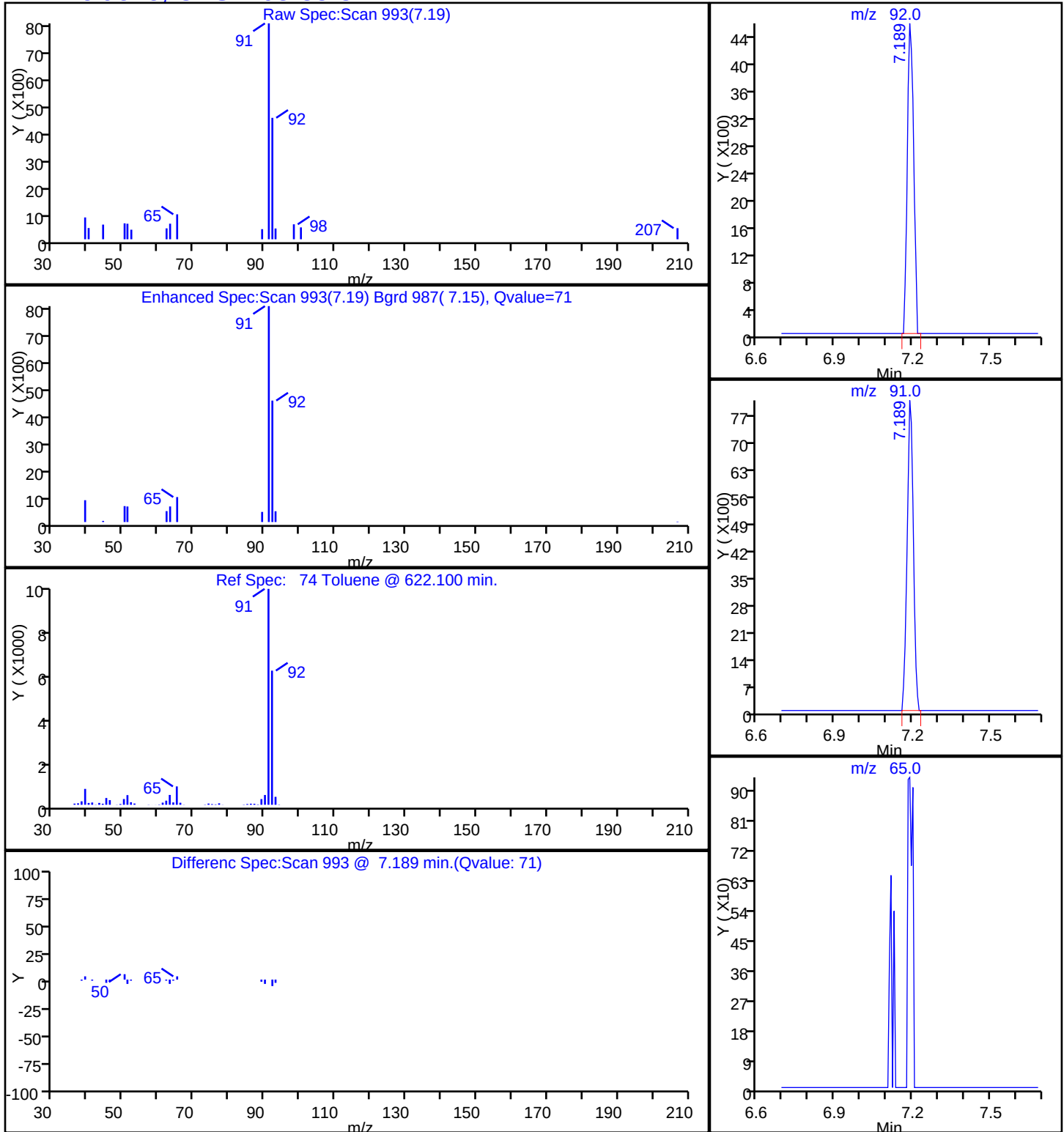
Dil. Factor: 2.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0313.D

Injection Date: 03-Dec-2016 13:49:30

Instrument ID: HP5973S

Lims ID: 480-110191-B-27

Lab Sample ID: 480-110191-27

Client ID: DUP-2

Operator ID: GTG

ALS Bottle#: 68

Worklist Smp#: 12

Purge Vol: 5.000 mL

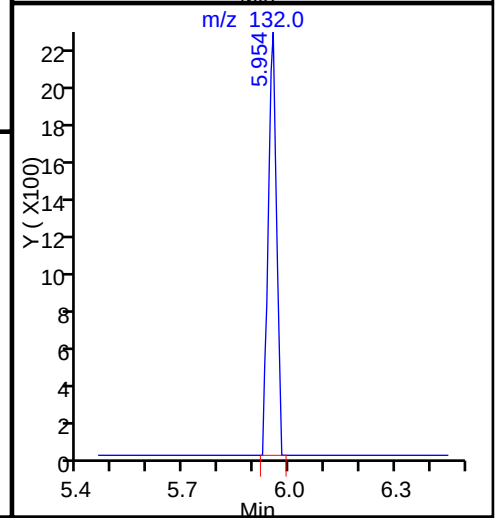
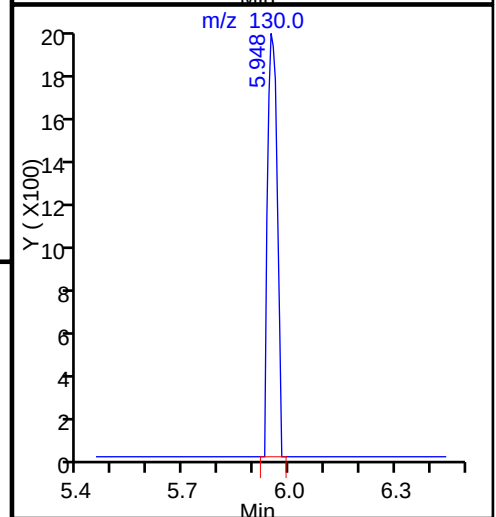
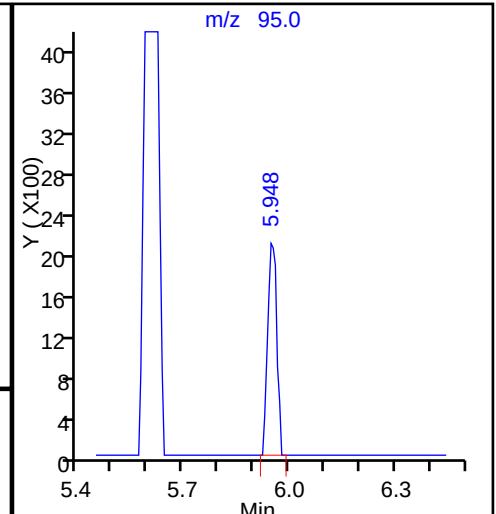
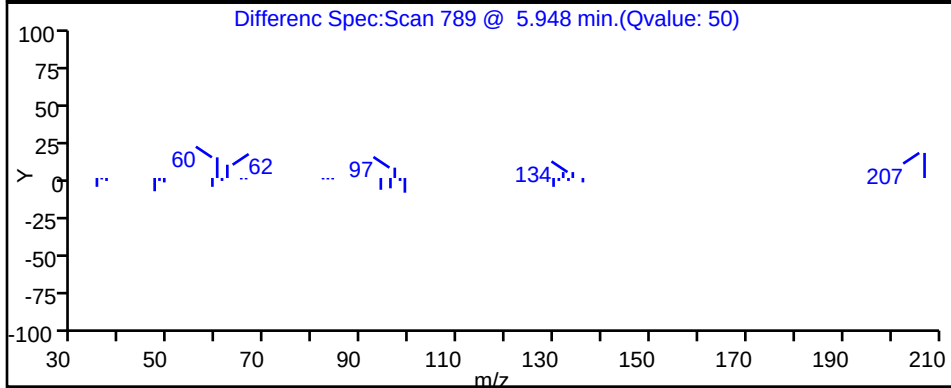
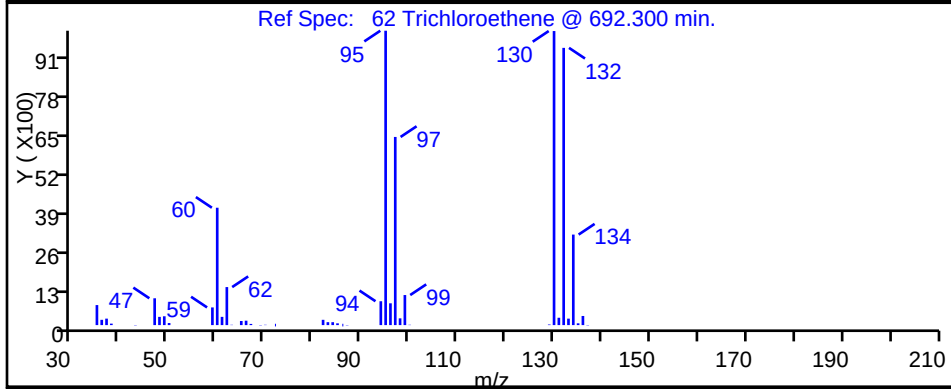
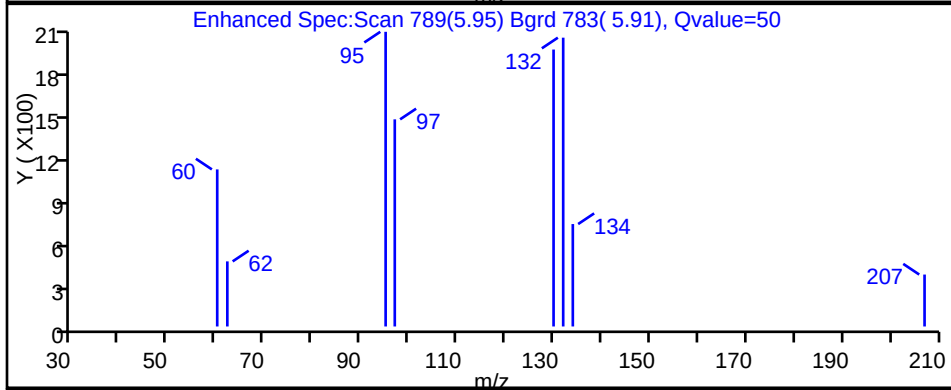
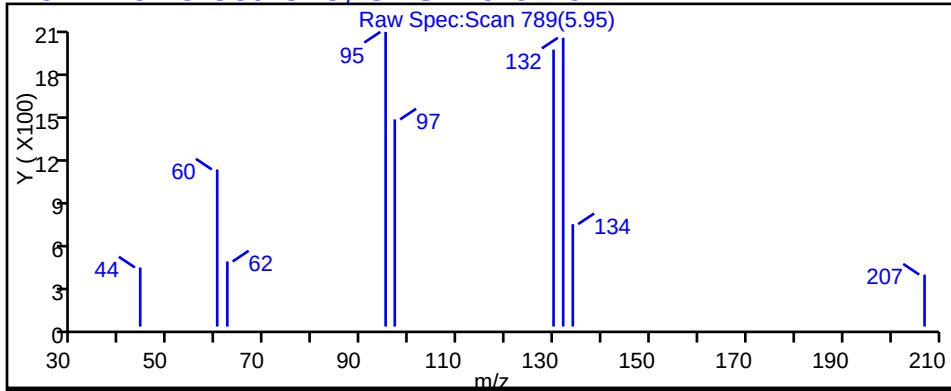
Dil. Factor: 2.0000

Method: S-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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>FIELD BLANK</u>	Lab Sample ID: <u>480-110191-28</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0293.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 15:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 03:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: FIELD BLANK Lab Sample ID: 480-110191-28
 Matrix: Water Lab File ID: S0293.D
 Analysis Method: 8260C Date Collected: 11/28/2016 15:35
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 03:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0293.D
 Lims ID: 480-110191-A-28
 Client ID: FIELD BLANK
 Sample Type: Client
 Inject. Date: 03-Dec-2016 03:24:30 ALS Bottle#: 48 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-28
 Misc. Info.: 480-0058844-025
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:09:01 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:09:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	74912	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	154559	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	149627	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	90450	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60163	26.3	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	383027	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	118387	23.1	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0293.D

Injection Date: 03-Dec-2016 03:24:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-28

Lab Sample ID: 480-110191-28

Worklist Smp#: 25

Client ID: FIELD BLANK

Purge Vol: 5.000 mL

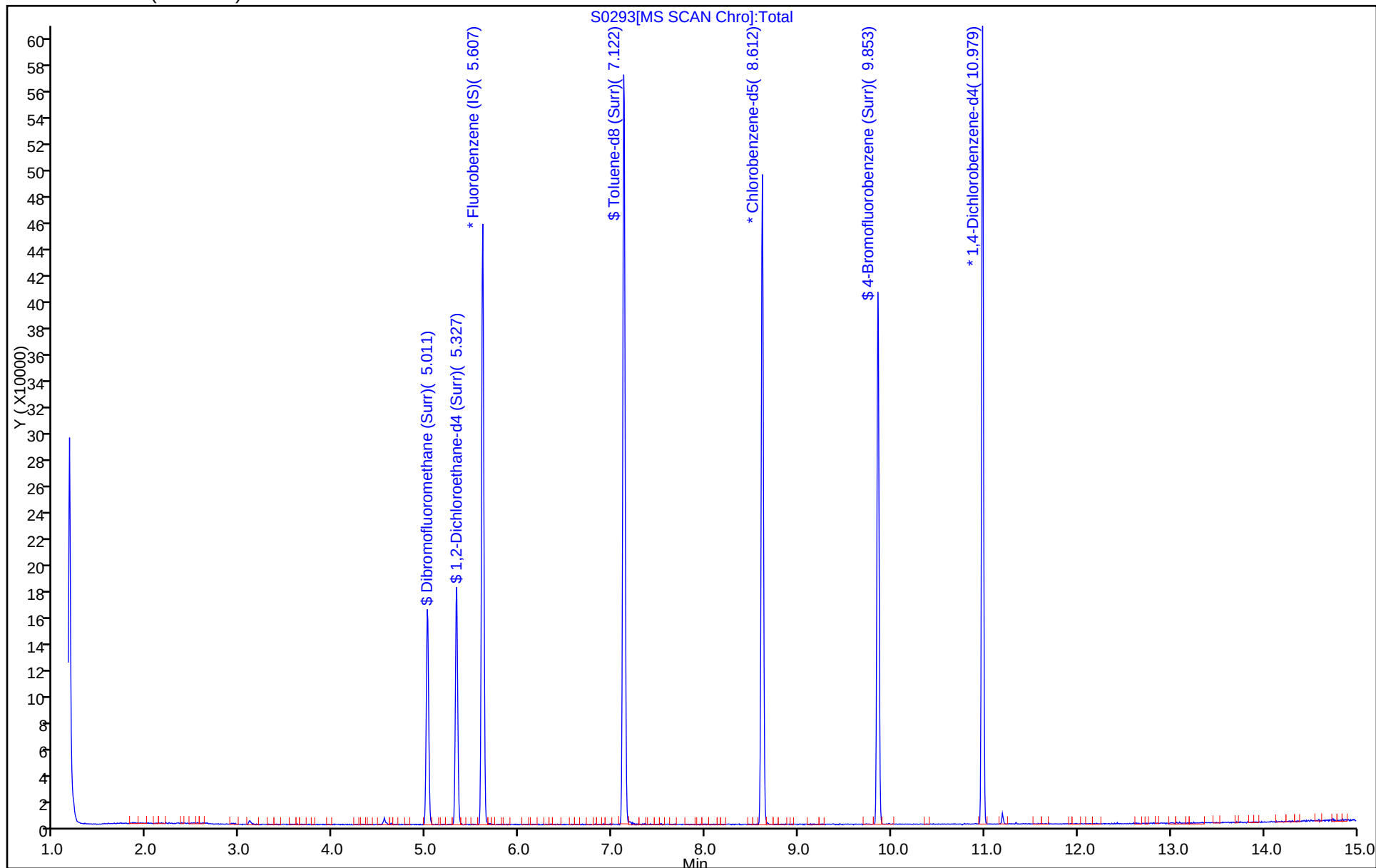
Dil. Factor: 1.0000

ALS Bottle#: 48

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-110191-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0294.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 03:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-110191-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0294.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 03:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0294.D
 Lims ID: 480-110191-A-29
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 03-Dec-2016 03:47:30 ALS Bottle#: 49 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-29
 Misc. Info.: 480-0058844-026
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:09:01 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:09:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76092	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	150546	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	148263	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	54	90947	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	58501	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	376704	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	116723	23.4	
10 Dichlorodifluoromethane	85		1.318				ND	
12 Chloromethane	50		1.501				ND	
13 Vinyl chloride	62		1.598				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		2.042				ND	
17 Trichlorofluoromethane	101		2.267				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797				ND	
22 1,1-Dichloroethene	96		2.803				ND	
23 Acetone	43		2.912				ND	
26 Carbon disulfide	76		3.009				ND	
27 Methyl acetate	43		3.216				ND	
30 Methylene Chloride	84		3.338				ND	
32 Methyl tert-butyl ether	73		3.539				ND	
34 trans-1,2-Dichloroethene	96		3.557				ND	
39 1,1-Dichloroethane	63		3.977				ND	
45 cis-1,2-Dichloroethene	96		4.536				ND	
43 2-Butanone (MEK)	43		4.573				ND	
50 Chloroform	83		4.853				ND	
51 1,1,1-Trichloroethane	97		4.974				ND	
52 Cyclohexane	56		4.987				ND	
55 Carbon tetrachloride	117		5.114				ND	
57 Benzene	78		5.333				ND	
58 1,2-Dichloroethane	62		5.394				ND	
62 Trichloroethene	95		5.948				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.076				ND	
65 1,2-Dichloropropane	63		6.185				ND	
68 Dichlorobromomethane	83		6.477				ND	
72 cis-1,3-Dichloropropene	75		6.897				ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037				ND	
74 Toluene	92		7.189				ND	
77 trans-1,3-Dichloropropene	75		7.463				ND	
79 1,1,2-Trichloroethane	83		7.651				ND	
81 Tetrachloroethene	166		7.724				ND	
80 2-Hexanone	43		7.876				ND	
83 Chlorodibromomethane	129		8.053				ND	
84 Ethylene Dibromide	107		8.162				ND	
87 Chlorobenzene	112		8.643				ND	
88 Ethylbenzene	91		8.734				ND	
90 m-Xylene & p-Xylene	106		8.856				ND	
91 o-Xylene	106		9.282				ND	
92 Styrene	104		9.312				ND	
95 Bromoform	173		9.555				ND	
94 Isopropylbenzene	105		9.665				ND	
97 1,1,2,2-Tetrachloroethane	83		10.048				ND	
102 1,3,5-Trimethylbenzene	105		10.261				ND	
107 1,2,4-Trimethylbenzene	105		10.626				ND	
111 1,3-Dichlorobenzene	146		10.912				ND	
113 1,4-Dichlorobenzene	146		11.003				ND	
112 1,2,3-Trimethylbenzene	105		11.027				ND	
116 1,2-Dichlorobenzene	146		11.350				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068				ND	
119 1,2,4-Trichlorobenzene	180		12.749				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0294.D

Injection Date: 03-Dec-2016 03:47:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-29

Lab Sample ID: 480-110191-29

Worklist Smp#: 26

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

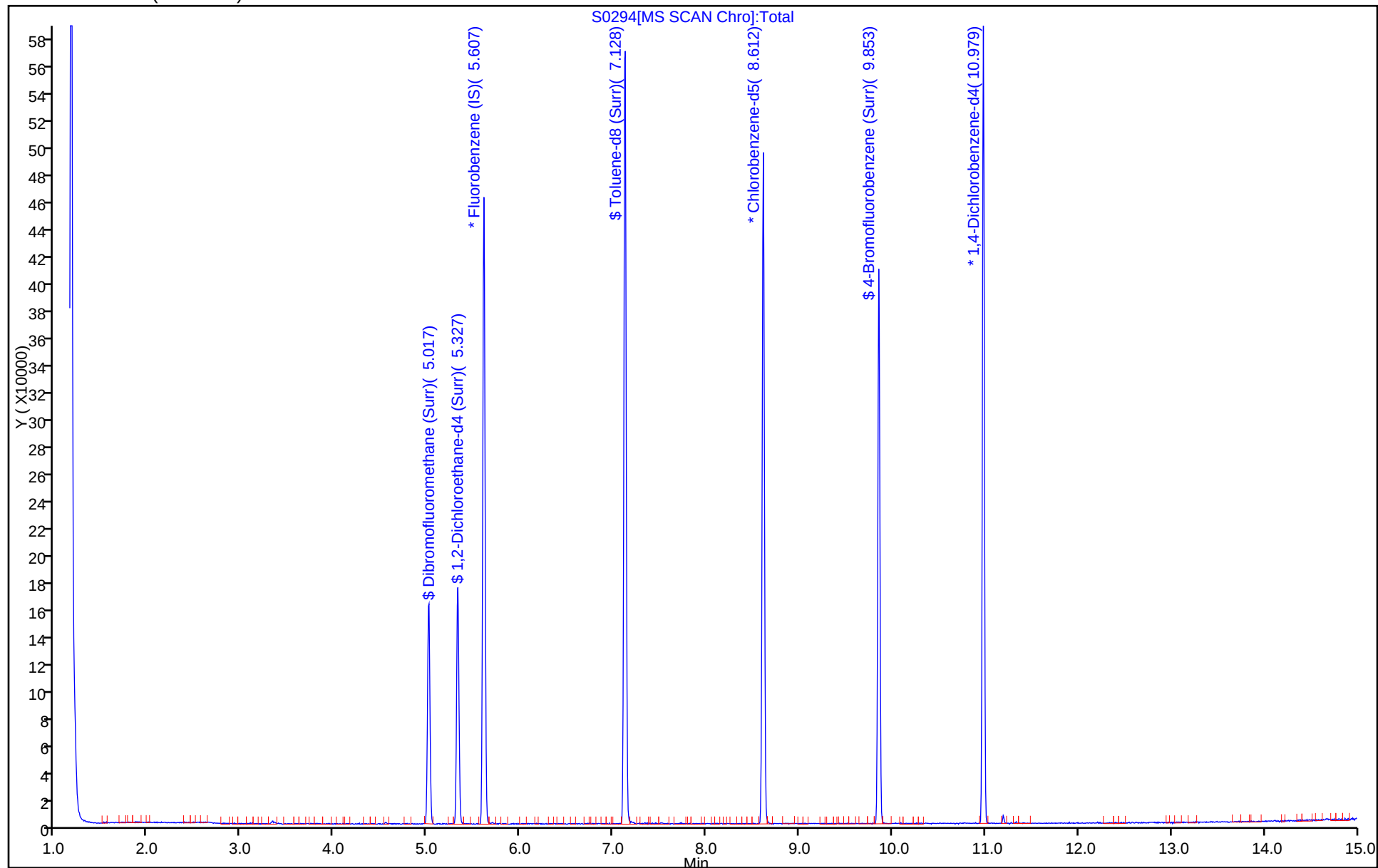
Dil. Factor: 1.0000

ALS Bottle#: 49

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-330658/4	S9064.D
Level 2	IC 480-330658/5	S9065.D
Level 3	IC 480-330658/6	S9066.D
Level 4	IC 480-330658/7	S9067.D
Level 5	IC 480-330658/8	S9068.D
Level 6	ICIS 480-330658/9	S9069.D
Level 7	IC 480-330658/10	S9070.D
Level 8	IC 480-330658/11	S9071.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.9386 1.1082	0.6816 1.0464	0.8998 1.0454	1.0170	0.9885	Ave		0.9657			0.1000	13.7		20.0			
Chloromethane	0.9296 1.1800	0.9075 1.1062	1.0537 1.1013	1.1627	1.1238	Ave		1.0706			0.1000	9.5		20.0			
Vinyl chloride	0.9632 1.1513	0.7116 1.0781	0.8584 1.0838	1.1101	1.0316	Ave		0.9985			0.1000	14.8		20.0			
Butadiene	++++ 1.0717	0.5439 1.0315	0.6671 0.9994	0.9569	0.9127	Lin1	-0.530	1.0249							0.9990		0.9900
Bromomethane	++++ 0.6131	0.6379 0.5949	0.5793 0.6437	0.6520	0.5572	Ave		0.6112			0.1000	5.8		20.0			
Chloroethane	++++ 0.6747	0.5002 0.6593	0.5879 0.6559	0.6274	0.6130	Ave		0.6169			0.1000	9.6		20.0			
Dichlorofluoromethane	2.0182 1.8182	1.7110 1.7194	1.6373 1.7198	1.7963	1.7407	Ave		1.7701				6.5		20.0			
Trichlorofluoromethane	++++ 1.4564	0.7280 1.3819	1.0444 1.4487	1.3282	1.3435	Lin1	-0.730	1.4424			0.1000				0.9990		0.9900
Ethyl ether	0.9708 1.0039	0.9097 0.9800	0.9464 0.9416	0.9774	1.0081	Ave		0.9672				3.4		20.0			
Acrolein	0.2409 0.1913	0.2050 0.1856	0.1916 0.1830	0.1991	0.1891	Ave		0.1982				9.4		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.0321	0.3902 0.9809	0.7320 0.9781	0.8986	0.9909	Lin1	-0.525	0.9979			0.1000				0.9990		0.9900
1,1-Dichloroethene	0.7555 1.0970	0.7422 1.0284	0.9407 1.0783	1.0285	1.0484	Ave		0.9649			0.1000	14.6		20.0			
Acetone	0.5269 0.3924	0.4819 0.3687	0.4216 0.3587	0.4096	0.3983	Ave		0.4198			0.1000	13.7		20.0			
Iodomethane	++++ 1.5636	0.8750 1.5163	1.0814 1.5651	1.3324	1.3243	Lin1	-0.877	1.5570							0.9990		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	3.6896 3.3185	2.8546 3.2062	3.0337 3.1639	3.1892	3.2458	Ave		3.2127			0.1000	7.5		20.0			
Allyl chloride	1.7831 1.5010	1.3395 1.4437	1.5372 1.3746	1.4603	1.5023	Ave		1.4927				9.0		20.0			
Methyl acetate	1.0848 0.9443	0.9072 0.9119	0.9367 0.8628	0.9329	0.9436	Ave		0.9405			0.1000	6.8		20.0			
Methylene Chloride	4.3879 1.2031	2.8171 1.1280	1.8383 1.1062	1.3760	1.3732	Lin1	1.6585	1.1014			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1628 0.1737	0.1370 0.1636	0.1612 0.1591	0.1568	0.1692	Ave		0.1604				6.8		20.0			
Methyl tert-butyl ether	3.7956 3.4978	3.1479 3.4105	3.3862 3.3317	3.4486	3.5305	Ave		3.4436			0.1000	5.4		20.0			
trans-1,2-Dichloroethene	1.2210 1.1301	0.8384 1.0928	1.0022 1.0636	1.0758	1.0716	Ave		1.0620			0.1000	10.4		20.0			
Acrylonitrile	0.5037 0.4918	0.4559 0.4736	0.4757 0.4463	0.4935	0.4904	Ave		0.4789				4.1		20.0			
Hexane	2.1369 1.7984	1.4991 1.7247	1.4468 1.5910	1.7000	1.7909	Ave		1.7110				12.6		20.0			
1,1-Dichloroethane	1.9789 1.9871	1.7934 1.9370	1.8484 1.8687	2.0305	2.0066	Ave		1.9313			0.2000	4.4		20.0			
Vinyl acetate	2.6408 2.3820	2.1574 2.2942	2.2239 2.2648	2.3290	2.2403	Ave		2.3166				6.4		20.0			
2,2-Dichloropropane	0.9509 0.8994	0.7439 0.8569	0.8932 0.7987	0.8319	0.9102	Ave		0.8606				7.8		20.0			
cis-1,2-Dichloroethene	1.3010 1.2415	1.0201 1.2289	1.1430 1.1759	1.1824	1.2067	Ave		1.1874			0.1000	7.0		20.0			
2-Butanone (MEK)	0.6179 0.5994	0.5761 0.5758	0.6029 0.5655	0.6211	0.6189	Ave		0.5972			0.1000	3.7		20.0			
Chlorobromomethane	0.6557 0.6393	0.4814 0.6215	0.5725 0.6184	0.6138	0.6374	Ave		0.6050				9.2		20.0			
Tetrahydrofuran	0.4717 0.4050	0.3658 0.4022	0.4196 0.3939	0.4274	0.4067	Ave		0.4115				7.4		20.0			
Chloroform	++++ 1.8683	1.7913 1.8302	1.9456 1.7877	1.9308	1.9103	Ave		1.8663			0.2000	3.5		20.0			
1,1,1-Trichloroethane	1.4562 1.3956	1.0365 1.3323	1.1286 1.3070	1.3414	1.3517	Ave		1.2937			0.1000	10.8		20.0			
Cyclohexane	1.8564 2.0892	1.5008 1.9736	1.6004 1.8771	1.7503	1.9515	Ave		1.8249			0.1000	10.8		20.0			
Carbon tetrachloride	1.1643 1.3794	0.9933 1.3728	1.1631 1.3361	1.2521	1.3400	Ave		1.2501			0.1000	10.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.4973 1.5440	1.1491 1.5089	1.3231 1.4411	1.5174	1.5065	Ave		1.4359				9.4		20.0			
Isobutyl alcohol	0.0536 0.0684	0.0504 0.0672	0.0536 0.0652	0.0630	0.0657	Ave		0.0609				11.7		20.0			
Benzene	4.9300 4.5513	4.0006 4.4049	4.2654 4.2367	4.4844	4.5697	Ave		4.4304			0.5000	6.3		20.0			
1,2-Dichloroethane	1.9311 1.6301	1.5768 1.5776	1.6034 1.5424	1.6966	1.6304	Ave		1.6486			0.1000	7.5		20.0			
n-Heptane	2.2897 1.7784	1.7526 1.6719	1.6164 1.5758	1.7289	1.7382	Ave		1.7690				12.5		20.0			
Trichloroethene	1.1955 1.1874	0.9785 1.1432	1.0197 1.1098	1.1645	1.1621	Ave		1.1201			0.2000	7.1		20.0			
Methylcyclohexane	2.0631 2.0080	1.5158 1.9173	1.7230 1.7663	1.8672	1.9417	Ave		1.8503			0.1000	9.5		20.0			
1,2-Dichloropropane	1.2702 1.0992	0.9904 1.0924	1.0239 1.0589	1.0924	1.1399	Ave		1.0959			0.1000	7.7		20.0			
Dibromomethane	0.6084 0.7032	0.6090 0.6870	0.6368 0.6769	0.6843	0.6989	Ave		0.6631			0.1000	5.9		20.0			
1,4-Dioxane	++++ 0.0083	++++ 0.0078	0.0054 0.0077	0.0079	0.0081	Ave		0.0075				14.2		20.0			
Bromodichloromethane	1.4458 1.4084	1.1633 1.3873	1.2402 1.3932	1.3425	1.3436	Ave		1.3405			0.2000	7.0		20.0			
2-Chloroethyl vinyl ether	0.6618 0.8009	0.5786 0.7800	0.6661 0.7771	0.7219	0.7561	Ave		0.7178				10.7		20.0			
cis-1,3-Dichloropropene	1.6156 1.8142	1.6051 1.8004	1.6426 1.7899	1.7378	1.7414	Ave		1.7184			0.2000	5.0		20.0			
4-Methyl-2-pentanone (MIBK)	0.6098 0.5944	0.5544 0.5694	0.5771 0.5258	0.6038	0.6234	Ave		0.5823			0.1000	5.5		20.0			
Toluene	1.5811 1.4636	1.2994 1.4197	1.3586 1.3587	1.4777	1.4543	Ave		1.4266			0.4000	6.2		20.0			
trans-1,3-Dichloropropene	0.7632 0.8060	0.6643 0.8183	0.6756 0.8036	0.7577	0.7781	Ave		0.7583			0.1000	7.7		20.0			
Ethyl methacrylate	0.6242 0.7126	0.5614 0.7057	0.5982 0.6996	0.6545	0.7028	Ave		0.6574				8.7		20.0			
1,1,2-Trichloroethane	0.4059 0.4081	0.3412 0.3944	0.3582 0.3859	0.4019	0.4035	Ave		0.3874			0.1000	6.4		20.0			
Tetrachloroethene	0.6571 0.6841	0.5781 0.6608	0.5701 0.6301	0.6381	0.6650	Ave		0.6354			0.2000	6.5		20.0			
1,3-Dichloropropane	0.8718 0.8740	0.7972 0.8686	0.8482 0.8230	0.8920	0.8844	Ave		0.8574				3.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4606 0.4499	0.4037 0.4239	0.4090 0.3896	0.4586	0.4592	Ave		0.4318			0.1000	6.7		20.0			
Dibromochloromethane	0.4943 0.5462	0.4347 0.5521	0.4413 0.5554	0.5074	0.5223	Ave		0.5067			0.1000	9.4		20.0			
1,2-Dibromoethane	0.4715 0.5343	0.4133 0.5309	0.4844 0.5096	0.5070	0.5376	Ave		0.4986				8.4		20.0			
Chlorobenzene	1.6984 1.6434	1.4639 1.6081	1.4801 1.5433	1.6553	1.6369	Ave		1.5912			0.5000	5.4		20.0			
Ethylbenzene	2.9696 2.7125	2.2451 2.6125	2.4919 2.4850	2.7149	2.7141	Ave		2.6182			0.1000	8.2		20.0			
1,1,1,2-Tetrachloroethane	0.4775 0.5469	0.4292 0.5516	0.4626 0.5422	0.5175	0.5369	Ave		0.5080				9.0		20.0			
m,p-Xylene	1.1887 1.1098	0.9622 1.0742	0.9862 1.0434	1.0968	1.0742	Ave		1.0669			0.1000	6.7		20.0			
o-Xylene	1.1271 1.0741	0.9704 1.0643	0.9673 1.0298	1.0889	1.0746	Ave		1.0496			0.3000	5.4		20.0			
Styrene	1.6940 1.8062	1.4521 1.7666	1.5465 1.7204	1.7611	1.7768	Ave		1.6905			0.3000	7.4		20.0			
Bromoform	0.2919 0.3241	0.2712 0.3469	0.2678 0.3555	0.3047	0.2983	Ave		0.3075			0.1000	10.5		20.0			
Isopropylbenzene	2.8287 2.7210	2.2877 2.6465	2.3621 2.4693	2.6099	2.6951	Ave		2.5775			0.1000	7.3		20.0			
Bromobenzene	0.7783 0.7051	0.6176 0.7041	0.6575 0.6743	0.6863	0.7150	Ave		0.6923				6.8		20.0			
1,1,2,2-Tetrachloroethane	0.5551 0.6371	0.5811 0.6287	0.6001 0.6016	0.6310	0.6482	Ave		0.6103			0.3000	5.2		20.0			
1,2,3-Trichloropropane	0.2131 0.2209	0.2142 0.2173	0.1926 0.2091	0.2322	0.2239	Ave		0.2154				5.4		20.0			
N-Propylbenzene	3.3519 3.1224	2.7163 3.0134	2.7266 2.7936	3.0460	3.0896	Ave		2.9825				7.4		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.1796	0.0727 0.1961	0.1136 0.1990	0.1533	0.1675	Lin1	-0.160	0.1972							0.9990		0.9900
2-Chlorotoluene	0.7005 0.6495	0.5868 0.6302	0.5932 0.6169	0.6589	0.6434	Ave		0.6349				5.8		20.0			
1,3,5-Trimethylbenzene	2.4165 2.3334	1.8855 2.2654	1.9923 2.1279	2.3055	2.2974	Ave		2.2030				8.3		20.0			
4-Chlorotoluene	0.7671 0.6697	0.5879 0.6722	0.6184 0.6422	0.6655	0.6674	Ave		0.6613				7.9		20.0			
tert-Butylbenzene	0.5189 0.5522	0.4490 0.5374	0.4566 0.5197	0.5249	0.5373	Ave		0.5120				7.5		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.3537 2.3857	2.0383 2.3295	2.1860 2.1758	2.4039	2.3235	Ave		2.2745				5.6		20.0			
sec-Butylbenzene	3.0780 2.9839	2.4707 2.9022	2.6078 2.6790	2.9003	2.9315	Ave		2.8192				7.4		20.0			
1,3-Dichlorobenzene	1.4003 1.3577	1.2199 1.3292	1.1782 1.2626	1.3554	1.3583	Ave		1.3077			0.6000	6.0		20.0			
4-Isopropyltoluene	2.5906 2.6617	2.1616 2.5546	2.3235 2.3681	2.5509	2.6112	Ave		2.4778				7.0		20.0			
1,4-Dichlorobenzene	1.4755 1.3829	1.3549 1.3580	1.2607 1.3041	1.3477	1.3734	Ave		1.3571			0.5000	4.6		20.0			
n-Butylbenzene	2.1991 2.2882	1.8410 2.2087	1.9062 2.0473	2.1754	2.2087	Ave		2.1093				7.6		20.0			
1,2-Dichlorobenzene	1.3917 1.3128	1.1714 1.3046	1.2114 1.2441	1.3070	1.3350	Ave		1.2848			0.4000	5.5		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1240	0.0909 0.1307	0.0945 0.1335	0.1106	0.1177	Ave		0.1146			0.0500	14.7		20.0			
1,2,4-Trichlorobenzene	1.0535 0.9888	0.8795 1.0138	0.8425 0.9884	0.9845	0.9715	Ave		0.9653			0.2000	7.2		20.0			
Hexachlorobutadiene	0.4989 0.4897	0.4343 0.4902	0.4047 0.4731	0.4275	0.4726	Ave		0.4614				7.5		20.0			
Naphthalene	2.4030 2.5575	2.0714 2.5912	2.2788 2.5084	2.4169	2.4815	Ave		2.4136				7.0		20.0			
1,2,3-Trichlorobenzene	0.9478 0.9288	0.8031 0.9351	0.8336 0.9348	0.9097	0.9226	Ave		0.9019				5.9		20.0			
Dibromofluoromethane (Surr)	1.1648 1.2127	1.1955 1.2212	1.1731 1.2294	1.1686	1.2100	Ave		1.1969				2.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7715 0.7638	0.7748 0.7576	0.7834 0.7438	0.7472	0.7678	Ave		0.7637				1.8		20.0			
Toluene-d8 (Surr)	2.4517 2.5089	2.4454 2.4834	2.4616 2.4596	2.4679	2.4492	Ave		2.4660				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.8225 0.8403	0.8284 0.8166	0.8284 0.8291	0.8226	0.8304	Ave		0.8273				0.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-330658/4	S9064.D
Level 2	IC 480-330658/5	S9065.D
Level 3	IC 480-330658/6	S9066.D
Level 4	IC 480-330658/7	S9067.D
Level 5	IC 480-330658/8	S9068.D
Level 6	ICIS 480-330658/9	S9069.D
Level 7	IC 480-330658/10	S9070.D
Level 8	IC 480-330658/11	S9071.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	1984 116172	2870 220584	7431 429918	21394	41528	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	1965 123705	3821 233181	8702 452887	24461	47211	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	2036 120688	2996 227267	7089 445726	23354	43338	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Lin1	++++ 112351	2290 217448	5509 410982	20131	38343	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 64271	2686 125399	4784 264728	13716	23410	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 70729	2106 138972	4855 269715	13198	25752	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	4266 190603	7204 362441	13522 707263	37790	73128	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Lin1	++++ 152681	3065 291295	8625 595788	27941	56442	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2052 105240	3830 206573	7816 387235	20561	42351	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	2546 100280	4315 195620	7912 376384	20944	39722	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin1	++++ 108197	1643 206779	6045 402237	18903	41630	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	1597 114998	3125 216779	7769 443426	21637	44044	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	5569 205653	10145 388620	17409 737652	43079	83663	2.50 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Lin1	++++ 163911	3684 319633	8931 643635	28029	55636	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	7799 347877	12019 675851	25054 1301135	67091	136358	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	3769 157355	5640 304321	12695 565289	30720	63112	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	11465 494949	19098 961149	38680 1774084	98127	198216	2.50 125	5.00 250	10.0 500	25.0	50.0
Methylene Chloride	FB	Lin1	9275 126127	11861 237776	15182 454905	28947	57690	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3441 182143	5768 344834	13317 654454	32988	71076	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	8023 366677	13254 718917	27965 1370157	72548	148321	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	2581 118472	3530 230370	8277 437397	22632	45018	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	10647 515580	19197 998253	39290 1835523	103824	206011	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	4517 188529	6312 363573	11949 654308	35764	75236	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	4183 208312	7551 408320	15265 768493	42717	84301	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	11164 499423	18167 967226	36732 1862803	97992	188237	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	2010 94288	3132 180633	7377 328447	17500	38240	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	2750 130144	4295 259058	9440 483602	24874	50695	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	6530 314159	12128 606855	24896 1162877	65330	130005	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	1386 67019	2027 131006	4728 254323	12913	26779	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	1994 84912	3080 169574	6931 323950	17984	34169	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	++++ 195856	7542 385807	16068 735194	40618	80255	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	3078 146300	4364 280845	9321 537506	28219	56786	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	3924 219010	6319 416036	13217 771935	36822	81985	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	2461 144608	4182 289384	9606 549451	26341	56293	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	3165 161860	4838 318082	10927 592644	31921	63289	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	2835 179176	5304 354341	11076 669929	33122	69036	12.5 625	25.0 1250	50.0 2500	125	250

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	10421 477122	16844 928534	35226 1742306	94339	191977	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	4082 170889	6639 332565	13242 634303	35692	68497	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	4840 186433	7379 352441	13349 648048	36371	73023	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2527 124473	4120 240982	8421 456389	24497	48823	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	4361 210499	6382 404158	14230 726393	39280	81572	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2685 115235	4170 230270	8456 435458	22980	47889	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	1286 73719	2564 144816	5259 278377	14395	29362	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 35746	++++ 67270	1845 132026	6762	13856	++++ 500	++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	3056 147647	4898 292441	10242 572931	28242	56445	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	1399 83957	2436 164413	5501 319563	15187	31764	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3415 190186	6758 379513	13566 736091	36558	73158	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	13076 639598	24032 1228885	49393 2254897	129196	268148	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	6781 314984	11265 612785	23257 1165370	63234	125110	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	3273 173466	5759 353186	11566 689238	32422	66936	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	2677 153358	4867 304598	10240 600098	28009	60459	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1741 87817	2958 170242	6132 330959	17197	34716	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	2818 147217	5012 285227	9759 540457	27306	57211	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	3739 188095	6911 374901	14520 705939	38168	76084	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	9878 484151	17500 914837	35004 1670872	98127	197519	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2120 117541	3769 238305	7555 476429	21714	44934	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	2022 114983	3583 229133	8293 437069	21697	46252	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	7284 353678	12691 694119	25337 1323782	70834	140820	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	12736 583762	19464 1127618	42658 2131458	116177	233497	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2048 117700	3721 238076	7920 465036	22143	46189	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	5098 238847	8342 463641	16883 894995	46935	92409	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	4834 231159	8413 459389	16559 883258	46594	92448	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	7265 388706	12589 762531	26474 1475641	75362	152857	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	1252 69753	2351 149729	4584 304885	13037	25661	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	12571 598155	19888 1152702	41117 2176445	114987	236845	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	3459 155006	5369 306684	11445 594349	30237	62832	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	2467 140049	5052 273820	10445 530236	27799	56959	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	947 48554	1862 94628	3352 184316	10230	19675	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	14896 686401	23614 1312521	47461 2462221	134204	271510	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	++++ 39483	632 85426	1977 175367	6756	14722	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	3113 142779	5101 274501	10325 543706	29032	56539	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	10739 512945	16392 986712	34680 1875497	101577	201890	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	3409 147229	5111 292786	10764 566019	29323	58651	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	2306 121399	3903 234055	7948 458035	23125	47218	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	10460 524460	17720 1014618	38051 1917735	105912	204188	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	13679 655951	21479 1264079	45394 2361248	127783	257613	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	6223 298476	10605 578964	20508 1112818	59719	119362	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	11513 585136	18792 1112670	40445 2087197	112391	229465	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 16:51 Calibration End Date: 11/09/2016 19:33 Calibration ID: 28808

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	6557 303995	11779 591481	21945 1149406	59376	120692	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	9773 503010	16005 962002	33181 1804441	95846	194097	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	6185 288592	10184 568246	21087 1096554	57583	117314	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 27267	790 56932	1645 117638	4873	10343	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	4682 217376	7646 441552	14665 871189	43377	85372	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	2217 107655	3776 213514	7045 416991	18835	41532	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	10679 562224	18008 1128618	39667 2210878	106484	218068	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	4212 204178	6982 407308	14510 823929	40079	81075	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	123106 127125	125839 128716	121098 126398	122916	127088	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	81541 80075	81560 79851	80875 76467	78590	80642	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	525740 539944	530018 535943	526749 527432	528027	526767	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	176375 180844	179538 176230	177264 177788	176008	178587	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9064.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Nov-2016 16:51:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.5
 Misc. Info.: 480-0058150-004
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:16:36 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 19:56:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	105689	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.613	-0.001	85	214439	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	222203	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	73	123106	25.0	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	81541	25.0	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	92	525740	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.860	0.000	93	176375	25.0	24.9	
10 Dichlorodifluoromethane	85	1.318	1.324	-0.006	1	1984	0.5000	0.4860	
12 Chloromethane	50	1.495	1.507	-0.012	39	1965	0.5000	0.4342	
13 Vinyl chloride	62	1.598	1.604	-0.006	1	2036	0.5000	0.4823	
151 Butadiene	54	1.635	1.629	0.006	56	1036	0.5000	0.7562	
14 Bromomethane	94	1.908	1.927	-0.019	1	708	0.5000	0.2740	
15 Chloroethane	64	2.054	2.042	0.012	0	805	0.5000	0.3087	M
16 Dichlorofluoromethane	67	2.261	2.267	-0.006	2	4266	0.5000	0.5701	
17 Trichlorofluoromethane	101	2.261	2.280	-0.019	9	2359	0.5000	0.8932	
18 Ethyl ether	59	2.578	2.572	0.006	67	2052	0.5000	0.5018	
20 Acrolein	56	2.748	2.754	-0.006	40	2546	2.50	3.04	
21 1,1,2-Trichloro-1,2,2-trif	101		2.791				ND	ND	
22 1,1-Dichloroethene	96	2.815	2.809	0.006	16	1597	0.5000	0.3915	
23 Acetone	43	2.918	2.912	0.006	85	5569	2.50	3.14	
25 Iodomethane	142	2.979	2.979	0.000	16	2040	0.5000	0.8735	
26 Carbon disulfide	76	3.016	3.010	0.006	62	7799	0.5000	0.5742	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	26	3769	0.5000	0.5973	
27 Methyl acetate	43	3.222	3.222	0.000	94	11465	2.50	2.88	
30 Methylene Chloride	84	3.344	3.338	0.006	52	9275	0.5000	0.4861	
31 2-Methyl-2-propanol	59	3.496	3.484	0.012	45	3441	5.00	5.07	
32 Methyl tert-butyl ether	73	3.545	3.545	0.000	45	8023	0.5000	0.5511	
34 trans-1,2-Dichloroethene	96	3.563	3.557	0.006	50	2581	0.5000	0.5749	
33 Acrylonitrile	53	3.612	3.606	0.006	88	10647	5.00	5.26	
35 Hexane	57	3.764	3.764	0.000	69	4517	0.5000	0.6245	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.989	3.983	0.006	1	4183	0.5000	0.5123	
37 Vinyl acetate	43	4.038	4.038	0.000	88	11164	1.00	1.14	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	1	2010	0.5000	0.5524	
45 cis-1,2-Dichloroethene	96	4.549	4.543	0.006	0	2750	0.5000	0.5478	
43 2-Butanone (MEK)	43	4.591	4.579	0.012	74	6530	2.50	2.59	
48 Chlorobromomethane	128	4.774	4.780	-0.006	1	1386	0.5000	0.5419	
49 Tetrahydrofuran	42	4.828	4.810	0.018	54	1994	1.00	1.15	
50 Chloroform	83	4.853	4.859	-0.006	13	5897	0.5000	0.7474	
51 1,1,1-Trichloroethane	97	4.974	4.981	-0.007	10	3078	0.5000	0.5628	
52 Cyclohexane	56	4.993	4.993	0.000	1	3924	0.5000	0.5086	
55 Carbon tetrachloride	117	5.114	5.121	-0.007	31	2461	0.5000	0.4657	
54 1,1-Dichloropropene	75	5.139	5.133	0.006	13	3165	0.5000	0.5214	
53 Isobutyl alcohol	43	5.346	5.333	0.013	8	2835	12.5	11.0	
57 Benzene	78	5.339	5.340	-0.001	41	10421	0.5000	0.5564	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	24	4082	0.5000	0.5857	
59 n-Heptane	43	5.522	5.522	0.000	67	4840	0.5000	0.6472	
62 Trichloroethene	95	5.954	5.954	0.000	46	2527	0.5000	0.5337	
64 Methylcyclohexane	83	6.076	6.076	0.000	39	4361	0.5000	0.5575	
65 1,2-Dichloropropane	63	6.185	6.191	-0.006	2	2685	0.5000	0.5795	
67 Dibromomethane	93	6.325	6.325	0.000	45	1286	0.5000	0.4588	
66 1,4-Dioxane	88		6.337				ND	ND	
68 Dichlorobromomethane	83	6.471	6.477	-0.006	16	3056	0.5000	0.5392	
69 2-Chloroethyl vinyl ether	63	6.763	6.757	0.006	1	1399	0.5000	0.4610	
72 cis-1,3-Dichloropropene	75	6.903	6.897	0.006	31	3415	0.5000	0.4701	
73 4-Methyl-2-pentanone (MIBK)	43	7.043	7.037	0.006	84	13076	2.50	2.62	
74 Toluene	92	7.189	7.189	0.000	64	6781	0.5000	0.5541	
77 trans-1,3-Dichloropropene	75	7.469	7.463	0.006	27	3273	0.5000	0.5032	
75 Ethyl methacrylate	69	7.517	7.511	0.006	1	2677	0.5000	0.4748	
79 1,1,2-Trichloroethane	83	7.657	7.651	0.006	14	1741	0.5000	0.5240	
81 Tetrachloroethene	166	7.730	7.730	0.000	59	2818	0.5000	0.5170	
82 1,3-Dichloropropane	76	7.816	7.816	0.000	31	3739	0.5000	0.5084	
80 2-Hexanone	43	7.889	7.883	0.006	82	9878	2.50	2.67	
83 Chlorodibromomethane	129	8.059	8.053	0.006	1	2120	0.5000	0.4877	
84 Ethylene Dibromide	107	8.162	8.162	0.000	34	2022	0.5000	0.4728	
87 Chlorobenzene	112	8.643	8.643	0.000	17	7284	0.5000	0.5337	
88 Ethylbenzene	91	8.740	8.734	0.006	56	12736	0.5000	0.5671	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	1	2048	0.5000	0.4700	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	5098	0.5000	0.5571	
91 o-Xylene	106	9.288	9.282	0.006	47	4834	0.5000	0.5370	
92 Styrene	104	9.312	9.312	0.000	21	7265	0.5000	0.5010	
95 Bromoform	173	9.555	9.555	0.000	1	1252	0.5000	0.4746	
94 Isopropylbenzene	105	9.665	9.665	0.000	51	12571	0.5000	0.5487	
101 Bromobenzene	156	10.012	10.006	0.006	32	3459	0.5000	0.5622	
97 1,1,2,2-Tetrachloroethane	83	10.042	10.048	-0.006	1	2467	0.5000	0.4548	
99 N-Propylbenzene	91	10.085	10.085	0.000	74	14896	0.5000	0.5619	
100 1,2,3-Trichloropropane	110	10.079	10.085	-0.006	1	947	0.5000	0.4947	
98 trans-1,4-Dichloro-2-buten	53	10.091	10.097	-0.006	0	295	0.5000	0.9773	M
103 2-Chlorotoluene	126	10.188	10.188	0.000	63	3113	0.5000	0.5516	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	29	10739	0.5000	0.5485	
105 4-Chlorotoluene	126	10.298	10.298	0.000	30	3409	0.5000	0.5800	
106 tert-Butylbenzene	134	10.577	10.571	0.006	43	2306	0.5000	0.5067	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	26	10460	0.5000	0.5174	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	43	13679	0.5000	0.5459	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	55	11513	0.5000	0.5228	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	26	6223	0.5000	0.5354	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	1	6557	0.5000	0.5436	
115 n-Butylbenzene	91	11.301	11.301	0.000	63	9773	0.5000	0.5213	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	43	6185	0.5000	0.5416	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.074	-0.006	0	223	0.5000	0.2190	M
119 1,2,4-Trichlorobenzene	180	12.749	12.743	0.006	15	4682	0.5000	0.5457	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	1	2217	0.5000	0.5406	
121 Naphthalene	128	12.956	12.962	-0.006	17	10679	0.5000	0.4978	
122 1,2,3-Trichlorobenzene	180	13.157	13.163	-0.006	24	4212	0.5000	0.5254	
S 125 1,2-Dichloroethene, Total	1				0			1.12	
S 126 1,3-Dichloropropene, Total	1				0			0.9733	
S 123 Total BTEX	1				0			2.77	
S 124 Xylenes, Total	1				0			1.09	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00085

Amount Added: 0.50

Units: uL

GAS CORP mix_00189

Amount Added: 0.50

Units: uL

S_8260_IS_00191

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00169

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161109-58150.b\\S9064.D

Injection Date: 09-Nov-2016 16:51:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 0.5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

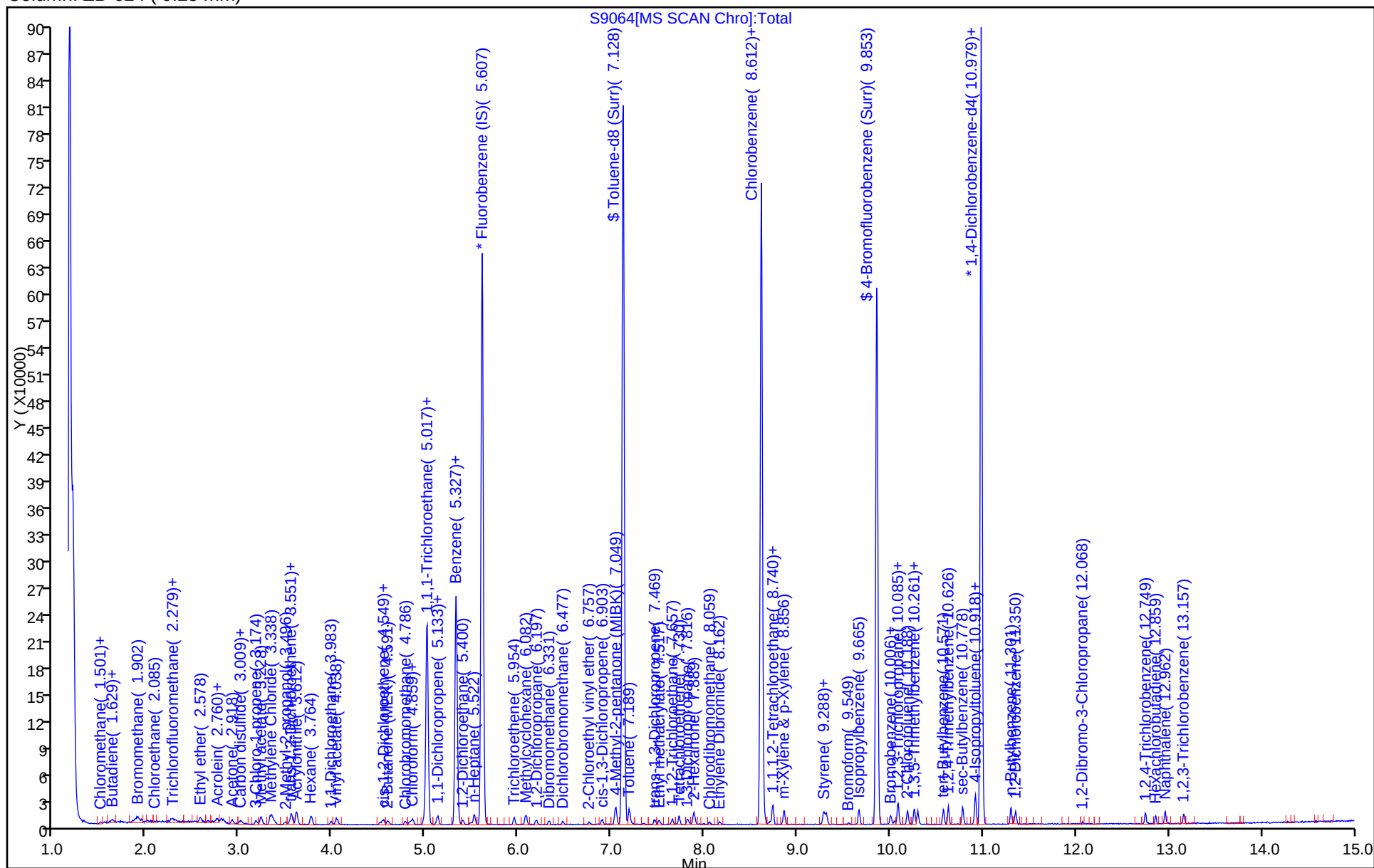
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9064.D

Injection Date: 09-Nov-2016 16:51:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: JG

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

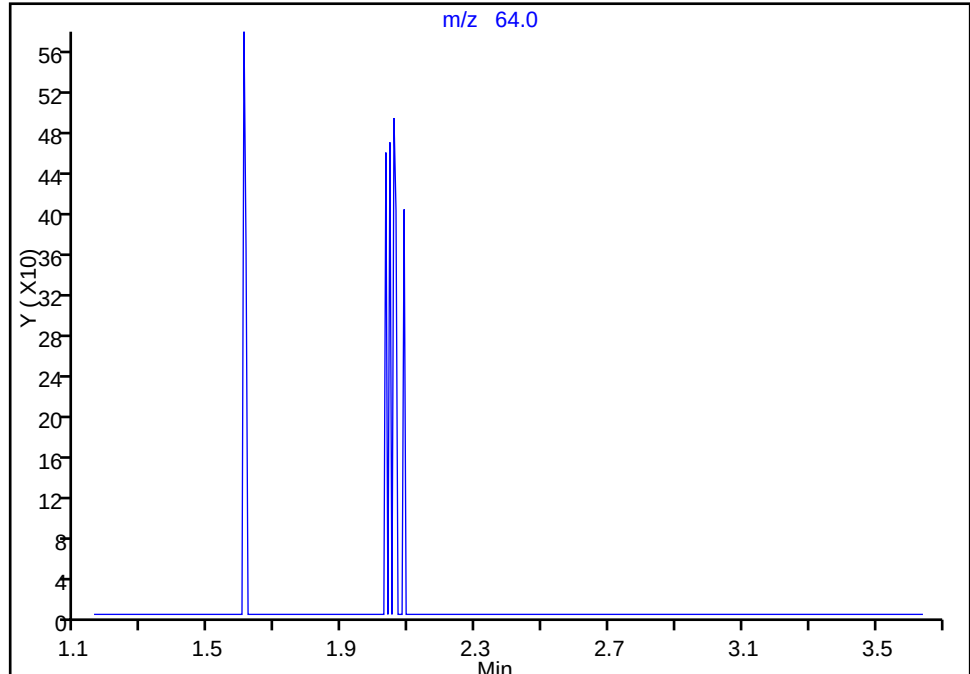
15 Chloroethane, CAS: 75-00-3

Signal: 1

Not Detected

Expected RT: 2.04

Processing Integration Results



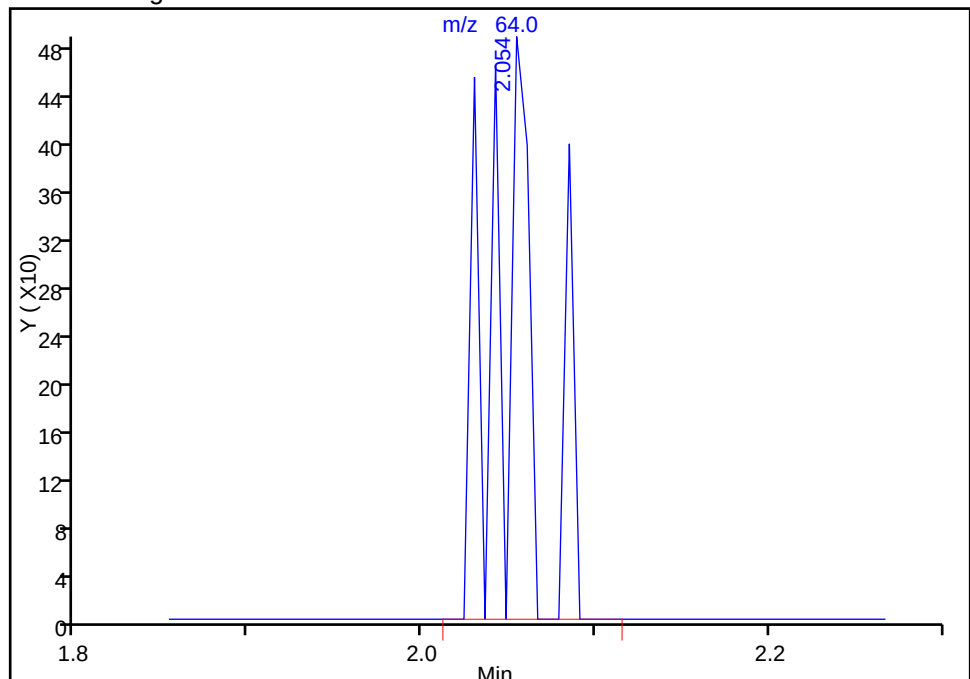
RT: 2.05

Area: 805

Amount: 0.308674

Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 09-Nov-2016 19:56:26

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9064.D

Injection Date: 09-Nov-2016 16:51:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: JG

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

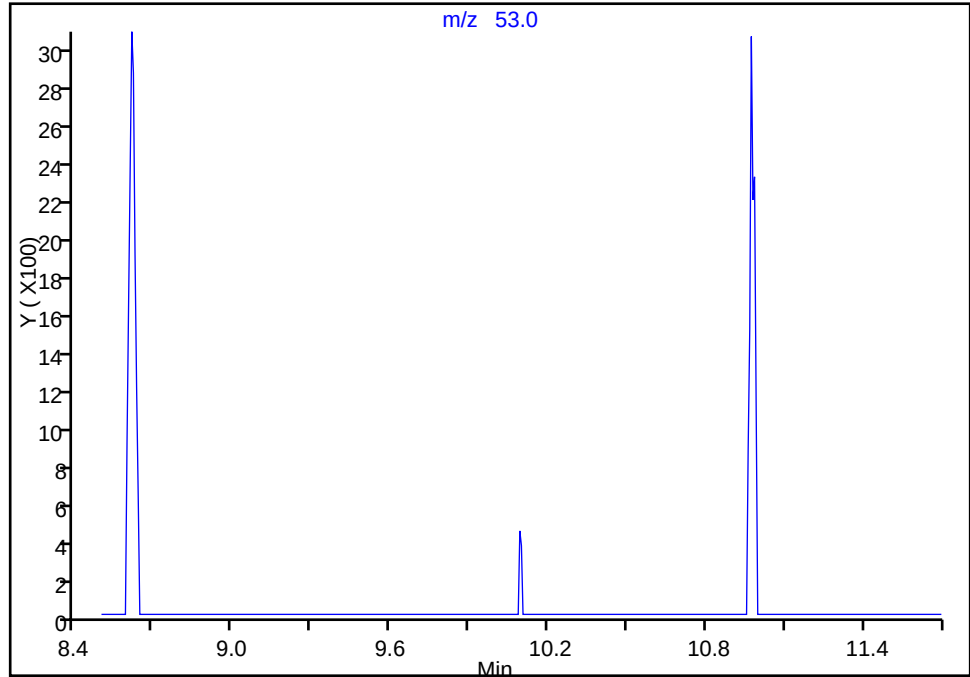
98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

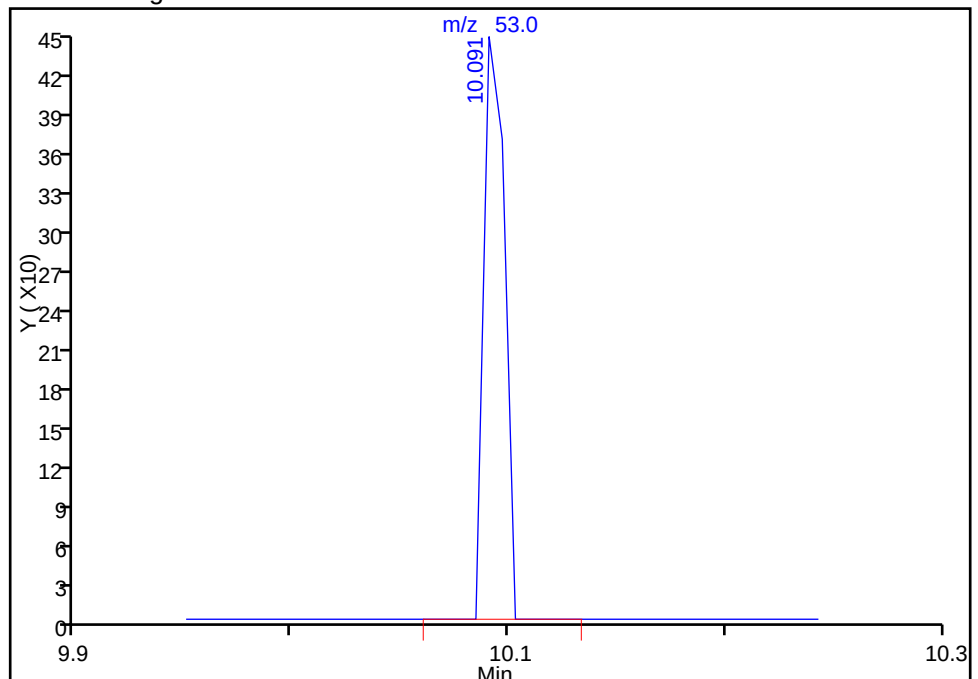
Not Detected

Expected RT: 10.10

Processing Integration Results



Manual Integration Results



RT: 10.09

Area: 295

Amount: 0.977342

Amount Units: ug/L

Reviewer: o'briens, 09-Nov-2016 19:58:27

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9064.D

Injection Date: 09-Nov-2016 16:51:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: JG

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

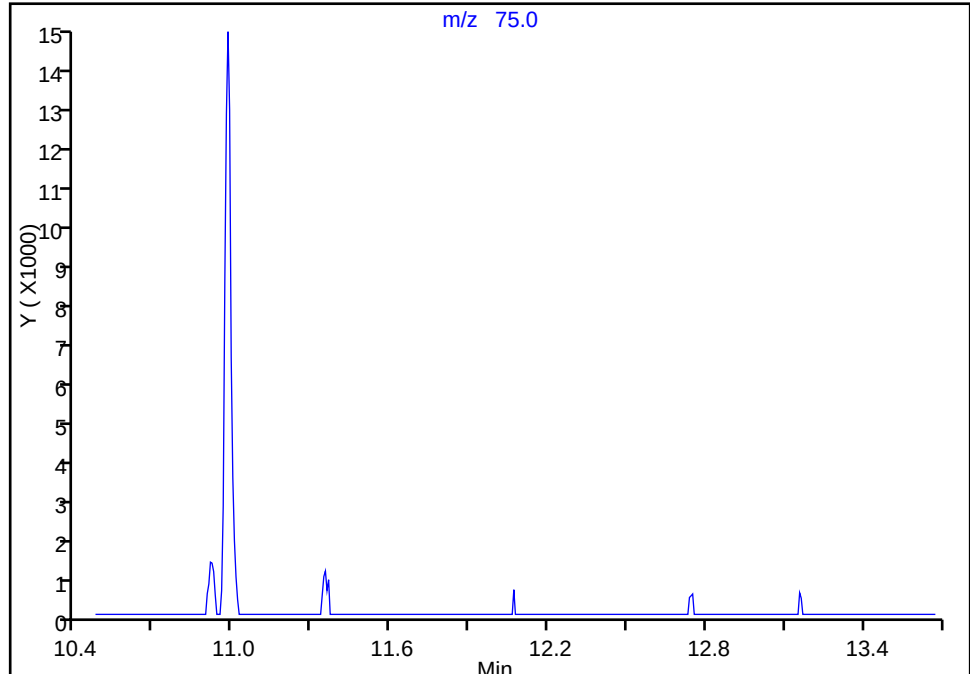
117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

Not Detected

Expected RT: 12.07

Processing Integration Results



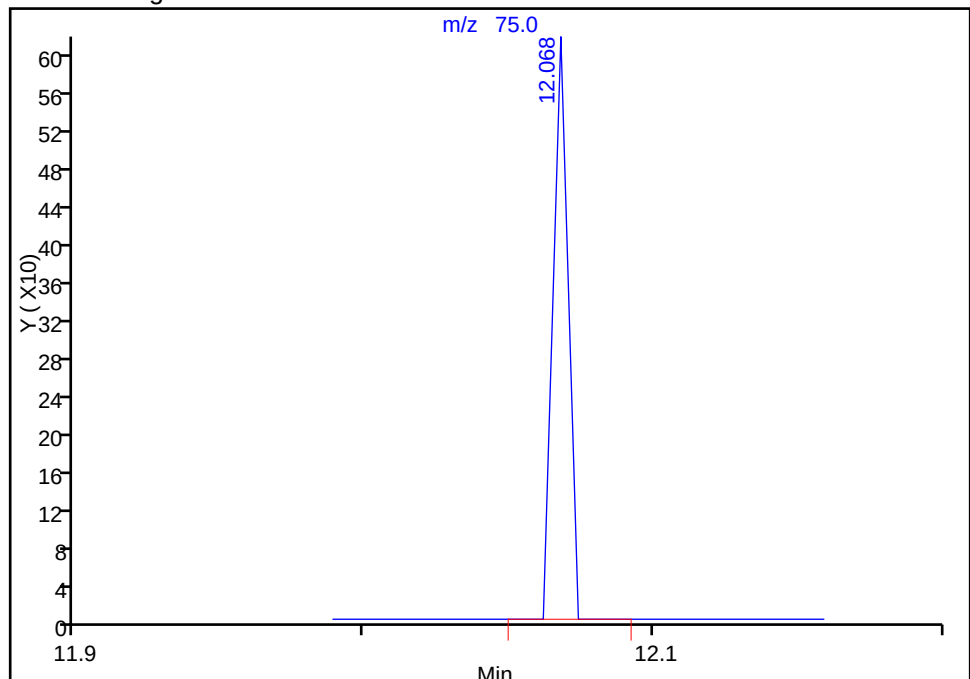
RT: 12.07

Area: 223

Amount: 0.219018

Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 09-Nov-2016 19:58:27

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9065.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Nov-2016 17:14:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 480-0058150-005
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:16:44 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 19:59:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	105260	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.613	-0.001	84	216738	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	217340	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	74	125839	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	81560	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	93	530018	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.860	0.000	94	179538	25.0	25.0	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	26	2870	1.00	0.7059	
12 Chloromethane	50	1.501	1.507	-0.006	38	3821	1.00	0.8477	
13 Vinyl chloride	62	1.610	1.604	0.006	21	2996	1.00	0.7126	
151 Butadiene	54	1.629	1.629	-0.001	76	2290	1.00	1.05	
14 Bromomethane	94	1.927	1.927	0.000	35	2686	1.00	1.04	
15 Chloroethane	64	2.036	2.042	-0.006	28	2106	1.00	0.8108	M
16 Dichlorofluoromethane	67	2.273	2.267	0.006	6	7204	1.00	0.9666	
17 Trichlorofluoromethane	101	2.279	2.280	-0.001	1	3065	1.00	1.01	
18 Ethyl ether	59	2.578	2.572	0.006	68	3830	1.00	0.9405	
20 Acrolein	56	2.754	2.754	0.000	57	4315	5.00	5.17	
21 1,1,2-Trichloro-1,2,2-trif	101	2.809	2.791	0.018	1	1643	1.00	0.9175	
22 1,1-Dichloroethene	96	2.815	2.809	0.006	36	3125	1.00	0.7692	
23 Acetone	43	2.918	2.912	0.006	82	10145	5.00	5.74	
25 Iodomethane	142	2.991	2.979	0.012	41	3684	1.00	1.13	
26 Carbon disulfide	76	3.016	3.010	0.006	59	12019	1.00	0.8885	
28 3-Chloro-1-propene	41	3.180	3.174	0.006	38	5640	1.00	0.8974	
27 Methyl acetate	43	3.228	3.222	0.006	93	19098	5.00	4.82	
30 Methylene Chloride	84	3.332	3.338	-0.006	59	11861	1.00	1.05	
31 2-Methyl-2-propanol	59	3.490	3.484	0.006	73	5768	10.0	8.54	
32 Methyl tert-butyl ether	73	3.557	3.545	0.012	65	13254	1.00	0.9141	
34 trans-1,2-Dichloroethene	96	3.563	3.557	0.006	47	3530	1.00	0.7895	
33 Acrylonitrile	53	3.612	3.606	0.006	89	19197	10.0	9.52	
35 Hexane	57	3.764	3.764	0.000	75	6312	1.00	0.8762	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	14	7551	1.00	0.9286	
37 Vinyl acetate	43	4.044	4.038	0.006	88	18167	2.00	1.86	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	9	3132	1.00	0.8643	
45 cis-1,2-Dichloroethene	96	4.549	4.543	0.006	19	4295	1.00	0.8591	
43 2-Butanone (MEK)	43	4.591	4.579	0.012	91	12128	5.00	4.82	
48 Chlorobromomethane	128	4.780	4.780	0.000	54	2027	1.00	0.7957	
49 Tetrahydrofuran	42	4.835	4.810	0.025	81	3080	2.00	1.78	
50 Chloroform	83	4.859	4.859	0.000	51	7542	1.00	0.9598	
51 1,1,1-Trichloroethane	97	4.981	4.981	0.000	22	4364	1.00	0.8012	
52 Cyclohexane	56	4.993	4.993	0.000	4	6319	1.00	0.8224	
55 Carbon tetrachloride	117	5.127	5.121	0.006	56	4182	1.00	0.7945	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	31	4838	1.00	0.8002	
53 Isobutyl alcohol	43	5.339	5.333	0.006	18	5304	25.0	20.7	
57 Benzene	78	5.339	5.340	-0.001	42	16844	1.00	0.9030	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	51	6639	1.00	0.9565	
59 n-Heptane	43	5.522	5.522	0.000	76	7379	1.00	0.99	
62 Trichloroethene	95	5.948	5.954	-0.006	44	4120	1.00	0.8736	
64 Methylcyclohexane	83	6.082	6.076	0.006	52	6382	1.00	0.8192	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	52	4170	1.00	0.9037	
67 Dibromomethane	93	6.325	6.325	0.000	58	2564	1.00	0.9184	
66 1,4-Dioxane	88	6.349	6.337	0.012	0	799	20.0	12.3	M
68 Dichlorobromomethane	83	6.477	6.477	0.000	24	4898	1.00	0.8678	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	24	2436	1.00	0.8060	
72 cis-1,3-Dichloropropene	75	6.903	6.897	0.006	44	6758	1.00	0.9341	
73 4-Methyl-2-pentanone (MIBK)	43	7.043	7.037	0.006	84	24032	5.00	4.76	
74 Toluene	92	7.189	7.189	0.000	70	11265	1.00	0.9108	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	52	5759	1.00	0.8760	
75 Ethyl methacrylate	69	7.511	7.511	0.000	24	4867	1.00	0.8540	
79 1,1,2-Trichloroethane	83	7.657	7.651	0.006	41	2958	1.00	0.8808	
81 Tetrachloroethene	166	7.724	7.730	-0.006	69	5012	1.00	0.9098	
82 1,3-Dichloropropane	76	7.816	7.816	0.000	66	6911	1.00	0.9298	
80 2-Hexanone	43	7.889	7.883	0.006	83	17500	5.00	4.67	
83 Chlorodibromomethane	129	8.053	8.053	0.000	0	3769	1.00	0.8579	
84 Ethylene Dibromide	107	8.162	8.162	0.000	47	3583	1.00	0.8289	
87 Chlorobenzene	112	8.643	8.643	0.000	40	12691	1.00	0.9200	
88 Ethylbenzene	91	8.740	8.734	0.006	69	19464	1.00	0.8575	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	6	3721	1.00	0.8448	
90 m-Xylene & p-Xylene	106	8.862	8.856	0.006	0	8342	1.00	0.9018	
91 o-Xylene	106	9.282	9.282	0.000	77	8413	1.00	0.9246	
92 Styrene	104	9.318	9.312	0.006	58	12589	1.00	0.8590	
95 Bromoform	173	9.561	9.555	0.006	5	2351	1.00	0.8818	
94 Isopropylbenzene	105	9.665	9.665	0.000	61	19888	1.00	0.8875	
101 Bromobenzene	156	10.006	10.006	0.000	62	5369	1.00	0.8921	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	1	5052	1.00	0.9521	
99 N-Propylbenzene	91	10.085	10.085	0.000	85	23614	1.00	0.9107	
100 1,2,3-Trichloropropane	110	10.091	10.085	0.006	1	1862	1.00	0.99	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.097	0.000	1	632	1.00	1.18	
103 2-Chlorotoluene	126	10.182	10.188	-0.006	66	5101	1.00	0.9241	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	62	16392	1.00	0.8559	
105 4-Chlorotoluene	126	10.298	10.298	0.000	40	5111	1.00	0.8890	
106 tert-Butylbenzene	134	10.571	10.571	0.000	55	3903	1.00	0.8769	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	58	17720	1.00	0.8961	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.784	10.778	0.006	45	21479	1.00	0.8764	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	72	18792	1.00	0.8724	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	46	10605	1.00	0.9328	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	8	11779	1.00	1.00	
115 n-Butylbenzene	91	11.301	11.301	0.000	73	16005	1.00	0.8728	
116 1,2-Dichlorobenzene	146	11.356	11.350	0.006	50	10184	1.00	0.9118	
117 1,2-Dibromo-3-Chloropropan	75	12.074	12.074	0.000	1	790	1.00	0.7933	
119 1,2,4-Trichlorobenzene	180	12.743	12.743	0.000	37	7646	1.00	0.9111	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	36	3776	1.00	0.9414	
121 Naphthalene	128	12.962	12.962	0.000	60	18008	1.00	0.8582	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	45	6982	1.00	0.8904	
S 125 1,2-Dichloroethene, Total	1				0			1.65	
S 126 1,3-Dichloropropene, Total	1				0			1.81	
S 123 Total BTEX	1				0			4.50	
S 124 Xylenes, Total	1				0			1.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00085

Amount Added: 1.00

Units: uL

GAS CORP mix_00189

Amount Added: 1.00

Units: uL

S_8260_IS_00191

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00169

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161109-58150.b\\S9065.D

Injection Date: 09-Nov-2016 17:14:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

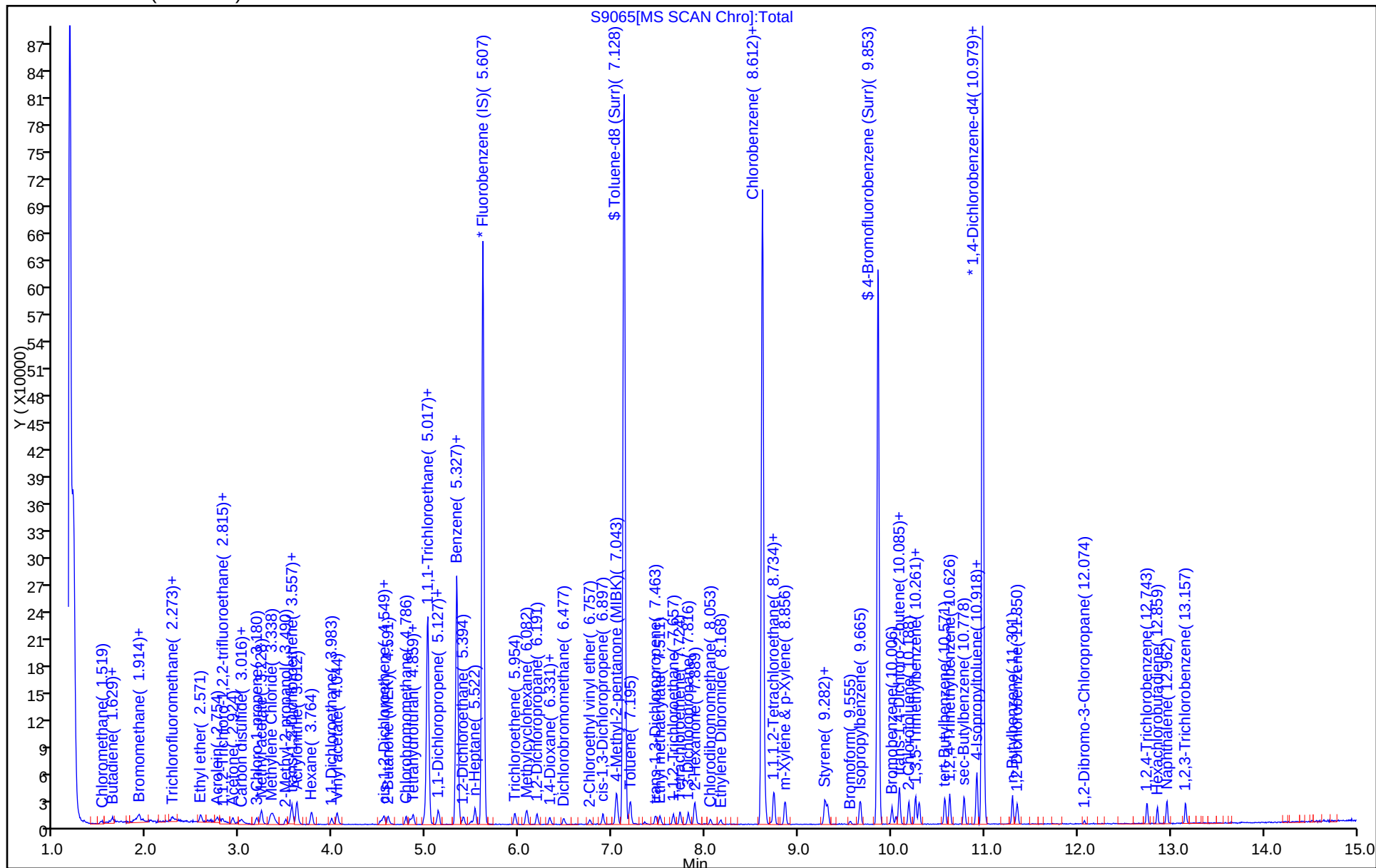
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9065.D

Injection Date: 09-Nov-2016 17:14:30

Instrument ID: HP5973S

Lims ID: IC

Client ID:

Operator ID: JG

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

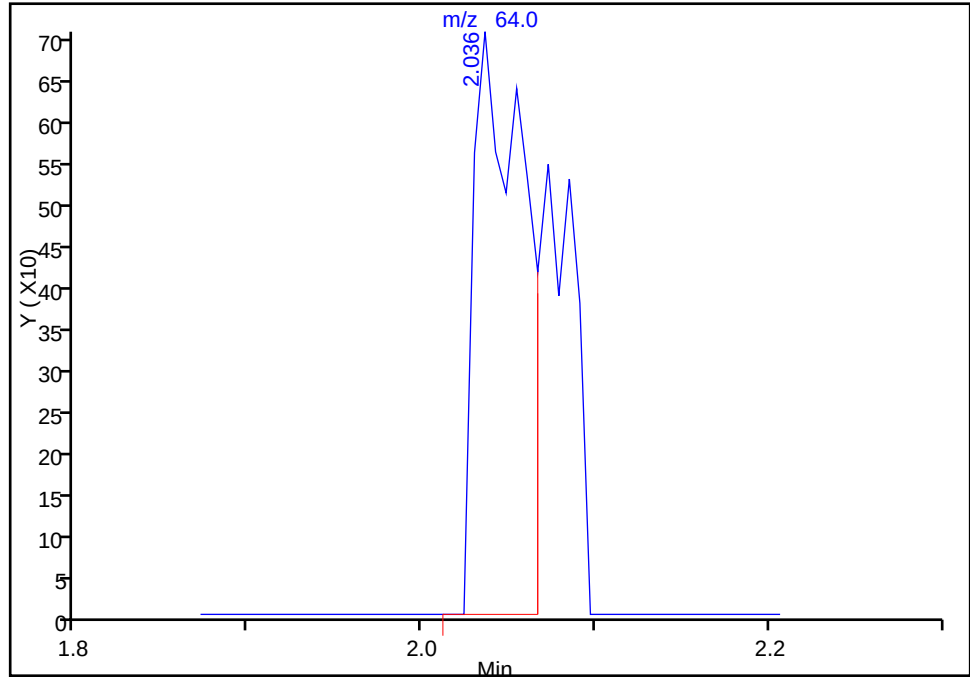
Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

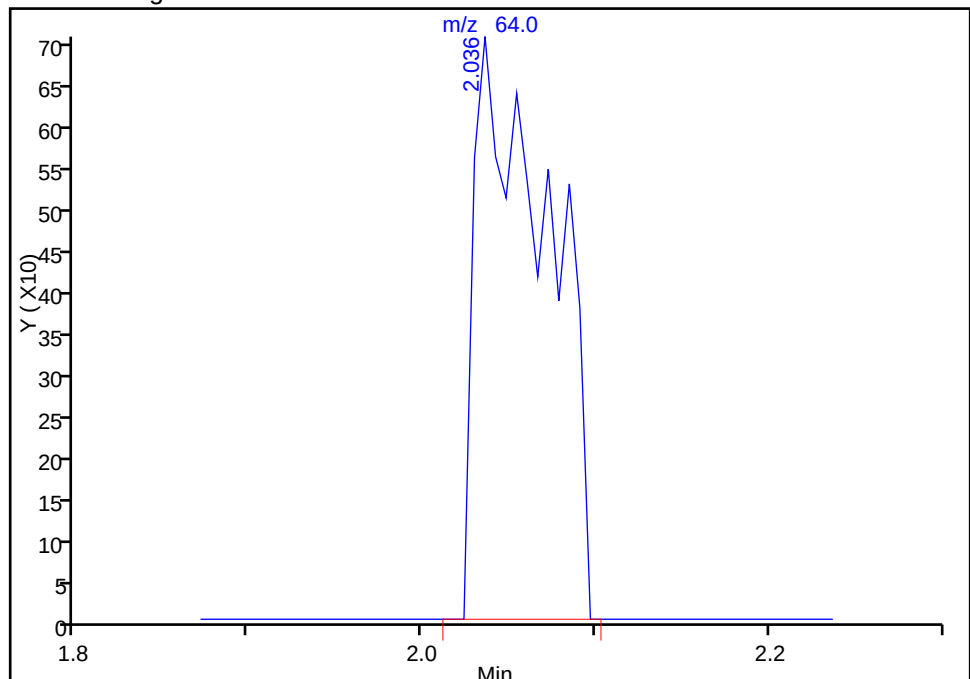
RT: 2.04
Area: 1434
Amount: 0.808238
Amount Units: ug/L

