

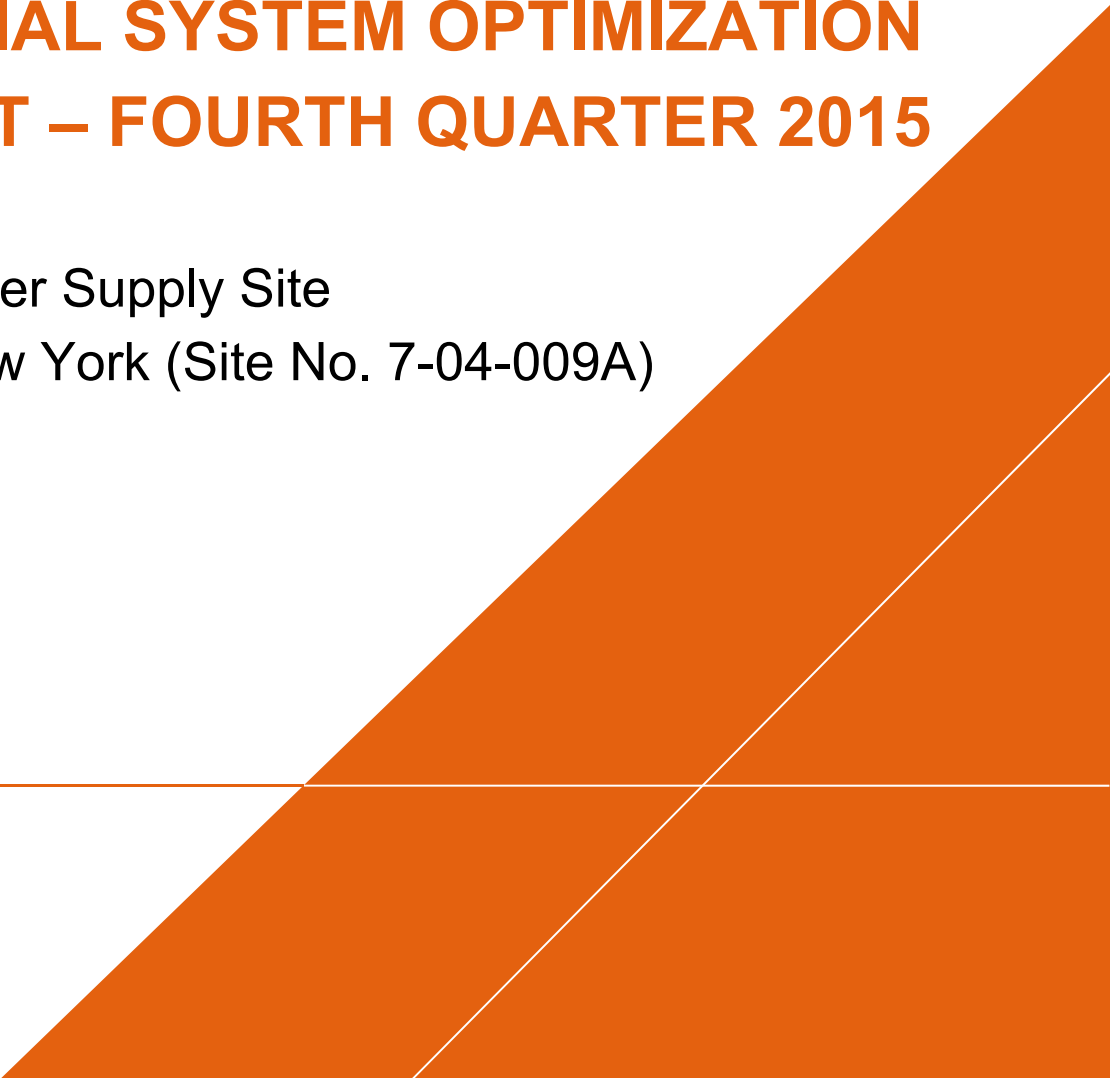
New York State Department of Environmental
Conservation

Division of Environmental Remediation

REMEDIAL SYSTEM OPTIMIZATION REPORT – FOURTH QUARTER 2015

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

May 2017

A large orange geometric shape, resembling a stylized triangle or a section of a circle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, one slightly offset from the other, creating a layered effect. A thin white line runs diagonally across the shape. A horizontal white line also crosses the page, passing through the orange shape.

**REMEDIAL SYSTEM
OPTIMIZATION
REPORT – FOURTH
QUARTER 2015**

Vestal Water Supply Site

Site No. 7-04-009A



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Prepared by:

Arcadis CE, Inc.

855 Route 146

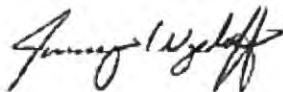
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1 INTRODUCTION

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 2015 through December 2015 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 (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 October 12, 2015 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. As shown in Table 2-2, LNAPL was not detected in any of the monitoring wells during the October 12, 2015 gauging event. Based on gauging data presented in the 2012 Conceptual Site Model (Lockheed Martin, 2012), light non-aqueous phase liquid (LNAPL) has previously been identified in ERT-1S. Monitoring well ERT-1S, as well as the surrounding ERT monitoring wells will continue to be monitored during the next quarter.

The October 12, 2015 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 October 2015 Potentiometric Maps (October 12, 2015)

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 northwest, 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 2015 Groundwater Sampling

On November 4, 2015 groundwater samples were collected using PDBs that were deployed on October 12, 2015 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) were not sampled during this event. 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 2015 Groundwater Sampling Results

Groundwater results from the November 2015 groundwater sampling event are provided in Table 2-3. The VOCs measured at the highest concentrations were benzene, 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 five wells that are screened in the shallow groundwater zone; 4009-9, 4009-10, 4009-13A, 4009-16A, and 4009-30A. Monitoring well 4009-11A was the only well in the shallow groundwater zone that did not have any VOCs detected. Benzene was the only VOC detected in four of the five wells (4009-10, 4009-13A, 4009-16A, 4009-30A), but only exceeded NYSDEC Class GA Groundwater Standard in one of those four wells (4009-16A). Benzene and cis-1,2 DCE concentrations were the only VOCs that exceeded NYSDEC Class GA Groundwater Standards in monitoring well 4009-9. The total VOCs measured at each of the shallow monitoring wells is as follows; 4009-9 (24.4 µg/L), 4009-10 (0.97 µg/L), 4009-13A (0.44 µg/L), 4009-16A (3.0 µg/L), and 4009-30A (0.60 µg/L).

As shown on Figure 2-6 and Table 2-3, the highest concentrations of VOCs are in the intermediate groundwater zone, down-gradient of the source area (ECO International property). The highest VOC concentrations in groundwater samples collected during the November sampling event were from well 4009-29I. The VOC concentrations in the intermediate groundwater zone ranged from 0.61 µg/L at monitoring well 4009-27I to the maximum concentration of total VOCs in groundwater sample collected from 4009-29I (2,690 µg/L).

The following nine 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, 4009-21, 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 five of the nine monitoring wells listed above. The total VOCs measured in the remaining deep monitoring wells is as follows; 4009-11 (140 µg/L), 4009-12 (178 µg/L), 4009-29D (37.54 µg/L), and Well 1-1 (582 µg/L).

Figure 2-8 shows the plume under the revised sample list. As shown on Figure 2-8, the highest groundwater concentrations were detected in the 4009-29 well cluster. The area of highest concentrations extends slightly southward to the 4009-27 cluster and to the northwest past 4009-12 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.

Quarterly groundwater monitoring data indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment plant. Changes in the VOC concentration figures are primarily associated with the exclusion of the source area monitoring wells and Well 1-1A since the baseline sampling event, as well as the revised sampling list which concentrates primarily on the plume migration on the north side of NYS Route 17. The concentration fluctuations in monitoring wells 4009-12 and 4009-11 also influences in the plume distribution figures. Historically the concentrations surrounding the ECO international property have been the greatest, consistent with this property being the source area.

Total VOCs detected in the groundwater samples collected in the November 2015 sampling event are generally consistent with the range of results reported during the last seven sampling events (February, March, May, August 2014, April/May, July, and November 2015). Well 4009-21 and Well 1-1 were the only monitoring wells with a relatively higher concentration of total VOCs (11 µg/L and 582 µg/L, respectively) than previous results. Benzene was the only VOC that was detected above the standard in monitoring well 4009-21. The concentration of VOCs in monitoring wells 4009-18 and 4009-19 were both non-detect. The VOCs 1,1-DCA and benzene were detected at an estimated concentration less than the NYSDEC Class GA Groundwater Standards in monitoring well 4009-30 (0.52 J µg/L and 0.44 J µg/L respectively) and benzene was detected at an estimated concentration less than the NYSDEC Class GA Groundwater Standard in monitoring well 4009-30A (0.60 J µg/L). These detections in monitoring wells 4009-30 and 4009-30A are generally consistent with the previous sampling events. As detailed above in Section 2.1, these six wells were added to the sampling list in March 2015 and therefore no historical groundwater data exist for these wells prior to Arcadis's April/May 2015 sampling event. Concentration trends will continue to be monitored during the next quarter.

Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestals water supply wells 1-2A and 1-3 are less than the NYSDEC Class GA Groundwater Standards with the exception of benzene in monitoring well 4009-16A and 4009-21.

Benzene concentrations have increased in the core of the plume over the past seven sampling events. During the November 2015 sampling event, benzene was detected in the following shallow monitoring wells; 4009-9 (2.5 µg/L), 4009-10 (0.97 J µg/L), 4009-13A (0.44 J µg/L), 4009-16A (3.0 µg/L), and 4009-

30A (0.60 J µg/L), in the intermediate groundwater monitoring zone at monitoring well 4009-27I (0.61 J µg/L), and the deep monitoring wells; 4009-12 (2.4 µg/L), 4009-13 (3.2 µg/L), 4009-14 (12 µg/L), 4009-15 (8.0 µg/L), 4009-21 (11 µg/L), 4009-22 (1.2 µg/L), and 4009-30 (0.44 J µg/L). Eight of the thirteen wells listed above exceeded the NYSDEC Class GA Groundwater Standard of 1.0 µg/L for benzene (Figures 2-9 through 2-12).

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 13, 2015, November 10, 2015, and December 22, 2015. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 on October 12, 2015, November 4, 2015, and December 21, 2015. 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 have not been 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 Well 1-2A and Well 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 at the current monitoring locations while the Well 1-1A treatment plant is shut down to evaluate groundwater contaminant distribution over time.

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 (March 2016).

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TABLES



Table 2-1 Summary of the Groundwater Monitoring Locations
Remedial Site Optimization Report /Fourth Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	2015 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
4009-30A	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			4/1/2015			7/13/2015			10/12/2015			
		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)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	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	7.64	NP	824.34	6.89	NP	825.09	8.03	NP	823.95	
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88	19.77	NP	808.01	19.22	NP	807.56	19.22	NP	808.56	18.11	NP	809.67	20.64	NP	807.14	
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	15.90	NP	807.57	14.87	NP	808.60	18.64	NP	804.83	
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	12.22	NP	810.00	10.80	NP	811.42	14.43	NP	807.79	
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	17.80	NP	806.56	16.77	NP	807.59	20.69	NP	803.67	
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	20.48	NP	807.25	19.23	NP	808.50	22.41	NP	805.32	
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	17.74	NP	806.53	16.53	NP	807.74	21.17	NP	803.10	
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	18.26	NP	806.26	17.05	NP	807.47	22.03	NP	802.49	
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	19.23	NP	805.82	18.02	NP	807.03	22.83	NP	802.22	
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	25.48	NP	805.83	24.16	NP	807.15	28.84	NP	802.47	
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	24.89	NP	805.17	24.72	NP	805.34	28.80	NP	801.26	
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	14.94	NP	815.86	14.77	NP	816.03	16.97	NP	813.83	
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	17.45	NP	805.89	17.34	NP	806.00	21.56	NP	801.78	
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	17.91	NP	805.89	17.79	NP	806.01	22.03	NP	801.77	
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	10.37	NP	805.91	10.09	NP	806.19	14.29	NP	801.99	
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	10.09	NP	806.08	9.38	NP	806.79	13.97	NP	802.20	
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	14.80	NP	805.91	14.66	NP	806.05	18.73	NP	801.98	
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	20.76	NP	805.78	20.85	NP	805.69	24.79	NP	801.75	
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	20.93	NP	805.79	26.87	NP	799.85	25.01	NP	801.71	
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	20.94	NP	805.90	27.03	NP	799.81	25.18	NP	801.66	
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	14.55	NP	805.98	14.25	NP	806.28	18.50	NP	802.03	
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	26.51	NP	808.27	29.02	NP	805.76	33.04	NP	801.74	
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	19.15	NP	805.79	19.19	NP	805.75	23.31	NP	801.63	
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	17.04	NP	805.86	17.29	NP	805.61	21.29	NP	801.61	
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	19.33	NP	805.69	19.41	NP	805.61	23.98	NP	801.04
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	11.55	NP	805.85	9.90	NP	807.50	13.28	NP	804.12	
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	17.02	NP	807.46	14.17	NP	810.31	19.10	NP	805.38	
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	17.93	NP	806.46	16.90	NP	807.49	19.13	NP	805.26	
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	16.19	NP	806.13	13.82	NP	808.50	NM	NM	NM	
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	14.81	NP	808.80	13.73	NP	809.88	16.72	NP	806.89	
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	14.75	NP	808.82	13.65	NP	809.92	16.70	NP	806.87	
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	17.94	NP	806.37	16.75	NP	807.56	21.69	NP	802.62	
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	20.27	NP	805.92	19.56	NP	806.63	24.14	NP	802.05	
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	20.03	NP	806.00	19.58	NP	806.45	23.98	NP	802.05	
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	19.86	NP	806.01	19.41	NP	806.46	23.80	NP	802.07	
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	15.80	NP	805.79	15.72	NP	805.87	19.85	NP	801.74	
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	19.80	NP	805.97	19.40	NP	806.37	23.83	NP	801.94	
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	19.89	NP	805.79	19.63	NP	806.05	23.91	NP	801.77	

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-1 2/20/2014 Shallow ug/L	4009-1 5/28/2014 Shallow ug/L	4009-1 8/28/2014 Shallow ug/L	4009-1 12/9/2014 Shallow ug/L	4009-2 2/20/2014 Shallow ug/L	4009-2 5/28/2014 Shallow ug/L	4009-2 8/28/2014 Shallow ug/L	4009-2 12/9/2014 Shallow ug/L	4009-3 2/20/2014 Shallow ug/L	4009-3 5/28/2014 Shallow ug/L	4009-3 8/28/2014 Shallow ug/L	4009-3 12/9/2014 Shallow ug/L	4009-4 2/20/2014 Intermediate ug/L	4009-4 5/28/2014 Intermediate ug/L	4009-4 8/28/2014 Intermediate ug/L	4009-4 12/9/2014 Intermediate ug/L	4009-5 2/20/2014 Intermediate ug/L	4009-5 5/28/2014 Intermediate ug/L	4009-5 8/28/2014 Intermediate 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 U	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 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-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 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
1,3,5-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 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
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	1.5 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 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 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 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
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 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
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 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
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 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	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	1.0 UJ	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 U	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 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
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)		5.7	3.95	5.6	5.11	27.6	22.8	19.9	21.8	122	101	118	81.1	1.5	80.9	5.5	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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-5 12/9/2014 Intermediate	4009-6 2/20/2014 Shallow	4009-6 5/28/2014 Shallow	4009-6 8/28/2014 Shallow	4009-6 12/9/2014 Shallow	4009-7 2/20/2014 Shallow	4009-7 5/28/2014 Shallow	4009-7 8/28/2014 Shallow	4009-7 12/9/2014 Shallow	4009-8 2/20/2014 Intermediate	4009-8 5/28/2014 Intermediate	4009-8 8/28/2014 Intermediate	4009-8 12/9/2014 Intermediate	4009-9 2/20/2014 Shallow	4009-9 5/28/2014 Shallow	4009-9 8/28/2014 Shallow	4009-9 12/9/2014 Shallow	4009-9 4/20/2015 Shallow	4009-9 7/29/2015 Shallow	4009-9 11/4/2015 Shallow
Sampling Date	Standard	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
Groundwater Monitoring Zone	Units																				
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	1.0 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	1.0 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	1.0 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	1.0 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	0.38 J
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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	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	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	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	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	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	2.5
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	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	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	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	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	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	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	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	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	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	21
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.52 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	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	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	2.0 U
Total VOCs		218	9.29	0.88	9.8	0.84	32	62.8	56.8	43.7	1394	1645	3717	2236	20.2	7.96	26	9.1	9.52	18.99	24.4
Total VOCs (w/o Acteone or Methylene Chloride)		218	0.79	0.88	0	0.84	26.7	55.7	42.8	43.7	1384	1645	3717	2236	8.24	4.66	15	9.1	2.42	18.99	24.4

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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-10 2/20/2014 Shallow ug/L	4009-10 5/28/2014 Shallow ug/L	4009-10 8/28/2014 Shallow ug/L	4009-10 12/9/2014 Shallow ug/L	4009-10 4/20/2015 Shallow ug/L	4009-10 7/29/2015 Shallow ug/L	4009-10 11/4/2015 Shallow ug/L	4009-11 2/20/2014 Deep ug/L	4009-11 5/28/2014 Deep ug/L	4009-11 8/28/2014 Deep 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	4009-11A 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
1,1,1-Trichloroethane	5	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	1.9 J	1.0 U	1.0 U	1.0 U	79	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
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 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 UJ	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 UJ	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 UJ	1.0 U	1.0 U	1.0 U
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 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 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	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	1.0 UJ	1.0 U	1.0 U	1.0 U	20	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	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	1.0 UJ	1.0 U	1.0 U	1.0 U	8.7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		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 UJ	5.0 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
1,2,4-Trichlorobenzene	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	1.0 UJ	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
1,2,4-Trimethylbenzne	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	1.0 UJ	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
1,2-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 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 UJ	2.0 U	1.0 U	1.0 U
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 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 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	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 UJ	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
1,2-Dichloroethane	0.6	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 UJ	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
1,2-Dichloropropane	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 UJ	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
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 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 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	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 UJ	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
1,4-Dichlorobenzene	3	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 UJ	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
2-Butanone (MEK)	50	10 U	10 U	10 UJ	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 UJ	10 U	10 U	10 U
2-Hexanone	50*	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 UJ	10 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
4-Methyl-2-pentanone (MIBK)		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 UJ	10 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
Acetone	50*	10	3.2 J	7.5 J	10 U	9.2 J	10 U	10 U	7.8 J	4.6 J	10 UJ	10 U	6.7 J	10 U	10 U	9.8 J	4.1 J	10 J	10 U	7.6 J	10 U
Benzene	1	0.6 J	0.53 J	2.3 J	26	1.0 U	1.8	0.97 J	1.0 U	1.0 U	1.0 UJ	7.8	5.6	8.4	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	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 UJ	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
Bromoform	50*	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 UJ	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
Bromomethane	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	1.0 UJ	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
Carbon disulfide		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 UJ	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
Carbon tetrachloride	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	1.0 UJ	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
Chlorobenzene	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	1.0 UJ	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
Chloroethane	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	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	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 UJ	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
Chloromethane		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 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	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 UJ	1.0 U	1.0 U	1.0 U	12	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-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 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 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		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 UJ	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
Dibromochloromethane	50	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 UJ	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
Dichlorodifluoromethane	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	1.0 UJ	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
Ethylbenzene	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	1.0 UJ	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
Isopropylbenzne (Cumene)	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	1.0 UJ	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
Methyl Acetate		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 UJ	10 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
Methyl Cyclohexane		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 UJ	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
Methylene Chloride	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	1.0 UJ	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
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 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 UJ	1.0 U	1.0 U	1.0 U
Styrene	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	1.0 UJ	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
Tetrachloroethene	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	1.0 UJ	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
Toluene	5	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 UJ	1.0	1.0	1.0	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
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 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 UJ	1.0 U	1.0 U	1.0 U
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 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 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	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	1.0 UJ	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
Trichlorofluoromethane	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	1.0 UJ	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
Vinyl chloride	2	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 UJ	1.0 U	1.0 U	1.0 U	19	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		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 UJ	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
Total VOCs		12.6	3.73	9.8	26.3	9.2	1.8	0.97	7.8	4.6	1.9	8.8	13.3	9.4	140	10 J	4.1	10	0	7.6	0
Total VOCs (w/o Acteone or Methylene Chloride)		2.6	0.53	2.3	26.3	0	1.8	0.97	0	0	1.9	8.8	6.6	9.4	140	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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-11A 11/4/2015 Shallow 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	DUP_01 ⁴ 7/29/2015 Deep ug/L	4009-12 11/4/2015 Deep ug/L	DUP_01 ⁵ 11/4/2015 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	4009-13 12/9/2014 Deep ug/L	4009-13 4/20/2015 Deep ug/L	4009-13 7/29/2015 Deep ug/L
Groundwater Monitoring Zone	Standard																				
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	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
1,1,1-Trichloroethane	5	1.0 U	32	43	1.0 U	290	1.0 U	180	240	67	68	34	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
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	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	1.0 U	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	4.0	6.5	1.0 U	29	1.8	25	24	29	26	4.3	7.8	4.3	2.8	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	3.4	6.1	1.0 U	30	1.0 U	20	29	8.5	7.8	3.8	1.3	0.6 J	0.53 J	1.0 U	1.0 U	1.0 UJ	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	110 U	1.0 U	5.0 U	5.0 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	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	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	44 U	1.0 U	5.0 U	5.0 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	2.0 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	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	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	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	220 U	10 U	50 U	50 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
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	220 U	5.0 U	25 U	25 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	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	220 U	5.0 U	25 U	25 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	10 U	5.0 U	5.0 U
Acetone	50*	10 U	5.8 J	3.8 J	7.0 J	220 U	7.1 J	50 U	50 U	10 U	10 U	9.9 J	3.9 J	10 U	10 U	8.4 J	3.8 J	10 UJ	10 U	8.9 J	10 U
Benzene	1	1.0 U	1.0 U	1.5	1.6	22 U	2.7	2.9 J	5.0 U	2.4	2.2	1.0 U	1.0 U	0.57 J	0.31 J	1.0 U	0.42 J	4.8 J	1.0	0.96 J	1.7
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	22 U*	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	0.83 J	1.0 U	1.0 U	7.5	7.0	4.1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	13	9.5	8.5	63	4.1	41	56	18	17	15	18	15	14	1.0 U	1.0 U	1.0 UJ	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	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U*	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 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 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	220 U	2.5 U	13 U	13 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	10 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 UJ	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	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	0.8 J	0.74 J	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	0.55 J	0.53 J	1 U	1.0 U	3.7	2.7 J	0.55 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 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	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	5	1.0 U	17	18	1.0 U	64	1.0 U	39	54	11	11	19	2.2	1.0	0.30 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	22 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	6.1	3.7	0.9 J	30	2.3	51	41	41	36	6.4	1.0 U	1.7	6.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	44 U	2.0 U	10 U	10.0 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
Total VOCs		0.0	81.3	93.9	18.7	506	18.0	359	444	178	168	92.4	41.3	30.7	28.5	8.4	7.92	7.5	1.55	9.9	1.7
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	75.5	90.1	11.7	506	10.9	359	444	178	168	82.5	37.4	30.7	28.5	0	4.12	7.5	1.55	1.0	1.7

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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-13 11/4/2015 Deep ug/L	4009-13A 2/20/2014 Shallow ug/L	4009-13A 5/28/2014 Shallow ug/L	4009-13A 8/28/2014 Shallow ug/L	4009-13A 12/9/2014 Shallow ug/L	4009-13A 4/20/2015 Shallow ug/L	4009-13A 7/29/2015 Shallow ug/L	4009-13A 11/4/2015 Shallow 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	4009-15 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
Groundwater Monitoring Zone	Standard	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	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	ug/L	ug/L
1,1,1-Trichloroethane	5	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 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 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 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	1.0 U	1.0 U
1,1,2-Trichloroethane	1	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 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 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 U	1.0 U	0.5 J	0.53 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	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 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 UJ	5.0 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	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	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 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 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 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 UJ	2.0 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	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 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 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 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 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 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 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 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 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 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 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 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 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 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 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 UJ	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	1.3 J	10 U	10 U	10 U
2-Hexanone	50*	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	10 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
4-Methyl-2-pentanone (MIBK)		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	10 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
Acetone	50*	10 U	8.4 J	10 U	11 J	10 U	6.8 J	10 U	10 U	6.3 J	4.3 J	11	10 U	7.1 J	10 U	3.1 J	7.5 J	5.1 J	7.2 J	10 U	5.8 J	10 U
Benzene	1	3.2	1.0 U	0.58 J	1.0 UJ	0.96 J	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	0.54 J	1.2	4.0	12	1.0 U	1.0 U	0.5 J	0.86 J	1.8	9.1
Bromodichloromethane	50	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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 UJ	10 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	10 U	2.5 U
Methyl Cyclohexane		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 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 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 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 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 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 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 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 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 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 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J	1.0	0.92 J	1.0	1.2	1.2	1.0 U	0.56 J	0.61 J	0.72 J	0.77 J	1.0
trans-1,2-Dichloroethene	5	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 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 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 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 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 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 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 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 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 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 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 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		3.2	8.4	0.58	11	0.96	6.8	0	0.44	6.3	5.21	12	1.46	9.3	5.2	16.3	8.02	7.49	8.31	1.58	8.37	10.1
Total VOCs (w/o Acteone or Methylene Chloride)																						

Notes
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 - 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.<

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-15 11/4/2015 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	4009-16A 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	4009-16A 7/29/2015 Shallow ug/L	4009-16A 11/4/2015 Shallow ug/L	4009-18 5/6/2015 Deep ug/L	4009-18 7/29/2015 Deep ug/L	4009-18 11/4/2015 Deep ug/L	4009-19 4/20/2015 Deep ug/L	4009-19 7/29/2015 Deep ug/L	4009-19 11/4/2015 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	0.86 J	1.0	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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 U	1.0 U
1,2,3-Trimethylbenzene		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	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
1,2,4-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	1.0 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	1.0 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	2.0 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
1,2-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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	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	1.6 J	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
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	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
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	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
Acetone	50*	4.9 J	5.9 J	3.5 J	7.1 J	10 U	6.0 J	10 U	10.0 U	12	4.0 J	7.6 J	10 U	6.4 J	10 U	10.0 U	10.0	10.0 U	10.0 U	8.5 J	10.0 U	10.0 U
Benzene	1	8.0	1.0 U	1.0 U	8.2	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.9	7.2	8.0	5.7	11	3.0	1.0 U	1.0 U	1.0 U	2.7	1.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.0 U	1.0 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	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
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	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	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	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	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	1.0 U	1.0 U
Toluene	5	0.84 J	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	1.0 U	1.0 U	1.0 U	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	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	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	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	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	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	2.0 U	2.0 U
Total VOCs		13.74	5.9	3.5	16.8	0.39	6.0	0	0.0	13.6	5.9	14.8	8.0	12.1	11	3.0	14.16	1.0	0.0	11.2	1.0	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		8.84	0	0	9.7	0.39	0	0	0.0	1.6	1.9	7.2	8.0	5.7	11	3.0	4.16	1.0	0.0	2.7	1.0	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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-21 4/20/2015	4009-21 7/29/2015	4009-21 11/4/2015	4009-22 12/3/2013	4009-22 2/20/2014	4009-22 5/28/2014	4009-22 8/28/2014	4009-22 12/9/2014	4009-22 4/20/2015	4009-22 7/29/2015	4009-22 11/4/2015	4009-23S 2/20/2014	4009-23S 5/28/2014	4009-23S 8/28/2014	4009-23S 12/9/2014	4009-23D 2/20/2014	4009-23D 5/28/2014	4009-23D 8/28/2014	4009-23D 12/9/2014	4009-24 2/20/2014
Sampling Date	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow
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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130 D	720	140 DJ	570
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	10 U	1.0 UJ	6.7 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	24	18	12 J	8.2
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	10 U	1.0 UJ	6.7 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	3.2	4.4	2.5 J	2.2	250 D	420	220 DJ	280	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	31	78	23 J	40	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	5.0 U	1.0 U	1.0 U	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
1,2,4-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 UJ	6.7 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	8.6	2.0	4.2 J	1.0 U	10 UD	10 U	1.0 UJ	6.7 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	2.0 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 UJ	13 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 UJ	6.7 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 UJ	6.7 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	0.4 J	10 U	0.39 J	6.7 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 UJ	6.7 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	4.4	1.2	4.0 J	1.0 U	10 UD	10 U	1.0 UJ	6.7 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 UJ	6.7 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 UJ	6.7 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	100 U	10 U	1.0 UJ	67 U	1.4 J
2-Hexanone	50*	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	5.0 U	5.0 U	5.0 UJ	67 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	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	67 U	5.0 U
Acetone	50*	7.9 J	10.0 U	10 U	3.1 J	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	6.1 J	10 U	7.2 J	10 U	8.3 J	100 U	9.8 J	67 U	9.3 J
Benzene	1	1.0 U	1.0 U	11	0.7 J	0.7 J	0.92 J	0.98 J	0.82 J	1.2	1.1	1.2	1.8	1.8	1.8 J	1.1	1.0 U	10 U	0.62 J	6.7 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 UJ	6.7 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 UJ	6.7 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 UJ	6.7 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 UJ	6.7 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 UJ	6.7 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 UJ	6.7 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	1.2 J	0.64 J	11	11	8.2 J	2.8 J
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 UJ	6.7 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 UJ	6.7 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	2.2	2.2	1.9 J	2.9	580 D	450	460 DJ	330	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 UJ	6.7 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	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
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 UJ	6.7 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 UJ	6.7 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	0.83 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	6.7 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	5.3	3.6	5.8 J	2.2	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U
Methyl Acetate		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	2.5 UJ	10 U	2.5 U	25 U	2.5 UJ	67 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	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
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 UJ	6.7 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 UJ	6.7 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 UJ	6.7 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 UJ	6.7 U	1.0 U
Toluene	5	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	6.7 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	2.4	2.8	1.8 J	1.8	2.3	10 U	1.3 J	6.7 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 UJ	6.7 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	1.6	1.6	1.3 J	1.8	8.7	8.3 J	6.1 J	4.9 J	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 UJ	6.7 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	0.9 J	1.1	1.1 J	0.80 J	630 D	440	530 DJ	340	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	20 U	2.0 UJ	13 U	2.0 U
Total VOCs		7.9	0	11	4.4	13.2	2.02	12.8	1.46	8.63	2.2	2.01	39.8	23.1	34.1	13.4	1676	2145	1411	1576	10.7
Total VOCs (w/o Acteone or Methylene Chloride)		0	0	11	1.34	1.24	2.02	1.81	1.46	2.13	2.2	2.01	33.7	23.1	26.9	13.4	1667	2145	1402	1576	1.4

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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	DUP-02 ² 2/20/2014 Shallow ug/L	4009-25D 5/28/2014 Shallow ug/L	DUP-02 ² 5/28/2014 Shallow ug/L	4009-25D 8/28/2014 Shallow ug/L	DUP-02 ² 8/28/2014 Shallow ug/L	4009-25D 12/9/2014 Shallow ug/L	DUP-02 ² 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
1,1,1-Trichloroethane	5	1.0 U	1.0 UJ	1.0 U	2600 D	3300	9900 DJ	3800	1900 D	1800 D	3300	3200	820 DJ	810 DJ	1900	1800	98	370	150 DJ	92
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 UJ	1.0 U	31	40 U	40 UDJ	32 J	32	31	22 J	16 J	19 DJ	20 DJ	25 J	77 U	7.7	13	6.0 DJ	7.7
1,1,2-Trichloroethane	1	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,1-Dichloroethane	5	1.0 U	1.0 UJ	1.0 U	87	140	120 DJ	99	74	79	120	110	53 DJ	51 DJ	50	53 J	27	39	16 DJ	14
1,1-Dichloroethene	5	1.0 U	1.0 UJ	1.0 U	110 D	410	650 DJ	280	120 D	50	330	330	57 DJ	44 DJ	190	130	6.0	46	9.9 DJ	7.8
1,2,3-Trimethylbenzene		1.0 U	1.0 UJ	5.0 U	40 UD	40 U	40 UDJ	250 U	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	170 U	380 U	2.0 UD	8.0 U	2.0 UD	10 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	2.0 UD	8.0 U	2.0 UD	2.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 UJ	2.0 U	1.0 U	40 U	40 UDJ	100 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	67 U	150 U	1.0 U	8.0 U	2.0 UD	4.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,2-Dichloropropane	1	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	2.0 UD	8.0 U	2.0 UD	2.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
2-Butanone (MEK)	50	10 U	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	10 U	10 U	200 U	250 U	200 UDJ	100 UDJ	330 U	770 U	10 U	80 U	20 UD	20 U
2-Hexanone	50*	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	5.0 U	100 U	130 U	100 UDJ	50 UDJ	330 U	770 U	5.0 U	40 U	10 UD	20 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	5.0 U	100 U	130 U	100 UDJ	50 UDJ	330 U	770 U	5.0 U	40 U	10 UD	20 U
Acetone	50*	4.2 J	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	6.0 J	5.6 J	200 U	250 U	200 UDJ	100 UDJ	330 U	770 U	10	80 U	20 UD	20 U
Benzene	1	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	0.81 J	8.0 U	2.0 UD	0.55 J
Bromodichloromethane	50	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Bromoform	50*	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U*	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U*	77 U	1.0 U	8.0 U	2.0 UD	2.0 U*
Bromomethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Carbon disulfide		1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Carbon tetrachloride	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Chlorobenzene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Chloroethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Chloroform	7	1.0 U	0.44 J	0.48 J	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Chloromethane		1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
cis-1,2-Dichloroethene	5	1.0 U	2.2 J	1.0 U	180 D	210	490 DJ	260	76	80	110	140	100 DJ	94 DJ	260	280	120 D	190	96 DJ	85
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Cyclohexane		1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Dibromochloromethane	50	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	3.9	5.8 J	5.0 DJ	2.8
Ethylbenzene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Methyl Acetate		2.5 U	2.5 UJ	10 U	2.5 U	100 U	100 UDJ	500 U	2.5 U	2.5 U	50 U	63 U	50 UDJ	25 UDJ	330 U	770 U	2.5 U	20 U	5.0 UD	20 U
Methyl Cyclohexane		1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Methylene Chloride	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	26 J B	1.0 U	8.4	2.0 UD	2.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Styrene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Tetrachloroethene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.1	8.0 U	0.97 DJ	0.89 J
Toluene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 UJ	1.0 U	2.9	40 U	40 UDJ	50 U	2.0	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Trichloroethene	5	1.0 U	1.0 UJ	1.0 U	32	40 U	2900 DJ	230	16	15	10 J	25 U	21 DJ	16 DJ	100	84	45	71	47 DJ	49
Trichlorofluoromethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	33 U	77 U	1.0 U	8.0 U	2.0 UD	2.0 U
Vinyl chloride	2	1.0 U	1.0 UJ	1.0 U	3.7	40 U	40 UDJ	29 J	1.4	1.3	20 U	25 U	20 UDJ	12 DJ	32 J	32 J	12	21	13 DJ	9.4
Xylenes, Total		2.0 U	2.0 UJ	2.0 U	2.0 U	80 U	80 UDJ	100 U	2.0 U	2.0 U	40 U	50 U	40 UDJ	20 UDJ	67 U	150 U	2.0 U	16.0 U	4.0 UD	4.0 U
Total VOCs		4.2	2.64	0.48	3047	4060	14060	4730	2227	2062	3892	3821	1070	1047	2557	2405	332	764	344	269
Total VOCs (w/o Acteone or Methylene Chloride)		0	2.64	0.48	3047	4060	14060	4730	2221	2056	3892	3821	1070	1047	2557	2379	322	756	344	269

Notes
NYSDEC GA GW Standard - New York State Department of
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 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L	4009-27I 12/9/2014 Intermediate ug/L	4009-27I 4/20/2015 Intermediate ug/L	4009-27I 7/29/2015 Intermediate ug/L	4009-27I 11/4/2015 Intermediate ug/L	4009-27D 2/20/2014 Deep ug/L	4009-27D 5/28/2014 Deep ug/L	4009-27D 8/28/2014 Deep ug/L	4009-27D 12/9/2014 Deep ug/L	4009-27D 4/20/2015 Deep ug/L
1,1,1-Trichloroethane	5	54	61	65 J	49	61	62	61	1.0 U	1.0 U	1.3 J	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
1,1,2,2-Tetrachloroethane	5	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 UJ	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
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.8	3.4	2.3 J	2.6	3.3	3.3	3.5	1.0 U	0.37 J	1.0 UJ	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	1	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 UJ	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
1,1-Dichloroethane	5	1.9	2.2	2.2 J	1.9 J	2.6	2.7	2.4	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 UJ	1.0 U	1.0 U
1,1-Dichloroethene	5	5.7	8.9	5.6 J	4.6	6.2	10	7.0	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 UJ	1.0 U	1.0 U
1,2,3-Trimethylbenzene		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 UJ	5.0 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
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	2 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 UJ	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	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 UJ	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
1,2-Dibromo-3-Chloropropane	0.04	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 UJ	2.0 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
1,2-Dibromoethane (Ethylene Dibromide)	5	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 UJ	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
1,2-Dichlorobenzene	3	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 UJ	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
1,2-Dichloroethane	0.6	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 UJ	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
1,2-Dichloropropane	1	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 UJ	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
1,3,5-Trimethylbenzene (Mesitylene)	5	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 UJ	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
1,3-Dichlorobenzene	3	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 UJ	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
1,4-Dichlorobenzene	3	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 UJ	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
2-Butanone (MEK)	50	10 U	10 U	10 UJ	20 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 UJ	10 U	10 U
2-Hexanone	50*	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 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U
4-Methyl-2-pentanone (MIBK)		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 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U
Acetone	50*	9.9 J	3.8 J	8.1 UJ	20 U	8.1 J	10 U	10.0 U	5.8 J	10 U	7.9 J	10 U	9.3 J	10.0 U	10.0 U	9.8 J	4.8 J	8.0 J	10 U	7.1 J
Benzene	1	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	0.71 J	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Bromodichloromethane	50	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 UJ	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
Bromoform	50*	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 UJ	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
Bromomethane	5	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 UJ	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
Carbon disulfide		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 UJ	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon tetrachloride	5	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 UJ	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
Chlorobenzene	5	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 UJ	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
Chloroethane	5	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 UJ	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
Chloroform	7	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 UJ	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
Chloromethane		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 UJ	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
cis-1,2-Dichloroethene	5	18	20	19 J	19	21	24	21	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 UJ	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Cyclohexane		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 UJ	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
Dibromochloromethane	50	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 UJ	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
Dichlorodifluoromethane	5	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 UJ	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
Ethylbenzene	5	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 UJ	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
Isopropylbenzne (Cumene)	5	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 UJ	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
Methyl Acetate		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 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U
Methyl Cyclohexane		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 UJ	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
Methylene Chloride	5	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 UJ	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
Methyl Tert Butyl Ether	10	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 UJ	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
Styrene	5	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 UJ	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
Tetrachloroethene	5	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 UJ	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
Toluene	5	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 UJ	0.77 J	0.87 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	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 UJ	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
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Trichloroethene	5	25	28	24 J	22	25	28	25	1.4	1.1	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U
Trichlorofluoromethane	5	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 UJ	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
Vinyl chloride	2	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 UJ	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
Xylenes, Total		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 UJ	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
Total VOCs		117	128	126	99.1	127.2	130	120	7.2	1.47	11.1	1.97	10.17	2.21	0.61	9.8	4.8	8.48	0.0	7.1
Total VOCs (w/o Acteone or Methylene Chloride)		107	124	118	99.1	119.1	130	120	1.4	1.47	3.21	1.97	0.87	2.21	0.61	0	0	0.48	0.0	0.0

Notes
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* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC GA	4009-27D 7/29/2015	4009-27D 7/29/2015	4009-27D 11/4/2015	4009-28 2/20/2014	4009-28 5/28/2014	4009-28 8/28/2014	4009-28 12/9/2014	4009-28 4/20/2015	4009-28 7/29/2015	4009-28 11/4/2015	4009-29S 2/20/2014	4009-29S 5/28/2014	4009-29S 8/28/2014	4009-29S 12/9/2014	4009-29S 4/20/2015	4009-29S 7/29/2015	4009-29S 11/4/2015	4009-29I 2/20/2014	DUP_01 ³ 2/20/2014
Sampling Date	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
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	1.3	2.7	1.0 U	3.0	2.9	2.9	2.3	710 D	650	1000 DJ	480	830	850	760	1700 D	1500 D
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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	12	10 U	7.1 DJ	17 U	8.7 J	7.3 J	20 U	21	20
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	10 U	10 U	10 UD	17 U	20 U	20 U	20 U	0.86 J
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	130 D	35	46 D	29	38	55	49	83	86
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	92	89	62 D	33	37	130	84	150 D	99
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	10 U	10 U	10 UD	83 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	33 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 U	0.41 J
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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 U	10 UD	17 U	20 U	20 U	20 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	100 U	100 UD	170 U	200 U	200 U	200 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	50 U	50 UD	170 U	100 U	100 U	100 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	10 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	5.0 U	5.0 U
Acetone	50*	10.0 U	10.0 U	10.0 U	7.9 J	3.7 J	6.8 J	10 U	6.1 J	10 U	10.0 U	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U	11	13
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	10 U	10 UD	17 U	20 U	20 U	20 U	0.59 J	0.60 J
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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	0.22 J	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U	1.6	1.7
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	2.9	10 U	10 UD	17 U	20 U	20 U	20 U	5.0	4.6
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	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 U	1.1	1.2
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	10 U	10 UD	17 U	20 U	20 U	20 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	0.25 J	1.0 U	1.0 U	1.0 U	260 D	340	410 D	270	320	480	310	400 D	350 D
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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	1.3	10 U	10 UD	17 U	20 U	20 U	20 U	1.2	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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	25 U	25 UD	170 U	20 U	20 U	50 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U	2.1	2.0
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	10 U	10 UD	17 U	20 U	20 U	20 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	1.5	10 U	10 UD	17 U	20 U	20 U	20 U	3.4	1.5
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	10 U	10 UD	17 U	20 U	20 U	20 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	300 D	10 U	27 D	3.5 J	20 U	20 U	20 U	450 D	410 D
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	10 U	10 UD	17 U	20 U	20 U	20 U	0.94 J	1.1
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	43	15	42 D	16 J	24	65	82	85	75
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	20 U	20 UD	33 U	40 U	40 U	40 U	2.0 U	2.0 U
Total VOCs		0	0	0.0	9.2	6.7	6.8	3.53	9.22	2.9	0.0	1560	1129	1594	837	1257.7	1587	1285	2917	2567
Total VOCs (w/o Acteone or Methylene Chloride)		0	0	0.0	1.3	3.01	0	3.53	3.12	2.9	0.0	1554	1129	1594	832	1257.7	1587	1285	2906	2554

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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2015
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA	4009-29I 5/28/2014	DUP_01 ³ 5/28/2014	4009-29I 8/28/2014	DUP_01 ³ 8/28/2014	4009-29I 12/9/2014	DUP_01 ¹ 12/9/2014	4009-29I 4/20/2015	4009-29I 7/29/2015	DUP_02 ¹ 7/29/2015	4009-29I 11/4/2015	DUP_02 ⁵ 11/4/2015	4009-29D 2/20/2014	4009-29D 5/28/2014	4009-29D 8/28/2014	4009-29D 12/9/2014	4009-29D 4/20/2015	4009-29D 7/29/2015	4009-29D 11/4/2015	4009-30 4/20/2015
Sampling Date	Standard	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	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	1600	1500	130 DJ	130 DJ	1100	1100	1500	1700	1700	1400	1300	1.0 U	80	1200 DJ	170	290	30	14	0.98 J
1,1,2,2-Tetrachloroethane	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		25 U	25 U	2.0 UD	2.0 UD	15 J	15 J	15 J	40 U	20	40 U	20 U	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	96	89	21 DJ	20 DJ	82	83	100	100	97	90	81	1.1	16	150 DJ	27	51	12	4.2	0.86 J
1,1-Dichloroethene	5	230	230	6.4 DJ	5.7 DJ	92	83	85	240	240	200	160	1.0 U	12	130 DJ	27	29	5.7	2.0	1.0 U
1,2,3-Trimethylbenzene		25 U	25 U	2.0 UD	2.0 UD	200 U	200 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	25 U	25 U	2.0 UD	2.0 UD	80 U	80 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	250 U	250 U	20 UD	20 UD	400 U	400 U	400 U	400 U	200 U	400 U	200 U	10 U	10 U	10 U	57 U	50 U	10 U	10 U	10 U
2-Hexanone	50*	130 U	130 U	10 UD	10 UD	400 U	400 U	200 U	200 U	100 U	200 U	100 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		130 U	130 U	10 UD	10 UD	400 U	400 U	200 U	200 U	100 U	200 U	100 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U
Acetone	50*	250 U	250 U	12 DJ	14 DJ	400 U	400 U	400 U	400 U	200 U	400 U	200 U	6.9 J	10 U	10 U	57 U	50 U	10 U	10 U	7.0 J
Benzene	1	25 U	25 U	41 DJ	41 DJ	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	0.70 J	1.0 U	1.0 U
Bromodichloromethane	50	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U	1.2	1.0 U
Chloroform	7	25 U	25 U	1.1 DJ	0.95 DJ	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	400	380	53 DJ	50 DJ	330	330	380	530	520	410	390	1.4	25	400 DJ	150	210	37	8.0	1.0 U
cis-1,3-Dichloropropene	0.4	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		63 U	63 U	5.0 UD	5.0 UD	400 U	400 U	100 U	100 U	50 U	100 U	50 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	25 U	25 U	1.2 DJ	1.1 DJ	14 J E	15 J E	18 J	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	2.0 J B	5.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	25 U	25 U	3.7 DJ	3.6 DJ	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	460	430	34 DJ	33 DJ	360	360	410	550	550	480	440	1.8	17	400 DJ	26	20	0.78 J	0.94 J	1.0 U
Trichlorofluoromethane	5	25 U	25 U	2.0 UD	2.0 UD	40 U	40 U	40 U	40 U	20 U	40 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	85	78	6.6 DJ	6.3 DJ	78	68	92	140	140	110	110	4.7	12	170 DJ	34	55	7.8	7.2	1.0 U
Xylenes, Total		50 U	50 U	4.0 UD	4.0 UD	80 U	80 U	80 U	80 U	40 U	80 U	40 U	2.0 U	2.0 U	2.0 U	11 U	10 U	2.0 U	2.0 U	2.0 U
Total VOCs		2871	2707	310	306	2071	2054	2600	3260	3267	2690	2481	15.9	165	2480	439	674	94.0	37.54	8.84
Total VOCs (w/o Acteone or Methylene Chloride)		2871	2707	297	291	2057	2039	2582	3260	3267	2690	2481	9.0	165	2480	437	674	94.0	37.54	1.84