Processing Integration Results



RT: 2.04
Area: 2106
Amount: 0.810828
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 09-Nov-2016 19:59:55

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9065.D

Injection Date: 09-Nov-2016 17:14:30

Instrument ID: HP5973S

Lims ID: IC

Client ID:

Operator ID: JG

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

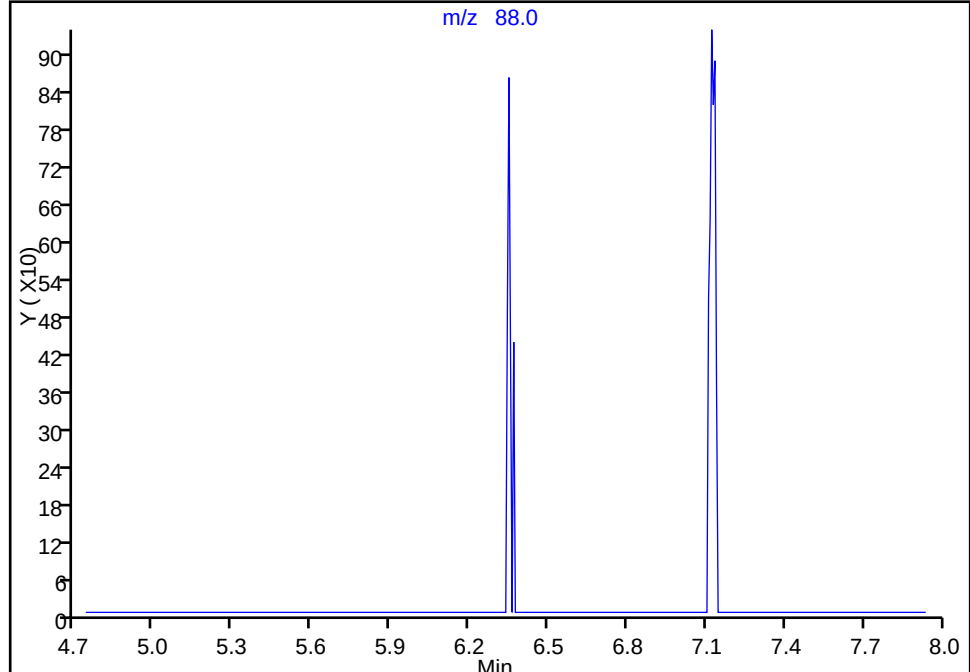
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 6.34

Processing Integration Results



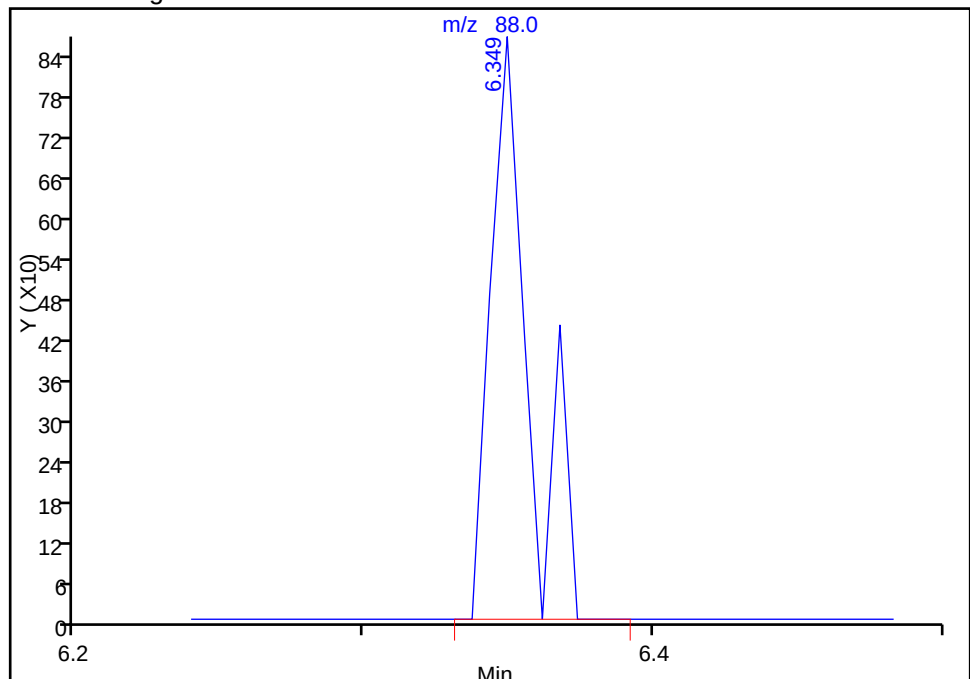
RT: 6.35

Area: 799

Amount: 12.251054

Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 09-Nov-2016 19:59:55

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9066.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Nov-2016 17:37:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 480-0058150-006
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:16:51 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 20:01:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	103233	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.613	-0.001	85	213985	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	217585	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	79	121098	25.0	24.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	80875	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	92	526749	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.860	-0.001	91	177264	25.0	25.0	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	44	7431	2.00	1.86	
12 Chloromethane	50	1.501	1.507	-0.006	70	8702	2.00	1.97	
13 Vinyl chloride	62	1.610	1.604	0.006	20	7089	2.00	1.72	
151 Butadiene	54	1.622	1.629	-0.007	78	5509	2.00	1.82	
14 Bromomethane	94	1.945	1.927	0.018	33	4784	2.00	1.90	
15 Chloroethane	64	2.042	2.042	0.000	38	4855	2.00	1.91	
16 Dichlorofluoromethane	67	2.273	2.267	0.006	36	13522	2.00	1.85	
17 Trichlorofluoromethane	101	2.273	2.280	-0.007	32	8625	2.00	1.95	
18 Ethyl ether	59	2.577	2.572	0.005	83	7816	2.00	1.96	
20 Acrolein	56	2.748	2.754	-0.006	74	7912	10.0	9.67	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.791	-0.007	0	6045	2.00	1.99	
22 1,1-Dichloroethene	96	2.821	2.809	0.012	47	7769	2.00	1.95	
23 Acetone	43	2.924	2.912	0.012	88	17409	10.0	10.0	
25 Iodomethane	142	2.985	2.979	0.006	73	8931	2.00	1.95	
26 Carbon disulfide	76	3.015	3.010	0.005	78	25054	2.00	1.89	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	63	12695	2.00	2.06	
27 Methyl acetate	43	3.228	3.222	0.006	94	38680	10.0	9.96	
30 Methylene Chloride	84	3.344	3.338	0.006	71	15182	2.00	1.83	
31 2-Methyl-2-propanol	59	3.490	3.484	0.006	78	13317	20.0	20.1	
32 Methyl tert-butyl ether	73	3.551	3.545	0.006	79	27965	2.00	1.97	
34 trans-1,2-Dichloroethene	96	3.563	3.557	0.006	70	8277	2.00	1.89	
33 Acrylonitrile	53	3.606	3.606	0.000	97	39290	20.0	19.9	
35 Hexane	57	3.764	3.764	0.000	83	11949	2.00	1.69	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	44	15265	2.00	1.91	
37 Vinyl acetate	43	4.044	4.038	0.006	96	36732	4.00	3.84	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	62	7377	2.00	2.08	
45 cis-1,2-Dichloroethene	96	4.542	4.543	-0.001	64	9440	2.00	1.93	
43 2-Butanone (MEK)	43	4.591	4.579	0.012	95	24896	10.0	10.1	
48 Chlorobromomethane	128	4.780	4.780	0.000	78	4728	2.00	1.89	
49 Tetrahydrofuran	42	4.822	4.810	0.012	80	6931	4.00	4.08	
50 Chloroform	83	4.865	4.859	0.006	74	16068	2.00	2.08	
51 1,1,1-Trichloroethane	97	4.980	4.981	-0.001	57	9321	2.00	1.74	
52 Cyclohexane	56	4.993	4.993	0.000	43	13217	2.00	1.75	
55 Carbon tetrachloride	117	5.120	5.121	-0.001	71	9606	2.00	1.86	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	63	10927	2.00	1.84	
53 Isobutyl alcohol	43	5.339	5.333	0.006	23	11076	50.0	44.0	
57 Benzene	78	5.339	5.340	-0.001	58	35226	2.00	1.93	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	57	13242	2.00	1.95	
59 n-Heptane	43	5.522	5.522	0.000	80	13349	2.00	1.83	
62 Trichloroethene	95	5.948	5.954	-0.006	75	8421	2.00	1.82	
64 Methylcyclohexane	83	6.082	6.076	0.006	75	14230	2.00	1.86	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	60	8456	2.00	1.87	
67 Dibromomethane	93	6.325	6.325	0.000	74	5259	2.00	1.92	
66 1,4-Dioxane	88	6.343	6.337	0.006	24	1845	40.0	28.7	
68 Dichlorobromomethane	83	6.477	6.477	0.000	66	10242	2.00	1.85	
69 2-Chloroethyl vinyl ether	63	6.763	6.757	0.006	57	5501	2.00	1.86	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	55	13566	2.00	1.91	
73 4-Methyl-2-pentanone (MIBK)	43	7.043	7.037	0.006	93	49393	10.0	9.91	
74 Toluene	92	7.195	7.189	0.006	81	23257	2.00	1.90	
77 trans-1,3-Dichloropropene	75	7.469	7.463	0.006	66	11566	2.00	1.78	
75 Ethyl methacrylate	69	7.517	7.511	0.006	55	10240	2.00	1.82	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	62	6132	2.00	1.85	
81 Tetrachloroethene	166	7.730	7.730	0.000	78	9759	2.00	1.79	
82 1,3-Dichloropropane	76	7.815	7.816	-0.001	63	14520	2.00	1.98	
80 2-Hexanone	43	7.882	7.883	0.000	73	35004	10.0	9.47	
83 Chlorodibromomethane	129	8.053	8.053	0.000	39	7555	2.00	1.74	
84 Ethylene Dibromide	107	8.168	8.162	0.006	47	8293	2.00	1.94	
87 Chlorobenzene	112	8.643	8.643	0.000	85	25337	2.00	1.86	
88 Ethylbenzene	91	8.734	8.734	0.000	88	42658	2.00	1.90	
89 1,1,1,2-Tetrachloroethane	131	8.734	8.740	-0.006	24	7920	2.00	1.82	
90 m-Xylene & p-Xylene	106	8.862	8.856	0.006	0	16883	2.00	1.85	
91 o-Xylene	106	9.282	9.282	0.000	88	16559	2.00	1.84	
92 Styrene	104	9.312	9.312	0.000	85	26474	2.00	1.83	
95 Bromoform	173	9.555	9.555	0.000	57	4584	2.00	1.74	
94 Isopropylbenzene	105	9.665	9.665	0.000	84	41117	2.00	1.83	
101 Bromobenzene	156	10.005	10.006	-0.001	86	11445	2.00	1.90	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	51	10445	2.00	1.97	
99 N-Propylbenzene	91	10.085	10.085	0.000	95	47461	2.00	1.83	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	25	3352	2.00	1.79	
98 trans-1,4-Dichloro-2-buten	53	10.103	10.097	0.006	1	1977	2.00	1.96	
103 2-Chlorotoluene	126	10.188	10.188	0.000	88	10325	2.00	1.87	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	74	34680	2.00	1.81	
105 4-Chlorotoluene	126	10.297	10.298	-0.001	77	10764	2.00	1.87	
106 tert-Butylbenzene	134	10.571	10.571	0.000	71	7948	2.00	1.78	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	57	38051	2.00	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.784	10.778	0.006	69	45394	2.00	1.85	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	91	40445	2.00	1.88	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	67	20508	2.00	1.80	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	38	21945	2.00	1.86	
115 n-Butylbenzene	91	11.301	11.301	0.000	85	33181	2.00	1.81	
116 1,2-Dichlorobenzene	146	11.356	11.350	0.006	75	21087	2.00	1.89	
117 1,2-Dibromo-3-Chloropropan	75	12.074	12.074	0.000	9	1645	2.00	1.65	
119 1,2,4-Trichlorobenzene	180	12.749	12.743	0.006	64	14665	2.00	1.75	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	48	7045	2.00	1.75	
121 Naphthalene	128	12.962	12.962	0.000	86	39667	2.00	1.89	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	71	14510	2.00	1.85	
S 125 1,2-Dichloroethene, Total	1				0			3.81	
S 126 1,3-Dichloropropene, Total	1				0			3.69	
S 123 Total BTEX	1				0			9.43	
S 124 Xylenes, Total	1				0			3.69	

Reagents:

8260 CORP mix_00085	Amount Added: 2.00	Units: uL	
GAS CORP mix_00189	Amount Added: 2.00	Units: uL	
S_8260_IS_00191	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00169	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9066.D

Injection Date: 09-Nov-2016 17:37:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

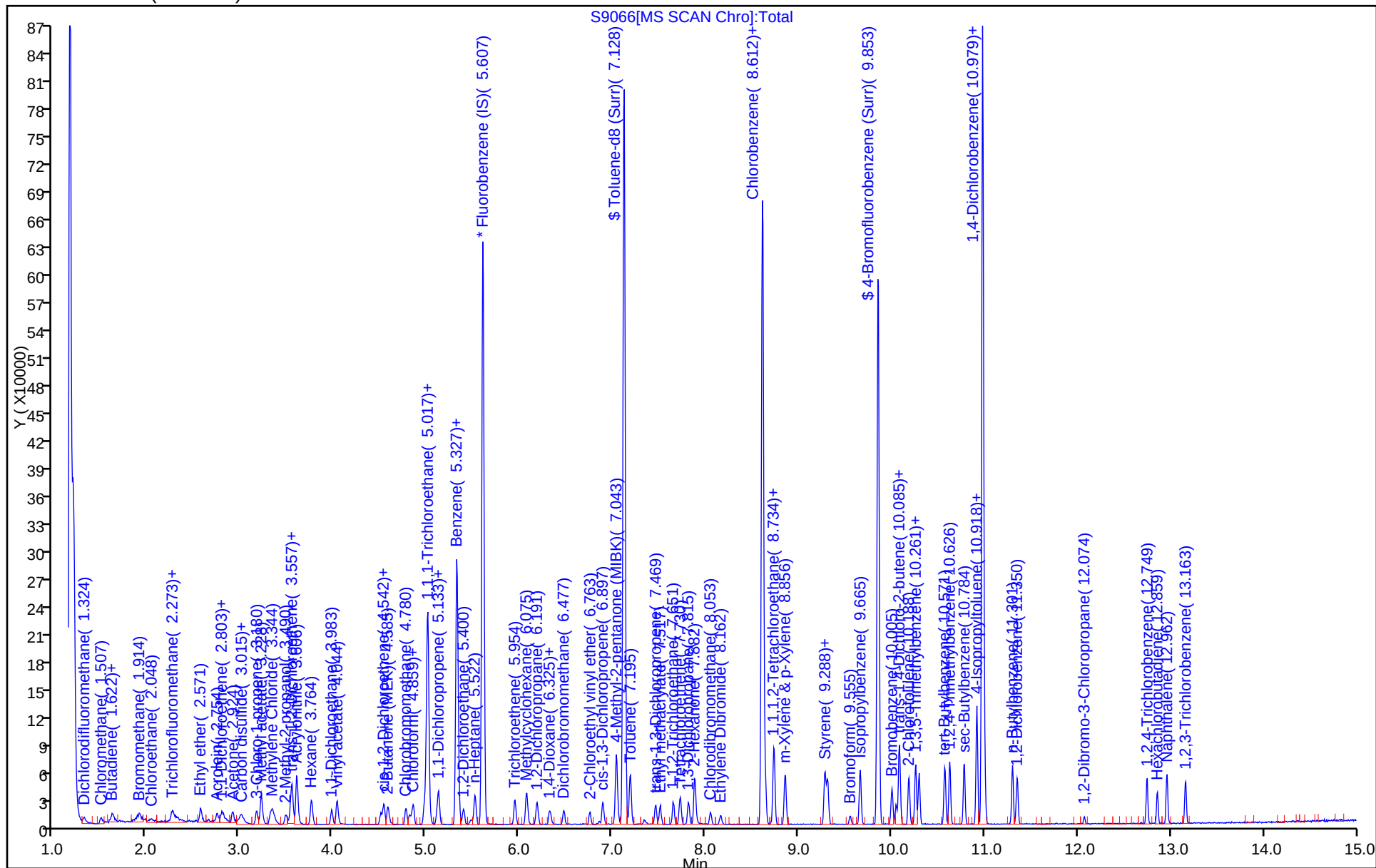
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9067.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Nov-2016 18:00:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 3
 Misc. Info.: 480-0058150-007
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:16:54 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 20:02:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	105186	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	213958	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	91	220294	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.017	0.000	80	122916	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	78590	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	91	528027	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	93	176008	25.0	24.9	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	84	21394	5.00	5.27	
12 Chloromethane	50	1.501	1.501	0.000	83	24461	5.00	5.43	
13 Vinyl chloride	62	1.610	1.610	0.000	59	23354	5.00	5.56	
151 Butadiene	54	1.634	1.634	0.000	87	20131	5.00	5.19	
14 Bromomethane	94	1.926	1.926	0.000	71	13716	5.00	5.33	
15 Chloroethane	64	2.036	2.036	0.000	62	13198	5.00	5.08	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	86	37790	5.00	5.07	
17 Trichlorofluoromethane	101	2.273	2.273	0.000	57	27941	5.00	5.11	
18 Ethyl ether	59	2.577	2.577	0.000	89	20561	5.00	5.05	
20 Acrolein	56	2.754	2.754	0.000	85	20944	25.0	25.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.796	2.796	0.000	42	18903	5.00	5.03	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	70	21637	5.00	5.33	
23 Acetone	43	2.918	2.918	0.000	94	43079	25.0	24.4	
25 Iodomethane	142	2.973	2.973	0.000	73	28029	5.00	4.84	
26 Carbon disulfide	76	3.009	3.009	0.000	95	67091	5.00	4.96	
28 3-Chloro-1-propene	41	3.180	3.180	0.000	82	30720	5.00	4.89	
27 Methyl acetate	43	3.228	3.228	0.000	95	98127	25.0	24.8	
30 Methylene Chloride	84	3.350	3.350	0.000	77	28947	5.00	4.74	
31 2-Methyl-2-propanol	59	3.490	3.490	0.000	94	32988	50.0	48.9	
32 Methyl tert-butyl ether	73	3.551	3.551	0.000	82	72548	5.00	5.01	
34 trans-1,2-Dichloroethene	96	3.563	3.563	0.000	90	22632	5.00	5.07	
33 Acrylonitrile	53	3.606	3.606	0.000	97	103824	50.0	51.5	
35 Hexane	57	3.770	3.770	0.000	88	35764	5.00	4.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	70	42717	5.00	5.26	
37 Vinyl acetate	43	4.044	4.044	0.000	96	97992	10.0	10.1	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	80	17500	5.00	4.83	
45 cis-1,2-Dichloroethene	96	4.542	4.542	0.000	56	24874	5.00	4.98	
43 2-Butanone (MEK)	43	4.585	4.585	0.000	98	65330	25.0	26.0	
48 Chlorobromomethane	128	4.780	4.780	0.000	83	12913	5.00	5.07	
49 Tetrahydrofuran	42	4.822	4.822	0.000	84	17984	10.0	10.4	
50 Chloroform	83	4.859	4.859	0.000	76	40618	5.00	5.17	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	82	28219	5.00	5.18	
52 Cyclohexane	56	4.993	4.993	0.000	90	36822	5.00	4.80	
55 Carbon tetrachloride	117	5.120	5.120	0.000	85	26341	5.00	5.01	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	89	31921	5.00	5.28	
53 Isobutyl alcohol	43	5.339	5.339	0.000	53	33122	125.0	129.3	
57 Benzene	78	5.339	5.339	0.000	88	94339	5.00	5.06	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	60	35692	5.00	5.15	
59 n-Heptane	43	5.528	5.528	0.000	89	36371	5.00	4.89	
62 Trichloroethene	95	5.954	5.954	0.000	84	24497	5.00	5.20	
64 Methylcyclohexane	83	6.075	6.075	0.000	86	39280	5.00	5.05	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	85	22980	5.00	4.98	
67 Dibromomethane	93	6.325	6.325	0.000	82	14395	5.00	5.16	
66 1,4-Dioxane	88	6.343	6.343	0.000	43	6762	100.0	105.0	
68 Dichlorobromomethane	83	6.477	6.477	0.000	80	28242	5.00	5.01	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	76	15187	5.00	5.03	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	73	36558	5.00	5.06	
73 4-Methyl-2-pentanone (MIBK)	43	7.043	7.043	0.000	94	129196	25.0	25.9	
74 Toluene	92	7.195	7.195	0.000	81	63234	5.00	5.18	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	84	32422	5.00	5.00	
75 Ethyl methacrylate	69	7.511	7.511	0.000	66	28009	5.00	4.98	
79 1,1,2-Trichloroethane	83	7.657	7.657	0.000	70	17197	5.00	5.19	
81 Tetrachloroethene	166	7.730	7.730	0.000	88	27306	5.00	5.02	
82 1,3-Dichloropropane	76	7.821	7.821	0.000	86	38168	5.00	5.20	
80 2-Hexanone	43	7.882	7.882	0.000	92	98127	25.0	26.6	
83 Chlorodibromomethane	129	8.059	8.059	0.000	69	21714	5.00	5.01	
84 Ethylene Dibromide	107	8.168	8.168	0.000	75	21697	5.00	5.08	
87 Chlorobenzene	112	8.643	8.643	0.000	90	70834	5.00	5.20	
88 Ethylbenzene	91	8.734	8.734	0.000	97	116177	5.00	5.18	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	36	22143	5.00	5.09	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	46935	5.00	5.14	
91 o-Xylene	106	9.282	9.282	0.000	94	46594	5.00	5.19	
92 Styrene	104	9.312	9.312	0.000	92	75362	5.00	5.21	
95 Bromoform	173	9.555	9.555	0.000	78	13037	5.00	4.95	
94 Isopropylbenzene	105	9.665	9.665	0.000	93	114987	5.00	5.06	
101 Bromobenzene	156	10.005	10.005	0.000	89	30237	5.00	4.96	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	27799	5.00	5.17	
99 N-Propylbenzene	91	10.085	10.085	0.000	97	134204	5.00	5.11	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	35	10230	5.00	5.39	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.097	0.000	37	6756	5.00	4.70	
103 2-Chlorotoluene	126	10.188	10.188	0.000	95	29032	5.00	5.19	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	83	101577	5.00	5.23	
105 4-Chlorotoluene	126	10.297	10.297	0.000	79	29323	5.00	5.03	
106 tert-Butylbenzene	134	10.571	10.571	0.000	88	23125	5.00	5.13	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	71	105912	5.00	5.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.784	10.784	0.000	86	127783	5.00	5.14	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	96	112391	5.00	5.15	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	68	59719	5.00	5.18	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	87	59376	5.00	4.97	
115 n-Butylbenzene	91	11.301	11.301	0.000	92	95846	5.00	5.16	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	94	57583	5.00	5.09	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	35	4873	5.00	4.83	
119 1,2,4-Trichlorobenzene	180	12.749	12.749	0.000	86	43377	5.00	5.10	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	82	18835	5.00	4.63	
121 Naphthalene	128	12.962	12.962	0.000	94	106484	5.00	5.01	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	90	40079	5.00	5.04	
S 125 1,2-Dichloroethene, Total	1				0			10.0	
S 126 1,3-Dichloropropene, Total	1				0			10.1	
S 123 Total BTEX	1				0			25.8	
S 124 Xylenes, Total	1				0			10.3	

Reagents:

8260 CORP mix_00085	Amount Added: 5.00	Units: uL	
GAS CORP mix_00189	Amount Added: 5.00	Units: uL	
S_8260_IS_00191	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00169	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161109-58150.b\\S9067.D

Injection Date: 09-Nov-2016 18:00:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

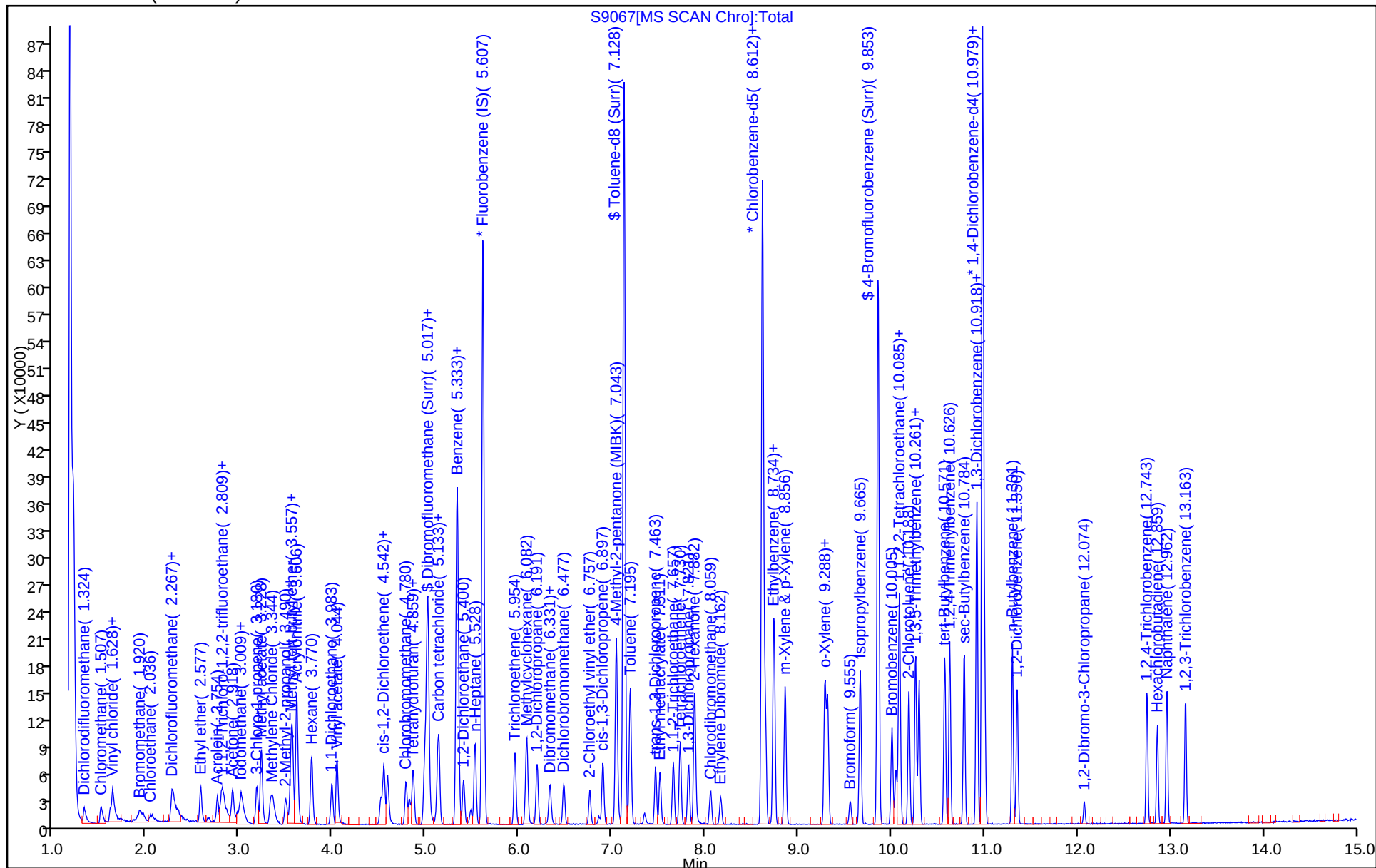
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9068.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Nov-2016 18:23:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 4
 Misc. Info.: 480-0058150-008
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:17:00 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 20:03:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	105028	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	86	215074	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	80	219697	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.017	0.000	81	127088	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	80642	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	91	526767	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	92	178587	25.0	25.1	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	92	41528	10.0	10.2	
12 Chloromethane	50	1.501	1.501	0.000	86	47211	10.0	10.5	
13 Vinyl chloride	62	1.610	1.610	0.000	65	43338	10.0	10.3	
151 Butadiene	54	1.634	1.634	0.000	90	38343	10.0	9.42	
14 Bromomethane	94	1.926	1.926	0.000	85	23410	10.0	9.12	
15 Chloroethane	64	2.054	2.036	0.018	64	25752	10.0	9.94	
16 Dichlorofluoromethane	67	2.273	2.267	0.006	77	73128	10.0	9.83	
17 Trichlorofluoromethane	101	2.273	2.273	0.000	60	56442	10.0	9.82	
18 Ethyl ether	59	2.577	2.577	0.000	87	42351	10.0	10.4	
20 Acrolein	56	2.754	2.754	0.000	94	39722	50.0	47.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.796	2.796	0.000	48	41630	10.0	10.5	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	90	44044	10.0	10.9	
23 Acetone	43	2.918	2.918	0.000	99	83663	50.0	47.4	
25 Iodomethane	142	2.979	2.973	0.006	93	55636	10.0	9.07	
26 Carbon disulfide	76	3.015	3.009	0.006	97	136358	10.0	10.1	
28 3-Chloro-1-propene	41	3.180	3.180	0.000	84	63112	10.0	10.1	
27 Methyl acetate	43	3.222	3.228	-0.006	95	198216	50.0	50.2	
30 Methylene Chloride	84	3.344	3.350	-0.006	85	57690	10.0	11.0	
31 2-Methyl-2-propanol	59	3.490	3.490	0.000	95	71076	100.0	105.5	
32 Methyl tert-butyl ether	73	3.551	3.551	0.000	85	148321	10.0	10.3	
34 trans-1,2-Dichloroethene	96	3.563	3.563	0.000	86	45018	10.0	10.1	
33 Acrylonitrile	53	3.606	3.606	0.000	99	206011	100.0	102.4	
35 Hexane	57	3.770	3.770	0.000	89	75236	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	82	84301	10.0	10.4	
37 Vinyl acetate	43	4.037	4.044	-0.007	97	188237	20.0	19.3	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	89	38240	10.0	10.6	
45 cis-1,2-Dichloroethene	96	4.542	4.542	0.000	68	50695	10.0	10.2	
43 2-Butanone (MEK)	43	4.585	4.585	0.000	94	130005	50.0	51.8	
48 Chlorobromomethane	128	4.780	4.780	0.000	89	26779	10.0	10.5	
49 Tetrahydrofuran	42	4.816	4.822	-0.006	83	34169	20.0	19.8	
50 Chloroform	83	4.859	4.859	0.000	70	80255	10.0	10.2	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	90	56786	10.0	10.4	
52 Cyclohexane	56	4.993	4.993	0.000	90	81985	10.0	10.7	
55 Carbon tetrachloride	117	5.126	5.120	0.006	75	56293	10.0	10.7	
54 1,1-Dichloropropene	75	5.133	5.133	-0.001	91	63289	10.0	10.5	
53 Isobutyl alcohol	43	5.333	5.339	-0.006	57	69036	250.0	269.9	
57 Benzene	78	5.339	5.339	0.000	94	191977	10.0	10.3	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	64	68497	10.0	9.89	
59 n-Heptane	43	5.522	5.528	-0.006	92	73023	10.0	9.83	
62 Trichloroethene	95	5.954	5.954	0.000	89	48823	10.0	10.4	
64 Methylcyclohexane	83	6.082	6.075	0.007	89	81572	10.0	10.5	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	89	47889	10.0	10.4	
67 Dibromomethane	93	6.325	6.325	0.000	90	29362	10.0	10.5	
66 1,4-Dioxane	88	6.343	6.343	0.000	63	13856	200.0	214.1	
68 Dichlorobromomethane	83	6.477	6.477	0.000	90	56445	10.0	10.0	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	87	31764	10.0	10.5	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	79	73158	10.0	10.1	
73 4-Methyl-2-pentanone (MIBK)	43	7.043	7.043	0.000	95	268148	50.0	53.5	
74 Toluene	92	7.195	7.195	0.000	93	125110	10.0	10.2	
77 trans-1,3-Dichloropropene	75	7.469	7.463	0.006	89	66936	10.0	10.3	
75 Ethyl methacrylate	69	7.511	7.511	0.000	71	60459	10.0	10.7	
79 1,1,2-Trichloroethane	83	7.657	7.657	0.000	84	34716	10.0	10.4	
81 Tetrachloroethene	166	7.730	7.730	0.000	86	57211	10.0	10.5	
82 1,3-Dichloropropane	76	7.815	7.821	-0.006	91	76084	10.0	10.3	
80 2-Hexanone	43	7.882	7.882	0.000	92	197519	50.0	53.2	
83 Chlorodibromomethane	129	8.053	8.059	-0.006	86	44934	10.0	10.3	
84 Ethylene Dibromide	107	8.162	8.168	-0.006	90	46252	10.0	10.8	
87 Chlorobenzene	112	8.643	8.643	0.000	92	140820	10.0	10.3	
88 Ethylbenzene	91	8.734	8.734	0.000	98	233497	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	39	46189	10.0	10.6	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	92409	10.0	10.1	
91 o-Xylene	106	9.288	9.282	0.006	96	92448	10.0	10.2	
92 Styrene	104	9.312	9.312	0.000	95	152857	10.0	10.5	
95 Bromoform	173	9.555	9.555	0.000	92	25661	10.0	9.70	
94 Isopropylbenzene	105	9.665	9.665	0.000	94	236845	10.0	10.5	
101 Bromobenzene	156	10.005	10.005	0.000	90	62832	10.0	10.3	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	87	56959	10.0	10.6	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	271510	10.0	10.4	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	41	19675	10.0	10.4	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.097	0.000	38	14722	10.0	9.31	
103 2-Chlorotoluene	126	10.188	10.188	0.000	96	56539	10.0	10.1	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	85	201890	10.0	10.4	
105 4-Chlorotoluene	126	10.297	10.297	0.000	81	58651	10.0	10.1	
106 tert-Butylbenzene	134	10.571	10.571	0.000	86	47218	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	76	204188	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.784	-0.006	93	257613	10.0	10.4	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	97	229465	10.0	10.5	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	70	119362	10.0	10.4	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	94	120692	10.0	10.1	
115 n-Butylbenzene	91	11.301	11.301	0.000	93	194097	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	96	117314	10.0	10.4	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	57	10343	10.0	10.3	
119 1,2,4-Trichlorobenzene	180	12.749	12.749	0.000	93	85372	10.0	10.1	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	91	41532	10.0	10.2	
121 Naphthalene	128	12.962	12.962	0.000	96	218068	10.0	10.3	
122 1,2,3-Trichlorobenzene	180	13.157	13.163	-0.006	94	81075	10.0	10.2	
S 125 1,2-Dichloroethene, Total	1				0			20.3	
S 126 1,3-Dichloropropene, Total	1				0			20.4	
S 123 Total BTEX	1				0			51.2	
S 124 Xylenes, Total	1				0			20.3	

Reagents:

8260 CORP mix_00085	Amount Added: 5.00	Units: uL	
GAS CORP mix_00189	Amount Added: 5.00	Units: uL	
S_8260_IS_00191	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00169	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161109-58150.b\\S9068.D

Injection Date: 09-Nov-2016 18:23:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

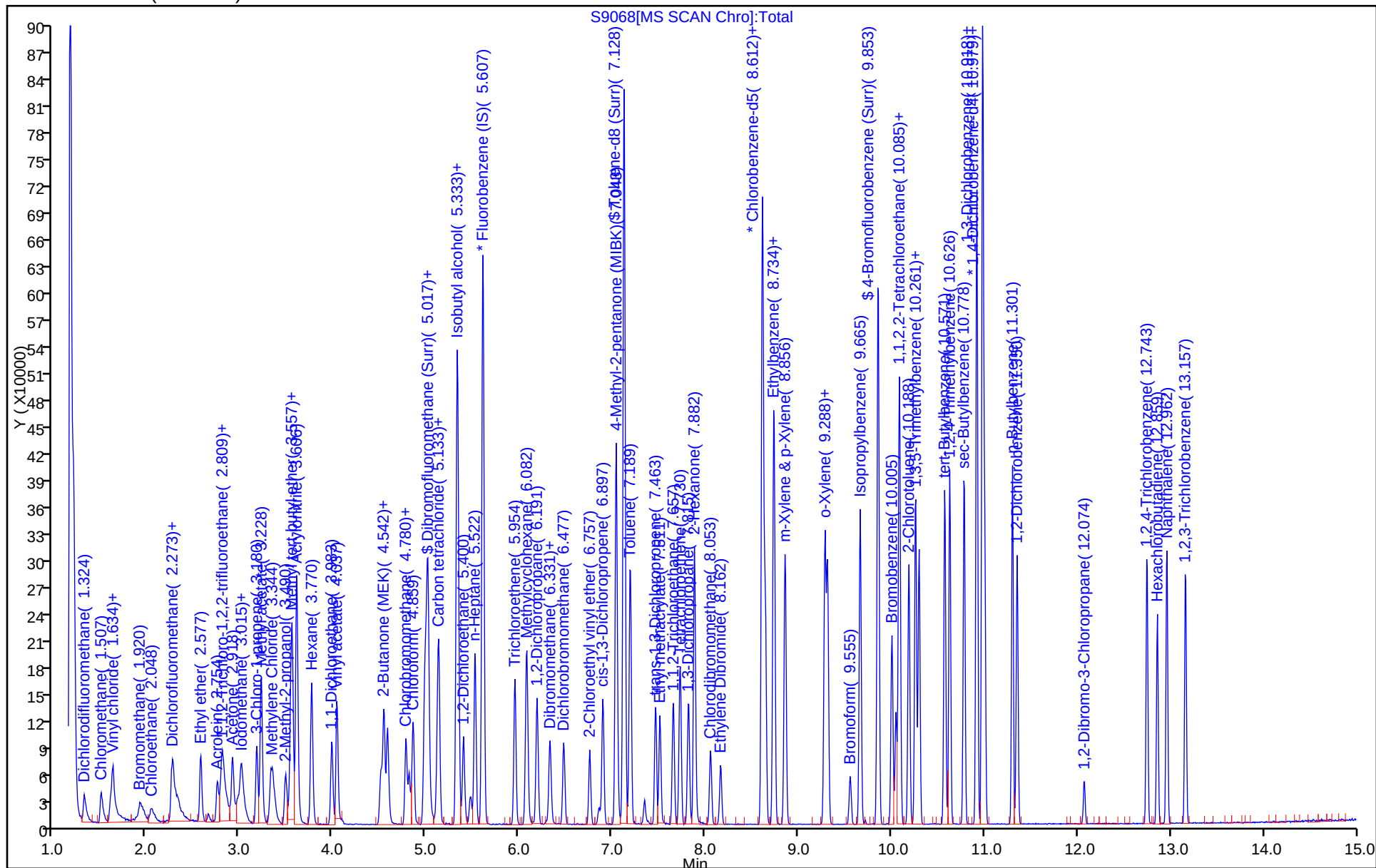
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9069.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 09-Nov-2016 18:46:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis 5
 Misc. Info.: 480-0058150-009
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:17:07 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 11:16:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	104831	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.613	8.613	0.000	84	215209	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	54	219832	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	83	127125	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	80075	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	91	539944	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.860	0.000	93	180844	25.0	25.4	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	85	116172	25.0	28.7	
12 Chloromethane	50	1.507	1.507	0.000	89	123705	25.0	27.6	
13 Vinyl chloride	62	1.604	1.604	0.000	98	120688	25.0	28.8	
151 Butadiene	54	1.629	1.629	0.000	91	112351	25.0	26.7	
14 Bromomethane	94	1.927	1.927	0.000	91	64271	25.0	25.1	
15 Chloroethane	64	2.042	2.042	0.000	92	70729	25.0	27.3	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	80	190603	25.0	25.7	
17 Trichlorofluoromethane	101	2.280	2.280	0.000	67	152681	25.0	25.7	
18 Ethyl ether	59	2.572	2.572	0.000	88	105240	25.0	25.9	
20 Acrolein	56	2.754	2.754	0.000	93	100280	125.0	120.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.791	2.791	0.000	75	108197	25.0	26.4	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	91	114998	25.0	28.4	
23 Acetone	43	2.912	2.912	0.000	100	205653	125.0	116.8	
25 Iodomethane	142	2.979	2.979	0.000	96	163911	25.0	25.7	
26 Carbon disulfide	76	3.010	3.010	0.000	98	347877	25.0	25.8	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	87	157355	25.0	25.1	
27 Methyl acetate	43	3.222	3.222	0.000	96	494949	125.0	125.5	
30 Methylene Chloride	84	3.338	3.338	0.000	90	126127	25.0	25.8	
31 2-Methyl-2-propanol	59	3.484	3.484	0.000	98	182143	250.0	270.7	
32 Methyl tert-butyl ether	73	3.545	3.545	0.000	85	366677	25.0	25.4	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	79	118472	25.0	26.6	
33 Acrylonitrile	53	3.606	3.606	0.000	97	515580	250.0	256.8	
35 Hexane	57	3.764	3.764	0.000	91	188529	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	85	208312	25.0	25.7	
37 Vinyl acetate	43	4.038	4.038	0.000	97	499423	50.0	51.4	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	93	94288	25.0	26.1	
45 cis-1,2-Dichloroethene	96	4.543	4.543	0.000	81	130144	25.0	26.1	
43 2-Butanone (MEK)	43	4.579	4.579	0.000	94	314159	125.0	125.5	
48 Chlorobromomethane	128	4.780	4.780	0.000	90	67019	25.0	26.4	
49 Tetrahydrofuran	42	4.810	4.810	0.000	85	84912	50.0	49.2	
50 Chloroform	83	4.859	4.859	0.000	80	195856	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.981	4.981	0.000	92	146300	25.0	27.0	
52 Cyclohexane	56	4.993	4.993	0.000	91	219010	25.0	28.6	
55 Carbon tetrachloride	117	5.121	5.121	0.000	80	144608	25.0	27.6	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	93	161860	25.0	26.9	
53 Isobutyl alcohol	43	5.333	5.333	0.000	60	179176	625.0	701.7	
57 Benzene	78	5.340	5.340	0.000	97	477122	25.0	25.7	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	73	170889	25.0	24.7	
59 n-Heptane	43	5.522	5.522	0.000	92	186433	25.0	25.1	
62 Trichloroethene	95	5.954	5.954	0.000	91	124473	25.0	26.5	
64 Methylcyclohexane	83	6.076	6.076	0.000	90	210499	25.0	27.1	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	89	115235	25.0	25.1	
67 Dibromomethane	93	6.325	6.325	0.000	87	73719	25.0	26.5	
66 1,4-Dioxane	88	6.337	6.337	0.000	50	35746	500.0	552.0	M
68 Dichlorobromomethane	83	6.477	6.477	0.000	98	147647	25.0	26.3	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	93	83957	25.0	27.9	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	86	190186	25.0	26.4	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	96	639598	125.0	127.6	
74 Toluene	92	7.189	7.189	0.000	93	314984	25.0	25.6	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	96	173466	25.0	26.6	
75 Ethyl methacrylate	69	7.511	7.511	0.000	69	153358	25.0	27.1	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	88	87817	25.0	26.3	
81 Tetrachloroethene	166	7.730	7.730	0.000	87	147217	25.0	26.9	
82 1,3-Dichloropropane	76	7.816	7.816	0.000	92	188095	25.0	25.5	
80 2-Hexanone	43	7.883	7.883	0.000	93	484151	125.0	130.2	
83 Chlorodibromomethane	129	8.053	8.053	0.000	89	117541	25.0	26.9	
84 Ethylene Dibromide	107	8.162	8.162	0.000	98	114983	25.0	26.8	
87 Chlorobenzene	112	8.643	8.643	0.000	93	353678	25.0	25.8	
88 Ethylbenzene	91	8.734	8.734	0.000	98	583762	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	40	117700	25.0	26.9	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	238847	25.0	26.0	
91 o-Xylene	106	9.282	9.282	0.000	97	231159	25.0	25.6	
92 Styrene	104	9.312	9.312	0.000	94	388706	25.0	26.7	
95 Bromoform	173	9.555	9.555	0.000	97	69753	25.0	26.3	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	598155	25.0	26.4	
101 Bromobenzene	156	10.006	10.006	0.000	92	155006	25.0	25.5	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	140049	25.0	26.1	
99 N-Propylbenzene	91	10.085	10.085	0.000	97	686401	25.0	26.2	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	46	48554	25.0	25.6	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.097	0.000	37	39483	25.0	23.6	
103 2-Chlorotoluene	126	10.188	10.188	0.000	97	142779	25.0	25.6	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	86	512945	25.0	26.5	
105 4-Chlorotoluene	126	10.298	10.298	0.000	96	147229	25.0	25.3	
106 tert-Butylbenzene	134	10.571	10.571	0.000	91	121399	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	45	524460	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	94	655951	25.0	26.5	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	97	585136	25.0	26.9	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	69	298476	25.0	26.0	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	303995	25.0	25.5	
115 n-Butylbenzene	91	11.301	11.301	0.000	96	503010	25.0	27.1	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	93	288592	25.0	25.5	
117 1,2-Dibromo-3-Chloropropan	75	12.074	12.074	0.000	74	27267	25.0	27.1	
119 1,2,4-Trichlorobenzene	180	12.743	12.743	0.000	94	217376	25.0	25.6	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	95	107655	25.0	26.5	
121 Naphthalene	128	12.962	12.962	0.000	96	562224	25.0	26.5	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	95	204178	25.0	25.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00085	Amount Added: 12.50	Units: uL	
GAS CORP mix_00189	Amount Added: 12.50	Units: uL	
S_8260_IS_00191	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00169	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161109-58150.b\\S9069.D

Injection Date: 09-Nov-2016 18:46:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: ICIS 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

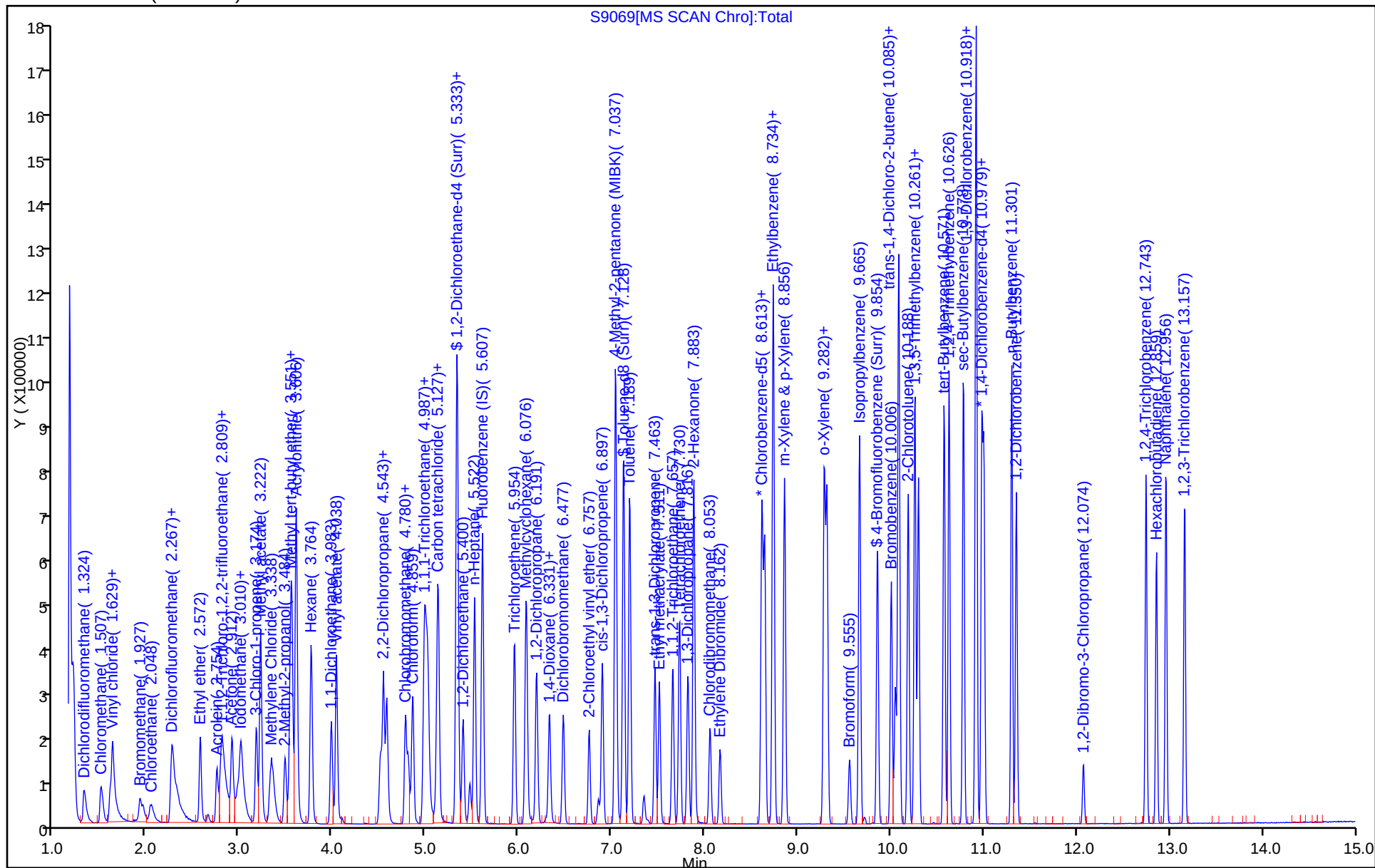
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9069.D

Injection Date: 09-Nov-2016 18:46:30

Instrument ID: HP5973S

Lims ID: ICIS 5

Client ID:

Operator ID: JG

ALS Bottle#:

9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

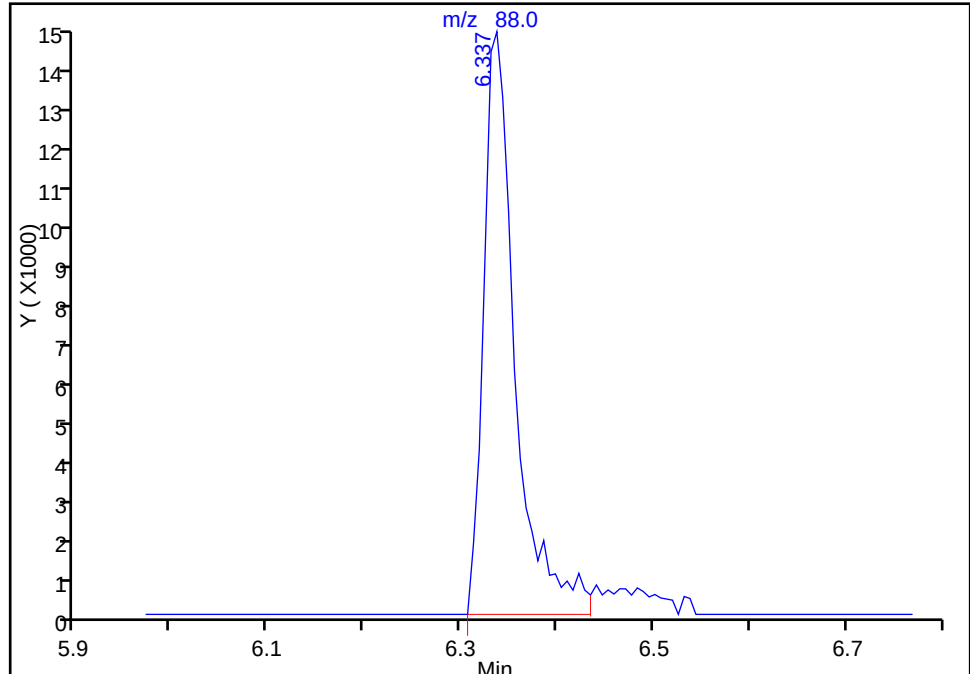
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

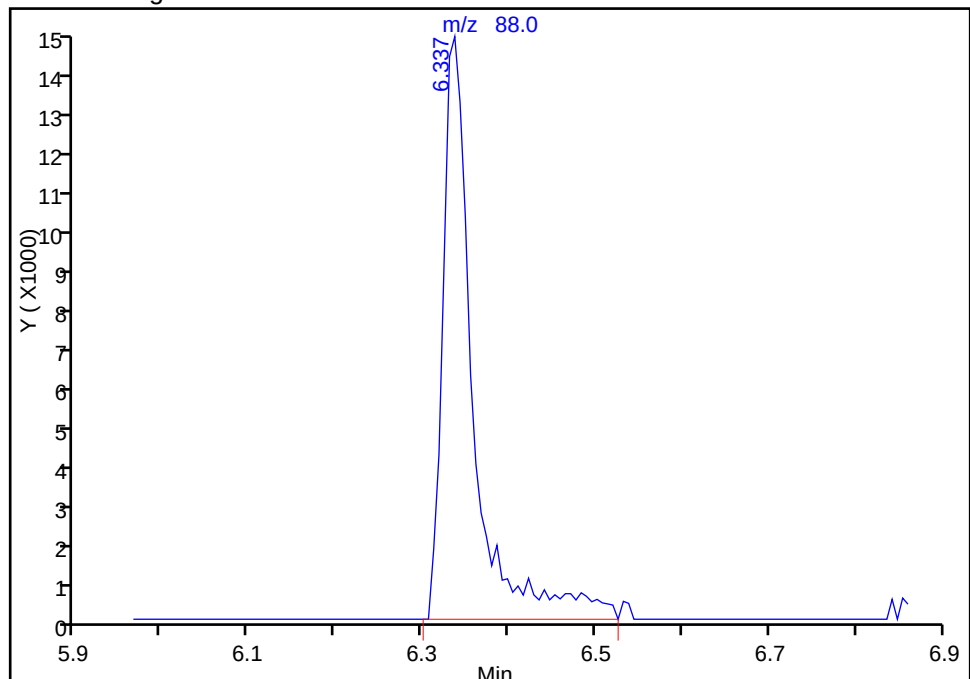
RT: 6.34
Area: 33045
Amount: 532.3250
Amount Units: ug/L

Processing Integration Results



RT: 6.34
Area: 35746
Amount: 551.9869
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 09-Nov-2016 19:54:19

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9070.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Nov-2016 19:10:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 6
 Misc. Info.: 480-0058150-010
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:17:10 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 20:04:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	105399	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.613	8.613	-0.001	84	215813	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	43	217780	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	77	128716	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	79851	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	91	535943	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.860	0.000	92	176230	25.0	24.7	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	87	220584	50.0	54.2	
12 Chloromethane	50	1.507	1.507	0.000	89	233181	50.0	51.7	
13 Vinyl chloride	62	1.610	1.604	0.006	82	227267	50.0	54.0	
151 Butadiene	54	1.635	1.629	0.006	91	217448	50.0	50.8	
14 Bromomethane	94	1.927	1.927	0.000	90	125399	50.0	48.7	
15 Chloroethane	64	2.048	2.042	0.006	93	138972	50.0	53.4	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	81	362441	50.0	48.6	
17 Trichlorofluoromethane	101	2.273	2.280	-0.007	63	291295	50.0	48.4	
18 Ethyl ether	59	2.572	2.572	0.000	90	206573	50.0	50.7	
20 Acrolein	56	2.754	2.754	0.000	96	195620	250.0	234.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.797	2.791	0.006	65	206779	50.0	49.7	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	94	216779	50.0	53.3	
23 Acetone	43	2.912	2.912	0.000	99	388620	250.0	219.6	
25 Iodomethane	142	2.979	2.979	0.000	98	319633	50.0	49.3	
26 Carbon disulfide	76	3.010	3.010	0.000	99	675851	50.0	49.9	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	87	304321	50.0	48.4	
27 Methyl acetate	43	3.222	3.222	0.000	95	961149	250.0	242.4	
30 Methylene Chloride	84	3.344	3.338	0.006	88	237776	50.0	49.7	
31 2-Methyl-2-propanol	59	3.484	3.484	0.000	97	344834	500.0	509.8	
32 Methyl tert-butyl ether	73	3.545	3.545	0.000	85	718917	50.0	49.5	
34 trans-1,2-Dichloroethene	96	3.563	3.557	0.006	94	230370	50.0	51.5	
33 Acrylonitrile	53	3.606	3.606	0.000	97	998253	500.0	494.5	
35 Hexane	57	3.764	3.764	0.000	91	363573	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	97	408320	50.0	50.1	
37 Vinyl acetate	43	4.038	4.038	0.000	97	967226	100.0	99.0	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	94	180633	50.0	49.8	
45 cis-1,2-Dichloroethene	96	4.543	4.543	0.000	68	259058	50.0	51.7	
43 2-Butanone (MEK)	43	4.579	4.579	0.000	94	606855	250.0	241.0	
48 Chlorobromomethane	128	4.780	4.780	0.000	90	131006	50.0	51.4	
49 Tetrahydrofuran	42	4.810	4.810	0.000	85	169574	100.0	97.7	
50 Chloroform	83	4.859	4.859	0.000	79	385807	50.0	49.0	
51 1,1,1-Trichloroethane	97	4.981	4.981	0.000	97	280845	50.0	51.5	
52 Cyclohexane	56	4.993	4.993	0.000	90	416036	50.0	54.1	
55 Carbon tetrachloride	117	5.121	5.121	0.000	79	289384	50.0	54.9	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	91	318082	50.0	52.5	
53 Isobutyl alcohol	43	5.333	5.333	0.000	61	354341	1250.0	1380.2	
57 Benzene	78	5.340	5.340	0.000	97	928534	50.0	49.7	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	72	332565	50.0	47.8	
59 n-Heptane	43	5.522	5.522	0.000	88	352441	50.0	47.3	
62 Trichloroethene	95	5.954	5.954	0.000	95	240982	50.0	51.0	
64 Methylcyclohexane	83	6.082	6.076	0.006	90	404158	50.0	51.8	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	91	230270	50.0	49.8	
67 Dibromomethane	93	6.325	6.325	0.000	90	144816	50.0	51.8	
66 1,4-Dioxane	88	6.337	6.337	0.000	50	67270	1000.0	1035.9	M
68 Dichlorobromomethane	83	6.477	6.477	0.000	92	292441	50.0	51.7	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	91	164413	50.0	54.3	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	89	379513	50.0	52.4	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	96	1228885	250.0	244.5	
74 Toluene	92	7.195	7.189	0.006	97	612785	50.0	49.8	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	95	353186	50.0	54.0	
75 Ethyl methacrylate	69	7.511	7.511	0.000	69	304598	50.0	53.7	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	87	170242	50.0	50.9	
81 Tetrachloroethene	166	7.730	7.730	0.000	88	285227	50.0	52.0	
82 1,3-Dichloropropane	76	7.816	7.816	0.000	93	374901	50.0	50.7	
80 2-Hexanone	43	7.882	7.883	0.000	92	914837	250.0	245.4	
83 Chlorodibromomethane	129	8.053	8.053	0.000	88	238305	50.0	54.5	
84 Ethylene Dibromide	107	8.162	8.162	0.000	96	229133	50.0	53.2	
87 Chlorobenzene	112	8.643	8.643	0.000	94	694119	50.0	50.5	
88 Ethylbenzene	91	8.734	8.734	0.000	98	1127618	50.0	49.9	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	41	238076	50.0	54.3	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	463641	50.0	50.3	
91 o-Xylene	106	9.282	9.282	0.000	97	459389	50.0	50.7	
92 Styrene	104	9.312	9.312	0.000	94	762531	50.0	52.3	
95 Bromoform	173	9.555	9.555	0.000	97	149729	50.0	56.4	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	1152702	50.0	51.3	
101 Bromobenzene	156	10.006	10.006	0.000	92	306684	50.0	50.9	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	81	273820	50.0	51.5	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	1312521	50.0	50.5	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	47	94628	50.0	50.4	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.097	0.000	40	85426	50.0	50.5	
103 2-Chlorotoluene	126	10.188	10.188	0.000	96	274501	50.0	49.6	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	85	986712	50.0	51.4	
105 4-Chlorotoluene	126	10.298	10.298	0.000	96	292786	50.0	50.8	
106 tert-Butylbenzene	134	10.571	10.571	0.000	90	234055	50.0	52.5	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	76	1014618	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	94	1264079	50.0	51.5	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	96	1112670	50.0	51.5	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	70	578964	50.0	50.8	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	591481	50.0	50.0	
115 n-Butylbenzene	91	11.301	11.301	0.000	94	962002	50.0	52.4	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	93	568246	50.0	50.8	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.074	-0.006	73	56932	50.0	57.1	
119 1,2,4-Trichlorobenzene	180	12.743	12.743	0.000	93	441552	50.0	52.5	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	93	213514	50.0	53.1	
121 Naphthalene	128	12.962	12.962	0.000	97	1128618	50.0	53.7	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	94	407308	50.0	51.8	
S 125 1,2-Dichloroethene, Total	1				0			103.2	
S 126 1,3-Dichloropropene, Total	1				0			106.3	
S 123 Total BTEX	1				0			250.4	
S 124 Xylenes, Total	1				0			101.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00085

Amount Added: 25.00

Units: uL

GAS CORP mix_00189

Amount Added: 25.00

Units: uL

S_8260_IS_00191

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00169

Amount Added: 1.00

Units: uL

Run Reagent

Operator ID: JG

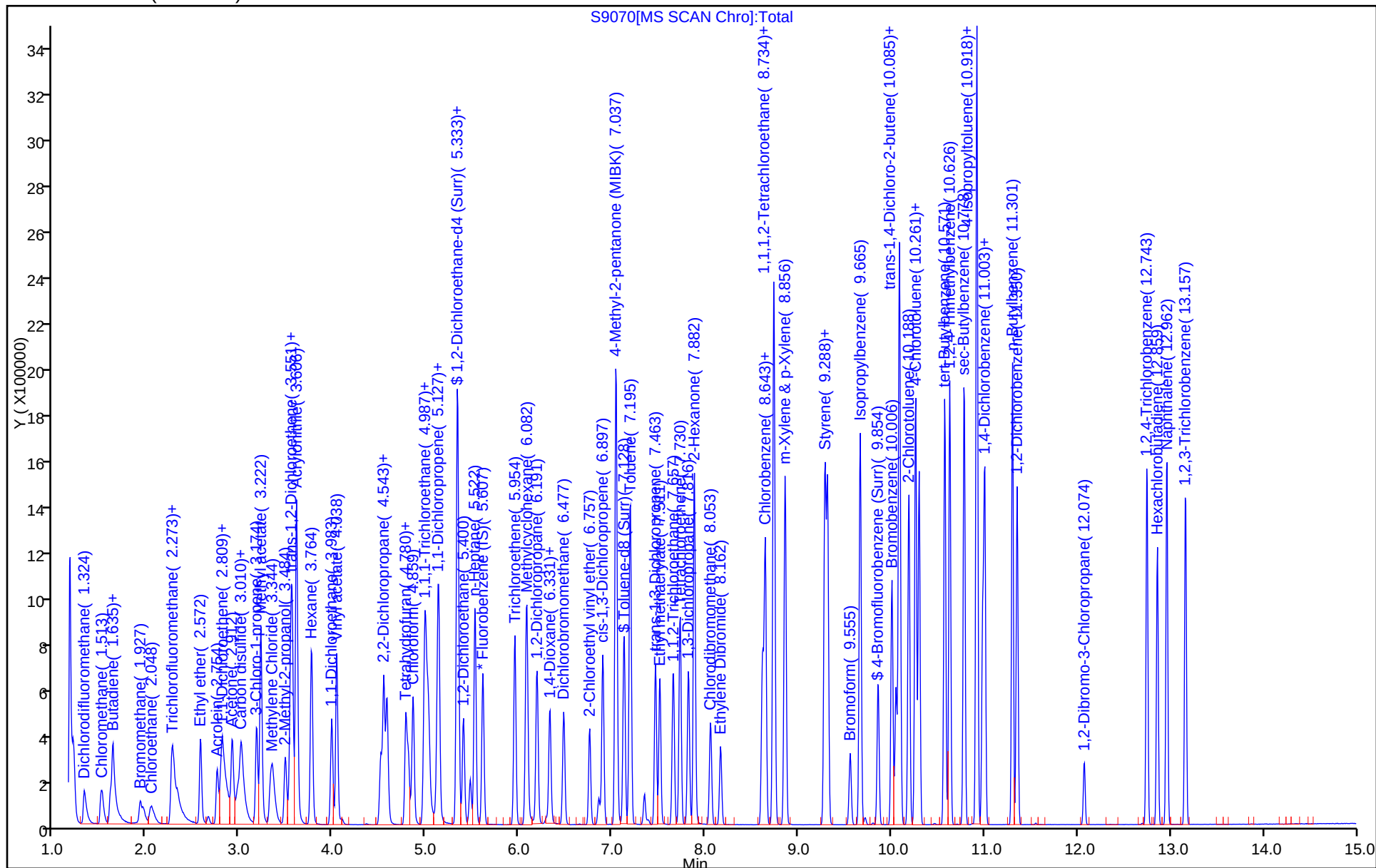
Worklist Smp#: 10

Client ID:

ALS Bottle#: 10

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9070.D

Injection Date: 09-Nov-2016 19:10:30

Instrument ID: HP5973S

Lims ID: IC 6

Client ID:

Operator ID: JG

ALS Bottle#: 10

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

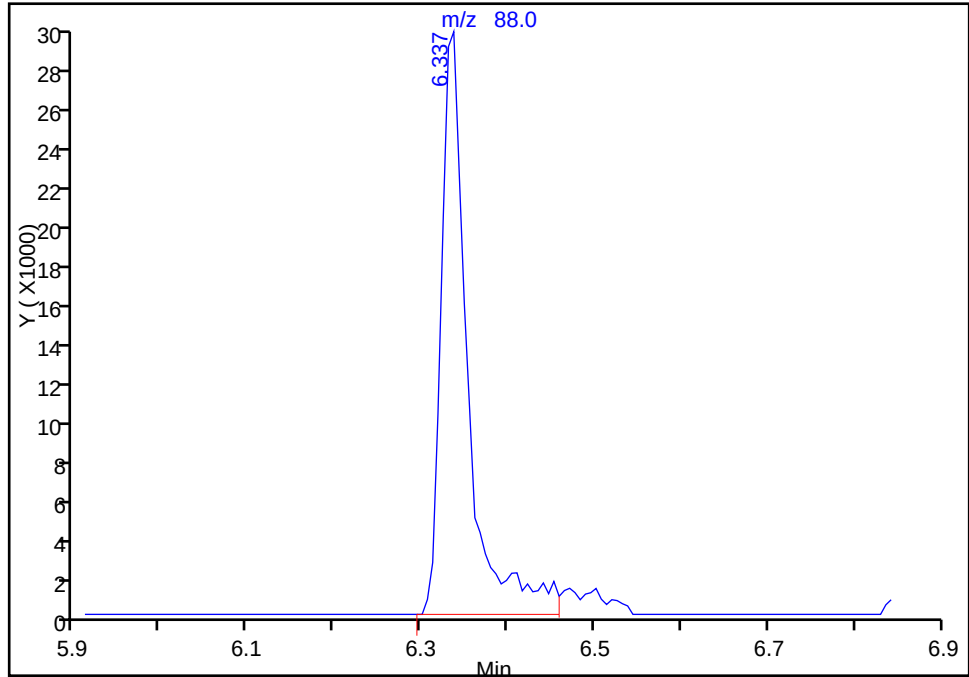
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

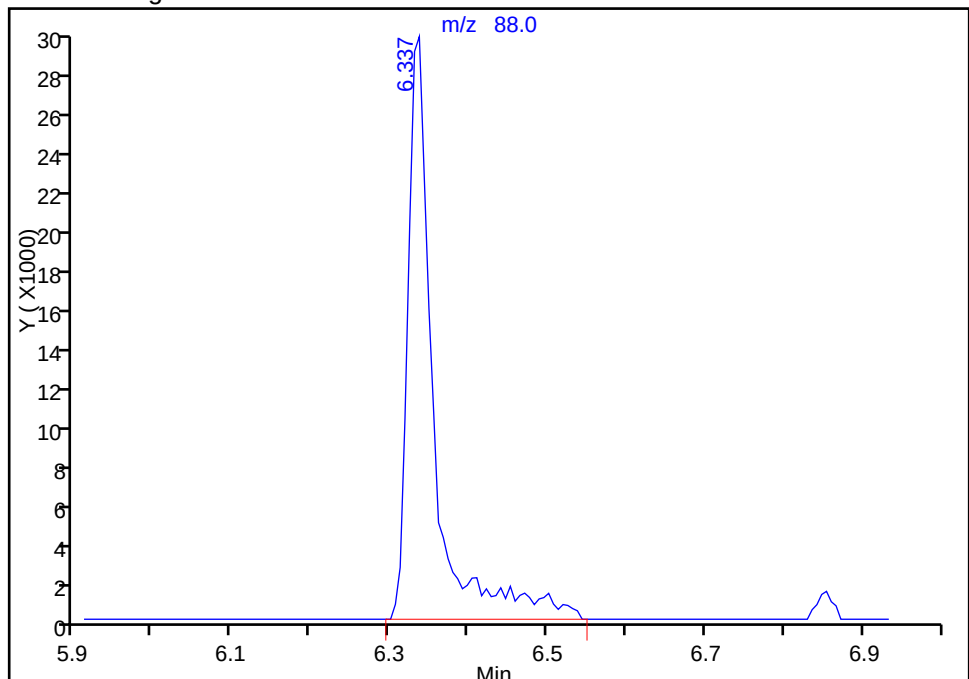
RT: 6.34
Area: 63119
Amount: 1038.9429
Amount Units: ug/L

Processing Integration Results



RT: 6.34
Area: 67270
Amount: 1035.8708
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 09-Nov-2016 20:04:07

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9071.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Nov-2016 19:33:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 7
 Misc. Info.: 480-0058150-011
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:17:15 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: o'briens

Date: 09-Nov-2016 20:08:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	102811	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.613	-0.001	84	214435	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	220348	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	58	126398	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	76467	25.0	24.3	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.128	0.000	90	527432	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.860	9.860	0.000	93	177788	25.0	25.1	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	88	429918	100.0	108.3	
12 Chloromethane	50	1.507	1.507	0.000	99	452887	100.0	102.9	
13 Vinyl chloride	62	1.604	1.604	0.000	80	445726	100.0	108.5	
151 Butadiene	54	1.628	1.629	-0.001	91	410982	100.0	98.0	
14 Bromomethane	94	1.927	1.927	0.000	90	264728	100.0	105.3	
15 Chloroethane	64	2.042	2.042	0.000	95	269715	100.0	106.3	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	81	707263	100.0	97.2	
17 Trichlorofluoromethane	101	2.273	2.280	-0.007	69	595788	100.0	100.9	
18 Ethyl ether	59	2.571	2.572	-0.001	91	387235	100.0	97.4	
20 Acrolein	56	2.754	2.754	0.000	98	376384	500.0	461.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.791	-0.001	89	402237	100.0	98.5	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	84	443426	100.0	111.8	
23 Acetone	43	2.912	2.912	0.000	100	737652	500.0	427.3	
25 Iodomethane	142	2.979	2.979	0.000	96	643635	100.0	101.1	
26 Carbon disulfide	76	3.009	3.010	-0.001	99	1301135	100.0	98.5	
28 3-Chloro-1-propene	41	3.180	3.174	0.006	88	565289	100.0	92.1	
27 Methyl acetate	43	3.222	3.222	0.000	95	1774084	500.0	458.7	
30 Methylene Chloride	84	3.338	3.338	0.000	88	454905	100.0	98.9	
31 2-Methyl-2-propanol	59	3.484	3.484	0.000	98	654454	1000.0	991.9	
32 Methyl tert-butyl ether	73	3.545	3.545	0.000	85	1370157	100.0	96.8	
34 trans-1,2-Dichloroethene	96	3.563	3.557	0.006	96	437397	100.0	100.2	
33 Acrylonitrile	53	3.606	3.606	0.000	97	1835523	1000.0	932.0	
35 Hexane	57	3.770	3.764	0.006	91	654308	100.0	93.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	85	768493	100.0	96.8	
37 Vinyl acetate	43	4.038	4.038	0.000	97	1862803	200.0	195.5	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	92	328447	100.0	92.8	
45 cis-1,2-Dichloroethene	96	4.549	4.543	0.006	67	483602	100.0	99.0	
43 2-Butanone (MEK)	43	4.573	4.579	-0.006	94	1162877	500.0	473.5	
48 Chlorobromomethane	128	4.780	4.780	0.000	95	254323	100.0	102.2	
49 Tetrahydrofuran	42	4.804	4.810	-0.006	86	323950	200.0	191.4	
50 Chloroform	83	4.859	4.859	0.000	80	735194	100.0	95.8	
51 1,1,1-Trichloroethane	97	4.980	4.981	-0.001	92	537506	100.0	101.0	
52 Cyclohexane	56	4.993	4.993	0.000	90	771935	100.0	102.9	
55 Carbon tetrachloride	117	5.120	5.121	-0.001	80	549451	100.0	106.9	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	93	592644	100.0	100.4	
53 Isobutyl alcohol	43	5.333	5.333	0.000	64	669929	2500.0	2675.2	
57 Benzene	78	5.339	5.340	-0.001	97	1742306	100.0	95.6	
58 1,2-Dichloroethane	62	5.400	5.400	0.000	73	634303	100.0	93.6	
59 n-Heptane	43	5.522	5.522	0.000	87	648048	100.0	89.1	
62 Trichloroethene	95	5.954	5.954	0.000	95	456389	100.0	99.1	
64 Methylcyclohexane	83	6.082	6.076	0.006	90	726393	100.0	95.5	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	91	435458	100.0	96.6	
67 Dibromomethane	93	6.325	6.325	0.000	88	278377	100.0	102.1	
66 1,4-Dioxane	88	6.331	6.337	-0.006	37	132026	2000.0	2046.1	
68 Dichlorobromomethane	83	6.477	6.477	0.000	93	572931	100.0	103.9	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	92	319563	100.0	108.3	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	89	736091	100.0	104.2	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	94	2254897	500.0	451.5	
74 Toluene	92	7.195	7.189	0.006	99	1165370	100.0	95.2	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	91	689238	100.0	106.0	
75 Ethyl methacrylate	69	7.511	7.511	0.000	70	600098	100.0	106.4	
79 1,1,2-Trichloroethane	83	7.657	7.651	0.006	86	330959	100.0	99.6	
81 Tetrachloroethene	166	7.730	7.730	0.000	94	540457	100.0	99.2	
82 1,3-Dichloropropane	76	7.815	7.816	-0.001	93	705939	100.0	96.0	
80 2-Hexanone	43	7.882	7.883	0.000	91	1670872	500.0	451.1	
83 Chlorodibromomethane	129	8.059	8.053	0.006	88	476429	100.0	109.6	
84 Ethylene Dibromide	107	8.162	8.162	0.000	98	437069	100.0	102.2	
87 Chlorobenzene	112	8.643	8.643	0.000	94	1323782	100.0	97.0	
88 Ethylbenzene	91	8.734	8.734	0.000	98	2131458	100.0	94.9	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	42	465036	100.0	106.7	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	894995	100.0	97.8	
91 o-Xylene	106	9.288	9.282	0.006	96	883258	100.0	98.1	
92 Styrene	104	9.312	9.312	0.000	95	1475641	100.0	101.8	
95 Bromoform	173	9.555	9.555	0.000	98	304885	100.0	115.6	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	2176445	100.0	95.8	
101 Bromobenzene	156	10.006	10.006	0.000	92	594349	100.0	97.4	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	530236	100.0	98.6	
99 N-Propylbenzene	91	10.085	10.085	0.000	97	2462221	100.0	93.7	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	48	184316	100.0	97.1	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.097	0.000	42	175367	100.0	101.7	
103 2-Chlorotoluene	126	10.188	10.188	0.000	97	543706	100.0	97.2	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	85	1875497	100.0	96.6	
105 4-Chlorotoluene	126	10.298	10.298	0.000	95	566019	100.0	97.1	
106 tert-Butylbenzene	134	10.577	10.571	0.006	91	458035	100.0	101.5	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	76	1917735	100.0	95.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.784	10.778	0.006	94	2361248	100.0	95.0	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	94	2087197	100.0	95.6	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	72	1112818	100.0	96.5	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	94	1149406	100.0	96.1	
115 n-Butylbenzene	91	11.301	11.301	0.000	94	1804441	100.0	97.1	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	1096554	100.0	96.8	
117 1,2-Dibromo-3-Chloropropan	75	12.074	12.074	0.000	86	117638	100.0	116.5	
119 1,2,4-Trichlorobenzene	180	12.749	12.743	0.006	94	871189	100.0	102.4	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	94	416991	100.0	102.5	
121 Naphthalene	128	12.962	12.962	0.000	97	2210878	100.0	103.9	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	93	823929	100.0	103.6	
S 125 1,2-Dichloroethene, Total	1				0			199.2	
S 126 1,3-Dichloropropene, Total	1				0			210.1	
S 123 Total BTEX	1				0			481.7	
S 124 Xylenes, Total	1				0			195.9	

Reagents:

8260 CORP mix_00085	Amount Added: 50.00	Units: uL	
GAS CORP mix_00189	Amount Added: 50.00	Units: uL	
S_8260_IS_00191	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00169	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161109-58150.b\\S9071.D

Injection Date: 09-Nov-2016 19:33:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 7

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

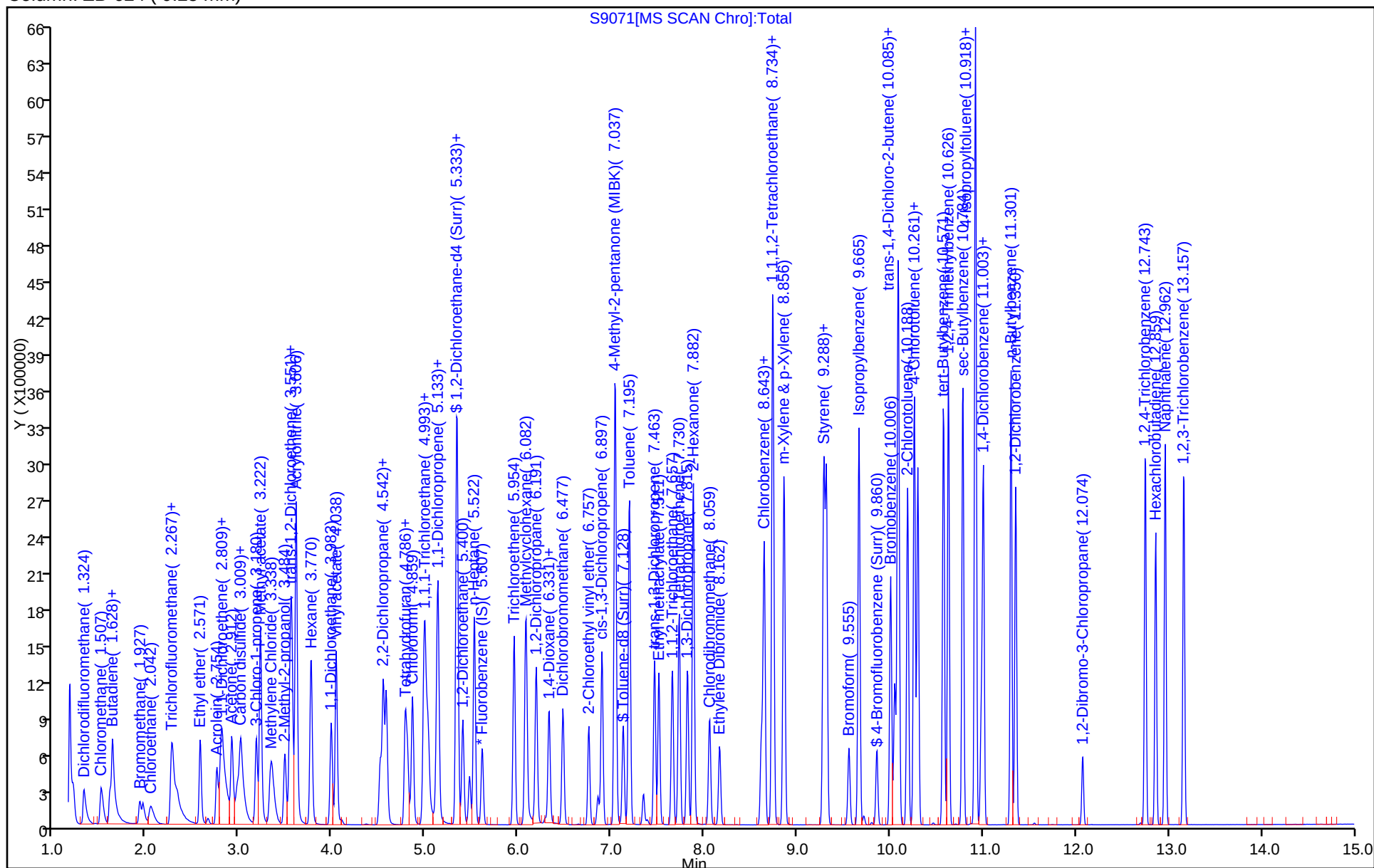
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 21:28 Calibration End Date: 11/09/2016 23:47 Calibration ID: 28811

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-330658/17	S9076.D
Level 2	IC 480-330658/18	S9077.D
Level 3	IC 480-330658/19	S9078.D
Level 4	IC 480-330658/20	S9079.D
Level 5	IC 480-330658/21	S9080.D
Level 6	IC 480-330658/22	S9081.D
Level 7	IC 480-330658/23	S9082.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								
Chlorodifluoromethane	0.9345 1.1395	1.1454 1.3537	1.3666	1.1642	1.3634	Ave		1.2096				13.3		20.0			
Ethanol	++++ 0.0103	0.0160 0.0099	0.0118	0.0107	0.0125	Lin1	0.2830	0.0103							0.9930		0.9900
Isopropyl alcohol	0.0878 0.0904	0.1036 0.0840	0.0873	0.0931	0.0942	Ave		0.0915				7.0		20.0			
Acetonitrile	0.1180 0.0790	0.1103 0.0784	0.0846	0.0890	0.0874	Ave		0.0924				16.8		20.0			
Isopropyl ether	3.5393 3.3594	3.5011 3.3764	3.5753	3.4559	3.5689	Ave		3.4823				2.5		20.0			
Chloroprene	1.5307 1.5911	1.7165 1.8093	1.8204	1.5721	1.8846	Ave		1.7035				8.2		20.0			
1,1-Dimethoxyethane	0.1768 0.2395	0.2212 0.2403	0.2155	0.2290	0.2451	Ave		0.2239				10.4		20.0			
Tert-butyl ethyl ether	3.6179 3.5644	3.7636 3.5565	3.7119	3.6204	3.7524	Ave		3.6553				2.4		20.0			
Ethyl acetate	1.0073 1.1892	1.3017 1.1737	1.2212	1.1550	1.2325	Ave		1.1829				7.7		20.0			
Propionitrile	0.1885 0.1971	0.1932 0.1890	0.2045	0.2055	0.2053	Ave		0.1976				3.8		20.0			
Methacrylonitrile	0.8022 0.7349	0.8188 0.6899	0.7808	0.7816	0.7833	Ave		0.7702				5.7		20.0			
Isooctane	2.8076 3.1267	3.4841 3.1311	3.8535	3.3903	3.6248	Ave		3.3454				10.5		20.0			
t-Amyl alcohol	0.1264 0.1406	0.1309 0.1328	0.1318	0.1435	0.1427	Ave		0.1355				4.9		15.0			
Tert-amyl methyl ether	4.2037 4.0076	4.1693 3.9528	4.0760	3.9408	4.1824	Ave		4.0761				2.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2016 21:28 Calibration End Date: 11/09/2016 23:47 Calibration ID: 28811

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								
1,4-Difluorobenzene	3.3503 3.2711	3.5810 3.4458	3.6509	3.2714	3.6480	Ave		3.4598				4.9		20.0			
n-Butanol	++++ 0.0461	0.0431 0.0444	0.0354	0.0399	0.0457	Ave		0.0424				9.7		20.0			
Ethyl acrylate	++++ 1.6158	1.6332 1.6041	1.6291	1.4943	1.6741	Ave		1.6084				3.8		20.0			
Methyl methacrylate	1.1698 1.0665	1.1404 1.0590	1.1121	1.1220	1.0997	Ave		1.1099				3.5		20.0			
2-Nitropropane	0.1209 0.1610	0.1358 0.1668	0.1385	0.1480	0.1484	Ave		0.1456				10.7		20.0			
Epichlorohydrin	++++ 0.1407	0.1231 0.1383	0.1353	0.1413	0.1420	Ave		0.1368				5.2		20.0			
2-Methylthiophene	2.0289 1.9154	1.7547 1.8526	1.8708	1.8133	1.9167	Ave		1.8789				4.6		20.0			
3-Methylthiophene	1.9448 1.9454	1.8447 2.0539	2.0404	1.8879	2.0163	Ave		1.9619				4.0		20.0			
n-Butyl acetate	1.9190 1.8303	1.8137 1.7680	1.7945	1.7886	1.8974	Ave		1.8302			0.1000	3.1		20.0			
1-Chlorohexane	1.5014 0.4740	0.9892 0.5169	0.6249	0.5146	0.5576	Lin1	0.4969	0.5006							0.9970		0.9900
3-Chlorobenzotrifluoride	0.6891 0.7779	0.8451 0.8599	0.9573	0.7571	0.9013	Ave		0.8268				11.1		20.0			
4-Chlorobenzotrifluoride	0.7511 0.7670	0.7148 0.8314	0.8257	0.7420	0.8380	Ave		0.7814				6.4		20.0			
2-Chlorobenzotrifluoride	0.8725 0.8325	0.8360 0.8868	0.8926	0.8120	0.9199	Ave		0.8646				4.5		20.0			
Cyclohexanone	++++ 0.0278	0.0285 0.0250	0.0249	0.0278	0.0262	Ave		0.0267				5.9		20.0			
3-Chlorotoluene	0.6524 0.6456	0.6353 0.6528	0.6598	0.6202	0.6754	Ave		0.6488				2.7		20.0			
Pentachloroethane	0.2670 0.2850	0.2802 0.2757	0.2833	0.2937	0.2948	Ave		0.2828				3.5		20.0			
Dicyclopentadiene	++++ 2.3945	2.7734 2.4832	2.4952	2.3118	2.5919	Ave		2.5084				6.4		20.0			
1,2,3-Trimethylbenzene	2.3185 2.3145	2.3677 2.2876	2.3644	2.3347	2.4623	Ave		2.3499				2.4		20.0			
Benzyl chloride	++++ 0.2881	0.2081 0.2900	0.2139	0.2510	0.2697	Ave		0.2535				14.1		20.0			
1,3,5-Trichlorobenzene	1.0385 1.0357	1.0271 1.0370	1.0236	0.9920	1.0868	Ave		1.0344				2.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 11/09/2016 21:28 Calibration End Date: 11/09/2016 23:47 Calibration ID: 28811

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
2-Methylnaphthalene	1.2701 1.7523	1.2445 1.7690	1.3552	1.4992	1.6650	Ave		1.5079				14.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 21:28 Calibration End Date: 11/09/2016 23:47 Calibration ID: 28811

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-330658/17	S9076.D
Level 2	IC 480-330658/18	S9077.D
Level 3	IC 480-330658/19	S9078.D
Level 4	IC 480-330658/20	S9079.D
Level 5	IC 480-330658/21	S9080.D
Level 6	IC 480-330658/22	S9081.D
Level 7	IC 480-330658/23	S9082.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
Chlorodifluoromethane	FB	Ave	1889 232826	4525 547595	27641	47329	135034	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Lin1	++++ 84143	2533 160388	9544	17321	49580	++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	1774 184653	4092 339703	17653	37856	93264	5.00 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	2385 161367	4357 317183	17118	36172	86554	5.00 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	7154 686403	13831 1365784	72315	140491	353462	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	3094 325091	6781 731896	36820	63908	186645	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	1787 244655	4370 485923	21795	46547	121350	2.50 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	7313 728299	14868 1438643	75077	147178	371637	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	4072 485950	10285 949556	49398	93905	244123	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	3810 402653	7632 764471	41371	83544	203327	5.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	16216 1501649	32346 2790529	157924	317758	775725	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	5675 638865	13764 1266536	77940	137823	359000	0.500 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	2554 287333	5173 537113	26654	58349	141288	5.00 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	8497 818849	16471 1598956	82442	160203	414225	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	6772 668367	14147 1393867	73844	132992	361295	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2016 21:28 Calibration End Date: 11/09/2016 23:47 Calibration ID: 28811

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
n-Butanol	FB	Ave	+++++ 235299	4253 448677	17884	40501	113069	+++++ 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	+++++ 330156	6452 648884	32950	60745	165801	+++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	4729 435837	9010 856757	44986	91228	217827	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCBd 4	Ave	1030 136475	2326 288718	12052	25366	62776	1.00 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	+++++ 287421	4862 559375	27366	57462	140589	+++++ 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCBd 4	Ave	8639 811725	15028 1603146	81386	155443	405428	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCBd 4	Ave	8281 824453	15799 1777354	88763	161835	426492	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	FB	Ave	3879 373975	7165 715169	36295	72712	187917	0.500 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBNZ d5	Lin1	6418 198571	8104 439521	26669	42901	114560	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCBd 4	Ave	2934 329681	7238 744140	41648	64902	190636	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCBd 4	Ave	3198 325056	6122 719443	35922	63603	177257	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCBd 4	Ave	3715 352801	7160 767350	38831	69610	194577	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCBd 4	Ave	+++++ 117755	2443 216199	10826	23852	55354	+++++ 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCBd 4	Ave	2778 273616	5441 564870	28703	53169	142863	0.500 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCBd 4	Ave	1137 120777	2400 238564	12324	25180	62362	0.500 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCBd 4	Ave	+++++ 1014790	23753 2148855	108549	198179	548246	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	9872 980861	20278 1979529	102860	200139	520822	0.500 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBNZ d5	Ave	+++++ 120682	1705 246619	9128	20925	55400	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	4422 438942	8797 897379	44529	85038	229877	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCBd 4	Ave	5408 742629	10659 1530790	58956	128513	352185	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1 Analy Batch No.: 330658
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2016 21:28 Calibration End Date: 11/09/2016 23:47 Calibration ID: 28811

Curve Type Legend:

Ave = Average ISTD Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9076.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Nov-2016 21:28:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 8
 Misc. Info.: 480-0058150-017
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 13:10:42 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 13:09:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.613	-0.006	98	101066	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	87	213727	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	95	212900	25.0	25.0	
11 Chlorodifluoromethane	51	1.355	1.349	0.006	8	1889	0.5000	0.3863	
148 Ethanol	45	2.577	2.565	0.012	37	1275	20.0	3.16	
19 Propene oxide	58	2.663	2.663	0.000	0	2996	NC	NC	M
24 Isopropyl alcohol	45	3.113	3.101	0.012	28	1774	5.00	4.80	
29 Acetonitrile	40	3.222	3.229	-0.006	57	2385	5.00	6.39	
36 Isopropyl ether	45	4.007	4.001	0.006	76	7154	0.5000	0.5082	
40 2-Chloro-1,3-butadiene	53	4.050	4.050	0.000	25	3094	0.5000	0.4493	
38 1,1-Dimethoxyethane	75	4.086	4.080	0.006	63	1787	2.50	1.97	
41 Tert-butyl ethyl ether	59	4.354	4.348	0.006	73	7313	0.5000	0.4949	
42 Ethyl acetate	43	4.634	4.616	0.018	60	4072	1.00	0.8515	
46 Propionitrile	54	4.688	4.676	0.012	26	3810	5.00	4.77	
47 Methacrylonitrile	41	4.798	4.792	0.006	80	16216	5.00	5.21	
152 Isooctane	57	5.345	5.346	-0.001	22	5675	0.5000	0.4196	
147 t-Amyl alcohol	59	5.400	5.400	0.000	20	2554	5.00	4.66	
56 Tert-amyl methyl ether	73	5.425	5.413	0.013	70	8497	0.5000	0.5157	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	9	6772	0.5000	0.4842	
60 n-Butanol	56	5.972	5.960	0.012	3	1664	12.5	9.71	
142 Ethyl acrylate	55		6.070				ND	ND	
63 Methyl methacrylate	41	6.295	6.289	0.006	43	4729	1.00	1.05	
70 2-Nitropropane	43	6.726	6.727	-0.001	1	1030	1.00	0.8305	M
71 Epichlorohydrin	57		6.848				ND	ND	
76 2-Methylthiophene	97	7.323	7.329	-0.006	42	8639	0.5000	0.5399	
78 3-Methylthiophene	97	7.493	7.493	0.000	25	8281	0.5000	0.4956	
155 n-Butyl acetate	43	7.998	7.992	0.006	55	3879	0.5000	0.5243	
146 1-Chlorohexane	55	8.612	8.588	0.024	7	6418	0.5000	0.5070	
85 3-Chlorobenzotrifluoride	180	8.612	8.606	0.006	1	2934	0.5000	0.4167	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	1	3198	0.5000	0.4806	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	11	3715	0.5000	0.5046	
96 Cyclohexanone	55	9.823	9.829	-0.006	0	1517	5.00	6.67	M
104 3-Chlorotoluene	126	10.255	10.249	0.006	31	2778	0.5000	0.5028	
108 Pentachloroethane	167	10.626	10.632	-0.006	0	1137	0.5000	0.4721	
114 Dicyclopentadiene	66	10.979	10.985	-0.006	38	13842	0.5000	0.6480	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	2	9872	0.5000	0.4933	
150 Benzyl chloride	126	11.143	11.143	0.000	0	769	0.5000	0.3549	M
118 1,3,5-Trichlorobenzene	180	12.214	12.208	0.006	15	4422	0.5000	0.5020	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	22	5408	0.5000	0.4211	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00052	Amount Added: 0.50	Units: uL
2MTP_WRK_00056	Amount Added: 0.50	Units: uL
3MTP_WRK_00058	Amount Added: 0.50	Units: uL
S_8260_IS_00191	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9076.D

Injection Date: 09-Nov-2016 21:28:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 8

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

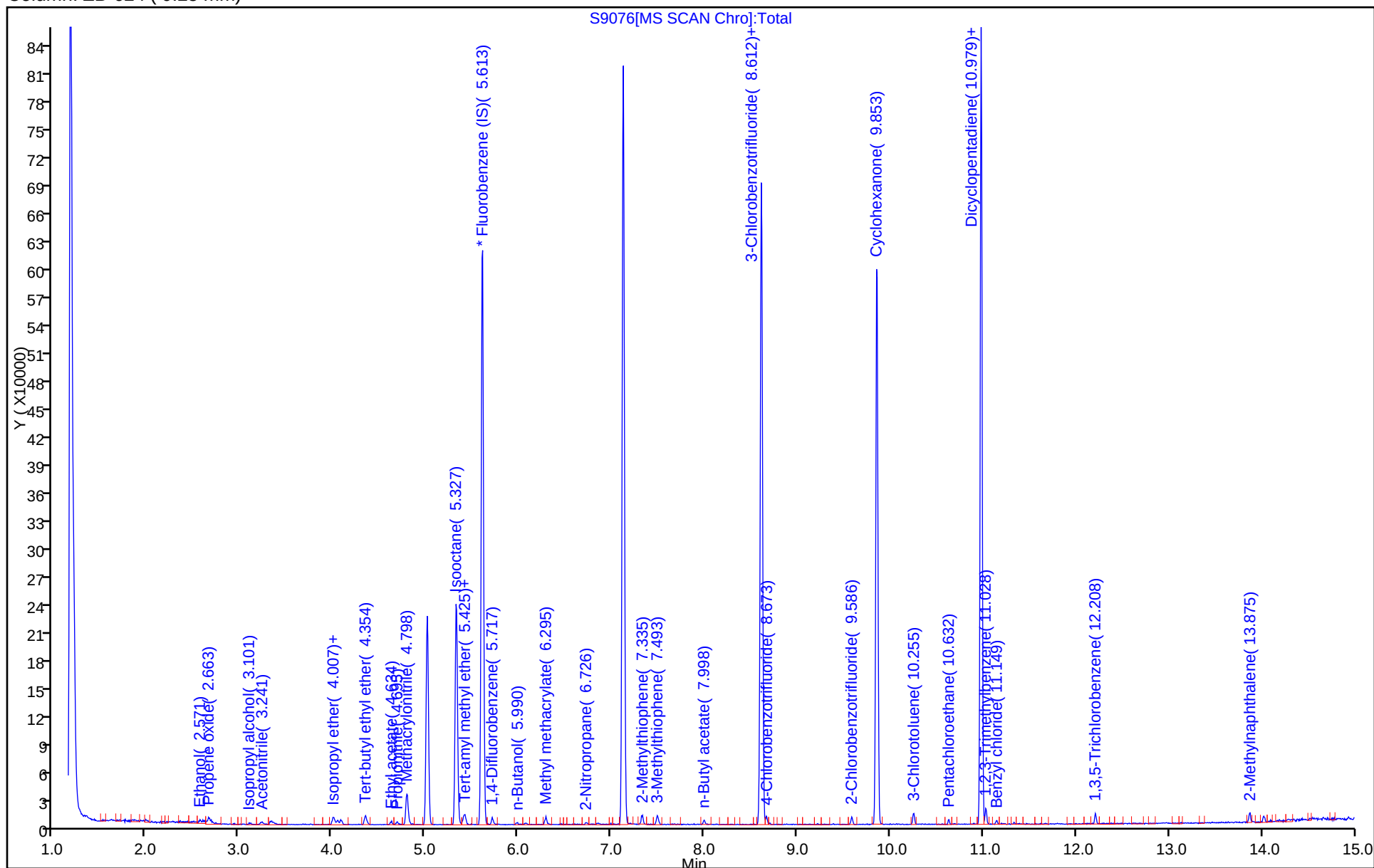
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9076.D

Injection Date: 09-Nov-2016 21:28:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: JG

ALS Bottle#:

16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

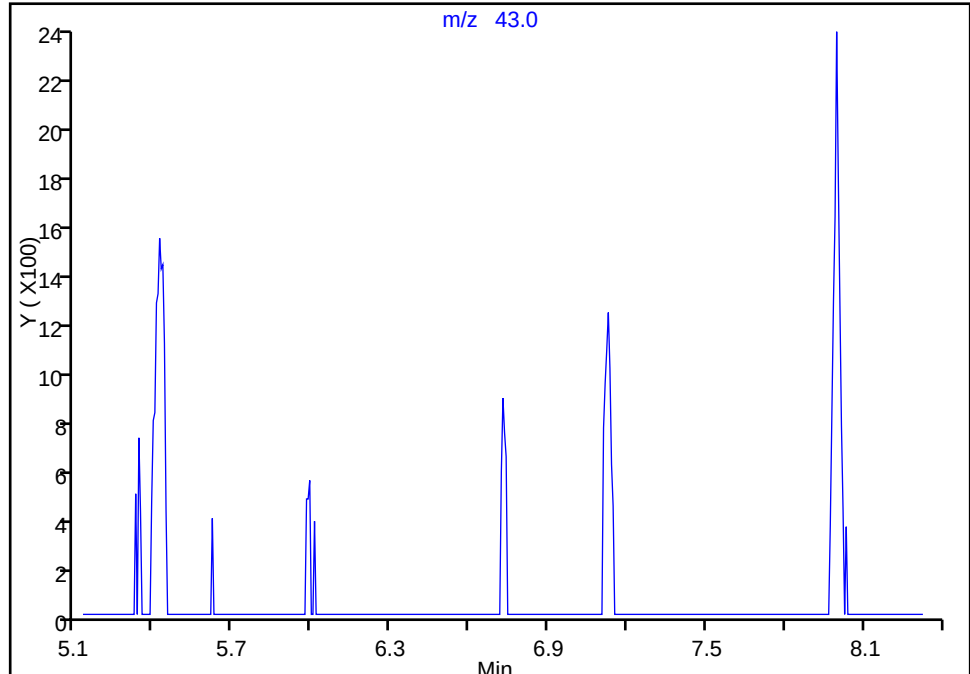
70 2-Nitropropane, CAS: 79-46-9

Signal: 1

Not Detected

Expected RT: 6.73

Processing Integration Results



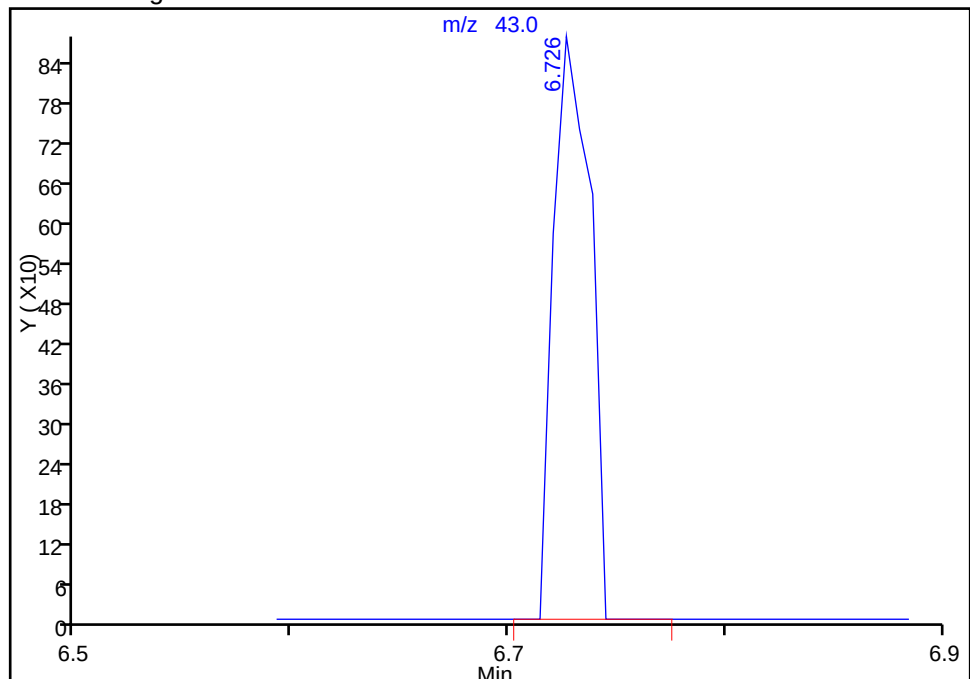
RT: 6.73

Area: 1030

Amount: 0.830496

Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:22:54

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9076.D

Injection Date: 09-Nov-2016 21:28:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: JG

ALS Bottle#:

16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

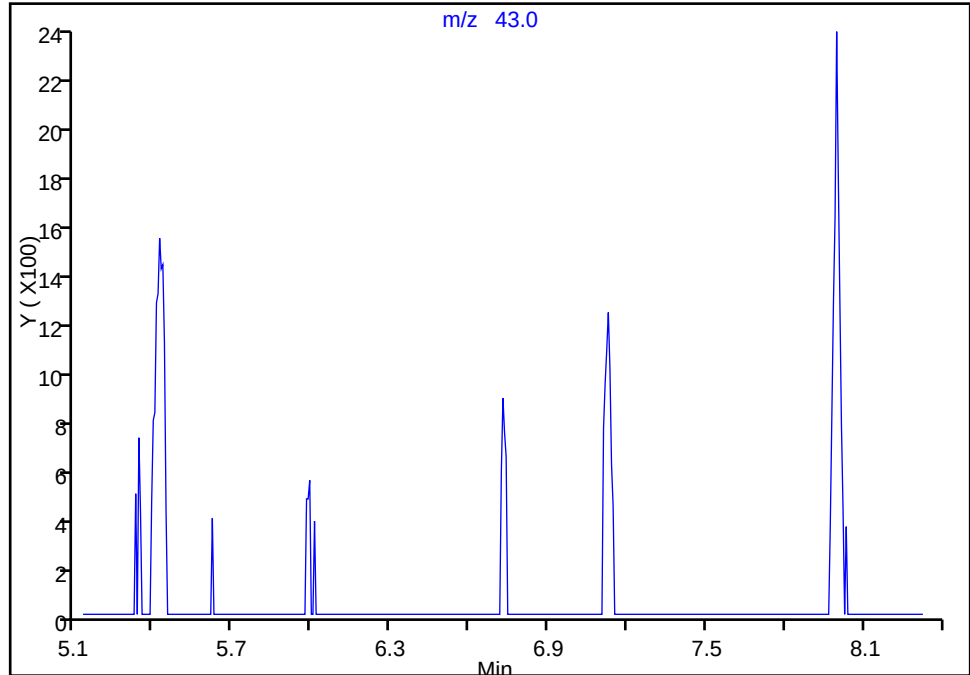
70 2-Nitropropane, CAS: 79-46-9

Signal: 1

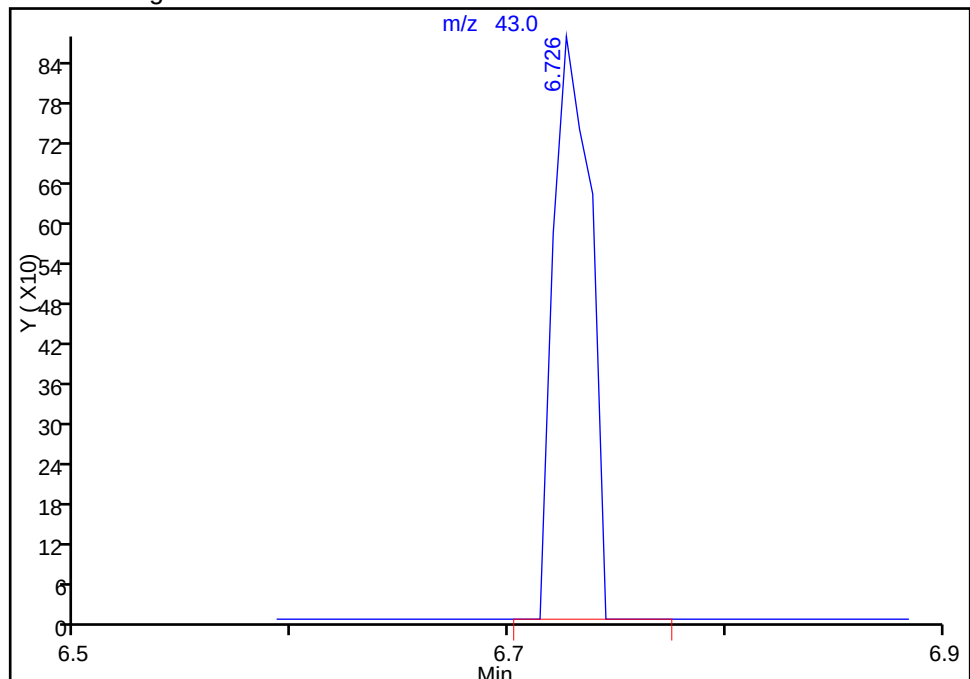
Not Detected

Expected RT: 6.73

Processing Integration Results



Manual Integration Results



RT: 6.73

Area: 1030

Amount: 0.830496

Amount Units: ug/L

Reviewer: gentilej, 10-Nov-2016 09:22:54

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9076.D

Injection Date: 09-Nov-2016 21:28:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: JG

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

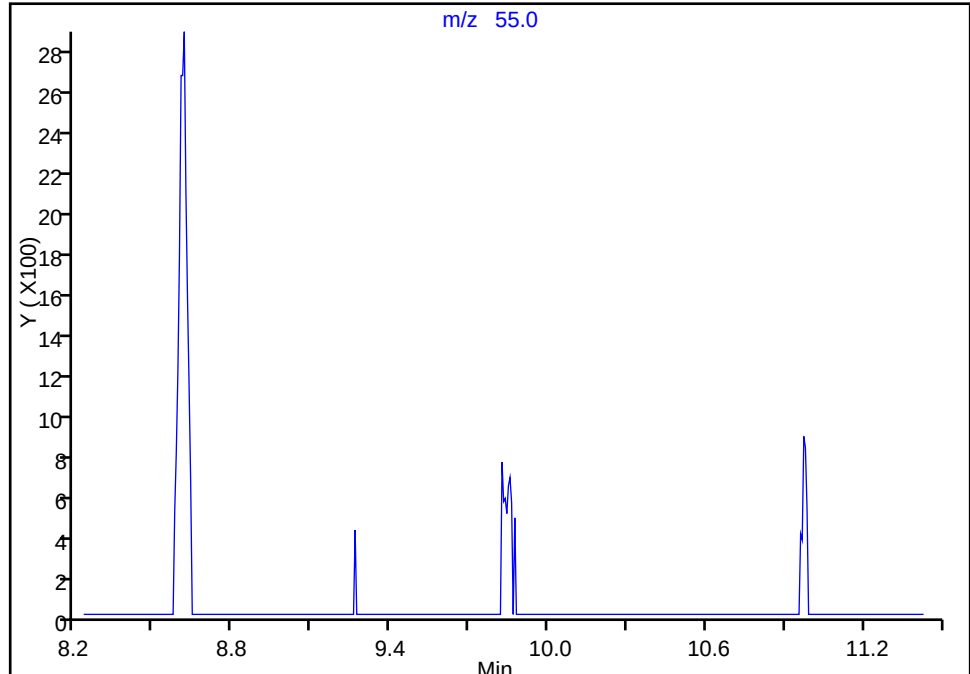
96 Cyclohexanone, CAS: 108-94-1

Signal: 1

Not Detected

Expected RT: 9.83

Processing Integration Results



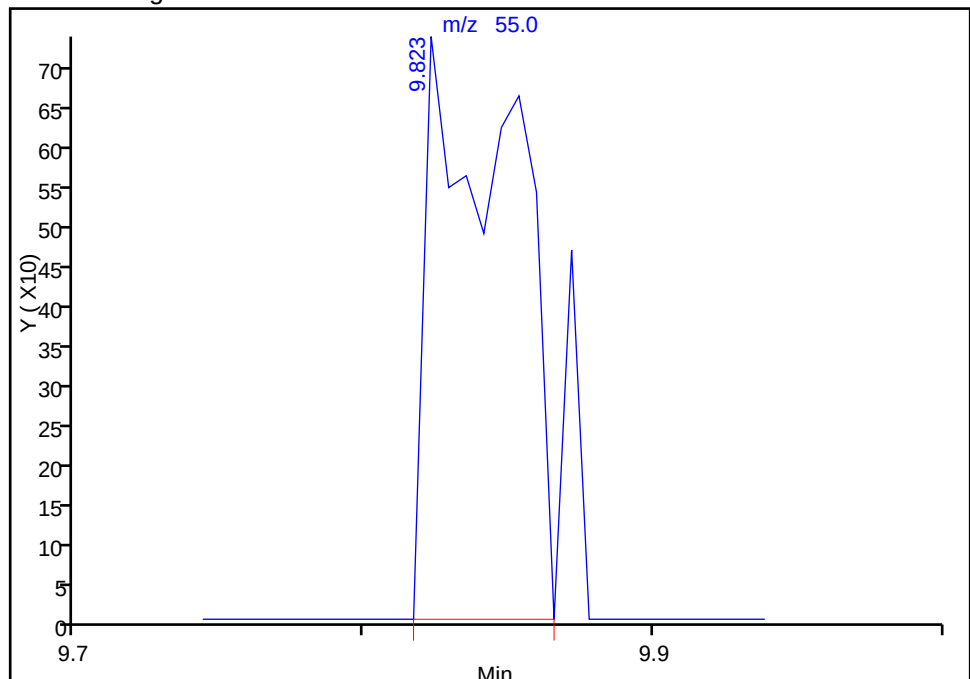
RT: 9.82

Area: 1517

Amount: 6.672824

Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:22:54

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9076.D

Injection Date: 09-Nov-2016 21:28:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: JG

ALS Bottle#: 16 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

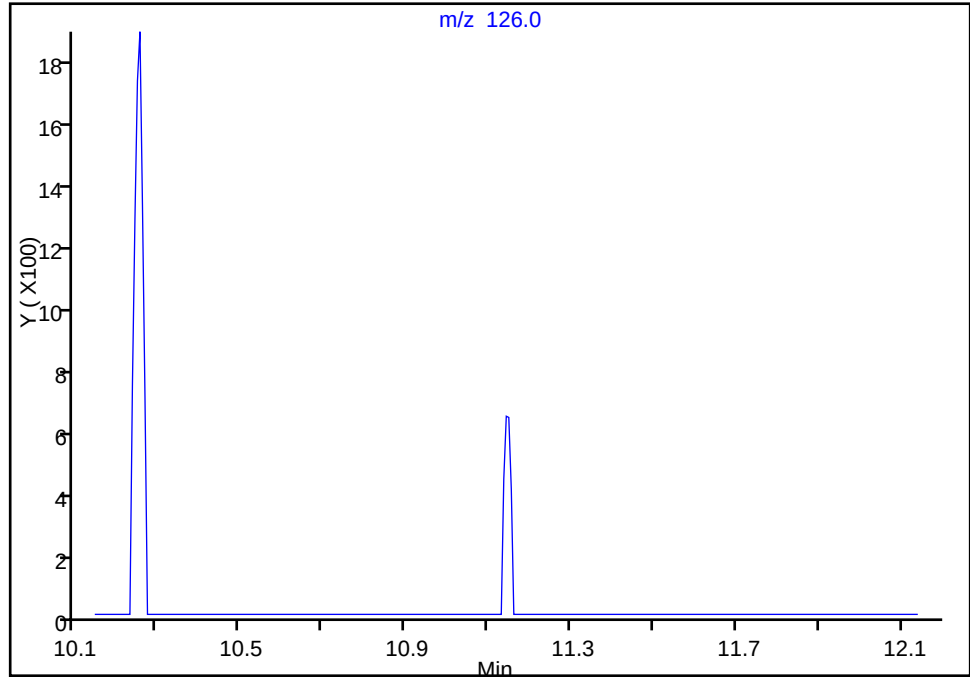
150 Benzyl chloride, CAS: 100-44-7

Signal: 1

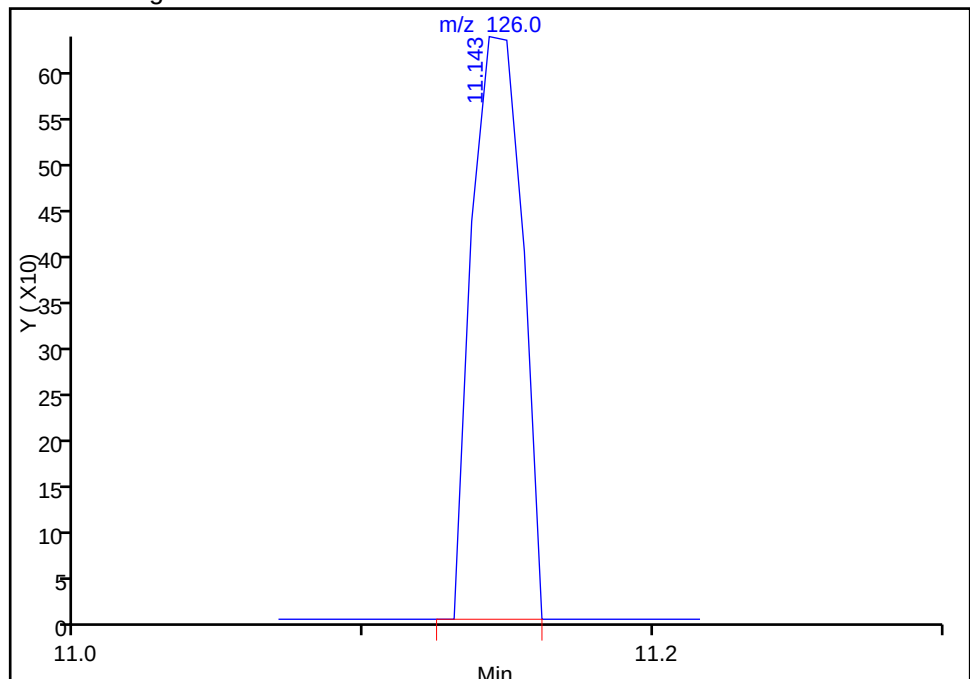
Not Detected

Expected RT: 11.14

Processing Integration Results



Manual Integration Results



RT: 11.14

Area: 769

Amount: 0.354882

Amount Units: ug/L

Reviewer: gentilej, 10-Nov-2016 09:22:54

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9077.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Nov-2016 21:51:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 9
 Misc. Info.: 480-0058150-018
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:23:09 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 09:26:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.613	5.607	0.006	99	98763	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	204809	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	95	214114	25.0	25.0	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	8	4525	1.00	0.9469	
148 Ethanol	45	2.565	2.565	0.000	89	2533	40.0	34.9	
19 Propene oxide	58	2.669	2.663	0.006	73	6415	NC	NC	
24 Isopropyl alcohol	45	3.107	3.107	0.000	48	4092	10.0	11.3	
29 Acetonitrile	40	3.235	3.229	0.007	90	4357	10.0	11.9	
36 Isopropyl ether	45	4.007	4.007	0.000	73	13831	1.00	1.01	
40 2-Chloro-1,3-butadiene	53	4.044	4.050	-0.006	32	6781	1.00	1.01	
38 1,1-Dimethoxyethane	75	4.086	4.080	0.006	77	4370	5.00	4.94	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	83	14868	1.00	1.03	
42 Ethyl acetate	43	4.628	4.616	0.012	65	10285	2.00	2.20	
46 Propionitrile	54	4.689	4.682	0.006	70	7632	10.0	9.78	
47 Methacrylonitrile	41	4.798	4.792	0.006	91	32346	10.0	10.6	
152 Isooctane	57	5.339	5.340	-0.001	25	13764	1.00	1.04	
147 t-Amyl alcohol	59	5.412	5.400	0.012	48	5173	10.0	9.66	
56 Tert-amyl methyl ether	73	5.419	5.419	0.000	87	16471	1.00	1.02	
1 1,4-Difluorobenzene	114	5.723	5.717	0.006	36	14147	1.00	1.04	
60 n-Butanol	56	5.966	5.960	0.006	43	4253	25.0	25.4	
142 Ethyl acrylate	55	6.076	6.070	0.006	0	6452	1.00	1.02	M
63 Methyl methacrylate	41	6.295	6.289	0.006	54	9010	2.00	2.05	
70 2-Nitropropane	43	6.726	6.727	-0.001	77	2326	2.00	1.86	
71 Epichlorohydrin	57	6.860	6.848	0.012	0	4862	10.0	9.00	M
76 2-Methylthiophene	97	7.329	7.329	0.000	57	15028	1.00	0.9339	
78 3-Methylthiophene	97	7.493	7.493	0.000	54	15799	1.00	0.9345	
155 n-Butyl acetate	43	7.998	7.992	0.006	76	7165	1.00	0.99	
146 1-Chlorohexane	55	8.600	8.594	0.006	28	8104	1.00	0.9834	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	26	7238	1.00	1.02	
86 4-Chlorobenzotrifluoride	180	8.673	8.667	0.006	10	6122	1.00	0.9147	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	31	7160	1.00	0.9669	
96 Cyclohexanone	55	9.835	9.829	0.006	0	2443	10.0	10.7	M
104 3-Chlorotoluene	126	10.249	10.249	0.000	74	5441	1.00	0.9792	
108 Pentachloroethane	167	10.632	10.632	0.000	38	2400	1.00	0.99	
114 Dicyclopentadiene	66	10.985	10.985	0.000	40	23753	1.00	1.11	
112 1,2,3-Trimethylbenzene	105	11.034	11.028	0.006	4	20278	1.00	1.01	
150 Benzyl chloride	126	11.149	11.143	0.006	0	1705	1.00	0.8211	M
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	52	8797	1.00	0.99	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	42	10659	1.00	0.8253	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00052	Amount Added: 1.00	Units: uL
2MTP_WRK_00056	Amount Added: 1.00	Units: uL
3MTP_WRK_00058	Amount Added: 1.00	Units: uL
S_8260_IS_00191	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9077.D

Injection Date: 09-Nov-2016 21:51:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 9

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 17

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9077.D

Injection Date: 09-Nov-2016 21:51:30

Instrument ID: HP5973S

Lims ID: IC 9

Client ID:

Operator ID: JG

ALS Bottle#:

17

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

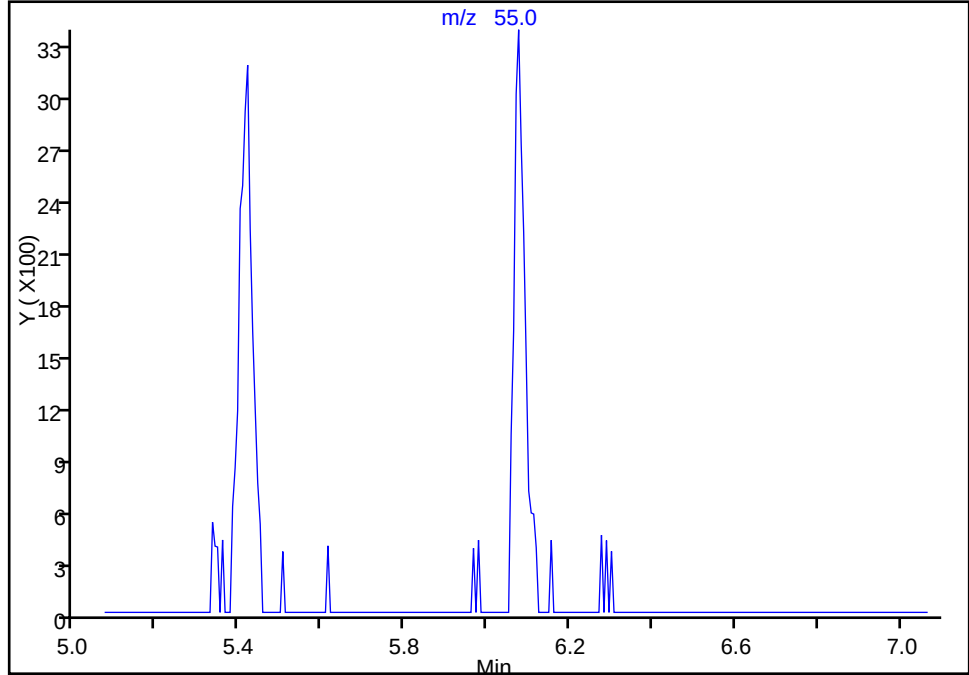
142 Ethyl acrylate, CAS: 140-88-5

Signal: 1

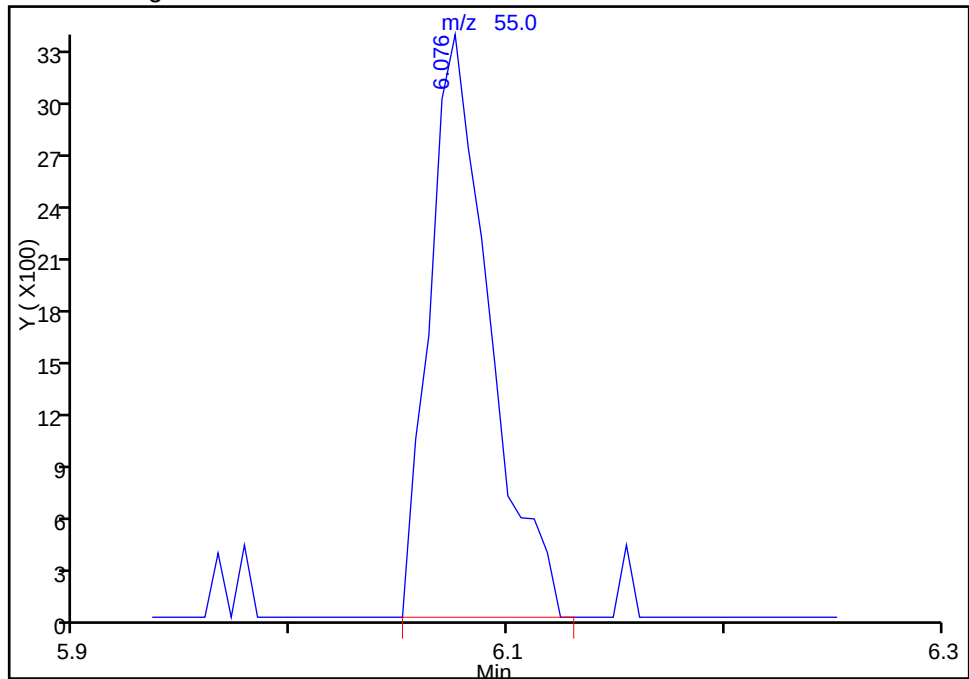
Not Detected

Expected RT: 6.07

Processing Integration Results



Manual Integration Results



RT: 6.08

Area: 6452

Amount: 1.015397

Amount Units: ug/L

Reviewer: gentilej, 10-Nov-2016 09:26:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9077.D

Injection Date: 09-Nov-2016 21:51:30

Instrument ID: HP5973S

Lims ID: IC 9

Client ID:

Operator ID: JG

ALS Bottle#: 17 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

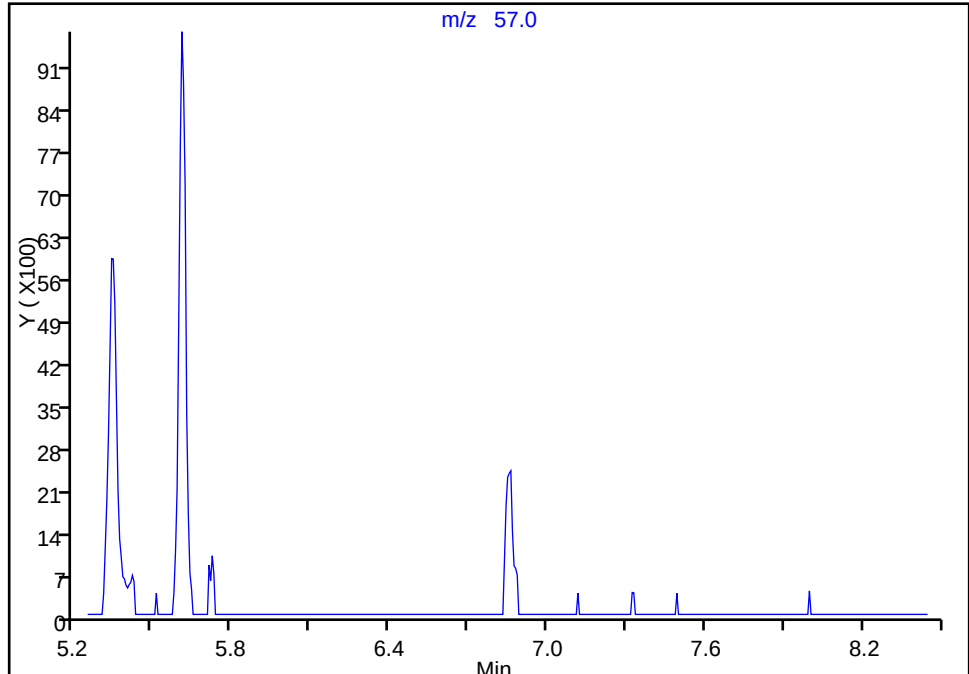
71 Epichlorohydrin, CAS: 106-89-8

Signal: 1

Not Detected

Expected RT: 6.85

Processing Integration Results



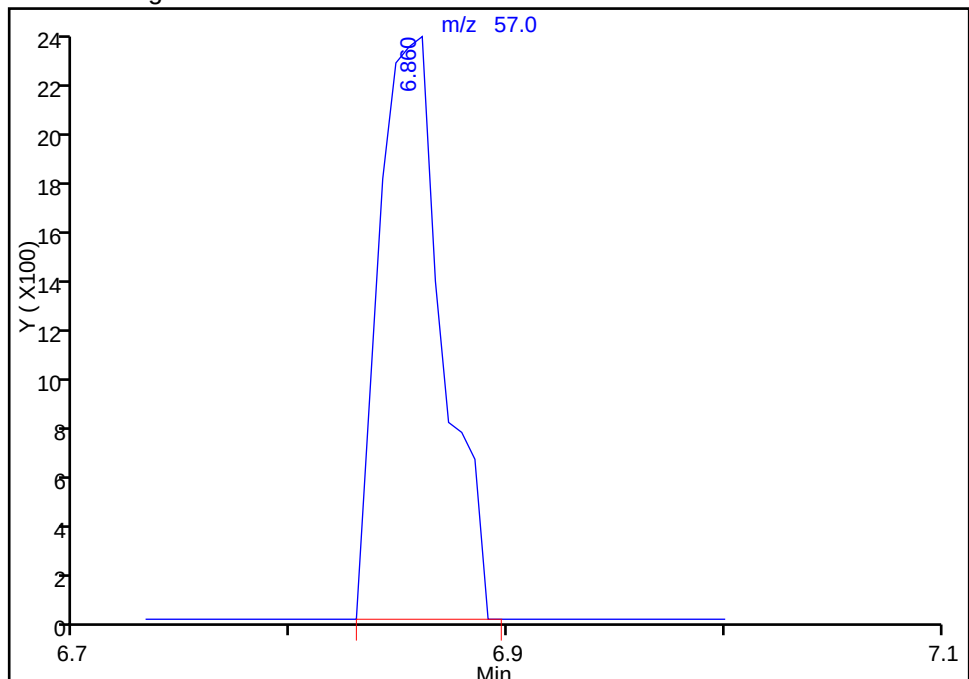
RT: 6.86

Area: 4862

Amount: 8.998376

Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:26:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9077.D

Injection Date: 09-Nov-2016 21:51:30

Instrument ID: HP5973S

Lims ID: IC 9

Client ID:

Operator ID: JG

ALS Bottle#:

17

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

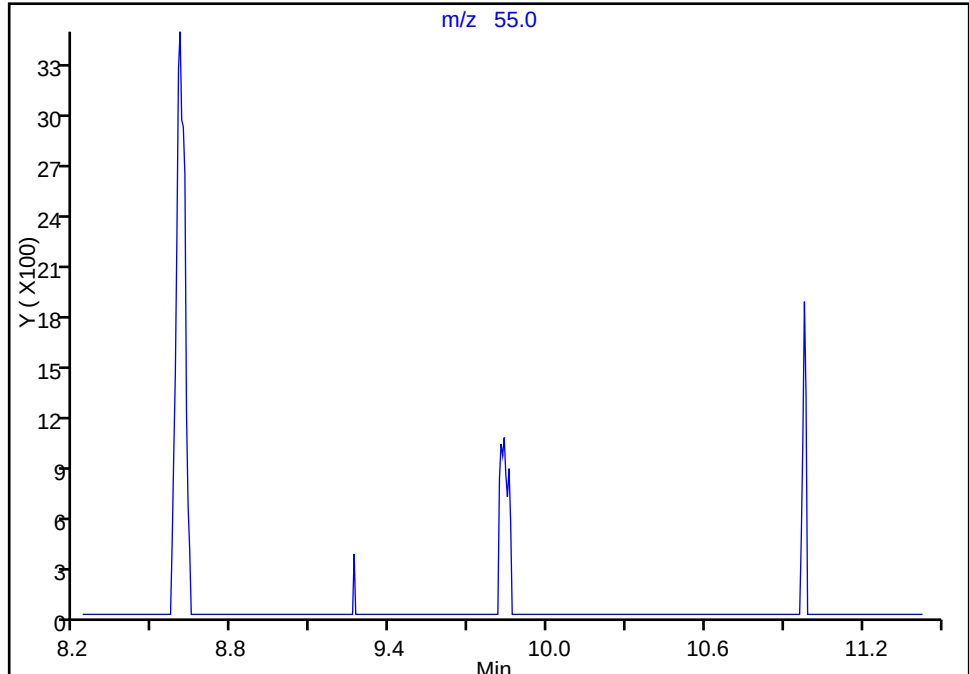
96 Cyclohexanone, CAS: 108-94-1

Signal: 1

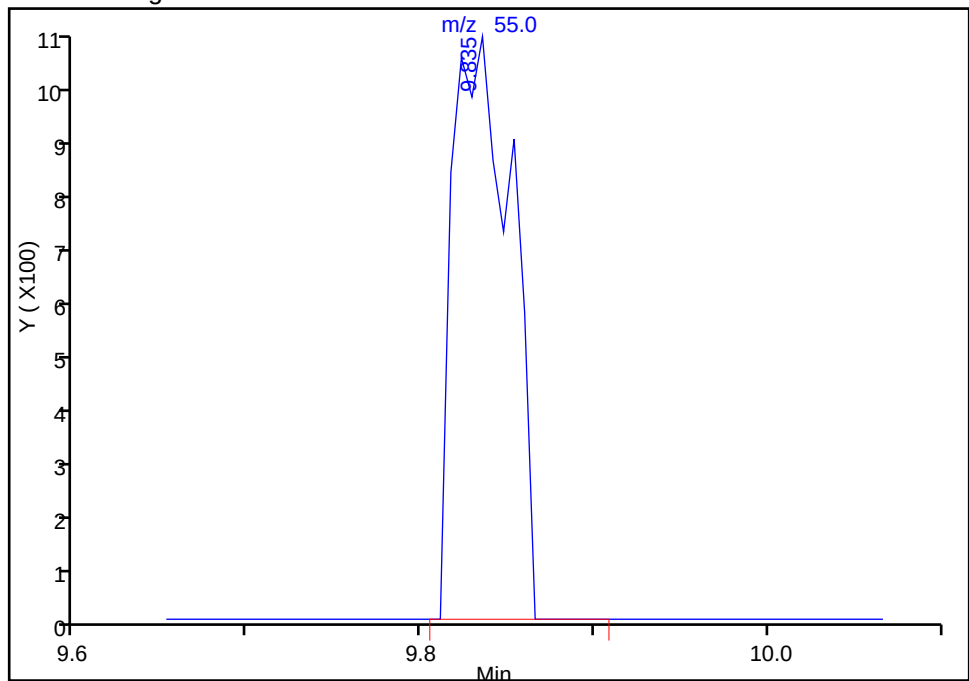
Not Detected

Expected RT: 9.83

Processing Integration Results



Manual Integration Results



RT: 9.84

Area: 2443

Amount: 10.685089

Amount Units: ug/L

Reviewer: gentilej, 10-Nov-2016 09:26:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9077.D

Injection Date: 09-Nov-2016 21:51:30

Instrument ID: HP5973S

Lims ID: IC 9

Client ID:

Operator ID: JG

ALS Bottle#: 17 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

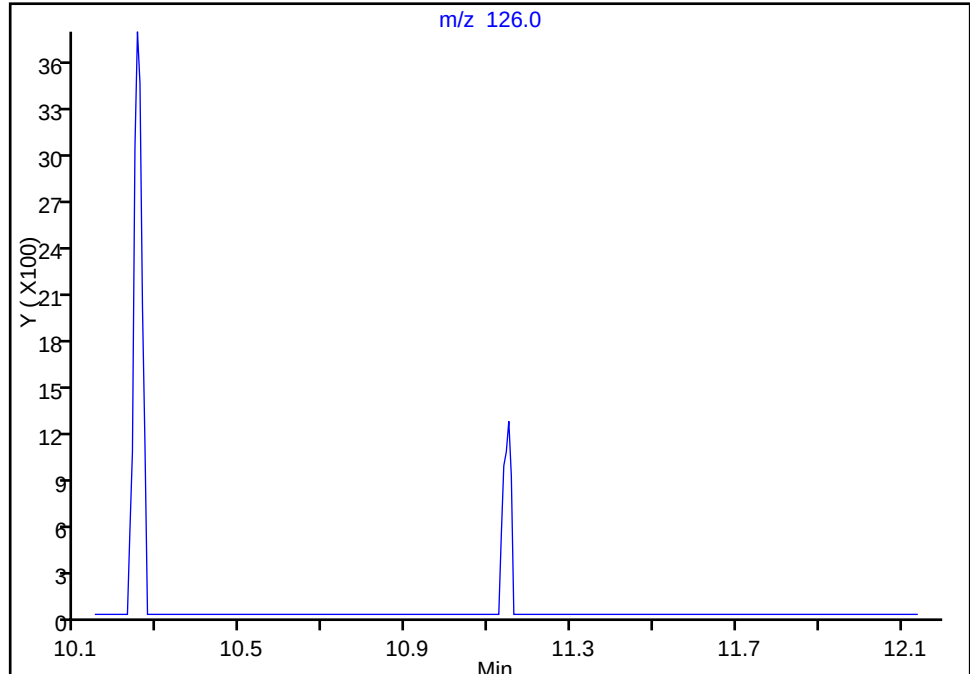
150 Benzyl chloride, CAS: 100-44-7

Signal: 1

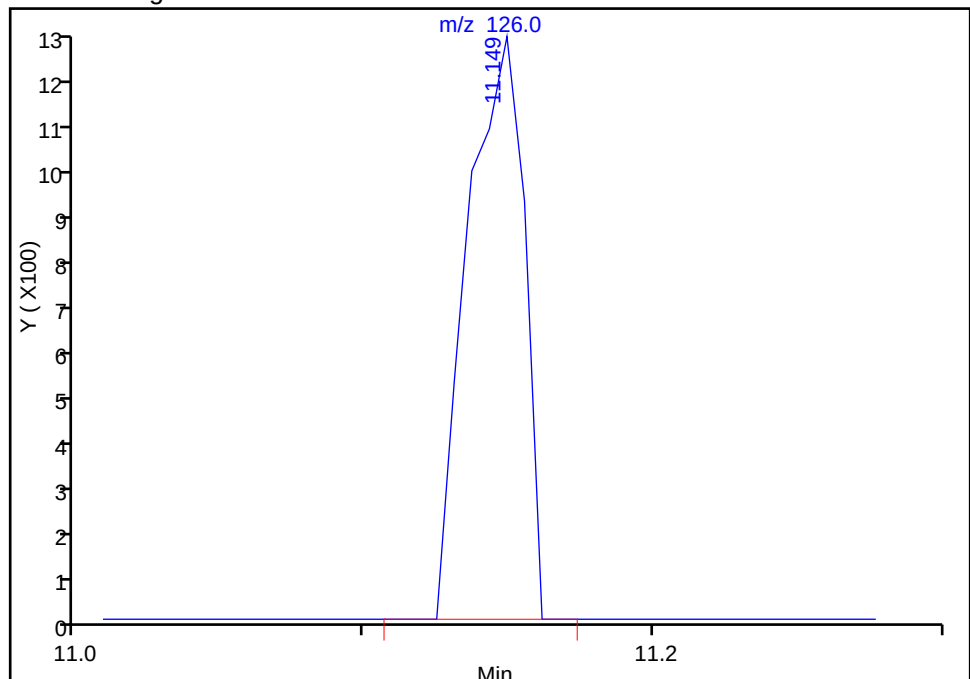
Not Detected

Expected RT: 11.14

Processing Integration Results



Manual Integration Results



RT: 11.15

Area: 1705

Amount: 0.821093

Amount Units: ug/L

Reviewer: gentilej, 10-Nov-2016 09:26:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9078.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Nov-2016 22:14:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 10
 Misc. Info.: 480-0058150-019
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:23:22 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 09:27:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	101130	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	213391	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	95	217518	25.0	25.0	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	54	27641	5.00	5.65	
148 Ethanol	45	2.571	2.565	0.006	90	9544	200.0	202.5	
19 Propene oxide	58	2.669	2.663	0.006	94	31062	NC	NC	
24 Isopropyl alcohol	45	3.107	3.107	0.000	80	17653	50.0	47.7	
29 Acetonitrile	40	3.235	3.229	0.007	99	17118	50.0	45.8	
36 Isopropyl ether	45	4.007	4.007	0.000	92	72315	5.00	5.13	
40 2-Chloro-1,3-butadiene	53	4.050	4.050	0.000	76	36820	5.00	5.34	
38 1,1-Dimethoxyethane	75	4.086	4.080	0.006	87	21795	25.0	24.1	
41 Tert-butyl ethyl ether	59	4.354	4.348	0.006	96	75077	5.00	5.08	
42 Ethyl acetate	43	4.622	4.616	0.006	96	49398	10.0	10.3	
46 Propionitrile	54	4.682	4.682	0.000	95	41371	50.0	51.8	
47 Methacrylonitrile	41	4.792	4.792	0.000	92	157924	50.0	50.7	
152 Isooctane	57	5.339	5.340	-0.001	60	77940	5.00	5.76	M
147 t-Amyl alcohol	59	5.406	5.400	0.006	56	26654	50.0	48.6	
56 Tert-amyl methyl ether	73	5.419	5.419	0.000	93	82442	5.00	5.00	
1 1,4-Difluorobenzene	114	5.723	5.717	0.006	89	73844	5.00	5.28	
60 n-Butanol	56	5.966	5.960	0.006	83	17884	125.0	104.3	
142 Ethyl acrylate	55	6.076	6.070	0.006	86	32950	5.00	5.06	
63 Methyl methacrylate	41	6.288	6.289	-0.001	89	44986	10.0	10.0	
70 2-Nitropropane	43	6.727	6.727	-0.001	85	12052	10.0	9.51	
71 Epichlorohydrin	57	6.854	6.848	0.006	88	27366	50.0	49.5	
76 2-Methylthiophene	97	7.329	7.329	0.000	92	81386	5.00	4.98	
78 3-Methylthiophene	97	7.493	7.493	0.000	95	88763	5.00	5.17	
155 n-Butyl acetate	43	7.992	7.992	0.000	89	36295	5.00	4.90	
146 1-Chlorohexane	55	8.594	8.594	0.000	59	26669	5.00	5.25	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	54	41648	5.00	5.79	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	80	35922	5.00	5.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.592	9.586	0.006	85	38831	5.00	5.16	
96 Cyclohexanone	55	9.829	9.829	0.000	82	10826	50.0	46.6	
104 3-Chlorotoluene	126	10.249	10.249	0.000	95	28703	5.00	5.08	
108 Pentachloroethane	167	10.632	10.632	0.000	71	12324	5.00	5.01	
114 Dicyclopentadiene	66	10.985	10.985	0.000	61	108549	5.00	4.97	
112 1,2,3-Trimethylbenzene	105	11.034	11.028	0.006	45	102860	5.00	5.03	
150 Benzyl chloride	126	11.143	11.143	0.000	89	9128	5.00	4.22	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	94	44529	5.00	4.95	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	84	58956	5.00	4.49	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00052	Amount Added: 5.00	Units: uL
2MTP_WRK_00056	Amount Added: 5.00	Units: uL
3MTP_WRK_00058	Amount Added: 5.00	Units: uL
S_8260_IS_00191	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9078.D

Injection Date: 09-Nov-2016 22:14:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 10

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

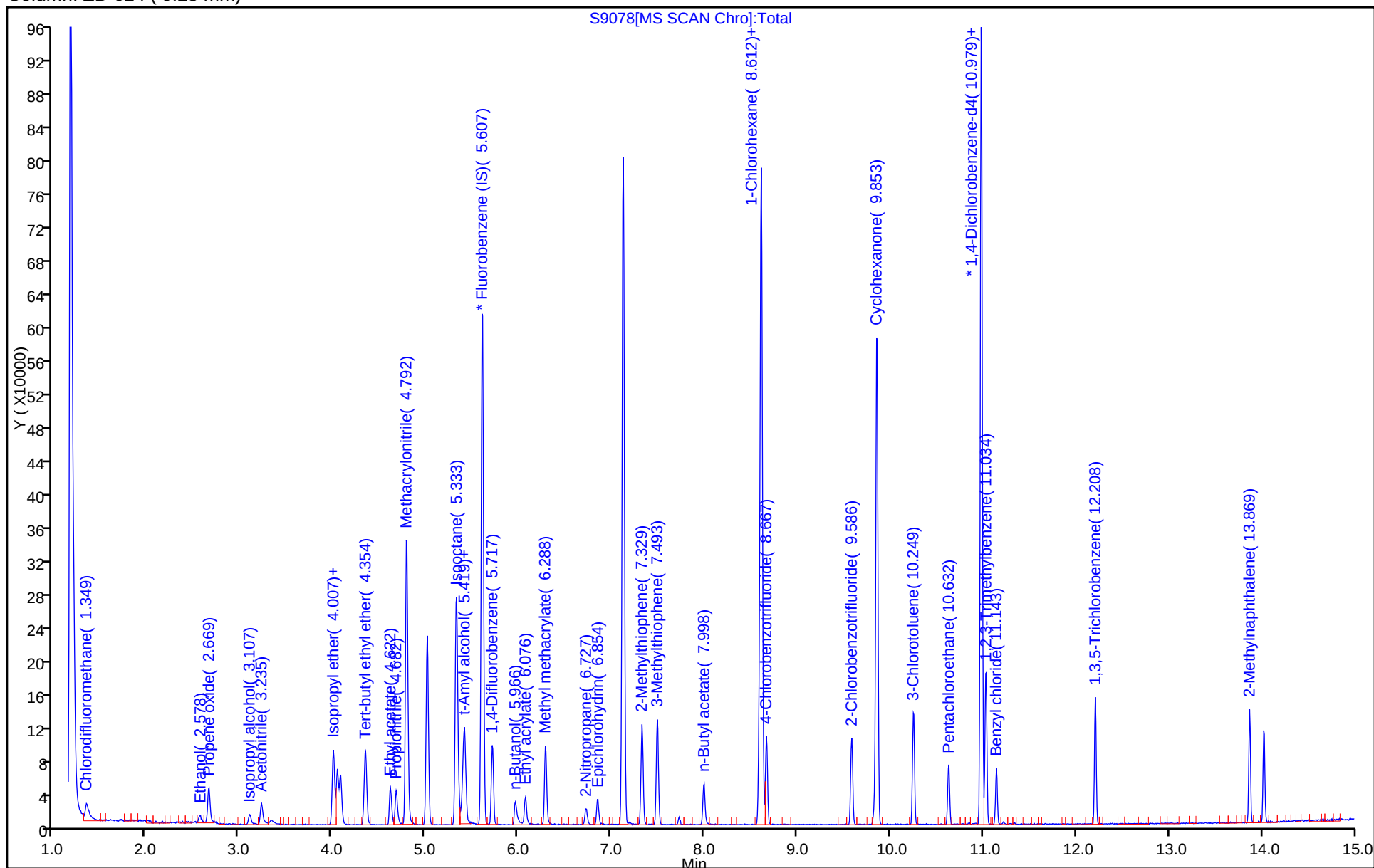
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9078.D

Injection Date: 09-Nov-2016 22:14:30

Instrument ID: HP5973S

Lims ID: IC 10

Client ID:

Operator ID: JG

ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

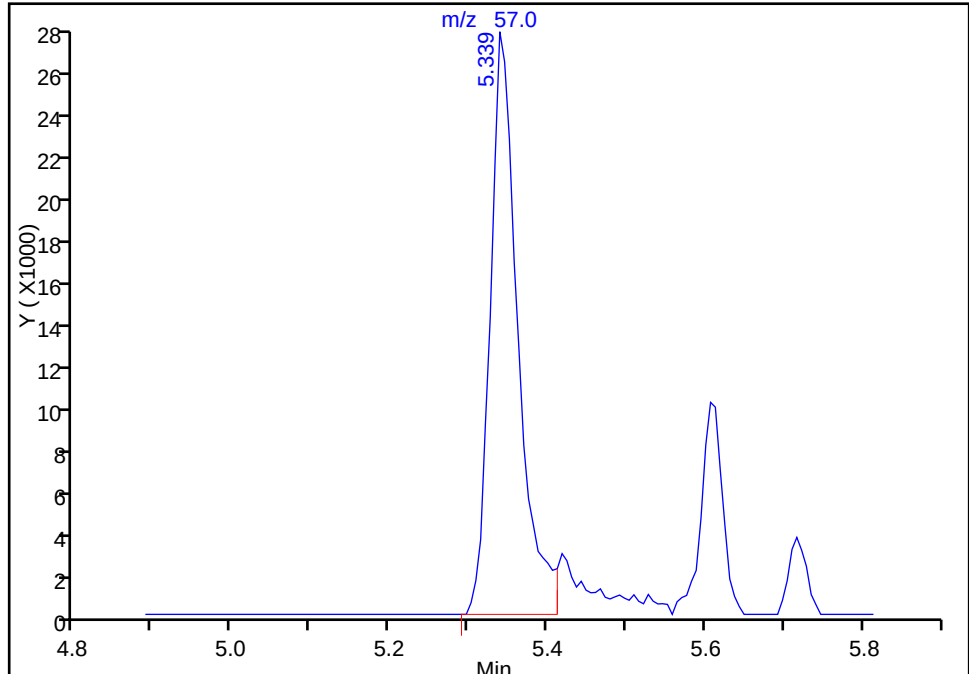
Detector: MS SCAN

152 Isooctane, CAS: 540-84-1

Signal: 1

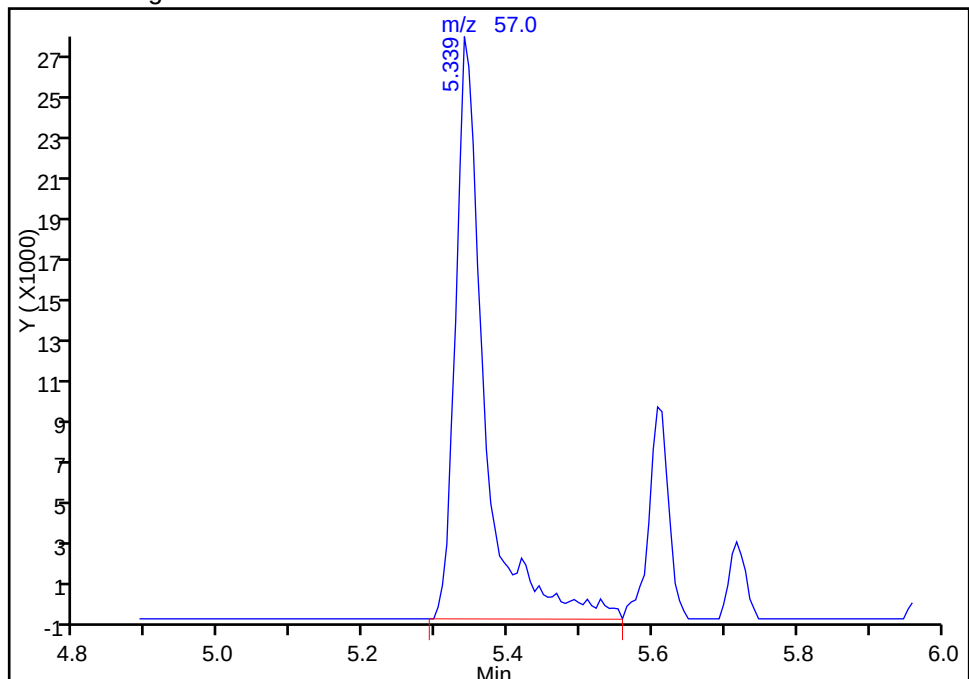
RT: 5.34
Area: 68785
Amount: 5.182963
Amount Units: ug/L

Processing Integration Results



RT: 5.34
Area: 77940
Amount: 5.759282
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:52:29

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9079.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Nov-2016 22:38:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 11
 Misc. Info.: 480-0058150-020
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:23:16 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 11:22:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	101631	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	208400	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	95	214308	25.0	25.0	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	69	47329	10.0	9.62	
148 Ethanol	45	2.565	2.565	0.000	89	17321	400.0	388.0	
19 Propene oxide	58	2.663	2.663	0.000	96	61492	NC	NC	
24 Isopropyl alcohol	45	3.107	3.107	0.000	94	37856	100.0	101.8	
29 Acetonitrile	40	3.229	3.229	0.000	98	36172	100.0	96.3	
36 Isopropyl ether	45	4.007	4.007	0.000	92	140491	10.0	9.92	
40 2-Chloro-1,3-butadiene	53	4.050	4.050	0.000	85	63908	10.0	9.23	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	87	46547	50.0	51.1	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	147178	10.0	9.90	
42 Ethyl acetate	43	4.616	4.616	0.000	98	93905	20.0	19.5	
46 Propionitrile	54	4.682	4.682	0.000	97	83544	100.0	104.0	
47 Methacrylonitrile	41	4.792	4.792	0.000	92	317758	100.0	101.5	
152 Isooctane	57	5.340	5.340	0.000	83	137823	10.0	10.1	M
147 t-Amyl alcohol	59	5.400	5.400	0.000	47	58349	100.0	105.9	
56 Tert-amyl methyl ether	73	5.419	5.419	0.000	81	160203	10.0	9.67	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	93	132992	10.0	9.46	
60 n-Butanol	56	5.960	5.960	0.000	84	40501	250.0	235.0	
142 Ethyl acrylate	55	6.070	6.070	0.000	88	60745	10.0	9.29	
63 Methyl methacrylate	41	6.289	6.289	0.000	90	91228	20.0	20.2	
70 2-Nitropropane	43	6.727	6.727	0.000	95	25366	20.0	20.3	
71 Epichlorohydrin	57	6.848	6.848	0.000	95	57462	100.0	103.3	
76 2-Methylthiophene	97	7.329	7.329	0.000	96	155443	10.0	9.65	
78 3-Methylthiophene	97	7.493	7.493	0.000	98	161835	10.0	9.56	
155 n-Butyl acetate	43	7.992	7.992	0.000	96	72712	10.0	9.77	
146 1-Chlorohexane	55	8.594	8.594	0.000	77	42901	10.0	9.29	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	60	64902	10.0	9.16	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	79	63603	10.0	9.49	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	96	69610	10.0	9.39	
96 Cyclohexanone	55	9.829	9.829	0.000	86	23852	100.0	104.2	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	53169	10.0	9.56	
108 Pentachloroethane	167	10.632	10.632	0.000	76	25180	10.0	10.4	
114 Dicyclopentadiene	66	10.985	10.985	0.000	76	198179	10.0	9.22	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	57	200139	10.0	9.94	
150 Benzyl chloride	126	11.143	11.143	0.000	97	20925	10.0	9.90	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	85038	10.0	9.59	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	90	128513	10.0	9.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00052	Amount Added: 5.00	Units: uL
2MTP_WRK_00056	Amount Added: 5.00	Units: uL
3MTP_WRK_00058	Amount Added: 5.00	Units: uL
S_8260_IS_00191	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9079.D

Injection Date: 09-Nov-2016 22:38:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 11

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

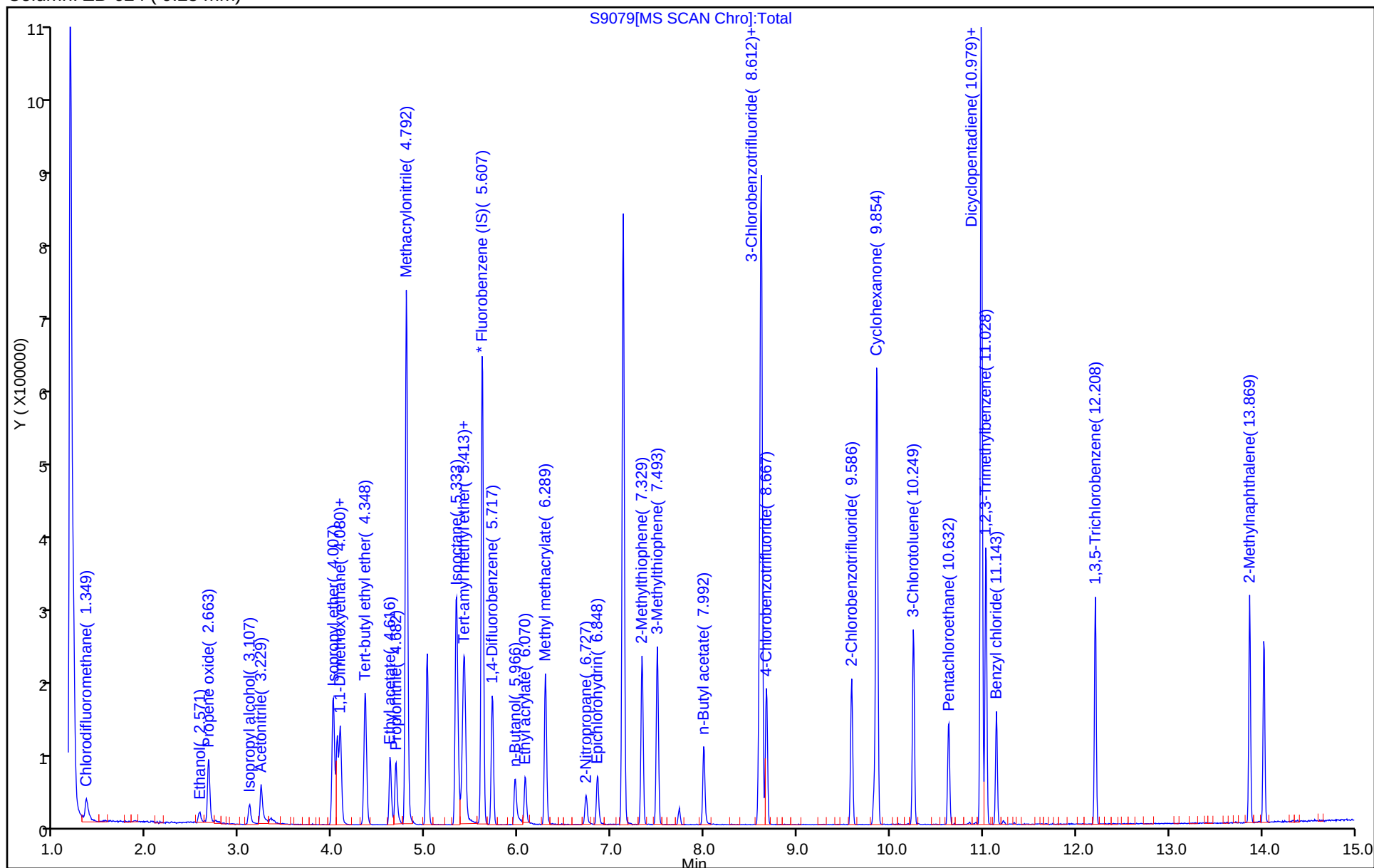
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9079.D

Injection Date: 09-Nov-2016 22:38:30

Instrument ID: HP5973S

Lims ID: IC 11

Client ID:

Operator ID: JG

ALS Bottle#:

19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

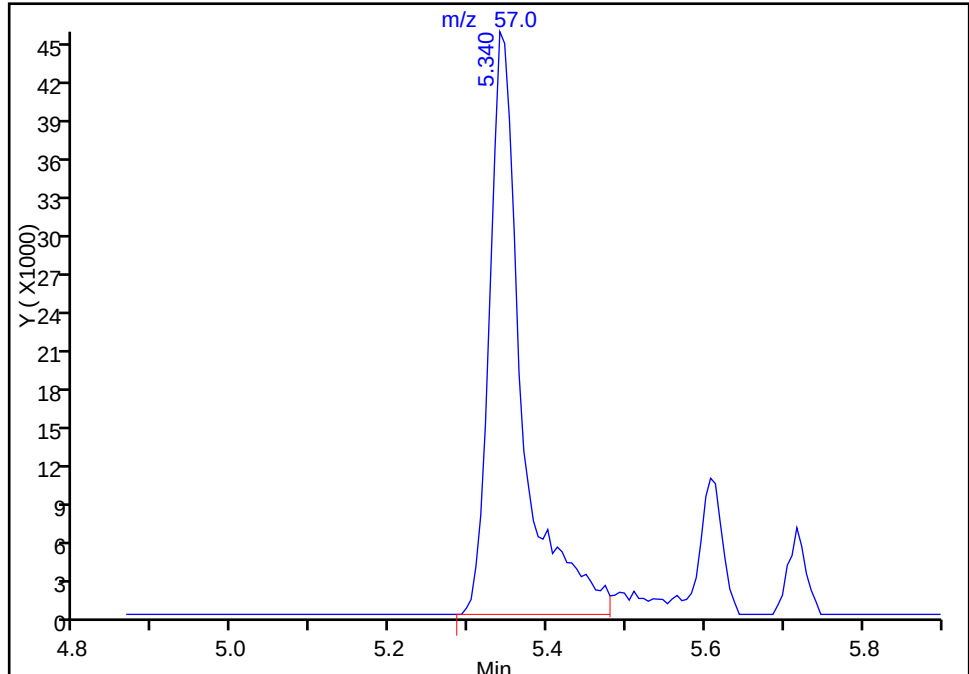
Detector: MS SCAN

152 Isooctane, CAS: 540-84-1

Signal: 1

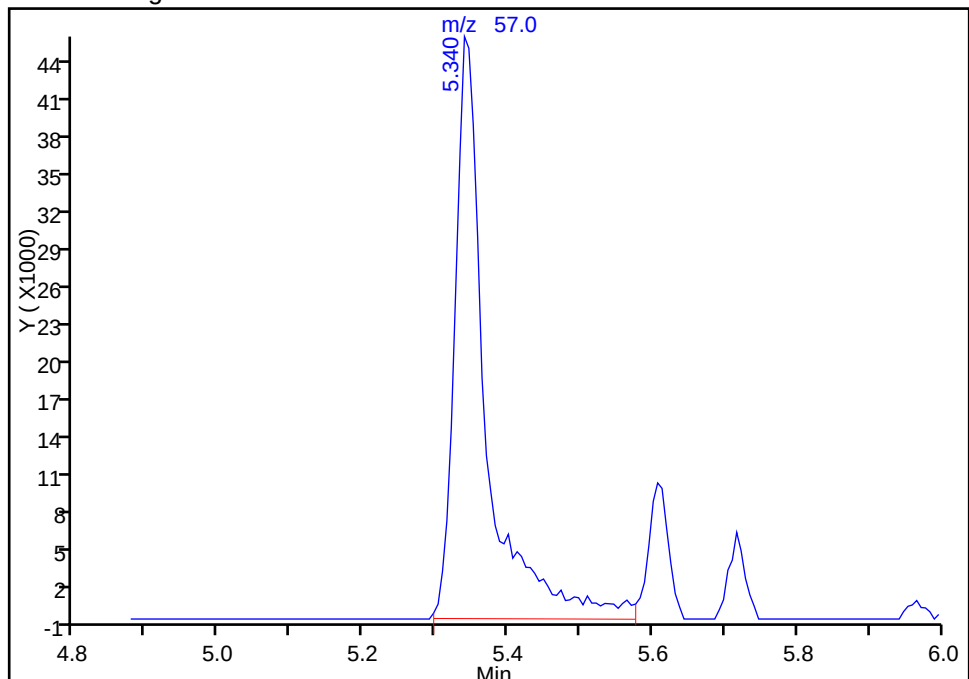
RT: 5.34
Area: 130526
Amount: 9.863771
Amount Units: ug/L

Processing Integration Results



RT: 5.34
Area: 137823
Amount: 10.134059
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:45:44

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9080.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Nov-2016 23:01:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 12
 Misc. Info.: 480-0058150-021
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:23:26 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 09:32:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.613	5.613	0.000	99	99039	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	205437	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	86	211520	25.0	25.0	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	78	135034	25.0	28.2	
148 Ethanol	45	2.565	2.565	0.000	96	49580	1000.0	1193.3	
19 Propene oxide	58	2.663	2.663	0.000	96	152872	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	97	93264	250.0	257.4	
29 Acetonitrile	40	3.229	3.229	0.000	99	86554	250.0	236.5	
36 Isopropyl ether	45	4.001	4.001	0.000	93	353462	25.0	25.6	
40 2-Chloro-1,3-butadiene	53	4.050	4.050	0.000	84	186645	25.0	27.7	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	89	121350	125.0	136.8	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	371637	25.0	25.7	
42 Ethyl acetate	43	4.616	4.616	0.000	99	244123	50.0	52.1	
46 Propionitrile	54	4.676	4.676	0.000	97	203327	250.0	259.8	
47 Methacrylonitrile	41	4.792	4.792	0.000	92	775725	250.0	254.2	
152 Isooctane	57	5.346	5.346	0.000	96	359000	25.0	27.1	
147 t-Amyl alcohol	59	5.400	5.400	0.000	45	141288	250.0	263.2	
56 Tert-amyl methyl ether	73	5.413	5.413	0.000	91	414225	25.0	25.7	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	361295	25.0	26.4	
60 n-Butanol	56	5.960	5.960	0.000	86	113069	625.0	673.2	
142 Ethyl acrylate	55	6.070	6.070	0.000	97	165801	25.0	26.0	
63 Methyl methacrylate	41	6.289	6.289	0.000	89	217827	50.0	49.5	
70 2-Nitropropane	43	6.727	6.727	0.000	97	62776	50.0	50.9	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	140589	250.0	259.5	
76 2-Methylthiophene	97	7.329	7.329	0.000	97	405428	25.0	25.5	
78 3-Methylthiophene	97	7.493	7.493	0.000	99	426492	25.0	25.5	
155 n-Butyl acetate	43	7.992	7.992	0.000	97	187917	25.0	25.9	
146 1-Chlorohexane	55	8.588	8.588	0.000	97	114560	25.0	26.9	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	83	190636	25.0	27.3	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	90	177257	25.0	26.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	97	194577	25.0	26.6	
96 Cyclohexanone	55	9.829	9.829	0.000	91	55354	250.0	245.1	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	142863	25.0	26.0	
108 Pentachloroethane	167	10.632	10.632	0.000	84	62362	25.0	26.1	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	548246	25.0	25.8	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	62	520822	25.0	26.2	
150 Benzyl chloride	126	11.143	11.143	0.000	98	55400	25.0	26.6	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	95	229877	25.0	26.3	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	90	352185	25.0	27.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00052	Amount Added: 12.50	Units: uL
2MTP_WRK_00056	Amount Added: 12.50	Units: uL
3MTP_WRK_00058	Amount Added: 12.50	Units: uL
S_8260_IS_00191	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9080.D

Injection Date: 09-Nov-2016 23:01:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 12

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

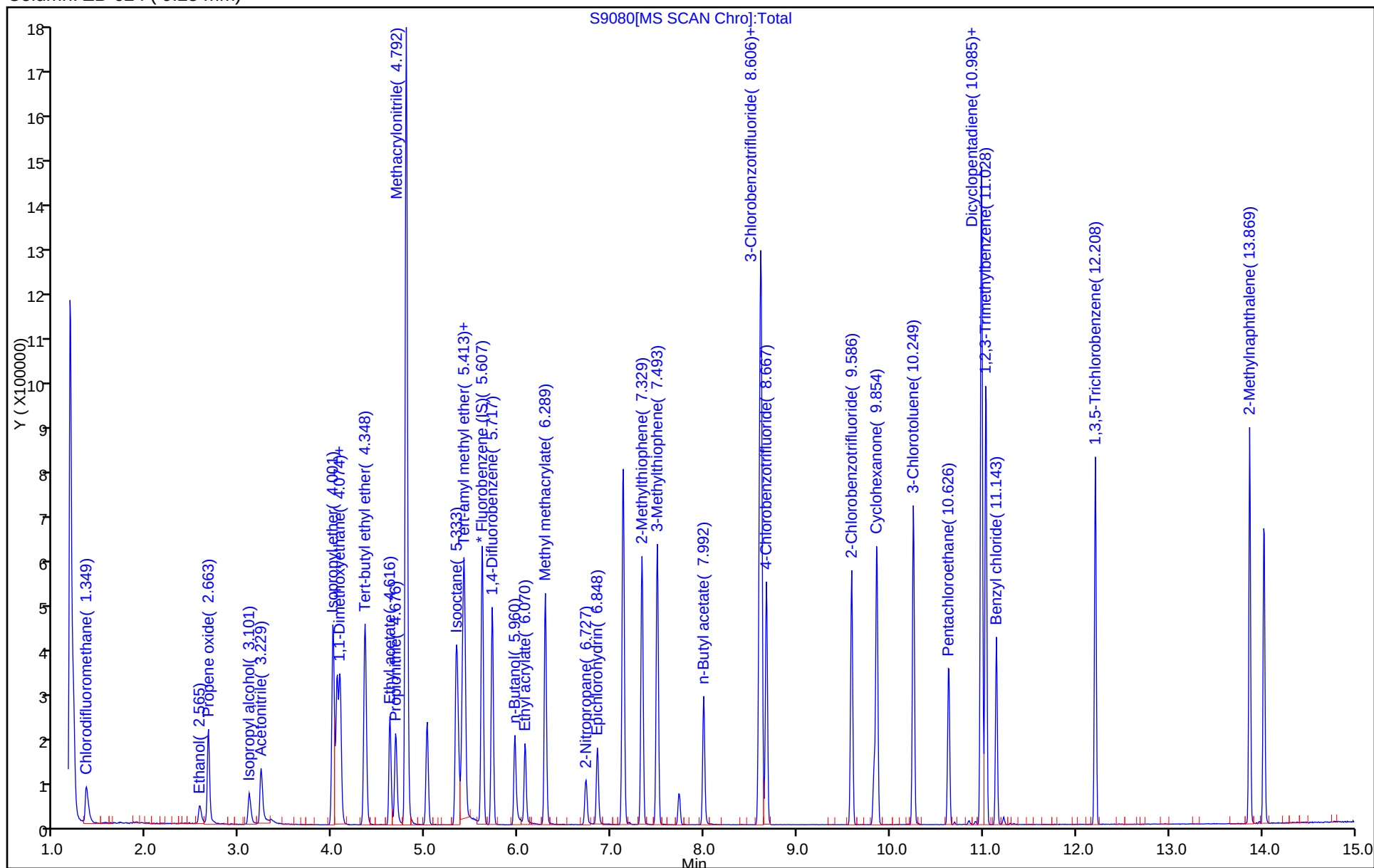
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9081.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Nov-2016 23:24:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 13
 Misc. Info.: 480-0058150-022
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:23:31 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 09:32:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.613	-0.006	99	102162	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	85	209462	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	67	211899	25.0	25.0	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	79	232826	50.0	47.1	
148 Ethanol	45	2.571	2.565	0.006	99	84143	2000.0	1981.0	
19 Propene oxide	58	2.663	2.663	0.000	96	297527	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	97	184653	500.0	494.0	M
29 Acetonitrile	40	3.228	3.229	0.000	99	161367	500.0	427.4	
36 Isopropyl ether	45	4.007	4.001	0.006	93	686403	50.0	48.2	
40 2-Chloro-1,3-butadiene	53	4.050	4.050	0.000	84	325091	50.0	46.7	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	87	244655	250.0	267.4	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	728299	50.0	48.8	
42 Ethyl acetate	43	4.615	4.616	-0.001	99	485950	100.0	100.5	
46 Propionitrile	54	4.676	4.676	0.000	98	402653	500.0	498.7	
47 Methacrylonitrile	41	4.792	4.792	0.000	91	1501649	500.0	477.1	
152 Isooctane	57	5.346	5.346	0.000	96	638865	50.0	46.7	M
147 t-Amyl alcohol	59	5.400	5.400	0.000	60	287333	500.0	518.8	
56 Tert-amyl methyl ether	73	5.412	5.413	0.000	91	818849	50.0	49.2	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	95	668367	50.0	47.3	
60 n-Butanol	56	5.960	5.960	0.000	85	235299	1250.0	1358.1	
142 Ethyl acrylate	55	6.069	6.070	-0.001	98	330156	50.0	50.2	
63 Methyl methacrylate	41	6.288	6.289	-0.001	88	435837	100.0	96.1	
70 2-Nitropropane	43	6.726	6.727	-0.001	98	136475	100.0	110.6	
71 Epichlorohydrin	57	6.848	6.848	0.000	97	287421	500.0	514.2	
76 2-Methylthiophene	97	7.329	7.329	0.000	97	811725	50.0	51.0	
78 3-Methylthiophene	97	7.493	7.493	0.000	99	824453	50.0	49.3	
155 n-Butyl acetate	43	7.992	7.992	0.000	98	373975	50.0	50.0	
146 1-Chlorohexane	55	8.588	8.588	0.000	97	198571	50.0	46.4	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	93	329681	50.0	47.0	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	94	325056	50.0	49.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	98	352801	50.0	48.1	
96 Cyclohexanone	55	9.823	9.829	-0.006	93	117755	500.0	520.4	
104 3-Chlorotoluene	126	10.249	10.249	0.000	97	273616	50.0	49.8	
108 Pentachloroethane	167	10.632	10.632	0.000	85	120777	50.0	50.4	
114 Dicyclopentadiene	66	10.985	10.985	0.000	96	1014790	50.0	47.7	
112 1,2,3-Trimethylbenzene	105	11.034	11.028	0.006	66	980861	50.0	49.2	
150 Benzyl chloride	126	11.143	11.143	0.000	98	120682	50.0	56.8	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	438942	50.0	50.1	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	90	742629	50.0	58.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00052