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
* - Laboratory control sample / duplicate exceeds control limits.
1-This is a duplicate sample from 4009-29I

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-30 7/29/2015 Deep ug/L	4009-30 11/4/2015 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	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
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	220	240	350
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1	5.0 U	5.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5	0.82 J	0.52 J	1.0 U	1.0 U	1.0 U	15	18	28
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10	30	41
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	40 U	50 U	50 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	25 U	25 U
Acetone	50*	10 U	10 U	6.9 J	10 U	10 U	40 U	50 U	50 U
Benzene	1	1.0 U	0.44 J	0.75 J	2.5	0.60 J	4.0 U	5.0 U	5.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	39	66	82
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	13 U	13 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	41	64	81
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U	10 U	10 U
Total VOCs		0.82	0.96	7.65	2.5	0.60	329	418	582
Total VOCs (w/o Acteone or Methylene Chloride)		0.82	0.96	0.75	2.5	0.60	329	418	582

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
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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
* - Laboratory control sample / duplicate exceeds control limits.
1-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**
Sampling Date	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	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	NS
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
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
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
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
Tetrachloroethene	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
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
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
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
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
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
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
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
Total VOCs		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 3/12/2015** ug/L	Well 1-2A Influent 3/19/2015** ug/L	Well 1-2A Influent 4/9/2015 ug/L	Well 1-2A Influent 4/20/2015 ug/L	Well 1-2A Influent 5/6/2015 ug/L	Well 1-2A Influent 5/12/2015 ug/L	Well 1-2A Influent 6/9/2015 ug/L	Well 1-2A Influent 6/25/2015 ug/L	Well 1-2A Influent 7/29/2015 ug/L	Well 1-2A Influent 8/11/2015 ug/L	Well 1-2A Influent 8/28/2015 ug/L	Well 1-2A Influent 9/15/2015 ug/L	Well 1-2A Influent 9/24/2015 ug/L	Well 1-2A Influent 10/12/2015 ug/L	Well 1-2A Influent 10/13/2015 ug/L	Well 1-2A Influent 11/4/2015 ug/L	Well 1-2A Influent 11/10/2015 ug/L
1,1,1-Trichloroethane	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NS	NS	NA	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	NA	1.0 U	NA
1,1,2-Trichloroethane	1	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NS	NS	0.5 U	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	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NS	NS	NA	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	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NS	NS	NA	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	NA	1.0 U	NA
1,2-Dichlorobenzene	3	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NS	NS	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA
2-Hexanone	50*	NS	NS	NA	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	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NS	NS	NA	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	NA	5.0 U	NA
Acetone	50*	NS	NS	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA
Benzene	1	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	NS	NS	NA	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	NA	1.0 U	NA
Bromoform	50*	NS	NS	NA	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	NA	1.0 U	NA
Bromomethane	5	NS	NS	0.5 U	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	NA	1.0 U	NA
Carbon disulfide		NS	NS	NA	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	NA	1.0 U	NA
Carbon tetrachloride	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Chloroethane	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Chloroform	7	NS	NS	NA	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	NA	1.0 U	NA
Chloromethane		NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Cyclohexane		NS	NS	NA	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	NA	1.0 U	NA
Dibromochloromethane	50	NS	NS	NA	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	0.5 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Methyl Acetate		NS	NS	NA	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	2.5 U	NA
Methyl Cyclohexane		NS	NS	NA	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	NA	1.0 U	NA
Methylene Chloride	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Styrene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Toluene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Trichloroethene	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	NS	NS	0.5 U	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	0.5 U	1.0 U	0.5 U
Xylenes, Total		NS	NS	0.5 U	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	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

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 ug/L	Well 1-2A Influent 12/21/2015 ug/L	Well 1-2A Influent 12/22/2015 ug/L	Well 1-3 Influent 7/22/2014 ug/L	Well 1-3 Influent 7/30/2014 ug/L	Well 1-3 Influent 8/18/2014 ug/L	Well 1-3 Influent 8/28/2014 ug/L	Well 1-3 Influent 9/29/2014 ug/L	Well 1-3 Influent 9/30/2014 ug/L	Well 1-3 Influent 10/21/2014 ug/L	Well 1-3 Influent 10/28/2014 ug/L	Well 1-3 Influent 11/11/2014 ug/L	Well 1-3 Influent 11/24/2014 ug/L	Well 1-3 Influent 12/9/2014 ug/L	Well 1-3 Influent 12/18/2014 ug/L	Well 1-3 Influent 1/20/2015 ug/L	Well 1-3 Influent 1/29/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	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
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	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
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	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
1,1,2-Trichloroethane	1	1.0 U	0.5 U	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
1,1-Dichloroethane	5	1.0 U	0.5 U	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
1,1-Dichloroethene	5	1.0 U	0.5 U	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
1,2,3-Trimethylbenzene		5.0 U	NA	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
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	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
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	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
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	NA	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
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	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
1,2-Dichlorobenzene	3	1.0 U	0.5 U	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
1,2-Dichloroethane	0.6	1.0 U	0.5 U	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
1,2-Dichloropropane	1	1.0 U	0.5 U	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
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	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
1,3-Dichlorobenzene	3	1.0 U	0.5 U	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
1,4-Dichlorobenzene	3	1.0 U	0.5 U	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
2-Butanone (MEK)	50	10 U	NA	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS
2-Hexanone	50*	10.0 U	NA	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
4-Methyl-2-pentanone (MIBK)		10.0 U	NA	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
Acetone	50*	10 U	NA	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS
Benzene	1	1.0 U	0.5 U	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
Bromodichloromethane	50	1.0 U	NA	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
Bromoform	50*	1.0 U	NA	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
Bromomethane	5	1.0 U	NA	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
Carbon disulfide		1.0 U	NA	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
Carbon tetrachloride	5	1.0 U	0.5 U	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
Chlorobenzene	5	1.0 U	0.5 U	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
Chloroethane	5	1.0 U	0.5 U	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
Chloroform	7	1.0 U	NA	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
Chloromethane		1.0 U	0.5 U	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
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	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
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	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
Cyclohexane		1.0 U	NA	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
Dibromochloromethane	50	1.0 U	0.5 U	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
Dichlorodifluoromethane	5	1.0 U	0.5 U	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
Ethylbenzene	5	1.0 U	0.5 U	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
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	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
Methyl Acetate		10 U	NA	NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS
Methyl Cyclohexane		1.0 U	NA	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
Methylene Chloride	5	1.0 U	0.5 U	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
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	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
Styrene	5	1.0 U	0.5 U	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
Tetrachloroethene	5	1.0 U	0.5 U	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
Toluene	5	1.0 U	0.5 U	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
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	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
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	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
Trichloroethene	5	1.0 U	0.5 U	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
Trichlorofluoromethane	5	1.0 U	0.5 U	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
Vinyl chloride	2	1.0 U	0.5 U	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
Xylenes, Total		2.0 U	0.5 U	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
Total VOCs		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 2/25/2015	Well 1-3 Influent 3/12/2015	Well 1-3 Influent 3/19/2015	Well 1-3 Influent 4/9/2015	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 10/13/2015	Well 1-3 Influent 11/4/2015
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
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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	NA	1.0 U	NA	1.0 U	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	0.5 U	1.0 U	NA	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	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	0.5 U	1.0 U	NA	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	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	0.5 U	1.0 U	NA	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	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	10 U	NA	10 U	NA	10 U	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	5.0 U	NA	5.0 U	NA	5.0 U	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	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U
Acetone	50*	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	NA	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	NA	1.0 U
Bromoform	50*	1.0 U	0.5 U	1.0 U	NA	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	NA	1.0 U
Bromomethane	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
Carbon disulfide		1.0 U	NA	1.0 U	NA	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	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	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U
Chlorobenzene	5	1.0 U	NA	1.0 U	0.5 U	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	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	0.5 U	1.0 U	NA	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	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	0.5 U	1.0 U	NA	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	0.5 U	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	2.5 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	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	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	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	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1 U	1.0 U	0.5 U	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	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 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	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	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

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

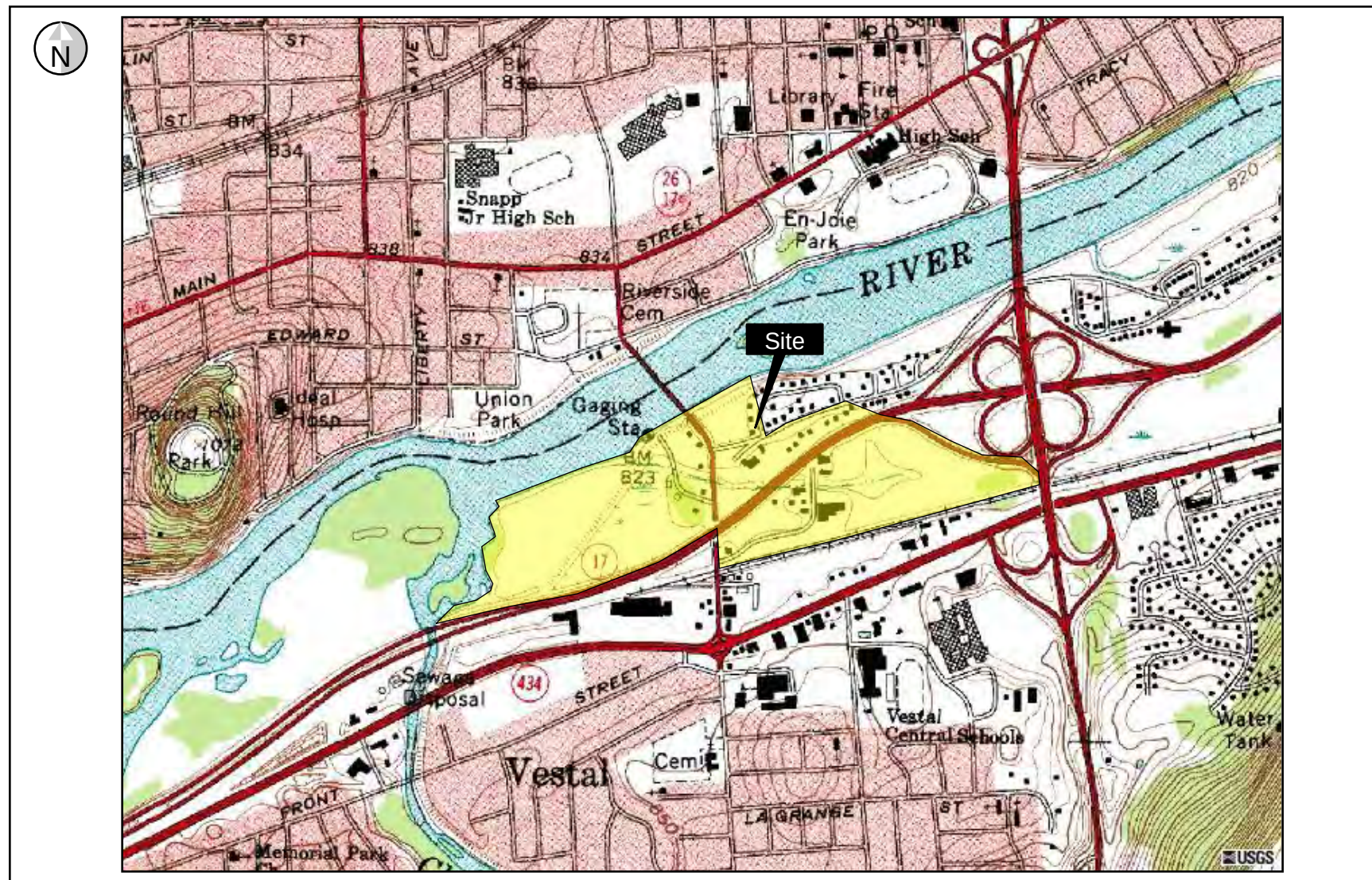
Sample ID	NYSDEC GA	Well 1-3 Influent	Well 1-3 Influent	Well 1-3 Influent
Sampling Date	Standard	11/10/2015	12/21/2015	12/22/2015
Units	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA
1,1,2-Trichloroethane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

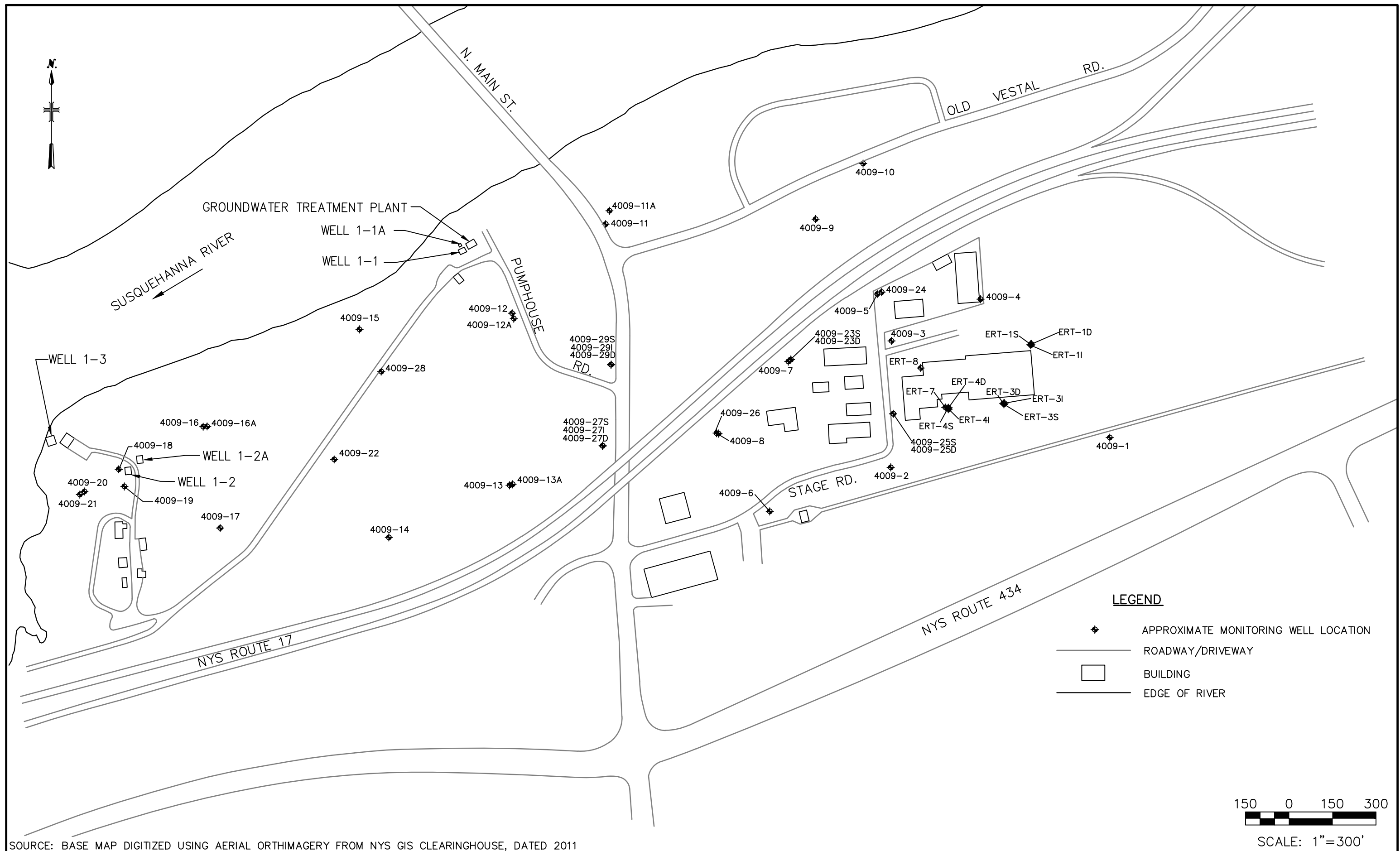
FIGURES



Figure 1-1
Site Location
Vestal Water Supply Site
Vestal, New York
NYSDEC Site # 7-04-009A



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

FEBRUARY 2015
FIGURE 2-1



LEGEND

Well 1-1A



EXTRACTION WELL & IDENTIFIER

4009-16A



MONITORING WELL & IDENTIFIER

804.12



(Groundwater Elevation – Feet AMSL)



GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)

Well 1-3



WATER SUPPLY WELL & IDENTIFIER

0 350 700

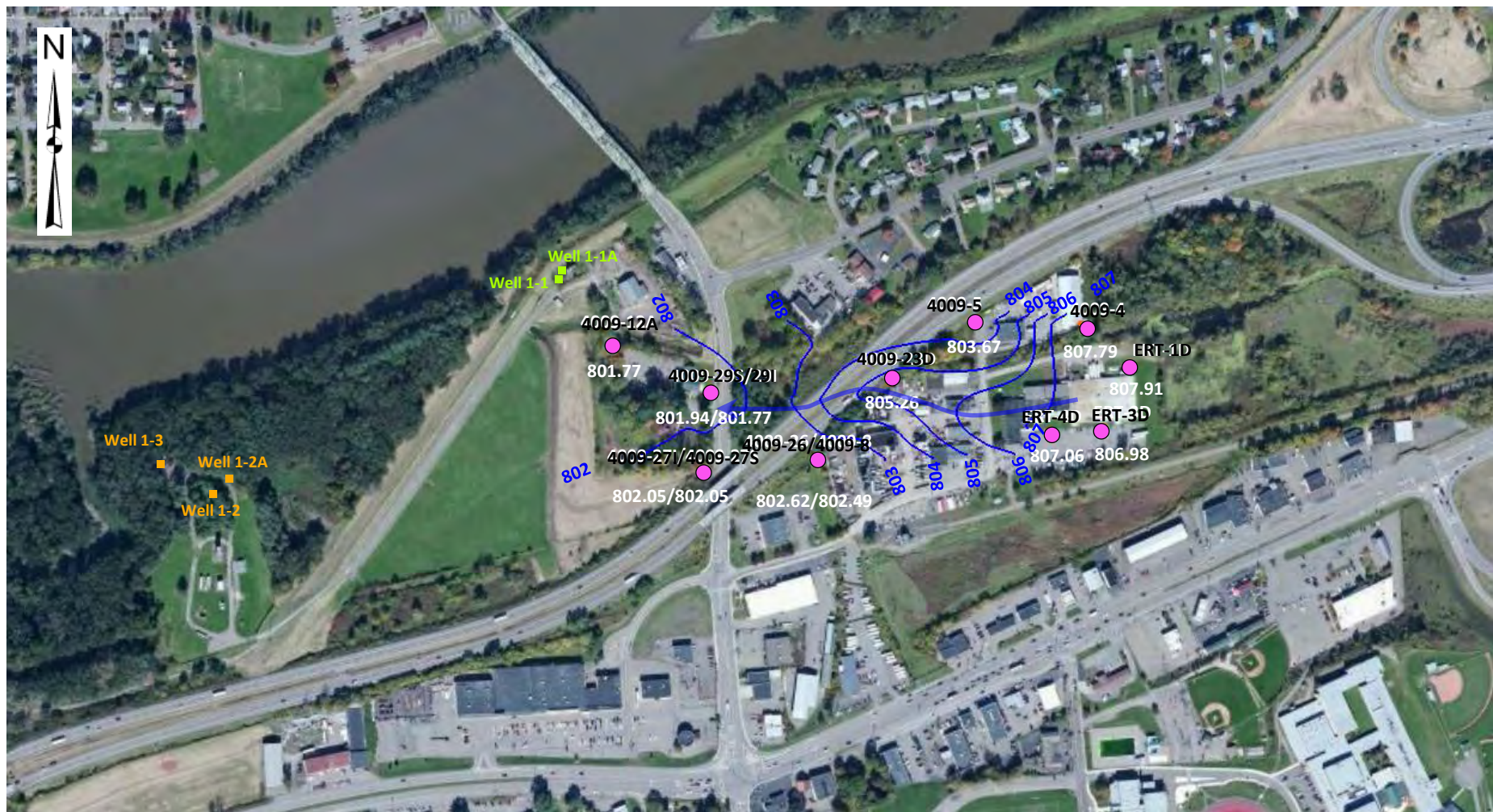
APPROXIMATE SCALE IN FEET

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

Shallow Potentiometric Surface
with Well 1-1A Inactive
(October 12, 2015)

ARCADIS | 2-2

Figure



LEGEND

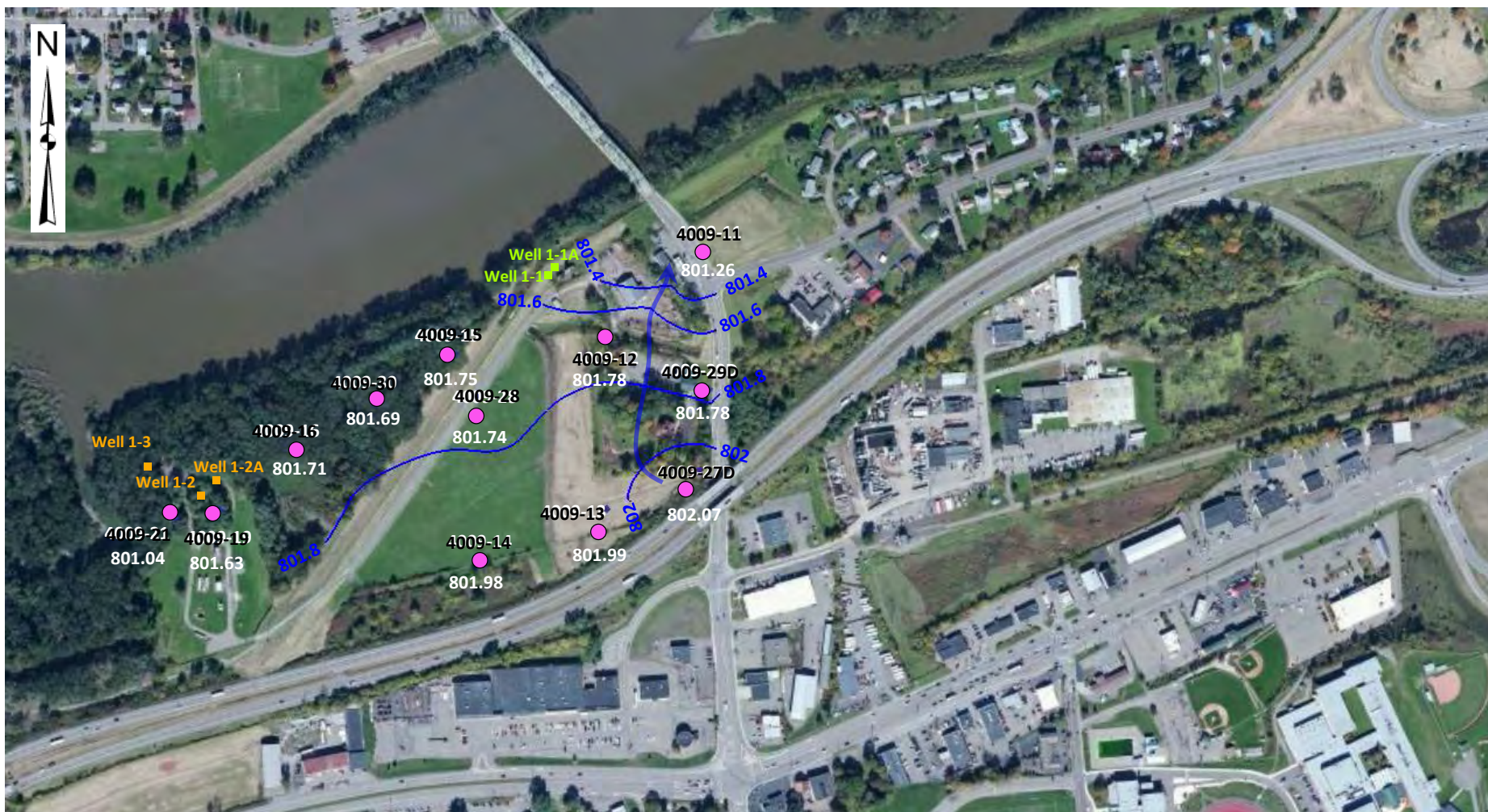
- **Well 1-1A**
EXTRACTION WELL & IDENTIFIER
- **4009-12A**
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- **803.75**
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- ~ **803**
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- **Well 1-3**
WATER SUPPLY WELL & IDENTIFIER

0 350 700
APPROXIMATE SCALE IN FEET

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

**Intermediate Potentiometric
Surface with Well 1-1A Inactive
(October 12, 2015)**

ARCADIS | **2-3** Figure



LEGEND

Well 1-1A



EXTRACTION WELL & IDENTIFIER

4009-15



MONITORING WELL & IDENTIFIER

804.01



(Groundwater Elevation – Feet AMSL)



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
(October 12, 2015)

ARCADIS | 2-4

Figure



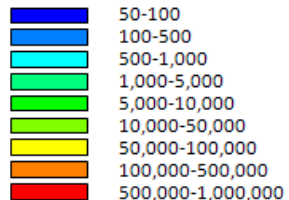
LEGEND

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)

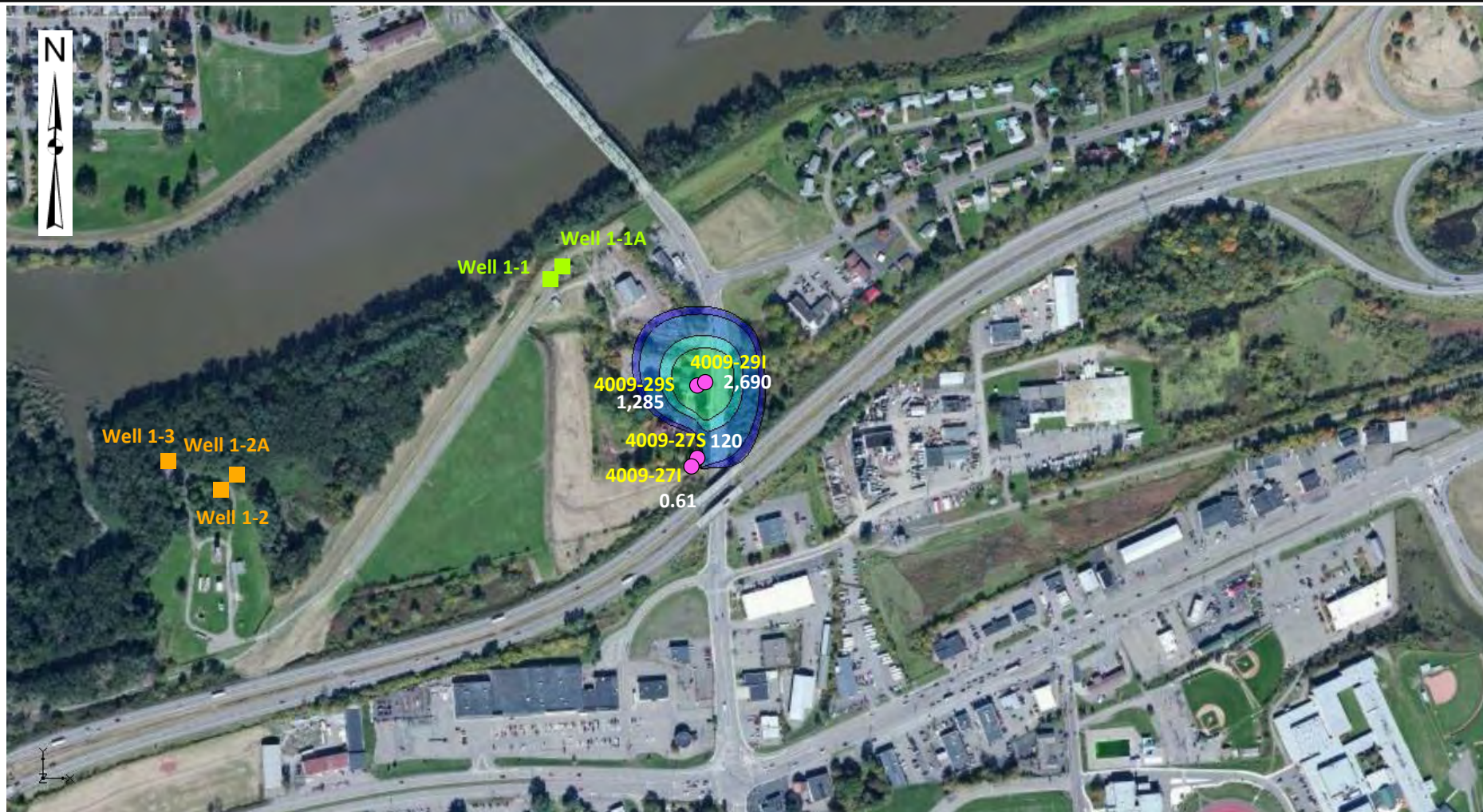


0 350 700

APPROXIMATE SCALE IN FEET

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

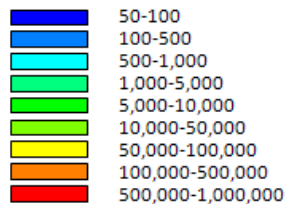
Total VOC Concentrations
(Shallow Wells)
November 4, 2015



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)



0 350 700
APPROXIMATE SCALE IN FEET

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

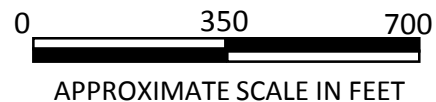
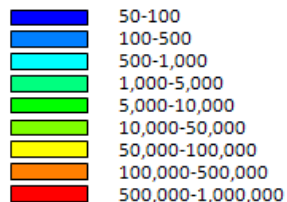
Total VOC Concentrations
(Intermediate Wells)
November 4, 2015



LEGEND

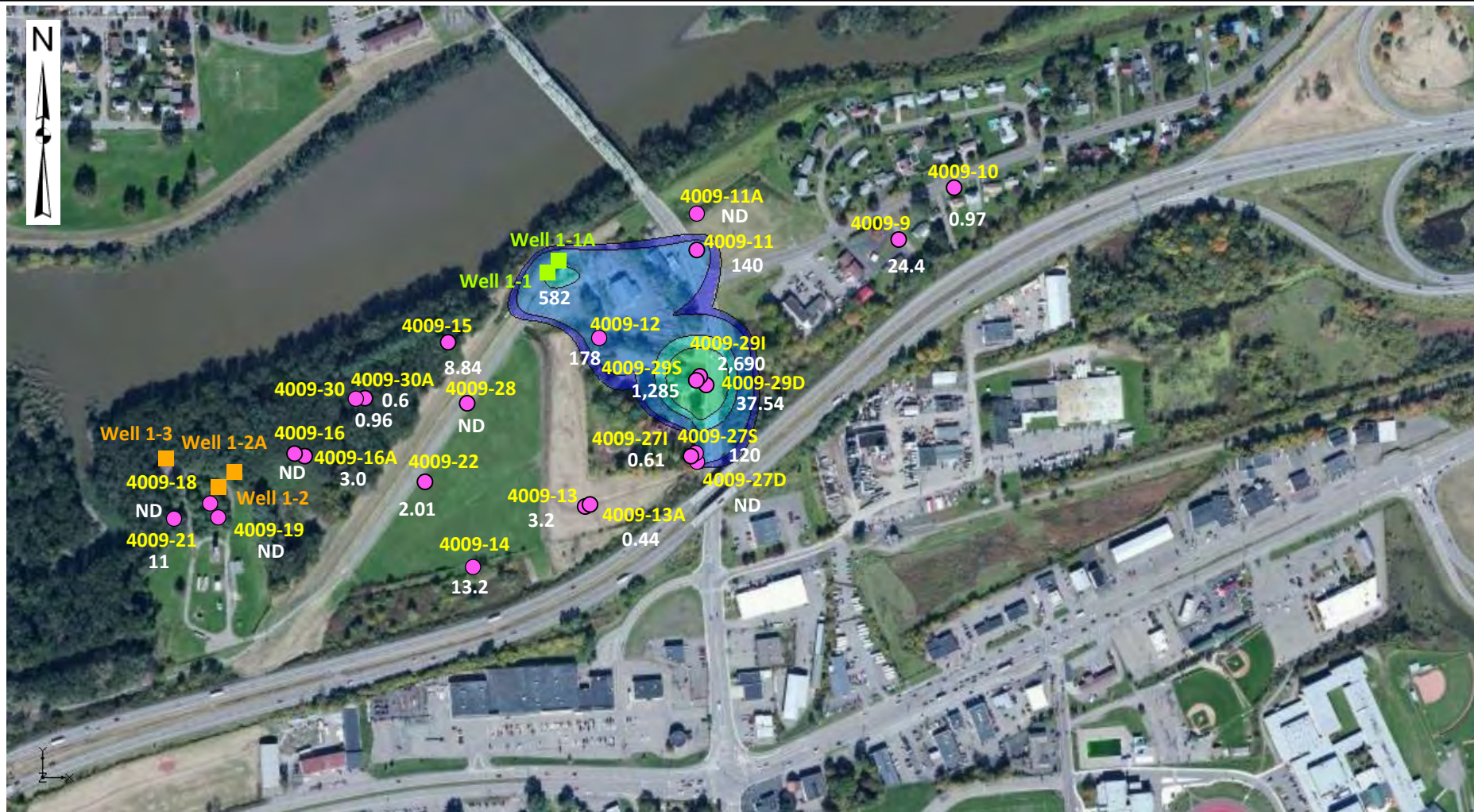
- Well 1-3**
■ WATER SUPPLY WELL & IDENTIFIER
- 4009-15**
● MONITORING WELL & IDENTIFIER
- 1.1**
Total VOC Concentration(ug/L);
“ND” indicates no detection
- Well 1-1**
■ EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



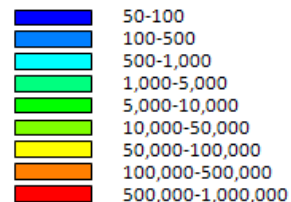
Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Total VOC Concentrations
(Deep Wells)
November 4, 2015



LEGEND

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
(All Wells)
November 4, 2015



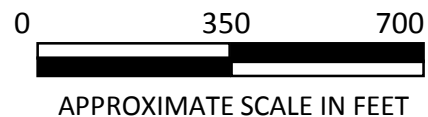
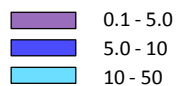
LEGEND

Well 1-3
WATER SUPPLY WELL &
IDENTIFIER

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

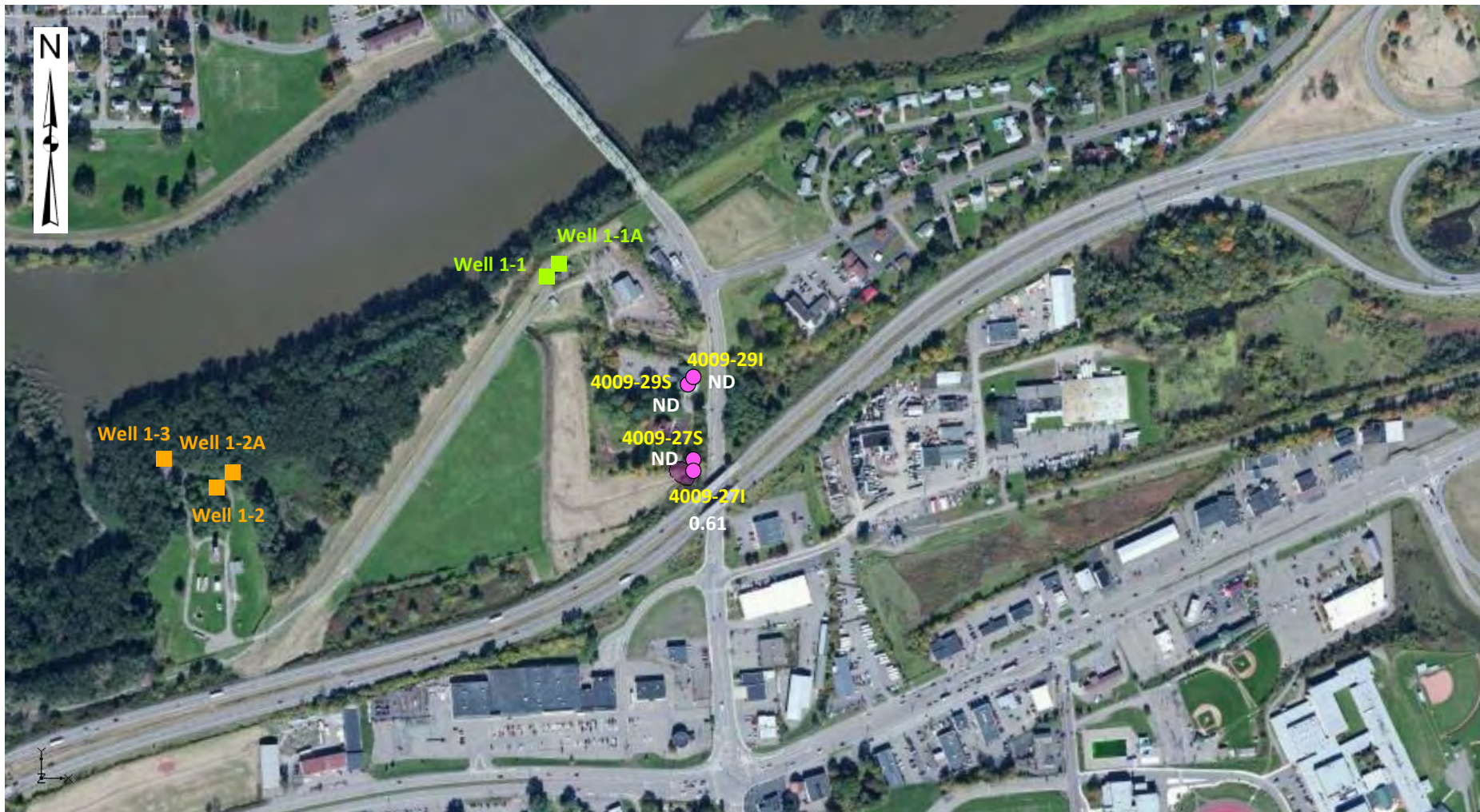
Well 1-1
EXTRACTION WELL &
IDENTIFIER

Concentration of Benzene (ug/l)



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

**Benzene Concentrations
(Shallow Wells)
November 4, 2015**



LEGEND

Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-12A MONITORING WELL & IDENTIFIER
Benzene Concentration(ug/L);
"ND" indicates no detection

Well 1-1 EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

0.1 - 5.0
5.0 - 10
10 - 50

0 350 700
APPROXIMATE SCALE IN FEET

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

**Benzene Concentrations
(Intermediate Wells)
November 4, 2015**

ARCADIS | **2-10**

Figure



LEGEND

- Well 1-3** (orange square) WATER SUPPLY WELL & IDENTIFIER
- 4009-15** (pink circle) MONITORING WELL & IDENTIFIER
 1.1 Benzene Concentration(ug/L);
 "ND" indicates no detection
- Well 1-1** (green square) EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- (purple) 0.1 - 5.0
 (blue) 5.0 - 10
 (cyan) 10 - 50 +

0 350 700
 APPROXIMATE SCALE IN FEET

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

**Benzene Concentrations
 (Deep Wells)
 November 4, 2015**



LEGEND

- Well 1-3** WATER SUPPLY WELL & IDENTIFIER
- 4009-7** MONITORING WELL & IDENTIFIER
- 55.7 Benzene Concentration(ug/L); "ND" indicates no detection
- Well 1-1** EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- 0.1 - 5.0
- 5.0 - 10
- 10 - 50 +

0 350 700

APPROXIMATE SCALE IN FEET

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

Benzene Concentrations
(All Wells)
November 4, 2015

APPENDIX A

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

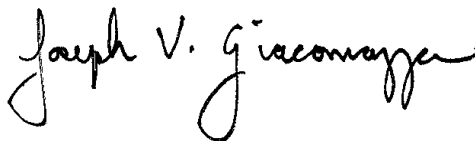


ANALYTICAL REPORT

Job Number: 480-89018-1

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
10/23/2015 1:28 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
10/23/2015

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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Job Narrative
480-89018-1

Receipt

The samples were received on 10/14/2015 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

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

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-89018-1	WELL 1-2A	Water	10/12/2015 0900	10/14/2015 0200
480-89018-2	WELL 1-3	Water	10/12/2015 0905	10/14/2015 0200
480-89018-3	TRIP BLANK	Water	10/12/2015 0000	10/14/2015 0200

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

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

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-89018-1

Date Sampled: 10/12/2015 0900

Client Matrix: Water

Date Received: 10/14/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-270230

Instrument ID: HP5973N

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: N3208.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 10/22/2015 0212

Final Weight/Volume: 5 mL

Prep Date: 10/22/2015 0212

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-89018-1

Client Matrix: Water

Date Sampled: 10/12/2015 0900

Date Received: 10/14/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-270230	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3208.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/22/2015 0212			Final Weight/Volume:	5 mL
Prep Date:	10/22/2015 0212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	113		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-89018-2

Date Sampled: 10/12/2015 0905

Client Matrix: Water

Date Received: 10/14/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-270230

Instrument ID: HP5973N

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: N3209.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 10/22/2015 0238

Final Weight/Volume: 5 mL

Prep Date: 10/22/2015 0238

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-89018-2

Client Matrix: Water

Date Sampled: 10/12/2015 0905

Date Received: 10/14/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-270230	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3209.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/22/2015 0238			Final Weight/Volume:	5 mL
Prep Date:	10/22/2015 0238				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	112		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-89018-3

Date Sampled: 10/12/2015 0000

Client Matrix: Water

Date Received: 10/14/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-270230

Instrument ID: HP5973N

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: N3210.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 10/22/2015 0304

Final Weight/Volume: 5 mL

Prep Date: 10/22/2015 0304

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-89018-3

Client Matrix: Water

Date Sampled: 10/12/2015 0000

Date Received: 10/14/2015 0200

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-270230	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3210.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/22/2015 0304			Final Weight/Volume:	5 mL
Prep Date:	10/22/2015 0304				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	88		73 - 120
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-89018-1	WELL 1-2A	113	110	97	90
480-89018-2	WELL 1-3	112	111	97	90
480-89018-3	TRIP BLANK	110	111	95	88
MB 480-270230/6		112	112	95	86
LCS 480-270230/4		104	104	99	98

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Method Blank - Batch: 480-270230

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-270230/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/22/2015 0042
Prep Date: 10/22/2015 0042
Leach Date: N/A

Analysis Batch: 480-270230
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973N
Lab File ID: N3205.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

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

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Method Blank - Batch: 480-270230

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-270230/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/22/2015 0042
Prep Date: 10/22/2015 0042
Leach Date: N/A

Analysis Batch: 480-270230
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973N
Lab File ID: N3205.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	66 - 137
4-Bromofluorobenzene (Surr)	86	73 - 120
Dibromofluoromethane (Surr)	112	60 - 140
Toluene-d8 (Surr)	95	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Lab Control Sample - Batch: 480-270230

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-270230/4	Analysis Batch:	480-270230	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3203.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/21/2015 2348	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/21/2015 2348				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.6	95	71 - 129	
1,1-Dichloroethene	25.0	23.2	93	58 - 121	
1,2,4-Trimethylbenzene	25.0	24.0	96	76 - 121	
1,2-Dichlorobenzene	25.0	23.5	94	80 - 124	
1,2-Dichloroethane	25.0	23.9	96	75 - 127	
1,3,5-Trimethylbenzene	25.0	24.4	98	77 - 121	
Benzene	25.0	23.1	92	71 - 124	
Chlorobenzene	25.0	23.3	93	72 - 120	
cis-1,2-Dichloroethene	25.0	22.9	92	74 - 124	
Ethylbenzene	25.0	23.8	95	77 - 123	
Methyl tert-butyl ether	25.0	23.2	93	64 - 127	
Tetrachloroethene	25.0	24.0	96	74 - 122	
Toluene	25.0	24.8	99	80 - 122	
trans-1,2-Dichloroethene	25.0	23.6	95	73 - 127	
Trichloroethene	25.0	23.6	94	74 - 123	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		
4-Bromofluorobenzene (Surr)	98		73 - 120		
Dibromofluoromethane (Surr)	104		60 - 140		
Toluene-d8 (Surr)	99		71 - 126		

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-270230					
LCS 480-270230/4	Lab Control Sample	T	Water	8260C	
MB 480-270230/6	Method Blank	T	Water	8260C	
480-89018-1	WELL 1-2A	T	Water	8260C	
480-89018-2	WELL 1-3	T	Water	8260C	
480-89018-3	TRIP BLANK	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Laboratory Chronicle

Lab ID: 480-89018-1

Client ID: WELL 1-2A

Sample Date/Time: 10/12/2015 09:00 Received Date/Time: 10/14/2015 02:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-89018-A-1		480-270230		10/22/2015 02:12	1	TAL BUF	GTG
A:8260C	480-89018-A-1		480-270230		10/22/2015 02:12	1	TAL BUF	GTG

Lab ID: 480-89018-2

Client ID: WELL 1-3

Sample Date/Time: 10/12/2015 09:05 Received Date/Time: 10/14/2015 02:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-89018-A-2		480-270230		10/22/2015 02:38	1	TAL BUF	GTG
A:8260C	480-89018-A-2		480-270230		10/22/2015 02:38	1	TAL BUF	GTG

Lab ID: 480-89018-3

Client ID: TRIP BLANK

Sample Date/Time: 10/12/2015 00:00 Received Date/Time: 10/14/2015 02:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-89018-A-3		480-270230		10/22/2015 03:04	1	TAL BUF	GTG
A:8260C	480-89018-A-3		480-270230		10/22/2015 03:04	1	TAL BUF	GTG

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-270230/6		480-270230		10/22/2015 00:42	1	TAL BUF	GTG
A:8260C	MB 480-270230/6		480-270230		10/22/2015 00:42	1	TAL BUF	GTG

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-270230/4		480-270230		10/21/2015 23:48	1	TAL BUF	GTG
A:8260C	LCS 480-270230/4		480-270230		10/21/2015 23:48	1	TAL BUF	GTG

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WELL 1-2A	480-89018-1	113	110	97	90
WELL 1-3	480-89018-2	112	111	97	90
TRIP BLANK	480-89018-3	110	111	95	88
	MB 480-270230/6	112	112	95	86
	LCS 480-270230/4	104	104	99	98

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

QC LIMITS
60-140
66-137
71-126
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N3203.D
 Lab ID: LCS 480-270230/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	23.6	95	71-129	
1,1-Dichloroethene	25.0	23.2	93	58-121	
1,2,4-Trimethylbenzene	25.0	24.0	96	76-121	
1,2-Dichlorobenzene	25.0	23.5	94	80-124	
1,2-Dichloroethane	25.0	23.9	96	75-127	
1,3,5-Trimethylbenzene	25.0	24.4	98	77-121	
Benzene	25.0	23.1	92	71-124	
Chlorobenzene	25.0	23.3	93	72-120	
cis-1,2-Dichloroethene	25.0	22.9	92	74-124	
Ethylbenzene	25.0	23.8	95	77-123	
Methyl tert-butyl ether	25.0	23.2	93	64-127	
Tetrachloroethene	25.0	24.0	96	74-122	
Toluene	25.0	24.8	99	80-122	
trans-1,2-Dichloroethene	25.0	23.6	95	73-127	
Trichloroethene	25.0	23.6	94	74-123	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
SDG No.: _____
Lab File ID: N3205.D Lab Sample ID: MB 480-270230/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973N Date Analyzed: 10/22/2015 00:42
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-270230/4	N3203.D	10/21/2015 23:48
WELL 1-2A	480-89018-1	N3208.D	10/22/2015 02:12
WELL 1-3	480-89018-2	N3209.D	10/22/2015 02:38
TRIP BLANK	480-89018-3	N3210.D	10/22/2015 03:04

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

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Lab File ID: N2291.D BFB Injection Date: 10/02/2015
 Instrument ID: HP5973N BFB Injection Time: 14:56
 Analysis Batch No.: 266700

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.7
75	30.0 - 60.0 % of mass 95	47.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	84.2
175	5.0 - 9.0 % of mass 174	7.1 (8.4)1
176	95.0 - 101.0 % of mass 174	82.6 (98.2)1
177	5.0 - 9.0 % of mass 176	5.7 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-266700/6	N2293.D	10/02/2015	15:48
	IC 480-266700/7	N2294.D	10/02/2015	16:15
	IC 480-266700/8	N2295.D	10/02/2015	16:42
	IC 480-266700/9	N2296.D	10/02/2015	17:08
	IC 480-266700/10	N2297.D	10/02/2015	17:35
	ICIS 480-266700/11	N2298.D	10/02/2015	18:02
	IC 480-266700/12	N2299.D	10/02/2015	18:29
	IC 480-266700/13	N2300.D	10/02/2015	18:55
	IC 480-266700/18	N2305.D	10/02/2015	21:08
	IC 480-266700/19	N2306.D	10/02/2015	21:35
	IC 480-266700/20	N2307.D	10/02/2015	22:02
	IC 480-266700/21	N2308.D	10/02/2015	22:28
	IC 480-266700/22	N2309.D	10/02/2015	22:55
	IC 480-266700/23	N2310.D	10/02/2015	23:22
	IC 480-266700/24	N2311.D	10/02/2015	23:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Lab File ID: N3200.D BFB Injection Date: 10/21/2015
 Instrument ID: HP5973N BFB Injection Time: 22:24
 Analysis Batch No.: 270230

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.6
75	30.0 - 60.0 % of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.7 (0.7) 1
174	50.0 - 120.00 % of mass 95	89.4
175	5.0 - 9.0 % of mass 174	7.6 (8.5) 1
176	95.0 - 101.0 % of mass 174	87.6 (98.0) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-270230/2	N3201.D	10/21/2015	22:55
	CCV 480-270230/3	N3202.D	10/21/2015	23:22
	LCS 480-270230/4	N3203.D	10/21/2015	23:48
	MB 480-270230/6	N3205.D	10/22/2015	00:42
WELL 1-2A	480-89018-1	N3208.D	10/22/2015	02:12
WELL 1-3	480-89018-2	N3209.D	10/22/2015	02:38
TRIP BLANK	480-89018-3	N3210.D	10/22/2015	03:04

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

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Sample No.: ICIS 480-266700/11 Date Analyzed: 10/02/2015 18:02
 Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): N2298.D Heated Purge: (Y/N) N
 Calibration ID: 25097

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	517493	5.60	380276	8.60	200287	10.97
UPPER LIMIT	1034986	6.10	760552	9.10	400574	11.47
LOWER LIMIT	258747	5.10	190138	8.10	100144	10.47
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-270230/2		395417	5.60	298654	8.60	156679
						10.97

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Sample No.: CCVIS 480-270230/2 Date Analyzed: 10/21/2015 22:55
 Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): N3201.D Heated Purge: (Y/N) N
 Calibration ID: 25099

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		395417	5.60	298654	8.60	156679	10.97
UPPER LIMIT		790834	6.10	597308	9.10	313358	11.47
LOWER LIMIT		197709	5.10	149327	8.10	78340	10.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-270230/3		390230	5.60	293605	8.60	153059	10.97
LCS 480-270230/4		407132	5.60	302247	8.60	160702	10.97
MB 480-270230/6		344761	5.60	265344	8.60	123796	10.97
480-89018-1	WELL 1-2A	353693	5.60	263268	8.60	127255	10.97
480-89018-2	WELL 1-3	343553	5.60	255637	8.60	119195	10.97
480-89018-3	TRIP BLANK	342014	5.60	257652	8.60	125537	10.97

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-89018-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL 1-2A</u>	Lab Sample ID: <u>480-89018-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>N3208.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>10/12/2015 09:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>10/22/2015 02:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>270230</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.: 480-89018-1
 SDG No.: _____
 Client Sample ID: WELL 1-2A Lab Sample ID: 480-89018-1
 Matrix: Water Lab File ID: N3208.D
 Analysis Method: 8260C Date Collected: 10/12/2015 09:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/22/2015 02:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 270230 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)	110		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3208.D
 Lims ID: 480-89018-A-1 Lab Sample ID: 480-89018-1
 Client ID: WELL 1-2A
 Sample Type: Client
 Inject. Date: 22-Oct-2015 02:12:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-89018-A-1
 Misc. Info.: 480-0047536-010
 Operator ID: GF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: goliszekg

Date: 22-Oct-2015 15:06:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.599	-0.001	98	353693	25.0	
* 2 Chlorobenzene-d5	117	8.604	8.598	0.006	88	263268	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.971	-0.001	96	127255	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	5.003	-0.001	93	92661	28.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.306	5.313	-0.007	0	125241	27.6	
\$ 6 Toluene-d8 (Surr)	98	7.119	7.114	0.005	93	289547	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	86901	22.4	
11 Dichlorodifluoromethane	85		1.370				ND	
13 Chloromethane	50		1.534				ND	
14 Vinyl chloride	62		1.650				ND	
15 Bromomethane	94		1.966				ND	
16 Chloroethane	64		2.070				ND	
18 Trichlorofluoromethane	101		2.313				ND	
22 1,1-Dichloroethene	96		2.818				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.830				ND	
23 Acetone	43		2.915				ND	
25 Carbon disulfide	76		3.019				ND	
28 Methyl acetate	43		3.226				ND	
30 Methylene Chloride	84		3.323				ND	
32 Methyl tert-butyl ether	73		3.554				ND	
33 trans-1,2-Dichloroethene	96		3.566				ND	
36 1,1-Dichloroethane	63		3.980				ND	
43 cis-1,2-Dichloroethene	96		4.534				ND	
44 2-Butanone (MEK)	43		4.558				ND	
50 Chloroform	83		4.844				ND	
51 1,1,1-Trichloroethane	97		4.978				ND	
52 Cyclohexane	56		5.002				ND	
53 Carbon tetrachloride	117		5.124				ND	
55 Benzene	78		5.330				ND	
57 1,2-Dichloroethane	62		5.379				ND	
60 Trichloroethene	95		5.945				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		6.085				ND	
63 1,2-Dichloropropane	63		6.170				ND	
67 Dichlorobromomethane	83		6.456				ND	
71 cis-1,3-Dichloropropene	75		6.876				ND	
72 4-Methyl-2-pentanone (MIBK)	58		7.016				ND	
73 Toluene	92		7.180				ND	
75 trans-1,3-Dichloropropene	75		7.441				ND	
78 1,1,2-Trichloroethane	83		7.630				ND	
79 Tetrachloroethene	166		7.721				ND	
82 2-Hexanone	43		7.861				ND	
83 Chlorodibromomethane	129		8.038				ND	
84 Ethylene Dibromide	107		8.141				ND	
85 Chlorobenzene	112		8.628				ND	
88 Ethylbenzene	91		8.725				ND	
90 m-Xylene & p-Xylene	106		8.847				ND	
91 o-Xylene	106		9.273				ND	
92 Styrene	104		9.303				ND	
93 Bromoform	173		9.534				ND	
95 Isopropylbenzene	105		9.656				ND	
98 1,1,2,2-Tetrachloroethane	83		10.027				ND	
104 1,3,5-Trimethylbenzene	105		10.252				ND	
108 1,2,4-Trimethylbenzene	105		10.623				ND	
110 1,3-Dichlorobenzene	146		10.909				ND	
113 1,4-Dichlorobenzene	146		10.994				ND	
114 1,2,3-Trimethylbenzene	105		11.025				ND	
116 1,2-Dichlorobenzene	146		11.341				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.059				ND	
119 1,2,4-Trichlorobenzene	180		12.746				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

N_8260_Surr_00148

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3208.D

Injection Date: 22-Oct-2015 02:12:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: 480-89018-A-1

Lab Sample ID: 480-89018-1

Worklist Smp#: 10

Client ID: WELL 1-2A

Purge Vol: 5.000 mL

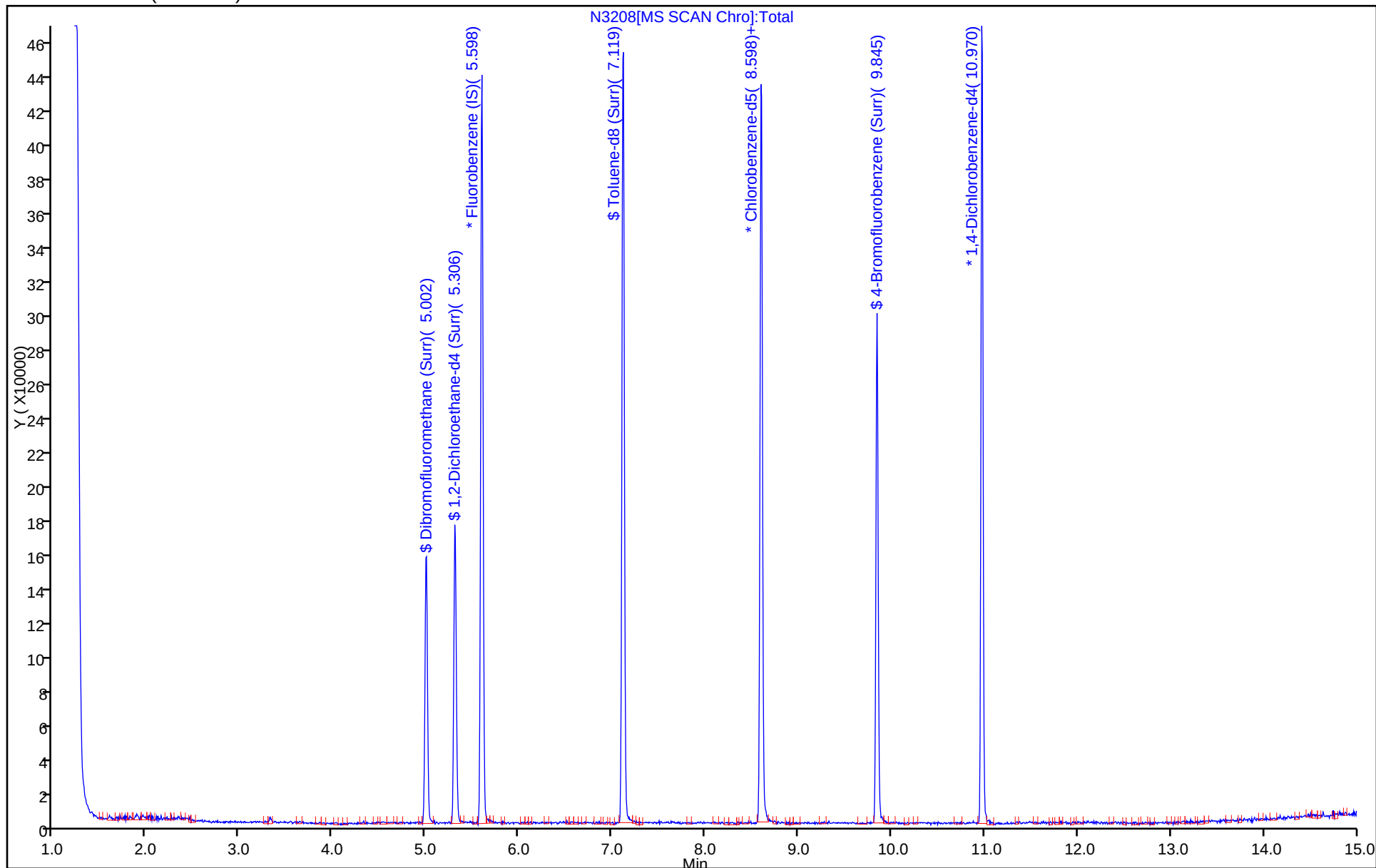
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: N-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>480-89018-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL 1-3</u>	Lab Sample ID: <u>480-89018-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>N3209.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>10/12/2015 09:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>10/22/2015 02:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>270230</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.: 480-89018-1
 SDG No.: _____
 Client Sample ID: WELL 1-3 Lab Sample ID: 480-89018-2
 Matrix: Water Lab File ID: N3209.D
 Analysis Method: 8260C Date Collected: 10/12/2015 09:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/22/2015 02:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 270230 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)	111		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3209.D
 Lims ID: 480-89018-A-2 Lab Sample ID: 480-89018-2
 Client ID: WELL 1-3
 Sample Type: Client
 Inject. Date: 22-Oct-2015 02:38:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-89018-A-2
 Misc. Info.: 480-0047536-011
 Operator ID: GF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: goliszekg

Date: 22-Oct-2015 15:07:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.599	-0.001	98	343553	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	87	255637	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.971	-0.001	96	119195	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.996	5.003	-0.007	93	89245	28.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.306	5.313	-0.007	0	121717	27.6	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.114	-0.001	94	281038	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	84262	22.4	
11 Dichlorodifluoromethane	85		1.370				ND	
13 Chloromethane	50		1.534				ND	
14 Vinyl chloride	62		1.650				ND	
15 Bromomethane	94		1.966				ND	
16 Chloroethane	64		2.070				ND	
18 Trichlorofluoromethane	101		2.313				ND	
22 1,1-Dichloroethene	96		2.818				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.830				ND	
23 Acetone	43		2.915				ND	
25 Carbon disulfide	76		3.019				ND	
28 Methyl acetate	43		3.226				ND	
30 Methylene Chloride	84		3.323				ND	
32 Methyl tert-butyl ether	73		3.554				ND	
33 trans-1,2-Dichloroethene	96		3.566				ND	
36 1,1-Dichloroethane	63		3.980				ND	
43 cis-1,2-Dichloroethene	96		4.534				ND	
44 2-Butanone (MEK)	43		4.558				ND	
50 Chloroform	83		4.844				ND	
51 1,1,1-Trichloroethane	97		4.978				ND	
52 Cyclohexane	56		5.002				ND	
53 Carbon tetrachloride	117		5.124				ND	
55 Benzene	78		5.330				ND	
57 1,2-Dichloroethane	62		5.379				ND	
60 Trichloroethene	95		5.945				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		6.085				ND	
63 1,2-Dichloropropane	63		6.170				ND	
67 Dichlorobromomethane	83		6.456				ND	
71 cis-1,3-Dichloropropene	75		6.876				ND	
72 4-Methyl-2-pentanone (MIBK)	58		7.016				ND	
73 Toluene	92		7.180				ND	
75 trans-1,3-Dichloropropene	75		7.441				ND	
78 1,1,2-Trichloroethane	83		7.630				ND	
79 Tetrachloroethene	166		7.721				ND	
82 2-Hexanone	43		7.861				ND	
83 Chlorodibromomethane	129		8.038				ND	
84 Ethylene Dibromide	107		8.141				ND	
85 Chlorobenzene	112		8.628				ND	
88 Ethylbenzene	91		8.725				ND	
90 m-Xylene & p-Xylene	106		8.847				ND	
91 o-Xylene	106		9.273				ND	
92 Styrene	104		9.303				ND	
93 Bromoform	173		9.534				ND	
95 Isopropylbenzene	105		9.656				ND	
98 1,1,2,2-Tetrachloroethane	83		10.027				ND	
104 1,3,5-Trimethylbenzene	105		10.252				ND	
108 1,2,4-Trimethylbenzene	105		10.623				ND	
110 1,3-Dichlorobenzene	146		10.909				ND	
113 1,4-Dichlorobenzene	146		10.994				ND	
114 1,2,3-Trimethylbenzene	105		11.025				ND	
116 1,2-Dichlorobenzene	146		11.341				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.059				ND	
119 1,2,4-Trichlorobenzene	180		12.746				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

N_8260_Surr_00148

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3209.D

Injection Date: 22-Oct-2015 02:38:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: 480-89018-A-2

Lab Sample ID: 480-89018-2

Worklist Smp#: 11

Client ID: WELL 1-3

Purge Vol: 5.000 mL

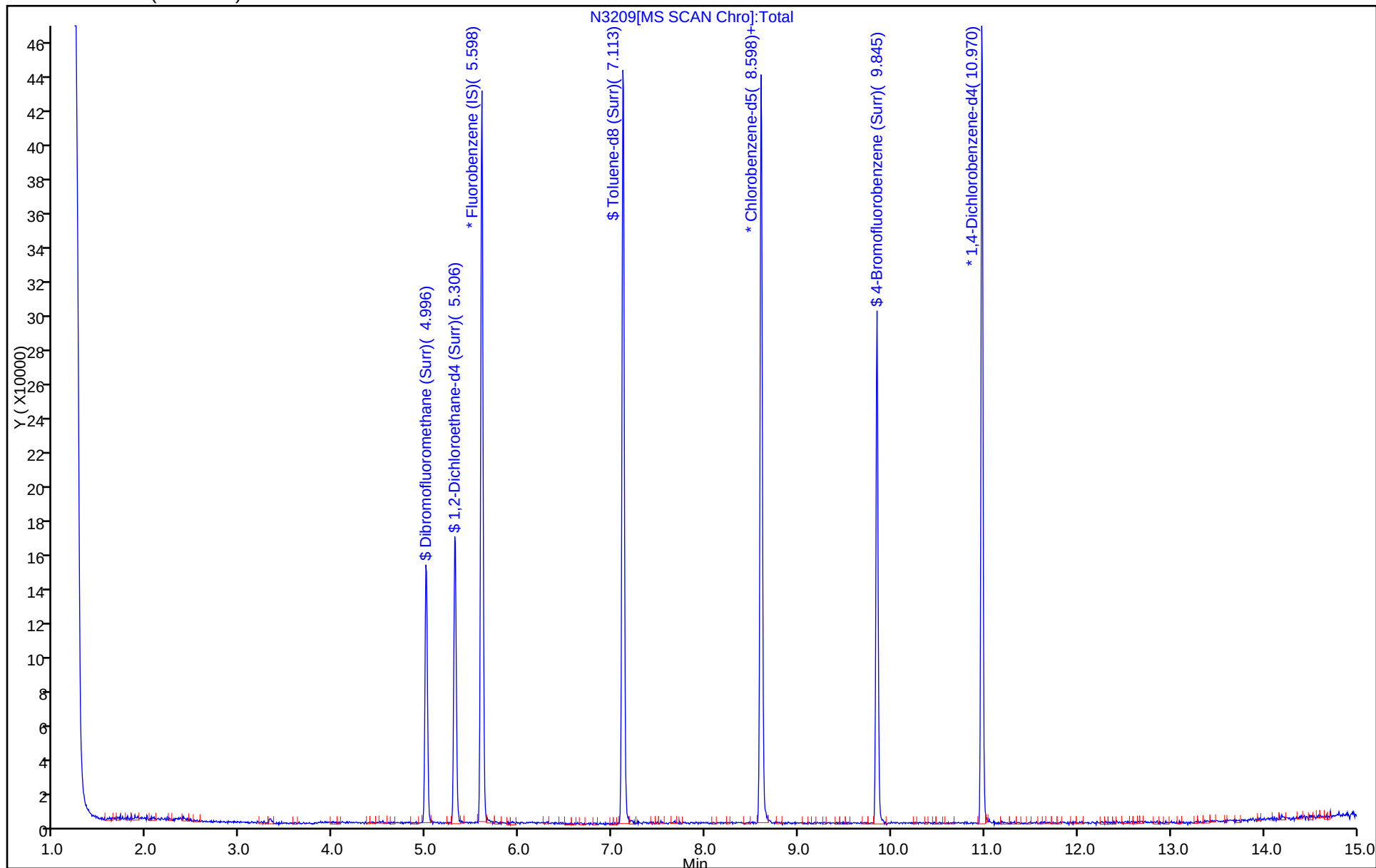
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: N-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>480-89018-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-89018-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>N3210.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>10/12/2015 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>10/22/2015 03:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>270230</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.: 480-89018-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-89018-3
 Matrix: Water Lab File ID: N3210.D
 Analysis Method: 8260C Date Collected: 10/12/2015 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/22/2015 03:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 270230 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)	111		66-137
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3210.D
 Lims ID: 480-89018-A-3 Lab Sample ID: 480-89018-3
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 22-Oct-2015 03:04:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-89018-A-3
 Misc. Info.: 480-0047536-012
 Operator ID: GF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: goliszekg

Date: 22-Oct-2015 15:07:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	342014	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	87	257652	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.971	-0.001	96	125537	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.996	5.003	-0.007	92	86867	27.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.313	0.000	0	121489	27.7	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.114	-0.001	94	276809	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	83909	22.1	
11 Dichlorodifluoromethane	85		1.370				ND	
13 Chloromethane	50		1.534				ND	
14 Vinyl chloride	62		1.650				ND	
15 Bromomethane	94		1.966				ND	
16 Chloroethane	64		2.070				ND	
18 Trichlorofluoromethane	101		2.313				ND	
22 1,1-Dichloroethene	96		2.818				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.830				ND	
23 Acetone	43		2.915				ND	
25 Carbon disulfide	76		3.019				ND	
28 Methyl acetate	43		3.226				ND	
30 Methylene Chloride	84	3.329	3.323	0.006	93	4925	0.1575	
32 Methyl tert-butyl ether	73		3.554				ND	
33 trans-1,2-Dichloroethene	96		3.566				ND	
36 1,1-Dichloroethane	63		3.980				ND	
43 cis-1,2-Dichloroethene	96		4.534				ND	
44 2-Butanone (MEK)	43		4.558				ND	
50 Chloroform	83		4.844				ND	
51 1,1,1-Trichloroethane	97		4.978				ND	
52 Cyclohexane	56		5.002				ND	
53 Carbon tetrachloride	117		5.124				ND	
55 Benzene	78		5.330				ND	
57 1,2-Dichloroethane	62		5.379				ND	
60 Trichloroethene	95		5.945				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		6.085				ND	
63 1,2-Dichloropropane	63		6.170				ND	
67 Dichlorobromomethane	83		6.456				ND	
71 cis-1,3-Dichloropropene	75		6.876				ND	
72 4-Methyl-2-pentanone (MIBK)	58		7.016				ND	
73 Toluene	92		7.180				ND	
75 trans-1,3-Dichloropropene	75		7.441				ND	
78 1,1,2-Trichloroethane	83		7.630				ND	
79 Tetrachloroethene	166		7.721				ND	
82 2-Hexanone	43		7.861				ND	
83 Chlorodibromomethane	129		8.038				ND	
84 Ethylene Dibromide	107		8.141				ND	
85 Chlorobenzene	112		8.628				ND	
88 Ethylbenzene	91		8.725				ND	
90 m-Xylene & p-Xylene	106		8.847				ND	
91 o-Xylene	106		9.273				ND	
92 Styrene	104		9.303				ND	
93 Bromoform	173		9.534				ND	
95 Isopropylbenzene	105		9.656				ND	
98 1,1,2,2-Tetrachloroethane	83		10.027				ND	
104 1,3,5-Trimethylbenzene	105		10.252				ND	
108 1,2,4-Trimethylbenzene	105		10.623				ND	
110 1,3-Dichlorobenzene	146		10.909				ND	
113 1,4-Dichlorobenzene	146		10.994				ND	
114 1,2,3-Trimethylbenzene	105		11.025				ND	
116 1,2-Dichlorobenzene	146		11.341				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.059				ND	
119 1,2,4-Trichlorobenzene	180		12.746				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

N_8260_Surr_00148

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3210.D

Injection Date: 22-Oct-2015 03:04:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: 480-89018-A-3

Lab Sample ID: 480-89018-3

Worklist Smp#: 12

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

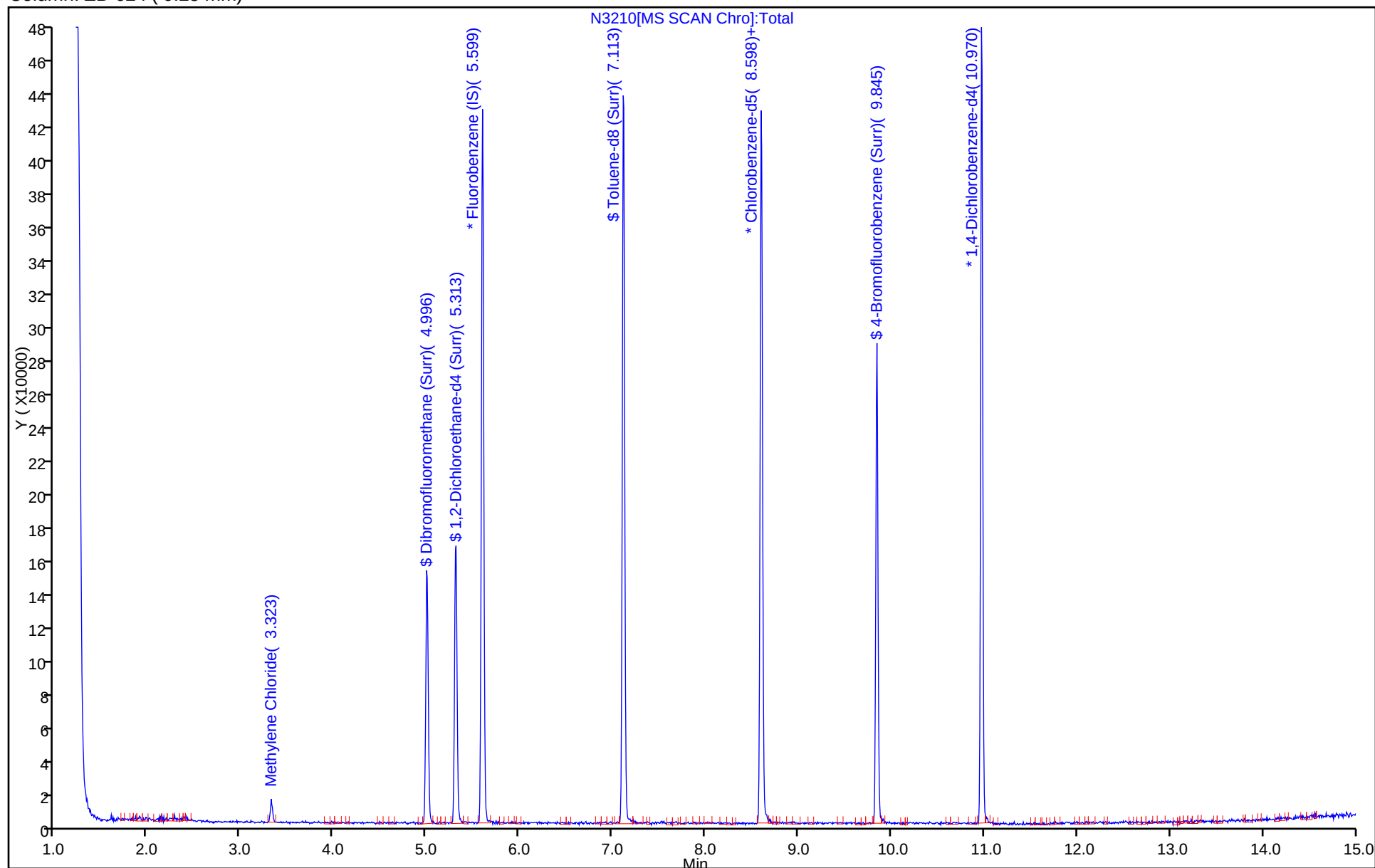
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: N-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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-266700/6	N2293.D
Level 2	IC 480-266700/7	N2294.D
Level 3	IC 480-266700/8	N2295.D
Level 4	IC 480-266700/9	N2296.D
Level 5	IC 480-266700/10	N2297.D
Level 6	ICIS 480-266700/11	N2298.D
Level 7	IC 480-266700/12	N2299.D
Level 8	IC 480-266700/13	N2300.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	0.2955 0.3071	0.3654 0.2978	0.3408 0.2959	0.3506	0.3288	Ave		0.3228			0.1000	8.5		20.0			
Chloromethane	0.4915 0.3606	0.4655 0.3430	0.4429 0.3319	0.4106	0.3959	Ave		0.4052			0.1000	14.4		20.0			
Vinyl chloride	0.3321 0.2522	0.3182 0.2498	0.3266 0.2447	0.2916	0.2634	Ave		0.2848			0.1000	12.9		20.0			
Butadiene	0.3128 0.2704	0.3317 0.2594	0.2942 0.2657	0.3138	0.2878	Ave		0.2920				8.9		20.0			
Bromomethane	0.1732 0.1248	0.1633 0.1263	0.1447 0.1289	0.1508	0.1337	Ave		0.1432			0.1000	12.6		20.0			
Chloroethane	++++ 0.1270	0.1348 0.1278	0.1425 0.1262	0.1487	0.1402	Ave		0.1353			0.1000	6.5		20.0			
Dichlorofluoromethane	0.4996 0.3551	0.4918 0.3365	0.4164 0.3421	0.3822	0.3994	Ave		0.4029				15.8		20.0			
Trichlorofluoromethane	++++ 0.3609	0.3957 0.3499	0.3756 0.3592	0.3874	0.3686	Ave		0.3711			0.1000	4.4		20.0			
Ethyl ether	0.3017 0.2646	0.3075 0.2678	0.2916 0.2743	0.2827	0.2897	Ave		0.2850				5.4		20.0			
Acrolein	0.0328 0.0346	0.0396 0.0357	0.0356 0.0359	0.0323	0.0359	Ave		0.0353				6.3		20.0			
1,1-Dichloroethene	0.2513 0.2243	0.2886 0.2167	0.2485 0.2230	0.2483	0.2385	Ave		0.2424			0.1000	9.4		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.2402	0.3090 0.2233	0.2774 0.2298	0.2734	0.2556	Ave		0.2584			0.1000	11.8		20.0			
Acetone	0.1557 0.1139	0.1574 0.1133	0.1336 0.1099	0.1097	0.1202	Ave		0.1267			0.1000	15.8		20.0			
Iodomethane	0.4377 0.3865	0.4819 0.3824	0.4404 0.3930	0.4160	0.4184	Ave		0.4195				8.0		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.: 480-89018-1 Analy Batch No.: 266700
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	0.7343 0.6828	0.7823 0.6747	0.7410 0.6855	0.7284	0.6992	Ave		0.7160			0.1000	5.2		20.0			
Allyl chloride	0.6343 0.5217	0.7311 0.4973	0.6002 0.5065	0.5469	0.5330	Ave		0.5714				14.0		20.0			
Methyl acetate	0.3962 0.3307	0.4160 0.3134	0.3507 0.2962	0.3187	0.3480	Ave		0.3462			0.1000	11.9		20.0			
Methylene Chloride	++++ 0.2549	0.5552 0.2350	0.3761 0.2399	0.3116	0.2830	Lin1	0.3228	0.2360			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.0286 0.0314	0.0412 0.0340	0.0346 0.0330	0.0241	0.0339	Ave		0.0326				15.2		20.0			
Methyl tert-butyl ether	0.8485 0.7973	0.9242 0.7836	0.8190 0.7936	0.8022	0.8488	Ave		0.8272			0.1000	5.6		20.0			
trans-1,2-Dichloroethene	0.3121 0.2458	0.2902 0.2310	0.2943 0.2371	0.2705	0.2667	Ave		0.2684			0.1000	10.9		20.0			
Acrylonitrile	0.1689 0.1406	0.1650 0.1362	0.1539 0.1307	0.1384	0.1535	Ave		0.1484				9.4		20.0			
Hexane	0.5030 0.4070	0.5319 0.4054	0.4829 0.3988	0.4403	0.4225	Ave		0.4490				11.3		20.0			
1,1-Dichloroethane	0.5138 0.4658	0.5803 0.4382	0.5129 0.4462	0.5084	0.4887	Ave		0.4943			0.2000	9.2		20.0			
Vinyl acetate	0.6133 0.6013	0.6122 0.5926	0.5997 0.5833	0.5762	0.6003	Ave		0.5974				2.2		20.0			
2,2-Dichloropropane	0.2019 0.2077	0.2448 0.2014	0.2464 0.1993	0.2314	0.2272	Ave		0.2200				9.0		20.0			
cis-1,2-Dichloroethene	0.3116 0.2646	0.3183 0.2536	0.3015 0.2558	0.2717	0.2797	Ave		0.2821			0.1000	9.0		20.0			
2-Butanone (MEK)	0.2001 0.1812	0.1901 0.1822	0.1859 0.1676	0.1664	0.1782	Ave		0.1815			0.1000	6.1		20.0			
Chlorobromomethane	0.1492 0.1348	0.1411 0.1380	0.1363 0.1386	0.1548	0.1429	Ave		0.1420				4.8		20.0			
Tetrahydrofuran	0.1464 0.1257	0.1367 0.1271	0.1332 0.1280	0.1202	0.1279	Ave		0.1306				6.1		20.0			
Chloroform	0.5640 0.4225	0.5057 0.4088	0.4567 0.4119	0.4663	0.4489	Ave		0.4606			0.2000	11.4		20.0			
1,1,1-Trichloroethane	0.3802 0.3519	0.3955 0.3469	0.4007 0.3504	0.3818	0.3771	Ave		0.3730			0.1000	5.6		20.0			
Cyclohexane	0.5235 0.5042	0.6163 0.4876	0.5515 0.4889	0.5466	0.5243	Ave		0.5304			0.1000	7.9		20.0			
Carbon tetrachloride	0.3695 0.3415	0.3750 0.3352	0.3600 0.3433	0.3553	0.3558	Ave		0.3544			0.1000	3.9		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
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1 Analy Batch No.: 266700
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	0.3433 0.3247	0.3589 0.3151	0.3580 0.3183	0.3482	0.3518	Ave		0.3398				5.2		20.0			
Isobutyl alcohol	++++ 0.0174	0.0166 0.0178	0.0165 0.0160	0.0157	0.0176	Ave		0.0168				4.9		20.0			
Benzene	1.1208 0.9207	1.2267 0.8916	1.0512 0.8743	1.0099	0.9995	Ave		1.0118			0.5000	11.9		20.0			
1,2-Dichloroethane	0.5306 0.4006	0.5005 0.3944	0.4594 0.3944	0.4271	0.4330	Ave		0.4425			0.1000	11.5		20.0			
n-Heptane	0.4961 0.4655	0.5896 0.4612	0.5205 0.4353	0.5346	0.5130	Ave		0.5020				9.7		20.0			
Trichloroethene	0.3052 0.2488	0.3135 0.2416	0.2722 0.2401	0.2510	0.2576	Ave		0.2662			0.2000	10.7		20.0			
Methylcyclohexane	0.3512 0.4089	0.4878 0.3951	0.4625 0.4002	0.4482	0.4403	Ave		0.4243			0.1000	10.3		20.0			
1,2-Dichloropropane	0.2317 0.2293	0.2612 0.2329	0.2374 0.2254	0.2274	0.2299	Ave		0.2344			0.1000	4.9		20.0			
Dibromomethane	0.1482 0.1466	0.1843 0.1493	0.1531 0.1486	0.1543	0.1555	Ave		0.1550			0.1000	7.9		20.0			
1,4-Dioxane	++++ 0.0036	++++ 0.0035	0.0025 0.0031	0.0026	0.0032	Ave		0.0031				14.9		20.0			
Bromodichloromethane	++++ 0.3058	0.3077 0.3019	0.2979 0.3085	0.2840	0.2919	Ave		0.2997			0.2000	3.0		20.0			
2-Chloroethyl vinyl ether	0.1308 0.1538	0.1603 0.1638	0.1285 0.1607	0.1378	0.1351	Ave		0.1464				10.1		20.0			
cis-1,3-Dichloropropene	0.3184 0.3611	0.3721 0.3673	0.3438 0.3681	0.3289	0.3395	Ave		0.3499			0.2000	5.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.1502 0.1674	0.1678 0.1661	0.1694 0.1628	0.1631	0.1728	Ave		0.1650			0.1000	4.1		20.0			
Toluene	++++ 0.8129	1.1713 0.7762	0.9477 0.7578	0.8454	0.8654	Lin1	0.4363	0.7658			0.4000				0.9990		0.9900
trans-1,3-Dichloropropene	0.3204 0.4413	0.4033 0.4420	0.3703 0.4487	0.4027	0.4049	Ave		0.4042			0.1000	10.6		20.0			
Ethyl methacrylate	0.3409 0.3976	0.4202 0.4160	0.3521 0.4090	0.3620	0.3752	Ave		0.3841				8.0		20.0			
1,1,2-Trichloroethane	0.1897 0.2203	0.2498 0.2152	0.2423 0.2156	0.2212	0.2174	Ave		0.2214			0.1000	8.2		20.0			
Tetrachloroethene	0.4283 0.3690	0.4596 0.3470	0.4167 0.3468	0.4190	0.3803	Ave		0.3959			0.2000	10.4		20.0			
1,3-Dichloropropane	0.5201 0.4885	0.5726 0.4725	0.5271 0.4615	0.4573	0.4721	Ave		0.4965				8.1		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.: 480-89018-1 Analy Batch No.: 266700
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	0.2968 0.3139	0.3250 0.3134	0.3040 0.2843	0.3116	0.3038	Ave		0.3066			0.1000	4.0		20.0			
Dibromochloromethane	0.2912 0.3107	0.3102 0.3205	0.2688 0.3324	0.2796	0.2875	Ave		0.3001			0.1000	7.2		20.0			
1,2-Dibromoethane	0.3125 0.2987	0.3077 0.3009	0.2898 0.2997	0.2856	0.2998	Ave		0.2993				2.9		20.0			
Chlorobenzene	1.1330 0.8740	1.1030 0.8434	0.9436 0.8272	0.9192	0.8955	Ave		0.9424			0.5000	12.2		20.0			
Ethylbenzene	1.5190 1.4553	1.7720 1.4007	1.6492 1.3467	1.4990	1.4816	Ave		1.5154			0.1000	9.0		20.0			
1,1,1,2-Tetrachloroethane	0.3198 0.3188	0.3174 0.3176	0.3256 0.3231	0.3313	0.3244	Ave		0.3222				1.5		20.0			
m,p-Xylene	0.5615 0.5738	0.6890 0.5807	0.6198 0.5698	0.5803	0.5931	Ave		0.5960			0.1000	7.0		20.0			
o-Xylene	0.5334 0.5845	0.6489 0.5823	0.5946 0.5695	0.5949	0.5981	Ave		0.5883			0.3000	5.5		20.0			
Styrene	0.9440 0.9405	0.9940 0.9384	0.9001 0.9169	0.9734	0.9707	Ave		0.9473			0.3000	3.3		20.0			
Bromoform	++++ 0.1758	0.1812 0.1886	0.1674 0.2008	0.1567	0.1738	Ave		0.1778			0.1000	8.1		20.0			
Isopropylbenzene	2.7998 2.8120	3.3561 2.8538	2.9266 2.7338	2.8376	2.7925	Ave		2.8890			0.1000	6.8		20.0			
Bromobenzene	0.7759 0.7363	0.8586 0.7376	0.8703 0.7361	0.7159	0.7714	Ave		0.7753				7.6		20.0			
1,1,2,2-Tetrachloroethane	0.7289 0.7070	0.8449 0.7044	0.7641 0.7025	0.6577	0.7135	Ave		0.7279			0.3000	7.7		20.0			
1,2,3-Trichloropropane	++++ 0.2616	0.3413 0.2668	0.2876 0.2570	0.2574	0.2683	Ave		0.2771				10.9		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.3083	0.3056 0.3176	0.2764 0.3198	0.2815	0.2910	Ave		0.3000				5.8		20.0			
N-Propylbenzene	3.5858 3.1719	3.9416 3.1618	3.4961 2.9854	3.2501	3.2105	Ave		3.3504				9.1		20.0			
2-Chlorotoluene	0.6038 0.6741	0.7066 0.6698	0.7540 0.6669	0.6677	0.6670	Ave		0.6762				6.2		20.0			
1,3,5-Trimethylbenzene	2.3257 2.3387	2.7008 2.3272	2.4599 2.1971	2.3547	2.3879	Ave		2.3865				6.1		20.0			
4-Chlorotoluene	2.4073 2.2636	2.4914 2.2270	2.5259 2.0513	2.3784	2.1094	Ave		2.3068				7.5		20.0			
tert-Butylbenzene	0.5647 0.5364	0.5853 0.5560	0.5390 0.5303	0.5429	0.5532	Ave		0.5510				3.2		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.: 480-89018-1 Analy Batch No.: 266700
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	2.5977 2.4011	2.5641 2.3944	2.4272 2.2246	2.4231	2.5223	Ave		2.4443				4.8		20.0			
sec-Butylbenzene	2.7609 2.9240	3.2678 2.8912	3.1595 2.6510	3.0133	2.9644	Ave		2.9540				6.7		20.0			
1,3-Dichlorobenzene	1.6927 1.3917	1.8304 1.3700	1.5245 1.3097	1.4765	1.4517	Ave		1.5059			0.6000	11.6		20.0			
4-Isopropyltoluene	2.4697 2.5875	2.7356 2.5425	2.7908 2.3499	2.5856	2.6697	Ave		2.5914				5.5		20.0			
1,4-Dichlorobenzene	1.6643 1.4357	1.7151 1.4062	1.5937 1.3664	1.5624	1.4973	Ave		1.5301			0.5000	8.2		20.0			
n-Butylbenzene	2.1720 2.0994	2.3388 2.0807	2.1378 1.9591	2.1986	2.1713	Ave		2.1447				5.1		20.0			
1,2-Dichlorobenzene	1.3795 1.3020	1.7136 1.3046	1.4750 1.2453	1.3830	1.3857	Ave		1.3986			0.4000	10.4		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1472	0.1639 0.1425	0.0943 0.1407	0.1110	0.1248	Ave		0.1321			0.0500	17.9		20.0			
1,2,4-Trichlorobenzene	++++ 0.7280	0.7499 0.7315	0.7263 0.8615	0.7662	0.7499	Ave		0.7590			0.2000	6.3		20.0			
Hexachlorobutadiene	0.4396 0.3381	0.4886 0.3490	0.3679 0.4278	0.4225	0.3667	Ave		0.4001				13.1		20.0			
Naphthalene	1.9645 2.1915	2.2247 2.1597	2.0607 2.3439	2.0716	2.1271	Ave		2.1430				5.4		20.0			
1,2,3-Trichlorobenzene	0.8119 0.6657	0.7346 0.6755	0.6314 0.8362	0.7089	0.6846	Ave		0.7186				10.0		20.0			
Dibromofluoromethane (Surr)	0.2331 0.2276	0.2330 0.2255	0.2300 0.2253	0.2385	0.2371	Ave		0.2313				2.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3293 0.3128	0.3180 0.3165	0.3280 0.3085	0.3267	0.3246	Ave		0.3205				2.4		20.0			
Toluene-d8 (Surr)	1.1682 1.1346	1.1515 1.1233	1.1341 1.1005	1.1376	1.1226	Ave		1.1341				1.8		20.0			
4-Bromofluorobenzene (Surr)	0.3634 0.3668	0.3664 0.3687	0.3718 0.3581	0.3818	0.3680	Ave		0.3681				1.9		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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-266700/6	N2293.D
Level 2	IC 480-266700/7	N2294.D
Level 3	IC 480-266700/8	N2295.D
Level 4	IC 480-266700/9	N2296.D
Level 5	IC 480-266700/10	N2297.D
Level 6	ICIS 480-266700/11	N2298.D
Level 7	IC 480-266700/12	N2299.D
Level 8	IC 480-266700/13	N2300.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	2986 158924	7447 316248	13693 641984	34950	64815	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	4966 186606	9486 364290	17798 720091	40926	78031	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	3355 130536	6485 265268	13122 530827	29068	51922	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	3160 139910	6759 275534	11821 576412	31278	56722	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	1750 64562	3328 134085	5814 279515	15031	26355	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 65702	2747 135770	5726 273690	14826	27644	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	5048 183775	10022 357403	16730 742180	38097	78736	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 186784	8064 371625	15094 779182	38612	72663	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	3048 136954	6266 284367	11715 595009	28182	57096	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	1657 89508	4037 189335	7156 389247	16114	35406	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	2539 116082	5882 230153	9986 483648	24749	47020	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 124309	6297 237099	11148 498608	27253	50377	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	7865 294644	16041 601437	26832 1192003	54688	118482	2.50 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4422 200009	9820 406129	17695 852601	41466	82471	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	7419 353344	15942 716544	29775 1486990	72605	137833	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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	6409 269981	14898 528123	24115 1098710	54514	105063	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	20013 855548	42390 1663962	70456 3212582	158859	342977	2.50 125	5.00 250	10.0 500	25.0	50.0
Methylene Chloride	FB	Lin1	++++ 131932	11315 249605	15112 520441	31063	55787	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	2887 162238	8405 360866	13901 716262	24041	66782	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	8573 412620	18835 832159	32909 1721491	79962	167312	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3153 127203	5914 245329	11824 514351	26959	52566	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	17066 727682	33616 1445982	61845 2834984	137934	302582	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	5082 210645	10840 430575	19404 865204	43887	83278	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	5191 241028	11826 465380	20611 967913	50679	96328	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	12393 622338	24951 1258746	48197 2530813	114868	236669	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	2040 107469	4988 213890	9901 432421	23070	44788	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3148 136953	6486 269293	12114 554888	27079	55136	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	10108 468806	19368 967427	37342 1818223	82958	175644	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	1507 69765	2875 146601	5477 300769	15429	28168	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	2959 130112	5570 269943	10701 555192	23972	50420	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	5698 218630	10305 434104	18350 893626	46476	88477	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	3841 182087	8059 368443	16101 760129	38056	74328	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	5289 260899	12560 517867	22159 1060538	54485	103344	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	3733 176718	7643 355946	14465 744635	35415	70141	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	3468 168038	7313 334657	14384 690486	34709	69348	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	++++ 225476	8477 473068	16560 866622	39118	86890	++++ 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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	11324 476456	24998 946849	42240 1896579	100664	197029	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	5361 207301	10200 418816	18458 855599	42573	85350	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	5012 240876	12015 489783	20914 944215	53289	101128	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	3084 128751	6389 256540	10936 520894	25018	50778	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	3548 211595	9940 419600	18583 868052	44681	86792	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2341 118638	5323 247331	9541 488884	22667	45310	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	1497 75890	3755 158540	6152 322292	15379	30651	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBZ	Ave	++++ 27407	++++ 57411	1474 101494	3774	9143	++++ 500	++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	++++ 158265	6270 320605	11972 669289	28312	57542	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	1322 79605	3267 173981	5164 348545	13735	26622	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3217 186859	7583 390110	13815 798549	32780	66919	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	5507 318263	12105 674008	24876 1318087	59331	123184	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBZ	Lin1	++++ 309111	16896 629917	27835 1226916	61513	123408	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBZ	Ave	2349 167809	5817 358691	10877 726435	29304	57742	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBZ	Ave	2499 151186	6062 337572	10343 662202	26342	53499	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	1391 83777	3603 174661	7117 349000	16099	30994	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBZ	Ave	3140 140319	6629 281608	12240 561579	30489	54235	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	3813 185753	8260 383476	15482 747280	33272	67325	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBZ	Ave	10878 596758	23437 1271664	44646 2301321	113369	216631	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBZ	Ave	2135 118169	4474 260119	7895 538160	20345	40998	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	2291 113599	4439 244191	8511 485212	20778	42746	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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	CBZ	Ave	8306 332362	15910 684435	27716 1339374	66889	127696	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBZ	Ave	11135 553398	25561 1136756	48438 2180501	109075	211278	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	2344 121238	4579 257732	9563 523082	24106	46265	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBZ	Ave	4116 218198	9938 471253	18204 922606	42228	84573	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBZ	Ave	3910 222283	9360 472556	17463 922019	43289	85293	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBZ	Ave	6920 357661	14338 761577	26437 1484564	70827	138427	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBZ	Ave	++++ 66838	2614 153074	4917 325126	11403	24778	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCB	Ave	10363 563198	25282 1177121	44806 2216029	113713	217404	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCB	Ave	2872 147471	6468 304234	13325 596707	28689	60052	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCB	Ave	2698 141602	6365 290549	11698 569426	26356	55550	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	++++ 52391	2571 110041	4403 208357	10313	20885	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	++++ 61750	2302 131007	4231 259248	11281	22652	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCB	Ave	13272 635281	29693 1304179	53525 2419915	130244	249943	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCB	Ave	2235 135016	5323 276290	11543 540589	26757	51930	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	8608 468409	20346 959912	37661 1780926	94363	185899	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCB	Ave	8910 453369	18768 918578	38671 1662803	95312	164222	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCB	Ave	2090 107429	4409 229336	8252 429877	21755	43067	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	9615 480918	19316 987652	37160 1803286	97102	196367	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCB	Ave	10219 585637	24617 1192552	48372 2148862	120754	230783	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	6265 278746	13789 565104	23340 1061611	59167	113017	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCB	Ave	9141 518247	20608 1048739	42727 1904789	103613	207837	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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 15:48 Calibration End Date: 10/02/2015 18:55 Calibration ID: 25097