Amount Added: 25.00

Units: uL

2MTP_WRK_00056

Amount Added: 25.00

Units: uL

3MTP_WRK_00058

Amount Added: 25.00

Units: uL

S_8260_IS_00191

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9081.D

Injection Date: 09-Nov-2016 23:24:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 13

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

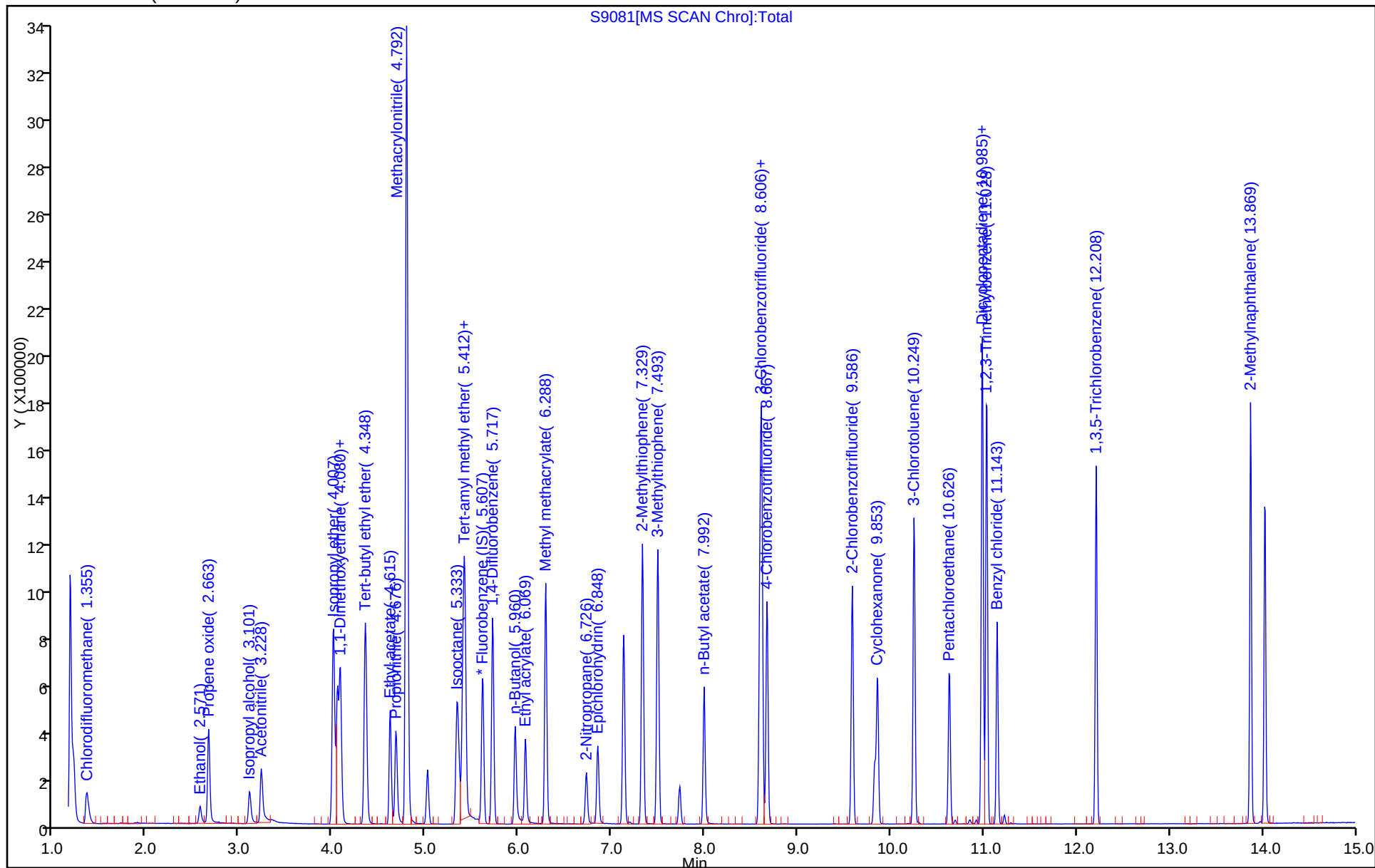
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9081.D

Injection Date: 09-Nov-2016 23:24:30

Instrument ID: HP5973S

Lims ID: IC 13

Client ID:

Operator ID: JG

ALS Bottle#:

21

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

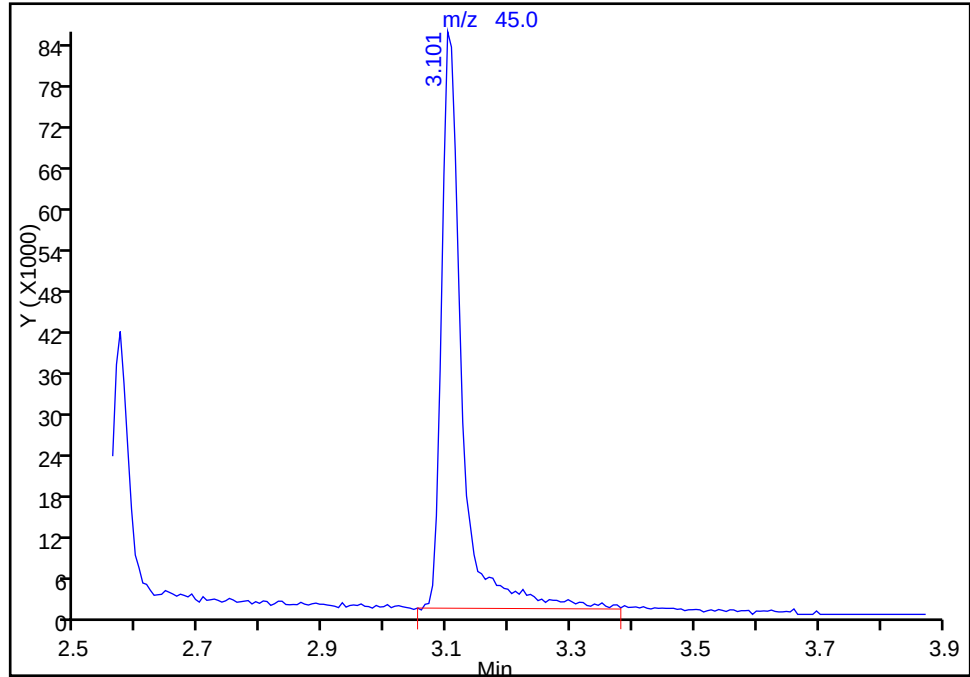
Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

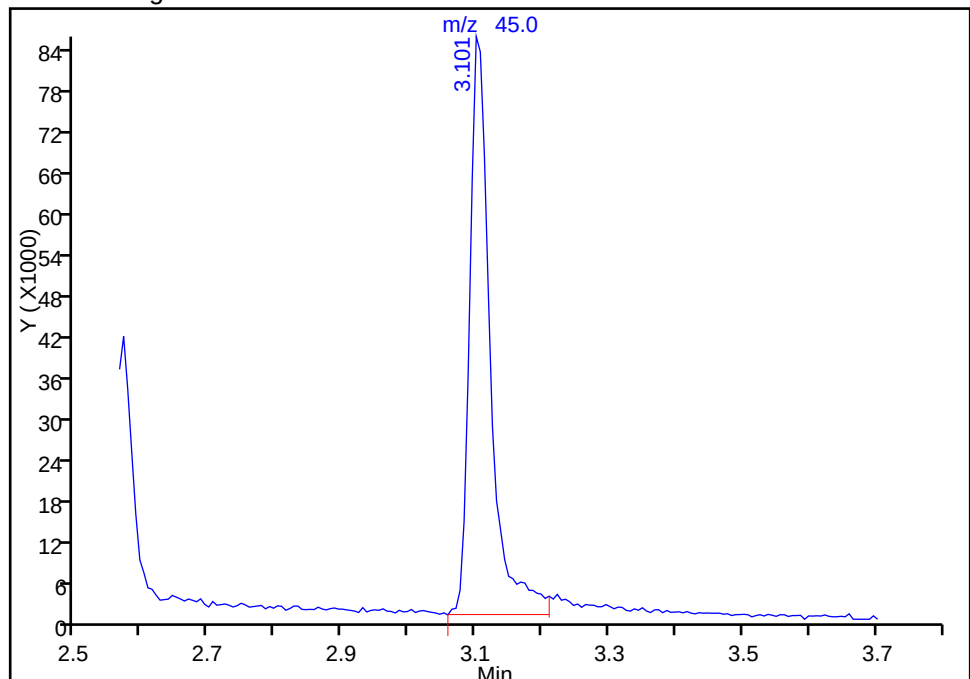
RT: 3.10
Area: 193596
Amount: 510.3239
Amount Units: ug/L

Processing Integration Results



RT: 3.10
Area: 184653
Amount: 494.0196
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:42:39

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9081.D

Injection Date: 09-Nov-2016 23:24:30

Instrument ID: HP5973S

Lims ID: IC 13

Client ID:

Operator ID: JG

ALS Bottle#: 21 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

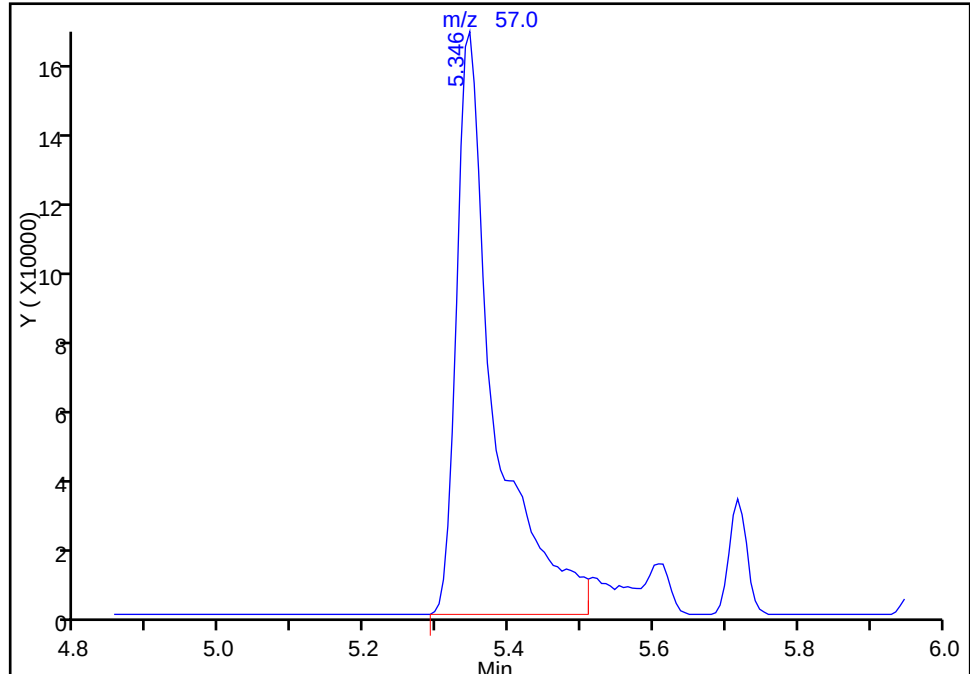
Detector: MS SCAN

152 Isooctane, CAS: 540-84-1

Signal: 1

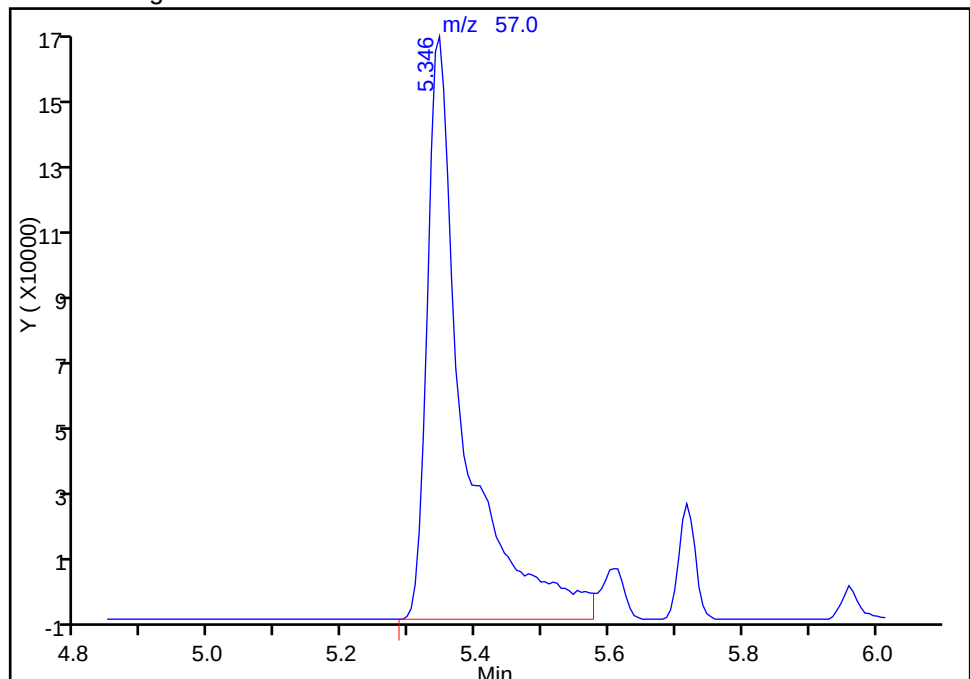
RT: 5.35
Area: 604735
Amount: 45.797662
Amount Units: ug/L

Processing Integration Results



RT: 5.35
Area: 638865
Amount: 46.731274
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:44:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Lims ID: IC 14
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Nov-2016 23:47:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 14
 Misc. Info.: 480-0058150-023
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2016 11:23:35 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 10-Nov-2016 09:33:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.613	-0.006	98	101127	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	64	212571	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	55	216335	25.0	25.0	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	79	547595	100.0	111.9	
148 Ethanol	45	2.577	2.565	0.012	99	160388	4000.0	3840.2	M
19 Propene oxide	58	2.657	2.663	-0.006	96	585968	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	98	339703	1000.0	918.1	M
29 Acetonitrile	40	3.228	3.229	0.000	100	317183	1000.0	848.8	
36 Isopropyl ether	45	4.001	4.001	0.000	92	1365784	100.0	97.0	
40 2-Chloro-1,3-butadiene	53	4.044	4.050	-0.006	88	731896	100.0	106.2	
38 1,1-Dimethoxyethane	75	4.074	4.080	-0.006	89	485923	500.0	536.5	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	1438643	100.0	97.3	
42 Ethyl acetate	43	4.615	4.616	-0.001	99	949556	200.0	198.4	
46 Propionitrile	54	4.676	4.676	0.000	97	764471	1000.0	956.5	
47 Methacrylonitrile	41	4.792	4.792	0.000	90	2790529	1000.0	895.7	
152 Isooctane	57	5.345	5.346	-0.001	96	1266536	100.0	93.6	
147 t-Amyl alcohol	59	5.394	5.400	-0.006	72	537113	1000.0	979.8	
56 Tert-amyl methyl ether	73	5.412	5.413	0.000	92	1598956	100.0	97.0	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	1393867	100.0	99.6	
60 n-Butanol	56	5.960	5.960	0.000	86	448677	2500.0	2616.2	
142 Ethyl acrylate	55	6.069	6.070	-0.001	99	648884	100.0	99.7	
63 Methyl methacrylate	41	6.288	6.289	-0.001	88	856757	200.0	190.8	
70 2-Nitropropane	43	6.726	6.727	-0.001	99	288718	200.0	229.1	
71 Epichlorohydrin	57	6.848	6.848	0.000	99	559375	1000.0	1011.1	
76 2-Methylthiophene	97	7.329	7.329	0.000	97	1603146	100.0	98.6	
78 3-Methylthiophene	97	7.493	7.493	0.000	99	1777354	100.0	104.1	
155 n-Butyl acetate	43	7.992	7.992	0.000	98	715169	100.0	96.6	
146 1-Chlorohexane	55	8.588	8.588	0.000	98	439521	100.0	102.3	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	93	744140	100.0	104.0	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	95	719443	100.0	106.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	98	767350	100.0	102.6	
96 Cyclohexanone	55	9.823	9.829	-0.006	92	216199	1000.0	935.9	
104 3-Chlorotoluene	126	10.249	10.249	0.000	97	564870	100.0	100.6	
108 Pentachloroethane	167	10.632	10.632	0.000	86	238564	100.0	97.5	
114 Dicyclopentadiene	66	10.985	10.985	0.000	96	2148855	100.0	99.0	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	77	1979529	100.0	97.3	
150 Benzyl chloride	126	11.143	11.143	0.000	99	246619	100.0	114.4	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	98	897379	100.0	100.3	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	89	1530790	100.0	117.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00052

Amount Added: 50.00

Units: uL

2MTP_WRK_00056

Amount Added: 50.00

Units: uL

3MTP_WRK_00058

Amount Added: 50.00

Units: uL

S_8260_IS_00191

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D

Injection Date: 09-Nov-2016 23:47:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: IC 14

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

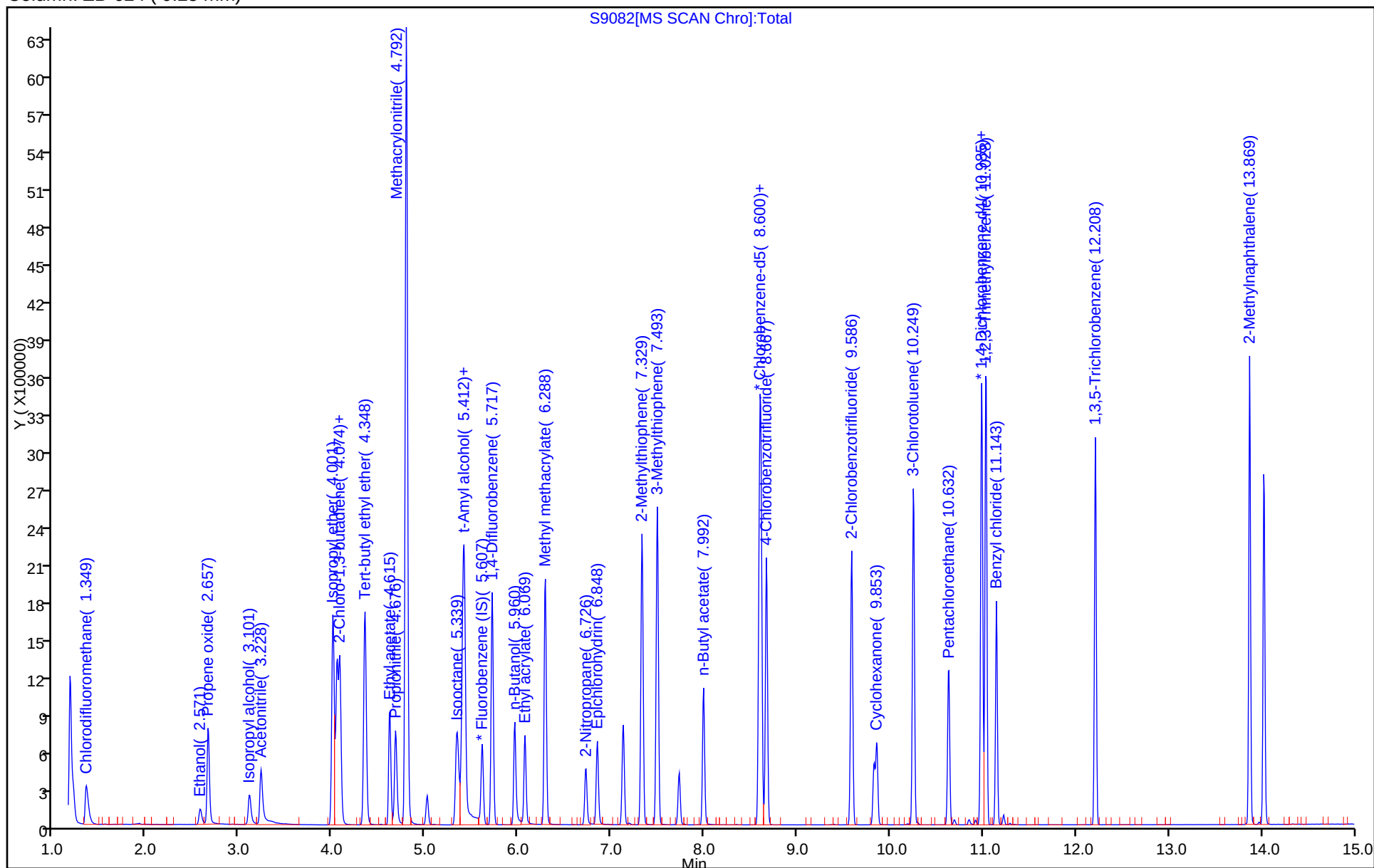
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D

Injection Date: 09-Nov-2016 23:47:30

Instrument ID: HP5973S

Lims ID: IC 14

Client ID:

Operator ID: JG

ALS Bottle#:

22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

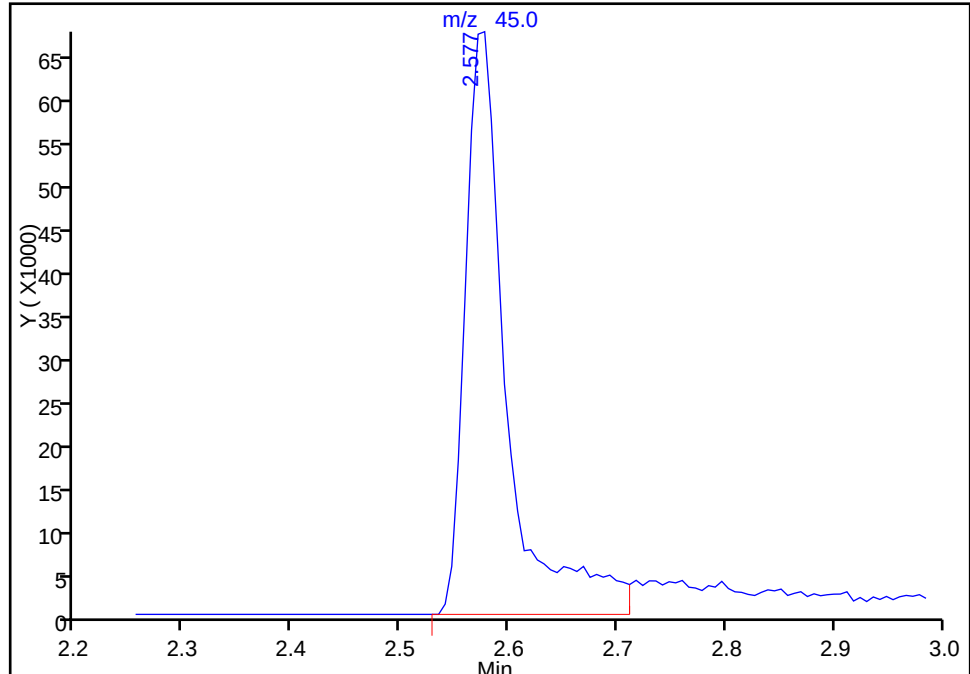
Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

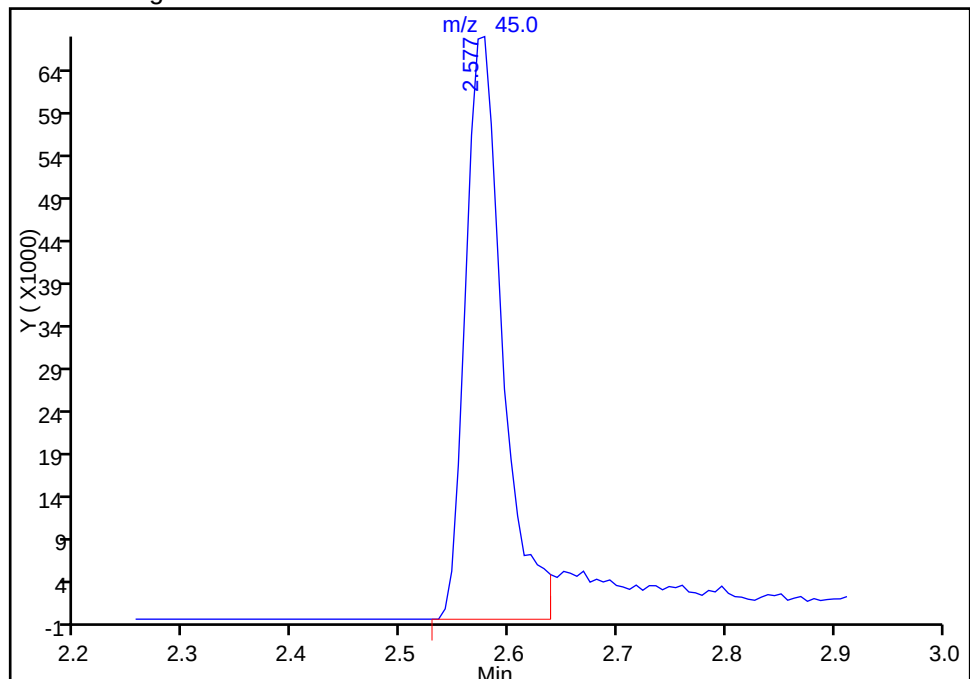
RT: 2.58
Area: 180360
Amount: 3538.4914
Amount Units: ug/L

Processing Integration Results



RT: 2.58
Area: 160388
Amount: 3840.2500
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:40:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D

Injection Date: 09-Nov-2016 23:47:30

Instrument ID: HP5973S

Lims ID: IC 14

Client ID:

Operator ID: JG

ALS Bottle#:

22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

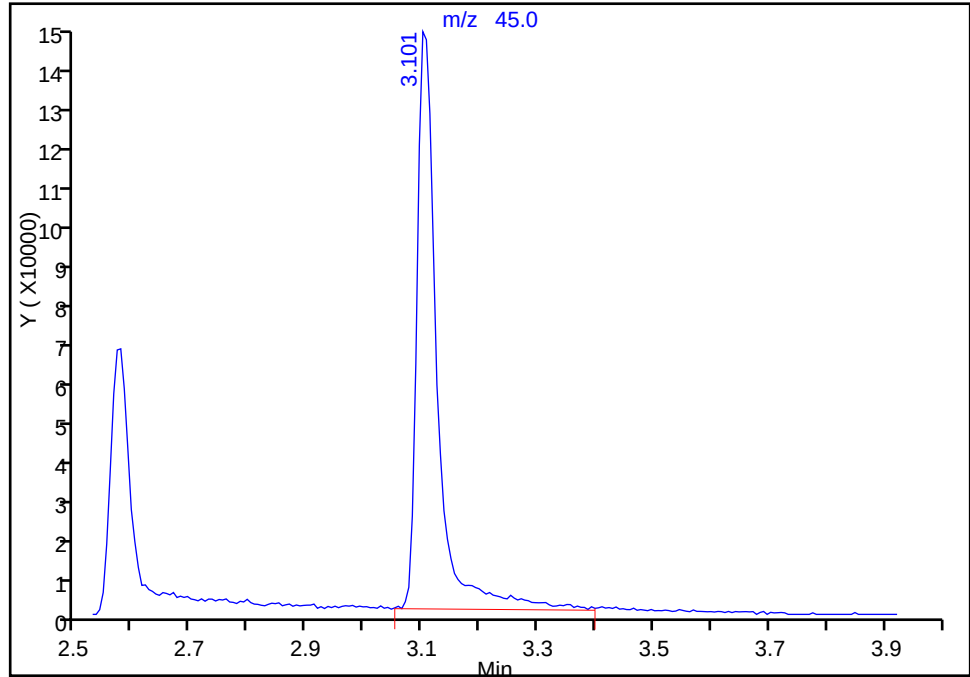
Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

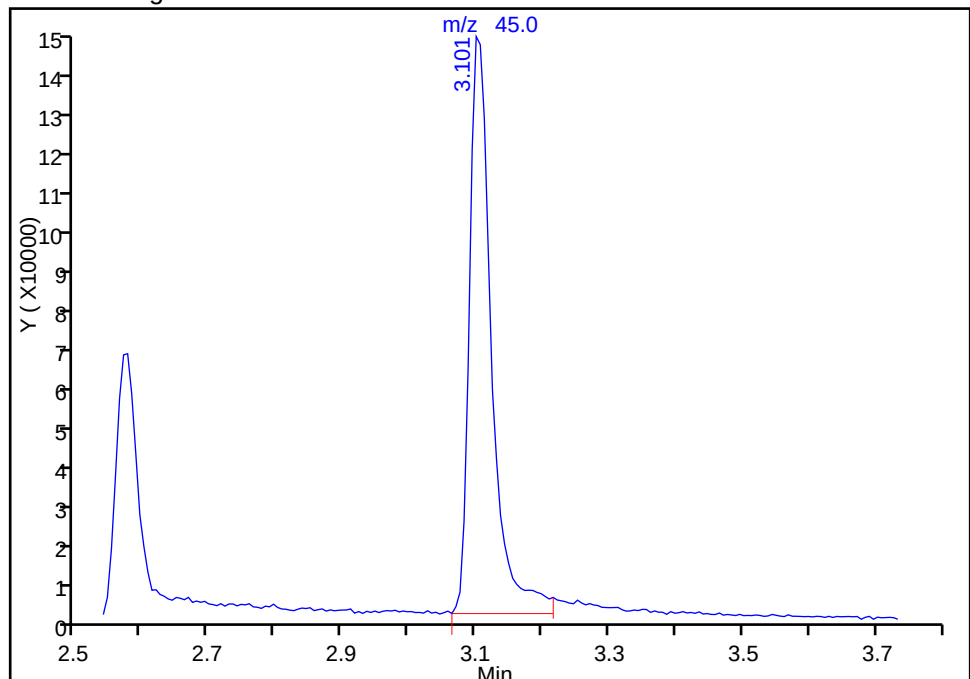
RT: 3.10
Area: 360679
Amount: 967.0028
Amount Units: ug/L

Processing Integration Results



RT: 3.10
Area: 339703
Amount: 918.1412
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 10-Nov-2016 09:44:01

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Lab Sample ID: CCVIS 480-334403/2 Calibration Date: 12/02/2016 09:03

Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33

Lab File ID: S0247.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	0.9657	0.8123	0.1000	21.0	25.0	-15.9	50.0
Chloromethane	Ave	1.071	0.9284	0.1000	21.7	25.0	-13.3	20.0
Vinyl chloride	Ave	0.999	0.9725	0.1000	24.3	25.0	-2.6	20.0
Butadiene	Lin1		0.9606		23.9	25.0	-4.2	20.0
Bromomethane	Ave	0.6112	0.5955	0.1000	24.4	25.0	-2.6	50.0
Chloroethane	Ave	0.6169	0.6251	0.1000	25.3	25.0	1.3	50.0
Dichlorofluoromethane	Ave	1.770	1.562		22.1	25.0	-11.8	20.0
Trichlorofluoromethane	Lin1		1.168	0.1000	20.7	25.0	-17.0	20.0
Ethyl ether	Ave	0.9672	0.9730		25.2	25.0	0.6	20.0
Acrolein	Ave	0.1982	0.1764		111	125	-11.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.8863	0.1000	22.7	25.0	-9.1	20.0
1,1-Dichloroethene	Ave	0.9649	0.9206	0.1000	23.9	25.0	-4.6	20.0
Acetone	Ave	0.4198	0.3771	0.1000	112	125	-10.2	50.0
Iodomethane	Lin1		1.488		24.5	25.0	-2.2	20.0
Carbon disulfide	Ave	3.213	2.685	0.1000	20.9	25.0	-16.4	20.0
Allyl chloride	Ave	1.493	1.514		25.4	25.0	1.4	20.0
Methyl acetate	Ave	0.9405	0.8371	0.1000	111	125	-11.0	50.0
Methylene Chloride	Lin1		1.031	0.1000	21.9	25.0	-12.4	20.0
2-Methyl-2-propanol	Ave	0.1604	0.1487		232	250	-7.3	50.0
Methyl tert-butyl ether	Ave	3.444	3.217	0.1000	23.4	25.0	-6.6	20.0
trans-1,2-Dichloroethene	Ave	1.062	0.999	0.1000	23.5	25.0	-5.9	20.0
Acrylonitrile	Ave	0.4789	0.4539		237	250	-5.2	20.0
Hexane	Ave	1.711	1.568		22.9	25.0	-8.4	20.0
1,1-Dichloroethane	Ave	1.931	1.782	0.2000	23.1	25.0	-7.7	20.0
Vinyl acetate	Ave	2.317	2.271		49.0	50.0	-1.9	20.0
2,2-Dichloropropane	Ave	0.8606	0.9427		27.4	25.0	9.5	20.0
cis-1,2-Dichloroethene	Ave	1.187	1.175	0.1000	24.7	25.0	-1.1	20.0
2-Butanone (MEK)	Ave	0.5972	0.5607	0.1000	117	125	-6.1	20.0
Chlorobromomethane	Ave	0.6050	0.5754		23.8	25.0	-4.9	20.0
Tetrahydrofuran	Ave	0.4115	0.3399		41.3	50.0	-17.4	20.0
Chloroform	Ave	1.866	1.740	0.2000	23.3	25.0	-6.8	20.0
1,1,1-Trichloroethane	Ave	1.294	1.287	0.1000	24.9	25.0	-0.5	20.0
Cyclohexane	Ave	1.825	1.704	0.1000	23.3	25.0	-6.6	20.0
Carbon tetrachloride	Ave	1.250	1.242	0.1000	24.8	25.0	-0.7	20.0
1,1-Dichloropropene	Ave	1.436	1.351		23.5	25.0	-5.9	20.0
Benzene	Ave	4.430	4.115	0.5000	23.2	25.0	-7.1	20.0
Isobutyl alcohol	Ave	0.0609	0.0604		620	625	-0.9	50.0
1,2-Dichloroethane	Ave	1.649	1.489	0.1000	22.6	25.0	-9.7	20.0
n-Heptane	Ave	1.769	1.437		20.3	25.0	-18.8	20.0
Trichloroethene	Ave	1.120	1.038	0.2000	23.2	25.0	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Lab Sample ID: CCVIS 480-334403/2 Calibration Date: 12/02/2016 09:03

Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33

Lab File ID: S0247.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	1.850	1.764	0.1000	23.8	25.0	-4.7	20.0
1,2-Dichloropropane	Ave	1.096	1.038	0.1000	23.7	25.0	-5.3	20.0
Dibromomethane	Ave	0.6631	0.6504	0.1000	24.5	25.0	-1.9	20.0
1,4-Dioxane	Ave	0.0075	0.0078		515	500	3.0	50.0
Bromodichloromethane	Ave	1.341	1.282	0.2000	23.9	25.0	-4.3	20.0
2-Chloroethyl vinyl ether	Ave	0.7178	0.7197		25.1	25.0	0.3	20.0
cis-1,3-Dichloropropene	Ave	1.718	1.711	0.2000	24.9	25.0	-0.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5823	0.5543	0.1000	119	125	-4.8	20.0
Toluene	Ave	1.427	1.352	0.4000	23.7	25.0	-5.2	20.0
trans-1,3-Dichloropropene	Ave	0.7583	0.7704	0.1000	25.4	25.0	1.6	20.0
Ethyl methacrylate	Ave	0.6574	0.7021		26.7	25.0	6.8	20.0
1,1,2-Trichloroethane	Ave	0.3874	0.3858	0.1000	24.9	25.0	-0.4	20.0
Tetrachloroethene	Ave	0.6354	0.5939	0.2000	23.4	25.0	-6.5	20.0
1,3-Dichloropropane	Ave	0.8574	0.8417		24.5	25.0	-1.8	20.0
2-Hexanone	Ave	0.4318	0.4042	0.1000	117	125	-6.4	20.0
Dibromochloromethane	Ave	0.5067	0.5172	0.1000	25.5	25.0	2.1	20.0
1,2-Dibromoethane	Ave	0.4986	0.4873		24.4	25.0	-2.3	20.0
Chlorobenzene	Ave	1.591	1.506	0.5000	23.7	25.0	-5.4	20.0
Ethylbenzene	Ave	2.618	2.457	0.1000	23.5	25.0	-6.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5080	0.5250		25.8	25.0	3.3	20.0
m,p-Xylene	Ave	1.067	0.9937	0.1000	23.3	25.0	-6.9	20.0
o-Xylene	Ave	1.050	0.9720	0.3000	23.2	25.0	-7.4	20.0
Styrene	Ave	1.690	1.643	0.3000	24.3	25.0	-2.8	20.0
Bromoform	Ave	0.3075	0.3370	0.1000	27.4	25.0	9.6	50.0
Isopropylbenzene	Ave	2.578	2.489	0.1000	24.1	25.0	-3.4	20.0
Bromobenzene	Ave	0.6923	0.6601		23.8	25.0	-4.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6103	0.6319	0.3000	25.9	25.0	3.5	20.0
1,2,3-Trichloropropane	Ave	0.2154	0.2141		24.9	25.0	-0.6	20.0
N-Propylbenzene	Ave	2.982	2.884		24.2	25.0	-3.3	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1767		23.2	25.0	-7.2	50.0
2-Chlorotoluene	Ave	0.6349	0.6000		23.6	25.0	-5.5	20.0
1,3,5-Trimethylbenzene	Ave	2.203	2.174		24.7	25.0	-1.3	20.0
4-Chlorotoluene	Ave	0.6613	0.6346		24.0	25.0	-4.0	20.0
tert-Butylbenzene	Ave	0.5120	0.4868		23.8	25.0	-4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.275	2.233		24.5	25.0	-1.8	20.0
sec-Butylbenzene	Ave	2.819	2.716		24.1	25.0	-3.7	20.0
1,3-Dichlorobenzene	Ave	1.308	1.288	0.6000	24.6	25.0	-1.5	20.0
4-Isopropyltoluene	Ave	2.478	2.401		24.2	25.0	-3.1	20.0
1,4-Dichlorobenzene	Ave	1.357	1.308	0.5000	24.1	25.0	-3.7	20.0
n-Butylbenzene	Ave	2.109	2.064		24.5	25.0	-2.2	20.0
1,2-Dichlorobenzene	Ave	1.285	1.250	0.4000	24.3	25.0	-2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334403/2 Calibration Date: 12/02/2016 09:03
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
 Lab File ID: S0247.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	0.1146	0.1212	0.0500	26.5	25.0	5.8	50.0
1,2,4-Trichlorobenzene	Ave	0.9653	0.9205	0.2000	23.8	25.0	-4.6	20.0
Hexachlorobutadiene	Ave	0.4614	0.4236		23.0	25.0	-8.2	20.0
Naphthalene	Ave	2.414	2.282		23.6	25.0	-5.4	20.0
1,2,3-Trichlorobenzene	Ave	0.9019	0.8361		23.2	25.0	-7.3	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.204		25.2	25.0	0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7637	0.7575		24.8	25.0	-0.8	20.0
Toluene-d8 (Surr)	Ave	2.466	2.551		25.9	25.0	3.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8273	0.8147		24.6	25.0	-1.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0247.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 02-Dec-2016 09:03:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0058820-002
 Operator ID: NEA Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 09:26:21 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: archern

Date: 02-Dec-2016 09:26:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	84122	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	166132	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	54	166337	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	82	101320	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	63725	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	423810	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	135347	25.0	24.6	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	84	68332	25.0	21.0	
12 Chloromethane	50	1.501	1.501	0.000	88	78100	25.0	21.7	
13 Vinyl chloride	62	1.604	1.604	0.000	80	81808	25.0	24.3	
151 Butadiene	54	1.635	1.635	0.000	88	80805	25.0	23.9	
14 Bromomethane	94	1.939	1.939	0.000	82	50097	25.0	24.4	
15 Chloroethane	64	2.048	2.048	0.000	93	52587	25.0	25.3	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	80	131384	25.0	22.1	
17 Trichlorofluoromethane	101	2.273	2.273	0.000	51	98252	25.0	20.7	
18 Ethyl ether	59	2.571	2.571	0.000	88	81853	25.0	25.2	
20 Acrolein	56	2.748	2.748	0.000	91	74182	125.0	111.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.803	2.803	0.000	61	74555	25.0	22.7	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	82	77446	25.0	23.9	
23 Acetone	43	2.912	2.912	0.000	100	158611	125.0	112.3	
25 Iodomethane	142	2.979	2.979	0.000	94	125159	25.0	24.5	
26 Carbon disulfide	76	3.016	3.016	0.000	98	225827	25.0	20.9	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	89	127383	25.0	25.4	
27 Methyl acetate	43	3.222	3.222	0.000	94	352070	125.0	111.2	
30 Methylene Chloride	84	3.320	3.320	0.000	83	86752	25.0	21.9	
31 2-Methyl-2-propanol	59	3.478	3.478	0.000	97	125080	250.0	231.7	
32 Methyl tert-butyl ether	73	3.545	3.545	0.000	84	270612	25.0	23.4	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	92	84024	25.0	23.5	
33 Acrylonitrile	53	3.600	3.600	0.000	98	381808	250.0	236.9	
35 Hexane	57	3.764	3.764	0.000	90	131867	25.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.983	3.983	0.000	81	149941	25.0	23.1	
37 Vinyl acetate	43	4.032	4.032	0.000	97	382148	50.0	49.0	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	89	79304	25.0	27.4	
45 cis-1,2-Dichloroethene	96	4.543	4.543	0.000	79	98812	25.0	24.7	
43 2-Butanone (MEK)	43	4.573	4.573	0.000	94	235832	125.0	117.4	
48 Chlorobromomethane	128	4.780	4.780	0.000	92	48402	25.0	23.8	
49 Tetrahydrofuran	42	4.804	4.804	0.000	87	57179	50.0	41.3	
50 Chloroform	83	4.859	4.859	0.000	69	146366	25.0	23.3	
51 1,1,1-Trichloroethane	97	4.981	4.981	0.000	94	108245	25.0	24.9	
52 Cyclohexane	56	4.993	4.993	0.000	87	143314	25.0	23.3	
55 Carbon tetrachloride	117	5.120	5.120	0.000	89	104442	25.0	24.8	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	93	113610	25.0	23.5	
57 Benzene	78	5.333	5.333	0.000	96	346165	25.0	23.2	
53 Isobutyl alcohol	43	5.333	5.333	0.000	57	126963	625.0	619.6	
58 1,2-Dichloroethane	62	5.394	5.394	0.000	78	125219	25.0	22.6	
59 n-Heptane	43	5.522	5.522	0.000	90	120879	25.0	20.3	
62 Trichloroethene	95	5.948	5.948	0.000	95	87346	25.0	23.2	
64 Methylcyclohexane	83	6.076	6.076	0.000	89	148354	25.0	23.8	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	93	87280	25.0	23.7	
67 Dibromomethane	93	6.325	6.325	0.000	87	54710	25.0	24.5	
66 1,4-Dioxane	88	6.337	6.337	0.000	55	25753	500.0	515.2	
68 Dichlorobromomethane	83	6.477	6.477	0.000	92	107868	25.0	23.9	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	87	60543	25.0	25.1	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	90	143971	25.0	24.9	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	94	460417	125.0	119.0	
74 Toluene	92	7.189	7.189	0.000	93	224576	25.0	23.7	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	92	127992	25.0	25.4	
75 Ethyl methacrylate	69	7.511	7.511	0.000	69	116645	25.0	26.7	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	86	64097	25.0	24.9	
81 Tetrachloroethene	166	7.724	7.724	0.000	89	98658	25.0	23.4	
82 1,3-Dichloropropane	76	7.815	7.815	0.000	89	139829	25.0	24.5	
80 2-Hexanone	43	7.876	7.876	0.000	77	335733	125.0	117.0	
83 Chlorodibromomethane	129	8.053	8.053	0.000	87	85916	25.0	25.5	
84 Ethylene Dibromide	107	8.162	8.162	0.000	98	80949	25.0	24.4	
87 Chlorobenzene	112	8.643	8.643	0.000	94	250168	25.0	23.7	
88 Ethylbenzene	91	8.734	8.734	0.000	98	408266	25.0	23.5	
89 1,1,1,2-Tetrachloroethane	131	8.740	8.740	0.000	41	87224	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	165085	25.0	23.3	
91 o-Xylene	106	9.282	9.282	0.000	96	161473	25.0	23.2	
92 Styrene	104	9.312	9.312	0.000	93	272974	25.0	24.3	
95 Bromoform	173	9.555	9.555	0.000	96	55986	25.0	27.4	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	414065	25.0	24.1	
101 Bromobenzene	156	10.006	10.006	0.000	92	109806	25.0	23.8	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	105102	25.0	25.9	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	48	35618	25.0	24.9	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	479640	25.0	24.2	
98 trans-1,4-Dichloro-2-buten	53	10.091	10.091	0.000	37	29383	25.0	23.2	
103 2-Chlorotoluene	126	10.188	10.188	0.000	96	99803	25.0	23.6	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	79	361569	25.0	24.7	
105 4-Chlorotoluene	126	10.298	10.298	0.000	95	105564	25.0	24.0	
106 tert-Butylbenzene	134	10.571	10.571	0.000	90	80967	25.0	23.8	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	38	371481	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	93	451735	25.0	24.1	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	96	399313	25.0	24.2	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	69	214278	25.0	24.6	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	217494	25.0	24.1	
115 n-Butylbenzene	91	11.301	11.301	0.000	94	343310	25.0	24.5	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	207907	25.0	24.3	
117 1,2-Dibromo-3-Chloropropan	75	12.074	12.074	0.000	74	20160	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	12.749	12.749	0.000	93	153110	25.0	23.8	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	91	70458	25.0	23.0	
121 Naphthalene	128	12.962	12.962	0.000	96	379592	25.0	23.6	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	94	139075	25.0	23.2	

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00192	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161202-58820.b\\S0247.D

Injection Date: 02-Dec-2016 09:03:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

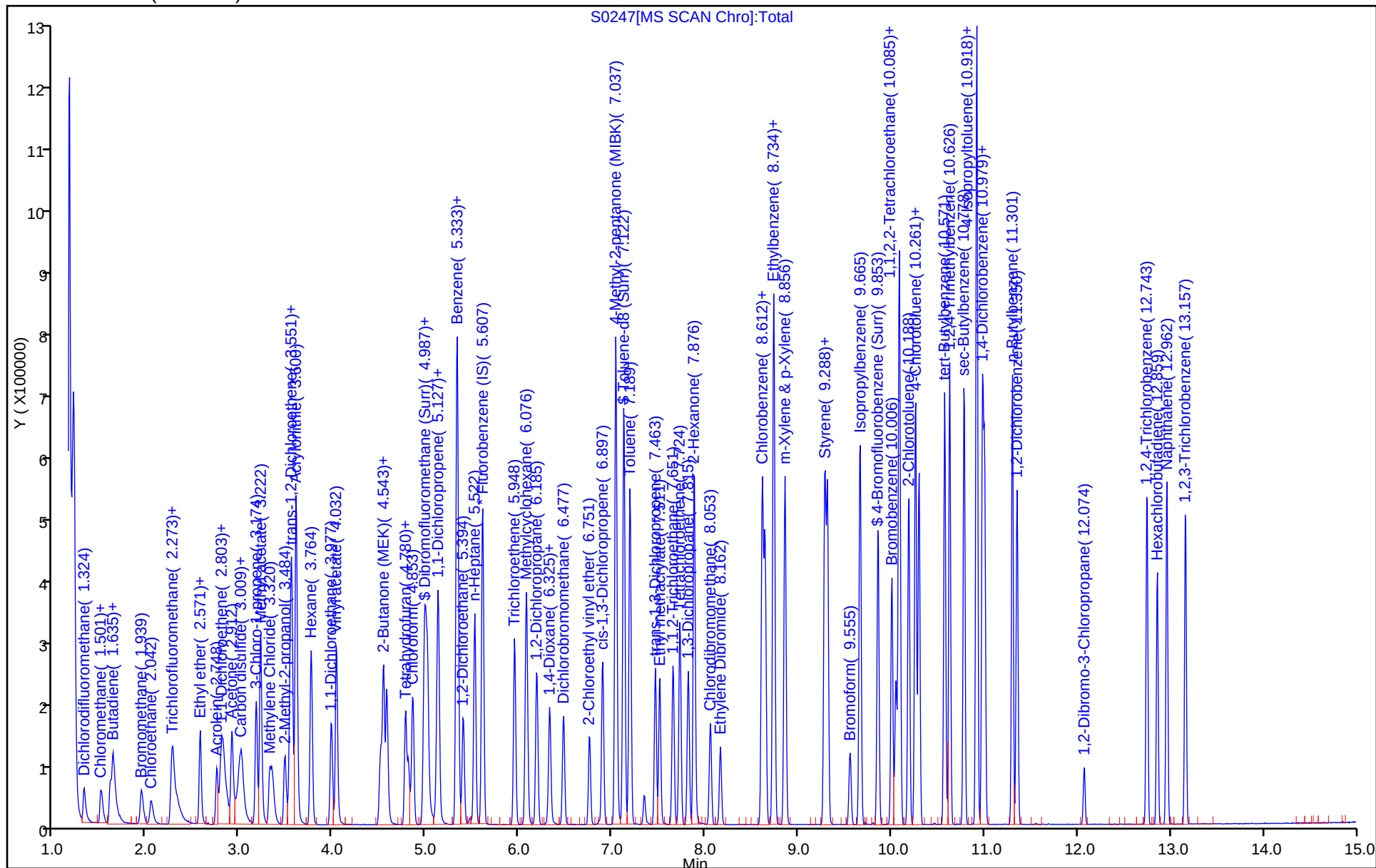
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: S-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.: 480-110191-1
SDG No.: _____
Lab Sample ID: CCV 480-334403/3 Calibration Date: 12/02/2016 09:26
Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
Lab File ID: S0248.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
Dibromofluoromethane (Surr)	Ave	1.197	1.206		25.2	25.0	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7637	0.7695		25.2	25.0	0.8	20.0
Toluene-d8 (Surr)	Ave	2.466	2.518		25.5	25.0	2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8273	0.7881		23.8	25.0	-4.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0248.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Dec-2016 09:26:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0058820-003
 Operator ID: NEA Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 09:44:33 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: archern

Date: 02-Dec-2016 09:44:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	80112	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	85	160732	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	89	155129	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	96647	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	61645	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	91	404669	25.0	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	92	126673	25.0	23.8	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	73	71387	25.0	18.4	
148 Ethanol	45	2.565	2.565	0.000	93	43607	1000.0	1299.9	
19 Propene oxide	58	2.657	2.657	0.000	94	118731	NC	NC	
24 Isopropyl alcohol	45	3.095	3.095	0.000	96	68033	250.0	232.1	
29 Acetonitrile	40	3.222	3.222	0.000	99	63577	250.0	214.8	
36 Isopropyl ether	45	4.001	4.001	0.000	93	265795	25.0	23.8	
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	83	124604	25.0	22.8	
38 1,1-Dimethoxyethane	75	4.074	4.074	0.000	91	84453	125.0	117.7	
41 Tert-butyl ethyl ether	59	4.342	4.342	0.000	97	286499	25.0	24.5	
42 Ethyl acetate	43	4.609	4.609	0.000	97	175310	50.0	46.2	
46 Propionitrile	54	4.676	4.676	0.000	98	147515	250.0	233.0	
47 Methacrylonitrile	41	4.786	4.786	0.000	91	566731	250.0	229.6	
152 Isooctane	57	5.339	5.339	0.000	95	281768	25.0	26.3	
147 t-Amyl alcohol	59	5.394	5.394	0.000	49	98503	250.0	226.8	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	80	315440	25.0	24.1	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	268284	25.0	24.2	
60 n-Butanol	56	5.960	5.960	0.000	84	81298	625.0	598.4	
142 Ethyl acrylate	55	6.069	6.069	0.000	95	120926	25.0	23.5	
63 Methyl methacrylate	41	6.282	6.282	0.000	90	156423	50.0	44.0	
70 2-Nitropropane	43	6.726	6.726	0.000	95	43017	50.0	47.6	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	102744	250.0	234.4	
76 2-Methylthiophene	97	7.329	7.329	0.000	96	322474	25.0	27.7	
78 3-Methylthiophene	97	7.493	7.493	0.000	98	313735	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	96	132675	25.0	22.6	
146 1-Chlorohexane	55	8.588	8.588	0.000	97	76759	25.0	22.9	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	80	130502	25.0	25.4	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	91	124651	25.0	25.7	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	98	137994	25.0	25.7	
96 Cyclohexanone	55	9.823	9.823	0.000	87	39010	250.0	235.5	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	102028	25.0	25.3	
108 Pentachloroethane	167	10.632	10.632	0.000	85	56240	25.0	32.0	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	376232	25.0	24.2	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	61	379661	25.0	26.0	
150 Benzyl chloride	126	11.143	11.143	0.000	98	40463	25.0	24.8	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	94	158653	25.0	24.7	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	89	198737	25.0	21.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00057	Amount Added: 12.50	Units: uL	
3MTP_WRK_00059	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0248.D

Injection Date: 02-Dec-2016 09:26:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

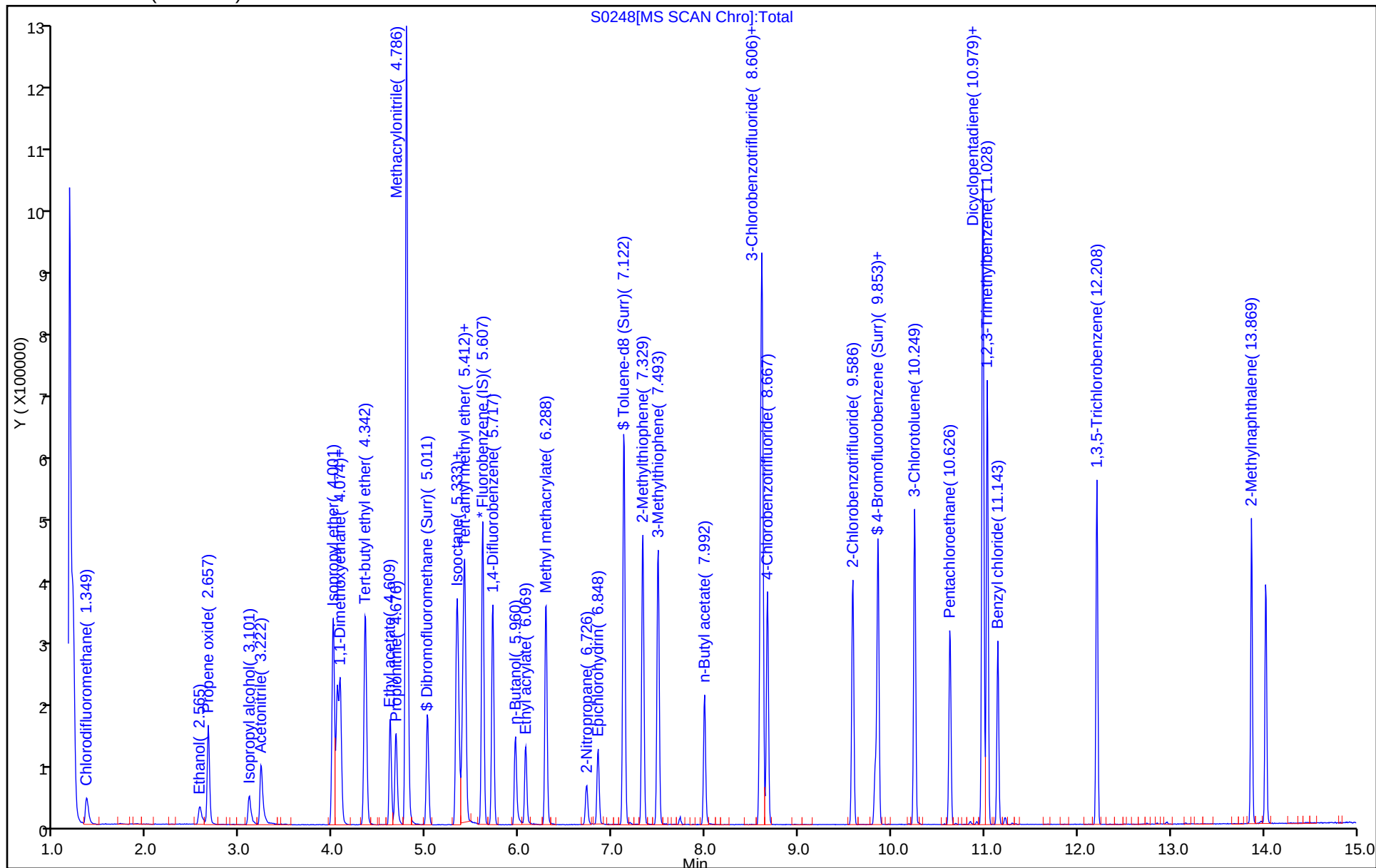
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-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.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCV 480-334403/3 Calibration Date: 12/02/2016 09:26
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 21:28
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 23:47
 Lab File ID: S0248.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
Chlorodifluoromethane	Ave	1.210	0.8911		18.4	25.0	-26.3*	20.0
Ethanol	Lin1		0.0136		1300	1000	30.0*	20.0
Isopropyl alcohol	Ave	0.0915	0.0849		232	250	-7.2	20.0
Acetonitrile	Ave	0.0924	0.0794		215	250	-14.1	20.0
Isopropyl ether	Ave	3.482	3.318		23.8	25.0	-4.7	20.0
Chloroprene	Ave	1.704	1.555		22.8	25.0	-8.7	20.0
1,1-Dimethoxyethane	Ave	0.2239	0.2108		118	125	-5.8	20.0
Tert-butyl ethyl ether	Ave	3.655	3.576		24.5	25.0	-2.2	20.0
Ethyl acetate	Ave	1.183	1.094		46.2	50.0	-7.5	20.0
Propionitrile	Ave	0.1976	0.1841		233	250	-6.8	20.0
Methacrylonitrile	Ave	0.7702	0.7074		230	250	-8.2	20.0
Isooctane	Ave	3.345	3.517		26.3	25.0	5.1	20.0
t-Amyl alcohol	Ave	0.1355	0.1230		227	250	-9.3	20.0
Tert-amyl methyl ether	Ave	4.076	3.937		24.1	25.0	-3.4	20.0
1,4-Difluorobenzene	Ave	3.460	3.349		24.2	25.0	-3.2	20.0
n-Butanol	Ave	0.0424	0.0406		598	625	-4.3	20.0
Ethyl acrylate	Ave	1.608	1.509		23.5	25.0	-6.2	20.0
Methyl methacrylate	Ave	1.110	0.9763		44.0	50.0	-12.0	20.0
2-Nitropropane	Ave	0.1456	0.1387		47.6	50.0	-4.8	20.0
Epichlorohydrin	Ave	0.1368	0.1283		234	250	-6.2	20.0
2-Methylthiophene	Ave	1.879	2.079		27.7	25.0	10.6	20.0
3-Methylthiophene	Ave	1.962	2.022		25.8	25.0	3.1	20.0
n-Butyl acetate	Ave	1.830	1.656	0.1000	22.6	25.0	-9.5	20.0
1-Chlorohexane	Lin1		0.4776		22.9	25.0	-8.6	20.0
3-Chlorobenzotrifluoride	Ave	0.8268	0.8413		25.4	25.0	1.7	20.0
4-Chlorobenzotrifluoride	Ave	0.7814	0.8035		25.7	25.0	2.8	20.0
2-Chlorobenzotrifluoride	Ave	0.8646	0.8895		25.7	25.0	2.9	20.0
Cyclohexanone	Ave	0.0267	0.0252		235	250	-5.8	20.0
3-Chlorotoluene	Ave	0.6488	0.6577		25.3	25.0	1.4	20.0
Pentachloroethane	Ave	0.2828	0.3625		32.0	25.0	28.2*	20.0
Dicyclopentadiene	Ave	2.508	2.425		24.2	25.0	-3.3	20.0
1,2,3-Trimethylbenzene	Ave	2.350	2.447		26.0	25.0	4.1	20.0
Benzyl chloride	Ave	0.2535	0.2517		24.8	25.0	-0.7	20.0
1,3,5-Trichlorobenzene	Ave	1.034	1.023		24.7	25.0	-1.1	20.0
2-Methylnaphthalene	Ave	1.508	1.281		21.2	25.0	-15.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0248.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Dec-2016 09:26:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0058820-003
 Operator ID: NEA Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 09:44:33 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: archern

Date: 02-Dec-2016 09:44:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	80112	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	85	160732	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	89	155129	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	96647	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	61645	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	91	404669	25.0	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	92	126673	25.0	23.8	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	73	71387	25.0	18.4	
148 Ethanol	45	2.565	2.565	0.000	93	43607	1000.0	1299.9	
19 Propene oxide	58	2.657	2.657	0.000	94	118731	NC	NC	
24 Isopropyl alcohol	45	3.095	3.095	0.000	96	68033	250.0	232.1	
29 Acetonitrile	40	3.222	3.222	0.000	99	63577	250.0	214.8	
36 Isopropyl ether	45	4.001	4.001	0.000	93	265795	25.0	23.8	
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	83	124604	25.0	22.8	
38 1,1-Dimethoxyethane	75	4.074	4.074	0.000	91	84453	125.0	117.7	
41 Tert-butyl ethyl ether	59	4.342	4.342	0.000	97	286499	25.0	24.5	
42 Ethyl acetate	43	4.609	4.609	0.000	97	175310	50.0	46.2	
46 Propionitrile	54	4.676	4.676	0.000	98	147515	250.0	233.0	
47 Methacrylonitrile	41	4.786	4.786	0.000	91	566731	250.0	229.6	
152 Isooctane	57	5.339	5.339	0.000	95	281768	25.0	26.3	
147 t-Amyl alcohol	59	5.394	5.394	0.000	49	98503	250.0	226.8	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	80	315440	25.0	24.1	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	268284	25.0	24.2	
60 n-Butanol	56	5.960	5.960	0.000	84	81298	625.0	598.4	
142 Ethyl acrylate	55	6.069	6.069	0.000	95	120926	25.0	23.5	
63 Methyl methacrylate	41	6.282	6.282	0.000	90	156423	50.0	44.0	
70 2-Nitropropane	43	6.726	6.726	0.000	95	43017	50.0	47.6	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	102744	250.0	234.4	
76 2-Methylthiophene	97	7.329	7.329	0.000	96	322474	25.0	27.7	
78 3-Methylthiophene	97	7.493	7.493	0.000	98	313735	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	96	132675	25.0	22.6	
146 1-Chlorohexane	55	8.588	8.588	0.000	97	76759	25.0	22.9	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	80	130502	25.0	25.4	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	91	124651	25.0	25.7	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	98	137994	25.0	25.7	
96 Cyclohexanone	55	9.823	9.823	0.000	87	39010	250.0	235.5	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	102028	25.0	25.3	
108 Pentachloroethane	167	10.632	10.632	0.000	85	56240	25.0	32.0	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	376232	25.0	24.2	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	61	379661	25.0	26.0	
150 Benzyl chloride	126	11.143	11.143	0.000	98	40463	25.0	24.8	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	94	158653	25.0	24.7	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	89	198737	25.0	21.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00057	Amount Added: 12.50	Units: uL	
3MTP_WRK_00059	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0248.D

Injection Date: 02-Dec-2016 09:26:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

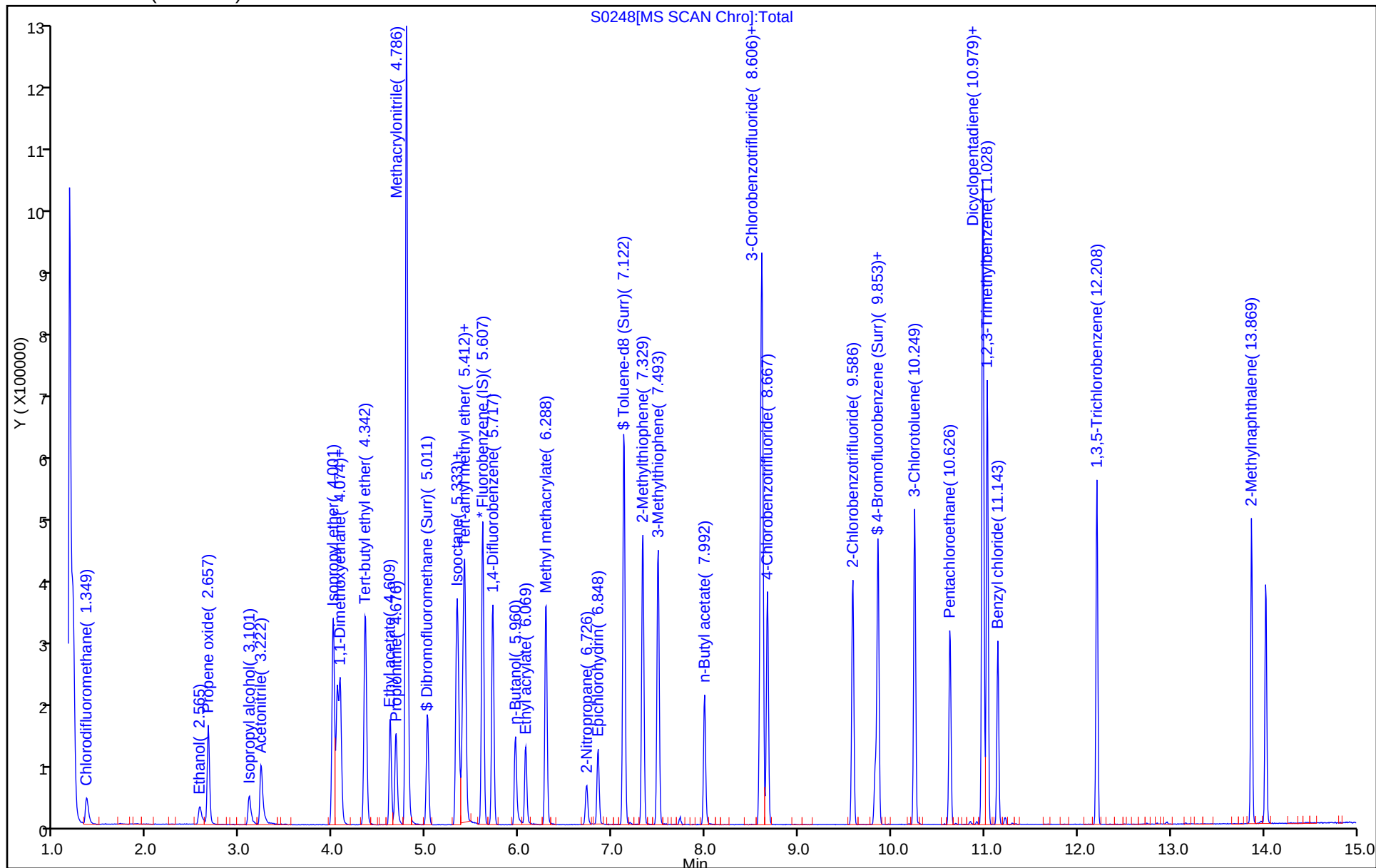
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-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.: 480-110191-1

SDG No.: _____

Lab Sample ID: CCVIS 480-334536/2 Calibration Date: 12/02/2016 19:50

Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33

Lab File ID: S0274.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	0.9657	0.6148	0.1000	15.9	25.0	-36.3	50.0
Chloromethane	Ave	1.071	0.8743	0.1000	20.4	25.0	-18.3	20.0
Vinyl chloride	Ave	0.999	1.018	0.1000	25.5	25.0	1.9	20.0
Butadiene	Lin1		1.014		25.2	25.0	1.0	20.0
Bromomethane	Ave	0.6112	0.5571	0.1000	22.8	25.0	-8.8	50.0
Chloroethane	Ave	0.6169	0.6527	0.1000	26.4	25.0	5.8	50.0
Dichlorofluoromethane	Ave	1.770	1.769		25.0	25.0	-0.0	20.0
Trichlorofluoromethane	Lin1		1.362	0.1000	24.1	25.0	-3.5	20.0
Ethyl ether	Ave	0.9672	1.035		26.7	25.0	7.0	20.0
Acrolein	Ave	0.1982	0.1706		108	125	-13.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.019	0.1000	26.0	25.0	4.2	20.0
1,1-Dichloroethene	Ave	0.9649	1.036	0.1000	26.8	25.0	7.4	20.0
Acetone	Ave	0.4198	0.3801	0.1000	113	125	-9.5	50.0
Iodomethane	Lin1		1.580		25.9	25.0	3.8	20.0
Carbon disulfide	Ave	3.213	2.973	0.1000	23.1	25.0	-7.5	20.0
Allyl chloride	Ave	1.493	1.623		27.2	25.0	8.7	20.0
Methyl acetate	Ave	0.9405	0.8139	0.1000	108	125	-13.5	50.0
Methylene Chloride	Lin1		1.090	0.1000	23.2	25.0	-7.1	20.0
2-Methyl-2-propanol	Ave	0.1604	0.1289		201	250	-19.7	50.0
Methyl tert-butyl ether	Ave	3.444	3.247	0.1000	23.6	25.0	-5.7	20.0
trans-1,2-Dichloroethene	Ave	1.062	1.100	0.1000	25.9	25.0	3.6	20.0
Acrylonitrile	Ave	0.4789	0.4432		231	250	-7.5	20.0
Hexane	Ave	1.711	1.763		25.8	25.0	3.0	20.0
1,1-Dichloroethane	Ave	1.931	1.909	0.2000	24.7	25.0	-1.1	20.0
Vinyl acetate	Ave	2.317	2.244		48.4	50.0	-3.1	20.0
2,2-Dichloropropane	Ave	0.8606	0.9770		28.4	25.0	13.5	20.0
cis-1,2-Dichloroethene	Ave	1.187	1.257	0.1000	26.5	25.0	5.8	20.0
2-Butanone (MEK)	Ave	0.5972	0.5323	0.1000	111	125	-10.9	20.0
Chlorobromomethane	Ave	0.6050	0.6052		25.0	25.0	0.0	20.0
Tetrahydrofuran	Ave	0.4115	0.3282		39.9	50.0	-20.2*	20.0
Chloroform	Ave	1.866	1.881	0.2000	25.2	25.0	0.8	20.0
1,1,1-Trichloroethane	Ave	1.294	1.426	0.1000	27.6	25.0	10.2	20.0
Cyclohexane	Ave	1.825	1.880	0.1000	25.8	25.0	3.0	20.0
Carbon tetrachloride	Ave	1.250	1.382	0.1000	27.6	25.0	10.6	20.0
1,1-Dichloropropene	Ave	1.436	1.481		25.8	25.0	3.2	20.0
Isobutyl alcohol	Ave	0.0609	0.0537		551	625	-11.8	50.0
Benzene	Ave	4.430	4.446	0.5000	25.1	25.0	0.3	20.0
1,2-Dichloroethane	Ave	1.649	1.558	0.1000	23.6	25.0	-5.5	20.0
n-Heptane	Ave	1.769	1.596		22.5	25.0	-9.8	20.0
Trichloroethene	Ave	1.120	1.140	0.2000	25.4	25.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334536/2 Calibration Date: 12/02/2016 19:50
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
 Lab File ID: S0274.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	1.850	1.966	0.1000	26.6	25.0	6.2	20.0
1,2-Dichloropropane	Ave	1.096	1.099	0.1000	25.1	25.0	0.3	20.0
Dibromomethane	Ave	0.6631	0.6448	0.1000	24.3	25.0	-2.8	20.0
1,4-Dioxane	Ave	0.0075	0.0063		421	500	-15.7	50.0
Bromodichloromethane	Ave	1.341	1.320	0.2000	24.6	25.0	-1.5	20.0
2-Chloroethyl vinyl ether	Ave	0.7178	0.6637		23.1	25.0	-7.5	20.0
cis-1,3-Dichloropropene	Ave	1.718	1.738	0.2000	25.3	25.0	1.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5823	0.5266	0.1000	113	125	-9.6	20.0
Toluene	Ave	1.427	1.457	0.4000	25.5	25.0	2.1	20.0
trans-1,3-Dichloropropene	Ave	0.7583	0.7874	0.1000	26.0	25.0	3.8	20.0
Ethyl methacrylate	Ave	0.6574	0.6815		25.9	25.0	3.7	20.0
1,1,2-Trichloroethane	Ave	0.3874	0.4012	0.1000	25.9	25.0	3.6	20.0
Tetrachloroethene	Ave	0.6354	0.6635	0.2000	26.1	25.0	4.4	20.0
1,3-Dichloropropane	Ave	0.8574	0.8654		25.2	25.0	0.9	20.0
2-Hexanone	Ave	0.4318	0.3851	0.1000	111	125	-10.8	20.0
Dibromochloromethane	Ave	0.5067	0.5298	0.1000	26.1	25.0	4.6	20.0
1,2-Dibromoethane	Ave	0.4986	0.5027		25.2	25.0	0.8	20.0
Chlorobenzene	Ave	1.591	1.614	0.5000	25.4	25.0	1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5080	0.5486		27.0	25.0	8.0	20.0
Ethylbenzene	Ave	2.618	2.598	0.1000	24.8	25.0	-0.8	20.0
m,p-Xylene	Ave	1.067	1.058	0.1000	24.8	25.0	-0.8	20.0
o-Xylene	Ave	1.050	1.029	0.3000	24.5	25.0	-2.0	20.0
Styrene	Ave	1.690	1.707	0.3000	25.3	25.0	1.0	20.0
Bromoform	Ave	0.3075	0.3370	0.1000	27.4	25.0	9.6	50.0
Isopropylbenzene	Ave	2.578	2.742	0.1000	26.6	25.0	6.4	20.0
Bromobenzene	Ave	0.6923	0.6933		25.0	25.0	0.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6103	0.6331	0.3000	25.9	25.0	3.7	20.0
1,2,3-Trichloropropane	Ave	0.2154	0.2133		24.8	25.0	-1.0	20.0
N-Propylbenzene	Ave	2.982	3.174		26.6	25.0	6.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1667		21.9	25.0	-12.2	50.0
2-Chlorotoluene	Ave	0.6349	0.6461		25.4	25.0	1.8	20.0
1,3,5-Trimethylbenzene	Ave	2.203	2.302		26.1	25.0	4.5	20.0
4-Chlorotoluene	Ave	0.6613	0.6830		25.8	25.0	3.3	20.0
tert-Butylbenzene	Ave	0.5120	0.5459		26.7	25.0	6.6	20.0
1,2,4-Trimethylbenzene	Ave	2.275	2.402		26.4	25.0	5.6	20.0
sec-Butylbenzene	Ave	2.819	2.986		26.5	25.0	5.9	20.0
1,3-Dichlorobenzene	Ave	1.308	1.364	0.6000	26.1	25.0	4.3	20.0
4-Isopropyltoluene	Ave	2.478	2.611		26.3	25.0	5.4	20.0
1,4-Dichlorobenzene	Ave	1.357	1.380	0.5000	25.4	25.0	1.7	20.0
n-Butylbenzene	Ave	2.109	2.310		27.4	25.0	9.5	20.0
1,2-Dichlorobenzene	Ave	1.285	1.314	0.4000	25.6	25.0	2.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334536/2 Calibration Date: 12/02/2016 19:50
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
 Lab File ID: S0274.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	0.1146	0.1184	0.0500	25.8	25.0	3.3	50.0
1,2,4-Trichlorobenzene	Ave	0.9653	0.9543	0.2000	24.7	25.0	-1.1	20.0
Hexachlorobutadiene	Ave	0.4614	0.4586		24.9	25.0	-0.6	20.0
Naphthalene	Ave	2.414	2.285		23.7	25.0	-5.3	20.0
1,2,3-Trichlorobenzene	Ave	0.9019	0.8571		23.8	25.0	-5.0	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.182		24.7	25.0	-1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7637	0.7463		24.4	25.0	-2.3	20.0
Toluene-d8 (Surr)	Ave	2.466	2.526		25.6	25.0	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8273	0.7810		23.6	25.0	-5.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0274.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 02-Dec-2016 19:50:30 ALS Bottle#: 29 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0058844-002
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:02:52 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: o'briens

Date: 02-Dec-2016 20:13:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.601	5.601	0.000	98	82867	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	162856	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	52	162451	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	83	97952	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.321	5.321	0.000	0	61846	25.0	24.4	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	411437	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	127190	25.0	23.6	
10 Dichlorodifluoromethane	85	1.318	1.318	0.000	82	50949	25.0	15.9	
12 Chloromethane	50	1.501	1.501	0.000	96	72451	25.0	20.4	
13 Vinyl chloride	62	1.598	1.598	0.000	81	84337	25.0	25.5	
151 Butadiene	54	1.628	1.628	0.000	89	84011	25.0	25.2	
14 Bromomethane	94	1.920	1.920	0.000	86	46166	25.0	22.8	
15 Chloroethane	64	2.042	2.042	0.000	89	54083	25.0	26.4	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	80	146575	25.0	25.0	
17 Trichlorofluoromethane	101	2.267	2.267	0.000	53	112864	25.0	24.1	
18 Ethyl ether	59	2.565	2.565	0.000	87	85740	25.0	26.7	
20 Acrolein	56	2.748	2.748	0.000	91	70678	125.0	107.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.797	2.797	0.000	53	84404	25.0	26.0	
22 1,1-Dichloroethene	96	2.803	2.803	0.000	84	85844	25.0	26.8	
23 Acetone	43	2.912	2.912	0.000	100	157481	125.0	113.2	
25 Iodomethane	142	2.979	2.979	0.000	95	130964	25.0	25.9	
26 Carbon disulfide	76	3.009	3.009	0.000	98	246371	25.0	23.1	
28 3-Chloro-1-propene	41	3.168	3.168	0.000	89	134502	25.0	27.2	
27 Methyl acetate	43	3.216	3.216	0.000	95	337211	125.0	108.2	
30 Methylene Chloride	84	3.338	3.338	0.000	82	90307	25.0	23.2	
31 2-Methyl-2-propanol	59	3.478	3.478	0.000	98	106814	250.0	200.9	
32 Methyl tert-butyl ether	73	3.539	3.539	0.000	86	269108	25.0	23.6	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	94	91182	25.0	25.9	
33 Acrylonitrile	53	3.600	3.600	0.000	98	367229	250.0	231.4	
35 Hexane	57	3.764	3.764	0.000	89	146073	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.977	3.977	0.000	97	158217	25.0	24.7	
37 Vinyl acetate	43	4.031	4.031	0.000	97	371981	50.0	48.4	
44 2,2-Dichloropropane	77	4.506	4.506	0.000	90	80959	25.0	28.4	
45 cis-1,2-Dichloroethene	96	4.536	4.536	0.000	66	104147	25.0	26.5	
43 2-Butanone (MEK)	43	4.573	4.573	0.000	93	220539	125.0	111.4	
48 Chlorobromomethane	128	4.774	4.774	0.000	93	50150	25.0	25.0	
49 Tetrahydrofuran	42	4.804	4.804	0.000	84	54399	50.0	39.9	
50 Chloroform	83	4.853	4.853	0.000	79	155860	25.0	25.2	
51 1,1,1-Trichloroethane	97	4.974	4.974	0.000	96	118172	25.0	27.6	
52 Cyclohexane	56	4.987	4.987	0.000	89	155811	25.0	25.8	
55 Carbon tetrachloride	117	5.114	5.114	0.000	81	114536	25.0	27.6	
54 1,1-Dichloropropene	75	5.127	5.127	0.000	95	122767	25.0	25.8	
53 Isobutyl alcohol	43	5.327	5.327	0.000	55	111250	625.0	551.2	
57 Benzene	78	5.333	5.333	0.000	97	368402	25.0	25.1	
58 1,2-Dichloroethane	62	5.394	5.394	0.000	72	129108	25.0	23.6	
59 n-Heptane	43	5.522	5.522	0.000	88	132217	25.0	22.5	
62 Trichloroethene	95	5.948	5.948	0.000	92	94432	25.0	25.4	
64 Methylcyclohexane	83	6.076	6.076	0.000	90	162878	25.0	26.6	
65 1,2-Dichloropropane	63	6.185	6.185	0.000	94	91060	25.0	25.1	
67 Dibromomethane	93	6.325	6.325	0.000	89	53431	25.0	24.3	
66 1,4-Dioxane	88	6.337	6.337	0.000	59	20654	500.0	421.5	
68 Dichlorobromomethane	83	6.477	6.477	0.000	92	109401	25.0	24.6	
69 2-Chloroethyl vinyl ether	63	6.751	6.751	0.000	89	54997	25.0	23.1	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	87	144056	25.0	25.3	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	95	428779	125.0	113.0	
74 Toluene	92	7.189	7.189	0.000	94	237253	25.0	25.5	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	93	128229	25.0	26.0	
75 Ethyl methacrylate	69	7.505	7.505	0.000	67	110984	25.0	25.9	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	91	65330	25.0	25.9	
81 Tetrachloroethene	166	7.724	7.724	0.000	85	108048	25.0	26.1	
82 1,3-Dichloropropane	76	7.815	7.815	0.000	90	140932	25.0	25.2	
80 2-Hexanone	43	7.876	7.876	0.000	77	313549	125.0	111.5	
83 Chlorodibromomethane	129	8.053	8.053	0.000	88	86285	25.0	26.1	
84 Ethylene Dibromide	107	8.162	8.162	0.000	97	81870	25.0	25.2	
87 Chlorobenzene	112	8.643	8.643	0.000	94	262863	25.0	25.4	
88 Ethylbenzene	91	8.734	8.734	0.000	98	423123	25.0	24.8	
89 1,1,1,2-Tetrachloroethane	131	8.734	8.734	0.000	39	89340	25.0	27.0	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	172328	25.0	24.8	
91 o-Xylene	106	9.282	9.282	0.000	96	167586	25.0	24.5	
92 Styrene	104	9.312	9.312	0.000	93	278068	25.0	25.3	
95 Bromoform	173	9.555	9.555	0.000	95	54888	25.0	27.4	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	445405	25.0	26.6	
101 Bromobenzene	156	10.006	10.006	0.000	91	112623	25.0	25.0	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	87	102847	25.0	25.9	
100 1,2,3-Trichloropropane	110	10.079	10.079	0.000	45	34649	25.0	24.8	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	515583	25.0	26.6	
98 trans-1,4-Dichloro-2-buten	53	10.091	10.091	0.000	36	27075	25.0	21.9	
103 2-Chlorotoluene	126	10.188	10.188	0.000	97	104951	25.0	25.4	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	86	374004	25.0	26.1	
105 4-Chlorotoluene	126	10.298	10.298	0.000	95	110961	25.0	25.8	
106 tert-Butylbenzene	134	10.571	10.571	0.000	90	88675	25.0	26.7	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	37	390229	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	93	485154	25.0	26.5	
111 1,3-Dichlorobenzene	146	10.912	10.912	0.000	76	221544	25.0	26.1	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	96	424123	25.0	26.3	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	224261	25.0	25.4	
115 n-Butylbenzene	91	11.301	11.301	0.000	96	375257	25.0	27.4	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	93	213406	25.0	25.6	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	62	19230	25.0	25.8	
119 1,2,4-Trichlorobenzene	180	12.749	12.749	0.000	92	155022	25.0	24.7	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	92	74507	25.0	24.9	
121 Naphthalene	128	12.962	12.962	0.000	97	371203	25.0	23.7	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	95	139242	25.0	23.8	

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00193	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161202-58844.b\\S0274.D

Injection Date: 02-Dec-2016 19:50:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

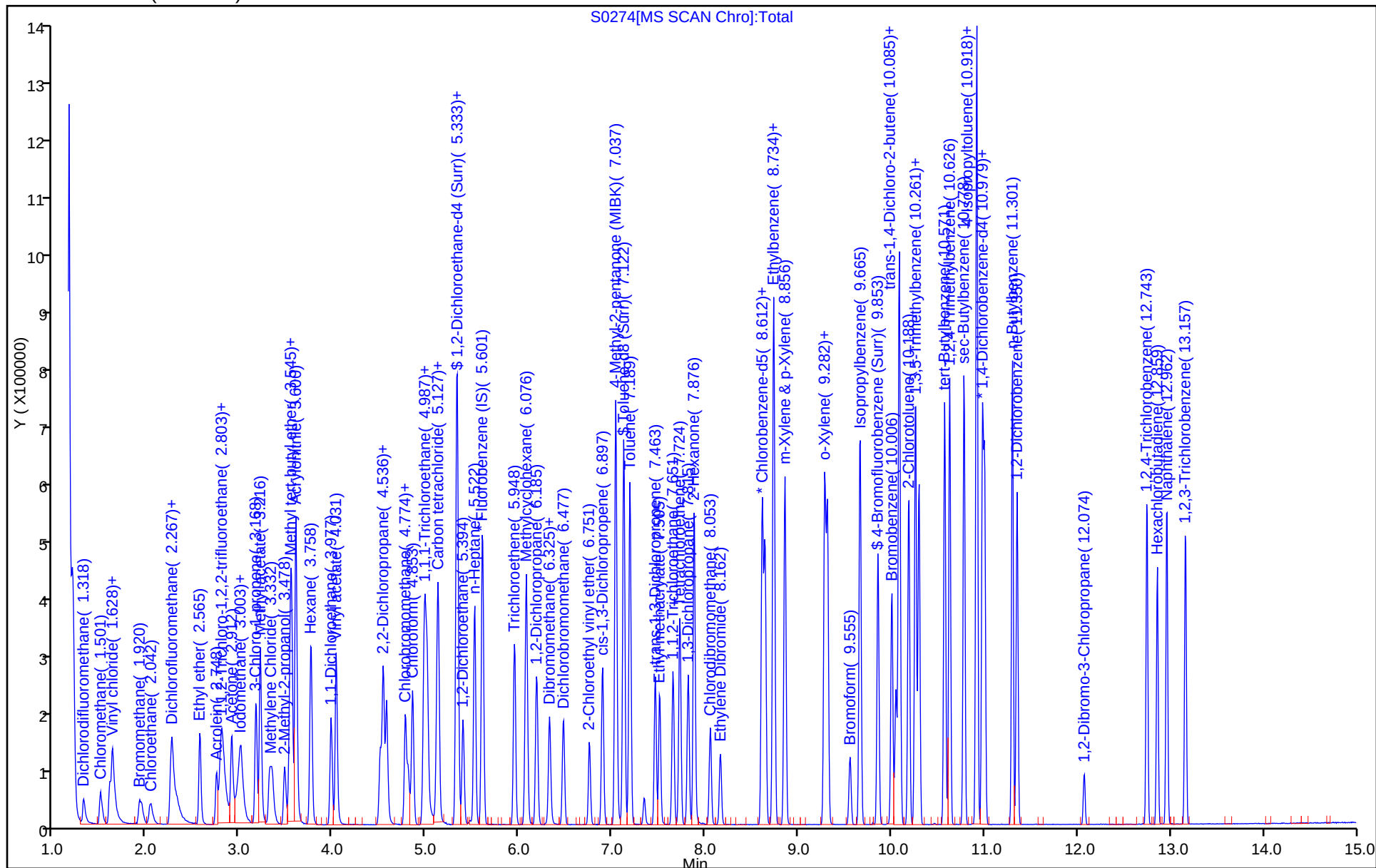
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: S-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.: 480-110191-1
SDG No.: _____
Lab Sample ID: CCV 480-334536/3 Calibration Date: 12/02/2016 20:13
Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
Lab File ID: S0275.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
Dibromofluoromethane (Surr)	Ave	1.197	1.198		25.0	25.0	0.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7637	0.7837		25.7	25.0	2.6	20.0
Toluene-d8 (Surr)	Ave	2.466	2.484		25.2	25.0	0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8273	0.7678		23.2	25.0	-7.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0275.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Dec-2016 20:13:30 ALS Bottle#: 30 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0058844-003
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:03:07 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: o'briens

Date: 02-Dec-2016 20:30:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	79083	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	159520	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	88	155412	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	94759	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	61977	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	396237	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	87	122479	25.0	23.2	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	73	73292	25.0	19.2	
148 Ethanol	45	2.565	2.565	0.000	96	42699	1000.0	1289.1	
19 Propene oxide	58	2.663	2.663	0.000	94	110307	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	95	59314	250.0	205.0	
29 Acetonitrile	40	3.222	3.222	0.000	100	57399	250.0	196.4	
36 Isopropyl ether	45	4.001	4.001	0.000	92	254360	25.0	23.1	
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	84	119539	25.0	22.2	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	66	75210	125.0	106.2	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	274404	25.0	23.7	
42 Ethyl acetate	43	4.615	4.615	0.000	99	161406	50.0	43.1	
46 Propionitrile	54	4.676	4.676	0.000	98	136571	250.0	218.5	
47 Methacrylonitrile	41	4.792	4.792	0.000	91	533821	250.0	219.1	
152 Isooctane	57	5.339	5.339	0.000	96	275719	25.0	26.1	
147 t-Amyl alcohol	59	5.394	5.394	0.000	49	83555	250.0	194.9	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	79	293881	25.0	22.8	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	93	252118	25.0	23.0	
60 n-Butanol	56	5.960	5.960	0.000	85	67562	625.0	503.8	
142 Ethyl acrylate	55	6.069	6.069	0.000	97	107693	25.0	21.2	
63 Methyl methacrylate	41	6.288	6.288	0.000	88	146482	50.0	41.7	
70 2-Nitropropane	43	6.726	6.726	0.000	96	39387	50.0	43.5	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	93595	250.0	216.3	
76 2-Methylthiophene	97	7.329	7.329	0.000	97	294274	25.0	25.2	
78 3-Methylthiophene	97	7.493	7.493	0.000	98	314634	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	95	122310	25.0	21.1	
146 1-Chlorohexane	55	8.588	8.588	0.000	95	73706	25.0	22.1	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	77	121854	25.0	23.7	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	89	113678	25.0	23.4	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	96	126534	25.0	23.5	
96 Cyclohexanone	55	9.823	9.823	0.000	87	30291	250.0	182.5	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	98862	25.0	24.5	
108 Pentachloroethane	167	10.626	10.626	0.000	84	57397	25.0	32.6	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	368246	25.0	23.6	
112 1,2,3-Trimethylbenzene	105	11.027	11.027	0.000	62	370134	25.0	25.3	
150 Benzyl chloride	126	11.143	11.143	0.000	97	37615	25.0	23.3	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	157863	25.0	24.5	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	89	184540	25.0	19.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00057	Amount Added: 12.50	Units: uL	
3MTP_WRK_00059	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161202-58844.b\\S0275.D

Injection Date: 02-Dec-2016 20:13:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

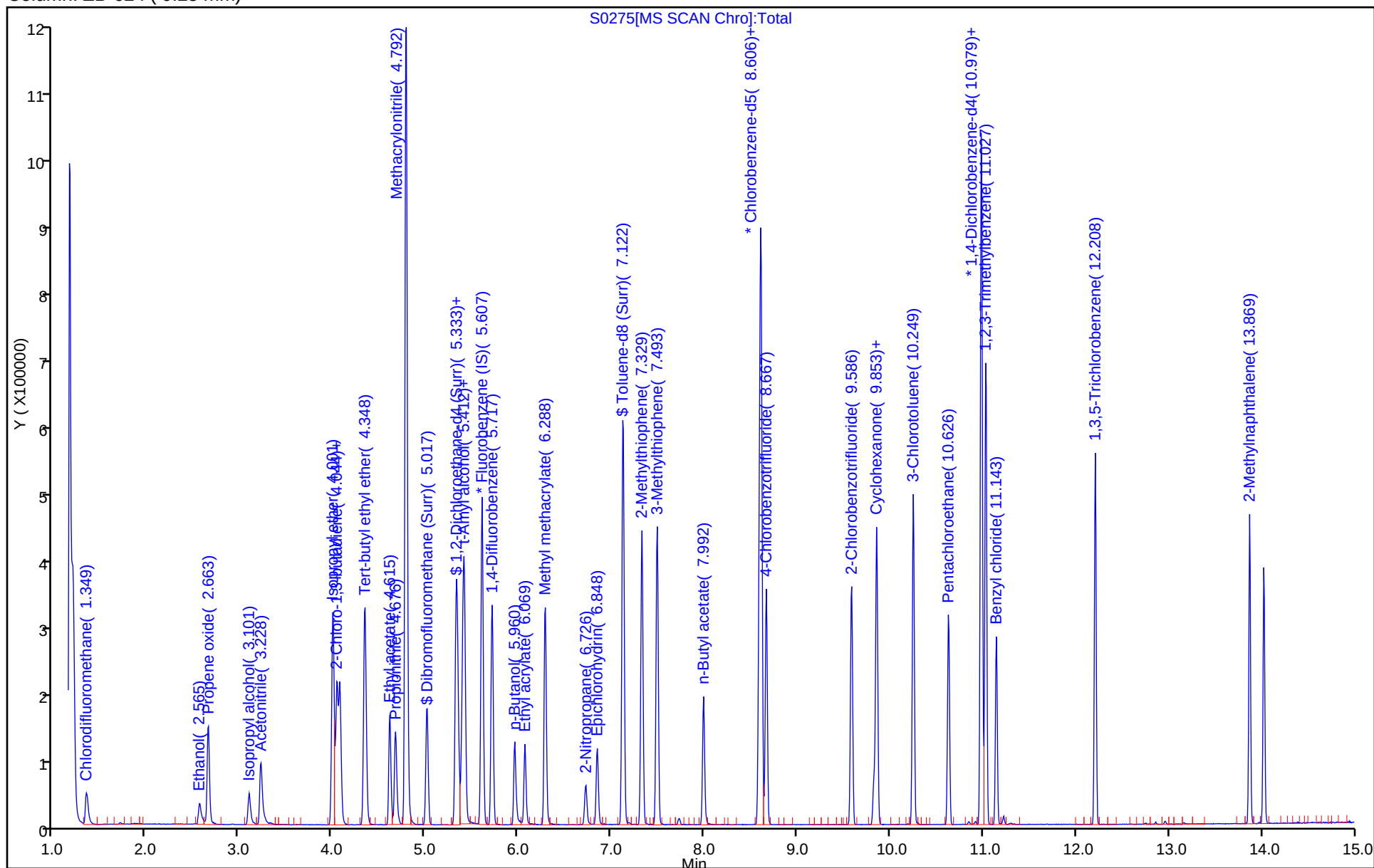
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: S-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.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCV 480-334536/3 Calibration Date: 12/02/2016 20:13
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 21:28
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 23:47
 Lab File ID: S0275.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
Chlorodifluoromethane	Ave	1.210	0.9268		19.2	25.0	-23.4*	20.0
Ethanol	Lin1		0.0135		1290	1000	28.9*	20.0
Isopropyl alcohol	Ave	0.0915	0.0750		205	250	-18.0	20.0
Acetonitrile	Ave	0.0924	0.0726		196	250	-21.4*	20.0
Isopropyl ether	Ave	3.482	3.216		23.1	25.0	-7.6	20.0
Chloroprene	Ave	1.704	1.512		22.2	25.0	-11.3	20.0
1,1-Dimethoxyethane	Ave	0.2239	0.1902		106	125	-15.1	20.0
Tert-butyl ethyl ether	Ave	3.655	3.470		23.7	25.0	-5.1	20.0
Ethyl acetate	Ave	1.183	1.020		43.1	50.0	-13.7	20.0
Propionitrile	Ave	0.1976	0.1727		219	250	-12.6	20.0
Methacrylonitrile	Ave	0.7702	0.6750		219	250	-12.4	20.0
Isooctane	Ave	3.345	3.486		26.1	25.0	4.2	20.0
t-Amyl alcohol	Ave	0.1355	0.1057		195	250	-22.0*	20.0
Tert-amyl methyl ether	Ave	4.076	3.716		22.8	25.0	-8.8	20.0
1,4-Difluorobenzene	Ave	3.460	3.188		23.0	25.0	-7.9	20.0
n-Butanol	Ave	0.0424	0.0342		504	625	-19.4	20.0
Ethyl acrylate	Ave	1.608	1.362		21.2	25.0	-15.3	20.0
Methyl methacrylate	Ave	1.110	0.9261		41.7	50.0	-16.6	20.0
2-Nitropropane	Ave	0.1456	0.1267		43.5	50.0	-13.0	20.0
Epichlorohydrin	Ave	0.1368	0.1184		216	250	-13.5	20.0
2-Methylthiophene	Ave	1.879	1.894		25.2	25.0	0.8	20.0
3-Methylthiophene	Ave	1.962	2.025		25.8	25.0	3.2	20.0
n-Butyl acetate	Ave	1.830	1.547	0.1000	21.1	25.0	-15.5	20.0
1-Chlorohexane	Lin1		0.4621		22.1	25.0	-11.7	20.0
3-Chlorobenzotrifluoride	Ave	0.8268	0.7841		23.7	25.0	-5.2	20.0
4-Chlorobenzotrifluoride	Ave	0.7814	0.7315		23.4	25.0	-6.4	20.0
2-Chlorobenzotrifluoride	Ave	0.8646	0.8142		23.5	25.0	-5.8	20.0
Cyclohexanone	Ave	0.0267	0.0195		183	250	-27.0*	20.0
3-Chlorotoluene	Ave	0.6488	0.6361		24.5	25.0	-2.0	20.0
Pentachloroethane	Ave	0.2828	0.3693		32.6	25.0	30.6*	20.0
Dicyclopentadiene	Ave	2.508	2.369		23.6	25.0	-5.5	20.0
1,2,3-Trimethylbenzene	Ave	2.350	2.382		25.3	25.0	1.3	20.0
Benzyl chloride	Ave	0.2535	0.2358		23.3	25.0	-7.0	20.0
1,3,5-Trichlorobenzene	Ave	1.034	1.016		24.5	25.0	-1.8	20.0
2-Methylnaphthalene	Ave	1.508	1.187		19.7	25.0	-21.3*	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0275.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Dec-2016 20:13:30 ALS Bottle#: 30 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0058844-003
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:03:07 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: o'briens

Date: 02-Dec-2016 20:30:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	79083	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	159520	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	88	155412	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	57	94759	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	61977	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	396237	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	87	122479	25.0	23.2	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	73	73292	25.0	19.2	
148 Ethanol	45	2.565	2.565	0.000	96	42699	1000.0	1289.1	
19 Propene oxide	58	2.663	2.663	0.000	94	110307	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	95	59314	250.0	205.0	
29 Acetonitrile	40	3.222	3.222	0.000	100	57399	250.0	196.4	
36 Isopropyl ether	45	4.001	4.001	0.000	92	254360	25.0	23.1	
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	84	119539	25.0	22.2	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	66	75210	125.0	106.2	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	274404	25.0	23.7	
42 Ethyl acetate	43	4.615	4.615	0.000	99	161406	50.0	43.1	
46 Propionitrile	54	4.676	4.676	0.000	98	136571	250.0	218.5	
47 Methacrylonitrile	41	4.792	4.792	0.000	91	533821	250.0	219.1	
152 Isooctane	57	5.339	5.339	0.000	96	275719	25.0	26.1	
147 t-Amyl alcohol	59	5.394	5.394	0.000	49	83555	250.0	194.9	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	79	293881	25.0	22.8	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	93	252118	25.0	23.0	
60 n-Butanol	56	5.960	5.960	0.000	85	67562	625.0	503.8	
142 Ethyl acrylate	55	6.069	6.069	0.000	97	107693	25.0	21.2	
63 Methyl methacrylate	41	6.288	6.288	0.000	88	146482	50.0	41.7	
70 2-Nitropropane	43	6.726	6.726	0.000	96	39387	50.0	43.5	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	93595	250.0	216.3	
76 2-Methylthiophene	97	7.329	7.329	0.000	97	294274	25.0	25.2	
78 3-Methylthiophene	97	7.493	7.493	0.000	98	314634	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	95	122310	25.0	21.1	
146 1-Chlorohexane	55	8.588	8.588	0.000	95	73706	25.0	22.1	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	77	121854	25.0	23.7	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	89	113678	25.0	23.4	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	96	126534	25.0	23.5	
96 Cyclohexanone	55	9.823	9.823	0.000	87	30291	250.0	182.5	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	98862	25.0	24.5	
108 Pentachloroethane	167	10.626	10.626	0.000	84	57397	25.0	32.6	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	368246	25.0	23.6	
112 1,2,3-Trimethylbenzene	105	11.027	11.027	0.000	62	370134	25.0	25.3	
150 Benzyl chloride	126	11.143	11.143	0.000	97	37615	25.0	23.3	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	157863	25.0	24.5	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	89	184540	25.0	19.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00057	Amount Added: 12.50	Units: uL	
3MTP_WRK_00059	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161202-58844.b\\S0275.D

Injection Date: 02-Dec-2016 20:13:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

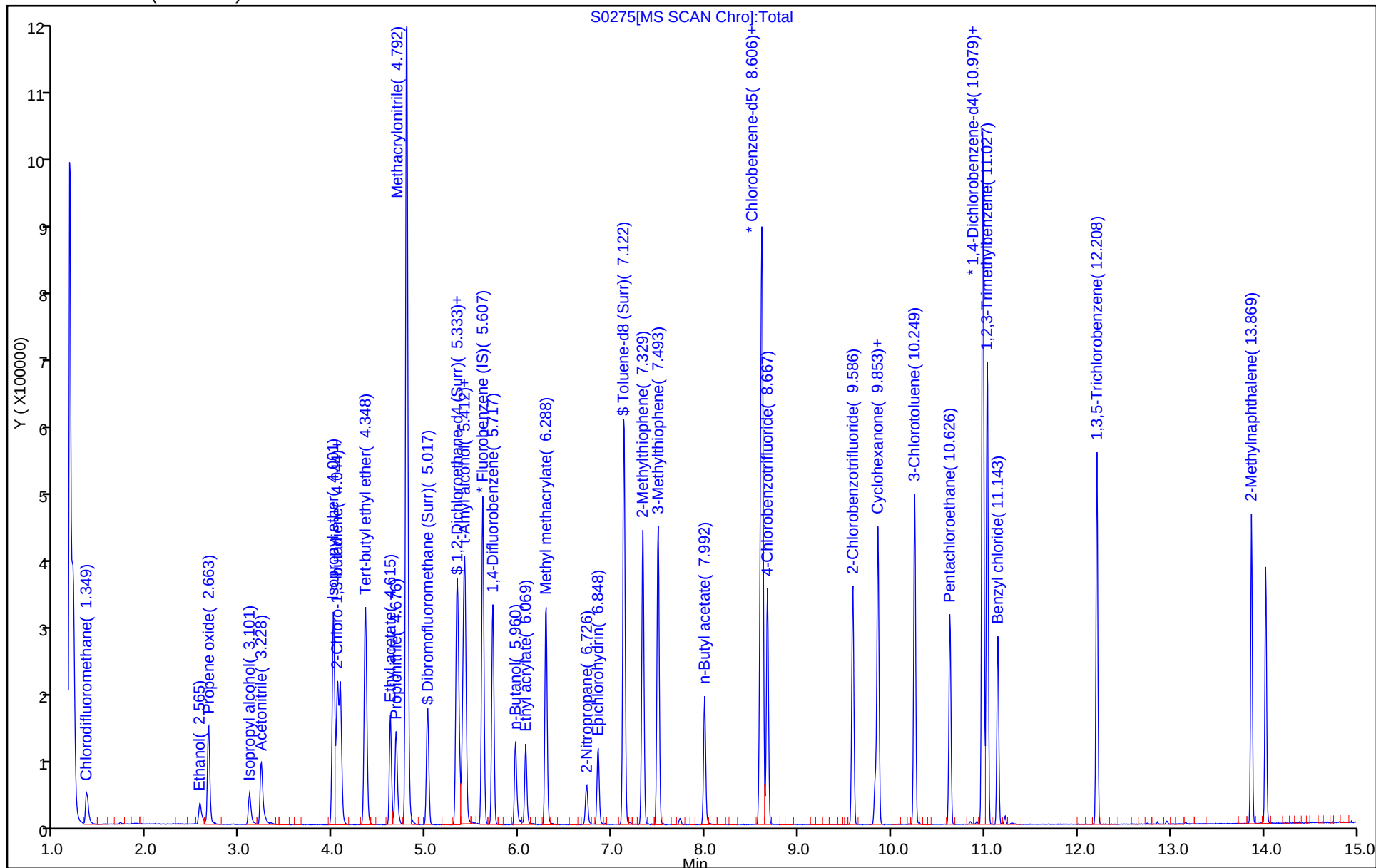
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: S-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.: 480-110191-1

SDG No.: _____

Lab Sample ID: CCVIS 480-334565/2 Calibration Date: 12/03/2016 09:31

Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33

Lab File ID: S0303.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	0.9657	0.3885	0.1000	10.1	25.0	-59.8*	50.0
Chloromethane	Ave	1.071	0.7202	0.1000	16.8	25.0	-32.7*	20.0
Vinyl chloride	Ave	0.999	0.8630	0.1000	21.6	25.0	-13.6	20.0
Butadiene	Lin1		0.8063		20.2	25.0	-19.3	20.0
Bromomethane	Ave	0.6112	0.3661	0.1000	15.0	25.0	-40.1	50.0
Chloroethane	Ave	0.6169	0.6072	0.1000	24.6	25.0	-1.6	50.0
Dichlorofluoromethane	Ave	1.770	1.742		24.6	25.0	-1.6	20.0
Trichlorofluoromethane	Lin1		1.265	0.1000	22.4	25.0	-10.3	20.0
Ethyl ether	Ave	0.9672	0.9658		25.0	25.0	-0.2	20.0
Acrolein	Ave	0.1982	0.1840		116	125	-7.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.020	0.1000	26.1	25.0	4.3	20.0
1,1-Dichloroethene	Ave	0.9649	1.009	0.1000	26.1	25.0	4.6	20.0
Acetone	Ave	0.4198	0.4369	0.1000	130	125	4.1	50.0
Iodomethane	Lin1		1.550		25.5	25.0	1.8	20.0
Carbon disulfide	Ave	3.213	2.979	0.1000	23.2	25.0	-7.3	20.0
Allyl chloride	Ave	1.493	1.608		26.9	25.0	7.7	20.0
Methyl acetate	Ave	0.9405	0.8255	0.1000	110	125	-12.2	50.0
Methylene Chloride	Lin1		1.123	0.1000	24.0	25.0	-4.1	20.0
2-Methyl-2-propanol	Ave	0.1604	0.1424		222	250	-11.3	50.0
Methyl tert-butyl ether	Ave	3.444	3.368	0.1000	24.5	25.0	-2.2	20.0
trans-1,2-Dichloroethene	Ave	1.062	1.121	0.1000	26.4	25.0	5.5	20.0
Acrylonitrile	Ave	0.4789	0.4633		242	250	-3.3	20.0
Hexane	Ave	1.711	1.813		26.5	25.0	6.0	20.0
1,1-Dichloroethane	Ave	1.931	1.986	0.2000	25.7	25.0	2.8	20.0
Vinyl acetate	Ave	2.317	2.303		49.7	50.0	-0.6	20.0
2,2-Dichloropropane	Ave	0.8606	0.9564		27.8	25.0	11.1	20.0
cis-1,2-Dichloroethene	Ave	1.187	1.283	0.1000	27.0	25.0	8.1	20.0
2-Butanone (MEK)	Ave	0.5972	0.5688	0.1000	119	125	-4.8	20.0
Chlorobromomethane	Ave	0.6050	0.6313		26.1	25.0	4.4	20.0
Tetrahydrofuran	Ave	0.4115	0.3434		41.7	50.0	-16.6	20.0
Chloroform	Ave	1.866	1.926	0.2000	25.8	25.0	3.2	20.0
1,1,1-Trichloroethane	Ave	1.294	1.380	0.1000	26.7	25.0	6.7	20.0
Cyclohexane	Ave	1.825	1.942	0.1000	26.6	25.0	6.4	20.0
Carbon tetrachloride	Ave	1.250	1.432	0.1000	28.6	25.0	14.6	20.0
1,1-Dichloropropene	Ave	1.436	1.541		26.8	25.0	7.3	20.0
Benzene	Ave	4.430	4.613	0.5000	26.0	25.0	4.1	20.0
Isobutyl alcohol	Ave	0.0609	0.0597		613	625	-2.0	50.0
1,2-Dichloroethane	Ave	1.649	1.615	0.1000	24.5	25.0	-2.0	20.0
n-Heptane	Ave	1.769	1.635		23.1	25.0	-7.6	20.0
Trichloroethene	Ave	1.120	1.148	0.2000	25.6	25.0	2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334565/2 Calibration Date: 12/03/2016 09:31
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
 Lab File ID: S0303.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	1.850	2.020	0.1000	27.3	25.0	9.2	20.0
1,2-Dichloropropane	Ave	1.096	1.124	0.1000	25.7	25.0	2.6	20.0
Dibromomethane	Ave	0.6631	0.6926	0.1000	26.1	25.0	4.5	20.0
1,4-Dioxane	Ave	0.0075	0.0070		465	500	-7.0	50.0
Bromodichloromethane	Ave	1.341	1.369	0.2000	25.5	25.0	2.1	20.0
2-Chloroethyl vinyl ether	Ave	0.7178	0.6734		23.5	25.0	-6.2	20.0
cis-1,3-Dichloropropene	Ave	1.718	1.786	0.2000	26.0	25.0	3.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5823	0.5266	0.1000	113	125	-9.6	20.0
Toluene	Ave	1.427	1.476	0.4000	25.9	25.0	3.5	20.0
trans-1,3-Dichloropropene	Ave	0.7583	0.8110	0.1000	26.7	25.0	6.9	20.0
Ethyl methacrylate	Ave	0.6574	0.6557		24.9	25.0	-0.3	20.0
1,1,2-Trichloroethane	Ave	0.3874	0.3967	0.1000	25.6	25.0	2.4	20.0
Tetrachloroethene	Ave	0.6354	0.6691	0.2000	26.3	25.0	5.3	20.0
1,3-Dichloropropane	Ave	0.8574	0.8699		25.4	25.0	1.5	20.0
2-Hexanone	Ave	0.4318	0.3858	0.1000	112	125	-10.7	20.0
Dibromochloromethane	Ave	0.5067	0.5370	0.1000	26.5	25.0	6.0	20.0
1,2-Dibromoethane	Ave	0.4986	0.5031		25.2	25.0	0.9	20.0
Chlorobenzene	Ave	1.591	1.622	0.5000	25.5	25.0	1.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5080	0.5603		27.6	25.0	10.3	20.0
Ethylbenzene	Ave	2.618	2.626	0.1000	25.1	25.0	0.3	20.0
m,p-Xylene	Ave	1.067	1.059	0.1000	24.8	25.0	-0.7	20.0
o-Xylene	Ave	1.050	1.038	0.3000	24.7	25.0	-1.1	20.0
Styrene	Ave	1.690	1.720	0.3000	25.4	25.0	1.7	20.0
Bromoform	Ave	0.3075	0.3358	0.1000	27.3	25.0	9.2	50.0
Isopropylbenzene	Ave	2.578	2.733	0.1000	26.5	25.0	6.0	20.0
Bromobenzene	Ave	0.6923	0.6907		24.9	25.0	-0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6103	0.6400	0.3000	26.2	25.0	4.9	20.0
1,2,3-Trichloropropane	Ave	0.2154	0.2144		24.9	25.0	-0.5	20.0
N-Propylbenzene	Ave	2.982	3.163		26.5	25.0	6.0	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1845		24.2	25.0	-3.2	50.0
2-Chlorotoluene	Ave	0.6349	0.6508		25.6	25.0	2.5	20.0
1,3,5-Trimethylbenzene	Ave	2.203	2.354		26.7	25.0	6.9	20.0
4-Chlorotoluene	Ave	0.6613	0.6760		25.6	25.0	2.2	20.0
tert-Butylbenzene	Ave	0.5120	0.5543		27.1	25.0	8.3	20.0
1,2,4-Trimethylbenzene	Ave	2.275	2.414		26.5	25.0	6.1	20.0
sec-Butylbenzene	Ave	2.819	3.029		26.9	25.0	7.4	20.0
1,3-Dichlorobenzene	Ave	1.308	1.383	0.6000	26.4	25.0	5.7	20.0
4-Isopropyltoluene	Ave	2.478	2.657		26.8	25.0	7.2	20.0
1,4-Dichlorobenzene	Ave	1.357	1.380	0.5000	25.4	25.0	1.7	20.0
n-Butylbenzene	Ave	2.109	2.322		27.5	25.0	10.1	20.0
1,2-Dichlorobenzene	Ave	1.285	1.330	0.4000	25.9	25.0	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334565/2 Calibration Date: 12/03/2016 09:31
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
 Lab File ID: S0303.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	0.1146	0.1199	0.0500	26.2	25.0	4.6	50.0
1,2,4-Trichlorobenzene	Ave	0.9653	0.9570	0.2000	24.8	25.0	-0.9	20.0
Hexachlorobutadiene	Ave	0.4614	0.4671		25.3	25.0	1.2	20.0
Naphthalene	Ave	2.414	2.274		23.6	25.0	-5.8	20.0
1,2,3-Trichlorobenzene	Ave	0.9019	0.8573		23.8	25.0	-4.9	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.252		26.2	25.0	4.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7637	0.7686		25.2	25.0	0.6	20.0
Toluene-d8 (Surr)	Ave	2.466	2.555		25.9	25.0	3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8273	0.7754		23.4	25.0	-6.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0303.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 03-Dec-2016 09:31:30 ALS Bottle#: 58 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0058850-002
 Operator ID: GTG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:59:44 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:58:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.601	5.601	0.000	98	81878	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	163511	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	54	163547	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	81	102541	25.0	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.321	5.321	0.000	0	62930	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	417753	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	126783	25.0	23.4	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	76	31812	25.0	10.1	M
12 Chloromethane	50	1.501	1.501	0.000	85	58967	25.0	16.8	
13 Vinyl chloride	62	1.604	1.604	0.000	78	70661	25.0	21.6	
151 Butadiene	54	1.628	1.628	0.000	90	66015	25.0	20.2	
14 Bromomethane	94	1.920	1.920	0.000	88	29973	25.0	15.0	
15 Chloroethane	64	2.024	2.024	0.000	88	49720	25.0	24.6	
16 Dichlorofluoromethane	67	2.261	2.261	0.000	80	142596	25.0	24.6	
17 Trichlorofluoromethane	101	2.267	2.267	0.000	53	103571	25.0	22.4	
18 Ethyl ether	59	2.571	2.571	0.000	92	79074	25.0	25.0	
20 Acrolein	56	2.748	2.748	0.000	90	75326	125.0	116.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.797	2.797	0.000	60	83496	25.0	26.1	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	93	82617	25.0	26.1	
23 Acetone	43	2.912	2.912	0.000	100	178858	125.0	130.1	
25 Iodomethane	142	2.979	2.979	0.000	96	126919	25.0	25.5	
26 Carbon disulfide	76	3.009	3.009	0.000	98	243937	25.0	23.2	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	89	131651	25.0	26.9	
27 Methyl acetate	43	3.222	3.222	0.000	94	337969	125.0	109.7	
30 Methylene Chloride	84	3.338	3.338	0.000	83	91916	25.0	24.0	
31 2-Methyl-2-propanol	59	3.490	3.490	0.000	98	116562	250.0	221.8	
32 Methyl tert-butyl ether	73	3.539	3.539	0.000	84	275782	25.0	24.5	
34 trans-1,2-Dichloroethene	96	3.551	3.551	0.000	72	91761	25.0	26.4	
33 Acrylonitrile	53	3.600	3.600	0.000	100	379296	250.0	241.8	
35 Hexane	57	3.764	3.764	0.000	89	148440	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.977	3.977	0.000	94	162570	25.0	25.7	
37 Vinyl acetate	43	4.031	4.031	0.000	96	377060	50.0	49.7	
44 2,2-Dichloropropane	77	4.506	4.506	0.000	88	78311	25.0	27.8	
45 cis-1,2-Dichloroethene	96	4.542	4.542	0.000	67	105072	25.0	27.0	
43 2-Butanone (MEK)	43	4.579	4.579	0.000	98	232866	125.0	119.1	
48 Chlorobromomethane	128	4.780	4.780	0.000	88	51693	25.0	26.1	
49 Tetrahydrofuran	42	4.810	4.810	0.000	85	56225	50.0	41.7	
50 Chloroform	83	4.853	4.853	0.000	69	157732	25.0	25.8	
51 1,1,1-Trichloroethane	97	4.981	4.981	0.000	91	113015	25.0	26.7	
52 Cyclohexane	56	4.987	4.987	0.000	89	158971	25.0	26.6	
55 Carbon tetrachloride	117	5.120	5.120	0.000	79	117252	25.0	28.6	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	95	126196	25.0	26.8	
53 Isobutyl alcohol	43	5.333	5.333	0.000	54	122178	625.0	612.6	
57 Benzene	78	5.333	5.333	0.000	96	377684	25.0	26.0	
58 1,2-Dichloroethane	62	5.394	5.394	0.000	72	132263	25.0	24.5	
59 n-Heptane	43	5.522	5.522	0.000	91	133885	25.0	23.1	
62 Trichloroethene	95	5.948	5.948	0.000	93	93980	25.0	25.6	
64 Methylcyclohexane	83	6.076	6.076	0.000	89	165407	25.0	27.3	
65 1,2-Dichloropropane	63	6.185	6.185	0.000	92	92066	25.0	25.7	
67 Dibromomethane	93	6.325	6.325	0.000	90	56709	25.0	26.1	
66 1,4-Dioxane	88	6.331	6.331	0.000	39	22869	500.0	464.8	
68 Dichlorobromomethane	83	6.477	6.477	0.000	98	112082	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.751	6.751	0.000	89	55138	25.0	23.5	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	89	146201	25.0	26.0	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	95	430514	125.0	113.0	
74 Toluene	92	7.189	7.189	0.000	94	241414	25.0	25.9	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	89	132608	25.0	26.7	
75 Ethyl methacrylate	69	7.511	7.511	0.000	68	107209	25.0	24.9	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	87	64856	25.0	25.6	
81 Tetrachloroethene	166	7.724	7.724	0.000	91	109410	25.0	26.3	
82 1,3-Dichloropropane	76	7.815	7.815	0.000	89	142237	25.0	25.4	
80 2-Hexanone	43	7.876	7.876	0.000	77	315436	125.0	111.7	
83 Chlorodibromomethane	129	8.053	8.053	0.000	87	87797	25.0	26.5	
84 Ethylene Dibromide	107	8.162	8.162	0.000	98	82266	25.0	25.2	
87 Chlorobenzene	112	8.643	8.643	0.000	95	265161	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	8.734	8.734	0.000	39	91615	25.0	27.6	
88 Ethylbenzene	91	8.734	8.734	0.000	98	429300	25.0	25.1	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	173179	25.0	24.8	
91 o-Xylene	106	9.282	9.282	0.000	97	169680	25.0	24.7	
92 Styrene	104	9.312	9.312	0.000	93	281237	25.0	25.4	
95 Bromoform	173	9.555	9.555	0.000	96	54904	25.0	27.3	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	446937	25.0	26.5	
101 Bromobenzene	156	10.006	10.006	0.000	90	112963	25.0	24.9	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	79	104676	25.0	26.2	
100 1,2,3-Trichloropropane	110	10.079	10.079	0.000	41	35065	25.0	24.9	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	517274	25.0	26.5	
98 trans-1,4-Dichloro-2-buten	53	10.091	10.091	0.000	36	30169	25.0	24.2	
103 2-Chlorotoluene	126	10.188	10.188	0.000	97	106428	25.0	25.6	
102 1,3,5-Trimethylbenzene	105	10.255	10.255	0.000	92	384991	25.0	26.7	
105 4-Chlorotoluene	126	10.298	10.298	0.000	95	110559	25.0	25.6	
106 tert-Butylbenzene	134	10.571	10.571	0.000	91	90653	25.0	27.1	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	29	394838	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	93	495393	25.0	26.9	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	68	226140	25.0	26.4	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	97	434505	25.0	26.8	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	225673	25.0	25.4	
115 n-Butylbenzene	91	11.301	11.301	0.000	95	379675	25.0	27.5	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	94	217555	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	62	19605	25.0	26.2	
119 1,2,4-Trichlorobenzene	180	12.743	12.743	0.000	94	156507	25.0	24.8	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	91	76399	25.0	25.3	
121 Naphthalene	128	12.962	12.962	0.000	96	371919	25.0	23.6	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	94	140208	25.0	23.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00193	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161203-58850.b\\S0303.D

Injection Date: 03-Dec-2016 09:31:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

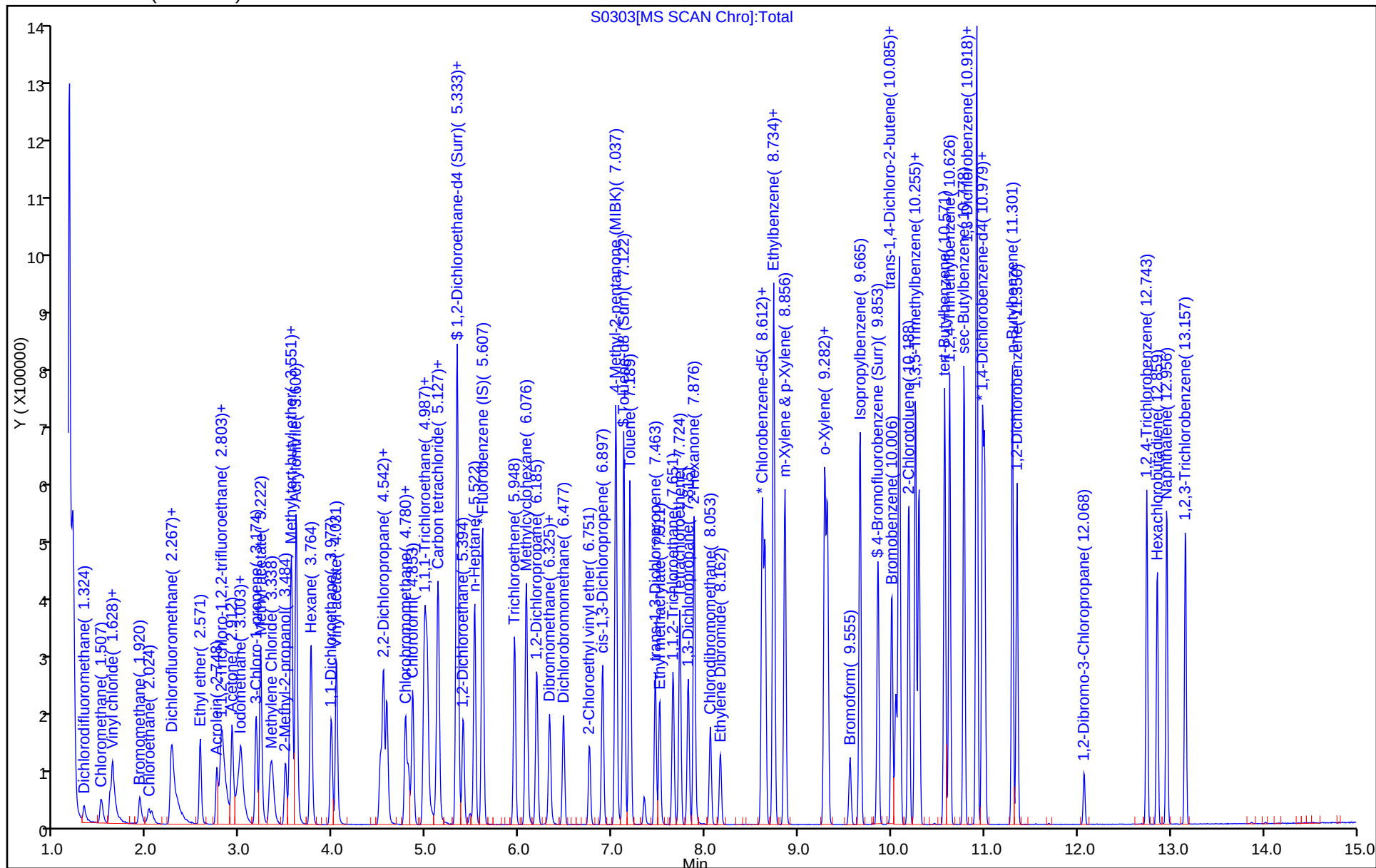
Dil. Factor: 1.0000

ALS Bottle#: 58

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0303.D

Injection Date: 03-Dec-2016 09:31:30

Instrument ID: HP5973S

Lims ID: CCVIS

Client ID:

Operator ID: GTG

ALS Bottle#:

58

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

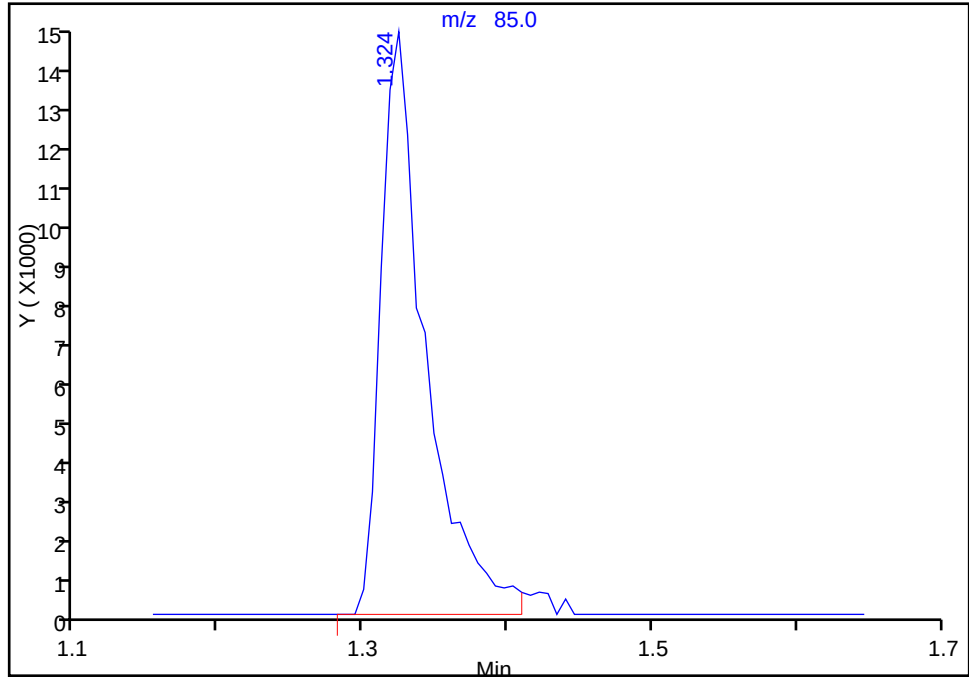
Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

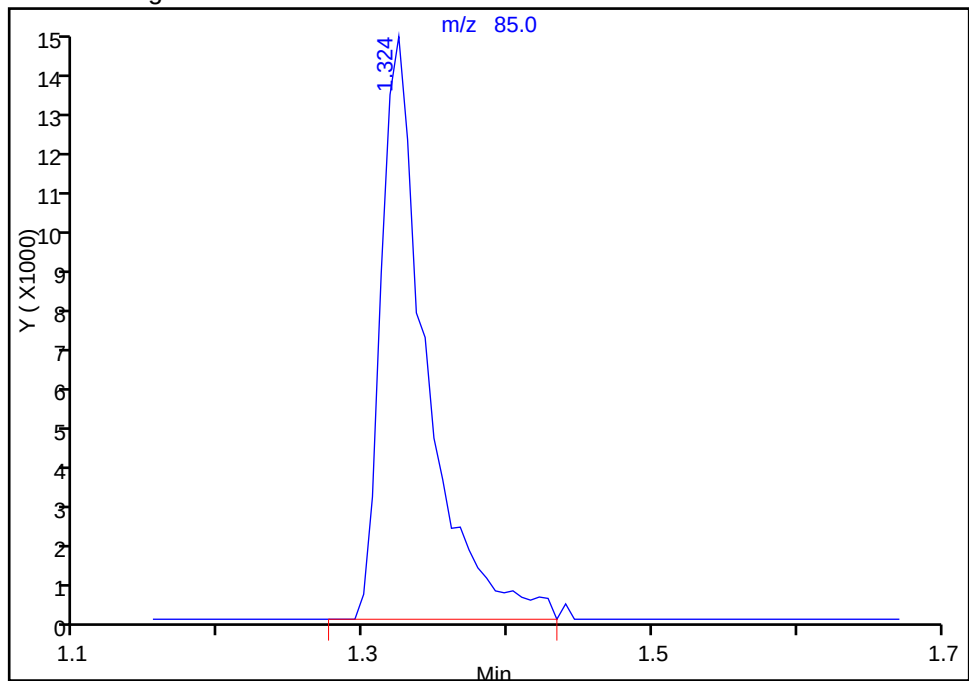
RT: 1.32
Area: 31248
Amount: 9.880023
Amount Units: ug/L

Processing Integration Results



RT: 1.32
Area: 31812
Amount: 10.058349
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 09:58:17

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCV 480-334565/3 Calibration Date: 12/03/2016 09:54
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 16:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 19:33
 Lab File ID: S0304.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
Dibromofluoromethane (Surr)	Ave	1.197	1.197		25.0	25.0	-0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7637	0.8169		26.7	25.0	7.0	20.0
Toluene-d8 (Surr)	Ave	2.466	2.416		24.5	25.0	-2.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8273	0.7584		22.9	25.0	-8.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0304.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Dec-2016 09:54:30 ALS Bottle#: 59 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0058850-003
 Operator ID: GTG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 10:25:40 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 10:25:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77465	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	162848	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	82	158649	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.017	0.000	65	92713	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	63281	25.0	26.7	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	393388	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	123503	25.0	22.9	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	74	84354	25.0	22.5	
148 Ethanol	45	2.571	2.571	0.000	98	44919	1000.0	1386.5	
19 Propene oxide	58	2.663	2.663	0.000	94	112526	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	96	73769	250.0	260.3	
29 Acetonitrile	40	3.228	3.228	0.000	99	64131	250.0	224.0	
36 Isopropyl ether	45	4.001	4.001	0.000	93	266929	25.0	24.7	
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	84	138107	25.0	26.2	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	89	80787	125.0	116.4	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	283399	25.0	25.0	
42 Ethyl acetate	43	4.615	4.615	0.000	98	169409	50.0	46.2	
46 Propionitrile	54	4.676	4.676	0.000	99	146654	250.0	239.5	
47 Methacrylonitrile	41	4.786	4.786	0.000	92	568110	250.0	238.0	
152 Isooctane	57	5.339	5.339	0.000	95	329539	25.0	31.8	
147 t-Amyl alcohol	59	5.394	5.394	0.000	48	95815	250.0	228.2	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	80	312331	25.0	24.7	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	277101	25.0	25.8	
60 n-Butanol	56	5.960	5.960	0.000	87	85124	625.0	648.0	
142 Ethyl acrylate	55	6.069	6.069	0.000	97	112520	25.0	22.6	
63 Methyl methacrylate	41	6.288	6.288	0.000	88	153261	50.0	44.6	
70 2-Nitropropane	43	6.720	6.720	0.000	98	40231	50.0	43.5	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	101987	250.0	240.6	
76 2-Methylthiophene	97	7.329	7.329	0.000	96	318778	25.0	26.7	
78 3-Methylthiophene	97	7.493	7.493	0.000	97	318936	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	97	127282	25.0	22.4	
146 1-Chlorohexane	55	8.588	8.588	0.000	97	86632	25.0	25.6	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	81	142432	25.0	27.1	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	92	133884	25.0	27.0	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	97	146034	25.0	26.6	
96 Cyclohexanone	55	9.823	9.823	0.000	89	37210	250.0	219.6	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	107172	25.0	26.0	
108 Pentachloroethane	167	10.626	10.626	0.000	87	62185	25.0	34.6	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	423266	25.0	26.6	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	61	400134	25.0	26.8	
150 Benzyl chloride	126	11.143	11.143	0.000	98	39702	25.0	24.0	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	173923	25.0	26.5	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	90	211430	25.0	22.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00057	Amount Added: 12.50	Units: uL	
3MTP_WRK_00059	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0304.D

Injection Date: 03-Dec-2016 09:54:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

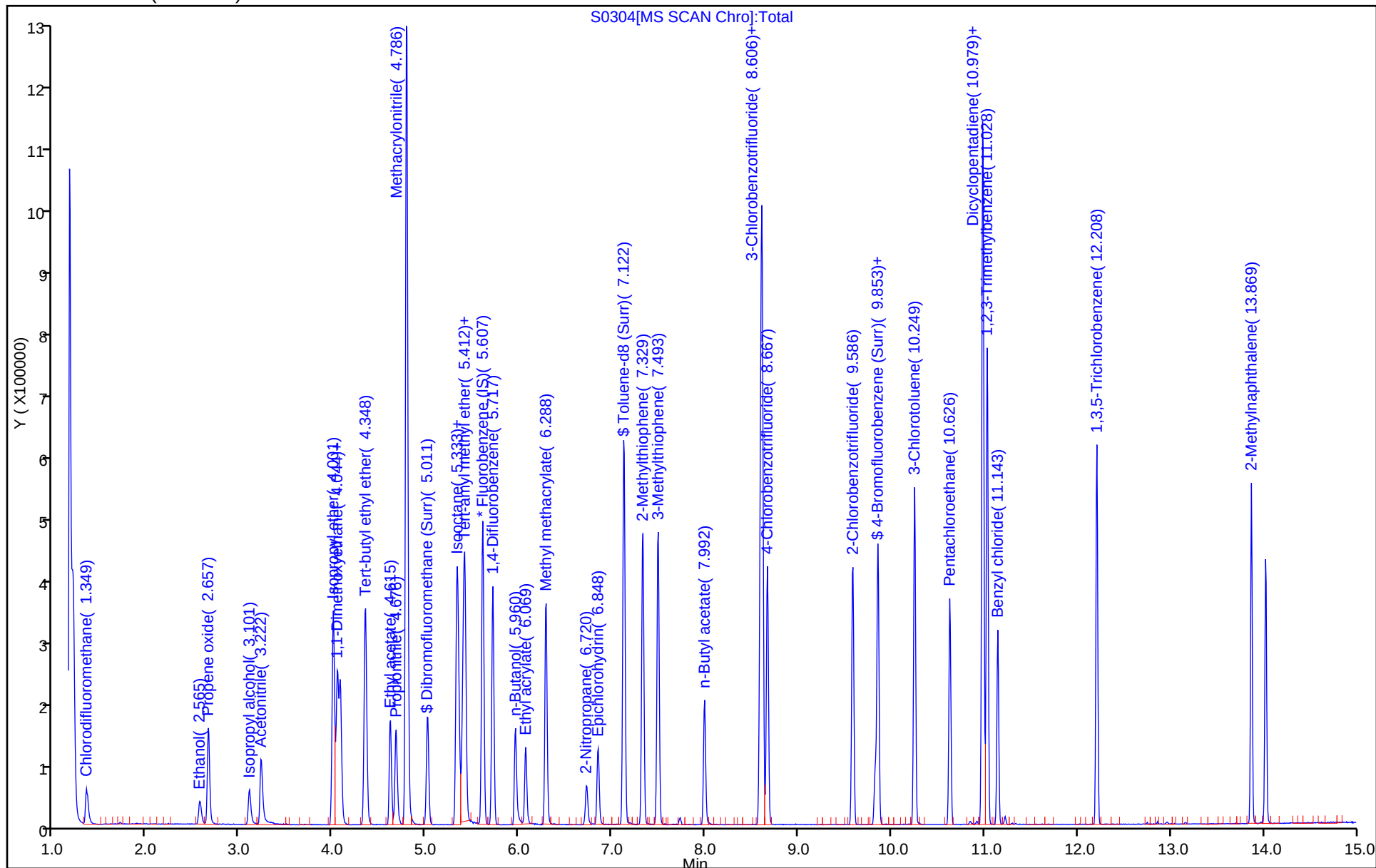
Dil. Factor: 1.0000

ALS Bottle#: 59

Method: S-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.: 480-110191-1
 SDG No.: _____
 Lab Sample ID: CCV 480-334565/3 Calibration Date: 12/03/2016 09:54
 Instrument ID: HP5973S Calib Start Date: 11/09/2016 21:28
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 11/09/2016 23:47
 Lab File ID: S0304.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
Chlorodifluoromethane	Ave	1.210	1.089		22.5	25.0	-10.0	20.0
Ethanol	Lin1		0.0145		1390	1000	38.7*	20.0
Isopropyl alcohol	Ave	0.0915	0.0952		260	250	4.1	20.0
Acetonitrile	Ave	0.0924	0.0828		224	250	-10.4	20.0
Isopropyl ether	Ave	3.482	3.446		24.7	25.0	-1.0	20.0
Chloroprene	Ave	1.704	1.783		26.2	25.0	4.7	20.0
1,1-Dimethoxyethane	Ave	0.2239	0.2086		116	125	-6.8	20.0
Tert-butyl ethyl ether	Ave	3.655	3.658		25.0	25.0	0.0	20.0
Ethyl acetate	Ave	1.183	1.093		46.2	50.0	-7.6	20.0
Propionitrile	Ave	0.1976	0.1893		240	250	-4.2	20.0
Methacrylonitrile	Ave	0.7702	0.7334		238	250	-4.8	20.0
Isooctane	Ave	3.345	4.254		31.8	25.0	27.2*	20.0
t-Amyl alcohol	Ave	0.1355	0.1237		228	250	-8.7	20.0
Tert-amyl methyl ether	Ave	4.076	4.032		24.7	25.0	-1.1	20.0
1,4-Difluorobenzene	Ave	3.460	3.577		25.8	25.0	3.4	20.0
n-Butanol	Ave	0.0424	0.0440		648	625	3.7	20.0
Ethyl acrylate	Ave	1.608	1.453		22.6	25.0	-9.7	20.0
Methyl methacrylate	Ave	1.110	0.9892		44.6	50.0	-10.9	20.0
2-Nitropropane	Ave	0.1456	0.1268		43.5	50.0	-12.9	20.0
Epichlorohydrin	Ave	0.1368	0.1317		241	250	-3.7	20.0
2-Methylthiophene	Ave	1.879	2.009		26.7	25.0	6.9	20.0
3-Methylthiophene	Ave	1.962	2.010		25.6	25.0	2.5	20.0
n-Butyl acetate	Ave	1.830	1.643	0.1000	22.4	25.0	-10.2	20.0
1-Chlorohexane	Lin1		0.5320		25.6	25.0	2.3	20.0
3-Chlorobenzotrifluoride	Ave	0.8268	0.8978		27.1	25.0	8.6	20.0
4-Chlorobenzotrifluoride	Ave	0.7814	0.8439		27.0	25.0	8.0	20.0
2-Chlorobenzotrifluoride	Ave	0.8646	0.9205		26.6	25.0	6.5	20.0
Cyclohexanone	Ave	0.0267	0.0235		220	250	-12.1	20.0
3-Chlorotoluene	Ave	0.6488	0.6755		26.0	25.0	4.1	20.0
Pentachloroethane	Ave	0.2828	0.3920		34.6	25.0	38.6*	20.0
Dicyclopentadiene	Ave	2.508	2.668		26.6	25.0	6.4	20.0
1,2,3-Trimethylbenzene	Ave	2.350	2.522		26.8	25.0	7.3	20.0
Benzyl chloride	Ave	0.2535	0.2438		24.0	25.0	-3.8	20.0
1,3,5-Trichlorobenzene	Ave	1.034	1.096		26.5	25.0	6.0	20.0
2-Methylnaphthalene	Ave	1.508	1.333		22.1	25.0	-11.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0304.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Dec-2016 09:54:30 ALS Bottle#: 59 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0058850-003
 Operator ID: GTG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 10:25:40 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 10:25:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77465	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	162848	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	82	158649	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.017	0.000	65	92713	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	63281	25.0	26.7	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	393388	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	123503	25.0	22.9	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	74	84354	25.0	22.5	
148 Ethanol	45	2.571	2.571	0.000	98	44919	1000.0	1386.5	
19 Propene oxide	58	2.663	2.663	0.000	94	112526	NC	NC	
24 Isopropyl alcohol	45	3.101	3.101	0.000	96	73769	250.0	260.3	
29 Acetonitrile	40	3.228	3.228	0.000	99	64131	250.0	224.0	
36 Isopropyl ether	45	4.001	4.001	0.000	93	266929	25.0	24.7	
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	84	138107	25.0	26.2	
38 1,1-Dimethoxyethane	75	4.080	4.080	0.000	89	80787	125.0	116.4	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	283399	25.0	25.0	
42 Ethyl acetate	43	4.615	4.615	0.000	98	169409	50.0	46.2	
46 Propionitrile	54	4.676	4.676	0.000	99	146654	250.0	239.5	
47 Methacrylonitrile	41	4.786	4.786	0.000	92	568110	250.0	238.0	
152 Isooctane	57	5.339	5.339	0.000	95	329539	25.0	31.8	
147 t-Amyl alcohol	59	5.394	5.394	0.000	48	95815	250.0	228.2	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	80	312331	25.0	24.7	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	277101	25.0	25.8	
60 n-Butanol	56	5.960	5.960	0.000	87	85124	625.0	648.0	
142 Ethyl acrylate	55	6.069	6.069	0.000	97	112520	25.0	22.6	
63 Methyl methacrylate	41	6.288	6.288	0.000	88	153261	50.0	44.6	
70 2-Nitropropane	43	6.720	6.720	0.000	98	40231	50.0	43.5	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	101987	250.0	240.6	
76 2-Methylthiophene	97	7.329	7.329	0.000	96	318778	25.0	26.7	
78 3-Methylthiophene	97	7.493	7.493	0.000	97	318936	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	97	127282	25.0	22.4	
146 1-Chlorohexane	55	8.588	8.588	0.000	97	86632	25.0	25.6	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	81	142432	25.0	27.1	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	92	133884	25.0	27.0	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	97	146034	25.0	26.6	
96 Cyclohexanone	55	9.823	9.823	0.000	89	37210	250.0	219.6	
104 3-Chlorotoluene	126	10.249	10.249	0.000	96	107172	25.0	26.0	
108 Pentachloroethane	167	10.626	10.626	0.000	87	62185	25.0	34.6	
114 Dicyclopentadiene	66	10.985	10.985	0.000	95	423266	25.0	26.6	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	61	400134	25.0	26.8	
150 Benzyl chloride	126	11.143	11.143	0.000	98	39702	25.0	24.0	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	173923	25.0	26.5	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	90	211430	25.0	22.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00057	Amount Added: 12.50	Units: uL	
3MTP_WRK_00059	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0304.D

Injection Date: 03-Dec-2016 09:54:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

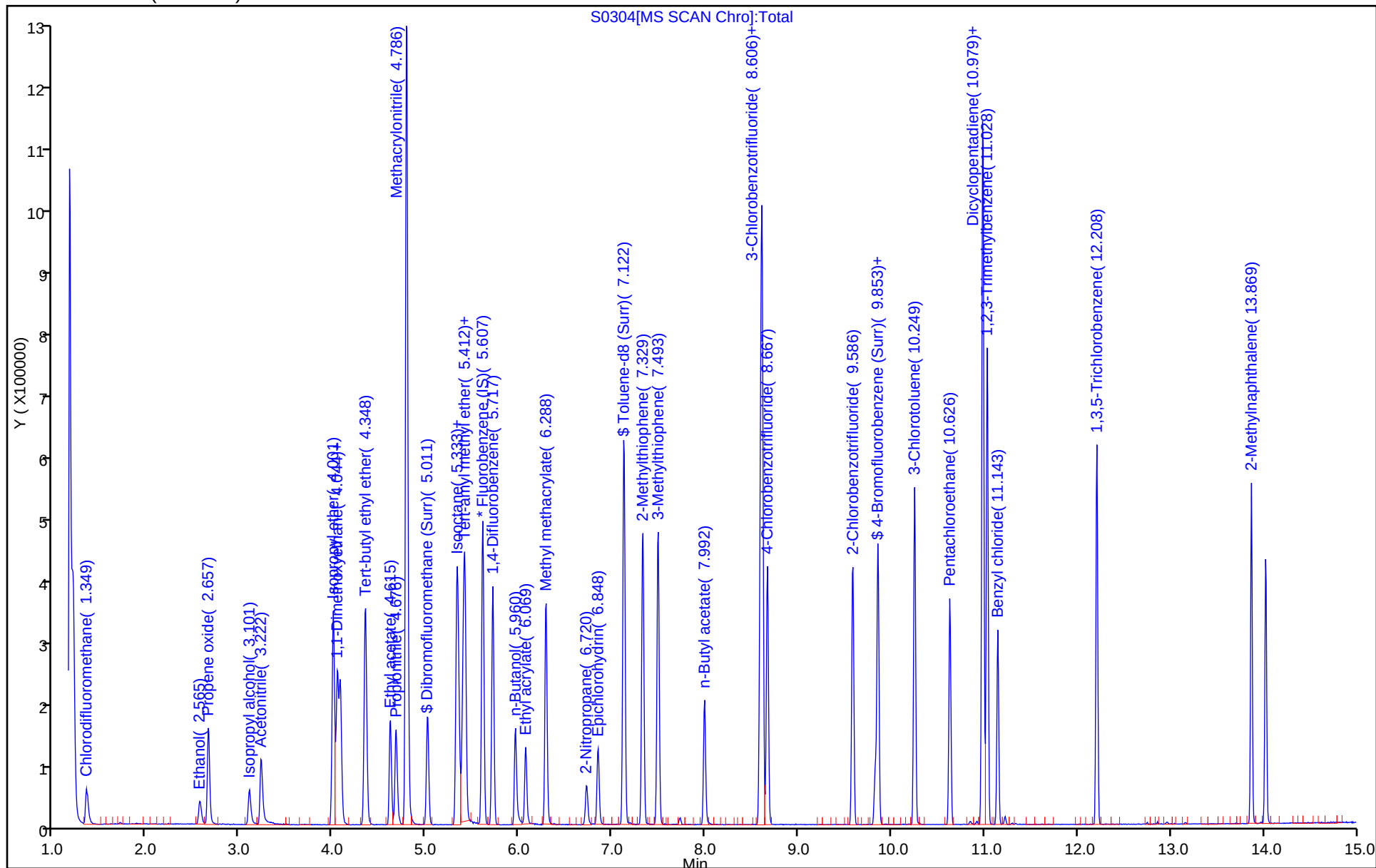
Dil. Factor: 1.0000

ALS Bottle#: 59

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9062.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Nov-2016 15:56:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0058150-002
Operator ID: JG Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Nov-2016 11:16:26 Calib Date: 09-Nov-2016 23:47:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: gentilej

Date: 09-Nov-2016 16:10:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.924	3.924	0.000	0	147407	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

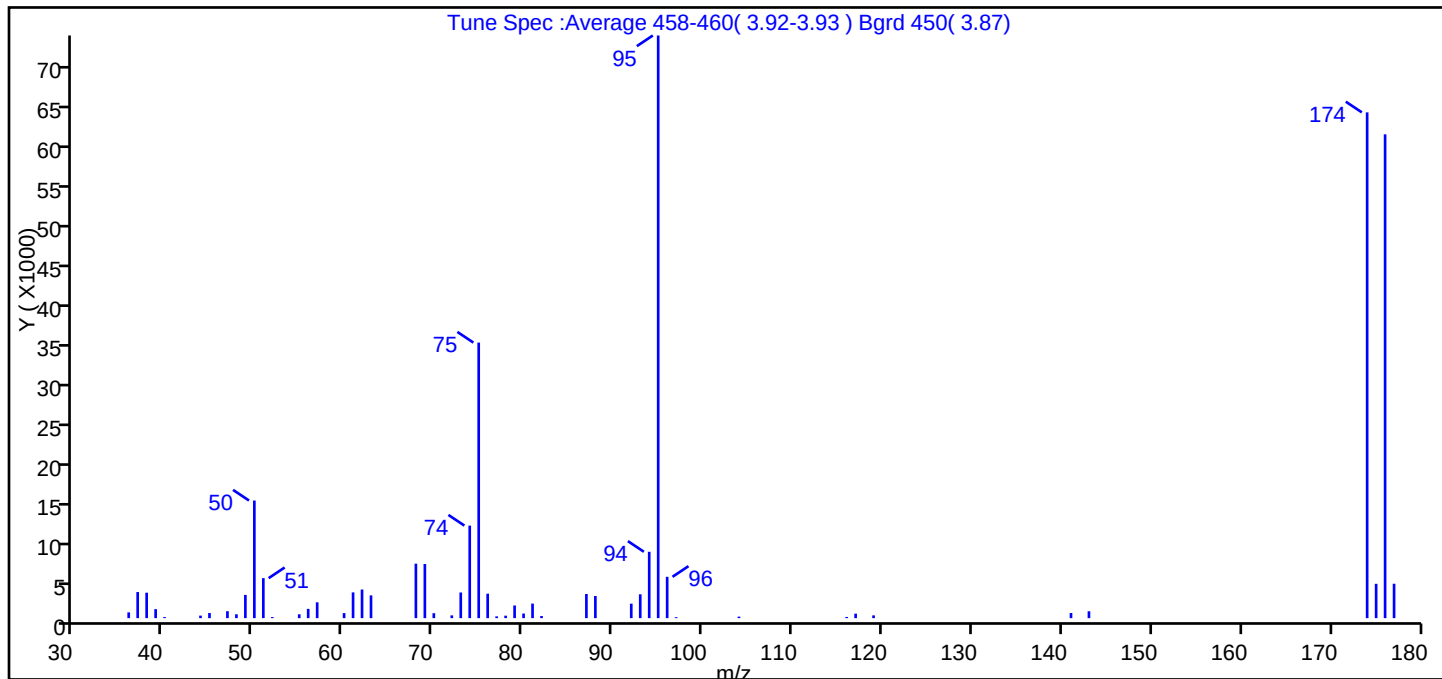
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9062.D
Injection Date: 09-Nov-2016 15:56:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: JG ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-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	100.0
50	15 to 40% of m/z 95	20.2
75	30 to 60% of m/z 95	47.3
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.8
175	5 to 9% of m/z 174	5.9 (6.8)
176	Greater than 95% but less than 101% of m/z 174	83.0 (95.7)
177	5 to 9% of m/z 176	5.9 (7.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9062.D\S-8260.rslt\spectra.d
Injection Date: 09-Nov-2016 15:56:30
Spectrum: Tune Spec :Average 458-460(3.92-3.93) Bgrd 450(3.87)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	729	55.00	487	75.00	34784	95.00	73552
37.00	3294	56.00	1172	76.00	3087	96.00	5217
38.00	3211	57.00	1998	77.00	224	97.00	120
39.00	1137	60.00	638	78.00	312	104.00	192
40.00	135	61.00	3250	79.00	1599	116.00	150
44.00	319	62.00	3614	80.00	582	117.00	566
45.00	646	63.00	2872	81.00	1838	119.00	350
47.00	875	68.00	6878	82.00	268	141.00	645
48.00	487	69.00	6832	87.00	3048	143.00	868
49.00	2932	70.00	625	88.00	2799	174.00	63848
50.00	14845	72.00	350	92.00	1829	175.00	4332
51.00	5048	73.00	3240	93.00	3009	176.00	61072
52.00	137	74.00	11683	94.00	8377	177.00	4343

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0246.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Dec-2016 08:39:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0058820-001
Operator ID: NEA Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Dec-2016 08:47:54 Calib Date: 09-Nov-2016 23:47:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: archern

Date: 02-Dec-2016 08:47:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.917	3.917	0.000	0	48737	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

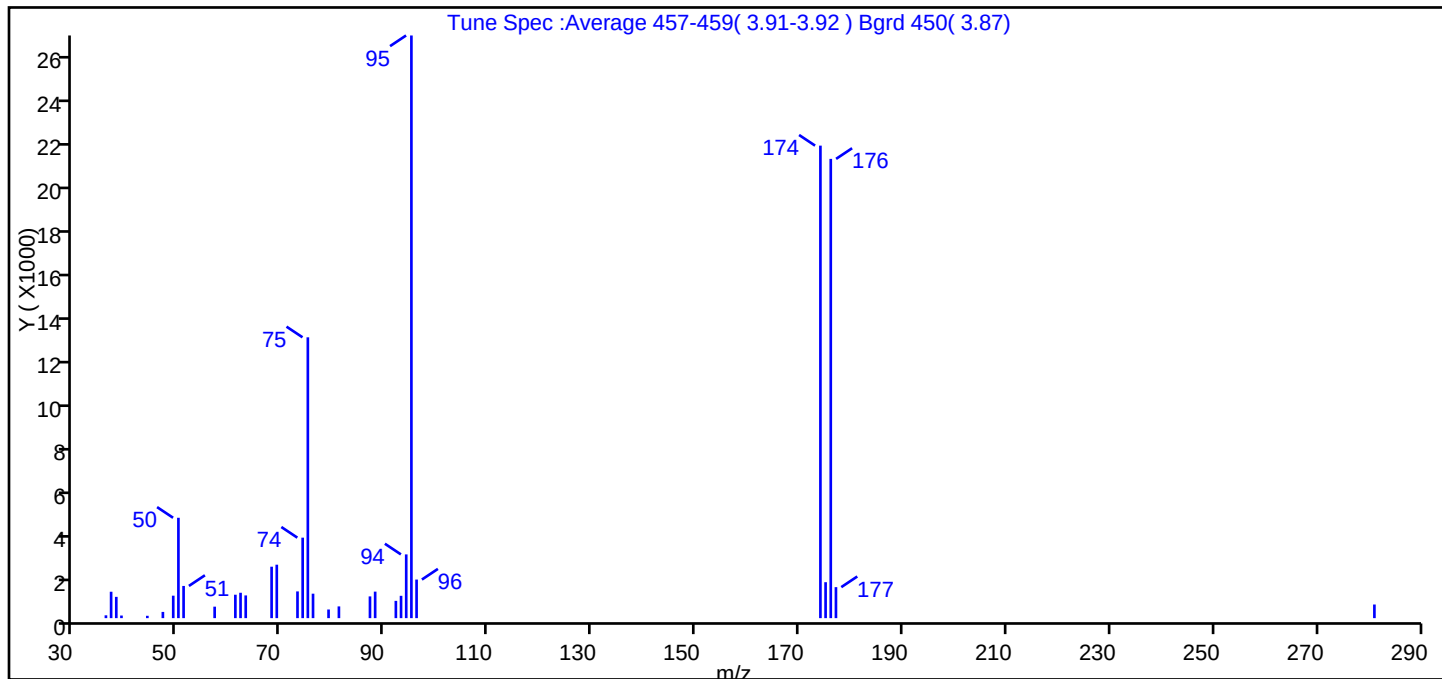
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0246.D
Injection Date: 02-Dec-2016 08:39:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: NEA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-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	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.1
175	5 to 9% of m/z 174	6.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	78.8 (97.2)
177	5 to 9% of m/z 176	5.3 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0246.D\S-8260.rslt\spectra.d
Injection Date: 02-Dec-2016 08:39:30
Spectrum: Tune Spec :Average 457-459(3.91-3.92) Bgrd 450(3.87)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	130	57.00	527	76.00	1123	96.00	1771
37.00	1212	61.00	1075	79.00	397	174.00	21688
38.00	977	62.00	1165	81.00	539	175.00	1650
39.00	120	63.00	1043	87.00	998	176.00	21080
44.00	108	68.00	2361	88.00	1217	177.00	1423
47.00	286	69.00	2453	92.00	793	281.00	626
49.00	1031	73.00	1227	93.00	1025		
50.00	4607	74.00	3694	94.00	2926		
51.00	1478	75.00	12890	95.00	26744		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0273.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Dec-2016 19:24:30 ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0058844-001
Operator ID: SO Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 03-Dec-2016 09:02:27 Calib Date: 09-Nov-2016 23:47:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:02:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.918	3.918	0.000	0	112388	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0273.D

Injection Date: 02-Dec-2016 19:24:30

Instrument ID: HP5973S

Lims ID: BFB

Client ID:

Operator ID: SO

ALS Bottle#: 28 Worklist Smp#: 1

Injection Vol: 1.0 uL

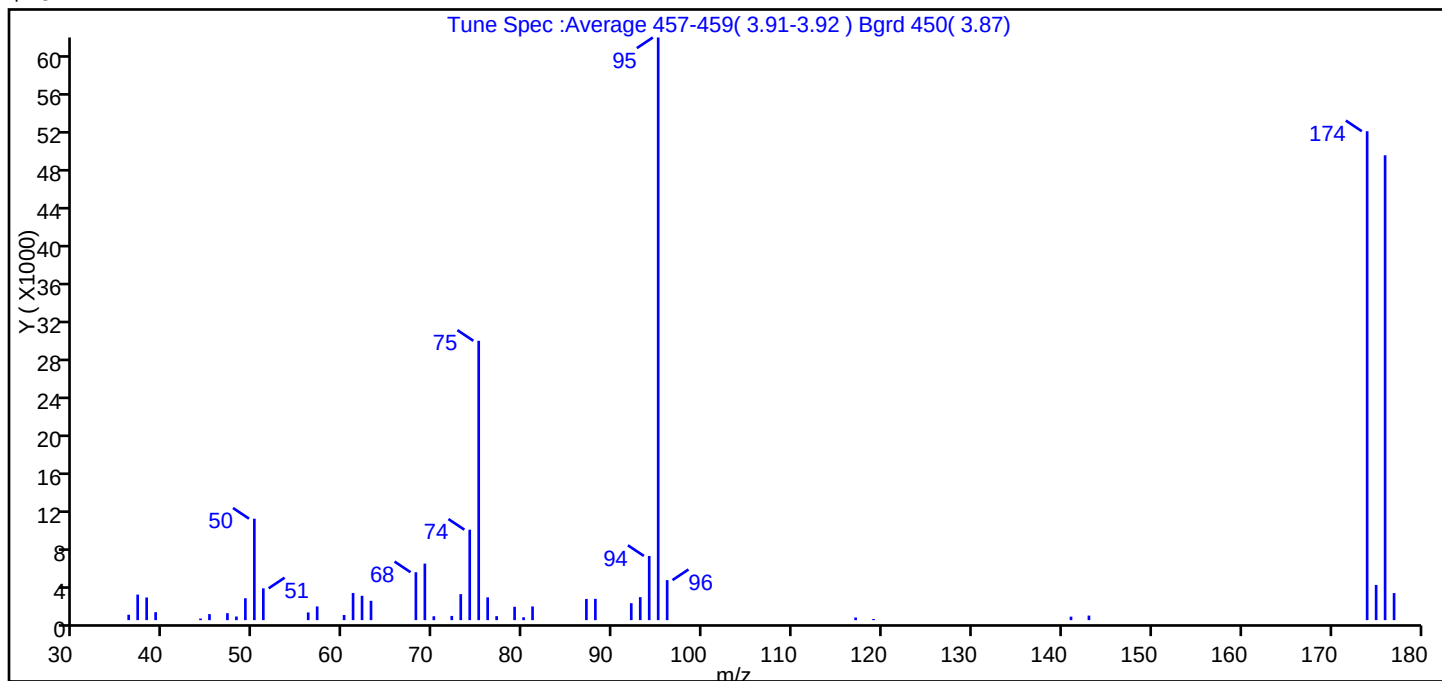
Dil. Factor: 1.0000

Method: S-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	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	83.9
175	5 to 9% of m/z 174	6.0 (7.2)
176	Greater than 95% but less than 101% of m/z 174	79.8 (95.1)
177	5 to 9% of m/z 176	4.6 (5.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0273.D\S-8260.rslt\spectra.d
Injection Date: 02-Dec-2016 19:24:30
Spectrum: Tune Spec :Average 457-459(3.91-3.92) Bgrd 450(3.87)
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	569	56.00	808	74.00	9476	94.00	6726
37.00	2676	57.00	1435	75.00	29272	95.00	61056
38.00	2375	60.00	541	76.00	2387	96.00	4195
39.00	835	61.00	2846	77.00	420	117.00	277
44.00	167	62.00	2552	79.00	1401	119.00	120
45.00	630	63.00	2026	80.00	301	141.00	367
47.00	730	68.00	5020	81.00	1436	143.00	479
48.00	380	69.00	5925	87.00	2222	174.00	51232
49.00	2294	70.00	406	88.00	2231	175.00	3688
50.00	10633	72.00	441	92.00	1774	176.00	48712
51.00	3333	73.00	2725	93.00	2409	177.00	2836

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0302.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Dec-2016 08:59:30 ALS Bottle#: 57 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0058850-001
Operator ID: GTG Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 03-Dec-2016 09:16:15 Calib Date: 09-Nov-2016 23:47:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:16:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.948	3.948	0.000	0	156965	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

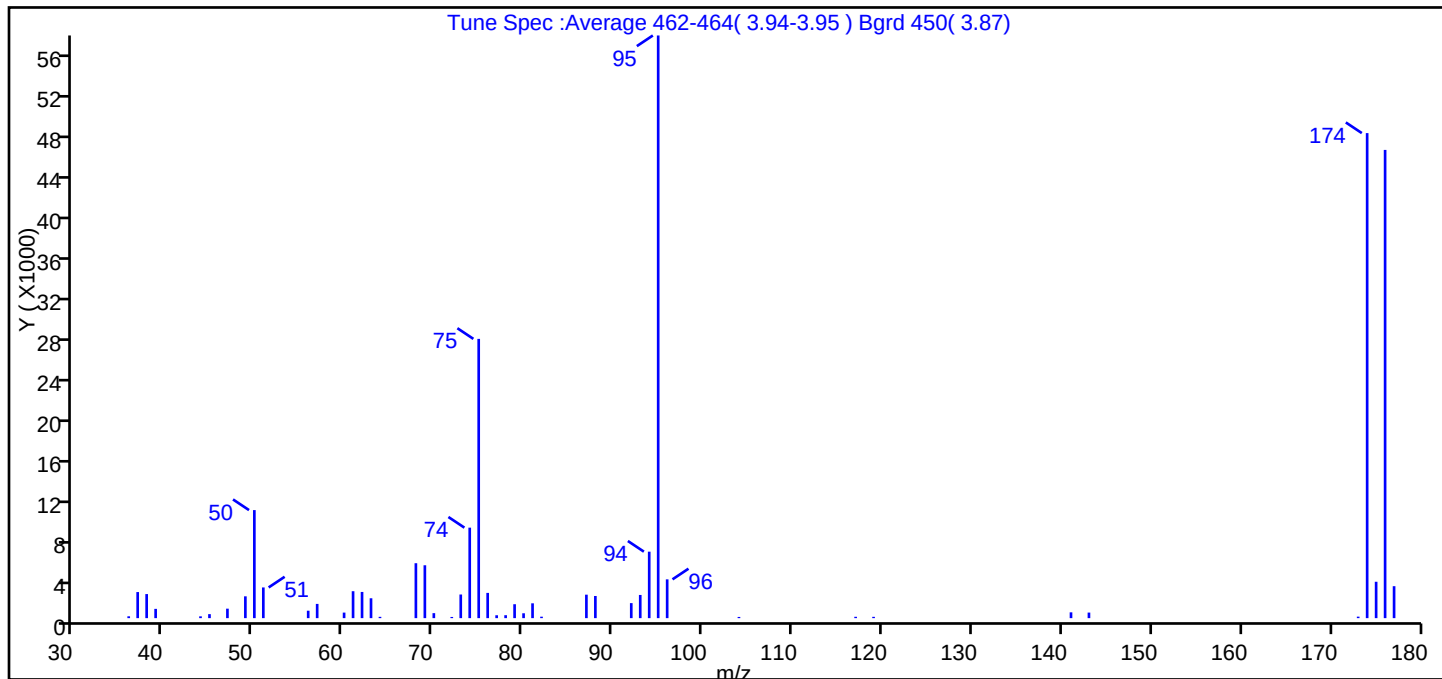
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0302.D
Injection Date: 03-Dec-2016 08:59:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: GTG ALS Bottle#: 57 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-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	100.0
50	15 to 40% of m/z 95	18.5
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.3 (0.3)
174	50 to 120% of m/z 95	83.2
175	5 to 9% of m/z 174	6.2 (7.5)
176	Greater than 95% but less than 101% of m/z 174	80.4 (96.5)
177	5 to 9% of m/z 176	5.5 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0302.D\S-8260.rslt\spectra.d
Injection Date: 03-Dec-2016 08:59:30
Spectrum: Tune Spec :Average 462-464(3.94-3.95) Bgrd 450(3.87)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	183	60.00	552	76.00	2509	95.00	57920
37.00	2592	61.00	2677	77.00	288	96.00	3856
38.00	2393	62.00	2604	78.00	293	104.00	119
39.00	922	63.00	1976	79.00	1384	117.00	135
44.00	179	64.00	130	80.00	484	119.00	130
45.00	398	68.00	5460	81.00	1474	141.00	578
47.00	942	69.00	5256	82.00	145	143.00	553
49.00	2169	70.00	496	87.00	2333	173.00	149
50.00	10740	72.00	118	88.00	2202	174.00	48216
51.00	3052	73.00	2350	92.00	1494	175.00	3616
56.00	739	74.00	8995	93.00	2305	176.00	46544
57.00	1415	75.00	27760	94.00	6608	177.00	3177

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-334403/7

Matrix: Water Lab File ID: S0252.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 10:58

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-334403/7
 Matrix: Water Lab File ID: S0252.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 10:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0252.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 02-Dec-2016 10:58:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0058820-007
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 09:15:34 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: archern

Date: 02-Dec-2016 11:33:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	76933	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	160042	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	93	155168	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	57	94075	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	58797	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	92	394958	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.859	-0.006	87	126050	25.0	23.8	
10 Dichlorodifluoromethane	85		1.324					ND	
11 Chlorodifluoromethane	51		1.349					ND	
12 Chloromethane	50		1.501					ND	
13 Vinyl chloride	62		1.604					ND	
151 Butadiene	54		1.635					ND	
14 Bromomethane	94		1.939					ND	
15 Chloroethane	64		2.048					ND	
16 Dichlorofluoromethane	67		2.267					ND	
17 Trichlorofluoromethane	101		2.273					ND	
148 Ethanol	45		2.565					ND	
18 Ethyl ether	59		2.571					ND	
19 Propene oxide	58		2.657					ND	
20 Acrolein	56		2.748					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.803					ND	
22 1,1-Dichloroethene	96		2.809					ND	
23 Acetone	43		2.912					ND	
25 Iodomethane	142		2.979					ND	
26 Carbon disulfide	76		3.016					ND	
24 Isopropyl alcohol	45		3.095					ND	
28 3-Chloro-1-propene	41		3.174					ND	
29 Acetonitrile	40		3.222					ND	
27 Methyl acetate	43		3.222					ND	
30 Methylene Chloride	84		3.320					ND	
31 2-Methyl-2-propanol	59		3.478					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.545					ND	
34 trans-1,2-Dichloroethene	96		3.557					ND	
33 Acrylonitrile	53		3.600					ND	
35 Hexane	57		3.764					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.983					ND	
36 Isopropyl ether	45		4.001					ND	
37 Vinyl acetate	43		4.032					ND	
40 2-Chloro-1,3-butadiene	53		4.044					ND	
38 1,1-Dimethoxyethane	75		4.074					ND	
41 Tert-butyl ethyl ether	59		4.342					ND	
44 2,2-Dichloropropane	77		4.512					ND	
45 cis-1,2-Dichloroethene	96		4.543					ND	
43 2-Butanone (MEK)	43		4.573					ND	
42 Ethyl acetate	43		4.609					ND	
46 Propionitrile	54		4.676					ND	
48 Chlorobromomethane	128		4.780					ND	
47 Methacrylonitrile	41		4.786					ND	
49 Tetrahydrofuran	42		4.804					ND	
50 Chloroform	83		4.859					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
51 1,1,1-Trichloroethane	97		4.981					ND	
52 Cyclohexane	56		4.993					ND	
55 Carbon tetrachloride	117		5.120					ND	
54 1,1-Dichloropropene	75		5.133					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
57 Benzene	78		5.333					ND	
53 Isobutyl alcohol	43		5.333					ND	
152 Isooctane	57		5.339					ND	
147 t-Amyl alcohol	59		5.394					ND	
58 1,2-Dichloroethane	62		5.394					ND	
56 Tert-amyl methyl ether	73		5.412					ND	
59 n-Heptane	43		5.522					ND	
1 1,4-Difluorobenzene	114		5.717					ND	
62 Trichloroethene	95		5.948					ND	
60 n-Butanol	56		5.960					ND	
142 Ethyl acrylate	55		6.069					ND	
64 Methylcyclohexane	83		6.076					ND	
65 1,2-Dichloropropane	63		6.191					ND	
63 Methyl methacrylate	41		6.282					ND	
67 Dibromomethane	93		6.325					ND	
66 1,4-Dioxane	88		6.337					ND	
68 Dichlorobromomethane	83		6.477					ND	
70 2-Nitropropane	43		6.726					ND	
69 2-Chloroethyl vinyl ether	63		6.757					ND	
71 Epichlorohydrin	57		6.848					ND	
72 cis-1,3-Dichloropropene	75		6.897					ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037					ND	
74 Toluene	92		7.189					ND	
76 2-Methylthiophene	97		7.329					ND	
77 trans-1,3-Dichloropropene	75		7.463					ND	
78 3-Methylthiophene	97		7.493					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		7.511					ND	
79 1,1,2-Trichloroethane	83		7.651					ND	
81 Tetrachloroethene	166		7.724					ND	
82 1,3-Dichloropropane	76		7.815					ND	
80 2-Hexanone	43		7.876					ND	
155 n-Butyl acetate	43		7.992					ND	
83 Chlorodibromomethane	129		8.053					ND	
84 Ethylene Dibromide	107		8.162					ND	
146 1-Chlorohexane	55		8.588					ND	
85 3-Chlorobenzotrifluoride	180		8.606					ND	
87 Chlorobenzene	112		8.643					ND	
86 4-Chlorobenzotrifluoride	180		8.667					ND	
88 Ethylbenzene	91		8.734					ND	
89 1,1,1,2-Tetrachloroethane	131		8.740					ND	
90 m-Xylene & p-Xylene	106		8.856					ND	
91 o-Xylene	106		9.282					ND	
92 Styrene	104		9.312					ND	
95 Bromoform	173		9.555					ND	
93 2-Chlorobenzotrifluoride	180		9.586					ND	
94 Isopropylbenzene	105		9.665					ND	
96 Cyclohexanone	55		9.823					ND	
101 Bromobenzene	156		10.006					ND	
97 1,1,2,2-Tetrachloroethane	83		10.048					ND	
100 1,2,3-Trichloropropane	110		10.085					ND	
99 N-Propylbenzene	91		10.085					ND	
98 trans-1,4-Dichloro-2-buten	53		10.091					ND	
103 2-Chlorotoluene	126		10.188					ND	
104 3-Chlorotoluene	126		10.249					ND	
102 1,3,5-Trimethylbenzene	105		10.261					ND	
105 4-Chlorotoluene	126		10.298					ND	
106 tert-Butylbenzene	134		10.571					ND	
107 1,2,4-Trimethylbenzene	105		10.626					ND	
108 Pentachloroethane	167		10.632					ND	
109 sec-Butylbenzene	105		10.778					ND	
110 4-Isopropyltoluene	119		10.918					ND	
111 1,3-Dichlorobenzene	146		10.918					ND	
114 Dicyclopentadiene	66		10.985					ND	
113 1,4-Dichlorobenzene	146		11.003					ND	
112 1,2,3-Trimethylbenzene	105		11.028					ND	
150 Benzyl chloride	126		11.143					ND	
115 n-Butylbenzene	91		11.301					ND	
116 1,2-Dichlorobenzene	146		11.350					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.074					ND	
118 1,3,5-Trichlorobenzene	180		12.208					ND	
119 1,2,4-Trichlorobenzene	180		12.749					ND	
120 Hexachlorobutadiene	225		12.859					ND	
121 Naphthalene	128		12.962					ND	
122 1,2,3-Trichlorobenzene	180		13.163					ND	
149 2-Methylnaphthalene	142		13.869					ND	
135 Hexachloroethane	117		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
145 Ethylene oxide TIC	1		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
T 7 Ethylene oxide	44	1.549	1.528	0.021	27	1851		0	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0252.D