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	DCB	Ave	6160 287559	12920 580021	24400 1107573	62612	116566	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCB	Ave	8039 420482	17619 858232	32730 1588024	88105	169042	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	5106 260777	12909 538138	22583 1009437	55421	107880	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	++++ 29492	1235 58772	1443 114051	4450	9713	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	++++ 145812	5649 301717	11120 698338	30705	58381	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCB	Ave	1627 67727	3681 143972	5633 346812	16933	28547	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCB	Ave	7271 438928	16759 890844	31550 1899918	83017	165598	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	3005 133336	5534 278638	9667 677805	28409	53295	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	117738 117807	118727 119751	115527 122174	118853	116832	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	166327 161879	162007 168035	164727 167291	162824	159970	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	428174 431457	415270 455789	416379 445470	413895	400198	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	133209 139503	132145 149618	136505 144944	138907	131181	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\HP5973N\20151002-46854.b\N2293.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 02-Oct-2015 15:48:30 ALS Bottle#: 15 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0046854-006
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:45:49 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:45:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.598	0.001	98	505166	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.597	0.001	87	366536	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	96	185064	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.996	4.996	0.000	94	117738	25.0	25.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.312	0.001	0	166327	25.0	25.7	
\$ 6 Toluene-d8 (Surr)	98	7.114	7.113	0.001	94	428174	25.0	25.8	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	133209	25.0	24.7	
11 Dichlorodifluoromethane	85	1.371	1.370	0.001	95	2986	0.5000	0.4579	
13 Chloromethane	50	1.529	1.534	-0.005	92	4966	0.5000	0.6065	
14 Vinyl chloride	62	1.644	1.644	0.000	91	3355	0.5000	0.5829	
144 Butadiene	54	1.669	1.674	-0.005	81	3160	0.5000	0.5356	
15 Bromomethane	94	1.967	1.966	0.001	1	1750	0.5000	0.6048	M
16 Chloroethane	64	2.070	2.070	0.000	23	1707	0.5000	0.6243	
17 Dichlorofluoromethane	67	2.289	2.289	0.000	92	5048	0.5000	0.6201	
18 Trichlorofluoromethane	101	2.320	2.319	0.001	39	3315	0.5000	0.4421	
19 Ethyl ether	59	2.599	2.599	0.000	93	3048	0.5000	0.5293	
20 Acrolein	56	2.764	2.763	0.001	41	1657	2.50	2.32	
21 1,1,2-Trichloro-1,2,2-trif	101	2.819	2.818	0.000	1	2119	0.5000	0.4058	M
22 1,1-Dichloroethene	96	2.812	2.818	-0.006	86	2539	0.5000	0.5183	
23 Acetone	43	2.922	2.922	0.000	96	7865	2.50	3.07	
24 Iodomethane	142	2.965	2.982	-0.018	0	4422	0.5000	0.5216	M
25 Carbon disulfide	76	3.038	3.025	0.013	99	7419	0.5000	0.5128	
27 3-Chloro-1-propene	41	3.184	3.189	-0.005	75	6409	0.5000	0.5551	
28 Methyl acetate	43	3.226	3.226	0.000	100	20013	2.50	2.86	
30 Methylene Chloride	84	3.323	3.329	-0.006	93	7743	0.5000	0.2557	
31 2-Methyl-2-propanol	59	3.488	3.481	0.007	1	2887	5.00	4.38	M
32 Methyl tert-butyl ether	73	3.561	3.554	0.007	65	8573	0.5000	0.5129	
33 trans-1,2-Dichloroethene	96	3.567	3.566	0.001	95	3153	0.5000	0.5813	
34 Acrylonitrile	53	3.591	3.591	0.000	98	17066	5.00	5.69	
35 Hexane	57	3.786	3.785	0.001	86	5082	0.5000	0.5601	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.980	0.000	0	5191	0.5000	0.5197	M
39 Vinyl acetate	43	4.029	4.035	-0.006	96	12393	1.00	1.03	
42 2,2-Dichloropropane	77	4.504	4.515	-0.011	8	2040	0.5000	0.4589	
43 cis-1,2-Dichloroethene	96	4.534	4.540	-0.006	77	3148	0.5000	0.5523	
44 2-Butanone (MEK)	43	4.571	4.558	0.013	61	10108	2.50	2.76	
47 Chlorobromomethane	128	4.765	4.771	-0.006	68	1507	0.5000	0.5253	
49 Tetrahydrofuran	42	4.802	4.801	0.001	82	2959	1.00	1.12	
50 Chloroform	83	4.844	4.850	-0.006	93	5698	0.5000	0.6122	
51 1,1,1-Trichloroethane	97	4.984	4.978	0.006	79	3841	0.5000	0.5095	
52 Cyclohexane	56	5.009	5.002	0.007	33	5289	0.5000	0.4935	M
53 Carbon tetrachloride	117	5.124	5.124	0.000	91	3733	0.5000	0.5212	
54 1,1-Dichloropropene	75	5.124	5.130	-0.006	82	3468	0.5000	0.5051	
56 Isobutyl alcohol	43	5.331	5.312	0.019	31	3197	12.5	9.41	M
55 Benzene	78	5.331	5.331	0.000	94	11324	0.5000	0.5539	
57 1,2-Dichloroethane	62	5.380	5.385	-0.005	92	5361	0.5000	0.5996	
59 n-Heptane	43	5.532	5.531	0.001	92	5012	0.5000	0.4941	
60 Trichloroethene	95	5.945	5.945	0.000	90	3084	0.5000	0.5732	
62 Methylcyclohexane	83	6.079	6.085	-0.006	93	3548	0.5000	0.4139	
63 1,2-Dichloropropane	63	6.177	6.176	0.001	80	2341	0.5000	0.4943	
64 Dibromomethane	93	6.310	6.304	0.006	85	1497	0.5000	0.4780	
66 1,4-Dioxane	88		6.316				ND	ND	
67 Dichlorobromomethane	83	6.456	6.456	0.000	2	2557	0.5000	0.4222	M
69 2-Chloroethyl vinyl ether	63	6.742	6.742	0.000	0	1322	0.5000	0.4470	M
71 cis-1,3-Dichloropropene	75	6.876	6.882	-0.006	73	3217	0.5000	0.4550	
72 4-Methyl-2-pentanone (MIBK)	58	7.022	7.016	0.006	98	5507	2.50	2.28	
73 Toluene	92	7.180	7.180	0.000	95	10552	0.5000	0.3700	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	0	2349	0.5000	0.3964	M
77 Ethyl methacrylate	69	7.497	7.496	0.001	0	2499	0.5000	0.4437	M
78 1,1,2-Trichloroethane	83	7.631	7.630	0.001	86	1391	0.5000	0.4284	
79 Tetrachloroethene	166	7.722	7.721	0.001	91	3140	0.5000	0.5410	
80 1,3-Dichloropropane	76	7.795	7.794	0.001	92	3813	0.5000	0.5238	
82 2-Hexanone	43	7.862	7.861	0.001	98	10878	2.50	2.42	
83 Chlorodibromomethane	129	8.032	8.038	-0.006	86	2135	0.5000	0.4852	
84 Ethylene Dibromide	107	8.148	8.141	0.007	96	2291	0.5000	0.5220	
85 Chlorobenzene	112	8.628	8.628	0.000	95	8306	0.5000	0.6012	
89 1,1,1,2-Tetrachloroethane	131	8.726	8.725	0.001	43	2344	0.5000	0.4961	
88 Ethylbenzene	91	8.726	8.725	0.001	96	11135	0.5000	0.5012	
90 m-Xylene & p-Xylene	106	8.853	8.847	0.006	0	4116	0.5000	0.4710	
91 o-Xylene	106	9.279	9.273	0.006	92	3910	0.5000	0.4533	
92 Styrene	104	9.304	9.303	0.001	92	6920	0.5000	0.4983	
93 Bromoform	173	9.535	9.540	-0.005	1	1125	0.5000	0.4317	
95 Isopropylbenzene	105	9.663	9.656	0.007	95	10363	0.5000	0.4846	
97 Bromobenzene	156	9.985	9.991	-0.006	90	2872	0.5000	0.5004	
98 1,1,2,2-Tetrachloroethane	83	10.021	10.027	-0.006	81	2698	0.5000	0.5007	
99 1,2,3-Trichloropropane	110		10.064				ND	ND	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	62	921	0.5000	0.4147	
100 N-Propylbenzene	91	10.082	10.076	0.006	98	13272	0.5000	0.5351	
102 2-Chlorotoluene	126	10.174	10.179	-0.005	0	2235	0.5000	0.4465	M
104 1,3,5-Trimethylbenzene	105	10.259	10.252	0.007	96	8608	0.5000	0.4873	
105 4-Chlorotoluene	91	10.289	10.289	0.000	96	8910	0.5000	0.5218	
106 tert-Butylbenzene	134	10.569	10.569	0.000	92	2090	0.5000	0.5124	
108 1,2,4-Trimethylbenzene	105	10.624	10.623	0.001	94	9615	0.5000	0.5314	

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	10.776	10.781	-0.005	94	10219	0.5000	0.4673	
110 1,3-Dichlorobenzene	146	10.910	10.909	0.001	84	6265	0.5000	0.5620	
111 4-Isopropyltoluene	119	10.916	10.915	0.001	94	9141	0.5000	0.4765	
113 1,4-Dichlorobenzene	146	10.995	10.994	0.001	91	6160	0.5000	0.5438	
115 n-Butylbenzene	91	11.305	11.299	0.006	97	8039	0.5000	0.5064	
116 1,2-Dichlorobenzene	146	11.342	11.341	0.001	94	5106	0.5000	0.4932	
117 1,2-Dibromo-3-Chloropropan	75		12.059				ND	ND	
119 1,2,4-Trichlorobenzene	180	12.753	12.746	0.007	89	2434	0.5000	0.4332	
120 Hexachlorobutadiene	225	12.862	12.868	-0.006	0	1627	0.5000	0.5494	M
121 Naphthalene	128	12.960	12.959	0.001	1	7271	0.5000	0.4584	
122 1,2,3-Trichlorobenzene	180	13.161	13.160	0.001	4	3005	0.5000	0.5649	
S 125 Total BTEX	1				0			2.35	
S 126 Xylenes, Total	1				0			0.9244	
S 123 1,3-Dichloropropene, Total	1				0			0.8514	
S 124 1,2-Dichloroethene, Total	1				0			1.13	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053	Amount Added: 0.50	Units: uL	
GAS CORP mix_00111	Amount Added: 0.50	Units: uL	
N_8260_Surr_00145	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00004	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 0.5

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

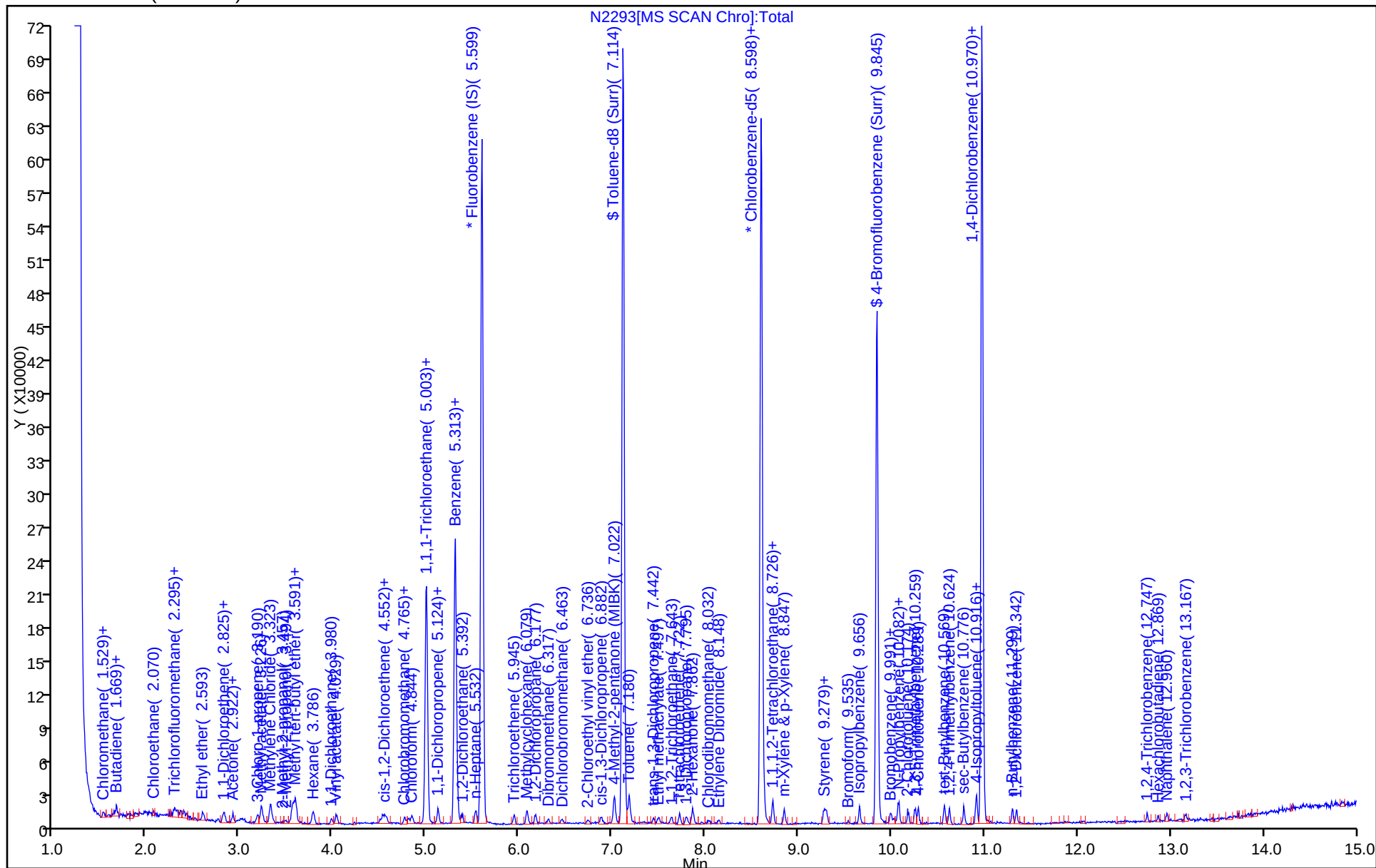
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



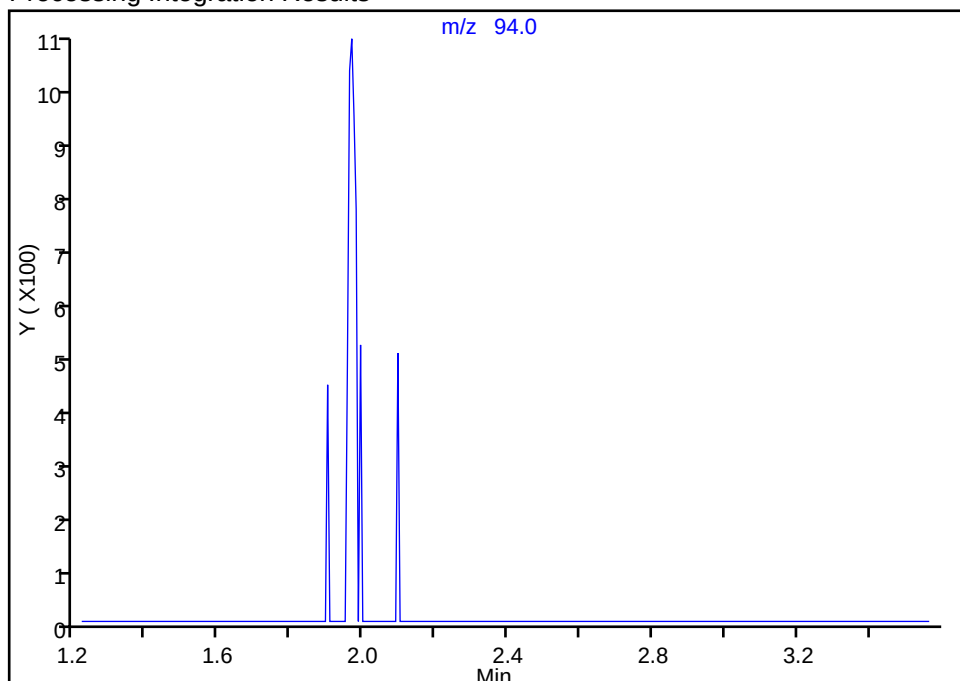
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D
Injection Date: 02-Oct-2015 15:48:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: gtg ALS Bottle#: 15 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

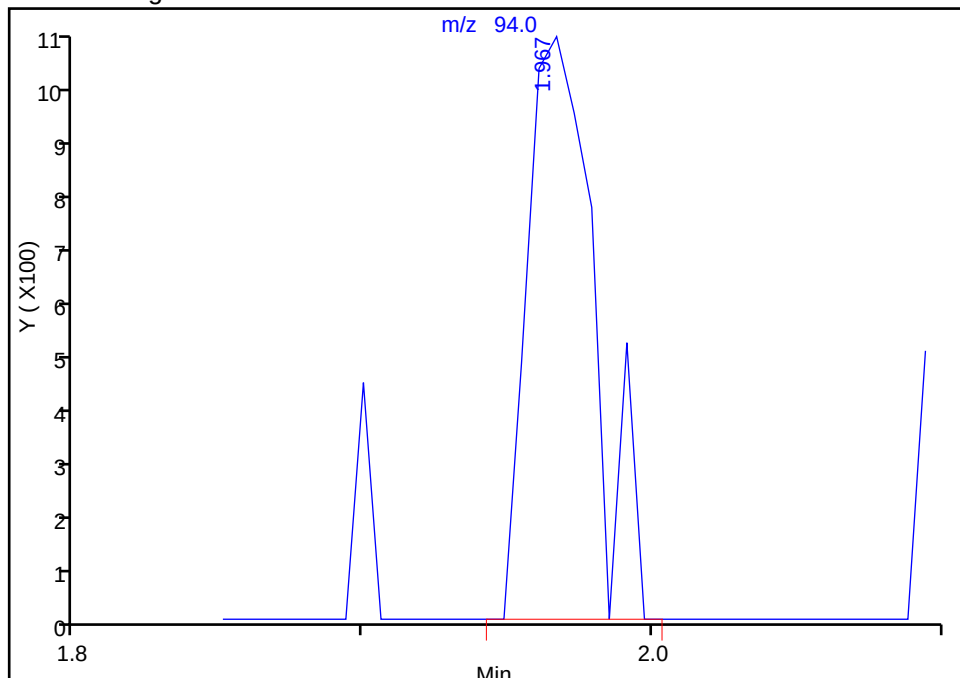
Not Detected
Expected RT: 1.97

Processing Integration Results



RT: 1.97
Area: 1750
Amount: 0.604800
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:41:28
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#: 15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

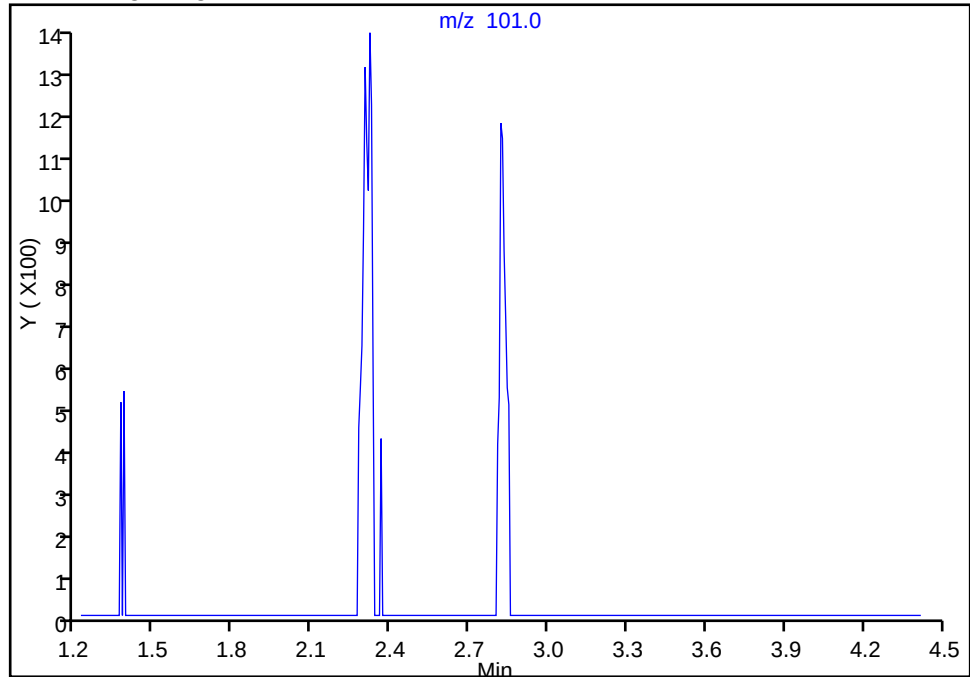
Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

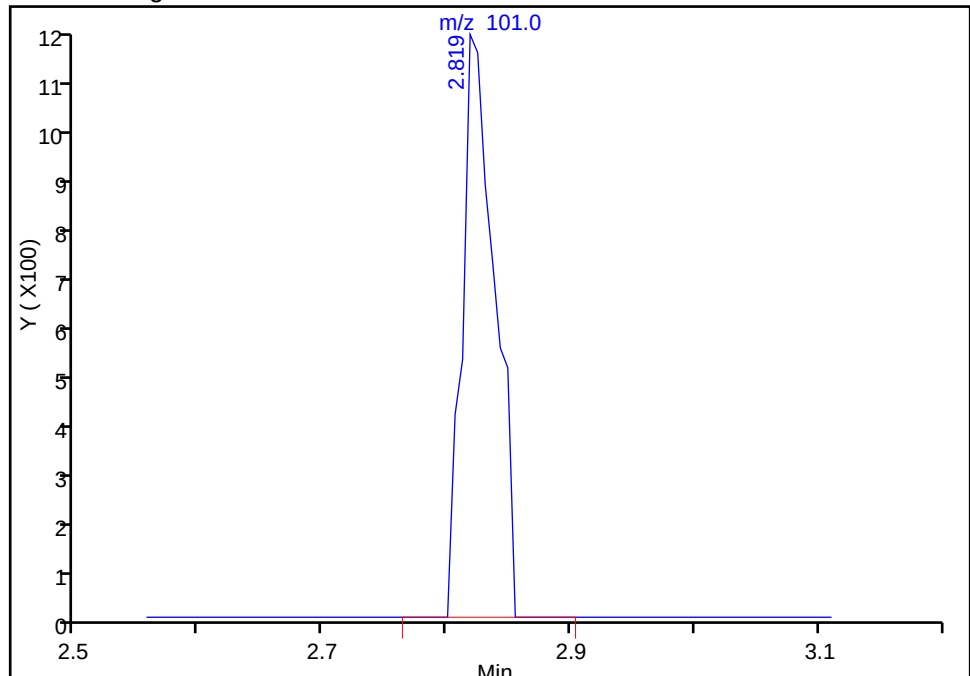
Not Detected

Expected RT: 2.82

Processing Integration Results



Manual Integration Results



RT: 2.82

Area: 2119

Amount: 0.405846

Amount Units: ug/L

Reviewer: goliszekg, 05-Oct-2015 10:41:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

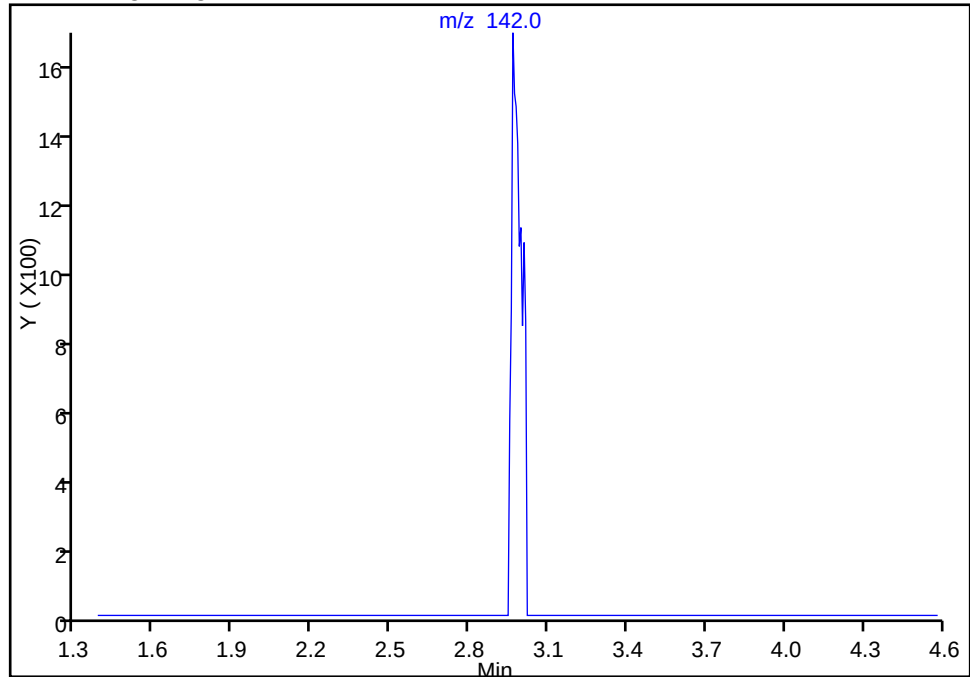
MS SCAN

24 Iodomethane, CAS: 74-88-4

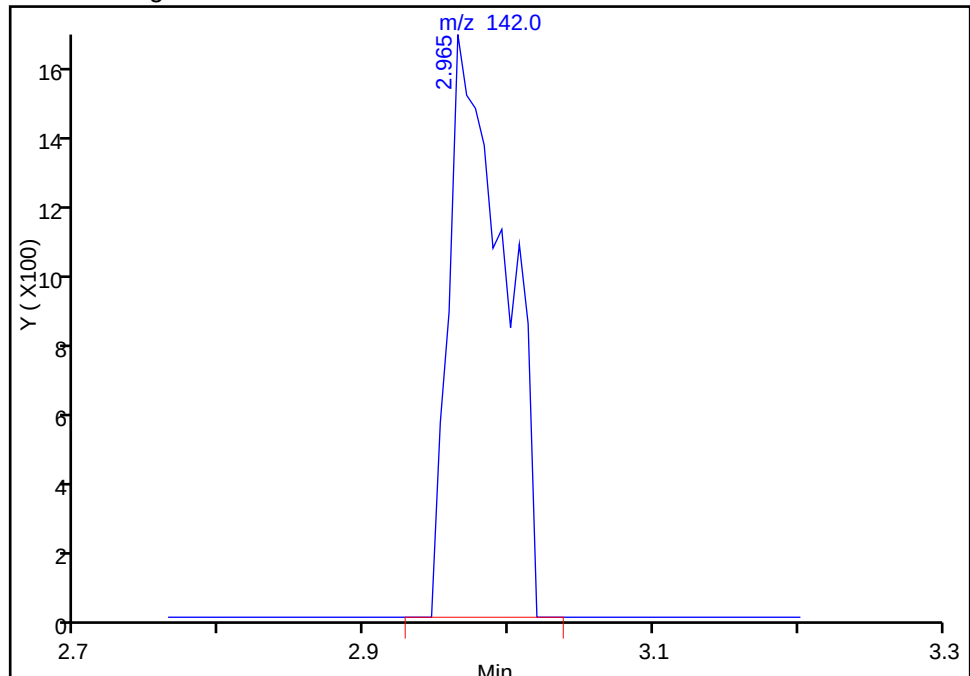
Not Detected

Expected RT: 2.98

Processing Integration Results



Manual Integration Results



RT: 2.96

Area: 4422

Amount: 0.521628

Amount Units: ug/L

Reviewer: goliszekg, 05-Oct-2015 10:41:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

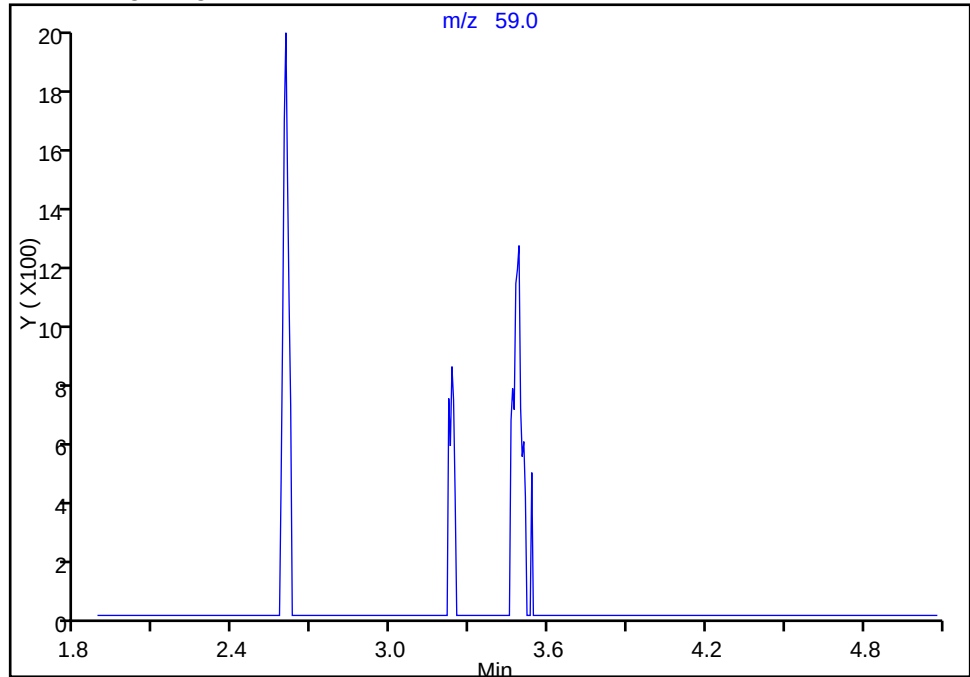
Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Not Detected

Expected RT: 3.48

Processing Integration Results



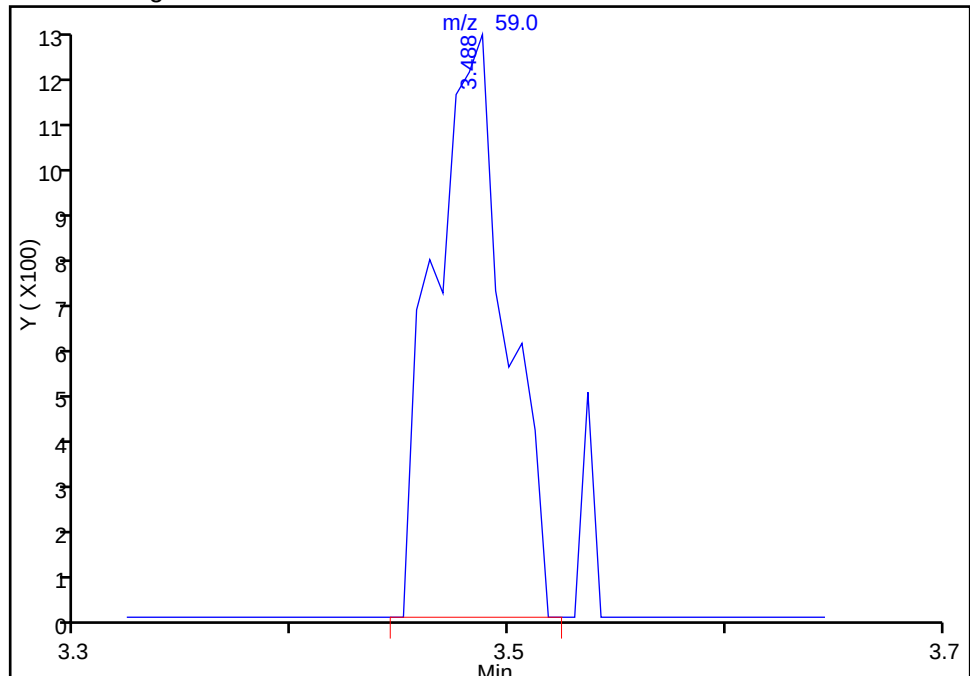
RT: 3.49

Area: 2887

Amount: 4.383303

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:41:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

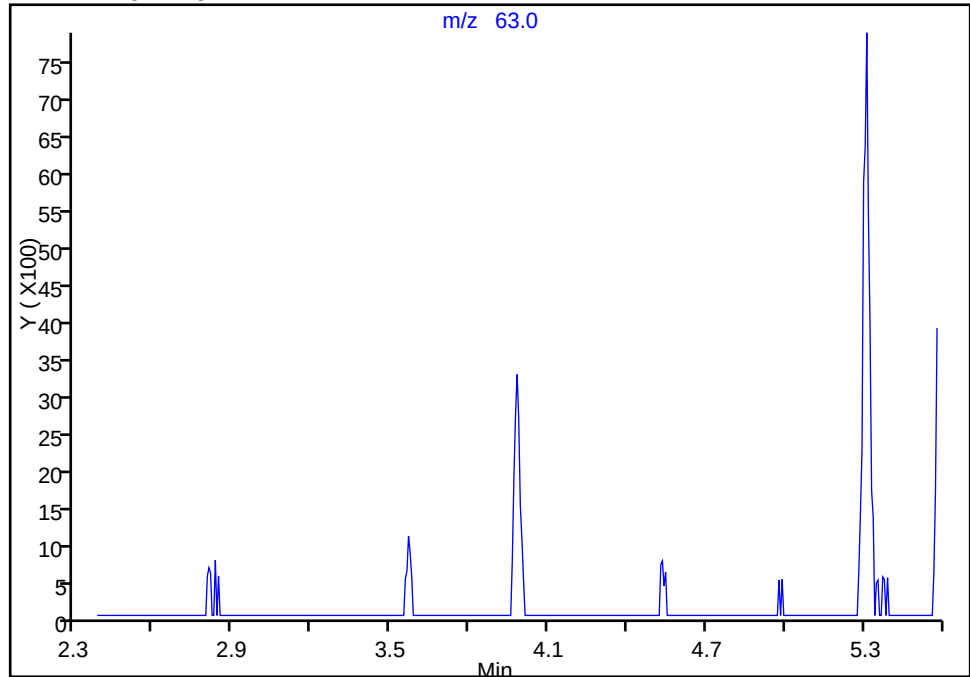
Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

Not Detected

Expected RT: 3.98

Processing Integration Results



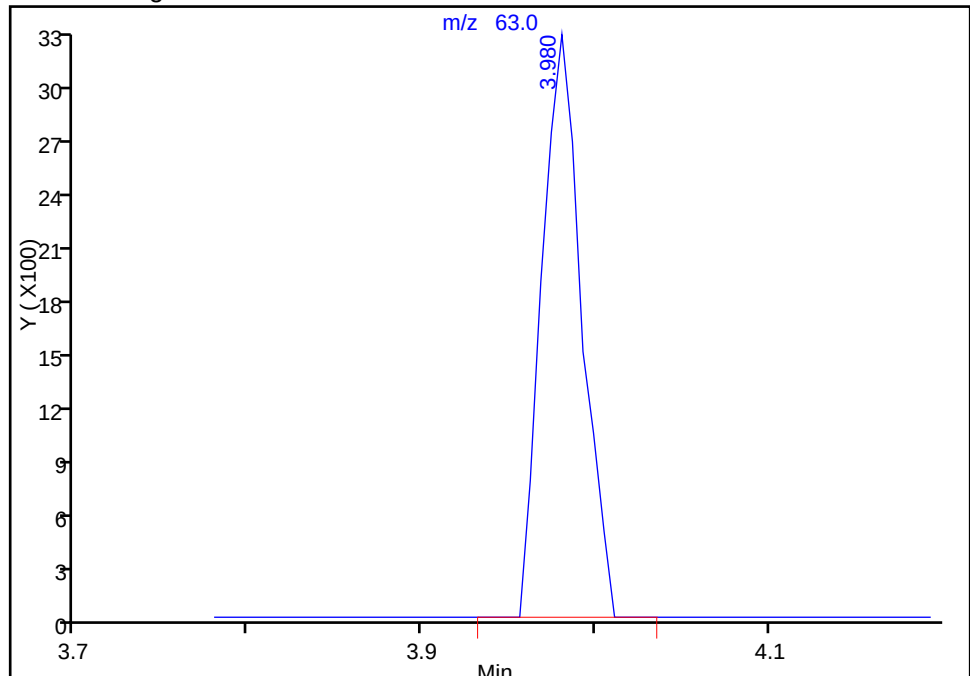
RT: 3.98

Area: 5191

Amount: 0.519729

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:41:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

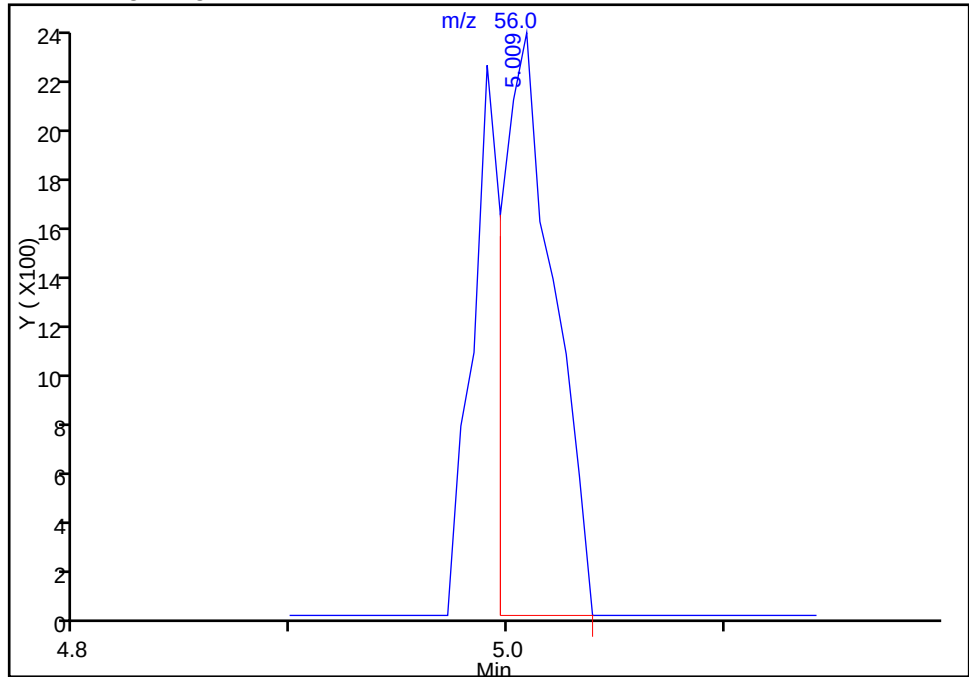
Detector

MS SCAN

52 Cyclohexane, CAS: 110-82-7

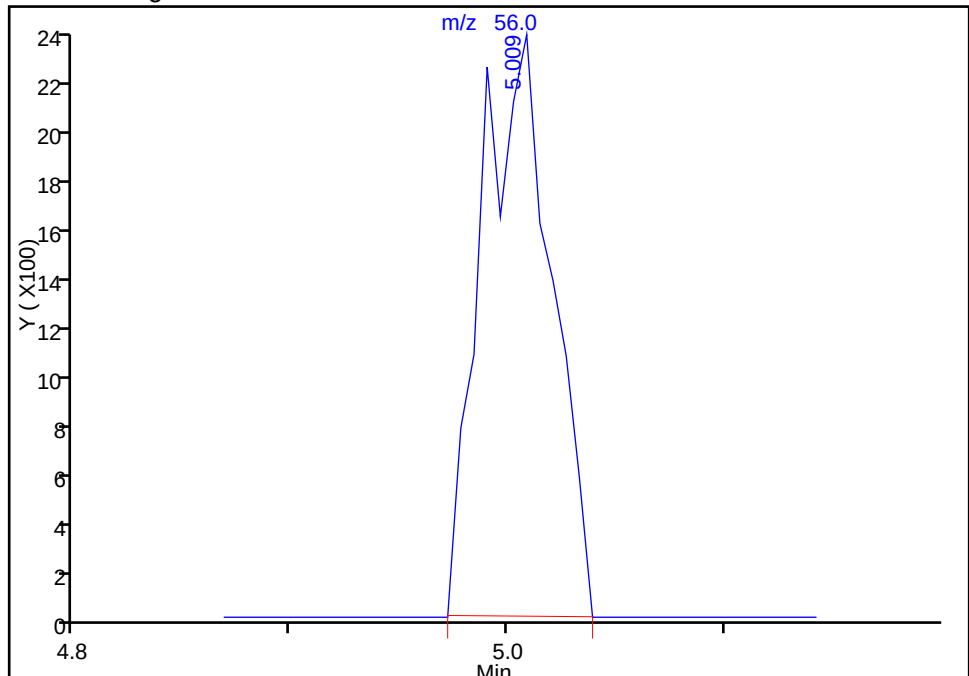
RT: 5.01
Area: 3843
Amount: 0.371118
Amount Units: ug/L

Processing Integration Results



RT: 5.01
Area: 5289
Amount: 0.493529
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:39:12