Injection Date: 02-Dec-2016 10:58:30

Instrument ID: HP5973S

Operator ID: NEA

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

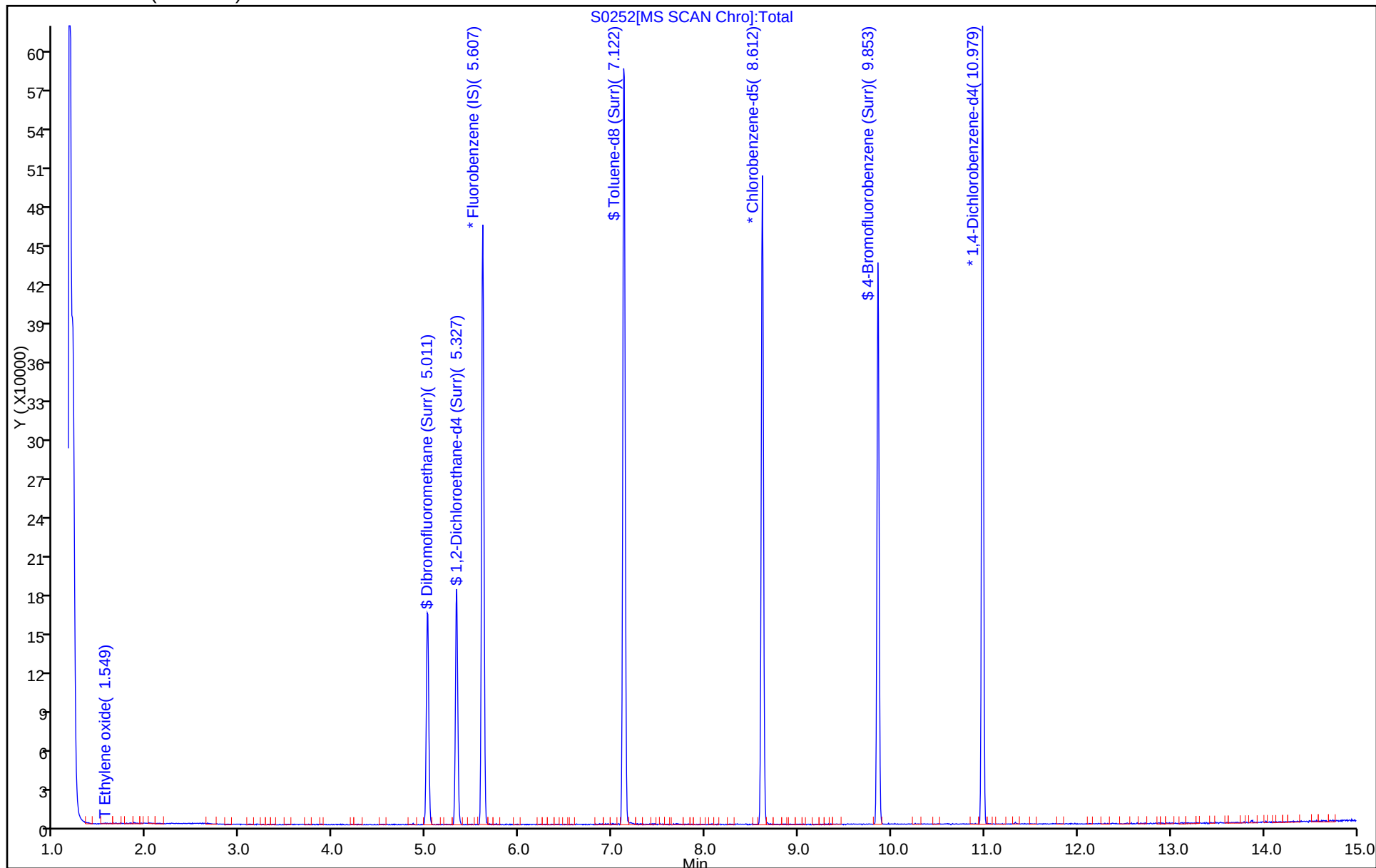
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-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.: 480-110191-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-334536/6

Matrix: Water Lab File ID: S0278.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 21:22

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-334536/6
 Matrix: Water Lab File ID: S0278.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 21:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0278.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 02-Dec-2016 21:22:30 ALS Bottle#: 33 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0058844-006
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:03:07 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:04:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78234	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	159705	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	155299	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	58	91483	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.321	5.327	-0.006	0	59767	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	92	396172	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	123016	25.0	23.3	
10 Dichlorodifluoromethane	85		1.318					ND	
11 Chlorodifluoromethane	51		1.349					ND	
12 Chloromethane	50		1.501					ND	
13 Vinyl chloride	62		1.598					ND	
151 Butadiene	54		1.628					ND	
14 Bromomethane	94		1.920					ND	
15 Chloroethane	64		2.042					ND	
16 Dichlorofluoromethane	67		2.267					ND	
17 Trichlorofluoromethane	101		2.267					ND	
148 Ethanol	45		2.565					ND	
18 Ethyl ether	59		2.565					ND	
19 Propene oxide	58		2.663					ND	
20 Acrolein	56		2.748					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797					ND	
22 1,1-Dichloroethene	96		2.803					ND	
23 Acetone	43		2.912					ND	
25 Iodomethane	142		2.979					ND	
26 Carbon disulfide	76		3.009					ND	
24 Isopropyl alcohol	45		3.101					ND	
28 3-Chloro-1-propene	41		3.168					ND	
27 Methyl acetate	43		3.216					ND	
29 Acetonitrile	40		3.222					ND	
30 Methylene Chloride	84		3.338					ND	
31 2-Methyl-2-propanol	59		3.478					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.539					ND	
34 trans-1,2-Dichloroethene	96		3.557					ND	
33 Acrylonitrile	53		3.600					ND	
35 Hexane	57		3.764					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.977					ND	
36 Isopropyl ether	45		4.001					ND	
37 Vinyl acetate	43		4.031					ND	
40 2-Chloro-1,3-butadiene	53		4.044					ND	
38 1,1-Dimethoxyethane	75		4.080					ND	
41 Tert-butyl ethyl ether	59		4.348					ND	
44 2,2-Dichloropropane	77		4.506					ND	
45 cis-1,2-Dichloroethene	96		4.536					ND	
43 2-Butanone (MEK)	43		4.573					ND	
42 Ethyl acetate	43		4.615					ND	
46 Propionitrile	54		4.676					ND	
48 Chlorobromomethane	128		4.774					ND	
47 Methacrylonitrile	41		4.792					ND	
49 Tetrahydrofuran	42		4.804					ND	
50 Chloroform	83		4.853					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
51 1,1,1-Trichloroethane	97		4.974					ND	
52 Cyclohexane	56		4.987					ND	
55 Carbon tetrachloride	117		5.114					ND	
54 1,1-Dichloropropene	75		5.127					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
53 Isobutyl alcohol	43		5.327					ND	
57 Benzene	78		5.333					ND	
152 Isooctane	57		5.339					ND	
147 t-Amyl alcohol	59		5.394					ND	
58 1,2-Dichloroethane	62		5.394					ND	
56 Tert-amyl methyl ether	73		5.412					ND	
59 n-Heptane	43		5.522					ND	
1 1,4-Difluorobenzene	114		5.717					ND	
62 Trichloroethene	95		5.948					ND	
60 n-Butanol	56		5.960					ND	
142 Ethyl acrylate	55		6.069					ND	
64 Methylcyclohexane	83		6.076					ND	
65 1,2-Dichloropropane	63		6.185					ND	
63 Methyl methacrylate	41		6.288					ND	
67 Dibromomethane	93		6.325					ND	
66 1,4-Dioxane	88		6.337					ND	
68 Dichlorobromomethane	83		6.477					ND	
70 2-Nitropropane	43		6.726					ND	
69 2-Chloroethyl vinyl ether	63		6.751					ND	
71 Epichlorohydrin	57		6.848					ND	
72 cis-1,3-Dichloropropene	75		6.897					ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037					ND	
74 Toluene	92		7.189					ND	
76 2-Methylthiophene	97		7.329					ND	
77 trans-1,3-Dichloropropene	75		7.463					ND	
78 3-Methylthiophene	97		7.493					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		7.505					ND	
79 1,1,2-Trichloroethane	83		7.651					ND	
81 Tetrachloroethene	166		7.724					ND	
82 1,3-Dichloropropane	76		7.815					ND	
80 2-Hexanone	43		7.876					ND	
155 n-Butyl acetate	43		7.992					ND	
83 Chlorodibromomethane	129		8.053					ND	
84 Ethylene Dibromide	107		8.162					ND	
146 1-Chlorohexane	55		8.588					ND	
85 3-Chlorobenzotrifluoride	180		8.606					ND	
87 Chlorobenzene	112		8.643					ND	
86 4-Chlorobenzotrifluoride	180		8.667					ND	
88 Ethylbenzene	91		8.734					ND	
89 1,1,1,2-Tetrachloroethane	131		8.734					ND	
90 m-Xylene & p-Xylene	106		8.856					ND	
91 o-Xylene	106		9.282					ND	
92 Styrene	104		9.312					ND	
95 Bromoform	173		9.555					ND	
93 2-Chlorobenzotrifluoride	180		9.586					ND	
94 Isopropylbenzene	105		9.665					ND	
96 Cyclohexanone	55		9.823					ND	
101 Bromobenzene	156		10.006					ND	
97 1,1,2,2-Tetrachloroethane	83		10.048					ND	
100 1,2,3-Trichloropropane	110		10.079					ND	
99 N-Propylbenzene	91		10.085					ND	
98 trans-1,4-Dichloro-2-buten	53		10.091					ND	
103 2-Chlorotoluene	126		10.188					ND	
104 3-Chlorotoluene	126		10.249					ND	
102 1,3,5-Trimethylbenzene	105		10.261					ND	
105 4-Chlorotoluene	126		10.298					ND	
106 tert-Butylbenzene	134		10.571					ND	
108 Pentachloroethane	167		10.626					ND	
107 1,2,4-Trimethylbenzene	105		10.626					ND	
109 sec-Butylbenzene	105		10.778					ND	
111 1,3-Dichlorobenzene	146		10.912					ND	
110 4-Isopropyltoluene	119		10.918					ND	
114 Dicyclopentadiene	66		10.985					ND	
113 1,4-Dichlorobenzene	146		11.003					ND	
112 1,2,3-Trimethylbenzene	105		11.027					ND	
150 Benzyl chloride	126		11.143					ND	
115 n-Butylbenzene	91		11.301					ND	
116 1,2-Dichlorobenzene	146		11.350					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068					ND	
118 1,3,5-Trichlorobenzene	180		12.208					ND	
119 1,2,4-Trichlorobenzene	180		12.749					ND	
120 Hexachlorobutadiene	225		12.859					ND	
121 Naphthalene	128		12.962					ND	
122 1,2,3-Trichlorobenzene	180		13.163					ND	
149 2-Methylnaphthalene	142		13.869					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
T 7 Ethylene oxide	44	1.537	1.528	0.009	27	686		0	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0278.D

Injection Date: 02-Dec-2016 21:22:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

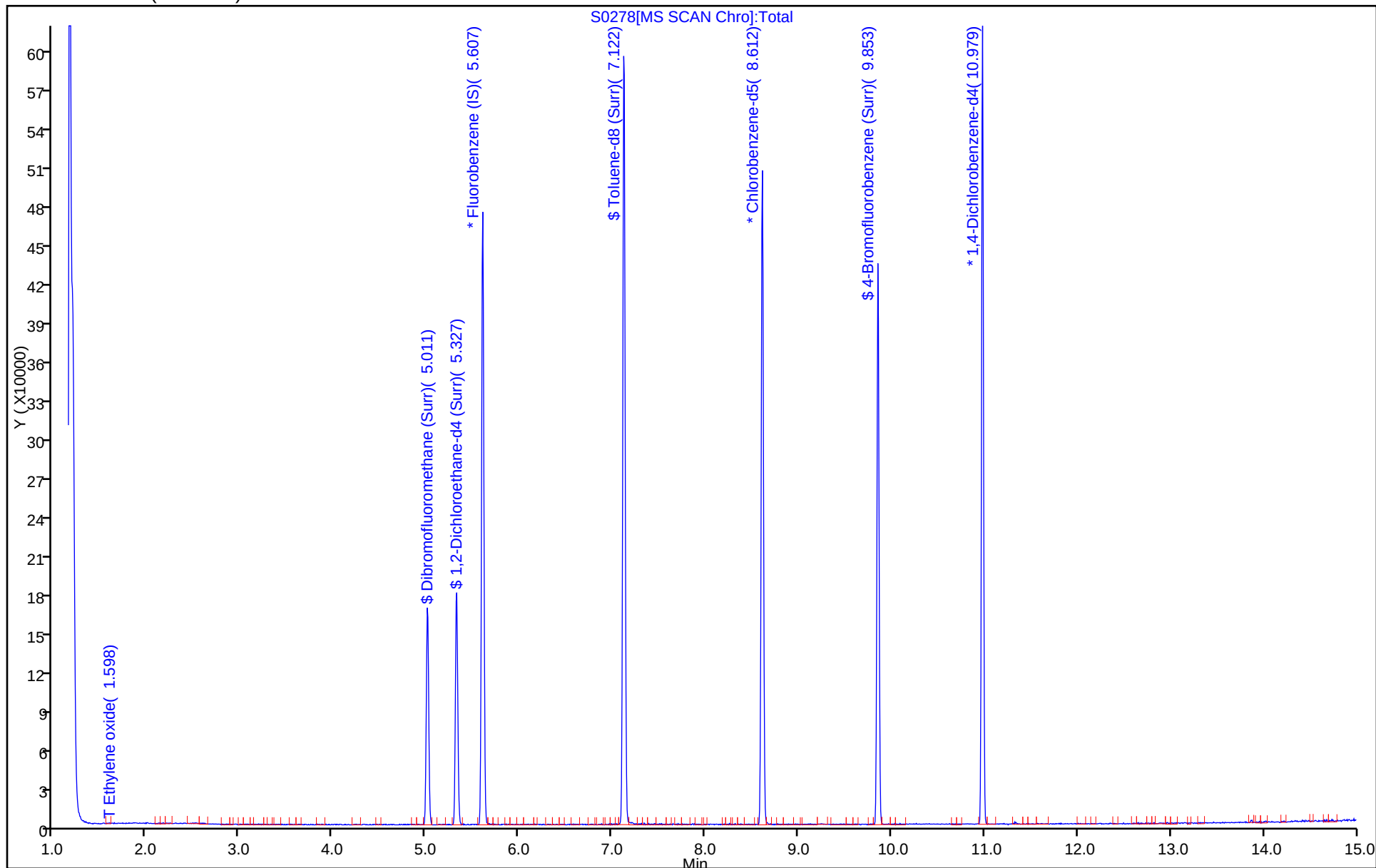
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: S-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.: 480-110191-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-334565/6

Matrix: Water Lab File ID: S0309.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 11:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
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
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
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
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
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	1.0	U	1.0	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	1.0	U	1.0	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
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-334565/6
 Matrix: Water Lab File ID: S0309.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 11:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
100-42-5	Styrene	1.0	U	1.0	0.73
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
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0309.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Dec-2016 11:49:30 ALS Bottle#: 64 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0058850-006
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 12:27:33 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 12:27:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	75464	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	82	156916	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	94	154052	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.017	-0.006	57	92544	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	58663	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	91	382462	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	119197	25.0	23.0	
10 Dichlorodifluoromethane	85		1.324					ND	
11 Chlorodifluoromethane	51		1.349					ND	
12 Chloromethane	50		1.501					ND	
13 Vinyl chloride	62		1.604					ND	
151 Butadiene	54		1.628					ND	
14 Bromomethane	94		1.920					ND	
15 Chloroethane	64		2.024					ND	
16 Dichlorofluoromethane	67		2.261					ND	
17 Trichlorofluoromethane	101		2.267					ND	
148 Ethanol	45		2.571					ND	
18 Ethyl ether	59		2.571					ND	
19 Propene oxide	58		2.663					ND	
20 Acrolein	56		2.748					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.797					ND	
22 1,1-Dichloroethene	96		2.809					ND	
23 Acetone	43		2.912					ND	
25 Iodomethane	142		2.979					ND	
26 Carbon disulfide	76		3.009					ND	
24 Isopropyl alcohol	45		3.101					ND	
28 3-Chloro-1-propene	41		3.174					ND	
27 Methyl acetate	43		3.222					ND	
29 Acetonitrile	40		3.228					ND	
30 Methylene Chloride	84		3.338					ND	
31 2-Methyl-2-propanol	59		3.490					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.539					ND	
34 trans-1,2-Dichloroethene	96		3.551					ND	
33 Acrylonitrile	53		3.600					ND	
35 Hexane	57		3.764					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.977					ND	
36 Isopropyl ether	45		4.001					ND	
37 Vinyl acetate	43		4.031					ND	
40 2-Chloro-1,3-butadiene	53		4.044					ND	
38 1,1-Dimethoxyethane	75		4.080					ND	
41 Tert-butyl ethyl ether	59		4.348					ND	
44 2,2-Dichloropropane	77		4.506					ND	
45 cis-1,2-Dichloroethene	96		4.542					ND	
43 2-Butanone (MEK)	43		4.579					ND	
42 Ethyl acetate	43		4.615					ND	
46 Propionitrile	54		4.676					ND	
48 Chlorobromomethane	128		4.780					ND	
47 Methacrylonitrile	41		4.786					ND	
49 Tetrahydrofuran	42		4.810					ND	
50 Chloroform	83		4.853					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
51 1,1,1-Trichloroethane	97		4.981					ND	
52 Cyclohexane	56		4.987					ND	
55 Carbon tetrachloride	117		5.120					ND	
54 1,1-Dichloropropene	75		5.133					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
53 Isobutyl alcohol	43		5.333					ND	
57 Benzene	78		5.333					ND	
152 Isooctane	57		5.339					ND	
147 t-Amyl alcohol	59		5.394					ND	
58 1,2-Dichloroethane	62		5.394					ND	
56 Tert-amyl methyl ether	73		5.412					ND	
59 n-Heptane	43		5.522					ND	
1 1,4-Difluorobenzene	114		5.717					ND	
62 Trichloroethene	95		5.948					ND	
60 n-Butanol	56		5.960					ND	
142 Ethyl acrylate	55		6.069					ND	
64 Methylcyclohexane	83		6.076					ND	
65 1,2-Dichloropropane	63		6.185					ND	
63 Methyl methacrylate	41		6.288					ND	
67 Dibromomethane	93		6.325					ND	
66 1,4-Dioxane	88		6.331					ND	
68 Dichlorobromomethane	83		6.477					ND	
70 2-Nitropropane	43		6.720					ND	
69 2-Chloroethyl vinyl ether	63		6.751					ND	
71 Epichlorohydrin	57		6.848					ND	
72 cis-1,3-Dichloropropene	75		6.897					ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.037					ND	
74 Toluene	92		7.189					ND	
76 2-Methylthiophene	97		7.329					ND	
77 trans-1,3-Dichloropropene	75		7.463					ND	
78 3-Methylthiophene	97		7.493					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		7.511					ND	
79 1,1,2-Trichloroethane	83		7.651					ND	
81 Tetrachloroethene	166		7.724					ND	
82 1,3-Dichloropropane	76		7.815					ND	
80 2-Hexanone	43		7.876					ND	
155 n-Butyl acetate	43		7.992					ND	
83 Chlorodibromomethane	129		8.053					ND	
84 Ethylene Dibromide	107		8.162					ND	
146 1-Chlorohexane	55		8.588					ND	
85 3-Chlorobenzotrifluoride	180		8.606					ND	
87 Chlorobenzene	112		8.643					ND	
86 4-Chlorobenzotrifluoride	180		8.667					ND	
89 1,1,1,2-Tetrachloroethane	131		8.734					ND	
88 Ethylbenzene	91		8.734					ND	
90 m-Xylene & p-Xylene	106		8.856					ND	
91 o-Xylene	106		9.282					ND	
92 Styrene	104		9.312					ND	
95 Bromoform	173		9.555					ND	
93 2-Chlorobenzotrifluoride	180		9.586					ND	
94 Isopropylbenzene	105		9.665					ND	
96 Cyclohexanone	55		9.823					ND	
101 Bromobenzene	156		10.006					ND	
97 1,1,2,2-Tetrachloroethane	83		10.048					ND	
100 1,2,3-Trichloropropane	110		10.079					ND	
99 N-Propylbenzene	91		10.085					ND	
98 trans-1,4-Dichloro-2-buten	53		10.091					ND	
103 2-Chlorotoluene	126		10.188					ND	
104 3-Chlorotoluene	126		10.249					ND	
102 1,3,5-Trimethylbenzene	105		10.255					ND	
105 4-Chlorotoluene	126		10.298					ND	
106 tert-Butylbenzene	134		10.571					ND	
108 Pentachloroethane	167		10.626					ND	
107 1,2,4-Trimethylbenzene	105		10.626					ND	
109 sec-Butylbenzene	105		10.778					ND	
111 1,3-Dichlorobenzene	146		10.918					ND	
110 4-Isopropyltoluene	119		10.918					ND	
114 Dicyclopentadiene	66		10.985					ND	
113 1,4-Dichlorobenzene	146		11.003					ND	
112 1,2,3-Trimethylbenzene	105		11.028					ND	
150 Benzyl chloride	126		11.143					ND	
115 n-Butylbenzene	91		11.301					ND	
116 1,2-Dichlorobenzene	146		11.350					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.068					ND	
118 1,3,5-Trichlorobenzene	180		12.208					ND	
119 1,2,4-Trichlorobenzene	180		12.743					ND	
120 Hexachlorobutadiene	225		12.859					ND	
121 Naphthalene	128		12.962					ND	
122 1,2,3-Trichlorobenzene	180		13.163					ND	
149 2-Methylnaphthalene	142		13.869					ND	
136 Nitrobenzene	77		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
T 7 Ethylene oxide	44	1.537	1.528	0.009	0	1702		0	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	

Reagents:

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0309.D

Injection Date: 03-Dec-2016 11:49:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

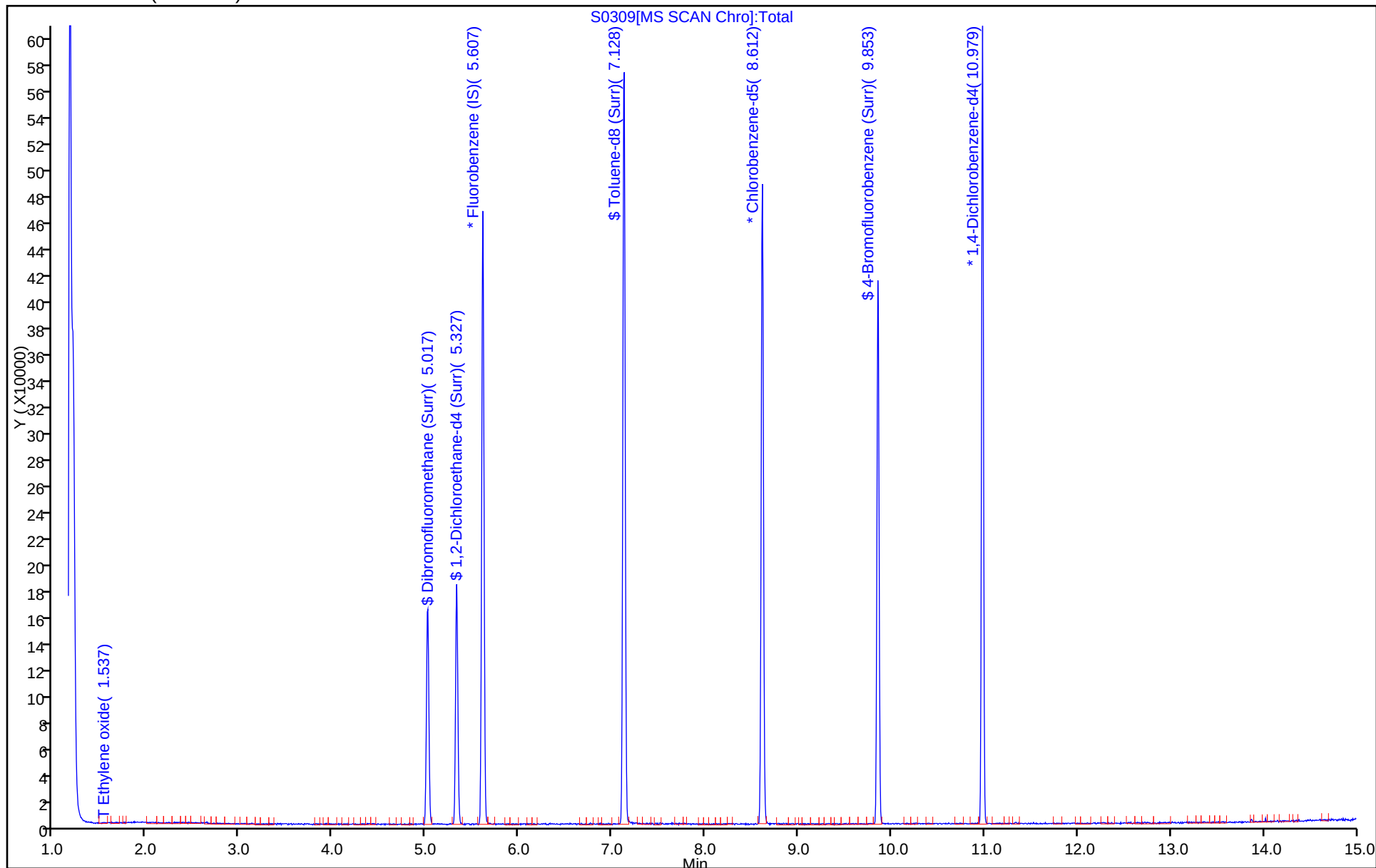
Dil. Factor: 1.0000

ALS Bottle#: 64

Method: S-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.: 480-110191-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-334403/5

Matrix: Water Lab File ID: S0250.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 10:12

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.7		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.5		1.0	0.23
75-34-3	1,1-Dichloroethane	22.4		1.0	0.38
75-35-4	1,1-Dichloroethene	22.5		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.3		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	25.6		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	25.0		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.7		1.0	0.39
106-93-4	1,2-Dibromoethane	24.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.9		1.0	0.79
107-06-2	1,2-Dichloroethane	22.2		1.0	0.21
78-87-5	1,2-Dichloropropane	24.0		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.4		1.0	0.77
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.4		1.0	0.84
78-93-3	2-Butanone (MEK)	109		10	1.3
591-78-6	2-Hexanone	108		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	110		5.0	2.1
67-64-1	Acetone	108		10	3.0
71-43-2	Benzene	22.6		1.0	0.41
75-27-4	Bromodichloromethane	23.5		1.0	0.39
75-25-2	Bromoform	25.7		1.0	0.26
74-83-9	Bromomethane	21.3		1.0	0.69
75-15-0	Carbon disulfide	19.5		1.0	0.19
56-23-5	Carbon tetrachloride	21.9		1.0	0.27
108-90-7	Chlorobenzene	23.3		1.0	0.75
75-00-3	Chloroethane	24.5		1.0	0.32
67-66-3	Chloroform	23.0		1.0	0.34
74-87-3	Chloromethane	19.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.2		1.0	0.36
110-82-7	Cyclohexane	21.2		1.0	0.18
124-48-1	Dibromochloromethane	24.9		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-334403/5
 Matrix: Water Lab File ID: S0250.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 10:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334403 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	15.3		1.0	0.68
100-41-4	Ethylbenzene	22.1		1.0	0.74
98-82-8	Isopropylbenzene	24.0		1.0	0.79
79-20-9	Methyl acetate	108		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	22.1		1.0	0.16
75-09-2	Methylene Chloride	22.6		1.0	0.44
100-42-5	Styrene	23.0		1.0	0.73
127-18-4	Tetrachloroethene	22.5		1.0	0.36
108-88-3	Toluene	22.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.1		1.0	0.37
79-01-6	Trichloroethene	22.6		1.0	0.46
75-69-4	Trichlorofluoromethane	20.8		1.0	0.88
75-01-4	Vinyl chloride	22.1		1.0	0.90
1330-20-7	Xylenes, Total	44.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0250.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 02-Dec-2016 10:12:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: iblk
 Misc. Info.: 480-0058820-005
 Operator ID: NEA Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Dec-2016 18:31:52 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: archern

Date: 02-Dec-2016 10:34:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	80395	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	85	160803	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	54	156587	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	82	96207	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	62354	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.128	7.122	0.006	90	397926	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.859	9.859	0.000	91	125584	25.0	23.6	
10 Dichlorodifluoromethane	85	1.318	1.324	-0.006	82	47628	25.0	15.3	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	73	81464	25.0	20.9	
12 Chloromethane	50	1.507	1.501	0.006	88	67731	25.0	19.7	
13 Vinyl chloride	62	1.604	1.604	0.000	93	70803	25.0	22.1	
151 Butadiene	54	1.628	1.635	-0.007	89	67643	25.0	21.0	
14 Bromomethane	94	1.920	1.939	-0.019	88	41770	25.0	21.3	
15 Chloroethane	64	2.036	2.048	-0.012	93	48700	25.0	24.5	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	79	126136	25.0	22.2	
17 Trichlorofluoromethane	101	2.273	2.273	0.000	66	94264	25.0	20.8	
148 Ethanol	45	2.571	2.565	0.006	90	89938	1000.0	2700.6	
18 Ethyl ether	59	2.571	2.571	0.000	89	75499	25.0	24.3	
19 Propene oxide	58	2.657	2.657	0.000	94	112448	NC	NC	
20 Acrolein	56	2.748	2.748	0.000	90	70301	125.0	110.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.796	2.803	-0.007	58	63154	25.0	20.2	
22 1,1-Dichloroethene	96	2.809	2.809	0.000	90	69889	25.0	22.5	
23 Acetone	43	2.918	2.912	0.006	99	145390	125.0	107.7	
25 Iodomethane	142	2.973	2.979	-0.006	98	108248	25.0	22.2	
26 Carbon disulfide	76	3.009	3.016	-0.007	97	201723	25.0	19.5	
24 Isopropyl alcohol	45	3.101	3.095	0.006	89	64294	250.0	218.6	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	89	95208	25.0	19.8	
29 Acetonitrile	40	3.222	3.222	0.000	8	62141	250.0	209.2	
27 Methyl acetate	43	3.222	3.222	0.000	96	326534	125.0	108.0	
30 Methylene Chloride	84	3.332	3.320	0.012	80	85488	25.0	22.6	
31 2-Methyl-2-propanol	59	3.484	3.478	0.006	97	116293	250.0	225.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	3.545	3.545	0.000	84	259849	25.0	23.5	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	78	76759	25.0	22.5	
33 Acrylonitrile	53	3.606	3.600	0.006	97	349254	250.0	226.8	
35 Hexane	57	3.764	3.764	0.000	89	117076	25.0	21.3	
39 1,1-Dichloroethane	63	3.983	3.983	0.000	84	139368	25.0	22.4	
36 Isopropyl ether	45	4.001	4.001	0.000	93	267242	25.0	23.9	
37 Vinyl acetate	43	4.037	4.037	0.005	97	408479	50.0	54.8	M
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	69	134375	25.0	24.5	
38 1,1-Dimethoxyethane	75	4.074	4.074	0.000	62	84326	125.0	117.1	
41 Tert-butyl ethyl ether	59	4.348	4.342	0.006	97	282674	25.0	24.0	
44 2,2-Dichloropropane	77	4.512	4.512	0.000	89	65802	25.0	23.8	
45 cis-1,2-Dichloroethene	96	4.542	4.543	-0.001	66	91823	25.0	24.0	
43 2-Butanone (MEK)	43	4.579	4.579	0.006	98	209530	125.0	109.1	M
42 Ethyl acetate	43	4.609	4.609	0.000	49	195009	50.0	51.3	M
46 Propionitrile	54	4.676	4.676	0.000	98	141751	250.0	223.1	
48 Chlorobromomethane	128	4.780	4.780	0.000	44	44959	25.0	23.1	
47 Methacrylonitrile	41	4.792	4.786	0.006	91	571293	250.0	230.7	
49 Tetrahydrofuran	42	4.804	4.804	0.000	32	72093	50.0	54.5	
50 Chloroform	83	4.859	4.859	0.000	65	138022	25.0	23.0	
51 1,1,1-Trichloroethane	97	4.980	4.981	-0.001	91	91329	25.0	22.0	
52 Cyclohexane	56	4.993	4.993	0.000	89	124612	25.0	21.2	
55 Carbon tetrachloride	117	5.120	5.120	0.000	77	88037	25.0	21.9	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	94	99748	25.0	21.6	
57 Benzene	78	5.339	5.333	0.006	96	321516	25.0	22.6	
53 Isobutyl alcohol	43	5.333	5.333	0.000	63	153874	625.0	785.8	
152 Isooctane	57	5.339	5.339	0.000	77	303462	25.0	28.2	
147 t-Amyl alcohol	59	5.394	5.394	0.000	10	99273	250.0	227.8	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	70	117498	25.0	22.2	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	79	315141	25.0	24.0	
59 n-Heptane	43	5.522	5.522	0.000	90	114757	25.0	20.2	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	266336	25.0	23.9	
62 Trichloroethene	95	5.948	5.948	0.000	93	81494	25.0	22.6	
60 n-Butanol	56	5.960	5.960	0.000	84	76191	625.0	558.8	
142 Ethyl acrylate	55	6.069	6.069	0.000	94	213194	25.0	41.2	
64 Methylcyclohexane	83	6.075	6.076	-0.001	80	131614	25.0	22.1	
65 1,2-Dichloropropane	63	6.191	6.191	0.000	93	84653	25.0	24.0	
63 Methyl methacrylate	41	6.288	6.282	0.006	85	152066	50.0	42.6	
67 Dibromomethane	93	6.325	6.325	0.000	88	50981	25.0	23.9	
66 1,4-Dioxane	88	6.337	6.337	0.000	31	20304	500.0	419.6	
68 Dichlorobromomethane	83	6.477	6.477	0.000	91	101455	25.0	23.5	
70 2-Nitropropane	43	6.751	6.726	0.025	44	77021	50.0	84.4	
69 2-Chloroethyl vinyl ether	63	6.757	6.757	0.000	80	57105	25.0	24.7	
71 Epichlorohydrin	57	6.848	6.848	0.000	98	98154	250.0	223.2	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	80	139331	25.0	25.2	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	94	411767	125.0	109.9	
74 Toluene	92	7.189	7.189	0.000	93	207300	25.0	22.6	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	89	122323	25.0	25.1	
75 Ethyl methacrylate	69	7.511	7.511	0.000	68	106175	25.0	25.1	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	85	60988	25.0	24.5	
81 Tetrachloroethene	166	7.730	7.724	0.006	84	91949	25.0	22.5	
82 1,3-Dichloropropane	76	7.815	7.815	0.000	89	133599	25.0	24.2	
80 2-Hexanone	43	7.882	7.876	0.006	77	299158	125.0	107.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	96	125397	25.0	21.3	
83 Chlorodibromomethane	129	8.053	8.053	0.000	85	81255	25.0	24.9	
84 Ethylene Dibromide	107	8.162	8.162	0.000	98	77900	25.0	24.3	
146 1-Chlorohexane	55	8.588	8.588	0.000	96	80633	25.0	24.0	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	79	133129	25.0	25.7	
87 Chlorobenzene	112	8.643	8.643	0.000	87	238663	25.0	23.3	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	74	124555	25.0	25.4	
88 Ethylbenzene	91	8.734	8.734	0.000	93	372745	25.0	22.1	
89 1,1,1,2-Tetrachloroethane	131	8.734	8.740	-0.006	38	84211	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	151632	25.0	22.1	
91 o-Xylene	106	9.282	9.282	0.000	96	152535	25.0	22.6	
92 Styrene	104	9.312	9.312	0.000	92	250422	25.0	23.0	
95 Bromoform	173	9.555	9.555	0.000	94	50852	25.0	25.7	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	93	138724	25.0	25.6	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	387216	25.0	24.0	
96 Cyclohexanone	55	9.823	9.823	0.000	87	34861	250.0	208.5	
101 Bromobenzene	156	10.005	10.006	-0.001	91	103557	25.0	23.9	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	87	98265	25.0	25.7	
100 1,2,3-Trichloropropane	110	10.085	10.085	0.000	47	32117	25.0	23.8	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	438104	25.0	23.5	
98 trans-1,4-Dichloro-2-buten	53	10.097	10.091	0.006	37	23507	25.0	19.8	
103 2-Chlorotoluene	126	10.188	10.188	0.000	96	93446	25.0	23.5	
104 3-Chlorotoluene	126	10.249	10.249	0.000	98	108769	25.0	26.8	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	93	336113	25.0	24.4	
105 4-Chlorotoluene	126	10.297	10.298	-0.001	68	110842	25.0	26.8	
106 tert-Butylbenzene	134	10.571	10.571	0.000	90	76993	25.0	24.0	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	51	356694	25.0	25.0	
108 Pentachloroethane	167	10.626	10.632	-0.006	36	61279	25.0	34.6	
109 sec-Butylbenzene	105	10.778	10.778	0.000	93	421202	25.0	23.9	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	96	376792	25.0	24.3	
111 1,3-Dichlorobenzene	146	10.918	10.918	0.000	71	204813	25.0	25.0	
114 Dicyclopentadiene	66	10.985	10.985	0.000	87	406709	25.0	25.9	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	207496	25.0	24.4	
112 1,2,3-Trimethylbenzene	105	11.027	11.028	-0.001	62	387643	25.0	26.3	
150 Benzyl chloride	126	11.143	11.143	0.000	97	43188	25.0	26.5	
115 n-Butylbenzene	91	11.301	11.301	0.000	94	331052	25.0	25.1	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	200377	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.074	-0.006	69	18429	25.0	25.7	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	167241	25.0	25.8	
119 1,2,4-Trichlorobenzene	180	12.743	12.749	-0.006	92	155018	25.0	25.6	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	91	70153	25.0	24.3	
121 Naphthalene	128	12.962	12.962	0.000	96	365222	25.0	24.2	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	94	141803	25.0	25.1	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	88	223112	25.0	23.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00192	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

Operator ID: NEA

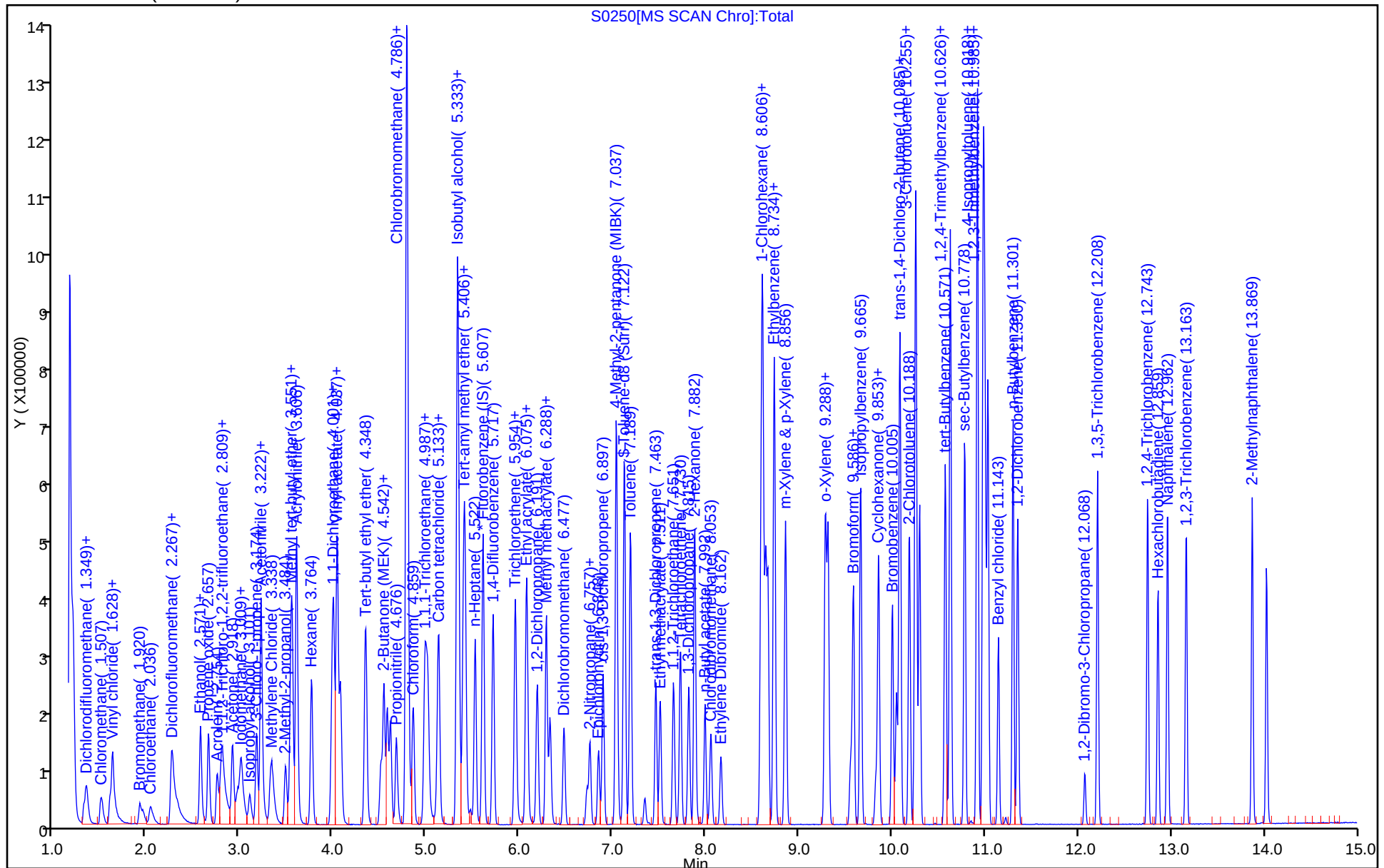
Worklist Smp#: 5

Client ID:

ALS Bottle#: 5

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58820.b\S0250.D

Injection Date: 02-Dec-2016 10:12:30

Instrument ID: HP5973S

Lims ID: LCS

Client ID:

Operator ID: NEA

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

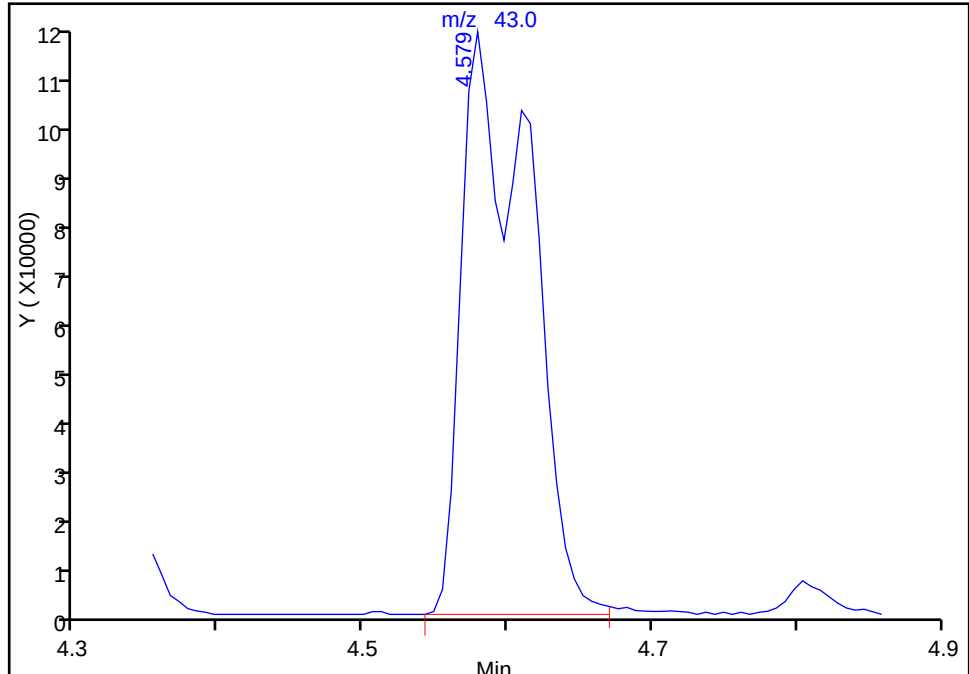
Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

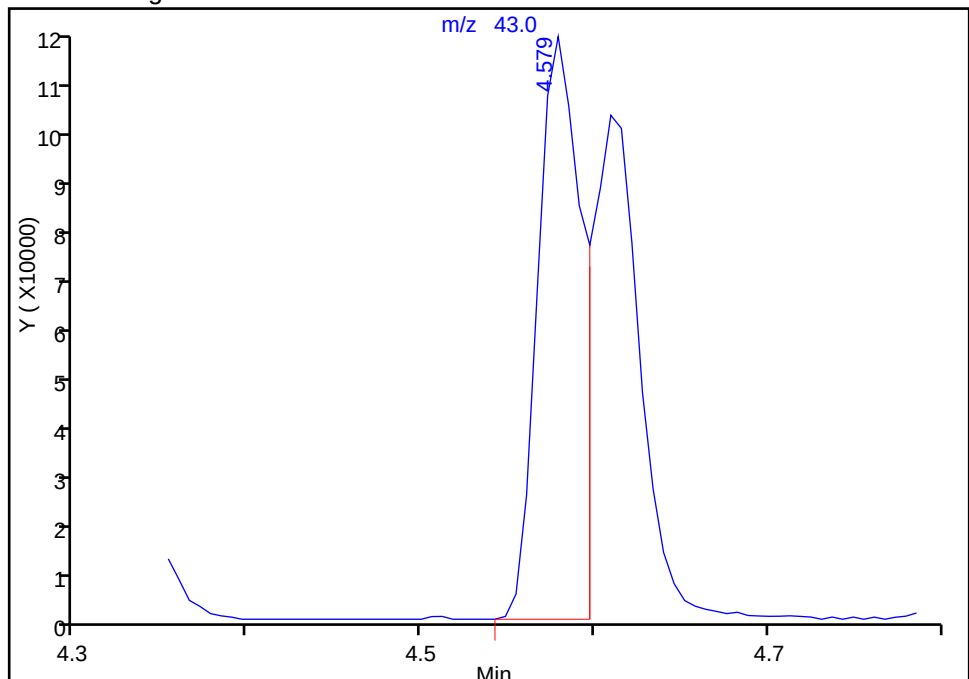
RT: 4.58
Area: 377378
Amount: 196.5054
Amount Units: ug/L

Processing Integration Results



RT: 4.58
Area: 209530
Amount: 109.1049
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 02-Dec-2016 18:31:52

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-334536/4

Matrix: Water Lab File ID: S0276.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 20:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.1		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.3		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.1		1.0	0.23
75-34-3	1,1-Dichloroethane	24.1		1.0	0.38
75-35-4	1,1-Dichloroethene	25.1		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.4		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	25.3		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	25.5		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.1		1.0	0.39
106-93-4	1,2-Dibromoethane	24.4		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.9		1.0	0.79
107-06-2	1,2-Dichloroethane	22.7		1.0	0.21
78-87-5	1,2-Dichloropropane	24.9		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	25.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.4		1.0	0.84
78-93-3	2-Butanone (MEK)	117		10	1.3
591-78-6	2-Hexanone	105		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	2.1
67-64-1	Acetone	116		10	3.0
71-43-2	Benzene	24.2		1.0	0.41
75-27-4	Bromodichloromethane	24.2		1.0	0.39
75-25-2	Bromoform	25.2		1.0	0.26
74-83-9	Bromomethane	22.3		1.0	0.69
75-15-0	Carbon disulfide	21.8		1.0	0.19
56-23-5	Carbon tetrachloride	25.9		1.0	0.27
108-90-7	Chlorobenzene	24.0		1.0	0.75
75-00-3	Chloroethane	26.5		1.0	0.32
67-66-3	Chloroform	24.3		1.0	0.34
74-87-3	Chloromethane	19.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.8		1.0	0.36
110-82-7	Cyclohexane	24.6		1.0	0.18
124-48-1	Dibromochloromethane	25.4		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-334536/4
 Matrix: Water Lab File ID: S0276.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/02/2016 20:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	15.4		1.0	0.68
100-41-4	Ethylbenzene	23.6		1.0	0.74
98-82-8	Isopropylbenzene	24.8		1.0	0.79
79-20-9	Methyl acetate	108		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	25.1		1.0	0.16
75-09-2	Methylene Chloride	22.6		1.0	0.44
100-42-5	Styrene	23.5		1.0	0.73
127-18-4	Tetrachloroethene	24.8		1.0	0.36
108-88-3	Toluene	23.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.9		1.0	0.37
79-01-6	Trichloroethene	24.8		1.0	0.46
75-69-4	Trichlorofluoromethane	23.5		1.0	0.88
75-01-4	Vinyl chloride	23.8		1.0	0.90
1330-20-7	Xylenes, Total	46.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0276.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 02-Dec-2016 20:36:30 ALS Bottle#: 31 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0058844-004
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:03:07 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: o'briens

Date: 02-Dec-2016 22:13:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	80519	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	165913	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	52	159824	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	82	97698	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	63840	25.0	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	91	405390	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	88	123509	25.0	22.5	
10 Dichlorodifluoromethane	85	1.318	1.318	0.000	82	47919	25.0	15.4	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	97	91065	25.0	23.4	
12 Chloromethane	50	1.507	1.501	0.006	88	67101	25.0	19.5	
13 Vinyl chloride	62	1.604	1.598	0.006	75	76554	25.0	23.8	
151 Butadiene	54	1.629	1.628	0.000	89	77129	25.0	23.9	
14 Bromomethane	94	1.951	1.920	0.031	78	43893	25.0	22.3	
15 Chloroethane	64	2.036	2.042	-0.006	95	52701	25.0	26.5	
16 Dichlorofluoromethane	67	2.267	2.267	0.000	79	138167	25.0	24.2	
17 Trichlorofluoromethane	101	2.267	2.267	0.000	57	106631	25.0	23.5	
148 Ethanol	45	2.571	2.565	0.006	85	100534	1000.0	3017.3	
18 Ethyl ether	59	2.571	2.565	0.006	90	80283	25.0	25.8	
19 Propene oxide	58	2.657	2.663	-0.006	95	114313	NC	NC	
20 Acrolein	56	2.748	2.748	0.000	91	67720	125.0	106.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.797	2.797	0.001	61	73091	25.0	23.3	
22 1,1-Dichloroethene	96	2.809	2.803	0.006	84	77859	25.0	25.1	
23 Acetone	43	2.912	2.912	0.000	99	156388	125.0	115.7	
25 Iodomethane	142	2.979	2.979	0.000	97	113546	25.0	23.2	
26 Carbon disulfide	76	3.016	3.009	0.007	97	225552	25.0	21.8	
24 Isopropyl alcohol	45	3.101	3.101	0.000	89	60573	250.0	205.6	
28 3-Chloro-1-propene	41	3.174	3.168	0.006	88	99175	25.0	20.6	
27 Methyl acetate	43	3.222	3.216	0.006	97	326814	125.0	107.9	
29 Acetonitrile	40	3.222	3.222	0.000	10	64480	250.0	216.7	
30 Methylene Chloride	84	3.344	3.338	0.006	77	85471	25.0	22.6	
31 2-Methyl-2-propanol	59	3.484	3.478	0.006	97	110768	250.0	214.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	3.539	3.539	0.000	84	260994	25.0	23.5	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	88	83304	25.0	24.4	
33 Acrylonitrile	53	3.600	3.600	0.000	98	354106	250.0	229.6	
35 Hexane	57	3.764	3.764	0.000	90	132721	25.0	24.1	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	85	150076	25.0	24.1	
36 Isopropyl ether	45	4.001	4.001	0.000	93	272571	25.0	24.3	
37 Vinyl acetate	43	4.038	4.031	0.007	97	398612	50.0	53.4	M
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	75	150797	25.0	27.5	
38 1,1-Dimethoxyethane	75	4.074	4.080	-0.006	62	80240	125.0	111.3	
41 Tert-butyl ethyl ether	59	4.342	4.348	-0.006	98	288225	25.0	24.5	
44 2,2-Dichloropropane	77	4.512	4.506	0.006	89	73174	25.0	26.4	
45 cis-1,2-Dichloroethene	96	4.543	4.536	0.007	67	96377	25.0	25.2	
43 2-Butanone (MEK)	43	4.573	4.573	0.000	98	225457	125.0	117.2	M
42 Ethyl acetate	43	4.609	4.615	-0.006	49	194230	50.0	51.0	M
46 Propionitrile	54	4.676	4.676	0.000	98	140687	250.0	221.1	
48 Chlorobromomethane	128	4.780	4.774	0.006	47	48941	25.0	25.1	
47 Methacrylonitrile	41	4.786	4.792	-0.006	91	581933	250.0	234.6	
49 Tetrahydrofuran	42	4.804	4.804	0.000	35	73332	50.0	55.3	
50 Chloroform	83	4.859	4.853	0.006	54	146229	25.0	24.3	
51 1,1,1-Trichloroethane	97	4.981	4.974	0.007	91	103150	25.0	24.8	
52 Cyclohexane	56	4.993	4.987	0.006	88	144742	25.0	24.6	
55 Carbon tetrachloride	117	5.120	5.114	0.006	79	104101	25.0	25.9	
54 1,1-Dichloropropene	75	5.133	5.127	0.006	94	115337	25.0	24.9	
53 Isobutyl alcohol	43	5.333	5.327	0.006	59	150482	625.0	767.3	
57 Benzene	78	5.333	5.333	0.000	95	345405	25.0	24.2	
152 Isooctane	57	5.339	5.339	0.000	79	339424	25.0	31.5	
147 t-Amyl alcohol	59	5.394	5.394	0.000	6	93791	250.0	214.9	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	61	120456	25.0	22.7	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	79	308370	25.0	23.5	
59 n-Heptane	43	5.522	5.522	0.000	92	127785	25.0	22.4	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	281999	25.0	25.3	
62 Trichloroethene	95	5.948	5.948	0.000	91	89357	25.0	24.8	
60 n-Butanol	56	5.954	5.960	-0.006	65	72912	625.0	534.0	
142 Ethyl acrylate	55	6.070	6.069	0.001	94	231711	25.0	44.7	
64 Methylcyclohexane	83	6.076	6.076	0.000	83	149598	25.0	25.1	
65 1,2-Dichloropropane	63	6.185	6.185	0.000	93	87742	25.0	24.9	
63 Methyl methacrylate	41	6.282	6.288	-0.006	89	154595	50.0	43.2	
67 Dibromomethane	93	6.325	6.325	0.000	80	52104	25.0	24.4	
66 1,4-Dioxane	88	6.337	6.337	0.000	43	20829	500.0	417.2	
68 Dichlorobromomethane	83	6.477	6.477	0.000	97	104636	25.0	24.2	
70 2-Nitropropane	43	6.751	6.726	0.025	39	79242	50.0	85.1	
69 2-Chloroethyl vinyl ether	63	6.757	6.751	0.006	75	57250	25.0	24.8	
71 Epichlorohydrin	57	6.842	6.848	-0.006	96	100738	250.0	228.7	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	80	142703	25.0	25.8	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	94	411825	125.0	106.6	
74 Toluene	92	7.189	7.189	0.000	94	225948	25.0	23.9	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	89	125181	25.0	24.9	
75 Ethyl methacrylate	69	7.511	7.505	0.006	69	105899	25.0	24.3	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	84	61874	25.0	24.1	
81 Tetrachloroethene	166	7.724	7.724	0.000	84	104691	25.0	24.8	
82 1,3-Dichloropropane	76	7.816	7.815	0.001	90	138445	25.0	24.3	
80 2-Hexanone	43	7.876	7.876	0.000	70	300834	125.0	105.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	95	127558	25.0	21.6	
83 Chlorodibromomethane	129	8.053	8.053	0.000	88	85430	25.0	25.4	
84 Ethylene Dibromide	107	8.162	8.162	0.000	95	80877	25.0	24.4	
146 1-Chlorohexane	55	8.588	8.588	0.000	96	89181	25.0	25.9	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	82	146630	25.0	27.7	
87 Chlorobenzene	112	8.643	8.643	0.000	86	253469	25.0	24.0	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	75	139352	25.0	27.9	
88 Ethylbenzene	91	8.734	8.734	0.000	92	410344	25.0	23.6	
89 1,1,1,2-Tetrachloroethane	131	8.734	8.734	0.000	33	87124	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	165094	25.0	23.3	
91 o-Xylene	106	9.282	9.282	0.000	96	160129	25.0	23.0	
92 Styrene	104	9.312	9.312	0.000	92	263346	25.0	23.5	
95 Bromoform	173	9.555	9.555	0.000	96	51529	25.0	25.2	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	94	146057	25.0	26.4	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	408755	25.0	24.8	
96 Cyclohexanone	55	9.823	9.823	0.000	88	32936	250.0	193.0	
101 Bromobenzene	156	10.006	10.006	0.000	91	105415	25.0	23.8	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	97800	25.0	25.1	
100 1,2,3-Trichloropropane	110	10.085	10.079	0.006	41	31990	25.0	23.2	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	467729	25.0	24.5	
98 trans-1,4-Dichloro-2-buten	53	10.091	10.091	0.000	36	21514	25.0	17.9	
103 2-Chlorotoluene	126	10.188	10.188	0.000	96	98227	25.0	24.2	
104 3-Chlorotoluene	126	10.249	10.249	0.000	98	111293	25.0	26.8	
102 1,3,5-Trimethylbenzene	105	10.255	10.261	-0.006	89	351056	25.0	24.9	
105 4-Chlorotoluene	126	10.298	10.298	0.000	57	114394	25.0	27.1	
106 tert-Butylbenzene	134	10.571	10.571	0.000	91	84366	25.0	25.8	
108 Pentachloroethane	167	10.632	10.626	0.006	38	62946	25.0	34.8	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	44	370538	25.0	25.5	
109 sec-Butylbenzene	105	10.778	10.778	0.000	93	462335	25.0	25.7	
111 1,3-Dichlorobenzene	146	10.918	10.912	0.006	69	214247	25.0	25.6	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	96	408377	25.0	25.8	
114 Dicyclopentadiene	66	10.985	10.985	0.000	86	438222	25.0	27.3	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	220307	25.0	25.4	
112 1,2,3-Trimethylbenzene	105	11.028	11.027	0.001	60	396715	25.0	26.4	
150 Benzyl chloride	126	11.143	11.143	0.000	97	40896	25.0	24.3	
115 n-Butylbenzene	91	11.301	11.301	0.000	96	353003	25.0	26.2	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	93	204624	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	68	18348	25.0	25.1	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	97	171359	25.0	25.9	
119 1,2,4-Trichlorobenzene	180	12.743	12.749	-0.006	90	156358	25.0	25.3	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	90	74078	25.0	25.1	
121 Naphthalene	128	12.956	12.962	-0.006	97	376100	25.0	24.4	
122 1,2,3-Trichlorobenzene	180	13.163	13.163	0.000	94	142522	25.0	24.7	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	89	238532	25.0	24.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00193	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161202-58844.b\\S0276.D

Injection Date: 02-Dec-2016 20:36:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

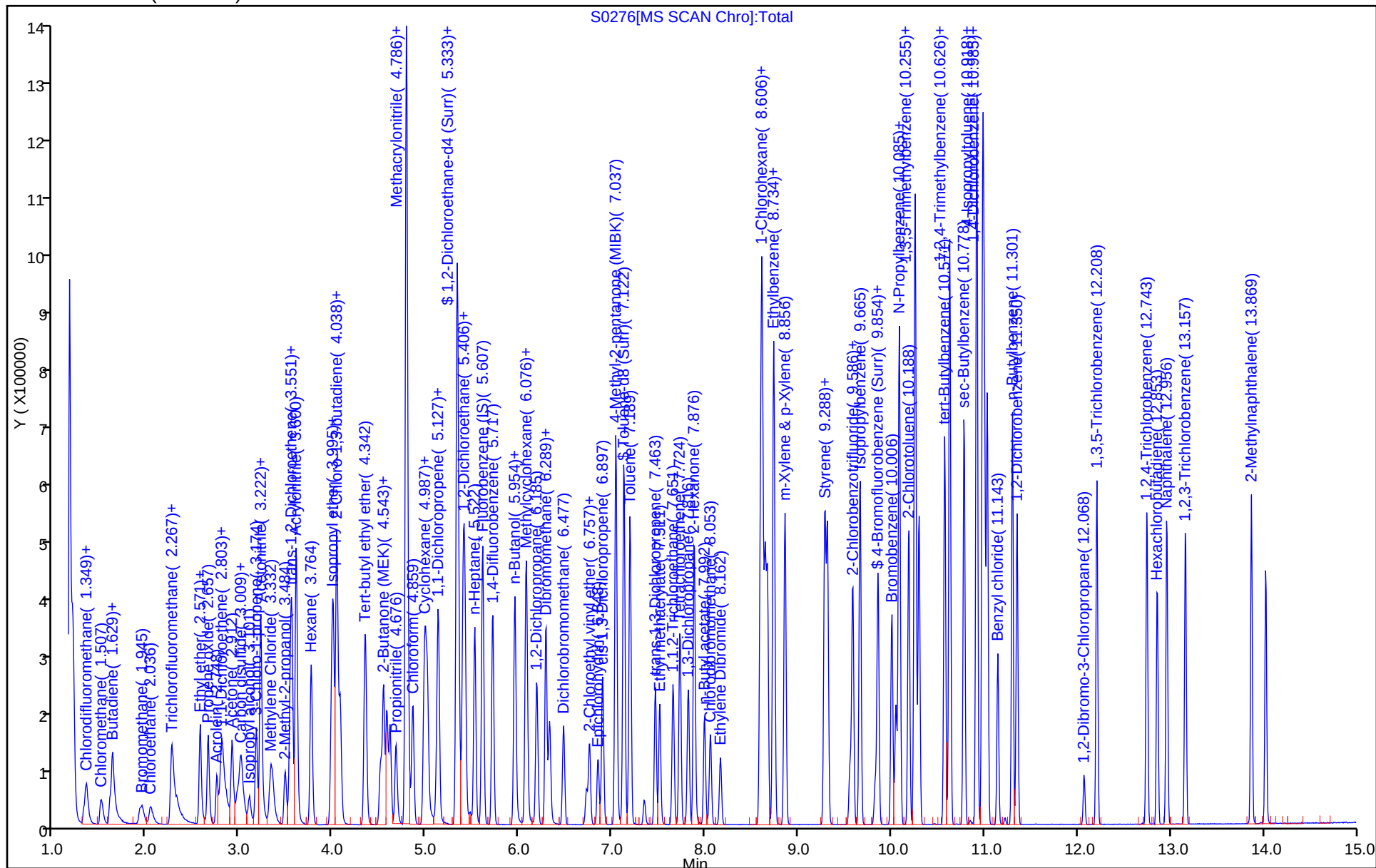
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0276.D

Injection Date: 02-Dec-2016 20:36:30

Instrument ID: HP5973S

Lims ID: LCS

Client ID:

Operator ID: SO

ALS Bottle#:

31

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

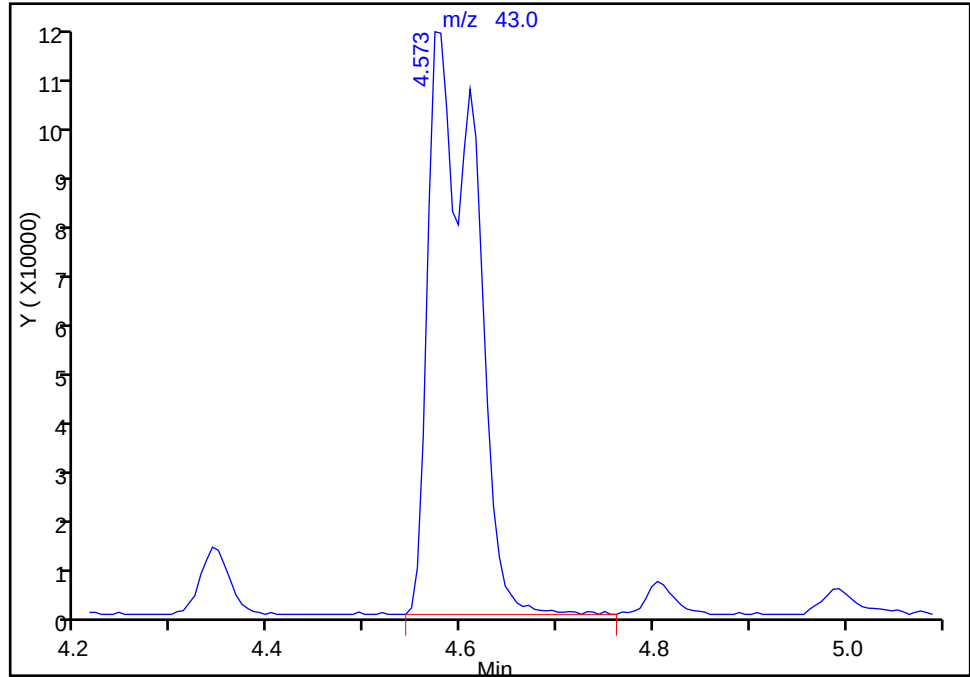
Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

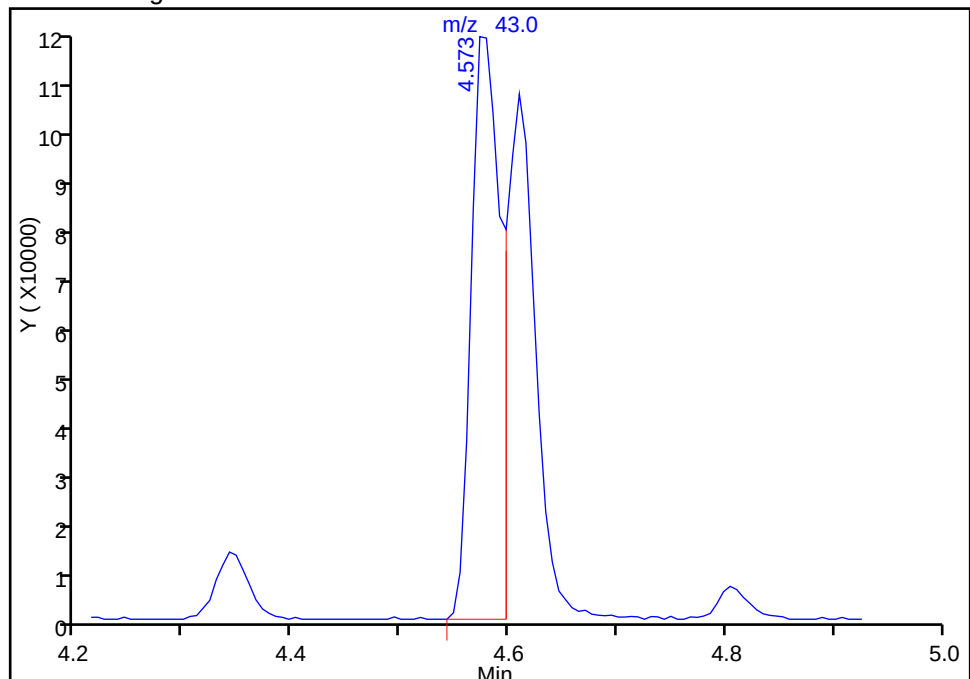
RT: 4.57
Area: 391780
Amount: 203.6905
Amount Units: ug/L

Processing Integration Results



RT: 4.57
Area: 225457
Amount: 117.2175
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 02-Dec-2016 21:13:17

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-334565/7

Matrix: Water Lab File ID: S0307.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 11:03

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.8		1.0	0.23
75-34-3	1,1-Dichloroethane	24.6		1.0	0.38
75-35-4	1,1-Dichloroethene	25.4		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	27.2		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	26.2		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	25.9		1.0	0.39
106-93-4	1,2-Dibromoethane	24.8		1.0	0.73
95-50-1	1,2-Dichlorobenzene	26.2		1.0	0.79
107-06-2	1,2-Dichloroethane	23.0		1.0	0.21
78-87-5	1,2-Dichloropropane	25.1		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	26.2		1.0	0.77
541-73-1	1,3-Dichlorobenzene	26.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.9		1.0	0.84
78-93-3	2-Butanone (MEK)	110		10	1.3
591-78-6	2-Hexanone	105		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	2.1
67-64-1	Acetone	113		10	3.0
71-43-2	Benzene	25.0		1.0	0.41
75-27-4	Bromodichloromethane	24.4		1.0	0.39
75-25-2	Bromoform	27.1		1.0	0.26
74-83-9	Bromomethane	21.5		1.0	0.69
75-15-0	Carbon disulfide	21.7		1.0	0.19
56-23-5	Carbon tetrachloride	26.5		1.0	0.27
108-90-7	Chlorobenzene	25.0		1.0	0.75
75-00-3	Chloroethane	29.7		1.0	0.32
67-66-3	Chloroform	24.5		1.0	0.34
74-87-3	Chloromethane	27.3		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.0		1.0	0.36
110-82-7	Cyclohexane	24.8		1.0	0.18
124-48-1	Dibromochloromethane	26.1		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-334565/7
 Matrix: Water Lab File ID: S0307.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 11:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334565 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	28.1		1.0	0.68
100-41-4	Ethylbenzene	24.5		1.0	0.74
98-82-8	Isopropylbenzene	25.8		1.0	0.79
79-20-9	Methyl acetate	106		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.3		1.0	0.16
108-87-2	Methylcyclohexane	25.7		1.0	0.16
75-09-2	Methylene Chloride	23.4		1.0	0.44
100-42-5	Styrene	24.4		1.0	0.73
127-18-4	Tetrachloroethene	25.4		1.0	0.36
108-88-3	Toluene	24.8		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.9		1.0	0.37
79-01-6	Trichloroethene	24.9		1.0	0.46
75-69-4	Trichlorofluoromethane	25.6		1.0	0.88
75-01-4	Vinyl chloride	30.2		1.0	0.90
1330-20-7	Xylenes, Total	47.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0307.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Dec-2016 11:03:30 ALS Bottle#: 62 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0058850-007
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 12:09:27 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 12:09:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	80973	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	162186	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	49	159154	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.017	-0.006	82	94600	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	63121	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	91	398084	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	124111	25.0	23.1	
10 Dichlorodifluoromethane	85	1.324	1.324	0.000	83	87824	25.0	28.1	
11 Chlorodifluoromethane	51	1.349	1.349	0.000	72	90151	25.0	23.0	
12 Chloromethane	50	1.507	1.501	0.006	88	94755	25.0	27.3	
13 Vinyl chloride	62	1.604	1.604	0.000	81	97509	25.0	30.2	
151 Butadiene	54	1.628	1.628	0.000	89	95351	25.0	29.2	
14 Bromomethane	94	1.920	1.920	0.000	84	42562	25.0	21.5	M
15 Chloroethane	64	2.024	2.024	0.000	92	59354	25.0	29.7	
16 Dichlorofluoromethane	67	2.267	2.261	0.006	80	148150	25.0	25.8	
17 Trichlorofluoromethane	101	2.267	2.267	0.000	57	117178	25.0	25.6	
148 Ethanol	45	2.571	2.571	0.000	87	90813	1000.0	2707.5	
18 Ethyl ether	59	2.571	2.571	0.000	89	79880	25.0	25.5	
19 Propene oxide	58	2.657	2.663	-0.006	95	116766	NC	NC	
20 Acrolein	56	2.748	2.748	0.000	92	70117	125.0	109.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.797	-0.006	69	73933	25.0	23.4	
22 1,1-Dichloroethene	96	2.803	2.809	-0.006	84	79388	25.0	25.4	
23 Acetone	43	2.912	2.912	0.000	99	153089	125.0	112.6	
25 Iodomethane	142	2.973	2.979	-0.006	96	117633	25.0	23.9	
26 Carbon disulfide	76	3.009	3.009	0.000	98	226220	25.0	21.7	
24 Isopropyl alcohol	45	3.107	3.101	0.006	89	60020	250.0	202.6	
28 3-Chloro-1-propene	41	3.174	3.174	0.000	89	107073	25.0	22.1	
27 Methyl acetate	43	3.222	3.222	0.000	95	322375	125.0	105.8	
29 Acetonitrile	40	3.228	3.228	0.000	16	51812	250.0	173.2	
30 Methylene Chloride	84	3.338	3.338	0.000	80	88795	25.0	23.4	
31 2-Methyl-2-propanol	59	3.484	3.490	-0.006	98	105101	250.0	202.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	3.545	3.539	0.006	85	259552	25.0	23.3	
34 trans-1,2-Dichloroethene	96	3.557	3.551	0.006	93	85961	25.0	25.0	
33 Acrylonitrile	53	3.606	3.600	0.006	97	349635	250.0	225.4	
35 Hexane	57	3.764	3.764	0.000	89	133398	25.0	24.1	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	96	153727	25.0	24.6	
36 Isopropyl ether	45	4.001	4.001	0.000	93	277781	25.0	24.6	
37 Vinyl acetate	43	4.037	4.031	0.006	97	389467	50.0	51.9	M
40 2-Chloro-1,3-butadiene	53	4.044	4.044	0.000	62	149643	25.0	27.1	
38 1,1-Dimethoxyethane	75	4.074	4.080	-0.006	64	81836	125.0	112.8	
41 Tert-butyl ethyl ether	59	4.348	4.348	0.000	97	292202	25.0	24.7	
44 2,2-Dichloropropane	77	4.512	4.506	0.006	89	75414	25.0	27.1	
45 cis-1,2-Dichloroethene	96	4.542	4.542	0.000	65	98599	25.0	25.6	
43 2-Butanone (MEK)	43	4.579	4.579	0.000	93	213270	125.0	110.3	M
42 Ethyl acetate	43	4.609	4.615	-0.006	49	197030	50.0	51.4	M
46 Propionitrile	54	4.676	4.676	0.000	98	139260	250.0	217.6	
48 Chlorobromomethane	128	4.780	4.780	0.000	44	47853	25.0	24.4	
47 Methacrylonitrile	41	4.786	4.786	0.000	91	582044	250.0	233.3	
49 Tetrahydrofuran	42	4.804	4.810	-0.006	31	71668	50.0	53.8	
50 Chloroform	83	4.859	4.853	0.006	56	148014	25.0	24.5	
51 1,1,1-Trichloroethane	97	4.980	4.981	0.000	95	105988	25.0	25.3	
52 Cyclohexane	56	4.993	4.987	0.006	87	146372	25.0	24.8	
55 Carbon tetrachloride	117	5.120	5.120	0.000	80	107219	25.0	26.5	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	96	117673	25.0	25.3	
57 Benzene	78	5.339	5.333	0.006	97	358769	25.0	25.0	
53 Isobutyl alcohol	43	5.333	5.333	0.000	60	153968	625.0	780.6	
152 Isooctane	57	5.339	5.339	0.000	78	339502	25.0	31.3	
147 t-Amyl alcohol	59	5.394	5.394	0.000	30	92813	250.0	211.4	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	64	122667	25.0	23.0	
56 Tert-amyl methyl ether	73	5.412	5.412	0.000	79	318077	25.0	24.1	
59 n-Heptane	43	5.522	5.522	0.000	91	126341	25.0	22.1	
1 1,4-Difluorobenzene	114	5.717	5.717	0.000	94	283643	25.0	25.3	
62 Trichloroethene	95	5.948	5.948	0.000	92	90344	25.0	24.9	
60 n-Butanol	56	5.960	5.960	0.000	84	73192	625.0	533.0	
142 Ethyl acrylate	55	6.069	6.069	0.000	94	232030	25.0	44.5	
64 Methylcyclohexane	83	6.075	6.076	-0.001	83	153727	25.0	25.7	
65 1,2-Dichloropropane	63	6.185	6.185	0.000	93	88939	25.0	25.1	
63 Methyl methacrylate	41	6.288	6.288	0.000	88	147361	50.0	41.0	
67 Dibromomethane	93	6.325	6.325	0.000	86	52533	25.0	24.5	
66 1,4-Dioxane	88	6.337	6.331	0.006	21	17973	500.0	368.3	
68 Dichlorobromomethane	83	6.477	6.477	0.000	90	106081	25.0	24.4	
70 2-Nitropropane	43	6.751	6.720	0.031	41	78978	50.0	85.2	
69 2-Chloroethyl vinyl ether	63	6.757	6.751	0.006	72	57703	25.0	24.8	
71 Epichlorohydrin	57	6.848	6.848	0.000	97	98411	250.0	222.2	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	80	144929	25.0	26.0	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	95	406676	125.0	107.7	
74 Toluene	92	7.189	7.189	0.000	94	229739	25.0	24.8	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	91	127225	25.0	25.9	
75 Ethyl methacrylate	69	7.511	7.511	0.000	68	105995	25.0	24.9	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	87	64816	25.0	25.8	
81 Tetrachloroethene	166	7.730	7.724	0.006	85	104585	25.0	25.4	
82 1,3-Dichloropropane	76	7.815	7.815	0.000	90	135516	25.0	24.4	
80 2-Hexanone	43	7.882	7.876	0.006	77	293229	125.0	104.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.992	7.992	0.000	96	122584	25.0	20.7	
83 Chlorodibromomethane	129	8.053	8.053	0.000	86	85905	25.0	26.1	
84 Ethylene Dibromide	107	8.162	8.162	0.000	96	80326	25.0	24.8	
146 1-Chlorohexane	55	8.588	8.588	0.000	95	89113	25.0	26.4	
85 3-Chlorobenzotrifluoride	180	8.606	8.606	0.000	81	145375	25.0	27.6	
87 Chlorobenzene	112	8.643	8.643	0.000	86	257556	25.0	25.0	
86 4-Chlorobenzotrifluoride	180	8.667	8.667	0.000	69	138670	25.0	27.9	
88 Ethylbenzene	91	8.734	8.734	0.000	96	416795	25.0	24.5	
89 1,1,1,2-Tetrachloroethane	131	8.734	8.734	0.000	35	90381	25.0	27.4	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	164957	25.0	23.8	
91 o-Xylene	106	9.282	9.282	0.000	96	161553	25.0	23.7	
92 Styrene	104	9.312	9.312	0.000	92	267809	25.0	24.4	
95 Bromoform	173	9.555	9.555	0.000	96	54085	25.0	27.1	
93 2-Chlorobenzotrifluoride	180	9.586	9.586	0.000	94	148508	25.0	27.0	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	423584	25.0	25.8	
96 Cyclohexanone	55	9.823	9.823	0.000	85	33716	250.0	198.4	
101 Bromobenzene	156	10.005	10.006	-0.001	91	110842	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	99117	25.0	25.5	
100 1,2,3-Trichloropropane	110	10.085	10.079	0.006	41	32862	25.0	24.0	
99 N-Propylbenzene	91	10.085	10.085	0.000	98	487039	25.0	25.7	
98 trans-1,4-Dichloro-2-buten	53	10.091	10.091	0.000	36	25738	25.0	21.3	
103 2-Chlorotoluene	126	10.188	10.188	0.000	97	101662	25.0	25.2	
104 3-Chlorotoluene	126	10.249	10.249	0.000	98	113673	25.0	27.5	
102 1,3,5-Trimethylbenzene	105	10.255	10.255	0.000	90	367809	25.0	26.2	
105 4-Chlorotoluene	126	10.297	10.298	-0.001	79	117206	25.0	27.8	
106 tert-Butylbenzene	134	10.571	10.571	0.000	89	85841	25.0	26.3	
108 Pentachloroethane	167	10.632	10.626	0.006	42	65069	25.0	36.1	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	32	376921	25.0	26.0	
109 sec-Butylbenzene	105	10.778	10.778	0.000	93	469833	25.0	26.2	
110 4-Isopropyltoluene	119	10.918	10.918	0.000	97	422887	25.0	26.8	
111 1,3-Dichlorobenzene	146	10.912	10.918	-0.006	75	219400	25.0	26.4	
114 Dicyclopentadiene	66	10.985	10.985	0.000	86	446100	25.0	27.9	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	223851	25.0	25.9	
112 1,2,3-Trimethylbenzene	105	11.028	11.028	0.000	62	406363	25.0	27.2	
150 Benzyl chloride	126	11.143	11.143	0.000	98	43457	25.0	26.4	
115 n-Butylbenzene	91	11.301	11.301	0.000	94	362941	25.0	27.0	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	93	214162	25.0	26.2	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	65	18892	25.0	25.9	
118 1,3,5-Trichlorobenzene	180	12.208	12.208	0.000	96	175343	25.0	26.6	
119 1,2,4-Trichlorobenzene	180	12.743	12.743	0.000	92	161111	25.0	26.2	
120 Hexachlorobutadiene	225	12.859	12.859	0.000	92	75473	25.0	25.7	
121 Naphthalene	128	12.956	12.962	-0.006	97	376221	25.0	24.5	
122 1,2,3-Trichlorobenzene	180	13.157	13.163	-0.006	93	145533	25.0	25.3	
149 2-Methylnaphthalene	142	13.869	13.869	0.000	90	220469	25.0	23.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00193	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20161203-58850.b\\S0307.D

Injection Date: 03-Dec-2016 11:03:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: LCS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

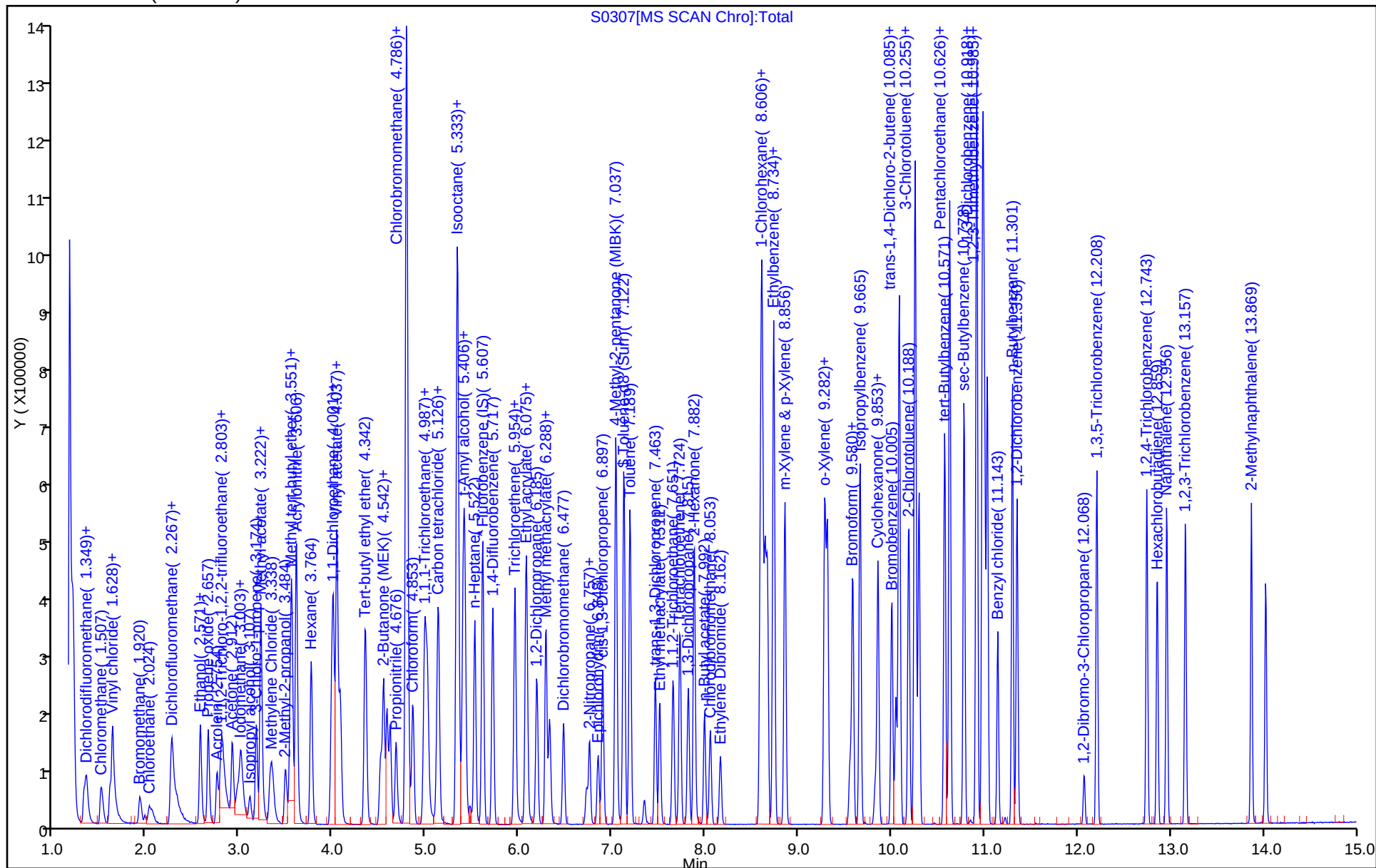
Dil. Factor: 1.0000

ALS Bottle#: 62

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0307.D

Injection Date: 03-Dec-2016 11:03:30

Instrument ID: HP5973S

Lims ID: LCS

Client ID:

Operator ID: GTG

ALS Bottle#:

62

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

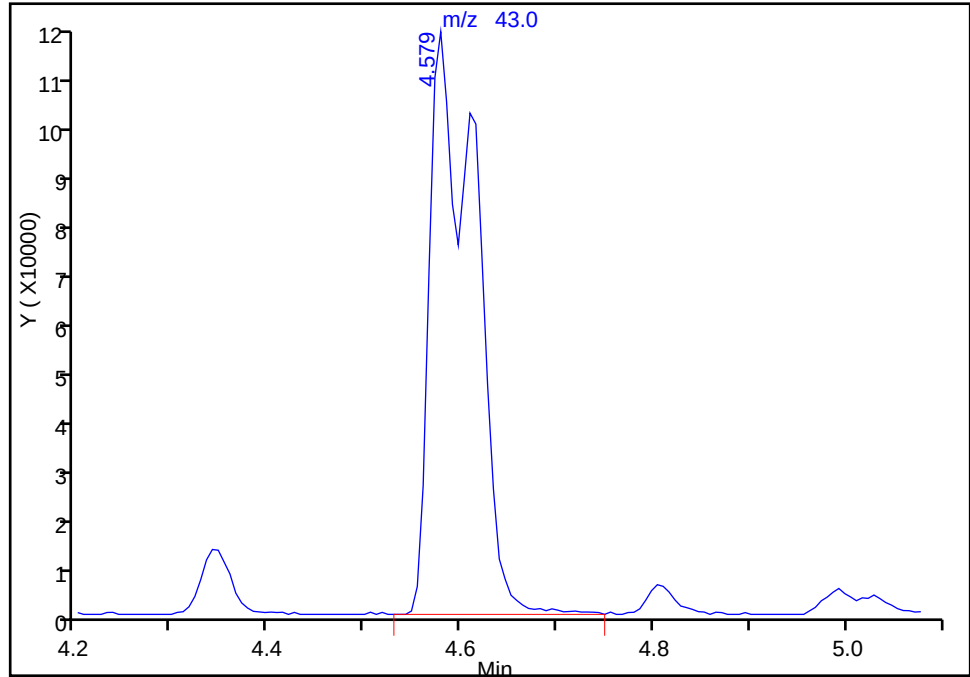
MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

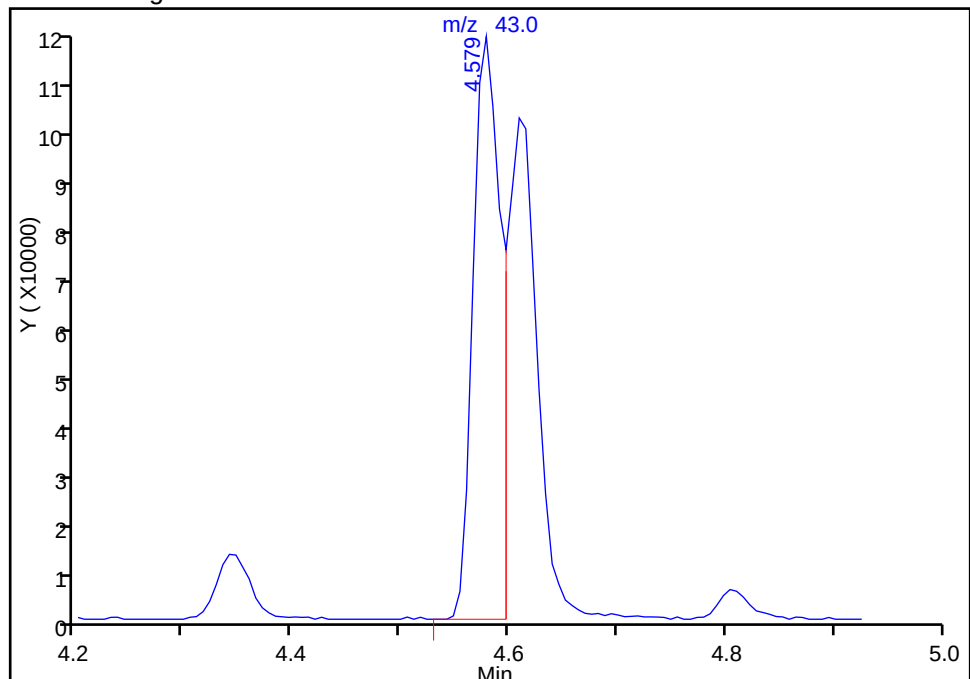
RT: 4.58
Area: 383259
Amount: 198.1432
Amount Units: ug/L

Processing Integration Results



RT: 4.58
Area: 213270
Amount: 110.2596
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 11:35:35

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161203-58850.b\S0307.D

Injection Date: 03-Dec-2016 11:03:30

Instrument ID: HP5973S

Lims ID: LCS

Client ID:

Operator ID: GTG

ALS Bottle#:

62

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

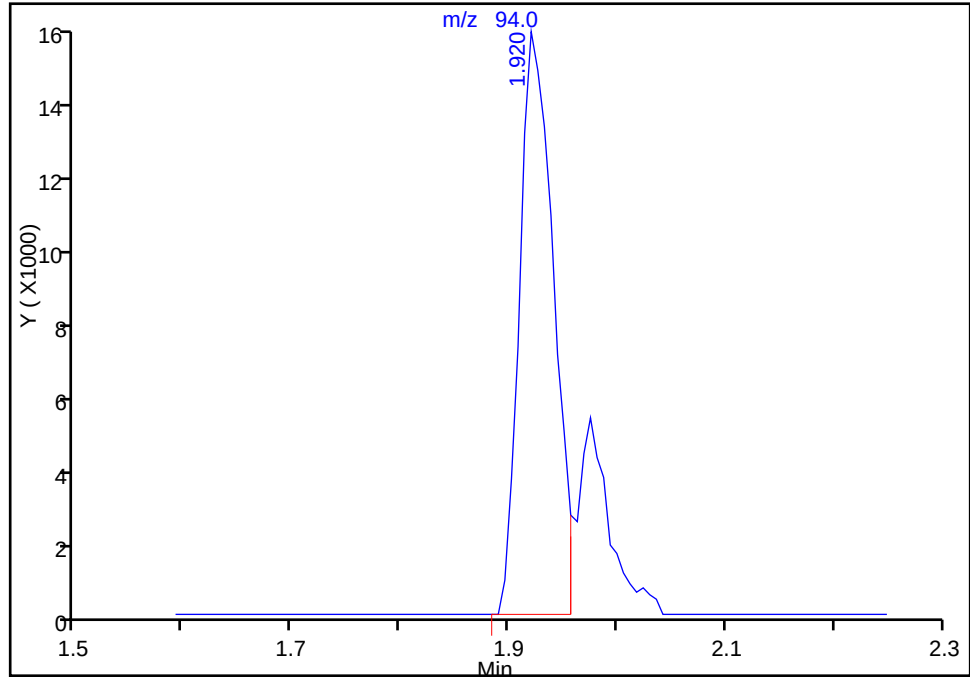
Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

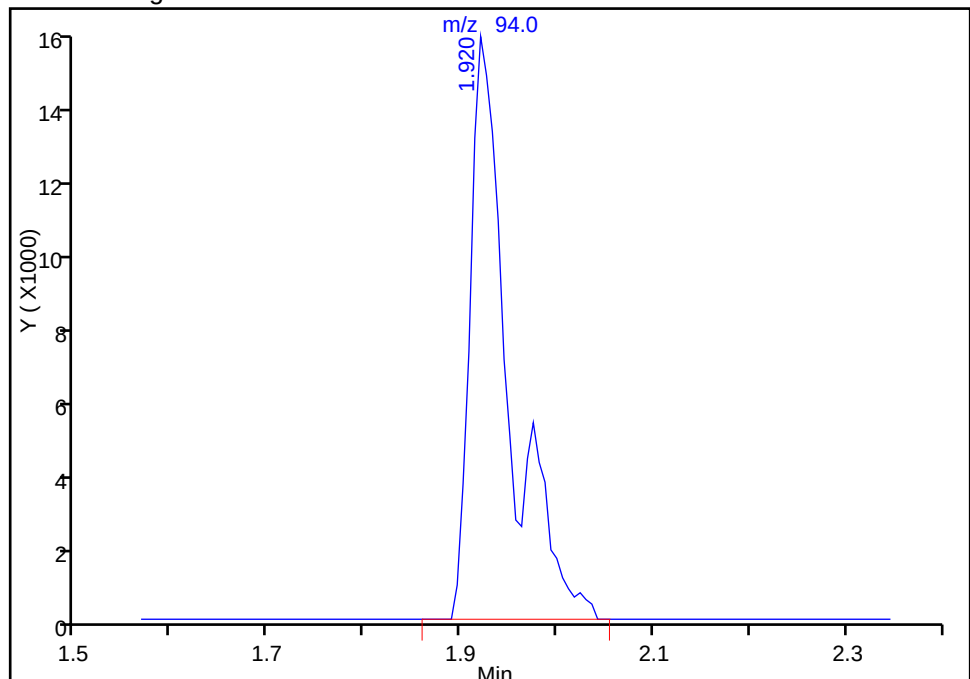
RT: 1.92
Area: 32828
Amount: 16.583959
Amount Units: ug/L

Processing Integration Results



RT: 1.92
Area: 42562
Amount: 21.501354
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 11:35:35

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14 MS</u>	Lab Sample ID: <u>480-110191-8 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0295.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 04:10</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.8		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	26.5		1.0	0.23
75-34-3	1,1-Dichloroethane	27.5		1.0	0.38
75-35-4	1,1-Dichloroethene	29.6		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.2		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	25.7		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	27.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	26.5		1.0	0.39
106-93-4	1,2-Dibromoethane	26.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	27.0		1.0	0.79
107-06-2	1,2-Dichloroethane	24.8		1.0	0.21
78-87-5	1,2-Dichloropropane	27.4		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	28.0		1.0	0.77
541-73-1	1,3-Dichlorobenzene	27.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.9		1.0	0.84
78-93-3	2-Butanone (MEK)	107		10	1.3
591-78-6	2-Hexanone	108		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	114		5.0	2.1
67-64-1	Acetone	101		10	3.0
71-43-2	Benzene	43.2		1.0	0.41
75-27-4	Bromodichloromethane	26.7		1.0	0.39
75-25-2	Bromoform	27.1		1.0	0.26
74-83-9	Bromomethane	23.8		1.0	0.69
75-15-0	Carbon disulfide	23.9		1.0	0.19
56-23-5	Carbon tetrachloride	30.1		1.0	0.27
108-90-7	Chlorobenzene	27.2		1.0	0.75
75-00-3	Chloroethane	27.1		1.0	0.32
67-66-3	Chloroform	27.4		1.0	0.34
74-87-3	Chloromethane	20.3		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.8		1.0	0.36
110-82-7	Cyclohexane	27.9		1.0	0.18
124-48-1	Dibromochloromethane	27.2		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14 MS</u>	Lab Sample ID: <u>480-110191-8 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0295.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 04:10</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	14.1		1.0	0.68
100-41-4	Ethylbenzene	27.1		1.0	0.74
98-82-8	Isopropylbenzene	28.0		1.0	0.79
79-20-9	Methyl acetate	108		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.5		1.0	0.16
108-87-2	Methylcyclohexane	27.8		1.0	0.16
75-09-2	Methylene Chloride	25.4		1.0	0.44
100-42-5	Styrene	27.2		1.0	0.73
127-18-4	Tetrachloroethene	28.1		1.0	0.36
108-88-3	Toluene	28.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.1		1.0	0.37
79-01-6	Trichloroethene	28.2		1.0	0.46
75-69-4	Trichlorofluoromethane	23.2		1.0	0.88
75-01-4	Vinyl chloride	24.5		1.0	0.90
1330-20-7	Xylenes, Total	52.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0295.D
 Lims ID: 480-110191-B-8 MS
 Client ID: 4009-14
 Sample Type: MS
 Inject. Date: 03-Dec-2016 04:10:30 ALS Bottle#: 50 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-b-8 ms
 Misc. Info.: 480-0058844-007
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:10:27 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:10:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	98	78308	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	158000	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	51	158740	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	81	93848	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	60858	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	390413	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	88	120862	25.0	23.1	
10 Dichlorodifluoromethane	85	1.324	1.318	0.006	82	42665	25.0	14.1	
12 Chloromethane	50	1.507	1.501	0.006	89	68196	25.0	20.3	
13 Vinyl chloride	62	1.604	1.598	0.006	81	76747	25.0	24.5	
14 Bromomethane	94	1.945	1.920	0.025	85	45596	25.0	23.8	
15 Chloroethane	64	2.036	2.042	-0.006	83	52336	25.0	27.1	
17 Trichlorofluoromethane	101	2.267	2.267	0.000	55	102456	25.0	23.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.797	2.797	0.000	51	79632	25.0	26.0	
22 1,1-Dichloroethene	96	2.809	2.803	0.006	83	89442	25.0	29.6	
23 Acetone	43	2.912	2.912	0.000	99	132405	125.0	100.7	
26 Carbon disulfide	76	3.009	3.009	0.000	97	240721	25.0	23.9	
27 Methyl acetate	43	3.222	3.216	0.006	97	318855	125.0	108.2	
30 Methylene Chloride	84	3.338	3.338	0.000	87	92758	25.0	25.4	
32 Methyl tert-butyl ether	73	3.545	3.539	0.006	86	264001	25.0	24.5	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	91	96204	25.0	28.9	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	97	166148	25.0	27.5	
45 cis-1,2-Dichloroethene	96	4.542	4.536	0.006	80	107013	25.0	28.8	
43 2-Butanone (MEK)	43	4.579	4.579	0.006	98	200387	125.0	107.1	M
50 Chloroform	83	4.859	4.853	0.006	55	159956	25.0	27.4	
51 1,1,1-Trichloroethane	97	4.981	4.974	0.006	94	121241	25.0	29.9	
52 Cyclohexane	56	4.993	4.987	0.006	89	159519	25.0	27.9	
55 Carbon tetrachloride	117	5.120	5.114	0.006	79	117896	25.0	30.1	
57 Benzene	78	5.339	5.333	0.006	97	599600	25.0	43.2	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	75	128165	25.0	24.8	
62 Trichloroethene	95	5.948	5.948	0.000	96	99007	25.0	28.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	6.082	6.076	0.006	91	160980	25.0	27.8	
65 1,2-Dichloropropane	63	6.185	6.185	0.000	91	93984	25.0	27.4	
68 Dichlorobromomethane	83	6.477	6.477	0.000	92	112219	25.0	26.7	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	82	144174	25.0	26.8	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	95	420559	125.0	114.3	
74 Toluene	92	7.189	7.189	0.000	93	254315	25.0	28.2	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	93	125004	25.0	26.1	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	85	64843	25.0	26.5	
81 Tetrachloroethene	166	7.724	7.724	0.000	86	112698	25.0	28.1	
80 2-Hexanone	43	7.876	7.876	0.000	78	293813	125.0	107.7	
83 Chlorodibromomethane	129	8.053	8.053	0.000	87	86960	25.0	27.2	
84 Ethylene Dibromide	107	8.162	8.162	0.000	96	82884	25.0	26.3	
87 Chlorobenzene	112	8.643	8.643	0.000	86	273792	25.0	27.2	
88 Ethylbenzene	91	8.734	8.734	0.000	96	448224	25.0	27.1	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	180820		26.8	
91 o-Xylene	106	9.282	9.282	0.000	96	171220		25.8	
92 Styrene	104	9.312	9.312	0.000	93	290122	25.0	27.2	
95 Bromoform	173	9.555	9.555	0.000	97	52697	25.0	27.1	
94 Isopropylbenzene	105	9.665	9.665	0.000	95	458608	25.0	28.0	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	103700	25.0	26.8	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	92	391245	25.0	28.0	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	42	397970	25.0	27.6	
111 1,3-Dichlorobenzene	146	10.912	10.912	0.000	74	230108	25.0	27.7	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	231631	25.0	26.9	
112 1,2,3-Trimethylbenzene	105	11.028	11.027	0.001	62	390394	25.0	26.2	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	219961	25.0	27.0	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	69	19303	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	12.743	12.749	-0.006	93	157682	25.0	25.7	
S 124 Xylenes, Total	1				0			52.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

ADD CORP mix_00052

Amount Added: 12.50

Units: uL

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0295.D

Injection Date: 03-Dec-2016 04:10:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-B-8 MS

Worklist Smp#: 7

Client ID: 4009-14

Purge Vol: 5.000 mL

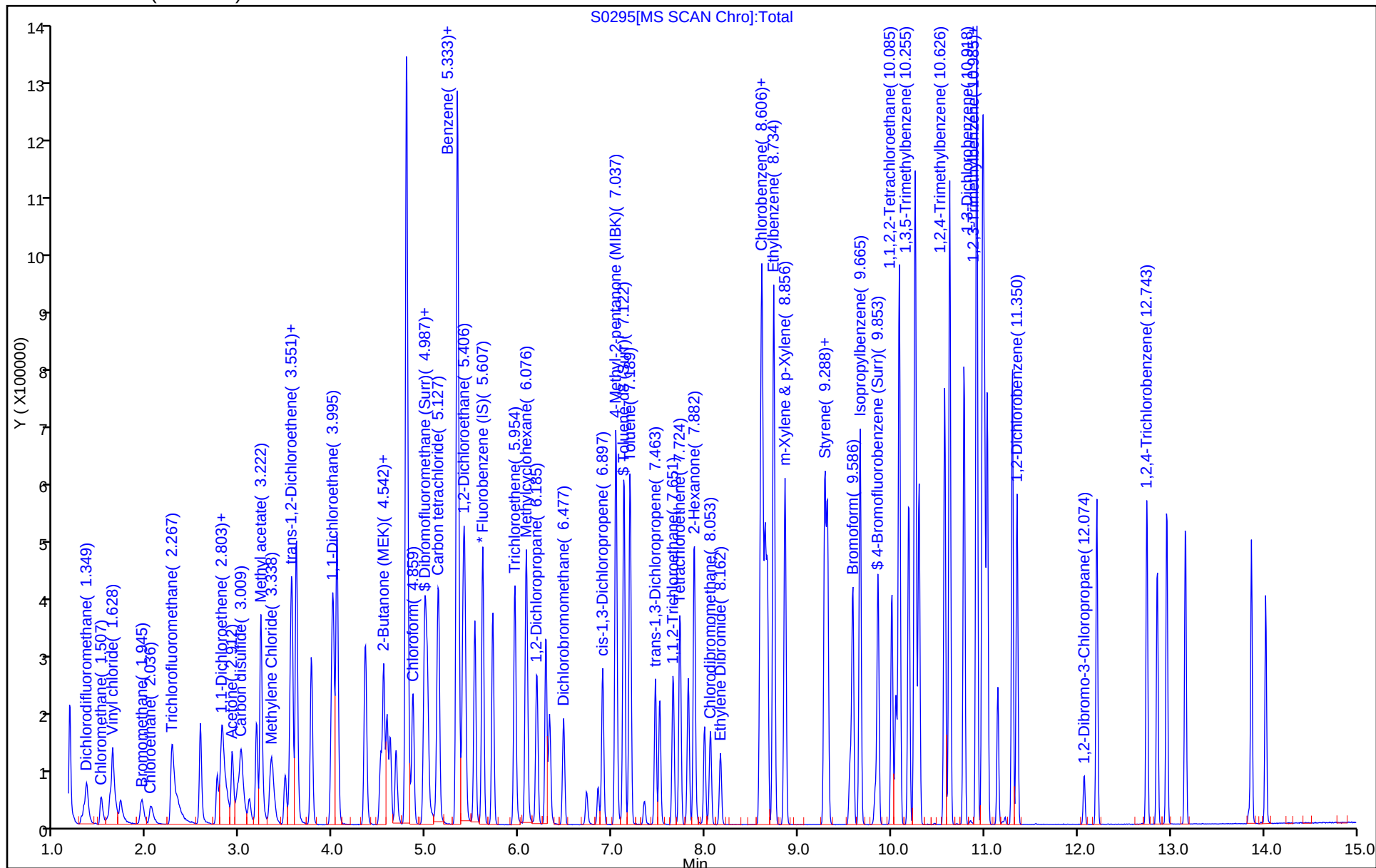
Dil. Factor: 1.0000

ALS Bottle#: 50

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

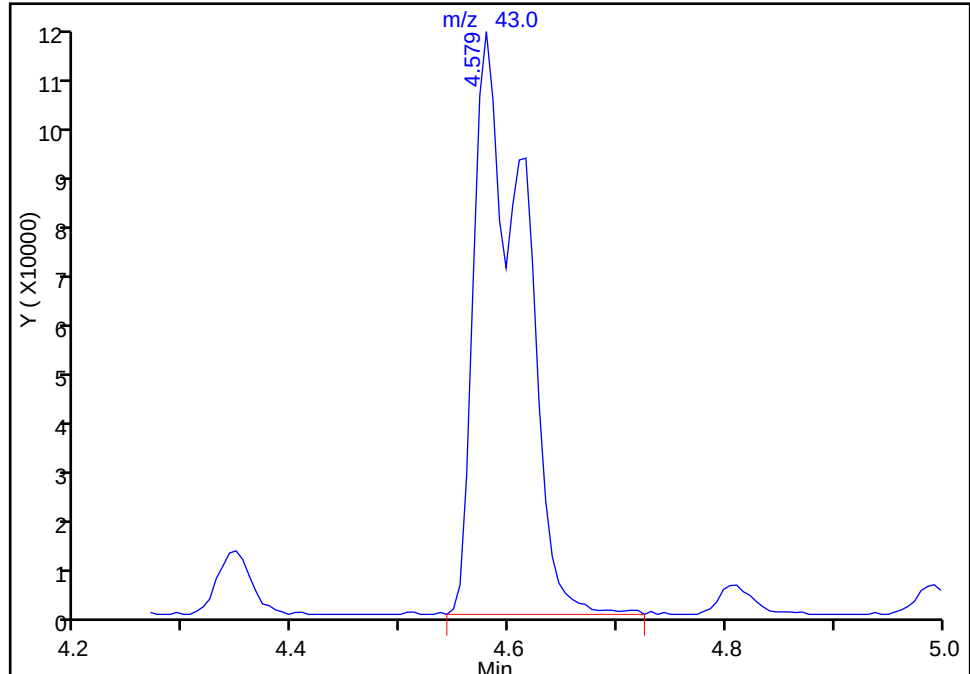
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0295.D
Injection Date: 03-Dec-2016 04:10:30 Instrument ID: HP5973S
Lims ID: 480-110191-B-8 MS
Client ID: 4009-14
Operator ID: SO ALS Bottle#: 50 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

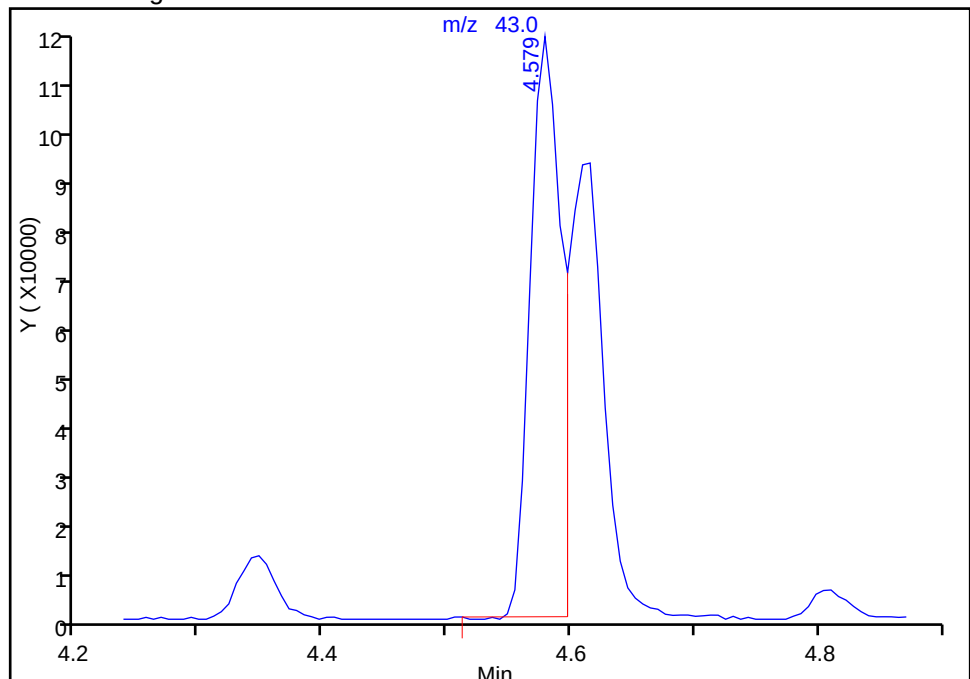
RT: 4.58
Area: 356664
Amount: 190.6690
Amount Units: ug/L

Processing Integration Results



RT: 4.58
Area: 200387
Amount: 107.1249
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 09:10:27

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I MS</u>	Lab Sample ID: <u>480-110191-17 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0297.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 04:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	28.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.5		1.0	0.23
75-34-3	1,1-Dichloroethane	26.1		1.0	0.38
75-35-4	1,1-Dichloroethene	27.4		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.1		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	24.6		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	26.2		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	26.1		1.0	0.39
106-93-4	1,2-Dibromoethane	24.9		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.5		1.0	0.79
107-06-2	1,2-Dichloroethane	23.9		1.0	0.21
78-87-5	1,2-Dichloropropane	26.1		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	26.3		1.0	0.77
541-73-1	1,3-Dichlorobenzene	26.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.2		1.0	0.84
78-93-3	2-Butanone (MEK)	107		10	1.3
591-78-6	2-Hexanone	100		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	2.1
67-64-1	Acetone	98.2		10	3.0
71-43-2	Benzene	27.6		1.0	0.41
75-27-4	Bromodichloromethane	25.4		1.0	0.39
75-25-2	Bromoform	26.1		1.0	0.26
74-83-9	Bromomethane	22.9		1.0	0.69
75-15-0	Carbon disulfide	22.3		1.0	0.19
56-23-5	Carbon tetrachloride	28.8		1.0	0.27
108-90-7	Chlorobenzene	24.9		1.0	0.75
75-00-3	Chloroethane	26.5		1.0	0.32
67-66-3	Chloroform	25.9		1.0	0.34
74-87-3	Chloromethane	19.0		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.8		1.0	0.36
110-82-7	Cyclohexane	27.6		1.0	0.18
124-48-1	Dibromochloromethane	26.1		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I MS</u>	Lab Sample ID: <u>480-110191-17 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0297.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 14:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 04:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	12.5		1.0	0.68
100-41-4	Ethylbenzene	25.7		1.0	0.74
98-82-8	Isopropylbenzene	26.8		1.0	0.79
79-20-9	Methyl acetate	105		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.3		1.0	0.16
108-87-2	Methylcyclohexane	26.8		1.0	0.16
75-09-2	Methylene Chloride	24.3		1.0	0.44
100-42-5	Styrene	25.1		1.0	0.73
127-18-4	Tetrachloroethene	26.8		1.0	0.36
108-88-3	Toluene	25.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.5		1.0	0.37
79-01-6	Trichloroethene	27.4		1.0	0.46
75-69-4	Trichlorofluoromethane	22.7		1.0	0.88
75-01-4	Vinyl chloride	23.9		1.0	0.90
1330-20-7	Xylenes, Total	49.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0297.D
 Lims ID: 480-110191-A-17 MS
 Client ID: 4009-271
 Sample Type: MS
 Inject. Date: 03-Dec-2016 04:57:30 ALS Bottle#: 52 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-17 ms
 Misc. Info.: 480-0058844-013
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:11:36 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:11:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78665	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	84	161327	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	50	161153	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	81	93589	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	62505	25.0	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	399937	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	90	127190	25.0	23.8	
10 Dichlorodifluoromethane	85	1.324	1.318	0.006	89	37915	25.0	12.5	
12 Chloromethane	50	1.507	1.501	0.006	88	64087	25.0	19.0	
13 Vinyl chloride	62	1.604	1.598	0.006	95	75227	25.0	23.9	
14 Bromomethane	94	1.945	1.920	0.025	87	44060	25.0	22.9	
15 Chloroethane	64	2.036	2.042	-0.006	88	51517	25.0	26.5	
17 Trichlorofluoromethane	101	2.273	2.267	0.006	56	100572	25.0	22.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.797	-0.006	81	78209	25.0	25.4	
22 1,1-Dichloroethene	96	2.809	2.803	0.006	85	83043	25.0	27.4	
23 Acetone	43	2.912	2.912	0.000	99	129692	125.0	98.2	
26 Carbon disulfide	76	3.015	3.009	0.006	98	225854	25.0	22.3	
27 Methyl acetate	43	3.222	3.216	0.006	95	311188	125.0	105.2	
30 Methylene Chloride	84	3.338	3.338	0.000	82	89481	25.0	24.3	
32 Methyl tert-butyl ether	73	3.545	3.539	0.006	85	262930	25.0	24.3	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	86	90981	25.0	27.2	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	85	158905	25.0	26.1	
45 cis-1,2-Dichloroethene	96	4.542	4.536	0.006	68	101695	25.0	27.2	
43 2-Butanone (MEK)	43	4.579	4.579	0.006	98	200396	125.0	106.6	M
50 Chloroform	83	4.859	4.853	0.006	54	152085	25.0	25.9	
51 1,1,1-Trichloroethane	97	4.980	4.974	0.006	91	117758	25.0	28.9	
52 Cyclohexane	56	4.993	4.987	0.006	88	158384	25.0	27.6	
55 Carbon tetrachloride	117	5.120	5.114	0.006	89	113240	25.0	28.8	
57 Benzene	78	5.339	5.333	0.006	97	385298	25.0	27.6	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	63	124223	25.0	23.9	
62 Trichloroethene	95	5.948	5.948	0.000	93	96490	25.0	27.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	6.076	6.076	0.000	83	156139	25.0	26.8	
65 1,2-Dichloropropane	63	6.191	6.185	0.006	93	90129	25.0	26.1	
68 Dichlorobromomethane	83	6.477	6.477	0.000	92	107183	25.0	25.4	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	82	139534	25.0	25.8	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	94	407654	125.0	108.5	
74 Toluene	92	7.189	7.189	0.000	93	236029	25.0	25.6	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	89	124778	25.0	25.5	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	84	63848	25.0	25.5	
81 Tetrachloroethene	166	7.724	7.724	0.000	91	109934	25.0	26.8	
80 2-Hexanone	43	7.882	7.876	0.006	69	279945	125.0	100.5	
83 Chlorodibromomethane	129	8.053	8.053	0.000	89	85262	25.0	26.1	
84 Ethylene Dibromide	107	8.162	8.162	0.000	94	80160	25.0	24.9	
87 Chlorobenzene	112	8.643	8.643	0.000	86	255553	25.0	24.9	
88 Ethylbenzene	91	8.734	8.734	0.000	93	434424	25.0	25.7	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	173437		25.2	
91 o-Xylene	106	9.282	9.282	0.000	96	167503		24.7	
92 Styrene	104	9.312	9.312	0.000	94	274088	25.0	25.1	
95 Bromoform	173	9.555	9.555	0.000	94	51785	25.0	26.1	
94 Isopropylbenzene	105	9.665	9.665	0.000	94	444857	25.0	26.8	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	88	99622	25.0	25.3	
102 1,3,5-Trimethylbenzene	105	10.255	10.261	-0.006	90	373104	25.0	26.3	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	27	383467	25.0	26.2	
111 1,3-Dichlorobenzene	146	10.912	10.912	0.000	75	220521	25.0	26.2	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	220766	25.0	25.2	
112 1,2,3-Trimethylbenzene	105	11.028	11.027	0.001	60	395614	25.0	26.1	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	210848	25.0	25.5	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	68	19274	25.0	26.1	
119 1,2,4-Trichlorobenzene	180	12.743	12.749	-0.006	93	153216	25.0	24.6	
S 124 Xylenes, Total	1				0			49.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
GAS CORP mix_00193	Amount Added: 12.50	Units: uL	
ADD CORP mix_00052	Amount Added: 12.50	Units: uL	
S_8260_IS_00197	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00174	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0297.D

Injection Date: 03-Dec-2016 04:57:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-17 MS

Worklist Smp#: 13

Client ID: 4009-271

Purge Vol: 5.000 mL

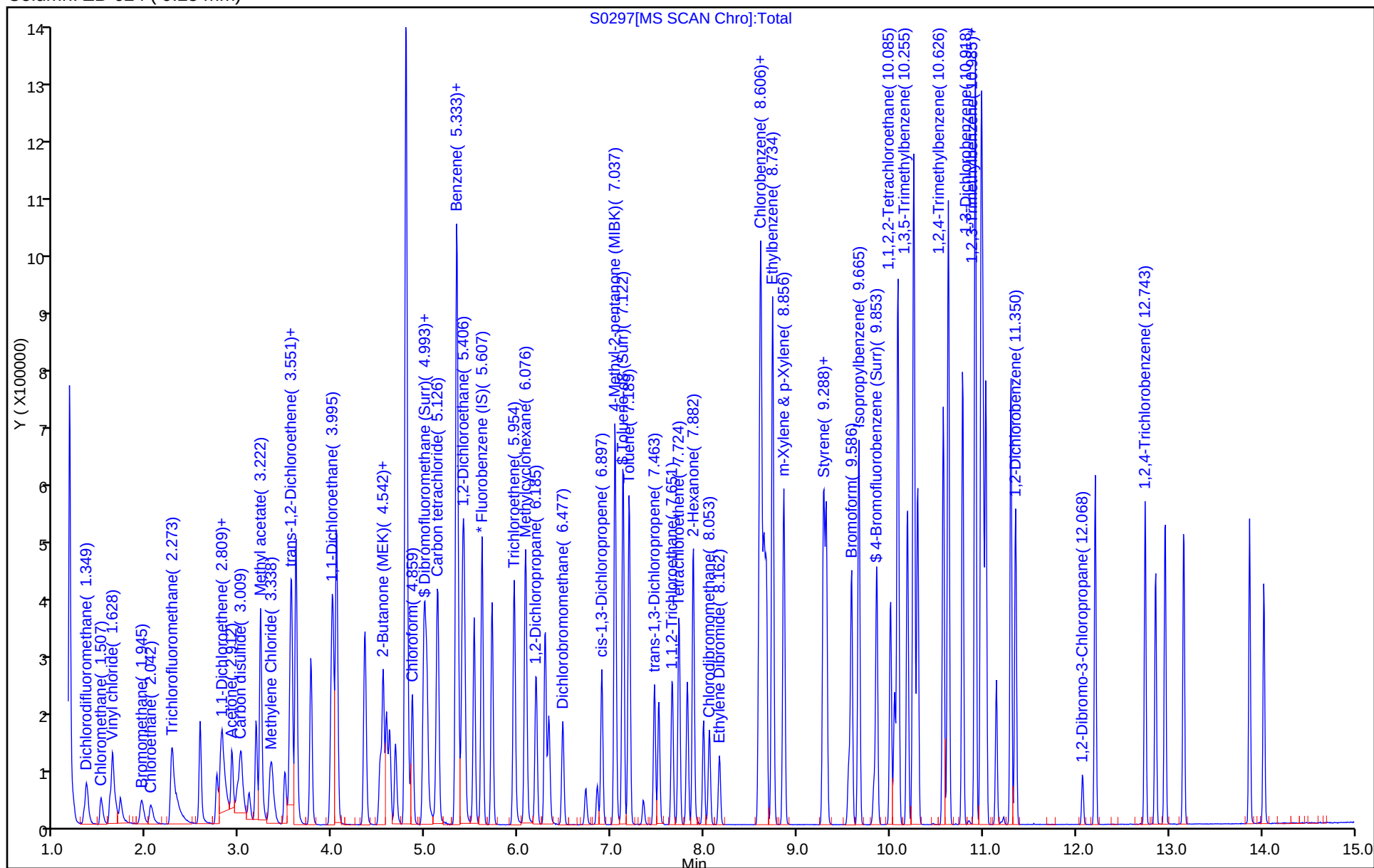
Dil. Factor: 1.0000

ALS Bottle#: 52

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

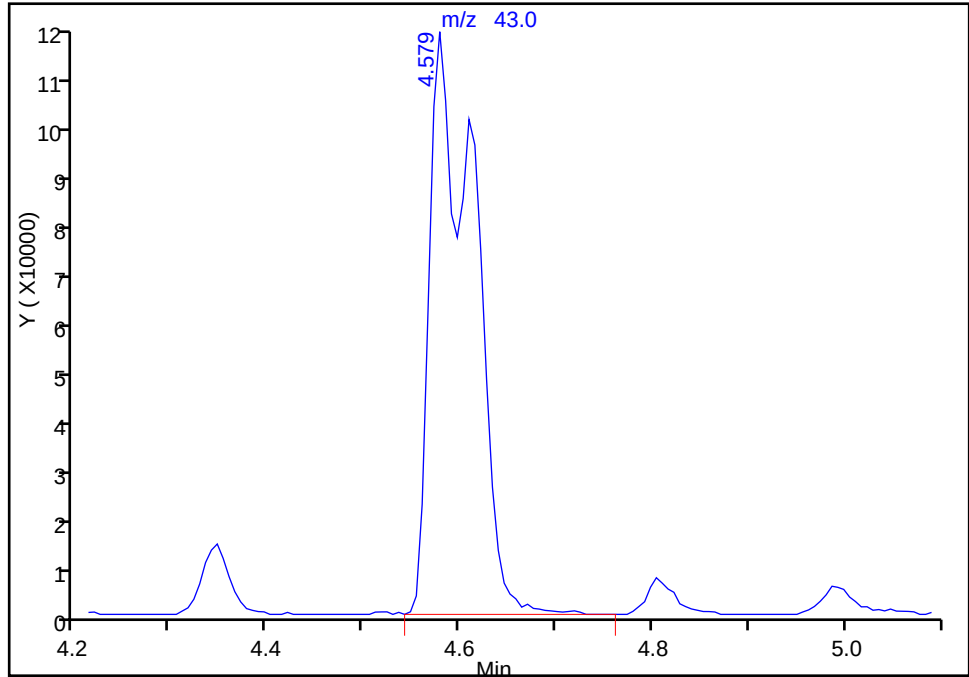
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0297.D
Injection Date: 03-Dec-2016 04:57:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-17 MS
Client ID: 4009-271
Operator ID: SO ALS Bottle#: 52 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

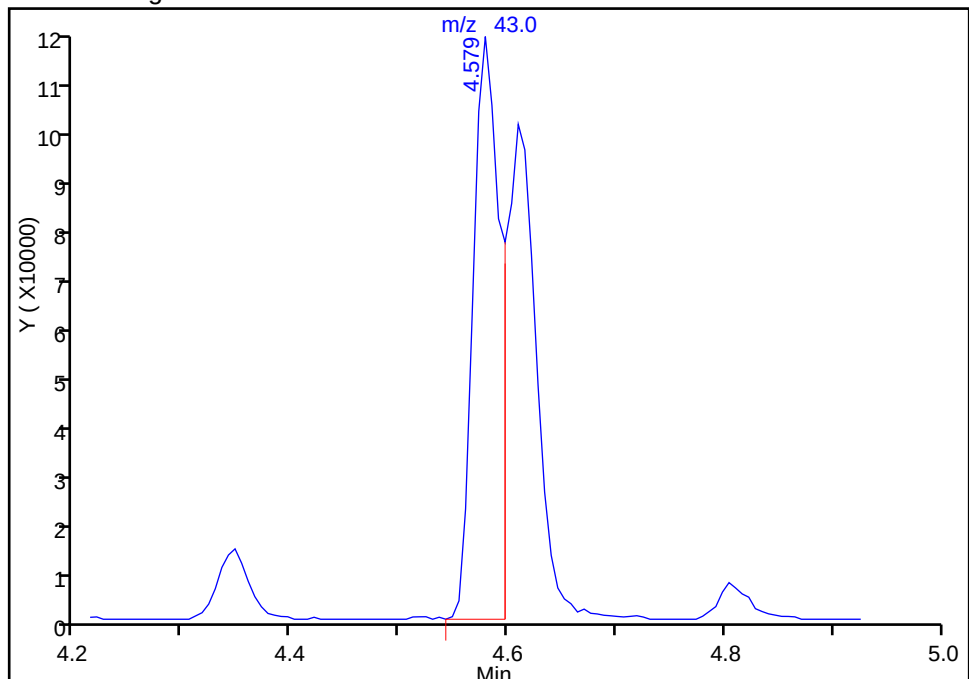
RT: 4.58
Area: 363005
Amount: 193.1782
Amount Units: ug/L

Processing Integration Results



RT: 4.58
Area: 200396
Amount: 106.6435
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 09:11:36

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14 MSD</u>	Lab Sample ID: <u>480-110191-8 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0296.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 04:33</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	28.7		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.9		1.0	0.23
75-34-3	1,1-Dichloroethane	26.9		1.0	0.38
75-35-4	1,1-Dichloroethene	28.8		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.4		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	25.6		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	27.7		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	27.6		1.0	0.39
106-93-4	1,2-Dibromoethane	25.2		1.0	0.73
95-50-1	1,2-Dichlorobenzene	26.7		1.0	0.79
107-06-2	1,2-Dichloroethane	24.4		1.0	0.21
78-87-5	1,2-Dichloropropane	26.9		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	27.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	27.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.1		1.0	0.84
78-93-3	2-Butanone (MEK)	109		10	1.3
591-78-6	2-Hexanone	104		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	111		5.0	2.1
67-64-1	Acetone	99.4		10	3.0
71-43-2	Benzene	42.4		1.0	0.41
75-27-4	Bromodichloromethane	26.1		1.0	0.39
75-25-2	Bromoform	26.4		1.0	0.26
74-83-9	Bromomethane	22.9		1.0	0.69
75-15-0	Carbon disulfide	22.5		1.0	0.19
56-23-5	Carbon tetrachloride	29.6		1.0	0.27
108-90-7	Chlorobenzene	26.2		1.0	0.75
75-00-3	Chloroethane	26.7		1.0	0.32
67-66-3	Chloroform	26.4		1.0	0.34
74-87-3	Chloromethane	19.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.5		1.0	0.36
110-82-7	Cyclohexane	27.3		1.0	0.18
124-48-1	Dibromochloromethane	26.6		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110191-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14 MSD</u>	Lab Sample ID: <u>480-110191-8 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>S0296.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/28/2016 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 04:33</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334536</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	13.3		1.0	0.68
100-41-4	Ethylbenzene	26.3		1.0	0.74
98-82-8	Isopropylbenzene	28.3		1.0	0.79
79-20-9	Methyl acetate	107		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.6		1.0	0.16
108-87-2	Methylcyclohexane	27.0		1.0	0.16
75-09-2	Methylene Chloride	24.4		1.0	0.44
100-42-5	Styrene	26.1		1.0	0.73
127-18-4	Tetrachloroethene	27.1		1.0	0.36
108-88-3	Toluene	27.0		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.5		1.0	0.37
79-01-6	Trichloroethene	27.6		1.0	0.46
75-69-4	Trichlorofluoromethane	23.0		1.0	0.88
75-01-4	Vinyl chloride	23.9		1.0	0.90
1330-20-7	Xylenes, Total	50.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0296.D
 Lims ID: 480-110191-B-8 MSD
 Client ID: 4009-14
 Sample Type: MSD
 Inject. Date: 03-Dec-2016 04:33:30 ALS Bottle#: 51 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-b-8 msd
 Misc. Info.: 480-0058844-008
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:11:03 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:11:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	78106	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	85	160518	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	49	156312	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.011	5.011	0.000	81	95658	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	61180	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	396931	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.854	9.853	0.001	89	124207	25.0	23.4	
10 Dichlorodifluoromethane	85	1.324	1.318	0.006	83	40187	25.0	13.3	
12 Chloromethane	50	1.507	1.501	0.006	89	65720	25.0	19.6	
13 Vinyl chloride	62	1.604	1.598	0.006	67	74641	25.0	23.9	
14 Bromomethane	94	1.939	1.920	0.019	86	43811	25.0	22.9	
15 Chloroethane	64	2.042	2.042	0.000	87	51459	25.0	26.7	
17 Trichlorofluoromethane	101	2.267	2.267	0.000	56	101374	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.791	2.797	-0.006	75	77056	25.0	25.2	
22 1,1-Dichloroethene	96	2.809	2.803	0.006	93	86910	25.0	28.8	
23 Acetone	43	2.912	2.912	0.000	100	130371	125.0	99.4	
26 Carbon disulfide	76	3.010	3.009	0.001	98	225932	25.0	22.5	
27 Methyl acetate	43	3.222	3.216	0.006	95	313497	125.0	106.7	
30 Methylene Chloride	84	3.338	3.338	0.000	88	89222	25.0	24.4	
32 Methyl tert-butyl ether	73	3.545	3.539	0.006	84	264498	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	91	92962	25.0	28.0	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	85	162524	25.0	26.9	
45 cis-1,2-Dichloroethene	96	4.543	4.536	0.007	68	103786	25.0	28.0	
43 2-Butanone (MEK)	43	4.579	4.579	0.006	98	203686	125.0	109.2	M
50 Chloroform	83	4.853	4.853	0.000	55	154204	25.0	26.4	
51 1,1,1-Trichloroethane	97	4.981	4.974	0.007	96	115973	25.0	28.7	
52 Cyclohexane	56	4.993	4.987	0.006	88	155509	25.0	27.3	
55 Carbon tetrachloride	117	5.121	5.114	0.006	89	115667	25.0	29.6	
57 Benzene	78	5.333	5.333	0.000	97	587057	25.0	42.4	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	66	125648	25.0	24.4	
62 Trichloroethene	95	5.948	5.948	0.000	92	96608	25.0	27.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	6.076	6.076	0.000	83	156141	25.0	27.0	
65 1,2-Dichloropropane	63	6.185	6.185	0.000	93	92098	25.0	26.9	
68 Dichlorobromomethane	83	6.477	6.477	0.000	93	109509	25.0	26.1	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	83	142445	25.0	26.5	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	95	414082	125.0	110.8	
74 Toluene	92	7.189	7.189	0.000	93	246955	25.0	27.0	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	89	124235	25.0	25.5	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	87	64304	25.0	25.9	
81 Tetrachloroethene	166	7.730	7.724	0.006	83	110555	25.0	27.1	
80 2-Hexanone	43	7.882	7.876	0.006	70	287771	125.0	103.8	
83 Chlorodibromomethane	129	8.053	8.053	0.000	88	86460	25.0	26.6	
84 Ethylene Dibromide	107	8.162	8.162	0.000	97	80561	25.0	25.2	
87 Chlorobenzene	112	8.643	8.643	0.000	87	267359	25.0	26.2	
88 Ethylbenzene	91	8.734	8.734	0.000	96	442308	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	177172		25.9	
91 o-Xylene	106	9.282	9.282	0.000	97	167689		24.9	
92 Styrene	104	9.312	9.312	0.000	92	283245	25.0	26.1	
95 Bromoform	173	9.555	9.555	0.000	96	52142	25.0	26.4	
94 Isopropylbenzene	105	9.665	9.665	0.000	94	456047	25.0	28.3	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	78	100403	25.0	26.3	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	91	384098	25.0	27.9	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	29	393395	25.0	27.7	
111 1,3-Dichlorobenzene	146	10.912	10.912	0.000	75	224126	25.0	27.4	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	95	221704	25.0	26.1	
112 1,2,3-Trimethylbenzene	105	11.028	11.027	0.001	50	387795	25.0	26.4	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	214277	25.0	26.7	
117 1,2-Dibromo-3-Chloropropan	75	12.068	12.068	0.000	69	19738	25.0	27.6	
119 1,2,4-Trichlorobenzene	180	12.743	12.749	-0.006	93	154215	25.0	25.6	
S 124 Xylenes, Total	1				0			50.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

ADD CORP mix_00052

Amount Added: 12.50

Units: uL

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0296.D

Injection Date: 03-Dec-2016 04:33:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-B-8 MSD

Worklist Smp#: 8

Client ID: 4009-14

Purge Vol: 5.000 mL

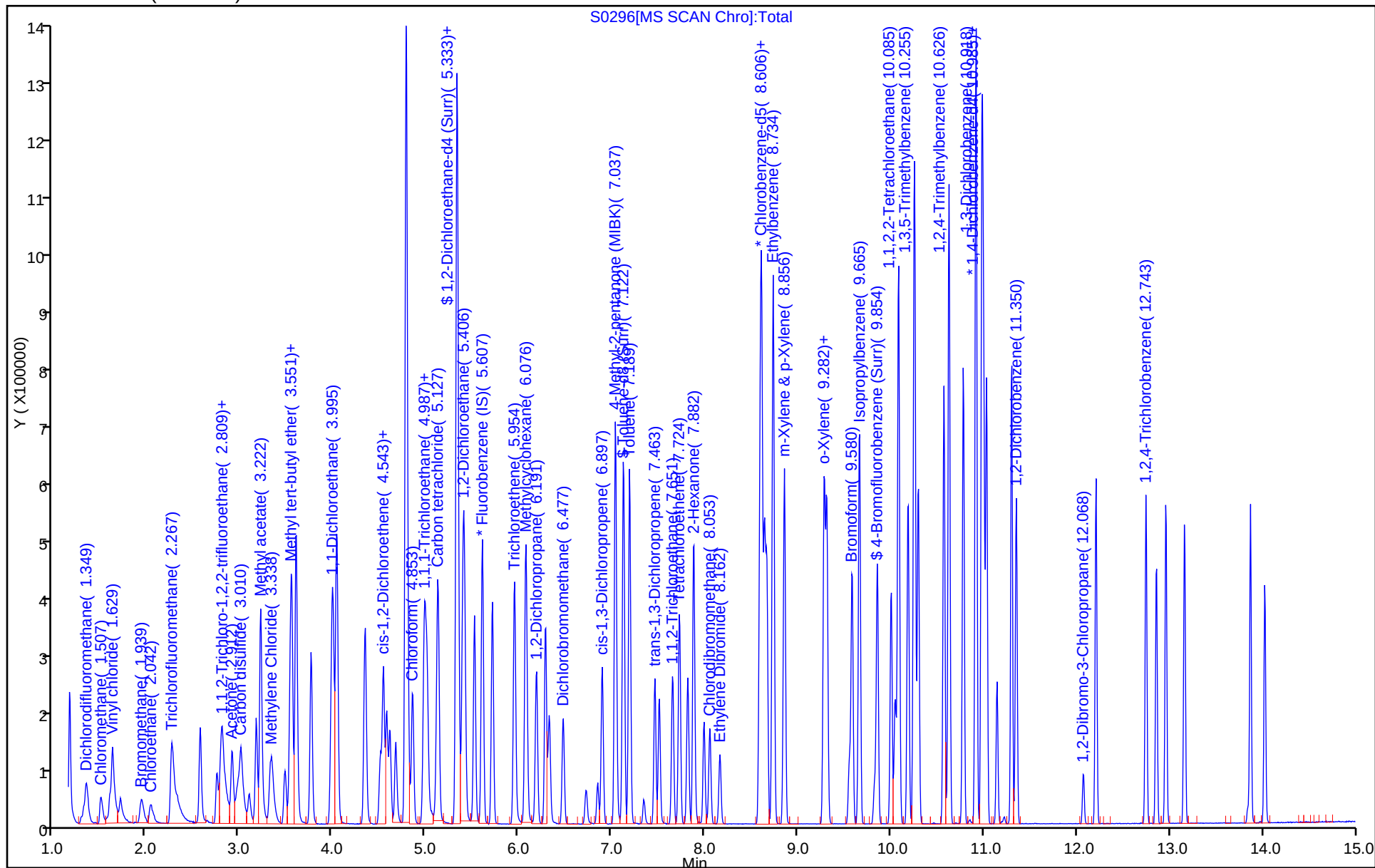
Dil. Factor: 1.0000

ALS Bottle#: 51

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0296.D
Injection Date: 03-Dec-2016 04:33:30 Instrument ID: HP5973S
Lims ID: 480-110191-B-8 MSD
Client ID: 4009-14
Operator ID: SO
Purge Vol: 5.000 mL
Method: S-8260
Column: ZB-624 (0.25 mm)

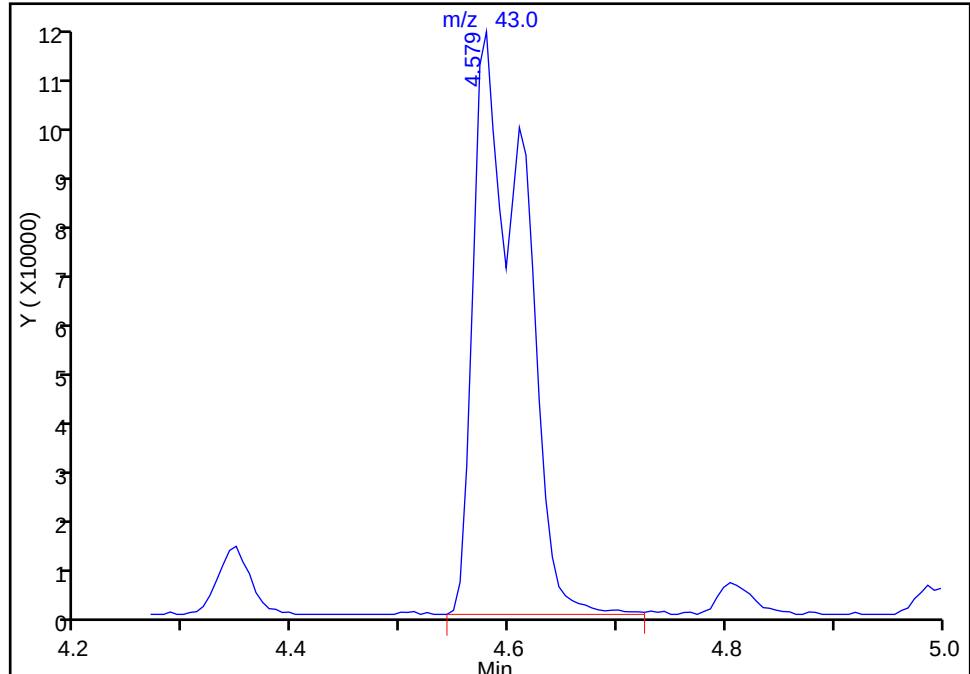
ALS Bottle#: 51 Worklist Smp#: 8
Dil. Factor: 1.0000
Limit Group: MV - 8260C ICAL
Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

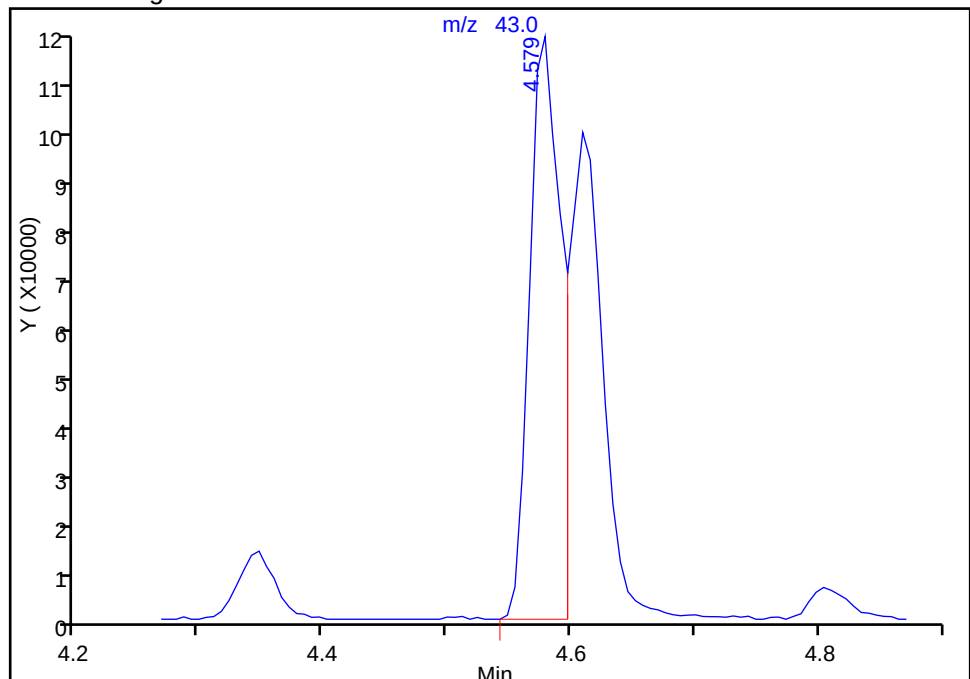
RT: 4.58
Area: 359378
Amount: 192.6168
Amount Units: ug/L

Processing Integration Results



RT: 4.58
Area: 203686
Amount: 109.1701
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 09:11:03

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1

SDG No.: _____

Client Sample ID: 4009-27I MSD Lab Sample ID: 480-110191-17 MSD

Matrix: Water Lab File ID: S0298.D

Analysis Method: 8260C Date Collected: 11/28/2016 14:05

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 05:20

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.6		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.8		1.0	0.23
75-34-3	1,1-Dichloroethane	25.5		1.0	0.38
75-35-4	1,1-Dichloroethene	28.0		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.3		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	24.7		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	25.8		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.2		1.0	0.39
106-93-4	1,2-Dibromoethane	24.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.2		1.0	0.79
107-06-2	1,2-Dichloroethane	23.2		1.0	0.21
78-87-5	1,2-Dichloropropane	25.4		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	25.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	25.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.1		1.0	0.84
78-93-3	2-Butanone (MEK)	104		10	1.3
591-78-6	2-Hexanone	102		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	2.1
67-64-1	Acetone	96.1		10	3.0
71-43-2	Benzene	26.7		1.0	0.41
75-27-4	Bromodichloromethane	24.5		1.0	0.39
75-25-2	Bromoform	26.4		1.0	0.26
74-83-9	Bromomethane	24.3		1.0	0.69
75-15-0	Carbon disulfide	22.0		1.0	0.19
56-23-5	Carbon tetrachloride	28.6		1.0	0.27
108-90-7	Chlorobenzene	25.3		1.0	0.75
75-00-3	Chloroethane	27.1		1.0	0.32
67-66-3	Chloroform	25.1		1.0	0.34
74-87-3	Chloromethane	19.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.3		1.0	0.36
110-82-7	Cyclohexane	26.4		1.0	0.18
124-48-1	Dibromochloromethane	25.8		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110191-1
 SDG No.: _____
 Client Sample ID: 4009-27I MSD Lab Sample ID: 480-110191-17 MSD
 Matrix: Water Lab File ID: S0298.D
 Analysis Method: 8260C Date Collected: 11/28/2016 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 05:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	12.9		1.0	0.68
100-41-4	Ethylbenzene	25.6		1.0	0.74
98-82-8	Isopropylbenzene	26.3		1.0	0.79
79-20-9	Methyl acetate	101		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	26.0		1.0	0.16
75-09-2	Methylene Chloride	23.8		1.0	0.44
100-42-5	Styrene	25.2		1.0	0.73
127-18-4	Tetrachloroethene	26.6		1.0	0.36
108-88-3	Toluene	25.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.1		1.0	0.37
79-01-6	Trichloroethene	26.0		1.0	0.46
75-69-4	Trichlorofluoromethane	24.3		1.0	0.88
75-01-4	Vinyl chloride	24.3		1.0	0.90
1330-20-7	Xylenes, Total	49.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0298.D
 Lims ID: 480-110191-A-17 MSD
 Client ID: 4009-271
 Sample Type: MSD
 Inject. Date: 03-Dec-2016 05:20:30 ALS Bottle#: 53 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110191-a-17 msd
 Misc. Info.: 480-0058844-014
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:12:09 Calib Date: 09-Nov-2016 23:47:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20161109-58150.b\S9082.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: goliszekg

Date: 03-Dec-2016 09:12:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.607	5.607	0.000	99	77282	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.612	8.612	0.000	83	154099	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.979	10.979	0.000	52	158337	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	5.017	5.011	0.006	83	94102	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.327	5.327	0.000	0	61531	25.0	26.1	
\$ 5 Toluene-d8 (Surr)	98	7.122	7.122	0.000	90	388760	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.853	9.853	0.000	89	122985	25.0	24.1	
10 Dichlorodifluoromethane	85	1.330	1.318	0.012	92	38598	25.0	12.9	
12 Chloromethane	50	1.501	1.501	0.000	100	65788	25.0	19.9	
13 Vinyl chloride	62	1.604	1.598	0.006	81	75064	25.0	24.3	
14 Bromomethane	94	1.939	1.920	0.019	80	45885	25.0	24.3	
15 Chloroethane	64	2.042	2.042	0.000	94	51712	25.0	27.1	
17 Trichlorofluoromethane	101	2.273	2.267	0.006	62	106031	25.0	24.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.797	-0.006	79	74306	25.0	24.6	
22 1,1-Dichloroethene	96	2.809	2.803	0.006	84	83516	25.0	28.0	
23 Acetone	43	2.918	2.912	0.006	99	124721	125.0	96.1	
26 Carbon disulfide	76	3.009	3.009	0.000	98	218193	25.0	22.0	
27 Methyl acetate	43	3.222	3.216	0.006	95	293153	125.0	100.8	
30 Methylene Chloride	84	3.338	3.338	0.000	81	86009	25.0	23.8	
32 Methyl tert-butyl ether	73	3.545	3.539	0.006	84	249896	25.0	23.5	
34 trans-1,2-Dichloroethene	96	3.557	3.557	0.000	86	89396	25.0	27.2	
39 1,1-Dichloroethane	63	3.983	3.977	0.006	85	152049	25.0	25.5	
45 cis-1,2-Dichloroethene	96	4.542	4.536	0.006	81	98495	25.0	26.8	
43 2-Butanone (MEK)	43	4.579	4.579	0.006	98	191461	125.0	103.7	M
50 Chloroform	83	4.859	4.853	0.006	56	144675	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.980	4.974	0.006	91	109945	25.0	27.5	
52 Cyclohexane	56	4.993	4.987	0.006	89	149044	25.0	26.4	
55 Carbon tetrachloride	117	5.120	5.114	0.006	79	110614	25.0	28.6	
57 Benzene	78	5.339	5.333	0.006	96	366002	25.0	26.7	
58 1,2-Dichloroethane	62	5.400	5.394	0.006	73	118160	25.0	23.2	
62 Trichloroethene	95	5.954	5.948	0.006	92	90196	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	6.076	6.076	0.000	83	148455	25.0	26.0	
65 1,2-Dichloropropane	63	6.191	6.185	0.006	92	85948	25.0	25.4	
68 Dichlorobromomethane	83	6.477	6.477	0.000	92	101356	25.0	24.5	
72 cis-1,3-Dichloropropene	75	6.897	6.897	0.000	81	134609	25.0	25.3	
73 4-Methyl-2-pentanone (MIBK)	43	7.037	7.037	0.000	95	389068	125.0	108.4	
74 Toluene	92	7.189	7.189	0.000	94	227396	25.0	25.9	
77 trans-1,3-Dichloropropene	75	7.463	7.463	0.000	89	117251	25.0	25.1	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	86	61616	25.0	25.8	
81 Tetrachloroethene	166	7.730	7.724	0.006	85	104304	25.0	26.6	
80 2-Hexanone	43	7.882	7.876	0.006	76	271441	125.0	102.0	
83 Chlorodibromomethane	129	8.053	8.053	0.000	84	80552	25.0	25.8	
84 Ethylene Dibromide	107	8.162	8.162	0.000	97	74773	25.0	24.3	
87 Chlorobenzene	112	8.643	8.643	0.000	87	247971	25.0	25.3	
88 Ethylbenzene	91	8.734	8.734	0.000	92	412420	25.0	25.6	
90 m-Xylene & p-Xylene	106	8.856	8.856	0.000	0	163247		24.8	
91 o-Xylene	106	9.282	9.282	0.000	97	159140		24.6	
92 Styrene	104	9.312	9.312	0.000	93	262220	25.0	25.2	
95 Bromoform	173	9.555	9.555	0.000	97	50028	25.0	26.4	
94 Isopropylbenzene	105	9.665	9.665	0.000	94	429440	25.0	26.3	
97 1,1,2,2-Tetrachloroethane	83	10.048	10.048	0.000	80	95262	25.0	24.6	
102 1,3,5-Trimethylbenzene	105	10.261	10.261	0.000	91	361833	25.0	25.9	
107 1,2,4-Trimethylbenzene	105	10.626	10.626	0.000	24	371582	25.0	25.8	
111 1,3-Dichlorobenzene	146	10.918	10.912	0.006	68	214562	25.0	25.9	
113 1,4-Dichlorobenzene	146	11.003	11.003	0.000	96	215954	25.0	25.1	
112 1,2,3-Trimethylbenzene	105	11.028	11.027	0.001	62	391339	25.0	26.3	
116 1,2-Dichlorobenzene	146	11.350	11.350	0.000	92	204819	25.0	25.2	
117 1,2-Dibromo-3-Chloropropan	75	12.074	12.068	0.006	71	18305	25.0	25.2	
119 1,2,4-Trichlorobenzene	180	12.743	12.749	-0.006	93	151052	25.0	24.7	
S 124 Xylenes, Total	1				0			49.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

ADD CORP mix_00052

Amount Added: 12.50

Units: uL

S_8260_IS_00197

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00174

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0298.D

Injection Date: 03-Dec-2016 05:20:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-110191-A-17 MSD

Worklist Smp#: 14

Client ID: 4009-271

Purge Vol: 5.000 mL

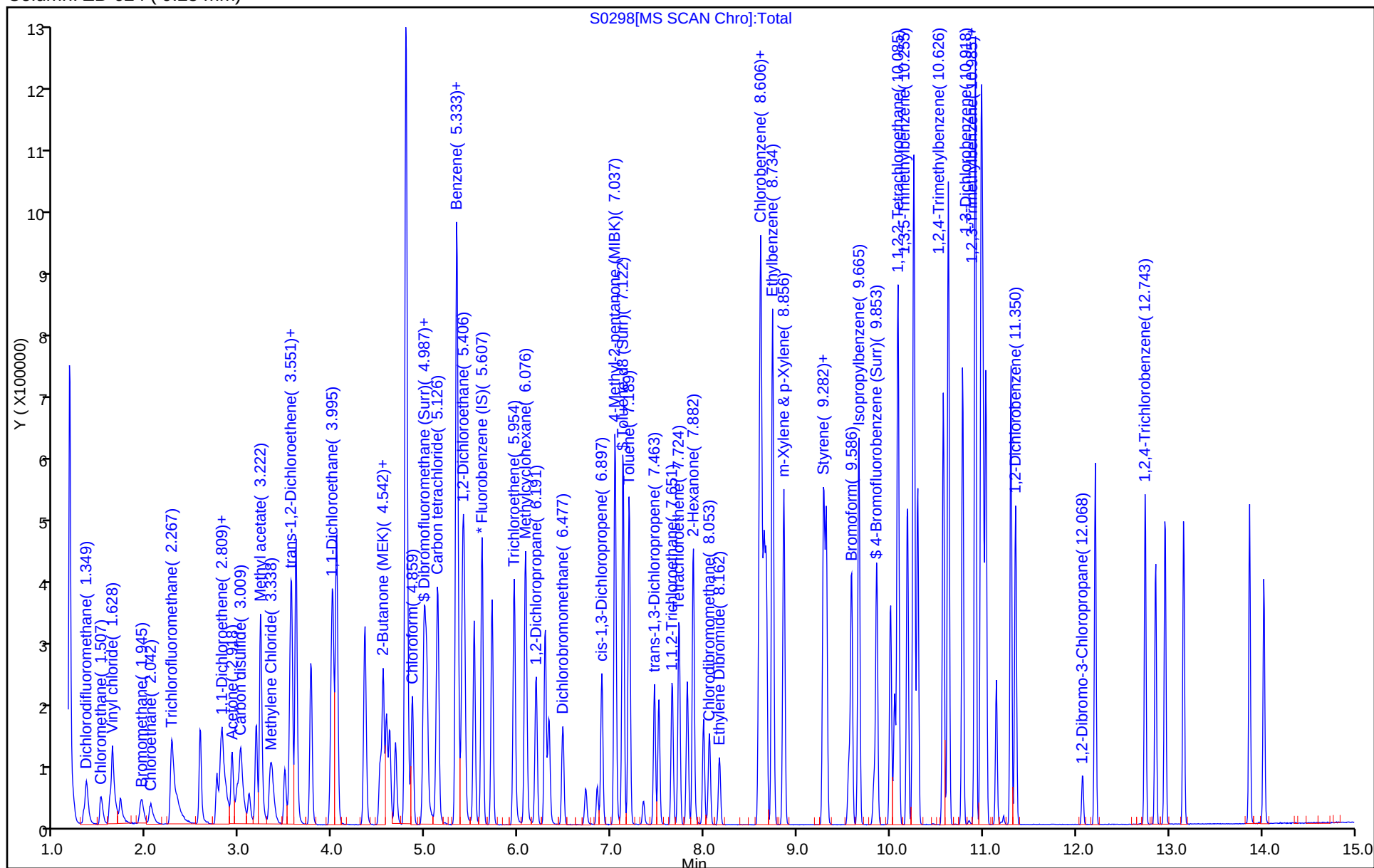
Dil. Factor: 1.0000

ALS Bottle#: 53

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

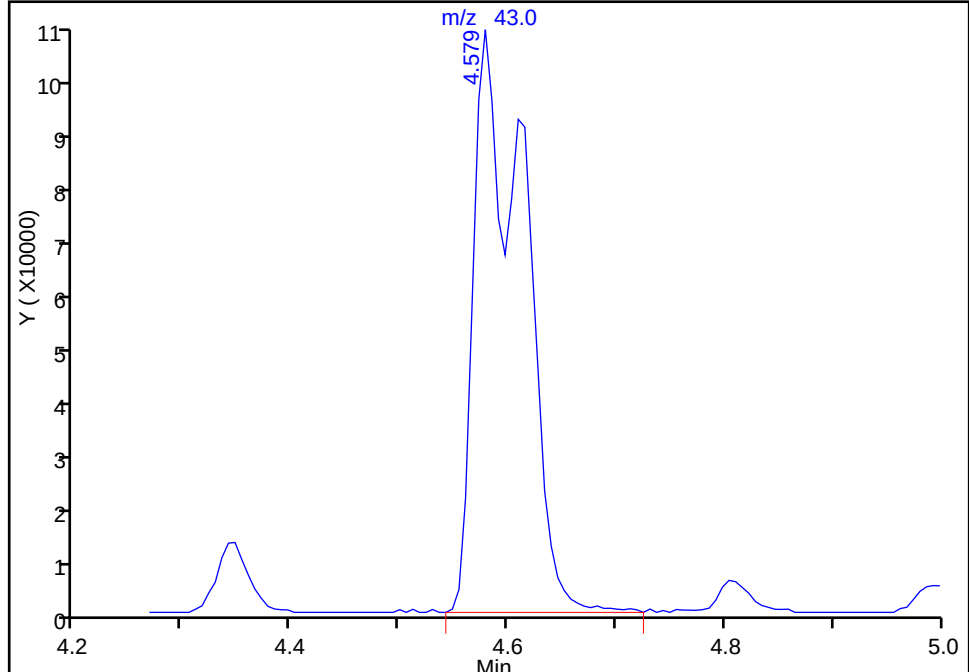
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20161202-58844.b\S0298.D
Injection Date: 03-Dec-2016 05:20:30 Instrument ID: HP5973S
Lims ID: 480-110191-A-17 MSD
Client ID: 4009-271
Operator ID: SO ALS Bottle#: 53 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

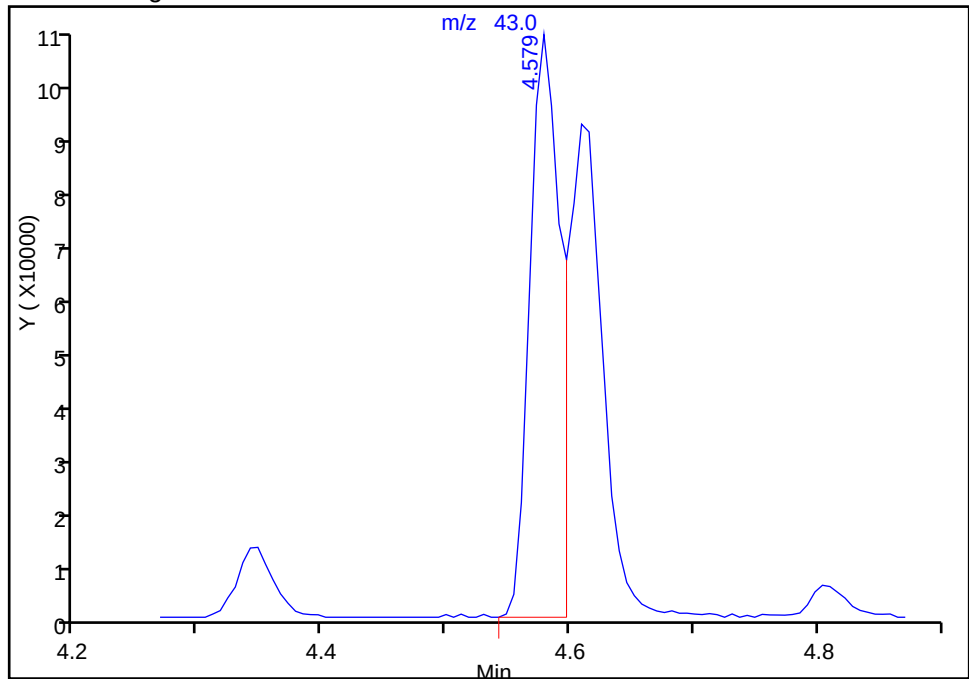
RT: 4.58
Area: 348268
Amount: 188.6523
Amount Units: ug/L

Processing Integration Results



RT: 4.58
Area: 191461
Amount: 103.7120
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 03-Dec-2016 09:12:09

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110191-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 11/09/2016 15:56Analysis Batch Number: 330658End Date: 11/10/2016 01:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-330658/2		11/09/2016 15:56	1	S9062.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/4		11/09/2016 16:51	1	S9064.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/5		11/09/2016 17:14	1	S9065.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/6		11/09/2016 17:37	1	S9066.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/7		11/09/2016 18:00	1	S9067.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/8		11/09/2016 18:23	1	S9068.D	ZB-624 (20) 0.18 (mm)
ICIS 480-330658/9		11/09/2016 18:46	1	S9069.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/10		11/09/2016 19:10	1	S9070.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/11		11/09/2016 19:33	1	S9071.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/17		11/09/2016 21:28	1	S9076.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/18		11/09/2016 21:51	1	S9077.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/19		11/09/2016 22:14	1	S9078.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/20		11/09/2016 22:38	1	S9079.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/21		11/09/2016 23:01	1	S9080.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/22		11/09/2016 23:24	1	S9081.D	ZB-624 (20) 0.18 (mm)
IC 480-330658/23		11/09/2016 23:47	1	S9082.D	ZB-624 (20) 0.18 (mm)
MDLV 480-330658/25		11/10/2016 00:33	1		ZB-624 (20) 0.18 (mm)
ICV 480-330658/26		11/10/2016 00:56	1		ZB-624 (20) 0.18 (mm)
ICV 480-330658/27		11/10/2016 01:19	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110191-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 12/02/2016 08:39Analysis Batch Number: 334403End Date: 12/02/2016 18:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-334403/1		12/02/2016 08:39	1	S0246.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-334403/2		12/02/2016 09:03	1	S0247.D	ZB-624 (20) 0.18 (mm)
CCV 480-334403/3		12/02/2016 09:26	1	S0248.D	ZB-624 (20) 0.18 (mm)
LCS 480-334403/5		12/02/2016 10:12	1	S0250.D	ZB-624 (20) 0.18 (mm)
MB 480-334403/7		12/02/2016 10:58	1	S0252.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 11:36	100		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 12:00	100		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 12:23	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 12:46	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 13:09	20		ZB-624 (20) 0.18 (mm)
480-110191-1		12/02/2016 13:32	5	S0258.D	ZB-624 (20) 0.18 (mm)
480-110191-2		12/02/2016 13:55	1	S0259.D	ZB-624 (20) 0.18 (mm)
480-110191-3		12/02/2016 14:17	1	S0260.D	ZB-624 (20) 0.18 (mm)
480-110191-4		12/02/2016 14:40	1	S0261.D	ZB-624 (20) 0.18 (mm)
480-110191-5		12/02/2016 15:04	1	S0262.D	ZB-624 (20) 0.18 (mm)
480-110191-6		12/02/2016 15:27	1	S0263.D	ZB-624 (20) 0.18 (mm)
480-110191-7		12/02/2016 15:50	1	S0264.D	ZB-624 (20) 0.18 (mm)
480-110191-8		12/02/2016 16:13	1	S0265.D	ZB-624 (20) 0.18 (mm)
480-110191-9		12/02/2016 16:36	1	S0266.D	ZB-624 (20) 0.18 (mm)
480-110191-10		12/02/2016 16:59	1	S0267.D	ZB-624 (20) 0.18 (mm)
480-110191-11		12/02/2016 17:22	1	S0268.D	ZB-624 (20) 0.18 (mm)
480-110191-12		12/02/2016 17:45	1	S0269.D	ZB-624 (20) 0.18 (mm)
480-110191-13		12/02/2016 18:08	1	S0270.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 18:31	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2016 18:54	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110191-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 12/02/2016 19:24Analysis Batch Number: 334536End Date: 12/03/2016 05:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-334536/1		12/02/2016 19:24	1	S0273.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-334536/2		12/02/2016 19:50	1	S0274.D	ZB-624 (20) 0.18 (mm)
CCV 480-334536/3		12/02/2016 20:13	1	S0275.D	ZB-624 (20) 0.18 (mm)
LCS 480-334536/4		12/02/2016 20:36	1	S0276.D	ZB-624 (20) 0.18 (mm)
MB 480-334536/6		12/02/2016 21:22	1	S0278.D	ZB-624 (20) 0.18 (mm)
480-110191-14		12/02/2016 22:00	1	S0279.D	ZB-624 (20) 0.18 (mm)
480-110191-15		12/02/2016 22:24	1	S0280.D	ZB-624 (20) 0.18 (mm)
480-110191-16		12/02/2016 22:47	1	S0281.D	ZB-624 (20) 0.18 (mm)
480-110191-17		12/02/2016 23:10	1	S0282.D	ZB-624 (20) 0.18 (mm)
480-110191-18		12/02/2016 23:33	1	S0283.D	ZB-624 (20) 0.18 (mm)
480-110191-19		12/02/2016 23:56	1	S0284.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 00:19	20		ZB-624 (20) 0.18 (mm)
480-110191-21		12/03/2016 00:42	1	S0286.D	ZB-624 (20) 0.18 (mm)
480-110191-22		12/03/2016 01:05	1	S0287.D	ZB-624 (20) 0.18 (mm)
480-110191-23		12/03/2016 01:29	1	S0288.D	ZB-624 (20) 0.18 (mm)
480-110191-24		12/03/2016 01:52	1	S0289.D	ZB-624 (20) 0.18 (mm)
480-110191-25		12/03/2016 02:15	1	S0290.D	ZB-624 (20) 0.18 (mm)
480-110191-26		12/03/2016 02:38	1	S0291.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 03:01	1		ZB-624 (20) 0.18 (mm)
480-110191-28		12/03/2016 03:24	1	S0293.D	ZB-624 (20) 0.18 (mm)
480-110191-29		12/03/2016 03:47	1	S0294.D	ZB-624 (20) 0.18 (mm)
480-110191-8 MS		12/03/2016 04:10	1	S0295.D	ZB-624 (20) 0.18 (mm)
480-110191-8 MSD		12/03/2016 04:33	1	S0296.D	ZB-624 (20) 0.18 (mm)
480-110191-17 MS		12/03/2016 04:57	1	S0297.D	ZB-624 (20) 0.18 (mm)
480-110191-17 MSD		12/03/2016 05:20	1	S0298.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110191-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 12/03/2016 08:59Analysis Batch Number: 334565End Date: 12/03/2016 22:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-334565/1		12/03/2016 08:59	1	S0302.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-334565/2		12/03/2016 09:31	1	S0303.D	ZB-624 (20) 0.18 (mm)
CCV 480-334565/3		12/03/2016 09:54	1	S0304.D	ZB-624 (20) 0.18 (mm)
RL 480-334565/5		12/03/2016 10:40	1		ZB-624 (20) 0.18 (mm)
LCS 480-334565/7		12/03/2016 11:03	1	S0307.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 11:26	1		ZB-624 (20) 0.18 (mm)
MB 480-334565/6		12/03/2016 11:49	1	S0309.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 12:39	5		ZB-624 (20) 0.18 (mm)
480-110191-20		12/03/2016 13:03	2	S0311.D	ZB-624 (20) 0.18 (mm)
480-110191-21 DL		12/03/2016 13:26	2	S0312.D	ZB-624 (20) 0.18 (mm)
480-110191-27		12/03/2016 13:49	2	S0313.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 14:12	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 14:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 14:58	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 15:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 15:44	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 16:07	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 16:30	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 16:53	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 17:17	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 17:40	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 18:03	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 18:26	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 18:49	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 19:12	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 19:35	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 19:58	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 20:44	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 21:07	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 21:31	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 21:54	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 22:17	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/03/2016 22:40	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA Worksheet

Batch Number: 480-334403

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Dec 02 2016 8:39AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00057	3MTP_WRK_00059
BFB~480-334403/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-334403/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-334403/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
LCS~480-334403/5		8260C			5 mL	5 mL	HP5973S		
MB~480-334403/7		8260C			5 mL	5 mL	HP5973S		
480-110145-D-8	PES-10	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110145-D-10	PES-07	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110145-D-11	PES-08	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110145-D-12	PES-06	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110145-D-13	PES-05	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-1	WELL 1-1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-2	4009-9	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-3	4009-10	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-4	4009-11	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-5	4009-12	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-6	4009-13	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-7	4009-13A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-8	4009-14	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-9	4009-15	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-10	4009-16	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-11	4009-16A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-12	4009-18	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-13	4009-19	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-8~MS4009-14		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-8~MS4009-14 D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-334403

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Dec 02 2016 8:39AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00086	ADD CORP mix_00052	BFB_WRK_00057	GAS CORP mix_00192	S_8260_IS_00197	S_8260_Surr_00174
BFB~480-334403/1		8260C				1 uL			
CCVIS~480-334403/2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-334403/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-334403/5		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
MB~480-334403/7		8260C						1 uL	1 uL
480-110145-D-8	PES-10	8260C	T					1 uL	1 uL
480-110145-D-10	PES-07	8260C	T					1 uL	1 uL
480-110145-D-11	PES-08	8260C	T					1 uL	1 uL
480-110145-D-12	PES-06	8260C	T					1 uL	1 uL
480-110145-D-13	PES-05	8260C	T					1 uL	1 uL
480-110191-A-1	WELL 1-1	8260C	T					1 uL	1 uL
480-110191-A-2	4009-9	8260C	T					1 uL	1 uL
480-110191-A-3	4009-10	8260C	T					1 uL	1 uL
480-110191-A-4	4009-11	8260C	T					1 uL	1 uL
480-110191-A-5	4009-12	8260C	T					1 uL	1 uL
480-110191-A-6	4009-13	8260C	T					1 uL	1 uL
480-110191-A-7	4009-13A	8260C	T					1 uL	1 uL
480-110191-A-8	4009-14	8260C	T					1 uL	1 uL
480-110191-A-9	4009-15	8260C	T					1 uL	1 uL
480-110191-A-10	4009-16	8260C	T					1 uL	1 uL
480-110191-A-11	4009-16A	8260C	T					1 uL	1 uL
480-110191-A-12	4009-18	8260C	T					1 uL	1 uL
480-110191-A-13	4009-19	8260C	T					1 uL	1 uL
480-110191-A-8~MS4009-14		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-110191-A-8~MS4009-14 D		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-334403

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Dec 02 2016 8:39AM

Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-334403/1		8260C		
CCVIS~480-334403/2		8260C		
CCV~480-334403/3		8260C		
LCS~480-334403/5		8260C		
MB~480-334403/7		8260C		
480-110145-D-8	PES-10	8260C	T	
480-110145-D-10	PES-07	8260C	T	
480-110145-D-11	PES-08	8260C	T	
480-110145-D-12	PES-06	8260C	T	
480-110145-D-13	PES-05	8260C	T	
480-110191-A-1	WELL 1-1	8260C	T	
480-110191-A-2	4009-9	8260C	T	
480-110191-A-3	4009-10	8260C	T	
480-110191-A-4	4009-11	8260C	T	
480-110191-A-5	4009-12	8260C	T	
480-110191-A-6	4009-13	8260C	T	
480-110191-A-7	4009-13A	8260C	T	
480-110191-A-8	4009-14	8260C	T	
480-110191-A-9	4009-15	8260C	T	
480-110191-A-10	4009-16	8260C	T	
480-110191-A-11	4009-16A	8260C	T	
480-110191-A-12	4009-18	8260C	T	
480-110191-A-13	4009-19	8260C	T	
480-110191-A-8~MS4009-14		8260C	T	not ADD spiked
480-110191-A-8~MS4009-14 D		8260C	T	not ADD spiked

GC/MS VOA Worksheet

Batch Number: 480-334536

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Dec 02 2016 7:24PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00057	3MTP_WRK_00059
BFB~480-334536/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-334536/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-334536/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
LCS~480-334536/4		8260C			5 mL	5 mL	HP5973S		
MB~480-334536/6		8260C			5 mL	5 mL	HP5973S		
480-110191-B-8~MS4009-14		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-B-8~MS4009-14 D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-14 4009-21		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-15 4009-22		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-16 4009-27S		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-17 4009-27I		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-17~M4009-27I S		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-17~M4009-27I SD		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-18 4009-27D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-19 4009-28		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-20 4009-29S		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-21 4009-29I		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-22 4009-29D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-23 4009-30		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-24 4009-30A		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-25 4009-11A		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-26 DUP-1		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-27 DUP-2		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-28 FIELD BLANK		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-A-29 TRIP BLANK		8260C	T	<2 SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-334536

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Dec 02 2016 7:24PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00086	ADD CORP mix_00052	BFB_WRK_00057	GAS CORP mix_00193	S_8260_IS_00197	S_8260_Surr_00174
BFB~480-334536/1		8260C				1 uL			
CCVIS~480-334536/2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-334536/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-334536/4		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
MB~480-334536/6		8260C						1 uL	1 uL
480-110191-B-8~MS4009-14		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-110191-B-8~MS4009-14		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
D									
480-110191-A-14 4009-21		8260C	T					1 uL	1 uL
480-110191-A-15 4009-22		8260C	T					1 uL	1 uL
480-110191-A-16 4009-27S		8260C	T					1 uL	1 uL
480-110191-A-17 4009-27I		8260C	T					1 uL	1 uL
480-110191-A-17~M4009-27I		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
S									
480-110191-A-17~M4009-27I		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
SD									
480-110191-A-18 4009-27D		8260C	T					1 uL	1 uL
480-110191-A-19 4009-28		8260C	T					1 uL	1 uL
480-110191-A-20 4009-29S		8260C	T					1 uL	1 uL
480-110191-A-21 4009-29I		8260C	T					1 uL	1 uL
480-110191-A-22 4009-29D		8260C	T					1 uL	1 uL
480-110191-A-23 4009-30		8260C	T					1 uL	1 uL
480-110191-A-24 4009-30A		8260C	T					1 uL	1 uL
480-110191-A-25 4009-11A		8260C	T					1 uL	1 uL
480-110191-A-26 DUP-1		8260C	T					1 uL	1 uL
480-110191-A-27 DUP-2		8260C	T					1 uL	1 uL
480-110191-A-28 FIELD BLANK		8260C	T					1 uL	1 uL
480-110191-A-29 TRIP BLANK		8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-334536

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Dec 02 2016 7:24PM

Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-334536/1		8260C		
CCVIS~480-334536/2		8260C		
CCV~480-334536/3		8260C		
LCS~480-334536/4		8260C		
MB~480-334536/6		8260C		
480-110191-B-8~MS4009-14		8260C	T	
480-110191-B-8~MS4009-14 D		8260C	T	
480-110191-A-14 4009-21		8260C	T	
480-110191-A-15 4009-22		8260C	T	
480-110191-A-16 4009-27S		8260C	T	
480-110191-A-17 4009-27I		8260C	T	
480-110191-A-17~M4009-27I S		8260C	T	
480-110191-A-17~M4009-27I SD		8260C	T	
480-110191-A-18 4009-27D		8260C	T	
480-110191-A-19 4009-28		8260C	T	
480-110191-A-20 4009-29S		8260C	T	needs a 2x
480-110191-A-21 4009-29I		8260C	T	
480-110191-A-22 4009-29D		8260C	T	
480-110191-A-23 4009-30		8260C	T	
480-110191-A-24 4009-30A		8260C	T	
480-110191-A-25 4009-11A		8260C	T	
480-110191-A-26 DUP-1		8260C	T	
480-110191-A-27 DUP-2		8260C	T	was run at a 20x needs a 2 x
480-110191-A-28 FIELD BLANK		8260C	T	
480-110191-A-29 TRIP BLANK		8260C	T	

GC/MS VOA Worksheet

Batch Number: 480-334565

Method: 8260C

Analyst: Archer, Nicholas E

Date Open: Dec 03 2016 8:59AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00057	3MTP_WRK_00059
BFB~480-334565/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-334565/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-334565/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
RL~480-334565/5					5 mL	5 mL	HP5973S		
MB~480-334565/6		8260C			5 mL	5 mL	HP5973S		
LCS~480-334565/7		8260C			5 mL	5 mL	HP5973S		
IBLK					5 mL	5 mL	HP5973S		
480-110145-D-9	PES-17	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-B-20	4009-29S	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-B-21	4009-29I	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110191-B-27	DUP-2	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110220-A-1	WELL 1-2A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110220-A-2	WELL 1-3	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110220-A-3	TRIP BLANK 112816	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110285-K-1	DGC-1D	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110285-K-2	DGC-1I	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110285-L-3	DGC-1SB	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110285-A-4	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110310-E-15	MW-29	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110310-E-16	MW-31	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110310-E-17	MW-32	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110364-A-3	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110381-I-1	MW-32	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110381-I-2	MW-33	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110381-I-3	MW-34	8260C	T	<2 SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-334565

Method: 8260C

Analyst: Archer, Nicholas E

Date Open: Dec 03 2016 8:59AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00086	ADD CORP mix_00052	BFB_WRK_00057	GAS CORP mix_00193	S_8260_IS_00197	S_8260_Surr_00174
BFB~480-334565/1		8260C				1 uL			
CCVIS~480-334565/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-334565/3		8260C			12.5 uL			1 uL	1 uL
RL~480-334565/5							1 uL	1 uL	1 uL
MB~480-334565/6		8260C						1 uL	1 uL
LCS~480-334565/7		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
IBLK								1 uL	1 uL
480-110145-D-9	PES-17	8260C	T					1 uL	1 uL
480-110191-B-20	4009-29S	8260C	T					1 uL	1 uL
480-110191-B-21	4009-29I	8260C	T					1 uL	1 uL
480-110191-B-27	DUP-2	8260C	T					1 uL	1 uL
480-110220-A-1	WELL 1-2A	8260C	T					1 uL	1 uL
480-110220-A-2	WELL 1-3	8260C	T					1 uL	1 uL
480-110220-A-3	TRIP BLANK 112816	8260C	T					1 uL	1 uL
480-110285-K-1	DGC-1D	8260C	T					1 uL	1 uL
480-110285-K-2	DGC-1I	8260C	T					1 uL	1 uL
480-110285-L-3	DGC-1SB	8260C	T					1 uL	1 uL
480-110285-A-4	TRIP BLANK	8260C	T					1 uL	1 uL
480-110310-E-15	MW-29	8260C	T					1 uL	1 uL
480-110310-E-16	MW-31	8260C	T					1 uL	1 uL
480-110310-E-17	MW-32	8260C	T					1 uL	1 uL
480-110364-A-3	TRIP BLANK	8260C	T					1 uL	1 uL
480-110381-I-1	MW-32	8260C	T					1 uL	1 uL
480-110381-I-2	MW-33	8260C	T					1 uL	1 uL
480-110381-I-3	MW-34	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-334565

Method: 8260C

Analyst: Archer, Nicholas E

Date Open: Dec 03 2016 8:59AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00057	3MTP_WRK_00059
480-110145-D-9~M S		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-110145-D-9~M SD		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-109981-A-3	VOA #6 WATER	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-109981-A-4	VOA #7 WATER	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-109981-A-5	VOA #8 WATER	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-109981-A-6	GC #11 WATER	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-109981-A-8	MB #15 WATER	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-109981-A-9	SC #5 WATER	8260C	T	<2 SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-334565

Method: 8260C

Analyst: Archer, Nicholas E

Date Open: Dec 03 2016 8:59AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00086	ADD CORP mix_00052	BFB_WRK_00057	GAS CORP mix_00193	S_8260_IS_00197	S_8260_Surr_00174
480-110145-D-9~M S		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-110145-D-9~M SD		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-109981-A-3	VOA #6 WATER	8260C	T					1 uL	1 uL
480-109981-A-4	VOA #7 WATER	8260C	T					1 uL	1 uL
480-109981-A-5	VOA #8 WATER	8260C	T					1 uL	1 uL
480-109981-A-6	GC #11 WATER	8260C	T					1 uL	1 uL
480-109981-A-8	MB #15 WATER	8260C	T					1 uL	1 uL
480-109981-A-9	SC #5 WATER	8260C	T					1 uL	1 uL

Shipping and Receiving Documents

Chain of Custody Record

[illegible]

Chain of Custody Record

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-89214-18519.2	
Client Contact: Ms. Katie Bidwell		Phone: 315 720 7344		E-Mail: judy.stone@testamericainc.com		Page: Page 2 of 4	
Company: ARCADIS U.S. Inc		Due Date Requested:		Analysis Requested		Job #:	
Address: 855 Route 146 Suite 210		TAT Requested (days):		8260C - (MOD) TCL list OLM04.2 + TMBs		Preservation Codes:	
City: Clifton Park		PO #:		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: NY, 12065		Project #: 00266401.0000		Matrix (W=Water, S=solid, O=waterfall, BT=Tissue, A=Air)		Other:	
Phone: 518-250-7300(Tel)		WO #:		Sample Type (C=Comp, G=grab)		Total Number of Containers	
Email: katie.bidwell@arcadis-us.com		Contract D007618		Sample Time		Special Instructions/Note:	
Project Name: NYSDEC-Standby VESTAL		Project #:		Sample Date			
Site:		SSOW#:					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=waterfall, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Analysis Requested	Special Instructions/Note:
4009-16	11/29/16	1206	G	Water			
4009-16A		1155	G	Water			
4009-18		1110	G	Water			
4009-19		1120	G	Water			
4009-21		1115	G	Water			
4009-22		1025	G	Water			
4009-27S		1410	G	Water			
4009-27I		1405	G	Water			
4009-27D		1400	G	Water			
4009-28		1015	G	Water			
4009-29S		1345	G	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:		Date:		Time:		Method of Shipment:	
Relinquished by: [Signature]		11/29/16		1105		Acad's	
Relinquished by: [Signature]		11/29/16		1800		THA AB	
Relinquished by: [Signature]		11/29/16		11:05		THA AB	

Custody Seal No.: ☐ Yes ☒ No	Cooler Temperature(s) °C and Other Remarks: 0.9 #1

Chain of Custody Record

[illegible]

Custody Seal No.:	09 #1
Custody Seals Intact Δ Yes Δ No	09 #1
Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-110191-1

Login Number: 110191

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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 (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-110220-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

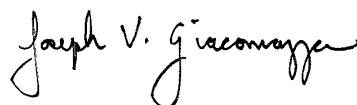
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

12/6/2016 10:40:43 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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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.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Job ID: 480-110220-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110220-1

Receipt

The samples were received on 11/30/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-334565 recovered outside acceptance criteria, low biased, for Chloromethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. WELL 1-2A (480-110220-1), WELL 1-3 (480-110220-2) and TRIP BLANK 112816 (480-110220-3).