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

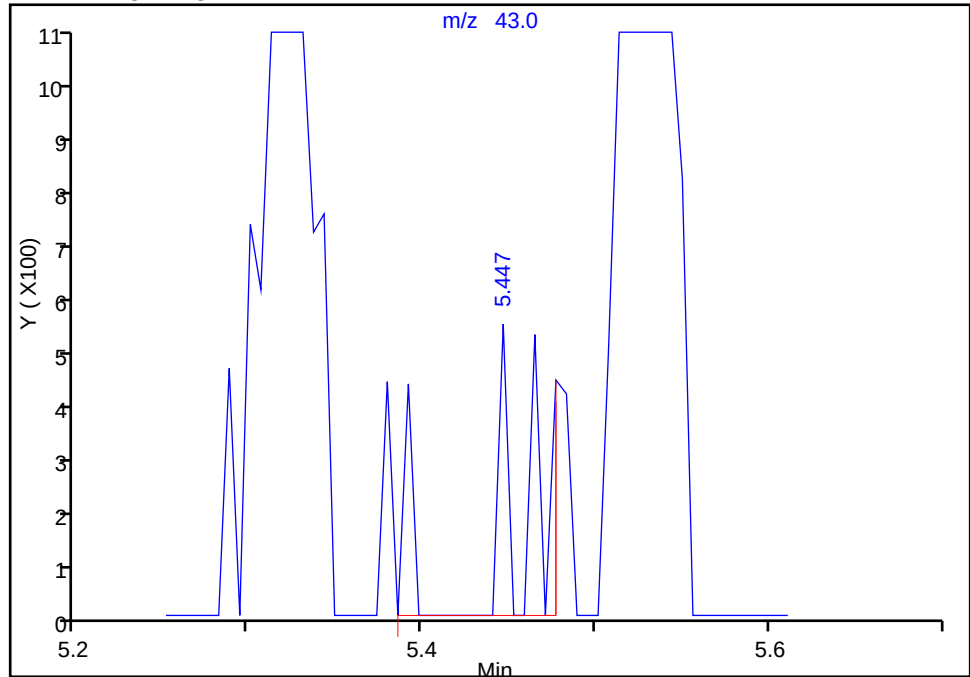
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

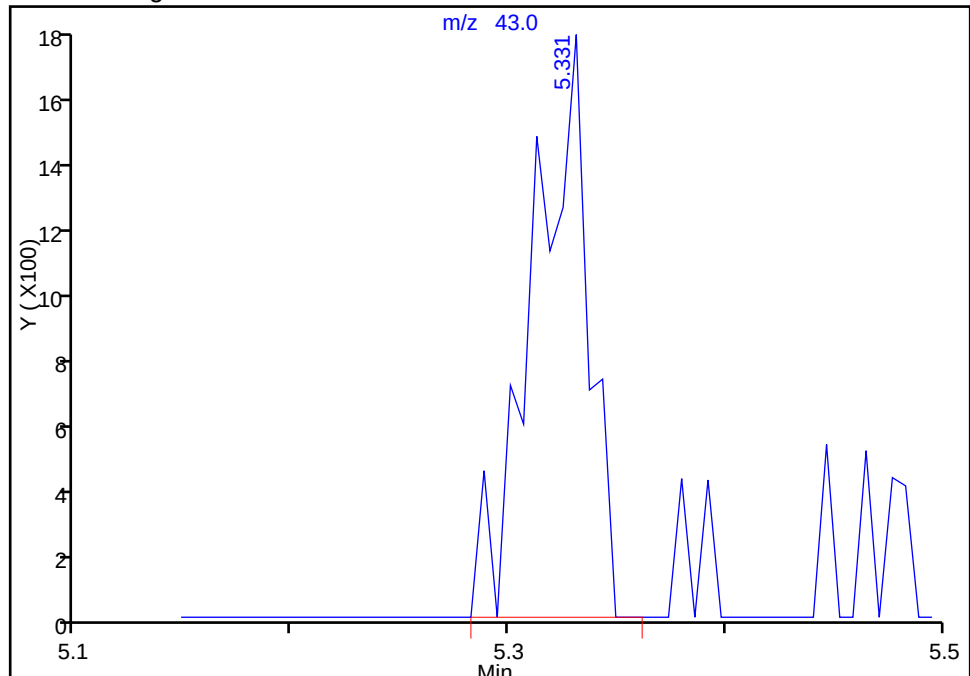
RT: 5.45
Area: 685
Amount: 11.604958
Amount Units: ug/L

Processing Integration Results



RT: 5.33
Area: 3197
Amount: 9.411210
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:41:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

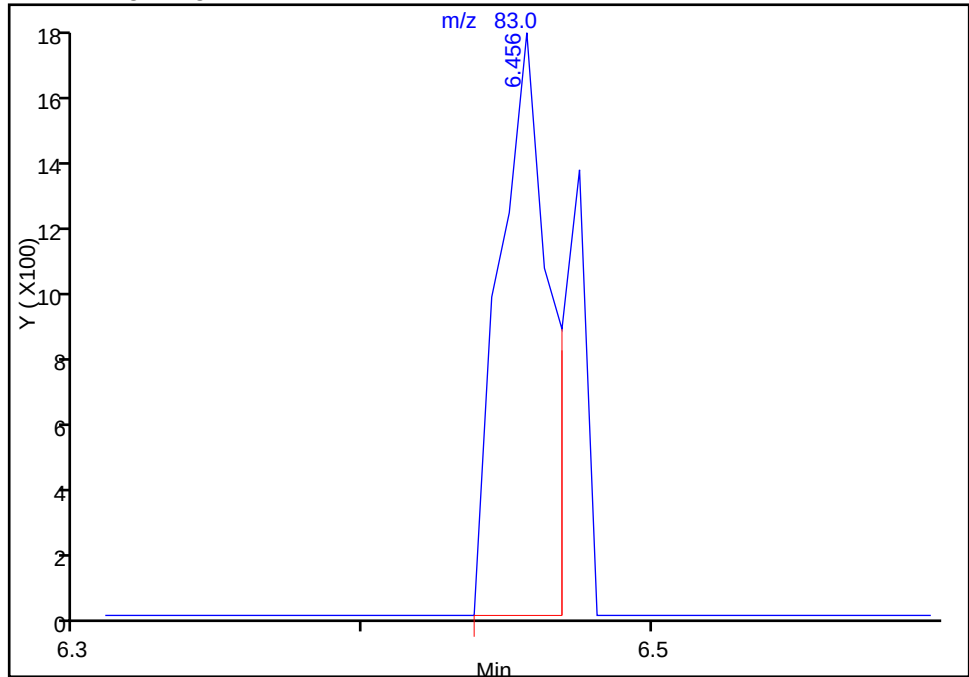
Detector

MS SCAN

67 Dichlorobromomethane, CAS: 75-27-4

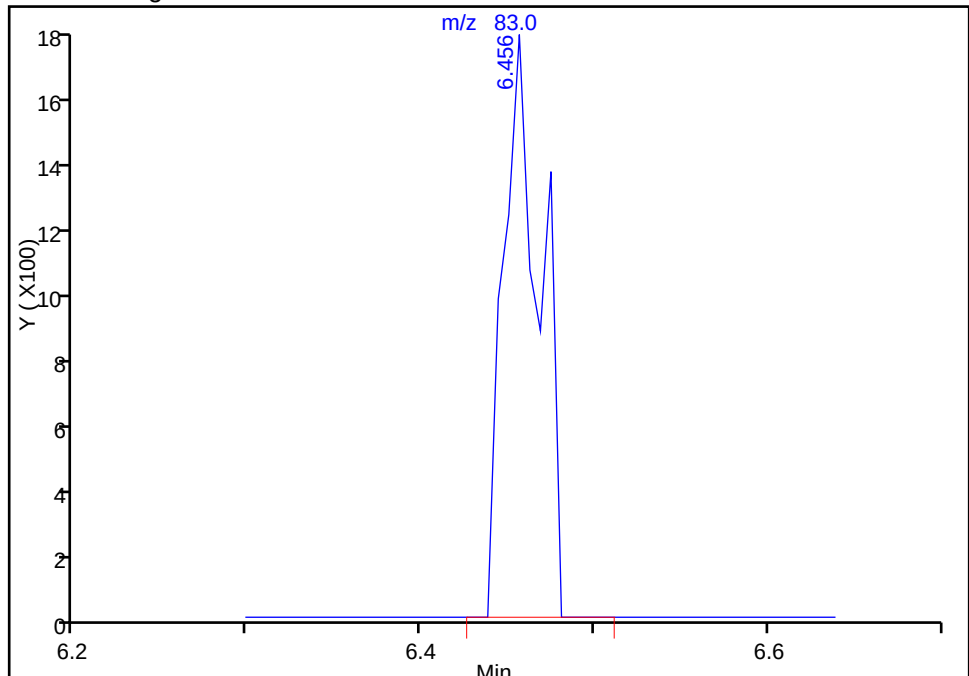
RT: 6.46
Area: 2079
Amount: 0.357311
Amount Units: ug/L

Processing Integration Results



RT: 6.46
Area: 2557
Amount: 0.422249
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:47:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

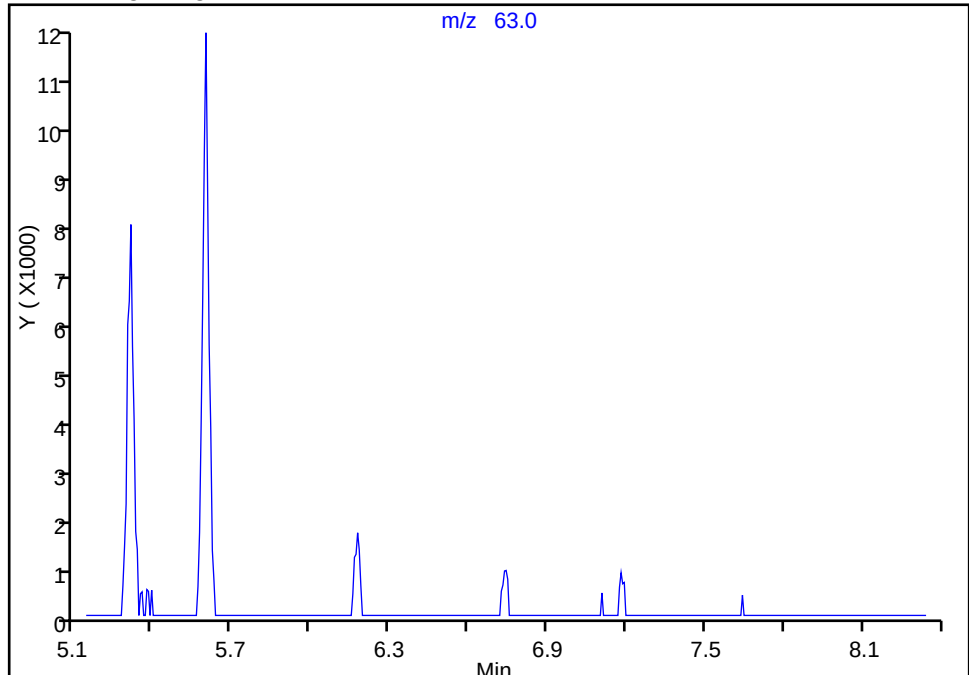
MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

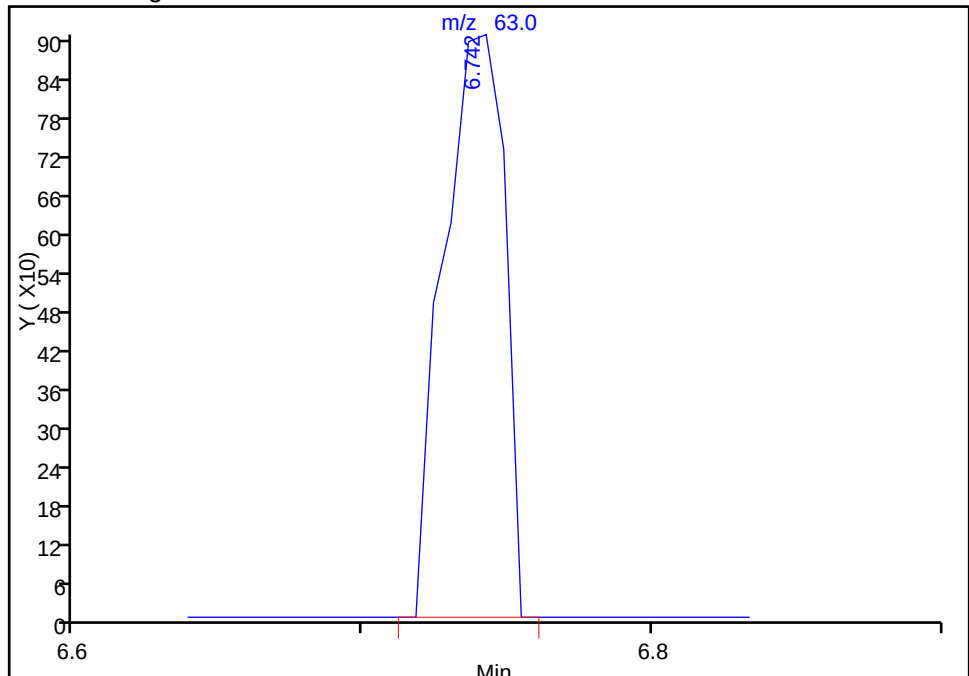
Not Detected

Expected RT: 6.74

Processing Integration Results



Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:47:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#:

6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

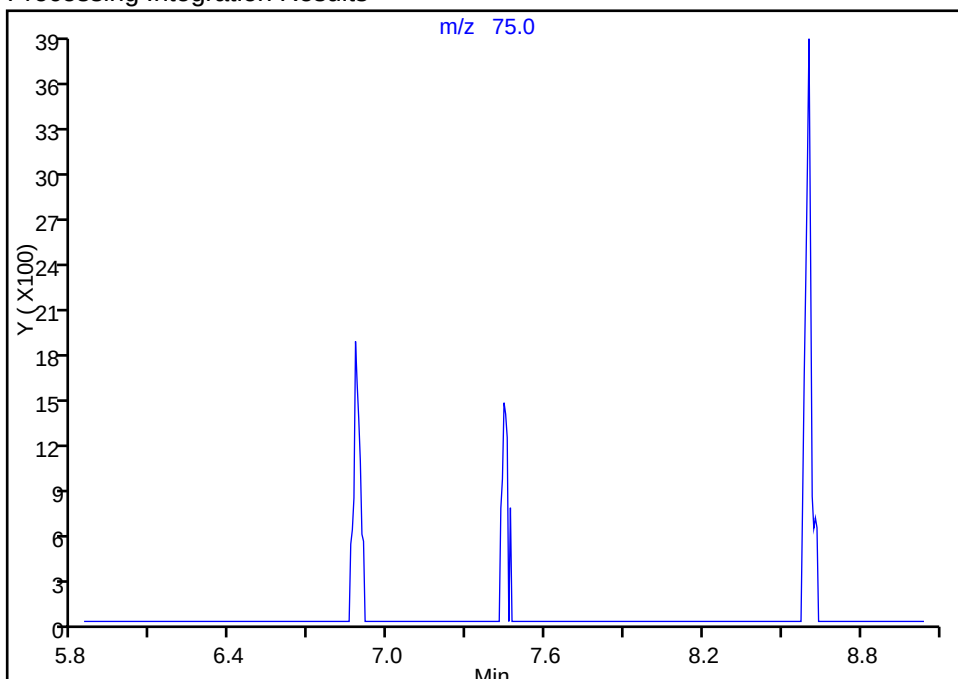
MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

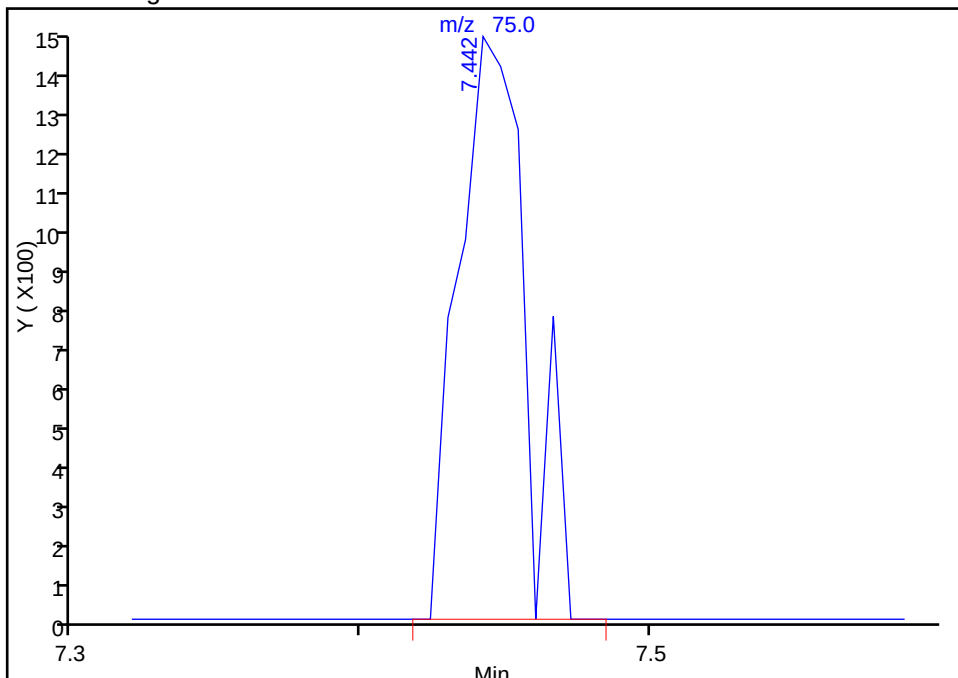
Not Detected

Expected RT: 7.44

Processing Integration Results



Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:47:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

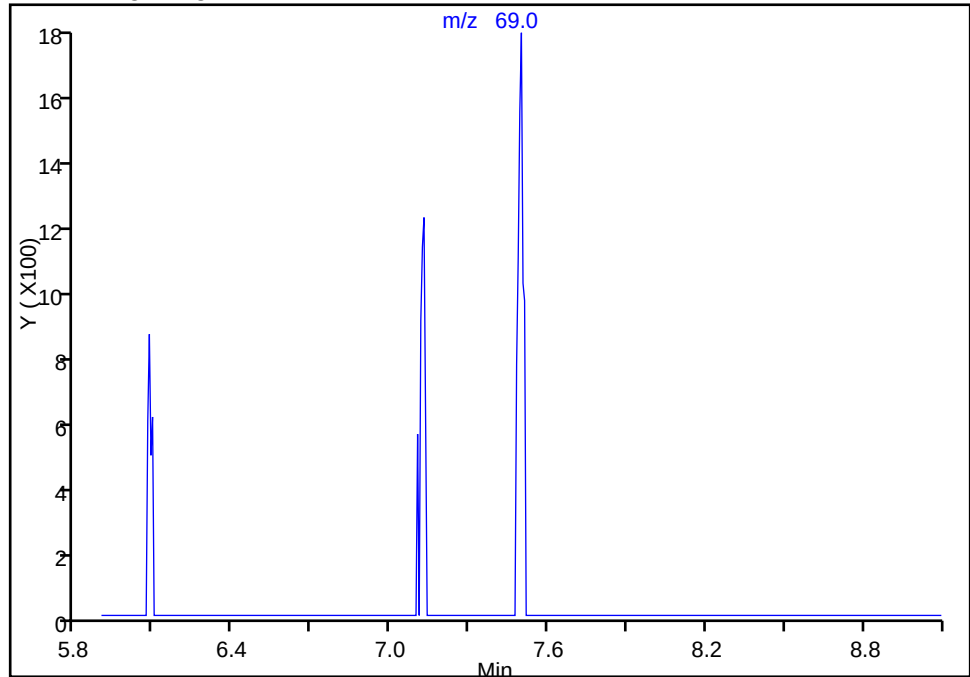
MS SCAN

77 Ethyl methacrylate, CAS: 97-63-2

Not Detected

Expected RT: 7.50

Processing Integration Results



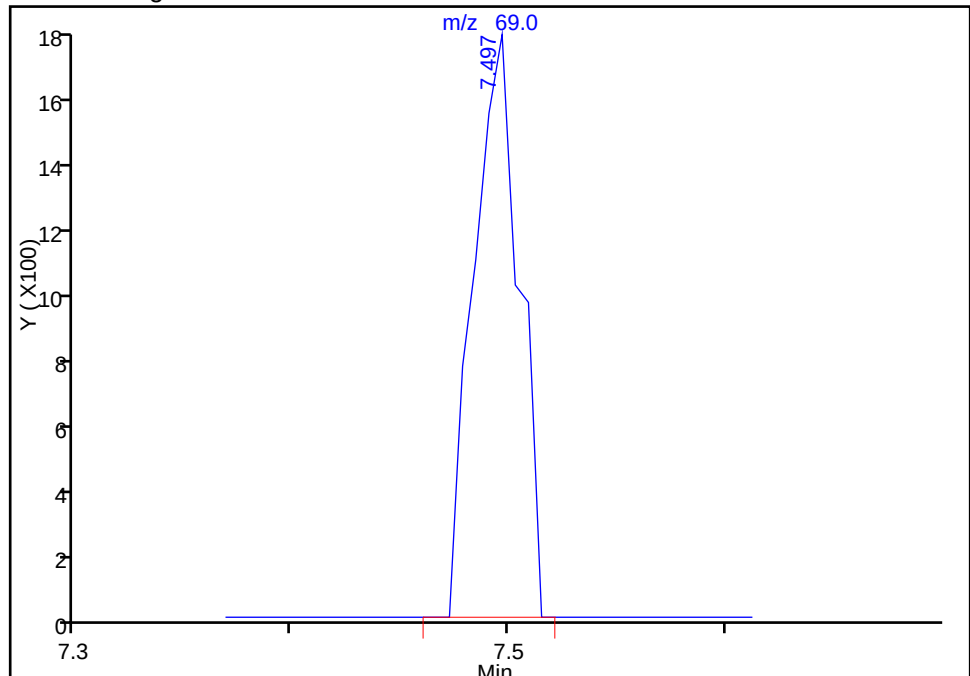
RT: 7.50

Area: 2499

Amount: 0.443727

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:47:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

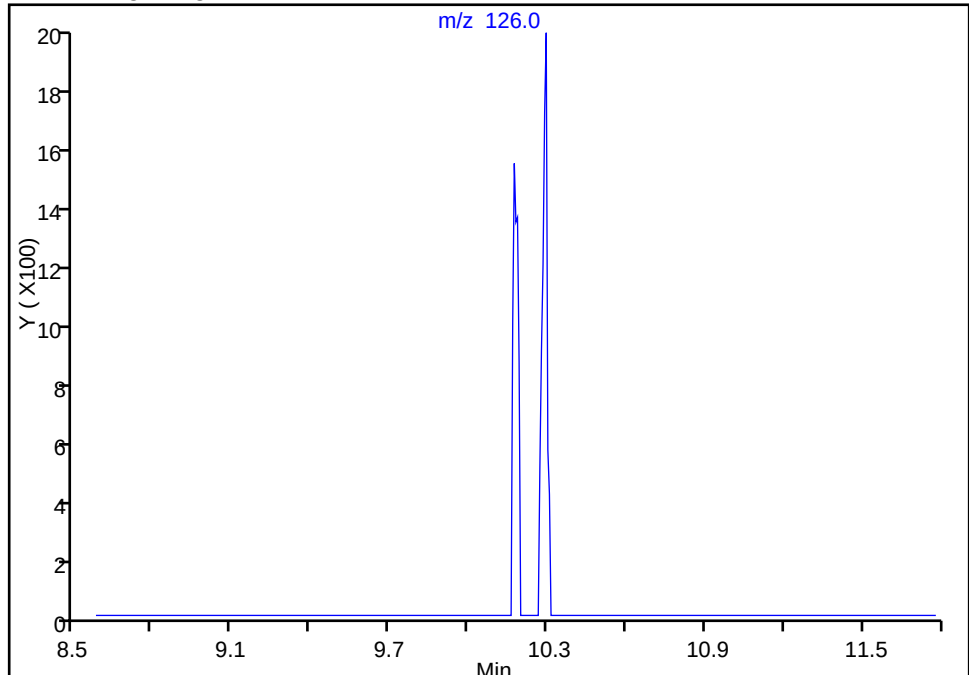
Detector: MS SCAN

102 2-Chlorotoluene, CAS: 95-49-8

Not Detected

Expected RT: 10.18

Processing Integration Results



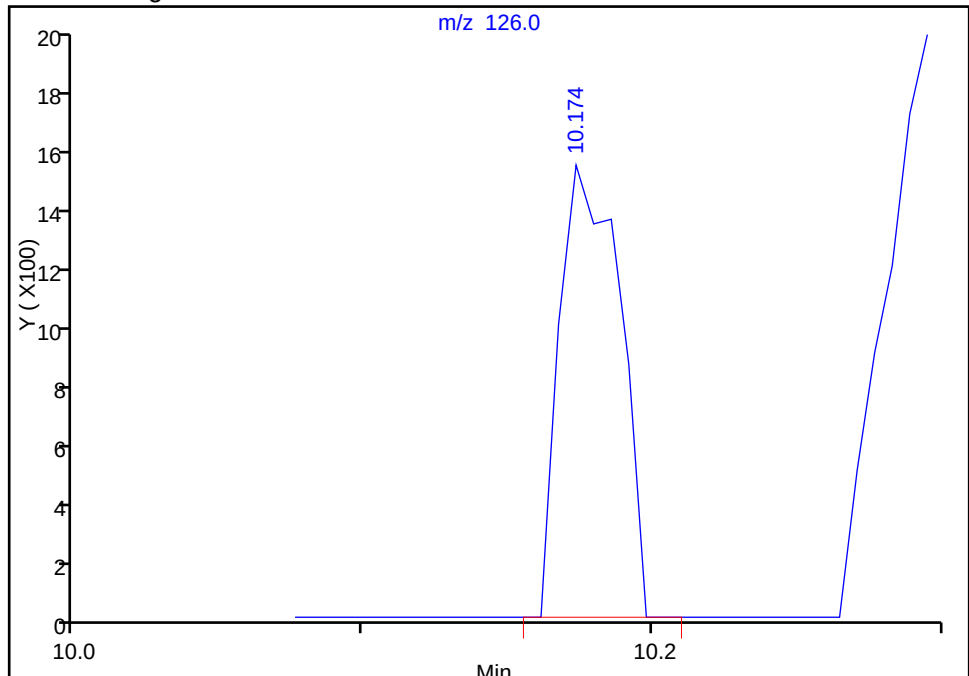
RT: 10.17

Area: 2235

Amount: 0.446467

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:47:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2293.D

Injection Date: 02-Oct-2015 15:48:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: gtg

ALS Bottle#:

15

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

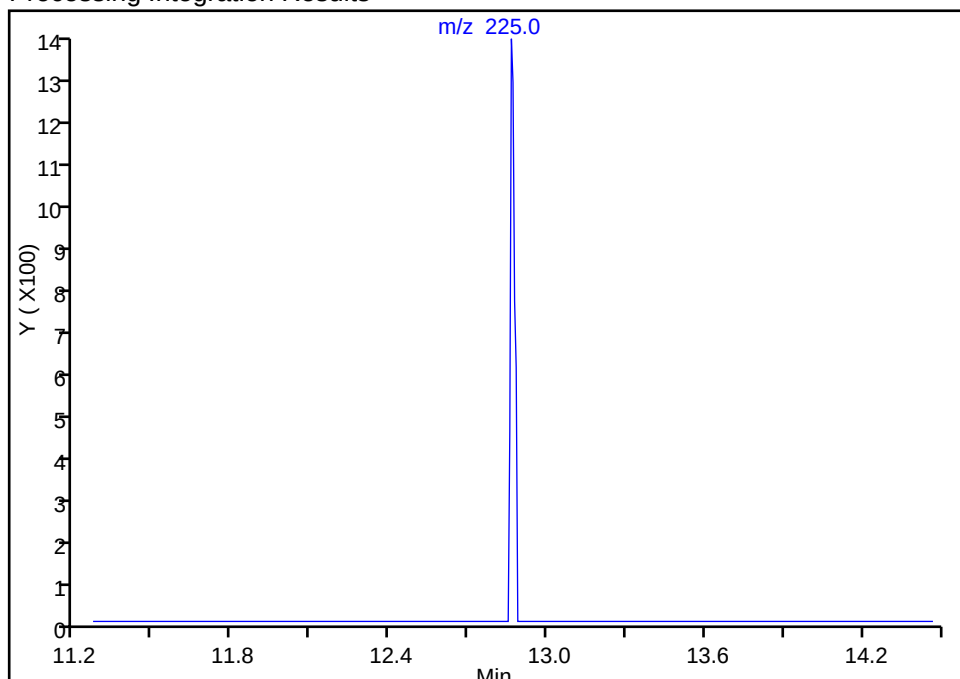
MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Not Detected

Expected RT: 12.87

Processing Integration Results



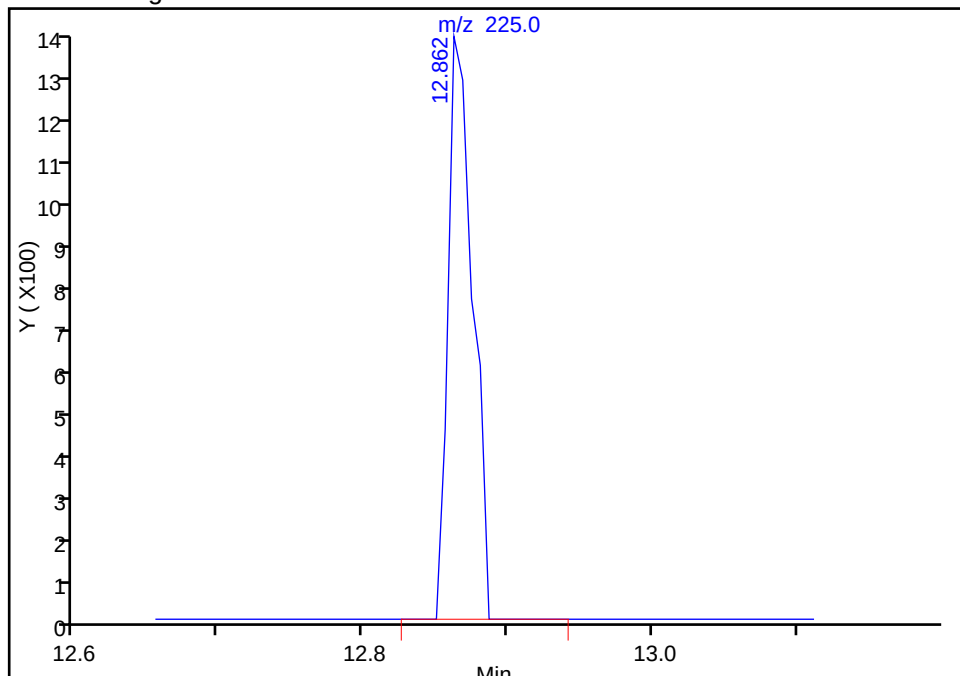
RT: 12.86

Area: 1627

Amount: 0.549401

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:47:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2294.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 02-Oct-2015 16:15:30 ALS Bottle#: 16 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0046854-007
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:45:57 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.598	0.001	98	509470	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.597	0.001	87	360621	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	95	188330	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	4.996	0.006	94	118727	25.0	25.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.312	0.001	0	162007	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.113	0.000	94	415270	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	91	132145	25.0	24.9	
11 Dichlorodifluoromethane	85	1.383	1.370	0.013	27	7447	1.00	1.13	
13 Chloromethane	50	1.535	1.534	0.001	97	9486	1.00	1.15	
14 Vinyl chloride	62	1.644	1.644	0.000	95	6485	1.00	1.12	
144 Butadiene	54	1.675	1.674	0.001	95	6759	1.00	1.14	
15 Bromomethane	94	1.967	1.966	0.001	53	3328	1.00	1.14	
16 Chloroethane	64	2.082	2.070	0.012	35	2747	1.00	1.00	
17 Dichlorofluoromethane	67	2.301	2.289	0.012	96	10022	1.00	1.22	
18 Trichlorofluoromethane	101	2.301	2.319	-0.018	94	8064	1.00	1.07	
19 Ethyl ether	59	2.599	2.599	0.000	86	6266	1.00	1.08	
20 Acrolein	56	2.764	2.763	0.001	33	4037	5.00	5.61	
21 1,1,2-Trichloro-1,2,2-trif	101	2.831	2.818	0.012	75	6297	1.00	1.20	
22 1,1-Dichloroethene	96	2.818	2.818	0.000	98	5882	1.00	1.19	
23 Acetone	43	2.922	2.922	0.000	98	16041	5.00	6.21	
24 Iodomethane	142	2.970	2.982	-0.012	81	9820	1.00	1.15	
25 Carbon disulfide	76	3.025	3.025	0.000	97	15942	1.00	1.09	
27 3-Chloro-1-propene	41	3.189	3.189	0.000	88	14898	1.00	1.28	
28 Methyl acetate	43	3.232	3.226	0.006	99	42390	5.00	6.01	
30 Methylene Chloride	84	3.335	3.329	0.006	94	11315	1.00	0.9847	
31 2-Methyl-2-propanol	59	3.475	3.481	-0.006	98	8405	10.0	12.7	
32 Methyl tert-butyl ether	73	3.561	3.554	0.007	86	18835	1.00	1.12	
33 trans-1,2-Dichloroethene	96	3.573	3.566	0.007	91	5914	1.00	1.08	
34 Acrylonitrile	53	3.597	3.591	0.006	98	33616	10.0	11.1	
35 Hexane	57	3.786	3.785	0.001	91	10840	1.00	1.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.980	0.000	96	11826	1.00	1.17	
39 Vinyl acetate	43	4.041	4.035	0.006	97	24951	2.00	2.05	
42 2,2-Dichloropropane	77	4.503	4.515	-0.012	76	4988	1.00	1.11	
43 cis-1,2-Dichloroethene	96	4.540	4.540	0.000	79	6486	1.00	1.13	
44 2-Butanone (MEK)	43	4.564	4.558	0.006	97	19368	5.00	5.24	
47 Chlorobromomethane	128	4.771	4.771	0.000	93	2875	1.00	0.99	
49 Tetrahydrofuran	42	4.814	4.801	0.013	75	5570	2.00	2.09	
50 Chloroform	83	4.844	4.850	-0.006	90	10305	1.00	1.10	
51 1,1,1-Trichloroethane	97	4.972	4.978	-0.006	92	8059	1.00	1.06	
52 Cyclohexane	56	5.002	5.002	0.000	36	12560	1.00	1.16	
53 Carbon tetrachloride	117	5.124	5.124	0.000	83	7643	1.00	1.06	
54 1,1-Dichloropropene	75	5.124	5.130	-0.006	82	7313	1.00	1.06	
56 Isobutyl alcohol	43	5.319	5.312	0.007	41	8477	25.0	24.7	M
55 Benzene	78	5.331	5.331	0.000	95	24998	1.00	1.21	
57 1,2-Dichloroethane	62	5.380	5.385	-0.005	95	10200	1.00	1.13	
59 n-Heptane	43	5.532	5.531	0.001	91	12015	1.00	1.17	
60 Trichloroethene	95	5.939	5.945	-0.006	92	6389	1.00	1.18	
62 Methylcyclohexane	83	6.091	6.085	0.006	95	9940	1.00	1.15	
63 1,2-Dichloropropane	63	6.176	6.176	0.000	85	5323	1.00	1.11	
64 Dibromomethane	93	6.316	6.304	0.012	89	3755	1.00	1.19	
66 1,4-Dioxane	88	6.322	6.316	0.006	1	398	20.0	8.91	M
67 Dichlorobromomethane	83	6.462	6.456	0.006	95	6270	1.00	1.03	
69 2-Chloroethyl vinyl ether	63	6.742	6.742	0.000	85	3267	1.00	1.10	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	90	7583	1.00	1.06	
72 4-Methyl-2-pentanone (MIBK)	58	7.016	7.016	0.000	99	12105	5.00	5.09	
73 Toluene	92	7.180	7.180	0.000	98	16896	1.00	0.9597	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	91	5817	1.00	1.00	
77 Ethyl methacrylate	69	7.503	7.496	0.007	93	6062	1.00	1.09	
78 1,1,2-Trichloroethane	83	7.637	7.630	0.007	88	3603	1.00	1.13	
79 Tetrachloroethene	166	7.728	7.721	0.007	93	6629	1.00	1.16	
80 1,3-Dichloropropane	76	7.795	7.794	0.001	94	8260	1.00	1.15	
82 2-Hexanone	43	7.862	7.861	0.001	98	23437	5.00	5.30	
83 Chlorodibromomethane	129	8.032	8.038	-0.006	86	4474	1.00	1.03	
84 Ethylene Dibromide	107	8.148	8.141	0.007	95	4439	1.00	1.03	
85 Chlorobenzene	112	8.628	8.628	0.000	97	15910	1.00	1.17	
89 1,1,1,2-Tetrachloroethane	131	8.725	8.725	0.000	43	4579	1.00	0.9851	
88 Ethylbenzene	91	8.725	8.725	0.000	99	25561	1.00	1.17	
90 m-Xylene & p-Xylene	106	8.841	8.847	-0.006	0	9938	1.00	1.16	
91 o-Xylene	106	9.279	9.273	0.006	93	9360	1.00	1.10	
92 Styrene	104	9.297	9.303	-0.006	94	14338	1.00	1.05	
93 Bromoform	173	9.535	9.540	-0.005	88	2614	1.00	1.02	
95 Isopropylbenzene	105	9.662	9.656	0.006	95	25282	1.00	1.16	
97 Bromobenzene	156	9.997	9.991	0.006	88	6468	1.00	1.11	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.027	0.000	92	6365	1.00	1.16	
99 1,2,3-Trichloropropane	110	10.058	10.064	-0.006	50	2571	1.00	1.23	
101 trans-1,4-Dichloro-2-buten	53	10.070	10.076	-0.006	41	2302	1.00	1.02	
100 N-Propylbenzene	91	10.076	10.076	0.000	97	29693	1.00	1.18	
102 2-Chlorotoluene	126	10.179	10.179	0.000	77	5323	1.00	1.04	
104 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	94	20346	1.00	1.13	
105 4-Chlorotoluene	91	10.289	10.289	0.000	96	18768	1.00	1.08	
106 tert-Butylbenzene	134	10.569	10.569	0.000	93	4409	1.00	1.06	
108 1,2,4-Trimethylbenzene	105	10.617	10.623	-0.006	97	19316	1.00	1.05	

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	10.776	10.781	-0.005	93	24617	1.00	1.11	
110 1,3-Dichlorobenzene	146	10.909	10.909	0.000	95	13789	1.00	1.22	
111 4-Isopropyltoluene	119	10.916	10.915	0.001	96	20608	1.00	1.06	
113 1,4-Dichlorobenzene	146	10.995	10.994	0.001	93	12920	1.00	1.12	
115 n-Butylbenzene	91	11.299	11.299	0.000	97	17619	1.00	1.09	
116 1,2-Dichlorobenzene	146	11.348	11.341	0.007	97	12909	1.00	1.23	
117 1,2-Dibromo-3-Chloropropan	75	12.065	12.059	0.006	63	1235	1.00	1.24	
119 1,2,4-Trichlorobenzene	180	12.747	12.746	0.001	92	5649	1.00	0.9879	
120 Hexachlorobutadiene	225	12.868	12.868	0.000	87	3681	1.00	1.22	
121 Naphthalene	128	12.954	12.959	-0.005	96	16759	1.00	1.04	
122 1,2,3-Trichlorobenzene	180	13.160	13.160	0.000	91	5534	1.00	1.02	
S 125 Total BTEX	1				0			5.60	
S 126 Xylenes, Total	1				0			2.26	
S 123 1,3-Dichloropropene, Total	1				0			2.06	
S 124 1,2-Dichloroethene, Total	1				0			2.21	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053

Amount Added: 1.00

Units: uL

GAS CORP mix_00111

Amount Added: 1.00

Units: uL

N_8260_Surr_00145

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2294.D

Injection Date: 02-Oct-2015 16:15:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

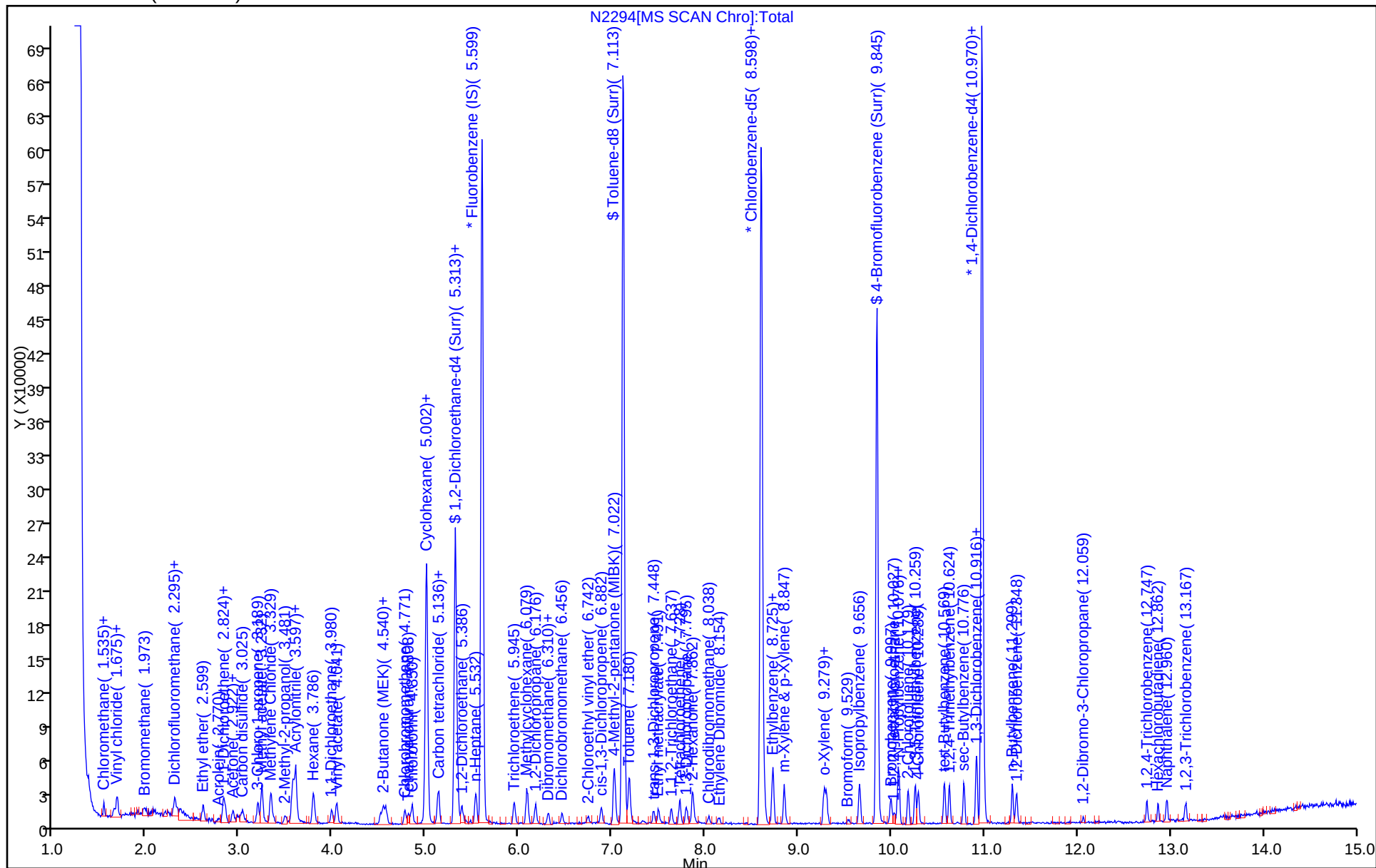
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2294.D

Injection Date: 02-Oct-2015 16:15:30

Instrument ID: HP5973N

Lims ID: IC

Client ID:

Operator ID: gtg

ALS Bottle#: 16

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

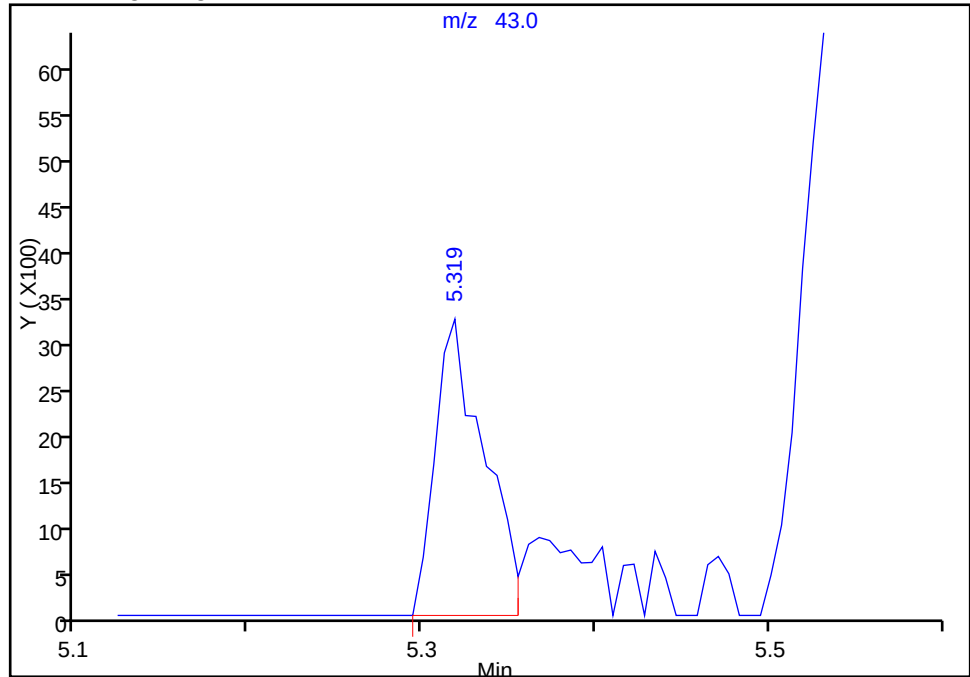
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

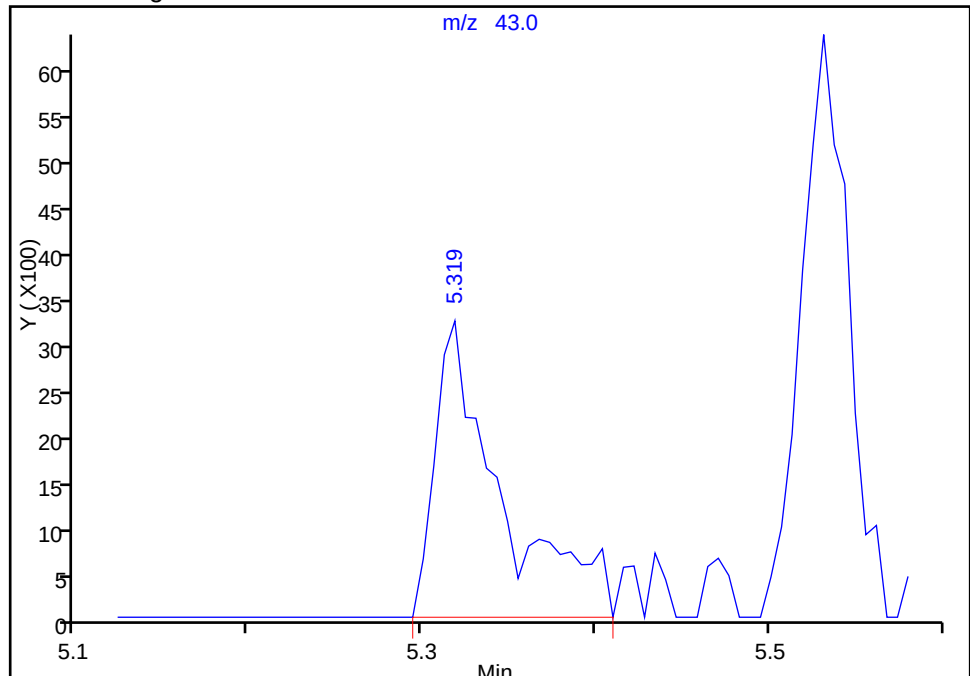
RT: 5.32
Area: 6371
Amount: 20.632718
Amount Units: ug/L

Processing Integration Results



RT: 5.32
Area: 8477
Amount: 24.743464
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:40:40

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2294.D

Injection Date: 02-Oct-2015 16:15:30

Instrument ID: HP5973N

Lims ID: IC

Client ID:

Operator ID: gtg

ALS Bottle#: 16

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

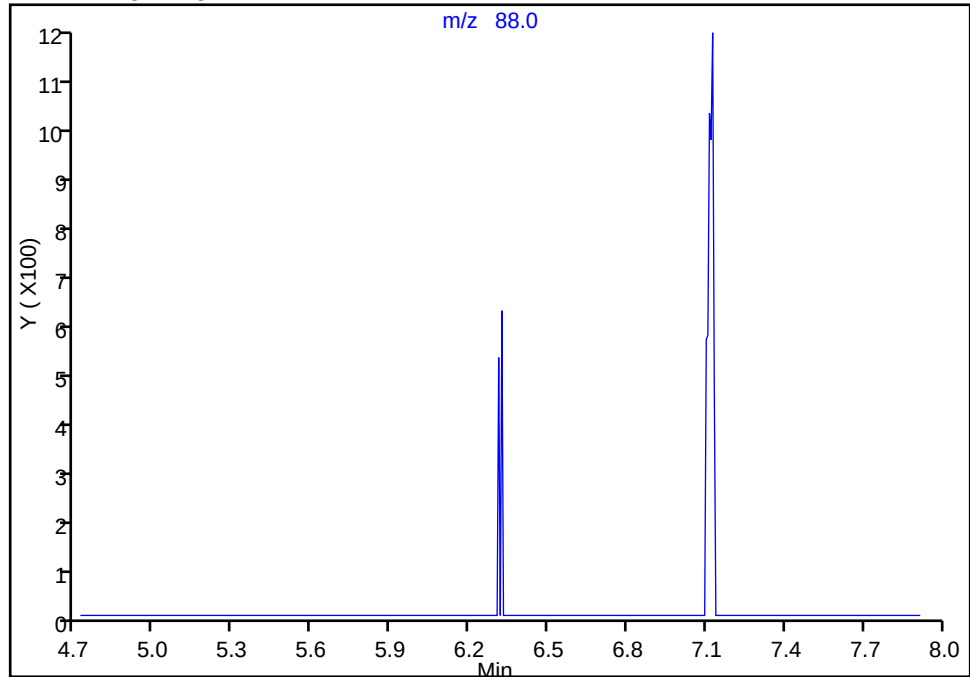
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Not Detected

Expected RT: 6.32

Processing Integration Results



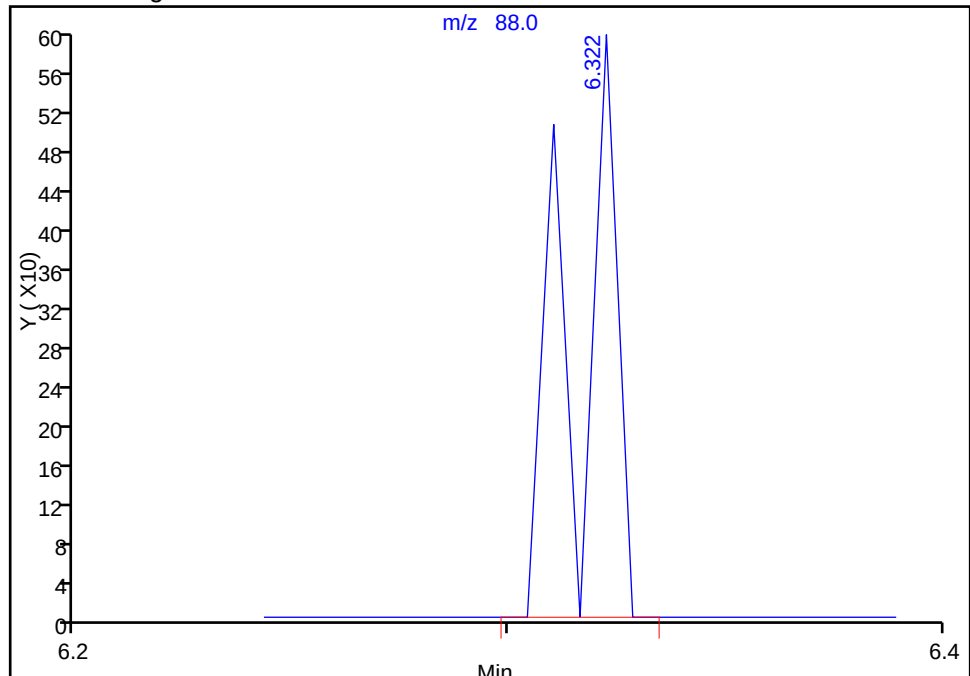
RT: 6.32

Area: 398

Amount: 8.908358

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:48:12

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2295.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 02-Oct-2015 16:42:30 ALS Bottle#: 17 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0046854-008
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:46:02 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 15:41:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.598	0.000	98	502268	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.604	8.597	0.007	87	367141	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	96	191375	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	4.996	0.006	95	115527	25.0	24.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.312	0.001	0	164727	25.0	25.6	
\$ 6 Toluene-d8 (Surr)	98	7.119	7.113	0.006	93	416379	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	136505	25.0	25.2	
11 Dichlorodifluoromethane	85	1.370	1.370	0.000	85	13693	2.00	2.11	
13 Chloromethane	50	1.529	1.534	-0.005	98	17798	2.00	2.19	
14 Vinyl chloride	62	1.638	1.644	-0.006	95	13122	2.00	2.29	
144 Butadiene	54	1.675	1.674	0.001	95	11821	2.00	2.02	
15 Bromomethane	94	1.967	1.966	0.001	94	5814	2.00	2.02	
16 Chloroethane	64	2.076	2.070	0.006	93	5726	2.00	2.11	
17 Dichlorofluoromethane	67	2.289	2.289	0.000	97	16730	2.00	2.07	
18 Trichlorofluoromethane	101	2.301	2.319	-0.018	74	15094	2.00	2.02	
19 Ethyl ether	59	2.599	2.599	0.000	95	11715	2.00	2.05	
20 Acrolein	56	2.770	2.763	0.007	96	7156	10.0	10.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.830	2.818	0.012	74	11148	2.00	2.15	
22 1,1-Dichloroethene	96	2.824	2.818	0.006	95	9986	2.00	2.05	
23 Acetone	43	2.922	2.922	0.000	97	26832	10.0	10.5	
24 Iodomethane	142	2.983	2.982	0.001	97	17695	2.00	2.10	
25 Carbon disulfide	76	3.025	3.025	0.000	98	29775	2.00	2.07	
27 3-Chloro-1-propene	41	3.189	3.189	0.000	88	24115	2.00	2.10	
28 Methyl acetate	43	3.232	3.226	0.006	99	70456	10.0	10.1	
30 Methylene Chloride	84	3.329	3.329	0.000	97	15112	2.00	1.82	
31 2-Methyl-2-propanol	59	3.487	3.481	0.006	94	13901	20.0	21.2	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	97	32909	2.00	1.98	
33 trans-1,2-Dichloroethene	96	3.573	3.566	0.007	94	11824	2.00	2.19	
34 Acrylonitrile	53	3.597	3.591	0.006	97	61845	20.0	20.7	
35 Hexane	57	3.792	3.785	0.007	93	19404	2.00	2.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.986	3.980	0.006	95	20611	2.00	2.08	
39 Vinyl acetate	43	4.035	4.035	0.000	97	48197	4.00	4.02	
42 2,2-Dichloropropane	77	4.510	4.515	-0.005	88	9901	2.00	2.24	
43 cis-1,2-Dichloroethene	96	4.534	4.540	-0.006	83	12114	2.00	2.14	
44 2-Butanone (MEK)	43	4.564	4.558	0.006	97	37342	10.0	10.2	
47 Chlorobromomethane	128	4.765	4.771	-0.006	91	5477	2.00	1.92	
49 Tetrahydrofuran	42	4.802	4.801	0.001	88	10701	4.00	4.08	
50 Chloroform	83	4.850	4.850	0.000	96	18350	2.00	1.98	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	95	16101	2.00	2.15	
52 Cyclohexane	56	5.002	5.002	0.000	40	22159	2.00	2.08	
53 Carbon tetrachloride	117	5.124	5.124	0.000	88	14465	2.00	2.03	
54 1,1-Dichloropropene	75	5.130	5.130	0.000	86	14384	2.00	2.11	
56 Isobutyl alcohol	43	5.319	5.312	0.007	42	16560	50.0	49.0	M
55 Benzene	78	5.331	5.331	0.000	99	42240	2.00	2.08	
57 1,2-Dichloroethane	62	5.386	5.385	0.001	96	18458	2.00	2.08	
59 n-Heptane	43	5.538	5.531	0.007	96	20914	2.00	2.07	
60 Trichloroethene	95	5.939	5.945	-0.006	92	10936	2.00	2.04	
62 Methylcyclohexane	83	6.085	6.085	0.000	95	18583	2.00	2.18	
63 1,2-Dichloropropane	63	6.164	6.176	-0.012	79	9541	2.00	2.03	
64 Dibromomethane	93	6.304	6.304	0.000	93	6152	2.00	1.98	
66 1,4-Dioxane	88	6.322	6.316	0.006	0	1474	40.0	32.4	M
67 Dichlorobromomethane	83	6.462	6.456	0.006	96	11972	2.00	1.99	
69 2-Chloroethyl vinyl ether	63	6.742	6.742	0.000	84	5164	2.00	1.76	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	91	13815	2.00	1.97	
72 4-Methyl-2-pentanone (MIBK)	58	7.016	7.016	0.000	99	24876	10.0	10.3	
73 Toluene	92	7.180	7.180	0.000	98	27835	2.00	1.91	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	93	10877	2.00	1.83	
77 Ethyl methacrylate	69	7.497	7.496	0.001	92	10343	2.00	1.83	
78 1,1,2-Trichloroethane	83	7.630	7.630	0.000	92	7117	2.00	2.19	
79 Tetrachloroethene	166	7.734	7.721	0.013	90	12240	2.00	2.11	
80 1,3-Dichloropropane	76	7.795	7.794	0.001	96	15482	2.00	2.12	
82 2-Hexanone	43	7.862	7.861	0.001	97	44646	10.0	9.92	
83 Chlorodibromomethane	129	8.038	8.038	0.000	86	7895	2.00	1.79	
84 Ethylene Dibromide	107	8.141	8.141	0.000	98	8511	2.00	1.94	
85 Chlorobenzene	112	8.628	8.628	0.000	93	27716	2.00	2.00	
89 1,1,1,2-Tetrachloroethane	131	8.732	8.725	0.007	45	9563	2.00	2.02	
88 Ethylbenzene	91	8.725	8.725	0.000	99	48438	2.00	2.18	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	18204	2.00	2.08	
91 o-Xylene	106	9.279	9.273	0.006	96	17463	2.00	2.02	
92 Styrene	104	9.303	9.303	0.000	94	26437	2.00	1.90	
93 Bromoform	173	9.535	9.540	-0.005	87	4917	2.00	1.88	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	44806	2.00	2.03	
97 Bromobenzene	156	9.997	9.991	0.006	92	13325	2.00	2.25	
98 1,1,2,2-Tetrachloroethane	83	10.033	10.027	0.006	94	11698	2.00	2.10	
99 1,2,3-Trichloropropane	110	10.070	10.064	0.006	42	4403	2.00	2.08	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	40	4231	2.00	1.84	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	53525	2.00	2.09	
102 2-Chlorotoluene	126	10.179	10.179	0.000	96	11543	2.00	2.23	
104 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	94	37661	2.00	2.06	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	38671	2.00	2.19	
106 tert-Butylbenzene	134	10.569	10.569	0.000	94	8252	2.00	1.96	
108 1,2,4-Trimethylbenzene	105	10.623	10.623	0.000	97	37160	2.00	1.99	

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	10.776	10.781	-0.005	93	48372	2.00	2.14	
110 1,3-Dichlorobenzene	146	10.909	10.909	0.000	95	23340	2.00	2.02	
111 4-Isopropyltoluene	119	10.916	10.915	0.001	97	42727	2.00	2.15	
113 1,4-Dichlorobenzene	146	10.995	10.994	0.001	93	24400	2.00	2.08	
115 n-Butylbenzene	91	11.299	11.299	0.000	97	32730	2.00	1.99	
116 1,2-Dichlorobenzene	146	11.341	11.341	0.000	97	22583	2.00	2.11	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.059	0.000	75	1443	2.00	1.43	
119 1,2,4-Trichlorobenzene	180	12.747	12.746	0.001	92	11120	2.00	1.91	
120 Hexachlorobutadiene	225	12.868	12.868	0.000	94	5633	2.00	1.84	
121 Naphthalene	128	12.960	12.959	0.001	96	31550	2.00	1.92	
122 1,2,3-Trichlorobenzene	180	13.166	13.160	0.006	95	9667	2.00	1.76	
S 125 Total BTEX	1				0			10.3	
S 126 Xylenes, Total	1				0			4.10	
S 123 1,3-Dichloropropene, Total	1				0			3.80	
S 124 1,2-Dichloroethene, Total	1				0			4.33	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053

Amount Added: 2.00

Units: uL

GAS CORP mix_00111

Amount Added: 2.00

Units: uL

N_8260_Surr_00145

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2295.D

Operator ID: gta

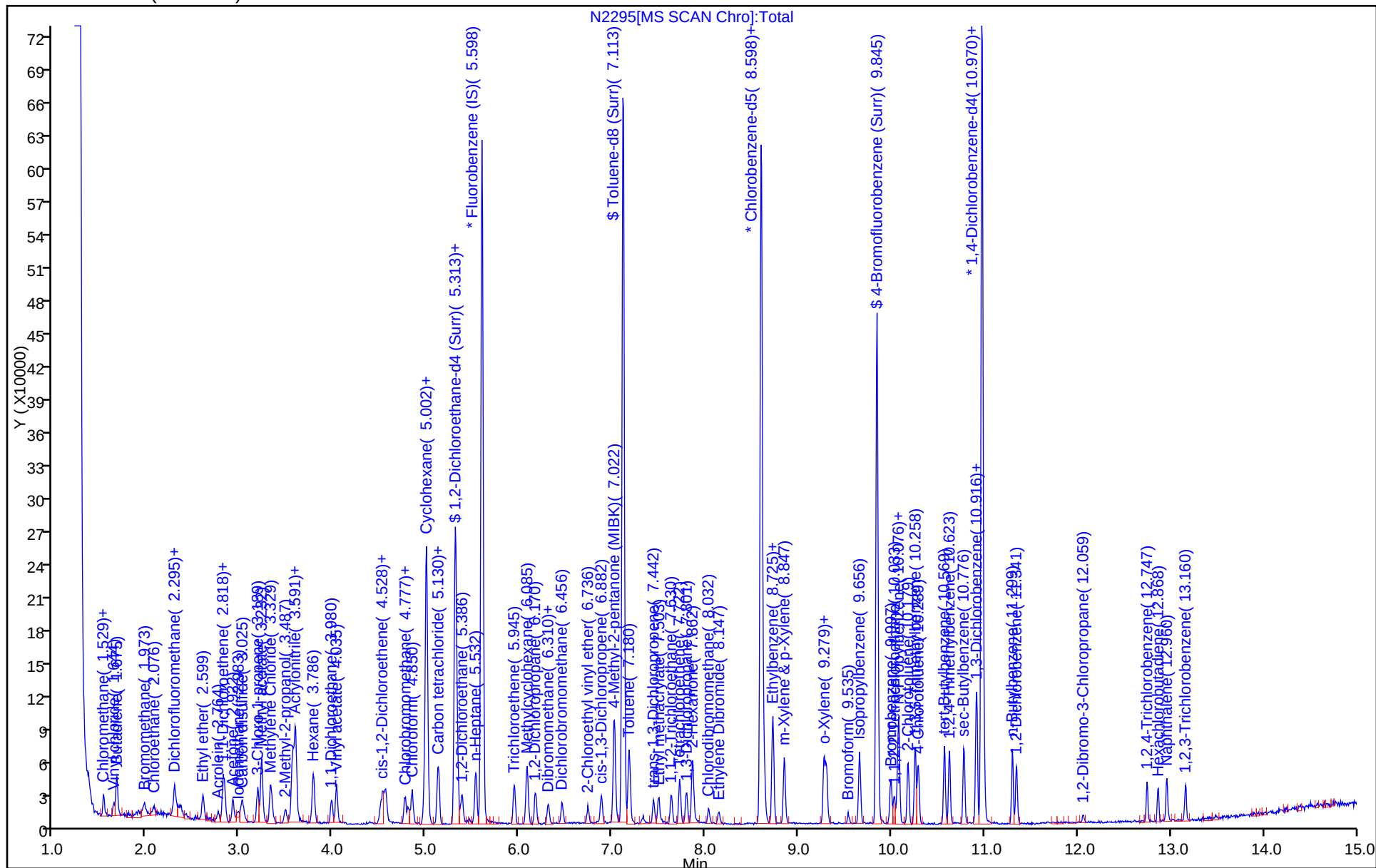
Worklist Smp#: 8

Client ID:

ALS Bottle#: 17

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2295.D

Injection Date: 02-Oct-2015 16:42:30

Instrument ID: HP5973N

Lims ID: IC 2

Client ID:

Operator ID: gtg

ALS Bottle#: 17

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

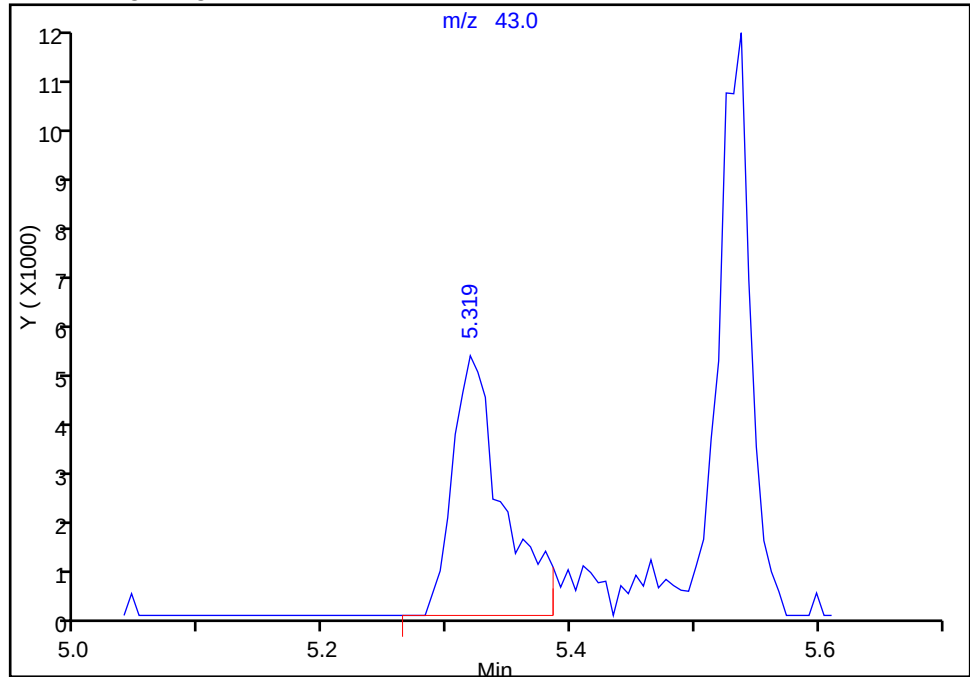
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

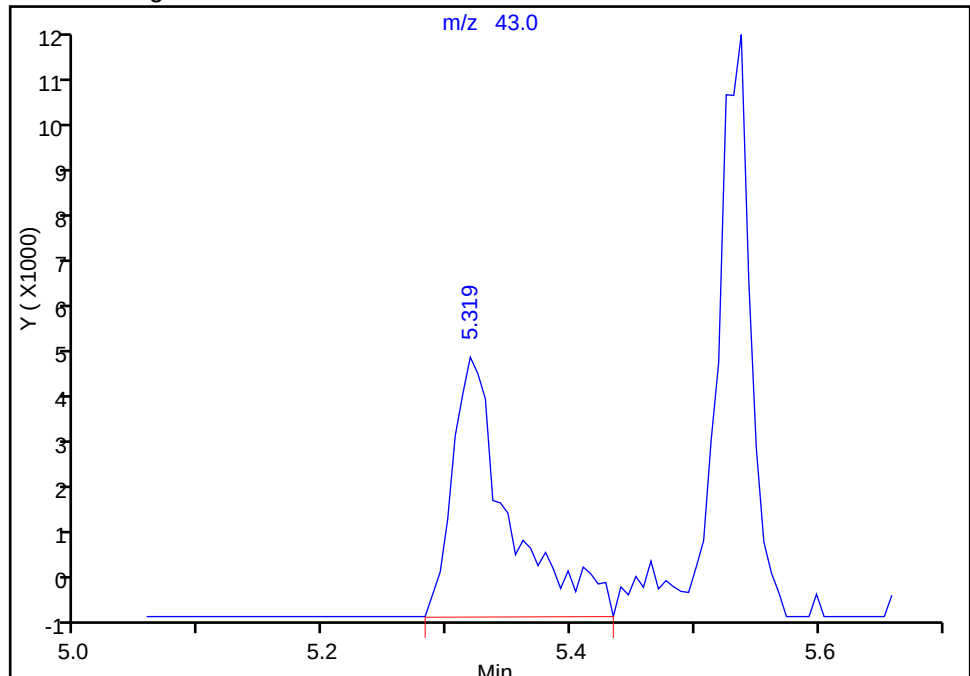
RT: 5.32
Area: 14607
Amount: 46.401250
Amount Units: ug/L

Processing Integration Results



RT: 5.32
Area: 16560
Amount: 49.029985
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:41:46
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2295.D

Injection Date: 02-Oct-2015 16:42:30

Instrument ID: HP5973N

Lims ID: IC 2

Client ID:

Operator ID: gtg

ALS Bottle#: 17

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

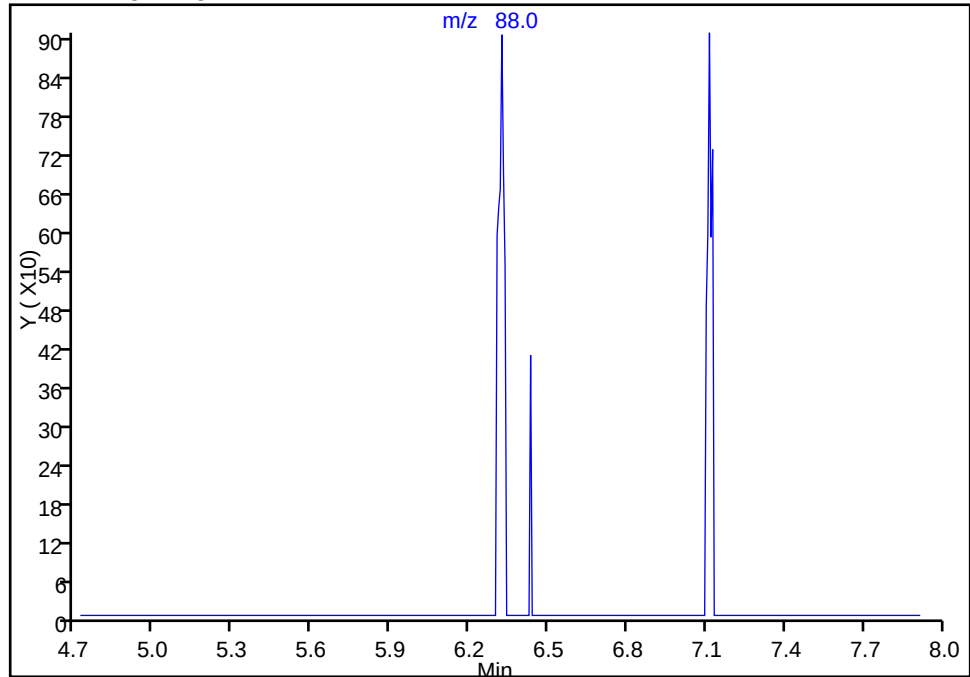
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Not Detected

Expected RT: 6.32

Processing Integration Results



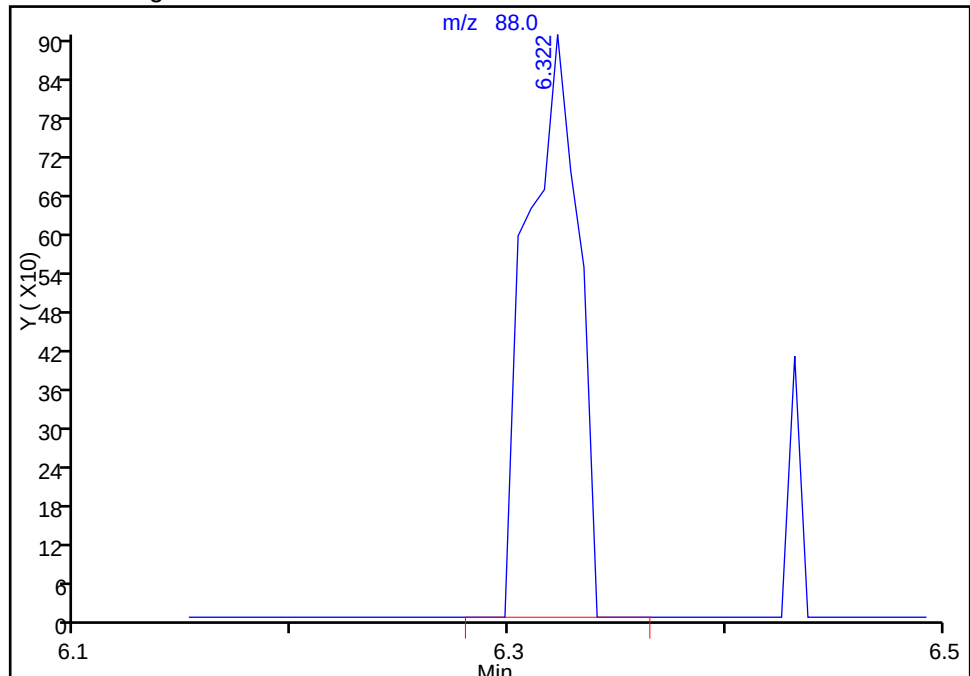
RT: 6.32

Area: 1474

Amount: 32.406357

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:49:16

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2296.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 02-Oct-2015 17:08:30 ALS Bottle#: 18 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0046854-009
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:46:09 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:46:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	498402	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	87	363824	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.971	10.971	0.000	96	200368	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.003	5.003	0.000	94	118853	25.0	25.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.313	0.000	0	162824	25.0	25.5	
\$ 6 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	413895	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	138907	25.0	25.9	
11 Dichlorodifluoromethane	85	1.377	1.377	0.000	98	34950	5.00	5.43	
13 Chloromethane	50	1.529	1.529	0.000	98	40926	5.00	5.07	
14 Vinyl chloride	62	1.638	1.638	0.000	97	29068	5.00	5.12	
144 Butadiene	54	1.675	1.675	0.000	97	31278	5.00	5.37	
15 Bromomethane	94	1.967	1.967	0.000	93	15031	5.00	5.27	
16 Chloroethane	64	2.076	2.076	0.000	95	14826	5.00	5.50	
17 Dichlorofluoromethane	67	2.289	2.289	0.000	97	38097	5.00	4.74	
18 Trichlorofluoromethane	101	2.301	2.301	0.000	81	38612	5.00	5.22	
19 Ethyl ether	59	2.600	2.600	0.000	96	28182	5.00	4.96	
20 Acrolein	56	2.764	2.764	0.000	97	16114	25.0	22.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.825	2.825	0.000	72	27253	5.00	5.29	
22 1,1-Dichloroethene	96	2.819	2.819	0.000	94	24749	5.00	5.12	
23 Acetone	43	2.922	2.922	0.000	97	54688	25.0	21.6	
24 Iodomethane	142	2.977	2.977	0.000	97	41466	5.00	4.96	
25 Carbon disulfide	76	3.019	3.019	0.000	100	72605	5.00	5.09	
27 3-Chloro-1-propene	41	3.190	3.190	0.000	85	54514	5.00	4.79	
28 Methyl acetate	43	3.226	3.226	0.000	100	158859	25.0	23.0	
30 Methylene Chloride	84	3.330	3.330	0.000	95	31063	5.00	5.23	
31 2-Methyl-2-propanol	59	3.488	3.488	0.000	94	24041	50.0	37.0	
32 Methyl tert-butyl ether	73	3.561	3.561	0.000	98	79962	5.00	4.85	
33 trans-1,2-Dichloroethene	96	3.567	3.567	0.000	93	26959	5.00	5.04	
34 Acrylonitrile	53	3.591	3.591	0.000	100	137934	50.0	46.6	
35 Hexane	57	3.786	3.786	0.000	91	43887	5.00	4.90	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.981	3.981	0.000	97	50679	5.00	5.14	
39 Vinyl acetate	43	4.035	4.035	0.000	97	114868	10.0	9.65	
42 2,2-Dichloropropane	77	4.510	4.510	0.000	88	23070	5.00	5.26	
43 cis-1,2-Dichloroethene	96	4.540	4.540	0.000	85	27079	5.00	4.82	
44 2-Butanone (MEK)	43	4.558	4.558	0.000	97	82958	25.0	22.9	
47 Chlorobromomethane	128	4.771	4.771	0.000	95	15429	5.00	5.45	
49 Tetrahydrofuran	42	4.802	4.802	0.000	90	23972	10.0	9.20	
50 Chloroform	83	4.850	4.850	0.000	96	46476	5.00	5.06	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	98	38056	5.00	5.12	
52 Cyclohexane	56	5.003	5.003	0.000	54	54485	5.00	5.15	
53 Carbon tetrachloride	117	5.124	5.124	0.000	97	35415	5.00	5.01	
54 1,1-Dichloropropene	75	5.136	5.136	0.000	92	34709	5.00	5.12	
56 Isobutyl alcohol	43	5.325	5.325	0.000	50	39118	125.0	116.7	
55 Benzene	78	5.331	5.331	0.000	98	100664	5.00	4.99	
57 1,2-Dichloroethane	62	5.386	5.386	0.000	96	42573	5.00	4.83	
59 n-Heptane	43	5.532	5.532	0.000	96	53289	5.00	5.33	
60 Trichloroethene	95	5.946	5.946	0.000	93	25018	5.00	4.71	
62 Methylcyclohexane	83	6.079	6.079	0.000	97	44681	5.00	5.28	
63 1,2-Dichloropropane	63	6.177	6.177	0.000	87	22667	5.00	4.85	
64 Dibromomethane	93	6.304	6.304	0.000	92	15379	5.00	4.98	
66 1,4-Dioxane	88	6.323	6.323	0.000	0	3774	100.0	83.7	M
67 Dichlorobromomethane	83	6.457	6.457	0.000	94	28312	5.00	4.74	
69 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	89	13735	5.00	4.71	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	90	32780	5.00	4.70	
72 4-Methyl-2-pentanone (MIBK)	58	7.022	7.022	0.000	99	59331	25.0	24.7	
73 Toluene	92	7.187	7.187	0.000	97	61513	5.00	4.95	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	97	29304	5.00	4.98	
77 Ethyl methacrylate	69	7.497	7.497	0.000	96	26342	5.00	4.71	
78 1,1,2-Trichloroethane	83	7.631	7.631	0.000	93	16099	5.00	5.00	
79 Tetrachloroethene	166	7.728	7.728	0.000	97	30489	5.00	5.29	
80 1,3-Dichloropropane	76	7.801	7.801	0.000	96	33272	5.00	4.61	
82 2-Hexanone	43	7.862	7.862	0.000	98	113369	25.0	25.4	
83 Chlorodibromomethane	129	8.038	8.038	0.000	91	20345	5.00	4.66	
84 Ethylene Dibromide	107	8.148	8.148	0.000	99	20778	5.00	4.77	
85 Chlorobenzene	112	8.628	8.628	0.000	95	66889	5.00	4.88	
89 1,1,1,2-Tetrachloroethane	131	8.726	8.726	0.000	45	24106	5.00	5.14	
88 Ethylbenzene	91	8.726	8.726	0.000	98	109075	5.00	4.95	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	42228	5.00	4.87	
91 o-Xylene	106	9.273	9.273	0.000	97	43289	5.00	5.06	
92 Styrene	104	9.298	9.298	0.000	94	70827	5.00	5.14	
93 Bromoform	173	9.535	9.535	0.000	92	11403	5.00	4.41	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	113713	5.00	4.91	
97 Bromobenzene	156	9.991	9.991	0.000	91	28689	5.00	4.62	
98 1,1,2,2-Tetrachloroethane	83	10.028	10.028	0.000	94	26356	5.00	4.52	
99 1,2,3-Trichloropropane	110	10.064	10.064	0.000	86	10313	5.00	4.64	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	64	11281	5.00	4.69	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	130244	5.00	4.85	
102 2-Chlorotoluene	126	10.180	10.180	0.000	96	26757	5.00	4.94	
104 1,3,5-Trimethylbenzene	105	10.253	10.253	0.000	95	94363	5.00	4.93	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	95312	5.00	5.16	
106 tert-Butylbenzene	134	10.575	10.575	0.000	94	21755	5.00	4.93	
108 1,2,4-Trimethylbenzene	105	10.624	10.624	0.000	98	97102	5.00	4.96	

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	10.776	10.776	0.000	94	120754	5.00	5.10	
110 1,3-Dichlorobenzene	146	10.910	10.910	0.000	97	59167	5.00	4.90	
111 4-Isopropyltoluene	119	10.916	10.916	0.000	98	103613	5.00	4.99	
113 1,4-Dichlorobenzene	146	10.995	10.995	0.000	96	62612	5.00	5.11	
115 n-Butylbenzene	91	11.299	11.299	0.000	97	88105	5.00	5.13	
116 1,2-Dichlorobenzene	146	11.342	11.342	0.000	97	55421	5.00	4.94	
117 1,2-Dibromo-3-Chloropropan	75	12.066	12.066	0.000	75	4450	5.00	4.20	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	93	30705	5.00	5.05	
120 Hexachlorobutadiene	225	12.869	12.869	0.000	95	16933	5.00	5.28	
121 Naphthalene	128	12.960	12.960	0.000	96	83017	5.00	4.83	
122 1,2,3-Trichlorobenzene	180	13.161	13.161	0.000	94	28409	5.00	4.93	
S 125 Total BTEX	1				0			24.8	
S 126 Xylenes, Total	1				0			9.93	
S 123 1,3-Dichloropropene, Total	1				0			9.68	
S 124 1,2-Dichloroethene, Total	1				0			9.85	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053

Amount Added: 5.00

Units: uL

GAS CORP mix_00111

Amount Added: 5.00

Units: uL

N_8260_Surr_00145

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2296.D

Injection Date: 02-Oct-2015 17:08:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 3

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

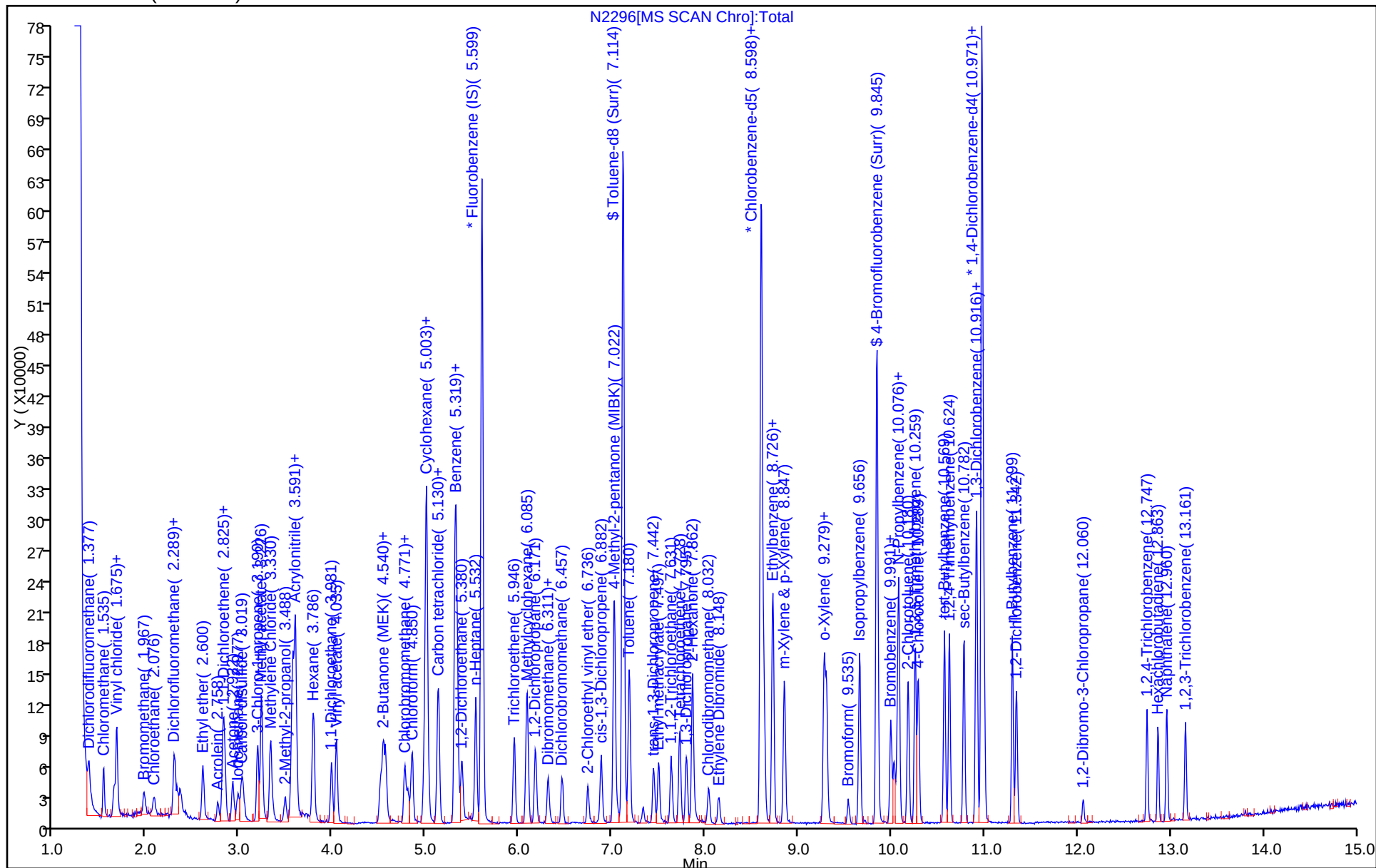
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2296.D

Injection Date: 02-Oct-2015 17:08:30

Instrument ID: HP5973N

Lims ID: IC 3

Client ID:

Operator ID: gtg

ALS Bottle#: 18

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

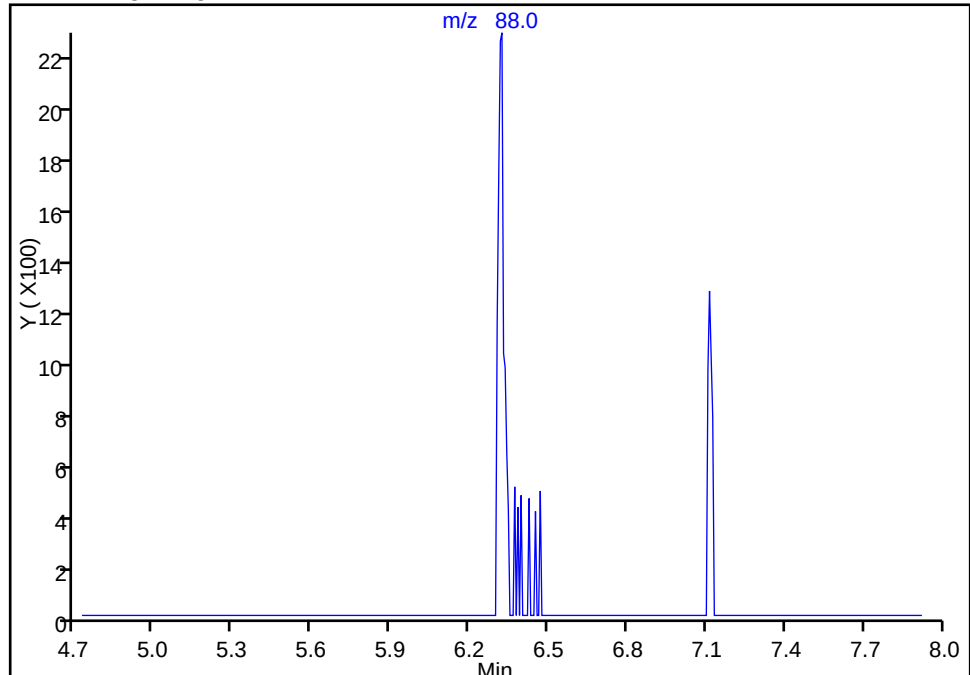
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