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-110220-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-110220-2

No Detections.

Client Sample ID: TRIP BLANK 112816

Lab Sample ID: 480-110220-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-110220-1

Date Collected: 11/28/16 10:50

Matrix: Water

Date Received: 11/30/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 14:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 14:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 14:12	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 14:12	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 14:12	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 14:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 14:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 14:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 14:12	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 14:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 14:12	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 14:12	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 14:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 14:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 14:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 14:12	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 14:12	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 14:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 14:12	1
Acetone	10	U	10	3.0	ug/L			12/03/16 14:12	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 14:12	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 14:12	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 14:12	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 14:12	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 14:12	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 14:12	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 14:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 14:12	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 14:12	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 14:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 14:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 14:12	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 14:12	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 14:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 14:12	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 14:12	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 14:12	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 14:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 14:12	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 14:12	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 14:12	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 14:12	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 14:12	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 14:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 14:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 14:12	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 14:12	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 14:12	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-110220-1

Date Collected: 11/28/16 10:50

Matrix: Water

Date Received: 11/30/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 14:12	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					12/03/16 14:12	1
4-Bromofluorobenzene (Surr)	94		73 - 120					12/03/16 14:12	1
Dibromofluoromethane (Surr)	102		75 - 123					12/03/16 14:12	1
Toluene-d8 (Surr)	99		80 - 120					12/03/16 14:12	1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-110220-2

Date Collected: 11/28/16 10:45

Matrix: Water

Date Received: 11/30/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 14:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 14:35	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 14:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 14:35	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 14:35	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 14:35	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 14:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 14:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 14:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 14:35	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 14:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 14:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 14:35	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 14:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 14:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 14:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 14:35	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 14:35	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 14:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 14:35	1
Acetone	10	U	10	3.0	ug/L			12/03/16 14:35	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 14:35	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 14:35	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 14:35	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 14:35	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 14:35	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 14:35	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 14:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 14:35	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 14:35	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 14:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 14:35	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 14:35	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 14:35	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-110220-2

Date Collected: 11/28/16 10:45

Matrix: Water

Date Received: 11/30/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 14:35	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 14:35	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 14:35	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 14:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 14:35	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 14:35	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 14:35	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 14:35	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 14:35	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 14:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 14:35	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 14:35	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 14:35	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 14:35	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/03/16 14:35	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/03/16 14:35	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 14:35	1
Toluene-d8 (Surr)	100		80 - 120		12/03/16 14:35	1

Client Sample ID: TRIP BLANK 112816

Lab Sample ID: 480-110220-3

Date Collected: 11/28/16 00:00

Matrix: Water

Date Received: 11/30/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/03/16 14:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 14:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 14:58	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 14:58	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 14:58	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 14:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 14:58	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 14:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 14:58	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 14:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 14:58	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 14:58	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 14:58	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 14:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 14:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 14:58	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 14:58	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 14:58	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 14:58	1
Acetone	10	U	10	3.0	ug/L			12/03/16 14:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Client Sample ID: TRIP BLANK 112816

Lab Sample ID: 480-110220-3

Date Collected: 11/28/16 00:00

Matrix: Water

Date Received: 11/30/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 14:58	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 14:58	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 14:58	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 14:58	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 14:58	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 14:58	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 14:58	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 14:58	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 14:58	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 14:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 14:58	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 14:58	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 14:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 14:58	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 14:58	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 14:58	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 14:58	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 14:58	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 14:58	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 14:58	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 14:58	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 14:58	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 14:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 14:58	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 14:58	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 14:58	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 14:58	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/03/16 14:58	1
4-Bromofluorobenzene (Surr)	93		73 - 120		12/03/16 14:58	1
Dibromofluoromethane (Surr)	103		75 - 123		12/03/16 14:58	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 14:58	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

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 (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-110220-1	WELL 1-2A	102	94	102	99
480-110220-2	WELL 1-3	100	92	100	100
480-110220-3	TRIP BLANK 112816	105	93	103	101
LCS 480-334565/7	Lab Control Sample	102	93	98	100
MB 480-334565/6	Method Blank	102	92	102	99

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

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

Lab Sample ID: MB 480-334565/6

Matrix: Water

Analysis Batch: 334565

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	1.0	U	1.0	0.82	ug/L			12/03/16 11:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 11:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/03/16 11:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/03/16 11:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/03/16 11:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/03/16 11:49	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/03/16 11:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/03/16 11:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/03/16 11:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/03/16 11:49	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/03/16 11:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/03/16 11:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/03/16 11:49	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/03/16 11:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/03/16 11:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/03/16 11:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/03/16 11:49	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/03/16 11:49	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/03/16 11:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/03/16 11:49	1
Acetone	10	U	10	3.0	ug/L			12/03/16 11:49	1
Benzene	1.0	U	1.0	0.41	ug/L			12/03/16 11:49	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/03/16 11:49	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/03/16 11:49	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/03/16 11:49	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/03/16 11:49	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/03/16 11:49	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/03/16 11:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/03/16 11:49	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/03/16 11:49	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/03/16 11:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/03/16 11:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/03/16 11:49	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/03/16 11:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/03/16 11:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/03/16 11:49	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/03/16 11:49	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/03/16 11:49	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/03/16 11:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/03/16 11:49	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/03/16 11:49	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/03/16 11:49	1
Styrene	1.0	U	1.0	0.73	ug/L			12/03/16 11:49	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/03/16 11:49	1
Toluene	1.0	U	1.0	0.51	ug/L			12/03/16 11:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/03/16 11:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/03/16 11:49	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/03/16 11:49	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

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

Lab Sample ID: MB 480-334565/6

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/03/16 11:49	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/03/16 11:49	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/03/16 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 11:49	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/03/16 11:49	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 11:49	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 11:49	1

Lab Sample ID: LCS 480-334565/7

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		94	61 - 148
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,2,3-Trimethylbenzene	25.0	27.2		ug/L		109	78 - 120
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	56 - 134
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	25.1		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	77 - 121
1,3-Dichlorobenzene	25.0	26.4		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 120
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	105		ug/L		84	65 - 127
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	27.1		ug/L		108	61 - 132
Bromomethane	25.0	21.5		ug/L		86	55 - 144
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	80 - 120
Chloroethane	25.0	29.7		ug/L		119	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	27.3		ug/L		109	68 - 124
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

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

Lab Sample ID: LCS 480-334565/7

Matrix: Water

Analysis Batch: 334565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124
Cyclohexane	25.0	24.8		ug/L		99	59 - 135
Dibromochloromethane	25.0	26.1		ug/L		105	75 - 125
Dichlorodifluoromethane	25.0	28.1		ug/L		112	59 - 135
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123
Isopropylbenzene	25.0	25.8		ug/L		103	77 - 122
Methyl acetate	125	106		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	25.7		ug/L		103	68 - 134
Methylene Chloride	25.0	23.4		ug/L		94	75 - 124
Styrene	25.0	24.4		ug/L		98	80 - 120
Tetrachloroethene	25.0	25.4		ug/L		101	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		103	80 - 120
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	25.6		ug/L		102	62 - 150
Vinyl chloride	25.0	30.2		ug/L		121	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	100		80 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

GC/MS VOA

Analysis Batch: 334565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110220-1	WELL 1-2A	Total/NA	Water	8260C	
480-110220-2	WELL 1-3	Total/NA	Water	8260C	
480-110220-3	TRIP BLANK 112816	Total/NA	Water	8260C	
MB 480-334565/6	Method Blank	Total/NA	Water	8260C	
LCS 480-334565/7	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Client Sample ID: WELL 1-2A

Date Collected: 11/28/16 10:50

Date Received: 11/30/16 09:40

Lab Sample ID: 480-110220-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334565	12/03/16 14:12	NEA	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 11/28/16 10:45

Date Received: 11/30/16 09:40

Lab Sample ID: 480-110220-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334565	12/03/16 14:35	NEA	TAL BUF

Client Sample ID: TRIP BLANK 112816

Date Collected: 11/28/16 00:00

Date Received: 11/30/16 09:40

Lab Sample ID: 480-110220-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334565	12/03/16 14:58	NEA	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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-110220-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110220-1	WELL 1-2A	Water	11/28/16 10:50	11/30/16 09:40
480-110220-2	WELL 1-3	Water	11/28/16 10:45	11/30/16 09:40
480-110220-3	TRIP BLANK 112816	Water	11/28/16 00:00	11/30/16 09:40

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State/Zip: NY, 12065 Phone: 518-250-7300 (Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site:		Due Date Requested: TAT Requested (days): STD PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Carrier Tracking No(s): COC No: 480-86491-181 Page: Page 1 of 1 Job #: 480-110220 COC	
Analysis Requested					
Field Filtered Sample (Yes or No)		8260C - (MOD) TCL list OLM04.2		Total Number of Containers	
Sample Identification Well 1-2A Well 1-3 Trip Blank 1128/16		Sample Date 11/28/16 11/28/16 11/28/16	Sample Time 1050 1045 -	Sample Type G G -	Matrix Water Water Water
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:					
Special Instructions/Note:					
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: ☒ Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: Katie Bidwell		Date: 11/28/16 1150		Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No		3.1		3.1	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-110220-1

Login Number: 110220

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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 (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-111673-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

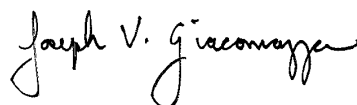
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

1/4/2017 11:50:57 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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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.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Job ID: 480-111673-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-111673-1

Receipt

The samples were received on 12/30/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-338610 recovered outside acceptance criteria, low biased, for Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: WELL 1-2A (480-111673-1), WELL 1-3 (480-111673-2) and TRIP BLANK 122916 (480-111673-3).

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-111673-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-111673-2

No Detections.

Client Sample ID: TRIP BLANK 122916

Lab Sample ID: 480-111673-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-111673-1

Date Collected: 12/29/16 09:15

Matrix: Water

Date Received: 12/30/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			01/03/17 15:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/03/17 15:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			01/03/17 15:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			01/03/17 15:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			01/03/17 15:18	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			01/03/17 15:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			01/03/17 15:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			01/03/17 15:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			01/03/17 15:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			01/03/17 15:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			01/03/17 15:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 15:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			01/03/17 15:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			01/03/17 15:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			01/03/17 15:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			01/03/17 15:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			01/03/17 15:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			01/03/17 15:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			01/03/17 15:18	1
Acetone	10	U	10	3.0	ug/L			01/03/17 15:18	1
Benzene	1.0	U	1.0	0.41	ug/L			01/03/17 15:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			01/03/17 15:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			01/03/17 15:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			01/03/17 15:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			01/03/17 15:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			01/03/17 15:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			01/03/17 15:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/03/17 15:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			01/03/17 15:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			01/03/17 15:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			01/03/17 15:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			01/03/17 15:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			01/03/17 15:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			01/03/17 15:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			01/03/17 15:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			01/03/17 15:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			01/03/17 15:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			01/03/17 15:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			01/03/17 15:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			01/03/17 15:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			01/03/17 15:18	1
Styrene	1.0	U	1.0	0.73	ug/L			01/03/17 15:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			01/03/17 15:18	1
Toluene	1.0	U	1.0	0.51	ug/L			01/03/17 15:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			01/03/17 15:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			01/03/17 15:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			01/03/17 15:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			01/03/17 15:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Client Sample ID: WELL 1-2A

Date Collected: 12/29/16 09:15

Date Received: 12/30/16 09:45

Lab Sample ID: 480-111673-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			01/03/17 15:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			01/03/17 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					01/03/17 15:18	1
4-Bromofluorobenzene (Surr)	100		73 - 120					01/03/17 15:18	1
Dibromofluoromethane (Surr)	108		75 - 123					01/03/17 15:18	1
Toluene-d8 (Surr)	96		80 - 120					01/03/17 15:18	1

Client Sample ID: WELL 1-3

Date Collected: 12/29/16 09:10

Date Received: 12/30/16 09:45

Lab Sample ID: 480-111673-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			01/03/17 15:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/03/17 15:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			01/03/17 15:42	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			01/03/17 15:42	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			01/03/17 15:42	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			01/03/17 15:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			01/03/17 15:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			01/03/17 15:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			01/03/17 15:42	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			01/03/17 15:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			01/03/17 15:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 15:42	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			01/03/17 15:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			01/03/17 15:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			01/03/17 15:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			01/03/17 15:42	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			01/03/17 15:42	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			01/03/17 15:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			01/03/17 15:42	1
Acetone	10	U	10	3.0	ug/L			01/03/17 15:42	1
Benzene	1.0	U	1.0	0.41	ug/L			01/03/17 15:42	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			01/03/17 15:42	1
Bromoform	1.0	U	1.0	0.26	ug/L			01/03/17 15:42	1
Bromomethane	1.0	U	1.0	0.69	ug/L			01/03/17 15:42	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			01/03/17 15:42	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			01/03/17 15:42	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			01/03/17 15:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/03/17 15:42	1
Chloroform	1.0	U	1.0	0.34	ug/L			01/03/17 15:42	1
Chloromethane	1.0	U	1.0	0.35	ug/L			01/03/17 15:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			01/03/17 15:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			01/03/17 15:42	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			01/03/17 15:42	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			01/03/17 15:42	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-111673-2

Date Collected: 12/29/16 09:10

Matrix: Water

Date Received: 12/30/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			01/03/17 15:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			01/03/17 15:42	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			01/03/17 15:42	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			01/03/17 15:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			01/03/17 15:42	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			01/03/17 15:42	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			01/03/17 15:42	1
Styrene	1.0	U	1.0	0.73	ug/L			01/03/17 15:42	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			01/03/17 15:42	1
Toluene	1.0	U	1.0	0.51	ug/L			01/03/17 15:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			01/03/17 15:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			01/03/17 15:42	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			01/03/17 15:42	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			01/03/17 15:42	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			01/03/17 15:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			01/03/17 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		01/03/17 15:42	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/03/17 15:42	1
Dibromofluoromethane (Surr)	103		75 - 123		01/03/17 15:42	1
Toluene-d8 (Surr)	96		80 - 120		01/03/17 15:42	1

Client Sample ID: TRIP BLANK 122916

Lab Sample ID: 480-111673-3

Date Collected: 12/29/16 00:00

Matrix: Water

Date Received: 12/30/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			01/03/17 16:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 16:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/03/17 16:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			01/03/17 16:05	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			01/03/17 16:05	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			01/03/17 16:05	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			01/03/17 16:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			01/03/17 16:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			01/03/17 16:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			01/03/17 16:05	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			01/03/17 16:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			01/03/17 16:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 16:05	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			01/03/17 16:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			01/03/17 16:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			01/03/17 16:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			01/03/17 16:05	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			01/03/17 16:05	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			01/03/17 16:05	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			01/03/17 16:05	1
Acetone	10	U	10	3.0	ug/L			01/03/17 16:05	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Client Sample ID: TRIP BLANK 122916

Lab Sample ID: 480-111673-3

Date Collected: 12/29/16 00:00

Matrix: Water

Date Received: 12/30/16 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			01/03/17 16:05	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			01/03/17 16:05	1
Bromoform	1.0	U	1.0	0.26	ug/L			01/03/17 16:05	1
Bromomethane	1.0	U	1.0	0.69	ug/L			01/03/17 16:05	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			01/03/17 16:05	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			01/03/17 16:05	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			01/03/17 16:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/03/17 16:05	1
Chloroform	1.0	U	1.0	0.34	ug/L			01/03/17 16:05	1
Chloromethane	1.0	U	1.0	0.35	ug/L			01/03/17 16:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			01/03/17 16:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			01/03/17 16:05	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			01/03/17 16:05	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			01/03/17 16:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			01/03/17 16:05	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			01/03/17 16:05	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			01/03/17 16:05	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			01/03/17 16:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			01/03/17 16:05	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			01/03/17 16:05	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			01/03/17 16:05	1
Styrene	1.0	U	1.0	0.73	ug/L			01/03/17 16:05	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			01/03/17 16:05	1
Toluene	1.0	U	1.0	0.51	ug/L			01/03/17 16:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			01/03/17 16:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			01/03/17 16:05	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			01/03/17 16:05	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			01/03/17 16:05	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			01/03/17 16:05	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			01/03/17 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		01/03/17 16:05	1
4-Bromofluorobenzene (Surr)	100		73 - 120		01/03/17 16:05	1
Dibromofluoromethane (Surr)	108		75 - 123		01/03/17 16:05	1
Toluene-d8 (Surr)	94		80 - 120		01/03/17 16:05	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

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 (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-111673-1	WELL 1-2A	111	100	108	96
480-111673-2	WELL 1-3	106	99	103	96
480-111673-3	TRIP BLANK 122916	107	100	108	94
LCS 480-338610/6	Lab Control Sample	102	105	102	98
LCSD 480-338610/7	Lab Control Sample Dup	102	101	101	95
MB 480-338610/9	Method Blank	103	100	103	97

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

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

Lab Sample ID: MB 480-338610/9

Matrix: Water

Analysis Batch: 338610

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	1.0	U	1.0	0.82	ug/L			01/03/17 11:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/03/17 11:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			01/03/17 11:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			01/03/17 11:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			01/03/17 11:36	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			01/03/17 11:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			01/03/17 11:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			01/03/17 11:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			01/03/17 11:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			01/03/17 11:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			01/03/17 11:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			01/03/17 11:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			01/03/17 11:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			01/03/17 11:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			01/03/17 11:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			01/03/17 11:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			01/03/17 11:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			01/03/17 11:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			01/03/17 11:36	1
Acetone	10	U	10	3.0	ug/L			01/03/17 11:36	1
Benzene	1.0	U	1.0	0.41	ug/L			01/03/17 11:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			01/03/17 11:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			01/03/17 11:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			01/03/17 11:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			01/03/17 11:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			01/03/17 11:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			01/03/17 11:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/03/17 11:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			01/03/17 11:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			01/03/17 11:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			01/03/17 11:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			01/03/17 11:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			01/03/17 11:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			01/03/17 11:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			01/03/17 11:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			01/03/17 11:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			01/03/17 11:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			01/03/17 11:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			01/03/17 11:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			01/03/17 11:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			01/03/17 11:36	1
Styrene	1.0	U	1.0	0.73	ug/L			01/03/17 11:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			01/03/17 11:36	1
Toluene	1.0	U	1.0	0.51	ug/L			01/03/17 11:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			01/03/17 11:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			01/03/17 11:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			01/03/17 11:36	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

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

Lab Sample ID: MB 480-338610/9

Matrix: Water

Analysis Batch: 338610

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			01/03/17 11:36	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			01/03/17 11:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			01/03/17 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		01/03/17 11:36	1
4-Bromofluorobenzene (Surr)	100		73 - 120		01/03/17 11:36	1
Dibromofluoromethane (Surr)	103		75 - 123		01/03/17 11:36	1
Toluene-d8 (Surr)	97		80 - 120		01/03/17 11:36	1

Lab Sample ID: LCS 480-338610/6

Matrix: Water

Analysis Batch: 338610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		88	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.0		ug/L		88	61 - 148
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	76 - 122
1,1-Dichloroethane	25.0	23.7		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	21.5		ug/L		86	66 - 127
1,2,3-Trimethylbenzene	25.0	22.9		ug/L		92	78 - 120
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	79 - 122
1,2,4-Trimethylbenzene	25.0	21.8		ug/L		87	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	56 - 134
1,2-Dibromoethane	25.0	22.1		ug/L		88	77 - 120
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	80 - 124
1,2-Dichloroethane	25.0	23.2		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120
1,3,5-Trimethylbenzene	25.0	22.0		ug/L		88	77 - 121
1,3-Dichlorobenzene	25.0	22.5		ug/L		90	77 - 120
1,4-Dichlorobenzene	25.0	22.2		ug/L		89	80 - 120
2-Butanone (MEK)	125	129		ug/L		104	57 - 140
2-Hexanone	125	127		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	112		ug/L		89	56 - 142
Benzene	25.0	22.2		ug/L		89	71 - 124
Bromodichloromethane	25.0	23.8		ug/L		95	80 - 122
Bromoform	25.0	25.4		ug/L		102	61 - 132
Bromomethane	25.0	23.5		ug/L		94	55 - 144
Carbon disulfide	25.0	20.8		ug/L		83	59 - 134
Carbon tetrachloride	25.0	25.2		ug/L		101	72 - 134
Chlorobenzene	25.0	22.7		ug/L		91	80 - 120
Chloroethane	25.0	23.7		ug/L		95	69 - 136
Chloroform	25.0	22.2		ug/L		89	73 - 127
Chloromethane	25.0	24.1		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

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

Lab Sample ID: LCS 480-338610/6

Matrix: Water

Analysis Batch: 338610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	74 - 124
Cyclohexane	25.0	23.6		ug/L		94	59 - 135
Dibromochloromethane	25.0	24.9		ug/L		100	75 - 125
Dichlorodifluoromethane	25.0	21.8		ug/L		87	59 - 135
Ethylbenzene	25.0	22.9		ug/L		92	77 - 123
Isopropylbenzene	25.0	21.9		ug/L		87	77 - 122
Methyl acetate	125	121		ug/L		97	74 - 133
Methyl tert-butyl ether	25.0	21.9		ug/L		87	77 - 120
Methylcyclohexane	25.0	23.4		ug/L		94	68 - 134
Methylene Chloride	25.0	22.6		ug/L		90	75 - 124
Styrene	25.0	22.9		ug/L		92	80 - 120
Tetrachloroethene	25.0	23.7		ug/L		95	74 - 122
Toluene	25.0	22.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	23.0		ug/L		92	80 - 120
Trichloroethene	25.0	22.9		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	22.9		ug/L		92	62 - 150
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 480-338610/7

Matrix: Water

Analysis Batch: 338610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	73 - 126	5	15
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	76 - 120	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.5		ug/L		82	61 - 148	7	20
1,1,2-Trichloroethane	25.0	21.6		ug/L		87	76 - 122	1	15
1,1-Dichloroethane	25.0	22.7		ug/L		91	77 - 120	4	20
1,1-Dichloroethene	25.0	20.0		ug/L		80	66 - 127	7	16
1,2,3-Trimethylbenzene	25.0	22.9		ug/L		91	78 - 120	0	20
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	79 - 122	3	20
1,2,4-Trimethylbenzene	25.0	21.6		ug/L		86	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	56 - 134	1	15
1,2-Dibromoethane	25.0	21.9		ug/L		88	77 - 120	1	15
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	80 - 124	0	20
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120	2	20
1,2-Dichloropropane	25.0	23.0		ug/L		92	76 - 120	4	20
1,3,5-Trimethylbenzene	25.0	22.0		ug/L		88	77 - 121	0	20
1,3-Dichlorobenzene	25.0	22.0		ug/L		88	77 - 120	2	20
1,4-Dichlorobenzene	25.0	21.6		ug/L		86	80 - 120	3	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

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

Lab Sample ID: LCSD 480-338610/7

Matrix: Water

Analysis Batch: 338610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	125	122		ug/L		98	57 - 140	6	20
2-Hexanone	125	124		ug/L		100	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	71 - 125	2	35
Acetone	125	110		ug/L		88	56 - 142	1	15
Benzene	25.0	21.4		ug/L		86	71 - 124	4	13
Bromodichloromethane	25.0	23.6		ug/L		94	80 - 122	1	15
Bromoform	25.0	25.1		ug/L		100	61 - 132	1	15
Bromomethane	25.0	22.0		ug/L		88	55 - 144	7	15
Carbon disulfide	25.0	19.4		ug/L		78	59 - 134	7	15
Carbon tetrachloride	25.0	23.5		ug/L		94	72 - 134	7	15
Chlorobenzene	25.0	21.8		ug/L		87	80 - 120	4	25
Chloroethane	25.0	21.6		ug/L		86	69 - 136	9	15
Chloroform	25.0	21.0		ug/L		84	73 - 127	5	20
Chloromethane	25.0	22.9		ug/L		92	68 - 124	5	15
cis-1,2-Dichloroethene	25.0	21.9		ug/L		88	74 - 124	3	15
cis-1,3-Dichloropropene	25.0	22.3		ug/L		89	74 - 124	5	15
Cyclohexane	25.0	22.0		ug/L		88	59 - 135	7	20
Dibromochloromethane	25.0	23.9		ug/L		96	75 - 125	4	15
Dichlorodifluoromethane	25.0	20.7		ug/L		83	59 - 135	5	20
Ethylbenzene	25.0	21.4		ug/L		86	77 - 123	7	15
Isopropylbenzene	25.0	21.6		ug/L		86	77 - 122	1	20
Methyl acetate	125	122		ug/L		98	74 - 133	1	20
Methyl tert-butyl ether	25.0	21.4		ug/L		86	77 - 120	2	37
Methylcyclohexane	25.0	21.7		ug/L		87	68 - 134	8	20
Methylene Chloride	25.0	22.0		ug/L		88	75 - 124	3	15
Styrene	25.0	22.1		ug/L		88	80 - 120	4	20
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122	5	20
Toluene	25.0	21.1		ug/L		84	80 - 122	6	15
trans-1,2-Dichloroethene	25.0	21.3		ug/L		85	73 - 127	7	20
trans-1,3-Dichloropropene	25.0	21.4		ug/L		86	80 - 120	7	15
Trichloroethene	25.0	22.5		ug/L		90	74 - 123	2	16
Trichlorofluoromethane	25.0	22.0		ug/L		88	62 - 150	4	20
Vinyl chloride	25.0	22.0		ug/L		88	65 - 133	5	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	95		80 - 120

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

GC/MS VOA

Analysis Batch: 338610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-111673-1	WELL 1-2A	Total/NA	Water	8260C	
480-111673-2	WELL 1-3	Total/NA	Water	8260C	
480-111673-3	TRIP BLANK 122916	Total/NA	Water	8260C	
MB 480-338610/9	Method Blank	Total/NA	Water	8260C	
LCS 480-338610/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-338610/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Client Sample ID: WELL 1-2A

Date Collected: 12/29/16 09:15

Date Received: 12/30/16 09:45

Lab Sample ID: 480-111673-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	338610	01/03/17 15:18	RRS	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 12/29/16 09:10

Date Received: 12/30/16 09:45

Lab Sample ID: 480-111673-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	338610	01/03/17 15:42	RRS	TAL BUF

Client Sample ID: TRIP BLANK 122916

Date Collected: 12/29/16 00:00

Date Received: 12/30/16 09:45

Lab Sample ID: 480-111673-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	338610	01/03/17 16:05	RRS	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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-111673-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-111673-1	WELL 1-2A	Water	12/29/16 09:15	12/30/16 09:45
480-111673-2	WELL 1-3	Water	12/29/16 09:10	12/30/16 09:45
480-111673-3	TRIP BLANK 122916	Water	12/29/16 00:00	12/30/16 09:45

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7300(Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site:		Sampler: L. Whalen Lab PM: Stone, Judy L. Phone: (315) 436-5041 E-Mail: judy.stone@testamericainc.com		Carrier Tracking No(s): 480-111673 COC Page: 480-8642 Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): STD PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested			
Sample Identification Well 1-2A Well 1-3 Trip Blank 12-29-16		Sample Date 12-29-16 12-29-16 12-29-16	Sample Time 0915 0910 -	Sample Type (C=comp, G=grab) G G -	Matrix (W=water, S=solid, O=wast/oil) Water Water Water
Field Filled Sample (Yes or No)		Field Filled Sample (Yes or No)		Field Filled Sample (Yes or No)	
Performance MS(MSD) (Yes or No)		Performance MS(MSD) (Yes or No)		Performance MS(MSD) (Yes or No)	
8260C - (MOD) TCL list OLM04.2		8260C - (MOD) TCL list OLM04.2		8260C - (MOD) TCL list OLM04.2	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arctichlor 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:		Special Instructions/Note:			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, (X) 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: L.A.D. Whalen		Date: 12-29-16		Time: 1300	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: #1 3.7			

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-111673-1

Login Number: 111673

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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 (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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.	True	
Chlorine Residual checked.	N/A	



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 10/18/2016
Reported: 10/29/2016

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-01

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:40

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16	1353
1,1,1-Trichloroethane	<0.50	0.50	ug/L			10/25/16	1353
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16	1353
1,1,2-Trichloroethane	<0.50	0.50	ug/L			10/25/16	1353
1,1-Dichloroethane	<0.50	0.50	ug/L			10/25/16	1353
1,1-Dichloroethene	<0.50	0.50	ug/L			10/25/16	1353
1,1-Dichloropropene	<0.50	0.50	ug/L			10/25/16	1353
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16	1353
1,2,3-Trichloropropane	<0.50	0.50	ug/L			10/25/16	1353
1,2,3-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16	1353
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16	1353
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16	1353
1,2-Dibromo-3-chloropropane (DBCP)	<0.50	0.50	ug/L			10/25/16	1353
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L			10/25/16	1353
1,2-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16	1353
1,2-Dichloroethane	<0.50	0.50	ug/L			10/25/16	1353
1,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16	1353
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16	1353
1,3-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16	1353
1,3-Dichloropropane	<0.50	0.50	ug/L			10/25/16	1353
1,4-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16	1353
2,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16	1353
2-Chlorotoluene	<0.50	0.50	ug/L			10/25/16	1353
4-Chlorotoluene	<0.50	0.50	ug/L			10/25/16	1353
4-Isopropyltoluene	<0.50	0.50	ug/L			10/25/16	1353
Benzene	<0.50	0.50	ug/L			10/25/16	1353
Bromobenzene	<0.50	0.50	ug/L			10/25/16	1353
Bromochloromethane	<0.50	0.50	ug/L			10/25/16	1353
Bromodichloromethane	<0.50	0.50	ug/L			10/25/16	1353
Bromoform	<0.50	0.50	ug/L			10/25/16	1353
Bromomethane	<0.50	0.50	ug/L			10/25/16	1353
Carbon tetrachloride	<0.50	0.50	ug/L			10/25/16	1353
Chlorobenzene	<0.50	0.50	ug/L			10/25/16	1353
Chloroethane	<0.50	0.50	ug/L			10/25/16	1353
Chloroform	<0.50	0.50	ug/L			10/25/16	1353

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-01

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:40

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Chloromethane	<0.50		0.50	ug/L			10/25/16 1353
cis-1,2-Dichloroethene	<0.50		0.50	ug/L			10/25/16 1353
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			10/25/16 1353
Dibromochloromethane	<0.50		0.50	ug/L			10/25/16 1353
Dibromomethane	<0.50		0.50	ug/L			10/25/16 1353
Dichlorodifluoromethane	<0.50		0.50	ug/L			10/25/16 1353
Ethylbenzene	<0.50		0.50	ug/L			10/25/16 1353
Hexachlorobutadiene	<0.50		0.50	ug/L			10/25/16 1353
Isopropylbenzene	<0.50		0.50	ug/L			10/25/16 1353
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L			10/25/16 1353
Methylene chloride	<0.50		0.50	ug/L			10/25/16 1353
Naphthalene	<0.50		0.50	ug/L			10/25/16 1353
n-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1353
n-Propylbenzene	<0.50		0.50	ug/L			10/25/16 1353
sec-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1353
Styrene	<0.50		0.50	ug/L			10/25/16 1353
tert-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1353
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/25/16 1353
Toluene	<0.50		0.50	ug/L			10/25/16 1353
trans-1,2-Dichloroethene	<0.50		0.50	ug/L			10/25/16 1353
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/25/16 1353
Trichloroethene (TCE)	<0.50		0.50	ug/L			10/25/16 1353
Trichlorofluoromethane	<0.50		0.50	ug/L			10/25/16 1353
Vinyl chloride	<0.50		0.50	ug/L			10/25/16 1353
Xylenes (total)	<0.50		0.50	ug/L			10/25/16 1353
Total Trihalomethanes	<0.50		0.50	ug/L			10/25/16 1353
Surrogate: 1,2-Dichlorobenzene-d4	95	Limit: 70-130		% Rec			10/25/16 1353
Surrogate: Bromofluorobenzene	96	Limit: 70-130		% Rec			10/25/16 1353



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6J0402-02

Collected By: BNR-Lab

Collection Date: 10/18/2016 8:42



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6J0402-02

Collected By: BNR-Lab

Collection Date: 10/18/2016 8:42

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1417
1,1,1-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1417
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1417
1,1,2-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1417
1,1-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1417
1,1-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1417
1,1-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1417
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1417
1,2,3-Trichloropropane	<0.50	0.50	ug/L			10/25/16 1417
1,2,3-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1417
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1417
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1417
1,2-Dibromo-3-chloropropane (DBCP)	<0.50	0.50	ug/L			10/25/16 1417
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L			10/25/16 1417
1,2-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1417
1,2-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1417
1,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1417
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1417
1,3-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1417
1,3-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1417
1,4-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1417
2,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1417
2-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1417
4-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1417
4-Isopropyltoluene	<0.50	0.50	ug/L			10/25/16 1417
Benzene	<0.50	0.50	ug/L			10/25/16 1417
Bromobenzene	<0.50	0.50	ug/L			10/25/16 1417
Bromochloromethane	<0.50	0.50	ug/L			10/25/16 1417
Bromodichloromethane	<0.50	0.50	ug/L			10/25/16 1417
Bromoform	<0.50	0.50	ug/L			10/25/16 1417
Bromomethane	<0.50	0.50	ug/L			10/25/16 1417
Carbon tetrachloride	<0.50	0.50	ug/L			10/25/16 1417
Chlorobenzene	<0.50	0.50	ug/L			10/25/16 1417
Chloroethane	<0.50	0.50	ug/L			10/25/16 1417
Chloroform	<0.50	0.50	ug/L			10/25/16 1417
Chloromethane	<0.50	0.50	ug/L			10/25/16 1417
cis-1,2-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1417
cis-1,3-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1417
Dibromochloromethane	<0.50	0.50	ug/L			10/25/16 1417
Dibromomethane	<0.50	0.50	ug/L			10/25/16 1417
Dichlorodifluoromethane	<0.50	0.50	ug/L			10/25/16 1417

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6J0402-02

Collected By: BNR-Lab

Collection Date: 10/18/2016 8:42

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	0.50	ug/L			10/25/16 1417
Hexachlorobutadiene	<0.50	0.50	ug/L			10/25/16 1417
Isopropylbenzene	<0.50	0.50	ug/L			10/25/16 1417
Methyl tert-butyl ether (MTBE)	<1.0	1.0	ug/L			10/25/16 1417
Methylene chloride	<0.50	0.50	ug/L			10/25/16 1417
Naphthalene	<0.50	0.50	ug/L			10/25/16 1417
n-Butylbenzene	<0.50	0.50	ug/L			10/25/16 1417
n-Propylbenzene	<0.50	0.50	ug/L			10/25/16 1417
sec-Butylbenzene	<0.50	0.50	ug/L			10/25/16 1417
Styrene	<0.50	0.50	ug/L			10/25/16 1417
tert-Butylbenzene	<0.50	0.50	ug/L			10/25/16 1417
Tetrachloroethene (PCE)	<0.50	0.50	ug/L			10/25/16 1417
Toluene	<0.50	0.50	ug/L			10/25/16 1417
trans-1,2-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1417
trans-1,3-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1417
Trichloroethene (TCE)	<0.50	0.50	ug/L			10/25/16 1417
Trichlorofluoromethane	<0.50	0.50	ug/L			10/25/16 1417
Vinyl chloride	<0.50	0.50	ug/L			10/25/16 1417
Xylenes (total)	<0.50	0.50	ug/L			10/25/16 1417
Total Trihalomethanes	<0.50	0.50	ug/L			10/25/16 1417
Surrogate: 1,2-Dichlorobenzene-d4	94	Limit: 70-130	% Rec			10/25/16 1417
Surrogate: Bromofluorobenzene	92	Limit: 70-130	% Rec			10/25/16 1417



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-03

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:45



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-03

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:45

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L		10/25/16	1440
1,1,1-Trichloroethane	<0.50	0.50	ug/L		10/25/16	1440
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L		10/25/16	1440
1,1,2-Trichloroethane	<0.50	0.50	ug/L		10/25/16	1440
1,1-Dichloroethane	<0.50	0.50	ug/L		10/25/16	1440
1,1-Dichloroethene	<0.50	0.50	ug/L		10/25/16	1440
1,1-Dichloropropene	<0.50	0.50	ug/L		10/25/16	1440
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L		10/25/16	1440
1,2,3-Trichloropropane	<0.50	0.50	ug/L		10/25/16	1440
1,2,3-Trimethylbenzene	<0.50	0.50	ug/L		10/25/16	1440
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L		10/25/16	1440
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L		10/25/16	1440
1,2-Dibromo-3-chloropropane (DBCP)	<0.50	0.50	ug/L		10/25/16	1440
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L		10/25/16	1440
1,2-Dichlorobenzene	<0.50	0.50	ug/L		10/25/16	1440
1,2-Dichloroethane	<0.50	0.50	ug/L		10/25/16	1440
1,2-Dichloropropane	<0.50	0.50	ug/L		10/25/16	1440
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L		10/25/16	1440
1,3-Dichlorobenzene	<0.50	0.50	ug/L		10/25/16	1440
1,3-Dichloropropane	<0.50	0.50	ug/L		10/25/16	1440
1,4-Dichlorobenzene	<0.50	0.50	ug/L		10/25/16	1440
2,2-Dichloropropane	<0.50	0.50	ug/L		10/25/16	1440
2-Chlorotoluene	<0.50	0.50	ug/L		10/25/16	1440
4-Chlorotoluene	<0.50	0.50	ug/L		10/25/16	1440
4-Isopropyltoluene	<0.50	0.50	ug/L		10/25/16	1440
Benzene	<0.50	0.50	ug/L		10/25/16	1440
Bromobenzene	<0.50	0.50	ug/L		10/25/16	1440
Bromochloromethane	<0.50	0.50	ug/L		10/25/16	1440
Bromodichloromethane	<0.50	0.50	ug/L		10/25/16	1440
Bromoform	<0.50	0.50	ug/L		10/25/16	1440
Bromomethane	<0.50	0.50	ug/L		10/25/16	1440
Carbon tetrachloride	<0.50	0.50	ug/L		10/25/16	1440
Chlorobenzene	<0.50	0.50	ug/L		10/25/16	1440
Chloroethane	<0.50	0.50	ug/L		10/25/16	1440
Chloroform	<0.50	0.50	ug/L		10/25/16	1440
Chloromethane	<0.50	0.50	ug/L		10/25/16	1440
cis-1,2-Dichloroethene	<0.50	0.50	ug/L		10/25/16	1440
cis-1,3-Dichloropropene	<0.50	0.50	ug/L		10/25/16	1440
Dibromochloromethane	<0.50	0.50	ug/L		10/25/16	1440
Dibromomethane	<0.50	0.50	ug/L		10/25/16	1440
Dichlorodifluoromethane	<0.50	0.50	ug/L		10/25/16	1440

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-03

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:45

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50		0.50	ug/L			10/25/16 1440
Hexachlorobutadiene	<0.50		0.50	ug/L			10/25/16 1440
Isopropylbenzene	<0.50		0.50	ug/L			10/25/16 1440
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L			10/25/16 1440
Methylene chloride	<0.50		0.50	ug/L			10/25/16 1440
Naphthalene	<0.50		0.50	ug/L			10/25/16 1440
n-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1440
n-Propylbenzene	<0.50		0.50	ug/L			10/25/16 1440
sec-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1440
Styrene	<0.50		0.50	ug/L			10/25/16 1440
tert-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1440
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/25/16 1440
Toluene	<0.50		0.50	ug/L			10/25/16 1440
trans-1,2-Dichloroethene	<0.50		0.50	ug/L			10/25/16 1440
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/25/16 1440
Trichloroethene (TCE)	<0.50		0.50	ug/L			10/25/16 1440
Trichlorofluoromethane	<0.50		0.50	ug/L			10/25/16 1440
Vinyl chloride	<0.50		0.50	ug/L			10/25/16 1440
Xylenes (total)	<0.50		0.50	ug/L			10/25/16 1440
Total Trihalomethanes	<0.50		0.50	ug/L			10/25/16 1440
Surrogate: 1,2-Dichlorobenzene-d4	96	Limit: 70-130		% Rec			10/25/16 1440
Surrogate: Bromofluorobenzene	94	Limit: 70-130		% Rec			10/25/16 1440



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-04

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:47



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-04

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:47

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1504
1,1,1-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1504
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1504
1,1,2-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1504
1,1-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1504
1,1-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1504
1,1-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1504
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1504
1,2,3-Trichloropropane	<0.50	0.50	ug/L			10/25/16 1504
1,2,3-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1504
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1504
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1504
1,2-Dibromo-3-chloropropane (DBCP)	<0.50	0.50	ug/L			10/25/16 1504
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L			10/25/16 1504
1,2-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1504
1,2-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1504
1,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1504
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1504
1,3-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1504
1,3-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1504
1,4-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1504
2,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1504
2-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1504
4-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1504
4-Isopropyltoluene	<0.50	0.50	ug/L			10/25/16 1504
Benzene	<0.50	0.50	ug/L			10/25/16 1504
Bromobenzene	<0.50	0.50	ug/L			10/25/16 1504
Bromochloromethane	<0.50	0.50	ug/L			10/25/16 1504
Bromodichloromethane	<0.50	0.50	ug/L			10/25/16 1504
Bromoform	<0.50	0.50	ug/L			10/25/16 1504
Bromomethane	<0.50	0.50	ug/L			10/25/16 1504
Carbon tetrachloride	<0.50	0.50	ug/L			10/25/16 1504
Chlorobenzene	<0.50	0.50	ug/L			10/25/16 1504
Chloroethane	<0.50	0.50	ug/L			10/25/16 1504
Chloroform	<0.50	0.50	ug/L			10/25/16 1504
Chloromethane	<0.50	0.50	ug/L			10/25/16 1504
cis-1,2-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1504
cis-1,3-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1504
Dibromochloromethane	<0.50	0.50	ug/L			10/25/16 1504
Dibromomethane	<0.50	0.50	ug/L			10/25/16 1504
Dichlorodifluoromethane	<0.50	0.50	ug/L			10/25/16 1504

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-04

Collected By: BNR-Lab
Collection Date: 10/18/2016 8:47

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50		0.50	ug/L			10/25/16 1504
Hexachlorobutadiene	<0.50		0.50	ug/L			10/25/16 1504
Isopropylbenzene	<0.50		0.50	ug/L			10/25/16 1504
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L			10/25/16 1504
Methylene chloride	<0.50		0.50	ug/L			10/25/16 1504
Naphthalene	<0.50		0.50	ug/L			10/25/16 1504
n-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1504
n-Propylbenzene	<0.50		0.50	ug/L			10/25/16 1504
sec-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1504
Styrene	<0.50		0.50	ug/L			10/25/16 1504
tert-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1504
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/25/16 1504
Toluene	<0.50		0.50	ug/L			10/25/16 1504
trans-1,2-Dichloroethene	<0.50		0.50	ug/L			10/25/16 1504
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/25/16 1504
Trichloroethene (TCE)	<0.50		0.50	ug/L			10/25/16 1504
Trichlorofluoromethane	<0.50		0.50	ug/L			10/25/16 1504
Vinyl chloride	<0.50		0.50	ug/L			10/25/16 1504
Xylenes (total)	<0.50		0.50	ug/L			10/25/16 1504
Total Trihalomethanes	<0.50		0.50	ug/L			10/25/16 1504
Surrogate: 1,2-Dichlorobenzene-d4	94	Limit: 70-130		% Rec			10/25/16 1504
Surrogate: Bromofluorobenzene	93	Limit: 70-130		% Rec			10/25/16 1504



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-05

Collected By: BNR-Lab
Collection Date: 10/18/2016 9:20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-05

Collected By: BNR-Lab
Collection Date: 10/18/2016 9:20

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1527
1,1,1-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1527
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1527
1,1,2-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1527
1,1-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1527
1,1-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1527
1,1-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1527
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1527
1,2,3-Trichloropropane	<0.50	0.50	ug/L			10/25/16 1527
1,2,3-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1527
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1527
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1527
1,2-Dibromo-3-chloropropane (DBCP)	<0.50	0.50	ug/L			10/25/16 1527
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L			10/25/16 1527
1,2-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1527
1,2-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1527
1,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1527
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1527
1,3-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1527
1,3-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1527
1,4-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1527
2,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1527
2-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1527
4-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1527
4-Isopropyltoluene	<0.50	0.50	ug/L			10/25/16 1527
Benzene	<0.50	0.50	ug/L			10/25/16 1527
Bromobenzene	<0.50	0.50	ug/L			10/25/16 1527
Bromochloromethane	<0.50	0.50	ug/L			10/25/16 1527
Bromodichloromethane	<0.50	0.50	ug/L			10/25/16 1527
Bromoform	<0.50	0.50	ug/L			10/25/16 1527
Bromomethane	<0.50	0.50	ug/L			10/25/16 1527
Carbon tetrachloride	<0.50	0.50	ug/L			10/25/16 1527
Chlorobenzene	<0.50	0.50	ug/L			10/25/16 1527
Chloroethane	<0.50	0.50	ug/L			10/25/16 1527
Chloroform	<0.50	0.50	ug/L			10/25/16 1527
Chloromethane	<0.50	0.50	ug/L			10/25/16 1527
cis-1,2-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1527
cis-1,3-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1527
Dibromochloromethane	<0.50	0.50	ug/L			10/25/16 1527
Dibromomethane	<0.50	0.50	ug/L			10/25/16 1527
Dichlorodifluoromethane	<0.50	0.50	ug/L			10/25/16 1527

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-05

Collected By: BNR-Lab
Collection Date: 10/18/2016 9:20

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50		0.50	ug/L			10/25/16 1527
Hexachlorobutadiene	<0.50		0.50	ug/L			10/25/16 1527
Isopropylbenzene	<0.50		0.50	ug/L			10/25/16 1527
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L			10/25/16 1527
Methylene chloride	<0.50		0.50	ug/L			10/25/16 1527
Naphthalene	<0.50		0.50	ug/L			10/25/16 1527
n-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1527
n-Propylbenzene	<0.50		0.50	ug/L			10/25/16 1527
sec-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1527
Styrene	<0.50		0.50	ug/L			10/25/16 1527
tert-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1527
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/25/16 1527
Toluene	<0.50		0.50	ug/L			10/25/16 1527
trans-1,2-Dichloroethene	<0.50		0.50	ug/L			10/25/16 1527
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/25/16 1527
Trichloroethene (TCE)	<0.50		0.50	ug/L			10/25/16 1527
Trichlorofluoromethane	<0.50		0.50	ug/L			10/25/16 1527
Vinyl chloride	<0.50		0.50	ug/L			10/25/16 1527
Xylenes (total)	<0.50		0.50	ug/L			10/25/16 1527
Total Trihalomethanes	<0.50		0.50	ug/L			10/25/16 1527
Surrogate: 1,2-Dichlorobenzene-d4	90		Limit: 70-130	% Rec			10/25/16 1527
Surrogate: Bromofluorobenzene	90		Limit: 70-130	% Rec			10/25/16 1527



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-06

Collected By: BNR-Lab
Collection Date: 10/18/2016 9:22



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-06

Collected By: BNR-Lab
Collection Date: 10/18/2016 9:22

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1550
1,1,1-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1550
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			10/25/16 1550
1,1,2-Trichloroethane	<0.50	0.50	ug/L			10/25/16 1550
1,1-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1550
1,1-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1550
1,1-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1550
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1550
1,2,3-Trichloropropane	<0.50	0.50	ug/L			10/25/16 1550
1,2,3-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1550
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			10/25/16 1550
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1550
1,2-Dibromo-3-chloropropane (DBCP)	<0.50	0.50	ug/L			10/25/16 1550
1,2-Dibromoethane (EDB)	<0.50	0.50	ug/L			10/25/16 1550
1,2-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1550
1,2-Dichloroethane	<0.50	0.50	ug/L			10/25/16 1550
1,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1550
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			10/25/16 1550
1,3-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1550
1,3-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1550
1,4-Dichlorobenzene	<0.50	0.50	ug/L			10/25/16 1550
2,2-Dichloropropane	<0.50	0.50	ug/L			10/25/16 1550
2-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1550
4-Chlorotoluene	<0.50	0.50	ug/L			10/25/16 1550
4-Isopropyltoluene	<0.50	0.50	ug/L			10/25/16 1550
Benzene	<0.50	0.50	ug/L			10/25/16 1550
Bromobenzene	<0.50	0.50	ug/L			10/25/16 1550
Bromochloromethane	<0.50	0.50	ug/L			10/25/16 1550
Bromodichloromethane	<0.50	0.50	ug/L			10/25/16 1550
Bromoform	<0.50	0.50	ug/L			10/25/16 1550
Bromomethane	<0.50	0.50	ug/L			10/25/16 1550
Carbon tetrachloride	<0.50	0.50	ug/L			10/25/16 1550
Chlorobenzene	<0.50	0.50	ug/L			10/25/16 1550
Chloroethane	<0.50	0.50	ug/L			10/25/16 1550
Chloroform	<0.50	0.50	ug/L			10/25/16 1550
Chloromethane	<0.50	0.50	ug/L			10/25/16 1550
cis-1,2-Dichloroethene	<0.50	0.50	ug/L			10/25/16 1550
cis-1,3-Dichloropropene	<0.50	0.50	ug/L			10/25/16 1550
Dibromochloromethane	<0.50	0.50	ug/L			10/25/16 1550
Dibromomethane	<0.50	0.50	ug/L			10/25/16 1550
Dichlorodifluoromethane	<0.50	0.50	ug/L			10/25/16 1550

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6J0402-06

Collected By: BNR-Lab
Collection Date: 10/18/2016 9:22

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50		0.50	ug/L			10/25/16 1550
Hexachlorobutadiene	<0.50		0.50	ug/L			10/25/16 1550
Isopropylbenzene	<0.50		0.50	ug/L			10/25/16 1550
Methyl tert-butyl ether (MTBE)	<1.0		1.0	ug/L			10/25/16 1550
Methylene chloride	<0.50		0.50	ug/L			10/25/16 1550
Naphthalene	<0.50		0.50	ug/L			10/25/16 1550
n-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1550
n-Propylbenzene	<0.50		0.50	ug/L			10/25/16 1550
sec-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1550
Styrene	<0.50		0.50	ug/L			10/25/16 1550
tert-Butylbenzene	<0.50		0.50	ug/L			10/25/16 1550
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/25/16 1550
Toluene	<0.50		0.50	ug/L			10/25/16 1550
trans-1,2-Dichloroethene	<0.50		0.50	ug/L			10/25/16 1550
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/25/16 1550
Trichloroethene (TCE)	<0.50		0.50	ug/L			10/25/16 1550
Trichlorofluoromethane	<0.50		0.50	ug/L			10/25/16 1550
Vinyl chloride	<0.50		0.50	ug/L			10/25/16 1550
Xylenes (total)	<0.50		0.50	ug/L			10/25/16 1550
Total Trihalomethanes	<0.50		0.50	ug/L			10/25/16 1550
Surrogate: 1,2-Dichlorobenzene-d4	94		Limit: 70-130	% Rec			10/25/16 1550
Surrogate: Bromofluorobenzene	93		Limit: 70-130	% Rec			10/25/16 1550

Laboratory

SAY: Microbac Laboratories, Inc., Sayre Division

Definitions

MCL: Maximum Contaminant Level
RL: Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc. Dayville (NY 11549)
NY Lab ID No: 11549

New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6J0402

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Limits may be provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Reviewed and Approved By:

A handwritten signature in blue ink, reading "Michael Fifield", is written over a faint, larger blue signature watermark.

Michael Fifield
Division Manager
michael.fifield@microbac.com
10/29/2016 20:15



Microbac Laboratories, Inc., New York Division

Chain of Custody

J6J0402

Client: Town of Vestal

Project: Monthly

Project Number: Town of Vestal Monthly/Quarterly

Field Route ID: NY-Route 1 Bing

Tenatively Scheduled: 10/11/2016

Report To:

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:

Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: J6J0402-01
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 10-18-16 0840

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-2A Finished

Lab Sample ID: J6J0402-02
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 10-18-16 0842

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-3 Raw

Lab Sample ID: J6J0402-03
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 10-18-16 0845

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6J0402

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tenatively Scheduled: **10/11/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 1-3 Finished

Lab Sample ID: **J6J0402-04**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 10-18-16 0847

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: **J6J0402-05**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 10-18-16 @ 0900

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: **J6J0402-06**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 10-18-16 @ 0900

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6J0402

Client: **Town of Vestal**Project: **Monthly**Field Route ID: **NY-Route 1 Bing**Project Number: **Town of Vestal Monthly/Quarterly**Tenatively Scheduled: **10/11/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: Trip Blank

Lab Sample ID: **J6J0402-07**
Matrix: **Drinking Water**
Type: **Trip Blank**

Sampled Date & Time: 10-13-16 @ 1700

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			1

Sampled by: <u>Bethany Robinson</u>	Date/Time: <u>10-18-16 0907</u>	Received by: _____
Printed Name: Bethany Robinson		Printed Name: _____
Relinquished by: <u>Bethany Robinson</u>	Date/Time: <u>10-18-16 @ 1022</u>	Received by: <u>Brenna K Murray</u>
Printed Name: Bethany Robinson		Printed Name: Brenna Murray
Relinquished by: _____	Date/Time: _____	Received by: _____
Printed Name: _____		Printed Name: _____

As Recieved at Laboratory: On Ice: ☒ Yes / No Temp 12.1 °C Total Bottles 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via by BNR 10/06/2016 16:47



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 11/08/2016
Reported: 11/17/2016

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-01

Collected By: Bethany Robinson
Collection Date: 11/08/2016 8:43

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/10/16 1718
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/10/16 1718
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/10/16 1718
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
4-Isopropyltoluene	<0.50		0.50	ug/L		11/10/16 1718
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
Bromodichloromethane	<0.50		0.50	ug/L		11/10/16 1718
Bromoform	<0.50		0.50	ug/L		11/10/16 1718
Bromomethane	<0.50		0.50	ug/L		11/10/16 1718
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1718
Chloroethane	<0.50		0.50	ug/L		11/10/16 1718
Chloroform	<0.50		0.50	ug/L		11/10/16 1718

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-01

Collected By: Bethany Robinson
Collection Date: 11/08/2016 8:43

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Chloromethane	<0.50		0.50	ug/L			11/10/16 1718
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Dibromochloromethane	<0.50		0.50	ug/L			11/10/16 1718
Dibromomethane	<0.50		0.50	ug/L			11/10/16 1718
Dichlorodifluoromethane	<0.50		0.50	ug/L			11/10/16 1718
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Isopropylbenzene	<0.50		0.50	ug/L			11/10/16 1718
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/10/16 1718
Methylene chloride	<0.50		0.50	ug/L			11/10/16 1718
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/10/16 1718
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Trichloroethene (TCE)	<0.50		0.50	ug/L			11/10/16 1718
Trichlorofluoromethane	<0.50		0.50	ug/L			11/10/16 1718
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/10/16 1718
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1718
Total Trihalomethanes	<0.50		0.50	ug/L			11/10/16 1718
Surrogate: 1,2-Dichlorobenzene-d4	89		Limit: 70-130	% Rec			11/10/16 1718
Surrogate: Bromofluorobenzene	87		Limit: 70-130	% Rec			11/10/16 1718



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6K0264-02

Collected By: Bethany Robinson

Collection Date: 11/08/2016 8:40



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-02

Collected By: Bethany Robinson
Collection Date: 11/08/2016 8:40

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/10/16 1742
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/10/16 1742
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/10/16 1742
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
4-Isopropyltoluene	<0.50		0.50	ug/L		11/10/16 1742
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
Bromodichloromethane	<0.50		0.50	ug/L		11/10/16 1742
Bromoform	<0.50		0.50	ug/L		11/10/16 1742
Bromomethane	<0.50		0.50	ug/L		11/10/16 1742
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
Chloroethane	<0.50		0.50	ug/L		11/10/16 1742
Chloroform	<0.50		0.50	ug/L		11/10/16 1742
Chloromethane	<0.50		0.50	ug/L		11/10/16 1742
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1742
Dibromochloromethane	<0.50		0.50	ug/L		11/10/16 1742
Dibromomethane	<0.50		0.50	ug/L		11/10/16 1742
Dichlorodifluoromethane	<0.50		0.50	ug/L		11/10/16 1742

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6K0264-02

Collected By: Bethany Robinson

Collection Date: 11/08/2016 8:40

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
Isopropylbenzene	<0.50		0.50	ug/L			11/10/16 1742
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/10/16 1742
Methylene chloride	<0.50		0.50	ug/L			11/10/16 1742
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/10/16 1742
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
Trichloroethene (TCE)	<0.50		0.50	ug/L			11/10/16 1742
Trichlorofluoromethane	<0.50		0.50	ug/L			11/10/16 1742
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/10/16 1742
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1742
Total Trihalomethanes	<0.50		0.50	ug/L			11/10/16 1742
Surrogate: 1,2-Dichlorobenzene-d4	89		Limit: 70-130	% Rec			11/10/16 1742
Surrogate: Bromofluorobenzene	87		Limit: 70-130	% Rec			11/10/16 1742



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-03

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:12



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-03

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:12

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/10/16 1806
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/10/16 1806
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/10/16 1806
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
4-Isopropyltoluene	<0.50		0.50	ug/L		11/10/16 1806
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
Bromodichloromethane	<0.50		0.50	ug/L		11/10/16 1806
Bromoform	<0.50		0.50	ug/L		11/10/16 1806
Bromomethane	<0.50		0.50	ug/L		11/10/16 1806
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
Chloroethane	<0.50		0.50	ug/L		11/10/16 1806
Chloroform	<0.50		0.50	ug/L		11/10/16 1806
Chloromethane	<0.50		0.50	ug/L		11/10/16 1806
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1806
Dibromochloromethane	<0.50		0.50	ug/L		11/10/16 1806
Dibromomethane	<0.50		0.50	ug/L		11/10/16 1806
Dichlorodifluoromethane	<0.50		0.50	ug/L		11/10/16 1806

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-03

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:12

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
Isopropylbenzene	<0.50		0.50	ug/L			11/10/16 1806
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/10/16 1806
Methylene chloride	<0.50		0.50	ug/L			11/10/16 1806
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/10/16 1806
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
Trichloroethene (TCE)	<0.50		0.50	ug/L			11/10/16 1806
Trichlorofluoromethane	<0.50		0.50	ug/L			11/10/16 1806
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/10/16 1806
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1806
Total Trihalomethanes	<0.50		0.50	ug/L			11/10/16 1806
Surrogate: 1,2-Dichlorobenzene-d4	88		Limit: 70-130	% Rec			11/10/16 1806
Surrogate: Bromofluorobenzene	88		Limit: 70-130	% Rec			11/10/16 1806



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-04

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:13



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-04

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:13

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/10/16 1829
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/10/16 1829
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/10/16 1829
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
4-Isopropyltoluene	<0.50		0.50	ug/L		11/10/16 1829
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
Bromodichloromethane	<0.50		0.50	ug/L		11/10/16 1829
Bromoform	<0.50		0.50	ug/L		11/10/16 1829
Bromomethane	<0.50		0.50	ug/L		11/10/16 1829
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
Chloroethane	<0.50		0.50	ug/L		11/10/16 1829
Chloroform	<0.50		0.50	ug/L		11/10/16 1829
Chloromethane	<0.50		0.50	ug/L		11/10/16 1829
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16 1829
Dibromochloromethane	<0.50		0.50	ug/L		11/10/16 1829
Dibromomethane	<0.50		0.50	ug/L		11/10/16 1829
Dichlorodifluoromethane	<0.50		0.50	ug/L		11/10/16 1829

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-04

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:13

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
Isopropylbenzene	<0.50		0.50	ug/L			11/10/16 1829
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/10/16 1829
Methylene chloride	<0.50		0.50	ug/L			11/10/16 1829
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/10/16 1829
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
Trichloroethene (TCE)	<0.50		0.50	ug/L			11/10/16 1829
Trichlorofluoromethane	<0.50		0.50	ug/L			11/10/16 1829
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/10/16 1829
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1829
Total Trihalomethanes	<0.50		0.50	ug/L			11/10/16 1829
Surrogate: 1,2-Dichlorobenzene-d4	87		Limit: 70-130	% Rec			11/10/16 1829
Surrogate: Bromofluorobenzene	86		Limit: 70-130	% Rec			11/10/16 1829



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-05

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:53



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-05

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:53

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,1,1-Trichloroethane	0.66	5 NYVOA	0.50	ug/L		11/10/16	1853
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/10/16	1853
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/10/16	1853
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/10/16	1853
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
4-Isopropyltoluene	<0.50		0.50	ug/L		11/10/16	1853
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
Bromodichloromethane	<0.50		0.50	ug/L		11/10/16	1853
Bromoform	<0.50		0.50	ug/L		11/10/16	1853
Bromomethane	<0.50		0.50	ug/L		11/10/16	1853
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
Chloroethane	<0.50		0.50	ug/L		11/10/16	1853
Chloroform	<0.50		0.50	ug/L		11/10/16	1853
Chloromethane	<0.50		0.50	ug/L		11/10/16	1853
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1853
Dibromochloromethane	<0.50		0.50	ug/L		11/10/16	1853
Dibromomethane	<0.50		0.50	ug/L		11/10/16	1853
Dichlorodifluoromethane	<0.50		0.50	ug/L		11/10/16	1853

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-05

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:53

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
Isopropylbenzene	<0.50		0.50	ug/L			11/10/16 1853
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/10/16 1853
Methylene chloride	<0.50		0.50	ug/L			11/10/16 1853
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/10/16 1853
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
Trichloroethene (TCE)	0.7		0.50	ug/L			11/10/16 1853
Trichlorofluoromethane	<0.50		0.50	ug/L			11/10/16 1853
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/10/16 1853
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1853
Total Trihalomethanes	1.4		0.50	ug/L			11/10/16 1853
Surrogate: 1,2-Dichlorobenzene-d4	86		Limit: 70-130	% Rec			11/10/16 1853
Surrogate: Bromofluorobenzene	87		Limit: 70-130	% Rec			11/10/16 1853



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-06

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:52



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-06

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:52

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/10/16	1916
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/10/16	1916
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/10/16	1916
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
4-Isopropyltoluene	<0.50		0.50	ug/L		11/10/16	1916
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
Bromodichloromethane	<0.50		0.50	ug/L		11/10/16	1916
Bromoform	<0.50		0.50	ug/L		11/10/16	1916
Bromomethane	<0.50		0.50	ug/L		11/10/16	1916
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
Chloroethane	<0.50		0.50	ug/L		11/10/16	1916
Chloroform	<0.50		0.50	ug/L		11/10/16	1916
Chloromethane	<0.50		0.50	ug/L		11/10/16	1916
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/10/16	1916
Dibromochloromethane	<0.50		0.50	ug/L		11/10/16	1916
Dibromomethane	<0.50		0.50	ug/L		11/10/16	1916
Dichlorodifluoromethane	<0.50		0.50	ug/L		11/10/16	1916

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-06

Collected By: Bethany Robinson
Collection Date: 11/08/2016 9:52

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds in water, Capillary Column, GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
Isopropylbenzene	<0.50		0.50	ug/L			11/10/16 1916
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/10/16 1916
Methylene chloride	<0.50		0.50	ug/L			11/10/16 1916
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/10/16 1916
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
Trichloroethene (TCE)	<0.50		0.50	ug/L			11/10/16 1916
Trichlorofluoromethane	<0.50		0.50	ug/L			11/10/16 1916
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/10/16 1916
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/10/16 1916
Total Trihalomethanes	<0.50		0.50	ug/L			11/10/16 1916
Surrogate: 1,2-Dichlorobenzene-d4	86		Limit: 70-130	% Rec			11/10/16 1916
Surrogate: Bromofluorobenzene	86		Limit: 70-130	% Rec			11/10/16 1916



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-07

Collected By: Bethany Robinson
Collection Date: 11/03/2016 18:36



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-07

Collected By: Bethany Robinson
Collection Date: 11/03/2016 18:36

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

Result Limit(s) RL Units Note Prepared Analyzed

Method: 524.2

1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2,3-Trimethylbenzene	<0.50		0.50	ug/L		11/11/16	1353
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2-Dibromo-3-chloropropane (DBCP)	<0.50		0.50	ug/L		11/11/16	1353
1,2-Dibromoethane (EDB)	<0.50		0.50	ug/L		11/11/16	1353
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
4-Isopropyltoluene	<0.50		0.50	ug/L		11/11/16	1353
Benzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
Bromodichloromethane	<0.50		0.50	ug/L		11/11/16	1353
Bromoform	<0.50		0.50	ug/L		11/11/16	1353
Bromomethane	<0.50		0.50	ug/L		11/11/16	1353
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
Chloroethane	<0.50		0.50	ug/L		11/11/16	1353
Chloroform	<0.50		0.50	ug/L		11/11/16	1353
Chloromethane	<0.50		0.50	ug/L		11/11/16	1353
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L		11/11/16	1353
Dibromochloromethane	<0.50		0.50	ug/L		11/11/16	1353
Dibromomethane	<0.50		0.50	ug/L		11/11/16	1353
Dichlorodifluoromethane	<0.50		0.50	ug/L		11/11/16	1353

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J6K0264-07

Collected By: Bethany Robinson
Collection Date: 11/03/2016 18:36

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

524.2 - Purgeable Organic Compounds
in water, Capillary Column, GC/MS

	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
Isopropylbenzene	<0.50		0.50	ug/L			11/11/16 1353
Methyl tert-butyl ether (MTBE)	<1.0	10 NYVOA	1.0	ug/L			11/11/16 1353
Methylene chloride	<0.50		0.50	ug/L			11/11/16 1353
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
Styrene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			11/11/16 1353
Toluene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
Trichloroethene (TCE)	<0.50		0.50	ug/L			11/11/16 1353
Trichlorofluoromethane	<0.50		0.50	ug/L			11/11/16 1353
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			11/11/16 1353
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			11/11/16 1353
Total Trihalomethanes	<0.50		0.50	ug/L			11/11/16 1353
Surrogate: 1,2-Dichlorobenzene-d4	91		Limit: 70-130	% Rec			11/11/16 1353
Surrogate: Bromofluorobenzene	88		Limit: 70-130	% Rec			11/11/16 1353

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

MCL: Maximum Contaminant Level
NYVOA: New York DOH Part 5 Public Water System MCLs
RL: Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc., New York Division
NY Lab ID No.: 10795
Microbac Laboratories, Inc. Dayville (NY 11549)
NY Lab ID No: 11549

New York State Department of Health

New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6K0264

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Limits may be provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Reviewed and Approved By:

A handwritten signature in blue ink, reading "Michael Fifield".

Michael Fifield
Division Manager
michael.fifield@microbac.com
11/17/2016 18:46



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6K0264

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tentatively Scheduled: **11/8/2016****Report To:**

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:

Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

TAT 7 days**Sample ID: 1-2A Raw**

Lab Sample ID: **J6K0264-01**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11-08-16 @ 0843

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-2A Finished

Lab Sample ID: **J6K0264-02**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11-08-16 @ 0840

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-3 Raw

Lab Sample ID: **J6K0264-03**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11-08-16 @ 0912

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6K0264

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tenatively Scheduled: **11/8/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 1-3 Finished

Lab Sample ID: **J6K0264-04**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11-08-16 @ 0913

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: **J6K0264-05**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11-08-16 @ 0953

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: **J6K0264-06**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11-08-16 @ 0952

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6K0264

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tenatively Scheduled: **11/8/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers: 2			
Sample ID: Trip Blank			
Lab Sample ID: J6K0264-07	Sampled Date & Time: <u>11-03-16 @ 1536</u>		
Matrix: Drinking Water			
Type: Trip Blank			
PWSID: _____	Point Type: _____	Compliance Start: _____	
Sampling Point: _____	Frequency: _____	Compliance End: _____	
Point No: _____	Num/Frequency: _____	Sample Location: _____	
Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers: 1			
Sampled by: <u>Bethany Robinson</u>	Date/Time: <u>11-03-16 @ 1545</u>	Received by: _____	
Printed Name: Bethany Robinson		Printed Name: _____	
Relinquished by: <u>Bethany Robinson</u>	Date/Time: <u>11-03-16 @ 1210</u>	Received by: <u>Brenna Murray</u>	
Printed Name: Bethany Robinson		Printed Name: Brenna Murray	
Relinquished by: _____	Date/Time: <u>11/8/16 12:10</u>	Received by: _____	
Printed Name: _____		Printed Name: _____	

As Recieved at Laboratory: On Ice: ☒ Yes / No Temp 3.3 °C

Total Bottles 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via by BNR 11/03/2016 15:50



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Town of Vestal

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 12/13/2016
Reported: 12/23/2016

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-01

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:49

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 1650	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-01

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:49

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 1650	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1650	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1650	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1650	NY
Surrogate: 4-Bromofluorobenzene	75.8		Limit: 70-130	% Rec			12/21/16 1650	NY
Surrogate: 1,2-Dichlorobenzene-d4	70.2		Limit: 70-130	% Rec			12/21/16 1650	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6L0723-02

Collected By: Bethany Robinson

Collection Date: 12/16/2016 7:51



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6L0723-02

Collected By: Bethany Robinson

Collection Date: 12/16/2016 7:51

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 1723	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J6L0723-02

Collected By: Bethany Robinson

Collection Date: 12/16/2016 7:51

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 1723	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1723	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1723	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1723	NY
Surrogate: 4-Bromofluorobenzene	75.6		Limit: 70-130	% Rec			12/21/16 1723	NY
Surrogate: 1,2-Dichlorobenzene-d4	73.0		Limit: 70-130	% Rec			12/21/16 1723	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-03

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:55



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-03

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:55

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 1756	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-03

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:55

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 1756	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1756	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1756	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1756	NY
Surrogate: 4-Bromofluorobenzene	74.2		Limit: 70-130	% Rec			12/21/16 1756	NY
Surrogate: 1,2-Dichlorobenzene-d4	73.6		Limit: 70-130	% Rec			12/21/16 1756	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-04

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:58



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-04

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:58

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 1830	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-04

Collected By: Bethany Robinson
Collection Date: 12/16/2016 7:58

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 1830	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1830	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1830	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1830	NY
Surrogate: 4-Bromofluorobenzene	72.8		Limit: 70-130	% Rec			12/21/16 1830	NY
Surrogate: 1,2-Dichlorobenzene-d4	76.2		Limit: 70-130	% Rec			12/21/16 1830	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-05

Collected By: Bethany Robinson
Collection Date: 12/16/2016 8:23



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-05

Collected By: Bethany Robinson
Collection Date: 12/16/2016 8:23

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 1903	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Tetrachloroethene	0.530	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-05

Collected By: Bethany Robinson
Collection Date: 12/16/2016 8:23

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,1,1-Trichloroethane	0.980	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Trichloroethene	0.840	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 1903	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1903	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1903	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1903	NY
Surrogate: 4-Bromofluorobenzene	74.8		Limit: 70-130	% Rec			12/21/16 1903	NY
Surrogate: 1,2-Dichlorobenzene-d4	73.8		Limit: 70-130	% Rec			12/21/16 1903	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-06

Collected By: Bethany Robinson
Collection Date: 12/16/2016 8:25



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-06

Collected By: Bethany Robinson
Collection Date: 12/16/2016 8:25

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 1936	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-06

Collected By: Bethany Robinson
Collection Date: 12/16/2016 8:25

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 1936	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1936	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 1936	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 1936	NY
Surrogate: 4-Bromofluorobenzene	74.2		Limit: 70-130	% Rec			12/21/16 1936	NY
Surrogate: 1,2-Dichlorobenzene-d4	75.6		Limit: 70-130	% Rec			12/21/16 1936	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-07

Collected By: Bethany Robinson
Collection Date: 12/15/2016 16:00



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-07

Collected By: Bethany Robinson
Collection Date: 12/15/2016 16:00

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			12/21/16 2009	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6L0723

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J6L0723-07

Collected By: Bethany Robinson
Collection Date: 12/15/2016 16:00

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			12/21/16 2009	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 2009	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		12/21/16 2009	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			12/21/16 2009	NY
Surrogate: 4-Bromofluorobenzene	71.4		Limit: 70-130	% Rec			12/21/16 2009	NY
Surrogate: 1,2-Dichlorobenzene-d4	73.0		Limit: 70-130	% Rec			12/21/16 2009	NY

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

MCL: Maximum Contaminant Level
NYVOA: New York DOH Part 5 Public Water System MCLs
RL: Reporting Limit
Y: This analyte is not on the laboratory's current scope of accreditation.

Project Requested Certification(s)

Microbac Laboratories, Inc., New York Division
NY Lab ID No.: 10795

New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Limits may be provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Reviewed and Approved By:

Michael Fifield
Division Manager
michael.fifield@microbac.com
12/23/2016 11:07



Microbac Laboratories, Inc., New York Division

Chain of Custody

J6L0723

Client: Town of Vestal

Project: Monthly

Project Number: Town of Vestal Monthly/Quarterly

Field Route ID: NY-Route 1 Bing

Tenatively Scheduled: 12/13/2016

Report To:

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:

Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: J6L0723-01
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 12-16-16 0749
buc

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-2A Finished

Lab Sample ID: J6L0723-02
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 12-16-16 0751
buc

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-3 Raw

Lab Sample ID: J6L0723-03
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 12-16-16 0755

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6L0723

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tenatively Scheduled: **12/13/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 1-3 Finished

Lab Sample ID: **J6L0723-04**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 12-16-16 @ 0758

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: **J6L0723-05**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 12-16-16 @ 0823

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: **J6L0723-06**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 12-16-16 @ 0825

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6L0723

Client: **Town of Vestal**Project: **Monthly**Field Route ID: **NY-Route 1 Bing**Project Number: **Town of Vestal Monthly/Quarterly**Tenatively Scheduled: **12/13/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: Trip BlankLab Sample ID: **J6L0723-07**Matrix: **Drinking Water**Type: **Trip Blank**Sampled Date & Time: 12-15-16 @ 1600

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			1

Sampled by: <u>Bethany Robinson</u>	Date/Time: <u>12-16-16 @ 1400</u>	Received by: _____
Printed Name: Bethany Robinson		Printed Name: _____
Relinquished by: <u>Bethany Robinson</u>	Date/Time: <u>12-16-16 @ 1401</u>	Received by: <u>Jennifer Walker</u>
Printed Name: Bethany Robinson		Printed Name: Jennifer Walker
Relinquished by: _____	Date/Time: _____	Received by: _____
Printed Name: _____		Printed Name: _____

As Recieved at Laboratory: On Ice: ☒ Yes / No Temp 3.8 °C Total Bottles 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via Route Sheets by BNR 12/12/2016 09:51



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6L0723

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tenatively Scheduled: **12/13/2016****Report To:**

Bill Peltz
 701 Vestal Parkway West
 Vestal, NY 13850-1363
 Phone: (607) 748-1514

Invoice To:

Darlene Skiba
 701 Vestal Parkway West
 Vestal, NY 13850-1363
 Phone : (607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: **J6L0723-01**
 Matrix: **Drinking Water**
 Type: **Grab**

Sampled Date & Time: 12-16-16 0749
for

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-2A Finished

Lab Sample ID: **J6L0723-02**
 Matrix: **Drinking Water**
 Type: **Grab**

Sampled Date & Time: 12-16-16 0751
for

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 1-3 Raw

Lab Sample ID: **J6L0723-03**
 Matrix: **Drinking Water**
 Type: **Grab**

Sampled Date & Time: 12-16-16 0755

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)



Microbac Laboratories, Inc., New York Division

Chain of Custody

J6L0723

Client: Town of Vestal

Project: Monthly

Project Number: Town of Vestal Monthly/Quarterly

Field Route ID: NY-Route 1 Bing

Tenatively Scheduled: 12/13/2016

V-40ml Clear Vial, Ascorbic Acid, HCL			
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 1-3 Finished

Lab Sample ID: J6L0723-04
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 12-16-16 @ 0758

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: J6L0723-05
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 12-16-16 @ 0823

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: J6L0723-06
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 12-16-16 @ 0825

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)
		V-40ml Clear Vial, Ascorbic Acid, HCL	



Microbac Laboratories, Inc., New York Division
Chain of Custody
J6L0723

Client: **Town of Vestal**Project: **Monthly**Field Route ID: **NY-Route 1 Bing**Project Number: **Town of Vestal Monthly/Quarterly**Tenatively Scheduled: **12/13/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers: 2			

Sample ID: Trip Blank

Lab Sample ID: **J6L0723-07**
Matrix: **Drinking Water**
Type: **Trip Blank**

Sampled Date & Time: 12-15-16 @ 1600

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers: 1			

Sampled by: <u>Bethany Robinson</u>	Date/Time: <u>12-16-16 @ 1400</u>	Received by: _____
Printed Name: Bethany Robinson		Printed Name: _____
Relinquished by: <u>Bethany Robinson</u>	Date/Time: <u>12-16-16 @ 1401</u>	Received by: <u>Jennifer Walker</u>
Printed Name: Bethany Robinson		Printed Name: Jennifer Walker
Relinquished by: _____	Date/Time: _____	Received by: _____
Printed Name: _____		Printed Name: _____

As Recieved at Laboratory: On Ice: ☒ Yes / No Temp 3.8 °C Total Bottles 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via Route Sheets by BNR 12/12/2016 09:51

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855 Route 146

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