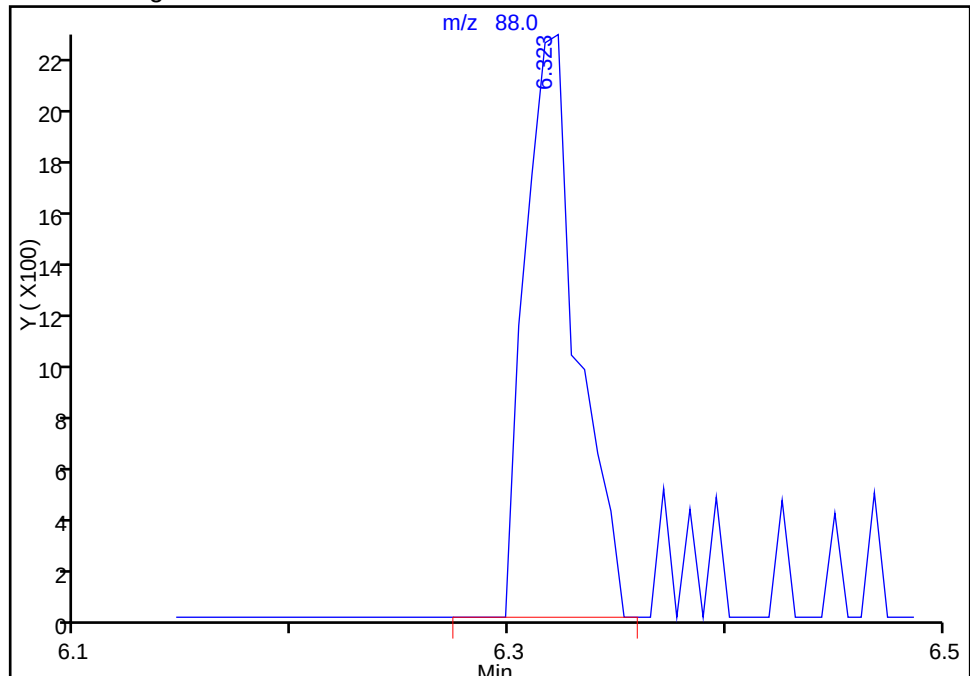
Not Detected

Expected RT: 6.32

Processing Integration Results



Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 10:50:11

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2297.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 02-Oct-2015 17:35:30 ALS Bottle#: 19 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0046854-010
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:46:16 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:46:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	492798	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	87	356495	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.971	-0.001	95	194629	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	5.003	-0.001	91	116832	25.0	25.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.313	0.000	0	159970	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.114	-0.001	93	400198	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	89	131181	25.0	25.0	
11 Dichlorodifluoromethane	85	1.377	1.377	0.000	99	64815	10.0	10.2	
13 Chloromethane	50	1.535	1.529	0.006	100	78031	10.0	9.77	
14 Vinyl chloride	62	1.650	1.638	0.012	98	51922	10.0	9.25	
144 Butadiene	54	1.675	1.675	0.000	97	56722	10.0	9.86	
15 Bromomethane	94	1.967	1.967	0.000	89	26355	10.0	9.34	
16 Chloroethane	64	2.076	2.076	0.000	96	27644	10.0	10.4	
17 Dichlorofluoromethane	67	2.295	2.289	0.006	97	78736	10.0	9.91	
18 Trichlorofluoromethane	101	2.319	2.301	0.018	96	72663	10.0	9.93	
19 Ethyl ether	59	2.599	2.600	-0.001	96	57096	10.0	10.2	
20 Acrolein	56	2.764	2.764	0.000	99	35406	50.0	50.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.818	2.825	-0.007	69	50377	10.0	9.89	
22 1,1-Dichloroethene	96	2.818	2.819	-0.001	94	47020	10.0	9.84	
23 Acetone	43	2.922	2.922	0.000	98	118482	50.0	47.4	
24 Iodomethane	142	2.977	2.977	-0.001	99	82471	10.0	9.97	
25 Carbon disulfide	76	3.025	3.019	0.006	100	137833	10.0	9.77	
27 3-Chloro-1-propene	41	3.189	3.190	-0.001	87	105063	10.0	9.33	
28 Methyl acetate	43	3.232	3.226	0.006	99	342977	50.0	50.3	
30 Methylene Chloride	84	3.329	3.330	-0.001	94	55787	10.0	10.6	
31 2-Methyl-2-propanol	59	3.488	3.488	0.000	96	66782	100.0	103.9	
32 Methyl tert-butyl ether	73	3.561	3.561	0.000	97	167312	10.0	10.3	
33 trans-1,2-Dichloroethene	96	3.567	3.567	0.000	96	52566	10.0	9.93	
34 Acrylonitrile	53	3.591	3.591	0.000	96	302582	100.0	103.4	
35 Hexane	57	3.786	3.786	0.000	93	83278	10.0	9.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.981	0.000	98	96328	10.0	9.89	
39 Vinyl acetate	43	4.035	4.035	0.000	97	236669	20.0	20.1	
42 2,2-Dichloropropane	77	4.510	4.510	0.000	90	44788	10.0	10.3	
43 cis-1,2-Dichloroethene	96	4.540	4.540	0.000	84	55136	10.0	9.92	
44 2-Butanone (MEK)	43	4.564	4.558	0.006	98	175644	50.0	49.1	
47 Chlorobromomethane	128	4.771	4.771	0.000	95	28168	10.0	10.1	
49 Tetrahydrofuran	42	4.802	4.802	0.000	92	50420	20.0	19.6	
50 Chloroform	83	4.850	4.850	0.000	95	88477	10.0	9.75	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	99	74328	10.0	10.1	
52 Cyclohexane	56	5.002	5.003	-0.001	85	103344	10.0	9.89	
53 Carbon tetrachloride	117	5.124	5.124	0.000	97	70141	10.0	10.0	
54 1,1-Dichloropropene	75	5.136	5.136	0.000	93	69348	10.0	10.4	
56 Isobutyl alcohol	43	5.319	5.325	-0.006	87	86890	250.0	262.2	
55 Benzene	78	5.331	5.331	0.000	98	197029	10.0	9.88	
57 1,2-Dichloroethane	62	5.386	5.386	0.000	98	85350	10.0	9.79	
59 n-Heptane	43	5.532	5.532	0.000	96	101128	10.0	10.2	
60 Trichloroethene	95	5.945	5.946	-0.001	96	50778	10.0	9.68	
62 Methylcyclohexane	83	6.079	6.079	0.000	97	86792	10.0	10.4	
63 1,2-Dichloropropane	63	6.176	6.177	-0.001	84	45310	10.0	9.81	
64 Dibromomethane	93	6.310	6.304	0.006	91	30651	10.0	10.0	
66 1,4-Dioxane	88	6.316	6.323	-0.007	38	9143	200.0	207.0	M
67 Dichlorobromomethane	83	6.462	6.457	0.005	96	57542	10.0	9.74	
69 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	91	26622	10.0	9.23	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	89	66919	10.0	9.70	
72 4-Methyl-2-pentanone (MIBK)	58	7.022	7.022	0.000	99	123184	50.0	52.4	
73 Toluene	92	7.180	7.187	-0.007	98	123408	10.0	10.7	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	97	57742	10.0	10.0	
77 Ethyl methacrylate	69	7.497	7.497	0.000	95	53499	10.0	9.77	
78 1,1,2-Trichloroethane	83	7.630	7.631	-0.001	93	30994	10.0	9.82	
79 Tetrachloroethene	166	7.728	7.728	0.000	97	54235	10.0	9.61	
80 1,3-Dichloropropane	76	7.795	7.801	-0.006	96	67325	10.0	9.51	
82 2-Hexanone	43	7.862	7.862	0.000	97	216631	50.0	49.6	
83 Chlorodibromomethane	129	8.038	8.038	0.000	89	40998	10.0	9.58	
84 Ethylene Dibromide	107	8.141	8.148	-0.007	98	42746	10.0	10.0	
85 Chlorobenzene	112	8.628	8.628	0.000	94	127696	10.0	9.50	
89 1,1,1,2-Tetrachloroethane	131	8.725	8.726	-0.001	92	46265	10.0	10.1	
88 Ethylbenzene	91	8.725	8.726	-0.001	98	211278	10.0	9.78	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	84573	10.0	9.95	
91 o-Xylene	106	9.273	9.273	0.000	97	85293	10.0	10.2	
92 Styrene	104	9.303	9.298	0.005	95	138427	10.0	10.2	
93 Bromoform	173	9.535	9.535	0.000	96	24778	10.0	9.78	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	217404	10.0	9.67	
97 Bromobenzene	156	9.991	9.991	0.000	93	60052	10.0	9.95	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.028	-0.001	95	55550	10.0	9.80	
99 1,2,3-Trichloropropane	110	10.064	10.064	0.000	91	20885	10.0	9.68	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	63	22652	10.0	9.70	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	249943	10.0	9.58	
102 2-Chlorotoluene	126	10.179	10.180	-0.001	96	51930	10.0	9.86	
104 1,3,5-Trimethylbenzene	105	10.252	10.253	-0.001	94	185899	10.0	10.0	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	164222	10.0	9.14	
106 tert-Butylbenzene	134	10.575	10.575	0.000	93	43067	10.0	10.0	
108 1,2,4-Trimethylbenzene	105	10.624	10.624	0.000	97	196367	10.0	10.3	

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	10.782	10.776	0.006	94	230783	10.0	10.0	
110 1,3-Dichlorobenzene	146	10.909	10.910	-0.001	98	113017	10.0	9.64	
111 4-Isopropyltoluene	119	10.916	10.916	0.000	97	207837	10.0	10.3	
113 1,4-Dichlorobenzene	146	10.995	10.995	0.000	97	116566	10.0	9.79	
115 n-Butylbenzene	91	11.299	11.299	0.000	98	169042	10.0	10.1	
116 1,2-Dichlorobenzene	146	11.341	11.342	-0.001	98	107880	10.0	9.91	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.066	-0.007	82	9713	10.0	9.45	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	95	58381	10.0	9.88	
120 Hexachlorobutadiene	225	12.862	12.869	-0.007	97	28547	10.0	9.17	
121 Naphthalene	128	12.960	12.960	0.000	97	165598	10.0	9.93	
122 1,2,3-Trichlorobenzene	180	13.160	13.161	-0.001	96	53295	10.0	9.53	
S 125 Total BTEX	1				0			50.5	
S 126 Xylenes, Total	1				0			20.1	
S 123 1,3-Dichloropropene, Total	1				0			19.7	
S 124 1,2-Dichloroethene, Total	1				0			19.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053

Amount Added: 5.00

Units: uL

GAS CORP mix_00111

Amount Added: 5.00

Units: uL

N_8260_Surr_00145

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2297.D

Injection Date: 02-Oct-2015 17:35:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 4

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

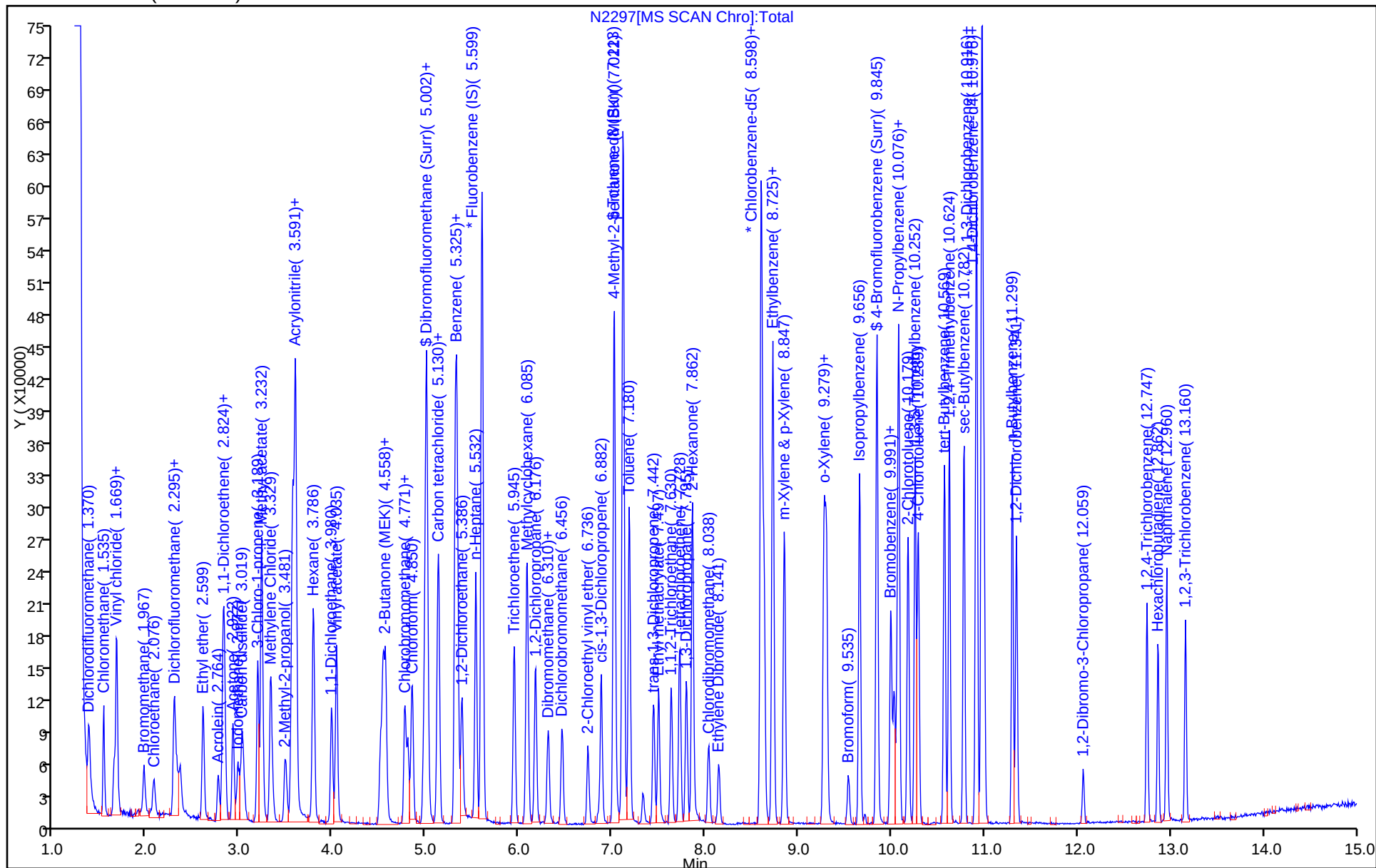
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



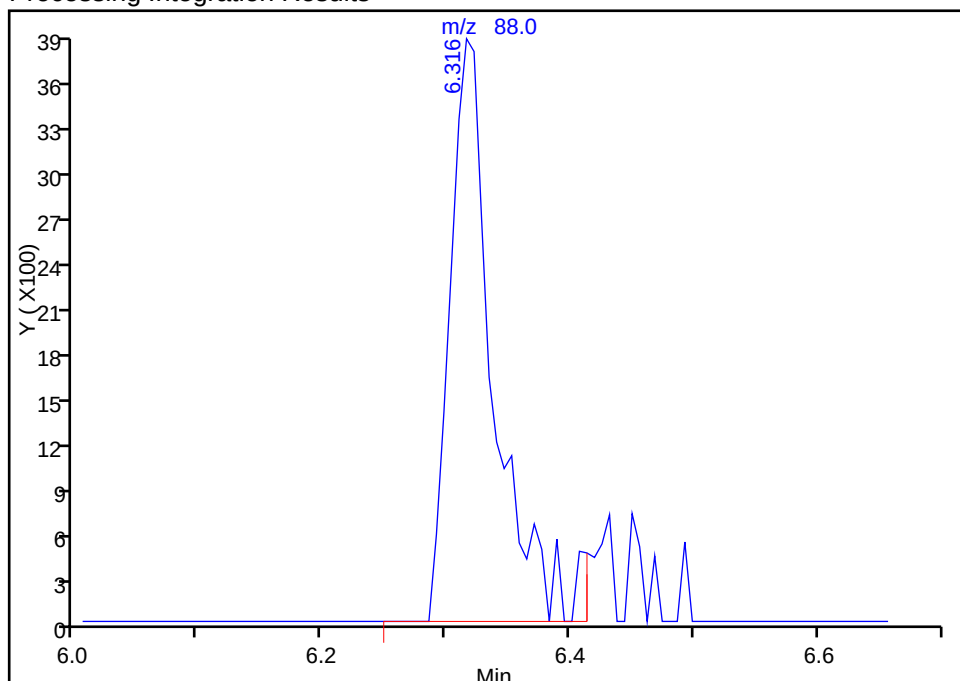
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2297.D
Injection Date: 02-Oct-2015 17:35:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: gtg ALS Bottle#: 19 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

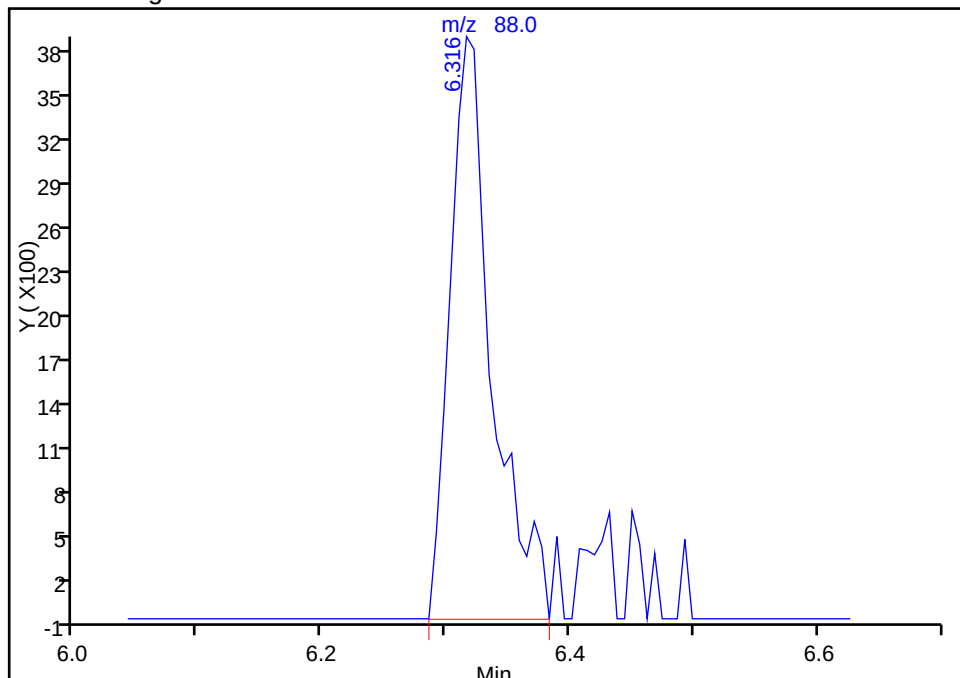
RT: 6.32
Area: 9660
Amount: 201.6518
Amount Units: ug/L

Processing Integration Results



RT: 6.32
Area: 9143
Amount: 207.0146
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:43:23
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2298.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 02-Oct-2015 18:02:30 ALS Bottle#: 20 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0046854-011
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:46:21 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:46:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.598	0.000	98	517493	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	86	380276	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	94	200287	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.996	4.996	0.000	92	117807	25.0	24.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.312	5.312	0.000	0	161879	25.0	24.4	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.113	0.000	93	431457	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	139503	25.0	24.9	
11 Dichlorodifluoromethane	85	1.370	1.370	0.000	99	158924	25.0	23.8	
13 Chloromethane	50	1.534	1.534	0.000	99	186606	25.0	22.2	
14 Vinyl chloride	62	1.644	1.644	0.000	98	130536	25.0	22.1	
144 Butadiene	54	1.674	1.674	0.000	97	139910	25.0	23.2	
15 Bromomethane	94	1.966	1.966	0.000	92	64562	25.0	21.8	
16 Chloroethane	64	2.070	2.070	0.000	97	65702	25.0	23.5	
17 Dichlorofluoromethane	67	2.289	2.289	0.000	97	183775	25.0	22.0	
18 Trichlorofluoromethane	101	2.319	2.319	0.000	97	186784	25.0	24.3	
19 Ethyl ether	59	2.599	2.599	0.000	97	136954	25.0	23.2	
20 Acrolein	56	2.763	2.763	0.000	99	89508	125.0	122.5	
22 1,1-Dichloroethene	96	2.818	2.818	0.000	95	116082	25.0	23.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.818	2.818	0.000	72	124309	25.0	23.2	
23 Acetone	43	2.922	2.922	0.000	97	294644	125.0	112.3	
24 Iodomethane	142	2.982	2.982	0.000	99	200009	25.0	23.0	
25 Carbon disulfide	76	3.025	3.025	0.000	100	353344	25.0	23.8	
27 3-Chloro-1-propene	41	3.189	3.189	0.000	87	269981	25.0	22.8	
28 Methyl acetate	43	3.226	3.226	0.000	99	855548	125.0	119.4	
30 Methylene Chloride	84	3.329	3.329	0.000	98	131932	25.0	25.6	
31 2-Methyl-2-propanol	59	3.481	3.481	0.000	96	162238	250.0	240.5	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	99	412620	25.0	24.1	
33 trans-1,2-Dichloroethene	96	3.566	3.566	0.000	96	127203	25.0	22.9	
34 Acrylonitrile	53	3.591	3.591	0.000	98	727682	250.0	236.9	
35 Hexane	57	3.785	3.785	0.000	95	210645	25.0	22.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.980	0.000	97	241028	25.0	23.6	
39 Vinyl acetate	43	4.035	4.035	0.000	97	622338	50.0	50.3	
42 2,2-Dichloropropane	77	4.515	4.515	0.000	89	107469	25.0	23.6	
43 cis-1,2-Dichloroethene	96	4.540	4.540	0.000	84	136953	25.0	23.5	
44 2-Butanone (MEK)	43	4.558	4.558	0.000	98	468806	125.0	124.8	
47 Chlorobromomethane	128	4.771	4.771	0.000	93	69765	25.0	23.7	
49 Tetrahydrofuran	42	4.801	4.801	0.000	92	130112	50.0	48.1	
50 Chloroform	83	4.850	4.850	0.000	96	218630	25.0	22.9	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	98	182087	25.0	23.6	
52 Cyclohexane	56	5.002	5.002	0.000	96	260899	25.0	23.8	
53 Carbon tetrachloride	117	5.124	5.124	0.000	98	176718	25.0	24.1	
54 1,1-Dichloropropene	75	5.130	5.130	0.000	91	168038	25.0	23.9	
56 Isobutyl alcohol	43	5.312	5.312	0.000	92	225476	625.0	647.9	
55 Benzene	78	5.331	5.331	0.000	98	476456	25.0	22.7	
57 1,2-Dichloroethane	62	5.385	5.385	0.000	98	207301	25.0	22.6	
59 n-Heptane	43	5.531	5.531	0.000	98	240876	25.0	23.2	
60 Trichloroethene	95	5.945	5.945	0.000	95	128751	25.0	23.4	
62 Methylcyclohexane	83	6.085	6.085	0.000	96	211595	25.0	24.1	
63 1,2-Dichloropropane	63	6.176	6.176	0.000	86	118638	25.0	24.5	
64 Dibromomethane	93	6.304	6.304	0.000	94	75890	25.0	23.7	
66 1,4-Dioxane	88	6.316	6.316	0.000	39	27407	500.0	581.7	M
67 Dichlorobromomethane	83	6.456	6.456	0.000	98	158265	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.742	6.742	0.000	90	79605	25.0	26.3	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	90	186859	25.0	25.8	
72 4-Methyl-2-pentanone (MIBK)	58	7.016	7.016	0.000	99	318263	125.0	126.8	
73 Toluene	92	7.180	7.180	0.000	98	309111	25.0	26.0	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	99	167809	25.0	27.3	
77 Ethyl methacrylate	69	7.496	7.496	0.000	95	151186	25.0	25.9	
78 1,1,2-Trichloroethane	83	7.630	7.630	0.000	94	83777	25.0	24.9	
79 Tetrachloroethene	166	7.721	7.721	0.000	97	140319	25.0	23.3	
80 1,3-Dichloropropane	76	7.794	7.794	0.000	97	185753	25.0	24.6	
82 2-Hexanone	43	7.861	7.861	0.000	98	596758	125.0	128.0	
83 Chlorodibromomethane	129	8.038	8.038	0.000	91	118169	25.0	25.9	
84 Ethylene Dibromide	107	8.141	8.141	0.000	97	113599	25.0	24.9	
85 Chlorobenzene	112	8.628	8.628	0.000	94	332362	25.0	23.2	
89 1,1,1,2-Tetrachloroethane	131	8.725	8.725	0.000	94	121238	25.0	24.7	
88 Ethylbenzene	91	8.725	8.725	0.000	98	553398	25.0	24.0	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	218198	25.0	24.1	
91 o-Xylene	106	9.273	9.273	0.000	97	222283	25.0	24.8	
92 Styrene	104	9.303	9.303	0.000	95	357661	25.0	24.8	
93 Bromoform	173	9.540	9.540	0.000	96	66838	25.0	24.7	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	563198	25.0	24.3	
97 Bromobenzene	156	9.991	9.991	0.000	94	147471	25.0	23.7	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.027	0.000	95	141602	25.0	24.3	
99 1,2,3-Trichloropropane	110	10.064	10.064	0.000	89	52391	25.0	23.6	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	74	61750	25.0	25.7	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	635281	25.0	23.7	
102 2-Chlorotoluene	126	10.179	10.179	0.000	96	135016	25.0	24.9	
104 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	94	468409	25.0	24.5	
105 4-Chlorotoluene	91	10.289	10.289	0.000	98	453369	25.0	24.5	
106 tert-Butylbenzene	134	10.569	10.569	0.000	94	107429	25.0	24.3	
108 1,2,4-Trimethylbenzene	105	10.623	10.623	0.000	97	480918	25.0	24.6	

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	10.781	10.781	0.000	94	585637	25.0	24.7	
110 1,3-Dichlorobenzene	146	10.909	10.909	0.000	99	278746	25.0	23.1	
111 4-Isopropyltoluene	119	10.915	10.915	0.000	97	518247	25.0	25.0	
113 1,4-Dichlorobenzene	146	10.994	10.994	0.000	96	287559	25.0	23.5	
115 n-Butylbenzene	91	11.299	11.299	0.000	97	420482	25.0	24.5	
116 1,2-Dichlorobenzene	146	11.341	11.341	0.000	97	260777	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.059	0.000	84	29492	25.0	27.9	
119 1,2,4-Trichlorobenzene	180	12.746	12.746	0.000	95	145812	25.0	24.0	
120 Hexachlorobutadiene	225	12.868	12.868	0.000	98	67727	25.0	21.1	
121 Naphthalene	128	12.959	12.959	0.000	97	438928	25.0	25.6	
122 1,2,3-Trichlorobenzene	180	13.160	13.160	0.000	97	133336	25.0	23.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

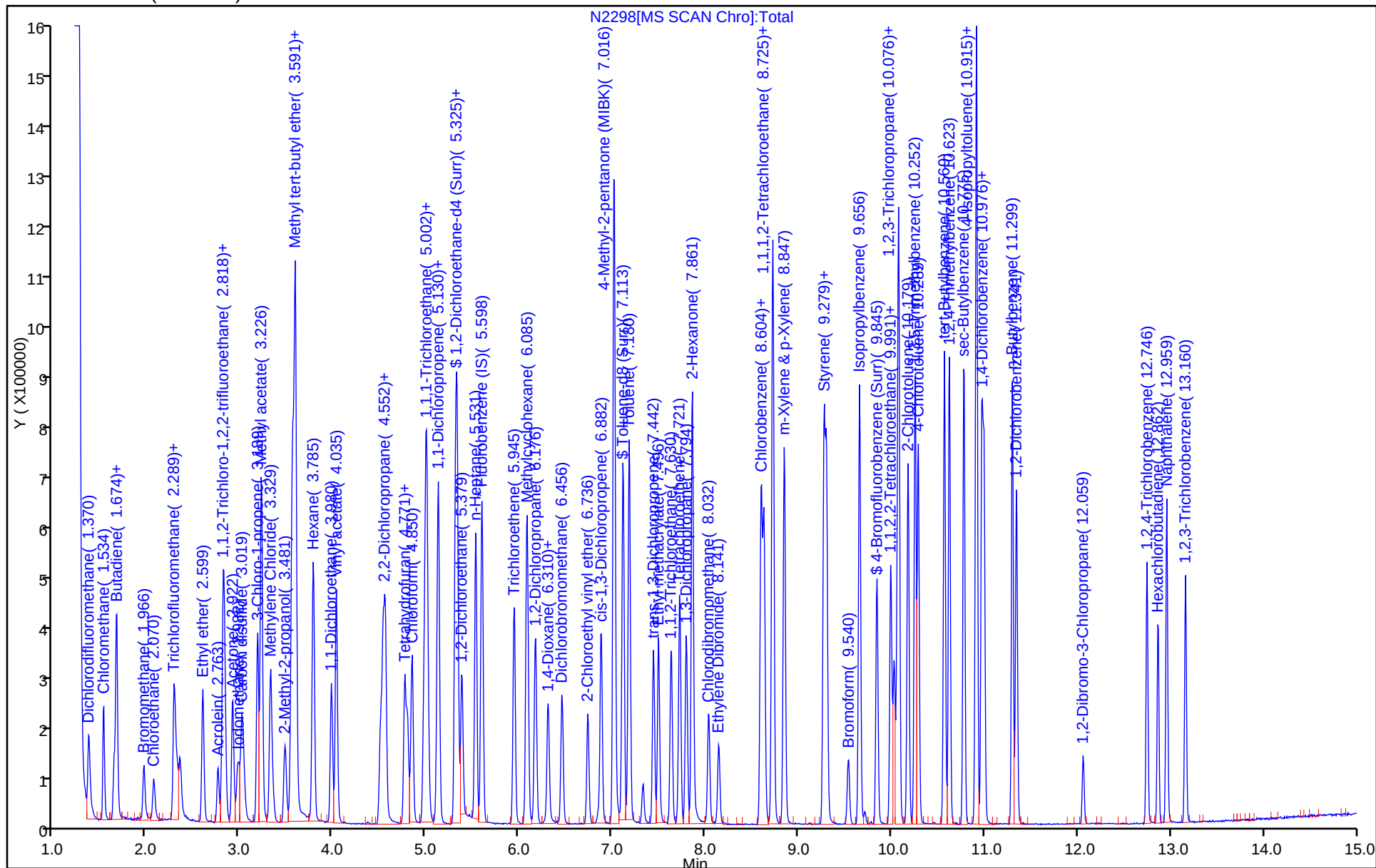
8260 CORP mix_00053	Amount Added: 12.50	Units: uL	
GAS CORP mix_00111	Amount Added: 12.50	Units: uL	
N_8260_Surr_00145	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00004	Amount Added: 1.00	Units: uL	Run Reagent

Operator ID: qtg

Worklist Smp#: 11

ALS Bottle#: 20

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2298.D

Injection Date: 02-Oct-2015 18:02:30

Instrument ID: HP5973N

Lims ID: ICIS 5

Client ID:

Operator ID: gtg

ALS Bottle#:

20

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

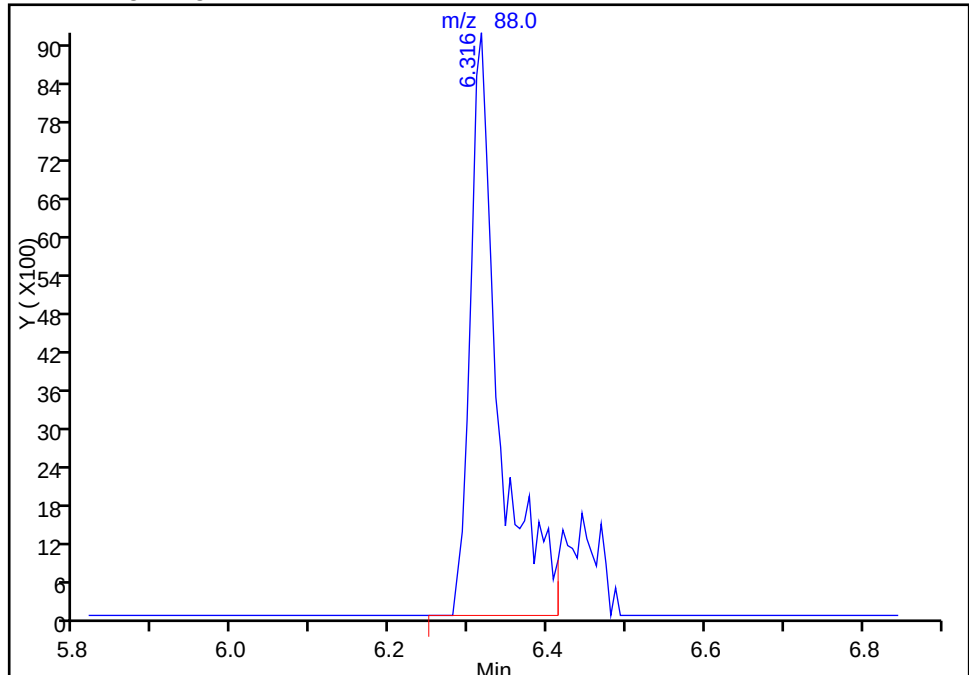
Detector

MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

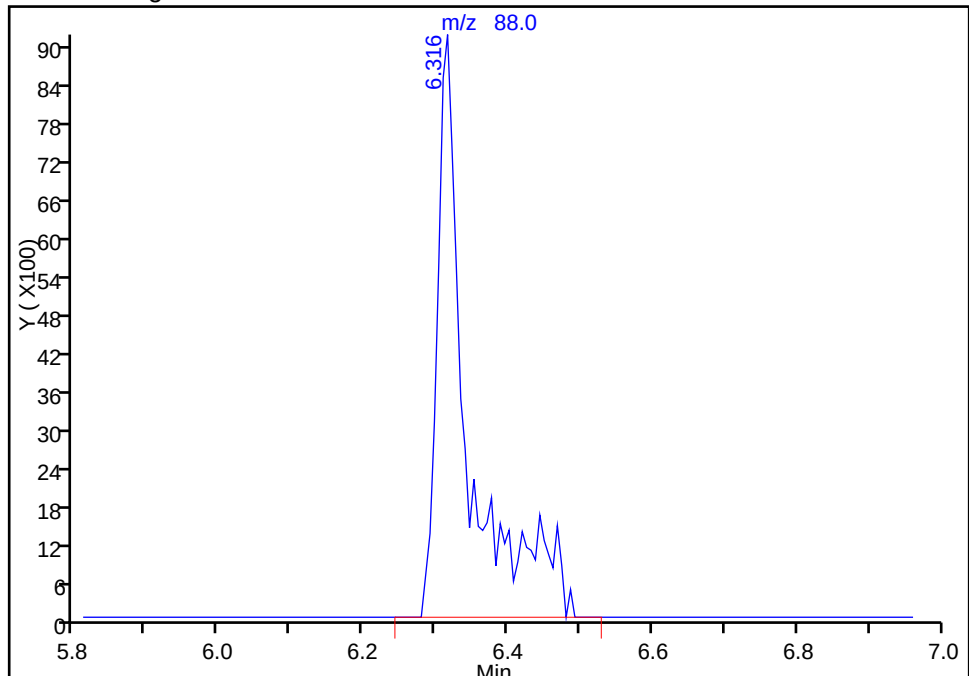
RT: 6.32
Area: 23139
Amount: 531.1367
Amount Units: ug/L

Processing Integration Results



RT: 6.32
Area: 27407
Amount: 581.7390
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:42:12

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2299.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 02-Oct-2015 18:29:30 ALS Bottle#: 21 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0046854-012
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:46:26 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:46:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.598	0.000	98	530998	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.604	8.597	0.007	86	405767	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	94	206239	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	4.996	0.006	92	119751	25.0	24.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.312	0.001	0	168035	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	7.119	7.113	0.006	93	455789	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	91	149618	25.0	25.0	
11 Dichlorodifluoromethane	85	1.376	1.370	0.006	99	316248	50.0	46.1	
13 Chloromethane	50	1.535	1.534	0.001	100	364290	50.0	42.3	
14 Vinyl chloride	62	1.650	1.644	0.006	97	265268	50.0	43.8	
144 Butadiene	54	1.675	1.674	0.001	97	275534	50.0	44.4	
15 Bromomethane	94	1.973	1.966	0.007	92	134085	50.0	44.1	
16 Chloroethane	64	2.082	2.070	0.012	97	135770	50.0	47.2	
17 Dichlorofluoromethane	67	2.295	2.289	0.006	99	357403	50.0	41.8	
18 Trichlorofluoromethane	101	2.319	2.319	0.000	98	371625	50.0	47.2	
19 Ethyl ether	59	2.599	2.599	0.000	98	284367	50.0	47.0	
20 Acrolein	56	2.764	2.763	0.001	98	189335	250.0	252.5	
22 1,1-Dichloroethene	96	2.824	2.818	0.006	96	230153	50.0	44.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.830	2.818	0.012	92	237099	50.0	43.2	
23 Acetone	43	2.922	2.922	0.000	98	601437	250.0	223.5	
24 Iodomethane	142	2.976	2.982	-0.006	99	406129	50.0	45.6	
25 Carbon disulfide	76	3.025	3.025	0.000	100	716544	50.0	47.1	
27 3-Chloro-1-propene	41	3.189	3.189	0.000	88	528123	50.0	43.5	
28 Methyl acetate	43	3.226	3.226	0.000	99	1663962	250.0	226.3	
30 Methylene Chloride	84	3.329	3.329	0.000	96	249605	50.0	48.4	
31 2-Methyl-2-propanol	59	3.481	3.481	0.000	96	360866	500.0	521.2	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	98	832159	50.0	47.4	
33 trans-1,2-Dichloroethene	96	3.573	3.566	0.007	95	245329	50.0	43.0	
34 Acrylonitrile	53	3.597	3.591	0.006	97	1445982	500.0	458.8	
35 Hexane	57	3.786	3.785	0.001	95	430575	50.0	45.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.980	0.000	97	465380	50.0	44.3	
39 Vinyl acetate	43	4.035	4.035	0.000	97	1258746	100.0	99.2	
42 2,2-Dichloropropane	77	4.510	4.515	-0.005	93	213890	50.0	45.8	
43 cis-1,2-Dichloroethene	96	4.540	4.540	0.000	85	269293	50.0	44.9	
44 2-Butanone (MEK)	43	4.558	4.558	0.000	98	967427	250.0	251.0	
47 Chlorobromomethane	128	4.771	4.771	0.000	96	146601	50.0	48.6	
49 Tetrahydrofuran	42	4.795	4.801	-0.006	92	269943	100.0	97.3	
50 Chloroform	83	4.850	4.850	0.000	95	434104	50.0	44.4	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	99	368443	50.0	46.5	
52 Cyclohexane	56	5.002	5.002	0.000	97	517867	50.0	46.0	
53 Carbon tetrachloride	117	5.124	5.124	0.000	98	355946	50.0	47.3	
54 1,1-Dichloropropene	75	5.130	5.130	0.000	89	334657	50.0	46.4	
56 Isobutyl alcohol	43	5.313	5.312	0.001	93	473068	1250.0	1324.9	M
55 Benzene	78	5.331	5.331	0.000	98	946849	50.0	44.1	
57 1,2-Dichloroethane	62	5.386	5.385	0.001	97	418816	50.0	44.6	
59 n-Heptane	43	5.532	5.531	0.001	98	489783	50.0	45.9	
60 Trichloroethene	95	5.945	5.945	0.000	95	256540	50.0	45.4	
62 Methylcyclohexane	83	6.085	6.085	0.000	97	419600	50.0	46.6	
63 1,2-Dichloropropane	63	6.176	6.176	0.000	87	247331	50.0	49.7	
64 Dibromomethane	93	6.310	6.304	0.006	94	158540	50.0	48.2	
66 1,4-Dioxane	88	6.310	6.316	-0.006	40	57411	1000.0	1142.0	M
67 Dichlorobromomethane	83	6.456	6.456	0.000	97	320605	50.0	50.4	
69 2-Chloroethyl vinyl ether	63	6.736	6.742	-0.006	90	173981	50.0	56.0	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	90	390110	50.0	52.5	
72 4-Methyl-2-pentanone (MIBK)	58	7.016	7.016	0.000	98	674008	250.0	251.7	
73 Toluene	92	7.180	7.180	0.000	98	629917	50.0	50.1	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	98	358691	50.0	54.7	
77 Ethyl methacrylate	69	7.497	7.496	0.001	94	337572	50.0	54.1	
78 1,1,2-Trichloroethane	83	7.630	7.630	0.000	94	174661	50.0	48.6	
79 Tetrachloroethene	166	7.728	7.721	0.007	97	281608	50.0	43.8	
80 1,3-Dichloropropane	76	7.795	7.794	0.001	97	383476	50.0	47.6	
82 2-Hexanone	43	7.862	7.861	0.001	98	1271664	250.0	255.6	
83 Chlorodibromomethane	129	8.038	8.038	0.000	91	260119	50.0	53.4	
84 Ethylene Dibromide	107	8.141	8.141	0.000	98	244191	50.0	50.3	
85 Chlorobenzene	112	8.628	8.628	0.000	94	684435	50.0	44.7	
89 1,1,1,2-Tetrachloroethane	131	8.725	8.725	0.000	93	257732	50.0	49.3	
88 Ethylbenzene	91	8.725	8.725	0.000	99	1136756	50.0	46.2	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	471253	50.0	48.7	
91 o-Xylene	106	9.279	9.273	0.006	96	472556	50.0	49.5	
92 Styrene	104	9.303	9.303	0.000	96	761577	50.0	49.5	
93 Bromoform	173	9.535	9.540	-0.005	97	153074	50.0	53.1	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	1177121	50.0	49.4	
97 Bromobenzene	156	9.997	9.991	0.006	93	304234	50.0	47.6	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.027	0.000	95	290549	50.0	48.4	
99 1,2,3-Trichloropropane	110	10.064	10.064	0.000	90	110041	50.0	48.1	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	73	131007	50.0	52.9	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	1304179	50.0	47.2	
102 2-Chlorotoluene	126	10.179	10.179	0.000	96	276290	50.0	49.5	
104 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	95	959912	50.0	48.8	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	918578	50.0	48.3	
106 tert-Butylbenzene	134	10.569	10.569	0.000	93	229336	50.0	50.5	
108 1,2,4-Trimethylbenzene	105	10.624	10.623	0.001	97	987652	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.782	10.781	0.001	94	1192552	50.0	48.9	
110 1,3-Dichlorobenzene	146	10.909	10.909	0.000	98	565104	50.0	45.5	
111 4-Isopropyltoluene	119	10.916	10.915	0.001	97	1048739	50.0	49.1	
113 1,4-Dichlorobenzene	146	10.995	10.994	0.001	94	580021	50.0	45.9	
115 n-Butylbenzene	91	11.299	11.299	0.000	97	858232	50.0	48.5	
116 1,2-Dichlorobenzene	146	11.341	11.341	0.000	98	538138	50.0	46.6	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.059	0.000	86	58772	50.0	53.9	
119 1,2,4-Trichlorobenzene	180	12.747	12.746	0.001	96	301717	50.0	48.2	
120 Hexachlorobutadiene	225	12.868	12.868	0.000	97	143972	50.0	43.6	
121 Naphthalene	128	12.960	12.959	0.001	97	890844	50.0	50.4	
122 1,2,3-Trichlorobenzene	180	13.160	13.160	0.000	97	278638	50.0	47.0	
S 125 Total BTEX	1				0			238.6	
S 126 Xylenes, Total	1				0			98.2	
S 123 1,3-Dichloropropene, Total	1				0			107.2	
S 124 1,2-Dichloroethene, Total	1				0			88.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053

Amount Added: 25.00

Units: uL

GAS CORP mix_00111

Amount Added: 25.00

Units: uL

N_8260_Surr_00145

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2299.D

Injection Date: 02-Oct-2015 18:29:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 6

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

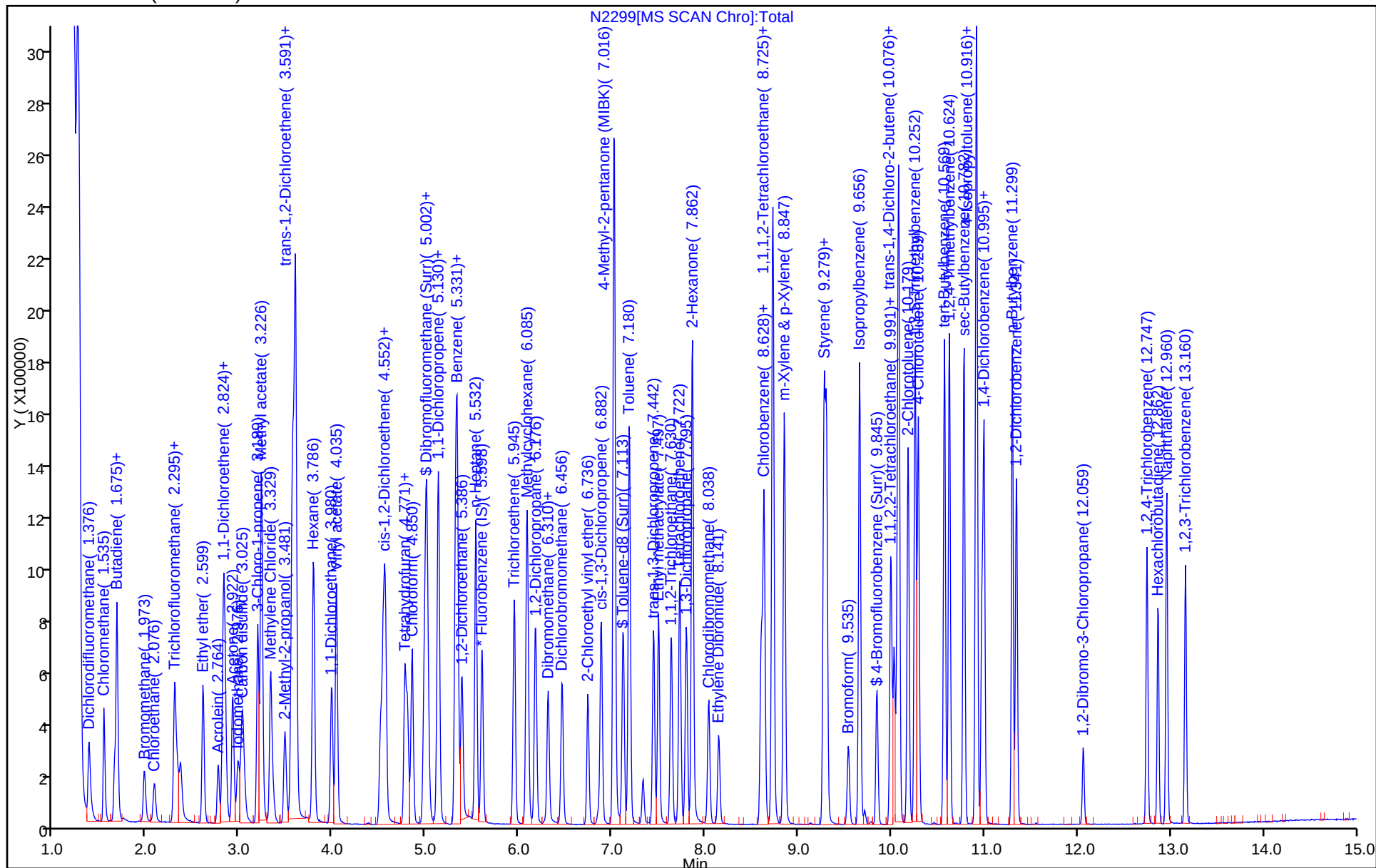
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2299.D

Injection Date: 02-Oct-2015 18:29:30

Instrument ID: HP5973N

Lims ID: IC 6

Client ID:

Operator ID: gtg

ALS Bottle#: 21

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

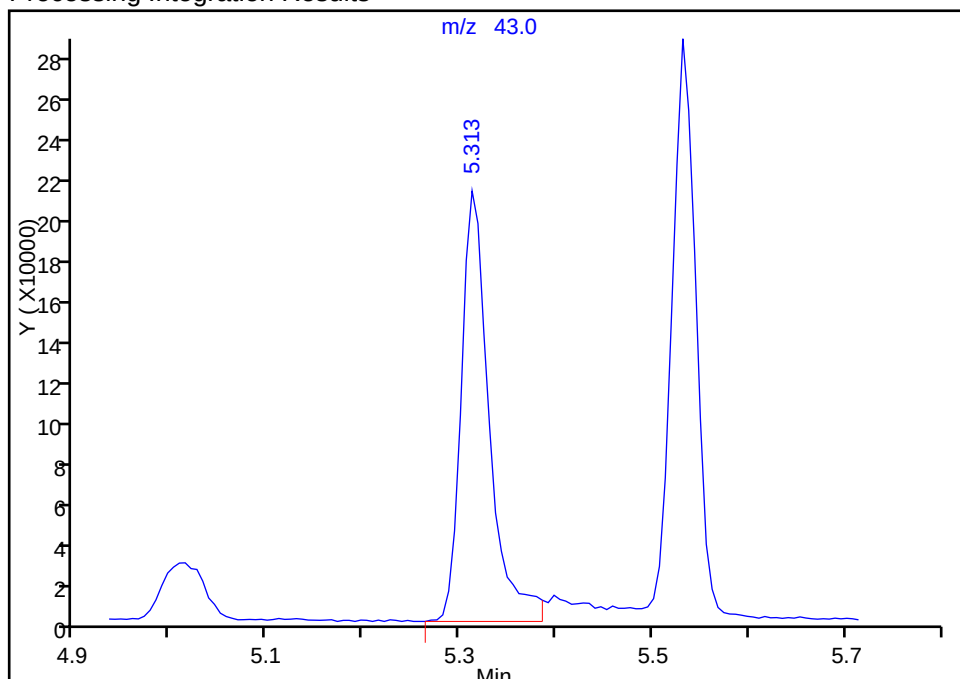
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

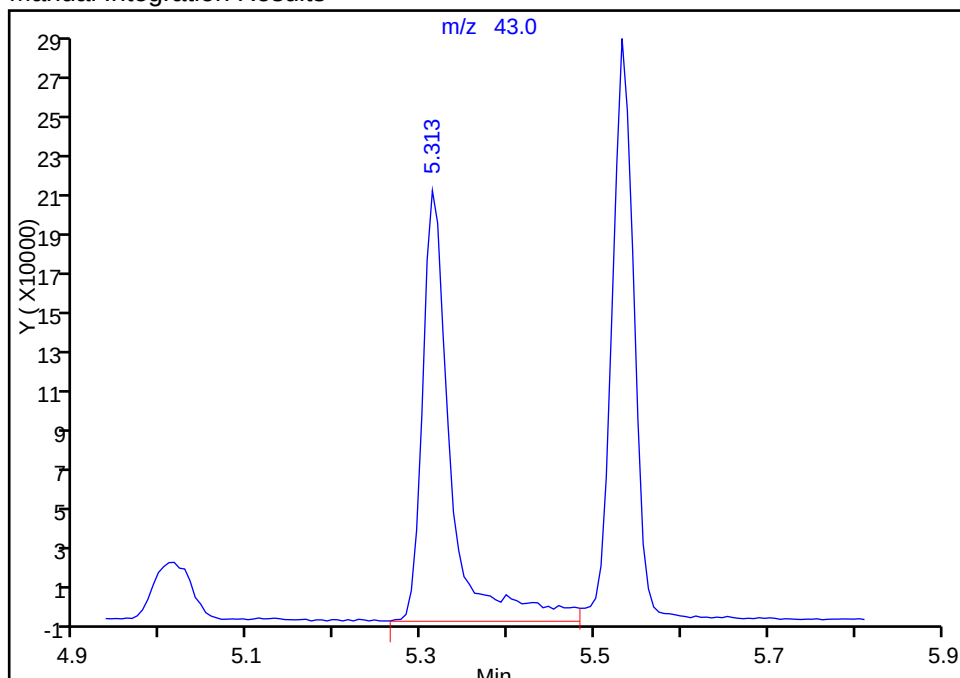
RT: 5.31
Area: 424018
Amount: 1254.6176
Amount Units: ug/L

Processing Integration Results



RT: 5.31
Area: 473068
Amount: 1324.8528
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:44:52

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2299.D

Injection Date: 02-Oct-2015 18:29:30

Instrument ID: HP5973N

Lims ID: IC 6

Client ID:

Operator ID: gtg

ALS Bottle#:

21

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

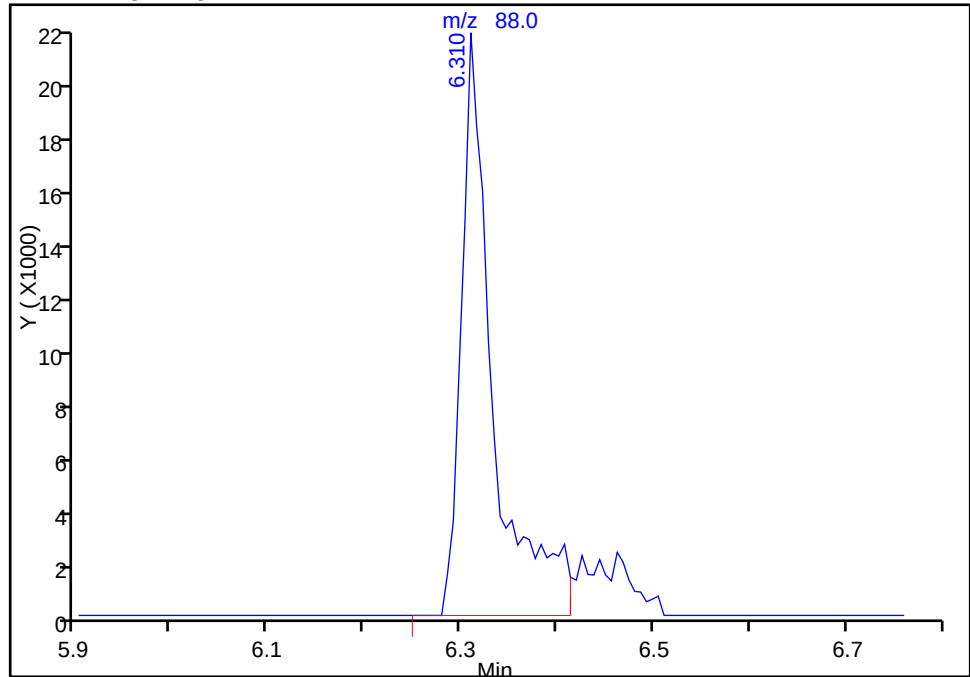
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

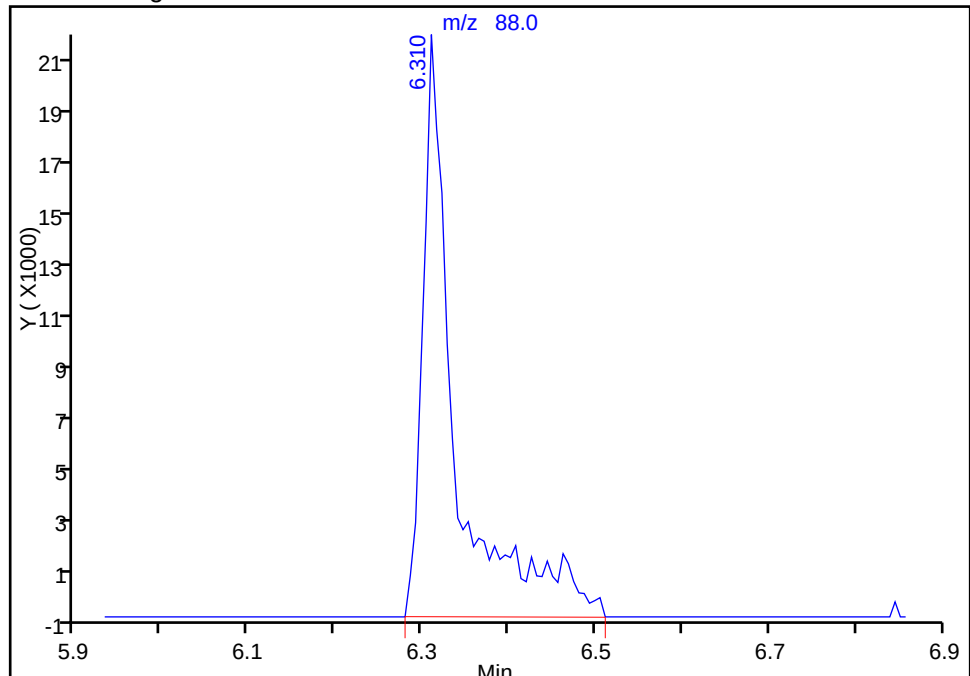
RT: 6.31
Area: 49798
Amount: 944.1448
Amount Units: ug/L

Processing Integration Results



RT: 6.31
Area: 57411
Amount: 1142.0471
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:44:52

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2300.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 02-Oct-2015 18:55:30 ALS Bottle#: 22 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0046854-013
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:46:32 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:46:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.598	0.001	98	542325	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.597	0.001	87	404777	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.977	10.970	0.007	95	202649	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	4.996	0.006	91	122174	25.0	24.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.312	0.001	0	167291	25.0	24.1	
\$ 6 Toluene-d8 (Surr)	98	7.120	7.113	0.007	93	445470	25.0	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	144944	25.0	24.3	
11 Dichlorodifluoromethane	85	1.371	1.370	0.001	100	641984	100.0	91.7	
13 Chloromethane	50	1.535	1.534	0.001	99	720091	100.0	81.9	
14 Vinyl chloride	62	1.650	1.644	0.006	99	530827	100.0	85.9	
144 Butadiene	54	1.669	1.674	-0.005	97	576412	100.0	91.0	
15 Bromomethane	94	1.967	1.966	0.001	92	279515	100.0	90.0	
16 Chloroethane	64	2.070	2.070	0.000	97	273690	100.0	93.2	
17 Dichlorofluoromethane	67	2.289	2.289	0.000	99	742180	100.0	84.9	
18 Trichlorofluoromethane	101	2.320	2.319	0.001	99	779182	100.0	96.8	
19 Ethyl ether	59	2.599	2.599	0.000	98	595009	100.0	96.2	
20 Acrolein	56	2.758	2.763	-0.005	99	389247	500.0	508.3	
22 1,1-Dichloroethene	96	2.818	2.818	0.000	95	483648	100.0	92.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.825	2.818	0.007	87	498608	100.0	89.0	
23 Acetone	43	2.916	2.922	-0.006	98	1192003	500.0	433.7	
24 Iodomethane	142	2.977	2.982	-0.005	99	852601	100.0	93.7	
25 Carbon disulfide	76	3.019	3.025	-0.006	100	1486990	100.0	95.7	
27 3-Chloro-1-propene	41	3.190	3.189	0.001	87	1098710	100.0	88.6	
28 Methyl acetate	43	3.226	3.226	0.000	98	3212582	500.0	427.7	
30 Methylene Chloride	84	3.329	3.329	0.000	97	520441	100.0	100.3	
31 2-Methyl-2-propanol	59	3.482	3.481	0.001	97	716262	1000.0	1013.0	
32 Methyl tert-butyl ether	73	3.555	3.554	0.001	99	1721491	100.0	95.9	
33 trans-1,2-Dichloroethene	96	3.567	3.566	0.001	96	514351	100.0	88.3	
34 Acrylonitrile	53	3.591	3.591	0.000	97	2834984	1000.0	880.7	
35 Hexane	57	3.786	3.785	0.001	95	865204	100.0	88.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.980	0.000	97	967913	100.0	90.3	
39 Vinyl acetate	43	4.035	4.035	0.000	98	2530813	200.0	195.3	
42 2,2-Dichloropropane	77	4.510	4.515	-0.005	94	432421	100.0	90.6	
43 cis-1,2-Dichloroethene	96	4.534	4.540	-0.006	83	554888	100.0	90.7	
44 2-Butanone (MEK)	43	4.558	4.558	0.000	99	1818223	500.0	461.9	
47 Chlorobromomethane	128	4.771	4.771	0.000	95	300769	100.0	97.7	
49 Tetrahydrofuran	42	4.796	4.801	-0.005	91	555192	200.0	195.9	
50 Chloroform	83	4.844	4.850	-0.006	96	893626	100.0	89.4	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	99	760129	100.0	93.9	
52 Cyclohexane	56	5.002	5.002	0.000	98	1060538	100.0	92.2	
53 Carbon tetrachloride	117	5.124	5.124	0.000	99	744635	100.0	96.8	
54 1,1-Dichloropropene	75	5.130	5.130	0.000	90	690486	100.0	93.7	
56 Isobutyl alcohol	43	5.313	5.312	0.001	94	866622	2500.0	2376.3	M
55 Benzene	78	5.331	5.331	0.000	98	1896579	100.0	86.4	
57 1,2-Dichloroethane	62	5.380	5.385	-0.005	97	855599	100.0	89.1	
59 n-Heptane	43	5.532	5.531	0.001	97	944215	100.0	86.7	
60 Trichloroethene	95	5.945	5.945	0.000	94	520894	100.0	90.2	
62 Methylcyclohexane	83	6.085	6.085	0.000	97	868052	100.0	94.3	
63 1,2-Dichloropropane	63	6.171	6.176	-0.006	88	488884	100.0	96.1	
64 Dibromomethane	93	6.304	6.304	0.000	93	322292	100.0	95.9	
66 1,4-Dioxane	88	6.310	6.316	-0.006	39	101494	2000.0	2023.9	M
67 Dichlorobromomethane	83	6.456	6.456	0.000	97	669289	100.0	102.9	
69 2-Chloroethyl vinyl ether	63	6.736	6.742	-0.006	92	348545	100.0	109.8	
71 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	90	798549	100.0	105.2	
72 4-Methyl-2-pentanone (MIBK)	58	7.022	7.016	0.006	96	1318087	500.0	493.5	
73 Toluene	92	7.180	7.180	0.000	98	1226916	100.0	98.4	
75 trans-1,3-Dichloropropene	75	7.442	7.442	0.000	98	726435	100.0	111.0	
77 Ethyl methacrylate	69	7.497	7.496	0.001	94	662202	100.0	106.5	
78 1,1,2-Trichloroethane	83	7.631	7.630	0.001	94	349000	100.0	97.3	
79 Tetrachloroethene	166	7.728	7.721	0.007	98	561579	100.0	87.6	
80 1,3-Dichloropropane	76	7.795	7.794	0.001	98	747280	100.0	93.0	
82 2-Hexanone	43	7.862	7.861	0.001	97	2301321	500.0	463.6	
83 Chlorodibromomethane	129	8.038	8.038	0.000	90	538160	100.0	110.7	
84 Ethylene Dibromide	107	8.142	8.141	0.001	98	485212	100.0	100.1	
85 Chlorobenzene	112	8.628	8.628	0.000	93	1339374	100.0	87.8	
89 1,1,1,2-Tetrachloroethane	131	8.726	8.725	0.001	95	523082	100.0	100.3	
88 Ethylbenzene	91	8.726	8.725	0.001	98	2180501	100.0	88.9	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	922606	100.0	95.6	
91 o-Xylene	106	9.273	9.273	0.000	97	922019	100.0	96.8	
92 Styrene	104	9.304	9.303	0.001	95	1484564	100.0	96.8	
93 Bromoform	173	9.535	9.540	-0.005	97	325126	100.0	113.0	
95 Isopropylbenzene	105	9.656	9.656	0.000	97	2216029	100.0	94.6	
97 Bromobenzene	156	9.991	9.991	0.000	93	596707	100.0	95.0	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.027	0.000	96	569426	100.0	96.5	
99 1,2,3-Trichloropropane	110	10.064	10.064	0.000	91	208357	100.0	92.8	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	78	259248	100.0	106.6	
100 N-Propylbenzene	91	10.076	10.076	0.000	97	2419915	100.0	89.1	
102 2-Chlorotoluene	126	10.180	10.179	0.001	96	540589	100.0	98.6	
104 1,3,5-Trimethylbenzene	105	10.253	10.252	0.001	95	1780926	100.0	92.1	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	1662803	100.0	88.9	
106 tert-Butylbenzene	134	10.569	10.569	0.000	94	429877	100.0	96.3	
108 1,2,4-Trimethylbenzene	105	10.624	10.623	0.001	98	1803286	100.0	91.0	

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	10.776	10.781	-0.005	95	2148862	100.0	89.7	
110 1,3-Dichlorobenzene	146	10.910	10.909	0.001	98	1061611	100.0	87.0	
111 4-Isopropyltoluene	119	10.916	10.915	0.001	96	1904789	100.0	90.7	
113 1,4-Dichlorobenzene	146	10.995	10.994	0.001	94	1107573	100.0	89.3	
115 n-Butylbenzene	91	11.299	11.299	0.000	96	1588024	100.0	91.3	
116 1,2-Dichlorobenzene	146	11.342	11.341	0.001	98	1009437	100.0	89.0	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.059	0.000	84	114051	100.0	106.5	
119 1,2,4-Trichlorobenzene	180	12.747	12.746	0.001	95	698338	100.0	113.5	
120 Hexachlorobutadiene	225	12.869	12.868	0.001	97	346812	100.0	106.9	
121 Naphthalene	128	12.960	12.959	0.001	98	1899918	100.0	109.4	
122 1,2,3-Trichlorobenzene	180	13.161	13.160	0.001	96	677805	100.0	116.4	
S 125 Total BTEX	1				0			466.1	
S 126 Xylenes, Total	1				0			192.4	
S 123 1,3-Dichloropropene, Total	1				0			216.2	
S 124 1,2-Dichloroethene, Total	1				0			179.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00053

Amount Added: 50.00

Units: uL

GAS CORP mix_00111

Amount Added: 50.00

Units: uL

N_8260_Surr_00145

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2300.D

Injection Date: 02-Oct-2015 18:55:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 7

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

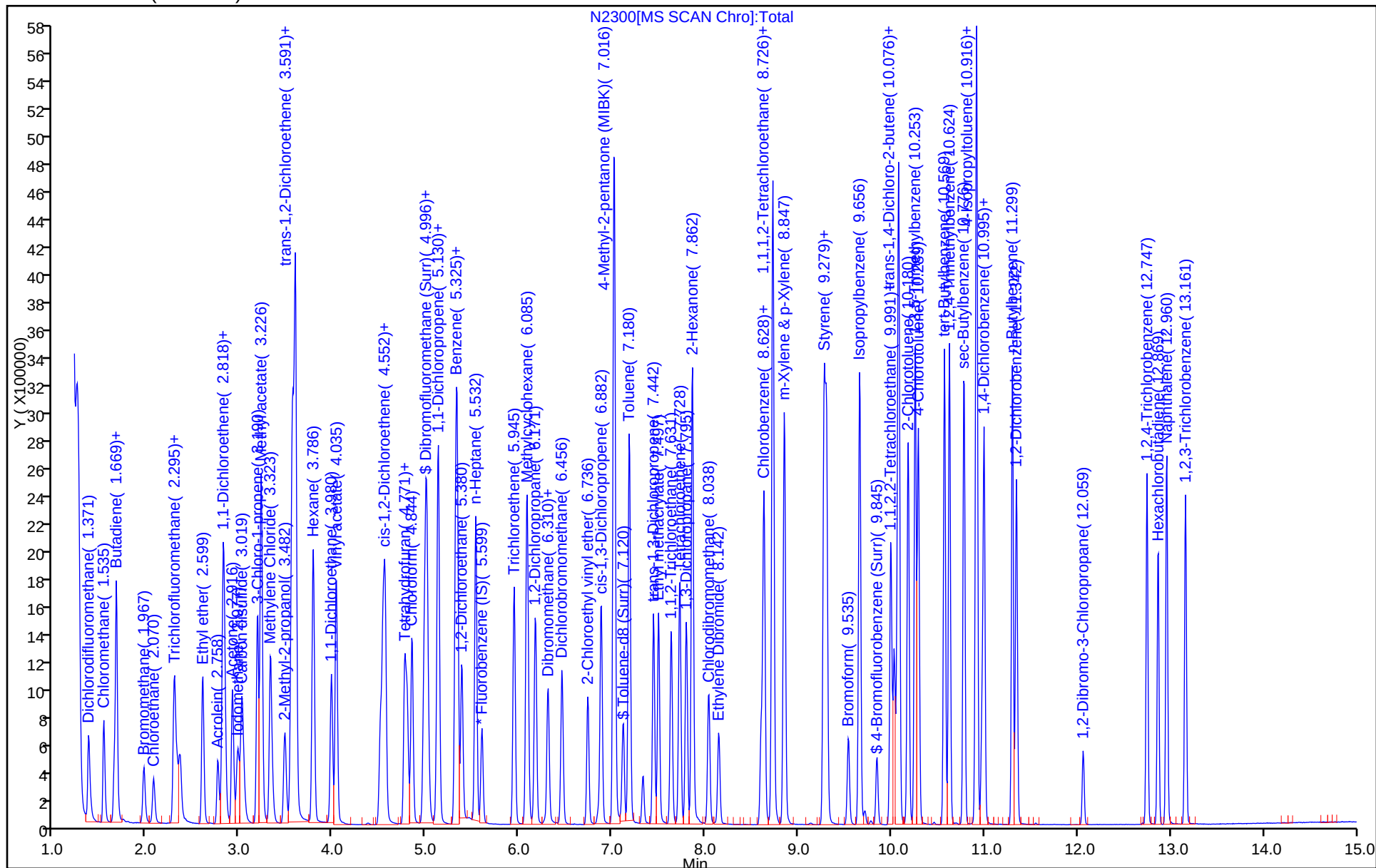
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2300.D

Injection Date: 02-Oct-2015 18:55:30

Instrument ID: HP5973N

Lims ID: IC 7

Client ID:

Operator ID: gtg

ALS Bottle#:

22

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

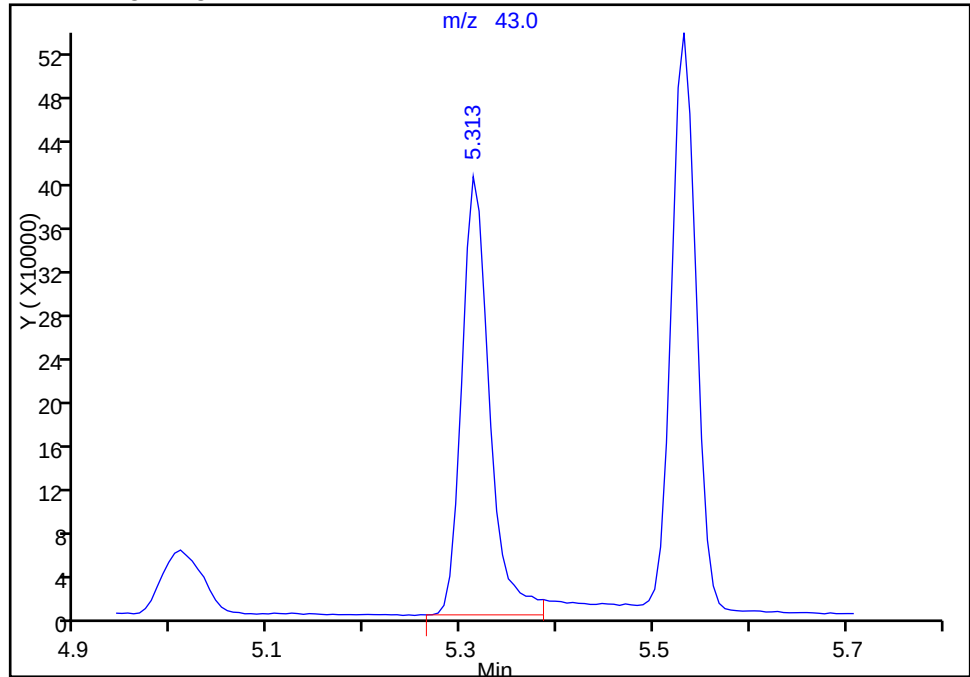
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

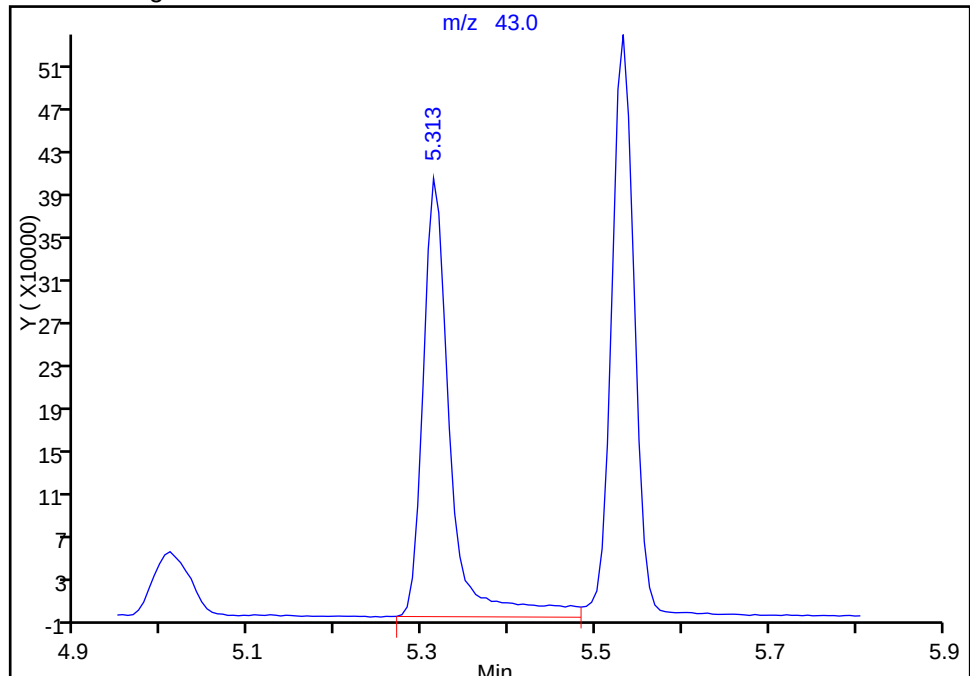
RT: 5.31
Area: 801829
Amount: 2289.7304
Amount Units: ug/L

Processing Integration Results



RT: 5.31
Area: 866622
Amount: 2376.3315
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:45:57

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2300.D

Injection Date: 02-Oct-2015 18:55:30

Instrument ID: HP5973N

Lims ID: IC 7

Client ID:

Operator ID: gtg

ALS Bottle#:

22

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

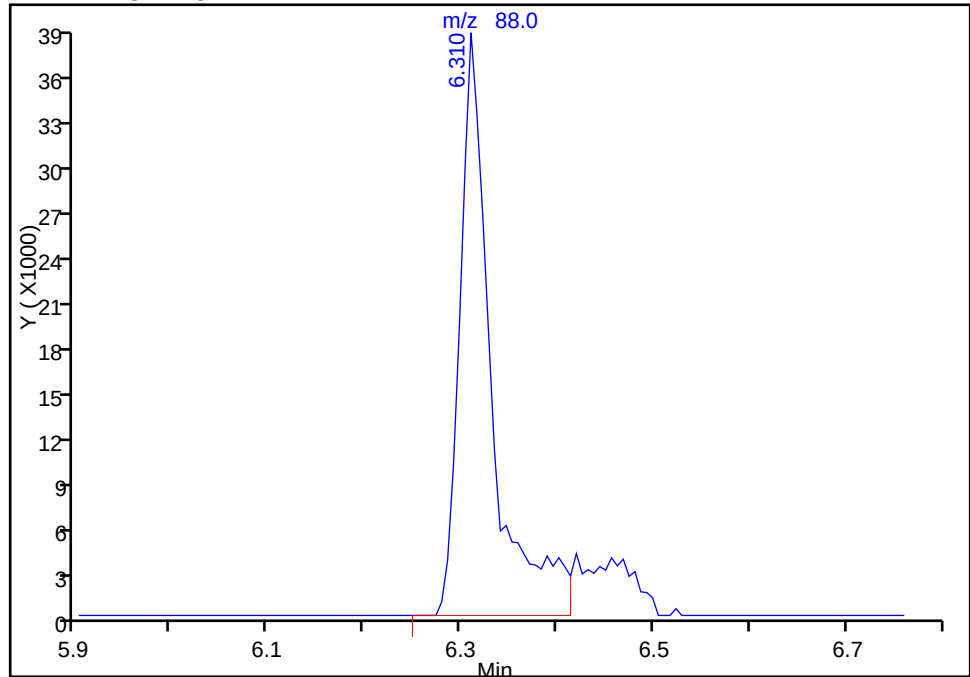
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

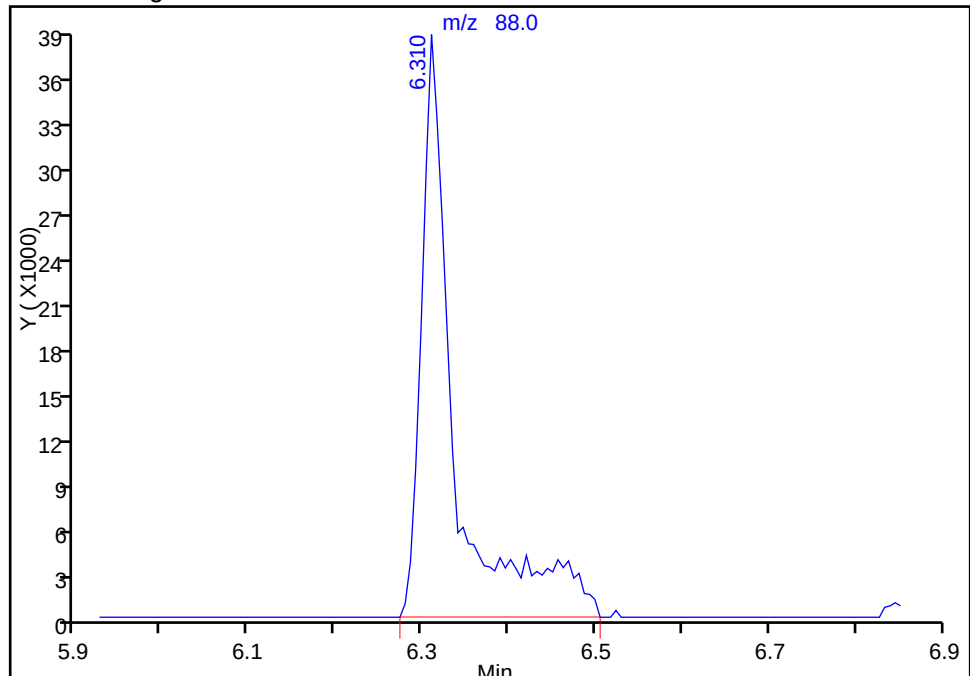
RT: 6.31
Area: 87524
Amount: 1521.5311
Amount Units: ug/L

Processing Integration Results



RT: 6.31
Area: 101494
Amount: 2023.9052
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:45:57

Audit Action: Manually Integrated

Audit Reason: Peak Tail

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

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 21:08 Calibration End Date: 10/02/2015 23:49 Calibration ID: 25099

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-266700/18	N2305.D
Level 2	IC 480-266700/19	N2306.D
Level 3	IC 480-266700/20	N2307.D
Level 4	IC 480-266700/21	N2308.D
Level 5	IC 480-266700/22	N2309.D
Level 6	IC 480-266700/23	N2310.D
Level 7	IC 480-266700/24	N2311.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	+++++ 0.2037	0.1303 0.2184	0.1658	0.1782	0.1891	Ave		0.1809				17.1		20.0			
Ethanol	+++++ 0.0016	0.0017 0.0017	0.0015	0.0016	0.0012	Ave		0.0016				10.7		20.0			
Isopropyl alcohol	0.0116 0.0179	0.0232 0.0164	0.0203	0.0135	0.0143	Lin	-0.038	0.0166							0.9960		0.9900
Acetonitrile	+++++ 0.0191	0.0292 0.0170	0.0216	0.0165	0.0156	Lin1	0.1166	0.0172							0.9940		0.9900
Isopropyl ether	1.0980 0.9876	1.1878 0.9472	1.0412	1.0699	1.0470	Ave		1.0541				7.4		20.0			
Chloroprene	0.3910 0.4445	0.5097 0.4266	0.4750	0.4735	0.4718	Ave		0.4560				8.5		20.0			
1,1-Dimethoxyethane	0.0550 0.0559	0.0519 0.0574	0.0578	0.0501	0.0547	Ave		0.0547				5.1		20.0			
Tert-butyl ethyl ether	0.9986 0.8649	1.0904 0.8433	0.9205	0.9323	0.9391	Ave		0.9413				8.8		20.0			
Ethyl acetate	0.2894 0.2936	0.2752 0.2831	0.2883	0.2626	0.2817	Ave		0.2820				3.7		20.0			
Propionitrile	0.0432 0.0511	0.0513 0.0448	0.0520	0.0419	0.0442	Ave		0.0469				9.3		20.0			
Methacrylonitrile	0.1258 0.1136	0.1277 0.1067	0.1239	0.1161	0.1176	Ave		0.1188				6.3		20.0			
Isooctane	0.8723 0.8937	1.2269 0.8422	1.0336	0.9923	0.9708	Ave		0.9760				13.4		20.0			
t-Amyl alcohol	+++++ 0.0324	0.0254 0.0316	0.0319	0.0245	0.0301	Ave		0.0293				11.9		15.0			
Tert-amyl methyl ether	0.9319 0.8354	0.9847 0.7977	0.8561	0.8433	0.8428	Ave		0.8703				7.4		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.: 480-89018-1 Analy Batch No.: 266700
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/02/2015 21:08 Calibration End Date: 10/02/2015 23:49 Calibration ID: 25099

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	0.7975 0.6952	0.8809 0.6672	0.7735	0.7352	0.7315	Ave		0.7544				9.4		20.0			
n-Butanol	0.0032 0.0087	0.0051 0.0085	0.0064	0.0061	0.0074	Lin1	-0.095	0.0083							0.9940		0.9900
Ethyl acrylate	0.3019 0.3885	0.3219 0.3849	0.3641	0.3057	0.3619	Ave		0.3470				10.6		20.0			
Methyl methacrylate	0.2965 0.2991	0.3013 0.2872	0.3007	0.2623	0.2997	Ave		0.2924				4.8		20.0			
2-Nitropropane	0.1894 0.2486	0.1636 0.2562	0.2110	0.1927	0.2124	Ave		0.2106				15.6		20.0			
Epichlorohydrin	0.0235 0.0334	0.0303 0.0325	0.0305	0.0276	0.0312	Ave		0.0298				11.3		20.0			
2-Methylthiophene	2.1191 1.9795	2.4658 1.8357	2.1519	2.0297	1.8933	Ave		2.0679				10.1		20.0			
3-Methylthiophene	2.1440 2.0673	2.2588 1.9194	2.2327	2.1238	1.9914	Ave		2.1053				5.8		20.0			
n-Butyl acetate	0.4585 0.5457	0.4970 0.5222	0.4904	0.4692	0.5048	Ave		0.4983			0.1000	6.0		20.0			
1-Chlorohexane	0.8734 0.3375	0.5978 0.3250	0.4299	0.3850	0.3521	Lin1	0.2945	0.3298							0.9990		0.9900
3-Chlorobenzotrifluoride	0.9328 0.9168	1.1058 0.8786	1.0363	0.9497	0.9088	Ave		0.9613				8.4		20.0			
4-Chlorobenzotrifluoride	0.8105 0.8893	1.0893 0.8269	0.9700	0.9215	0.8114	Ave		0.9027				11.3		20.0			
2-Chlorobenzotrifluoride	0.9036 0.9209	1.1447 0.8925	1.0584	0.9614	0.9081	Ave		0.9700				9.9		20.0			
Cyclohexanone	0.0245 0.0301	0.0240 0.0272	0.0269	0.0267	0.0264	Ave		0.0265				7.6		20.0			
3-Chlorotoluene	0.7057 0.6893	0.7148 0.6595	0.7361	0.6987	0.6741	Ave		0.6969				3.7		20.0			
Pentachloroethane	++++ 0.2668	0.2974 0.2622	0.2694	0.2584	0.2619	Ave		0.2693				5.3		20.0			
Dicyclopentadiene	3.4481 2.4847	3.4241 2.3459	2.7964	2.6577	2.5999	Ave		2.8224				15.7		20.0			
1,2,3-Trimethylbenzene	2.3462 2.3344	2.8123 2.1892	2.4772	2.4347	2.4155	Ave		2.4299				7.9		20.0			
Benzyl chloride	++++ 0.1285	0.0787 0.1323	0.1036	0.1159	0.1308	Lin1	-0.072	0.1315							0.9990		0.9900
1,3,5-Trichlorobenzene	0.8597 0.8079	0.9708 0.8000	0.8205	0.8346	0.8855	Ave		0.8542				7.0		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.: 480-89018-1 Analy Batch No.: 266700
 SDG No.: _____
 Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 10/02/2015 21:08 Calibration End Date: 10/02/2015 23:49 Calibration ID: 25099

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	0.9356 1.2432	0.9628 +++++	0.8438	1.0614	1.3037	Ave		1.0584				17.1		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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 21:08 Calibration End Date: 10/02/2015 23:49 Calibration ID: 25099

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-266700/18	N2305.D
Level 2	IC 480-266700/19	N2306.D
Level 3	IC 480-266700/20	N2307.D
Level 4	IC 480-266700/21	N2308.D
Level 5	IC 480-266700/22	N2309.D
Level 6	IC 480-266700/23	N2310.D
Level 7	IC 480-266700/24	N2311.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	+++++ 215995	2699 462950	17570	35950	95785	+++++ 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Ave	+++++ 69811	1387 141574	6387	12629	25111	+++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Lin	1205 190112	4812 348126	21550	27195	72327	5.00 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Lin1	+++++ 202150	6043 361034	22890	33277	78911	+++++ 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	11428 1047254	24594 2007495	110349	215806	530273	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	4069 471344	10553 904192	50339	95498	238959	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	2863 296540	5374 607826	30618	50517	138623	2.50 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	10393 917113	22578 1787268	97557	188045	475636	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	6023 622609	11398 1199970	61111	105951	285304	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	4491 542159	10616 949050	55085	84459	224012	5.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	13095 1204774	26446 2260941	131305	234091	595575	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	9078 947648	25405 1784994	109539	200140	491690	0.500 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	+++++ 343685	5252 668957	33805	49411	152310	+++++ 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	9699 885901	20389 1690586	90729	170094	426843	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	8300 737157	18240 1414130	81971	148288	370452	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.: 480-89018-1 Analy Batch No.: 266700

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2015 21:08 Calibration End Date: 10/02/2015 23:49 Calibration ID: 25099

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	Lin1	844 231847	2653 447867	17079	30592	93599	12.5 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	3142 411952	6665 815692	38589	61658	183284	0.500 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	6172 634437	12478 1217176	63737	105820	303542	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCB	Ave	1586 202035	2582 432116	16675	28867	88132	1.00 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	2443 353970	6266 689681	32289	55667	157928	5.00 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCB	Ave	8874 804457	19453 1548231	85026	152065	392725	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCB	Ave	8978 840119	17820 1618805	88220	159114	413058	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	CBZ	Ave	3550 427393	7429 833477	38106	68416	191230	0.500 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBZ	Lin1	6763 264357	8935 518724	33407	56142	133392	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCB	Ave	3906 372587	8724 741038	40946	71152	188506	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCB	Ave	3394 361406	8594 697427	38329	69037	168294	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCB	Ave	3784 374236	9031 752699	41821	72032	188366	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCB	Ave	1025 122359	1891 228996	10642	19994	54752	5.00 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCB	Ave	2955 280109	5639 556179	29085	52349	139827	0.500 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCB	Ave	++++ 108410	2346 221147	10644	19361	54319	++++ 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCB	Ave	14439 1009781	27014 1978497	110494	199113	539286	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCB	Ave	9825 948682	22187 1846351	97881	182411	501025	0.500 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBZ	Lin1	++++ 100629	1176 211099	8050	16897	49554	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCB	Ave	3600 328323	7659 674733	32421	62532	183666	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCB	Ave	3918 505234	7596 ++++	33341	79517	270415	0.500 50.0	1.00 ++++	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.: 480-89018-1 Analy Batch No.: 266700
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/02/2015 21:08 Calibration End Date: 10/02/2015 23:49 Calibration ID: 25099

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2305.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 02-Oct-2015 21:08:30 ALS Bottle#: 27 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0046854-018
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:02 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.598	0.001	98	520378	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.597	0.001	87	387158	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.971	10.970	0.001	95	209378	25.0	25.0	
12 Chlorodifluoromethane	51		1.395				ND	ND	
141 Ethanol	45		2.581				ND	ND	
81 Propene oxide	58	2.685	2.678	0.007	92	4548	NC	NC	
26 Isopropyl alcohol	45	3.111	3.104	0.007	36	1205	5.00	5.77	M
29 Acetonitrile	40	3.244	3.214	0.030	48	3272	5.00	2.36	
37 Isopropyl ether	45	4.011	4.011	0.000	98	11428	0.5000	0.5208	
38 2-Chloro-1,3-butadiene	53	4.054	4.047	0.006	91	4069	0.5000	0.4287	
40 1,1-Dimethoxyethane	75	4.078	4.078	0.000	91	2863	2.50	2.51	
41 Tert-butyl ethyl ether	59	4.358	4.351	0.007	99	10393	0.5000	0.5304	
45 Ethyl acetate	43	4.607	4.601	0.006	23	6023	1.00	1.03	
46 Propionitrile	54	4.656	4.649	0.007	96	4491	5.00	4.60	
48 Methacrylonitrile	67	4.771	4.765	0.006	97	13095	5.00	5.30	
146 Isooctane	57	5.355	5.349	0.006	84	9078	0.5000	0.4469	
140 t-Amyl alcohol	59	5.386	5.373	0.013	5	1922	5.00	3.15	
58 Tert-amyl methyl ether	73	5.422	5.416	0.006	91	9699	0.5000	0.5354	
1 1,4-Difluorobenzene	114	5.708	5.708	0.000	93	8300	0.5000	0.5286	
61 n-Butanol	56	5.945	5.939	0.006	0	844	12.5	16.3	
145 Ethyl acrylate	55	6.061	6.055	0.006	95	3142	0.5000	0.4350	
65 Methyl methacrylate	41	6.274	6.274	0.000	92	6172	1.00	1.01	
68 2-Nitropropane	43	6.706	6.687	0.019	72	1586	1.00	0.8994	
70 Epichlorohydrin	57	6.822	6.815	0.007	0	2443	5.00	3.93	M
74 2-Methylthiophene	97	7.314	7.314	0.000	92	8874	0.5000	0.5124	
76 3-Methylthiophene	97	7.485	7.478	0.007	97	8978	0.5000	0.5092	
149 n-Butyl acetate	43	7.977	7.977	0.000	32	3550	0.5000	0.4601	
139 1-Chlorohexane	55	8.598	8.579	0.019	33	6763	0.5000	0.4313	
86 3-Chlorobenzotrifluoride	180	8.592	8.592	0.000	53	3906	0.5000	0.4852	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	78	3394	0.5000	0.4489	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.577	9.571	0.006	93	3784	0.5000	0.4658	
96 Cyclohexanone	55	9.802	9.802	0.000	1	1025	5.00	4.61	
103 3-Chlorotoluene	126	10.247	10.240	0.007	93	2955	0.5000	0.5063	
107 Pentachloroethane	167		10.617				ND	ND	
112 Dicyclopentadiene	66	10.983	10.982	0.001	59	14439	0.5000	0.6108	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	94	9825	0.5000	0.4828	
143 Benzyl chloride	126		11.135				ND	ND	
118 1,3,5-Trichlorobenzene	180	12.212	12.211	0.001	88	3600	0.5000	0.5032	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	85	3918	0.5000	0.4420	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 0.50	Units: uL
3MTP_WRK_00049	Amount Added: 0.50	Units: uL
ADD CORP mix_00036	Amount Added: 0.50	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2305.D

Injection Date: 02-Oct-2015 21:08:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 8

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

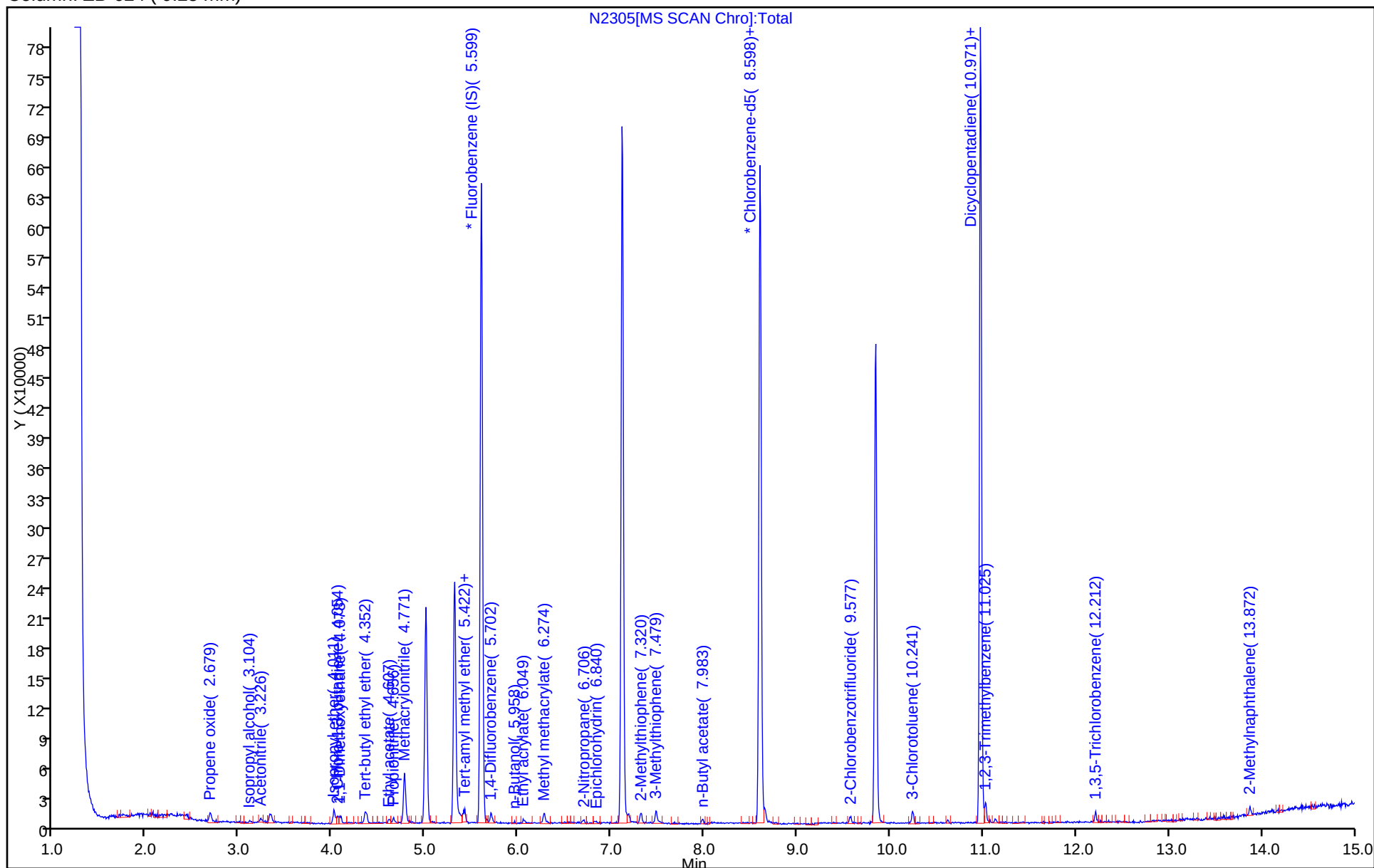
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2305.D

Injection Date: 02-Oct-2015 21:08:30

Instrument ID: HP5973N

Lims ID: IC 8

Client ID:

Operator ID: gtg

ALS Bottle#: 27

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

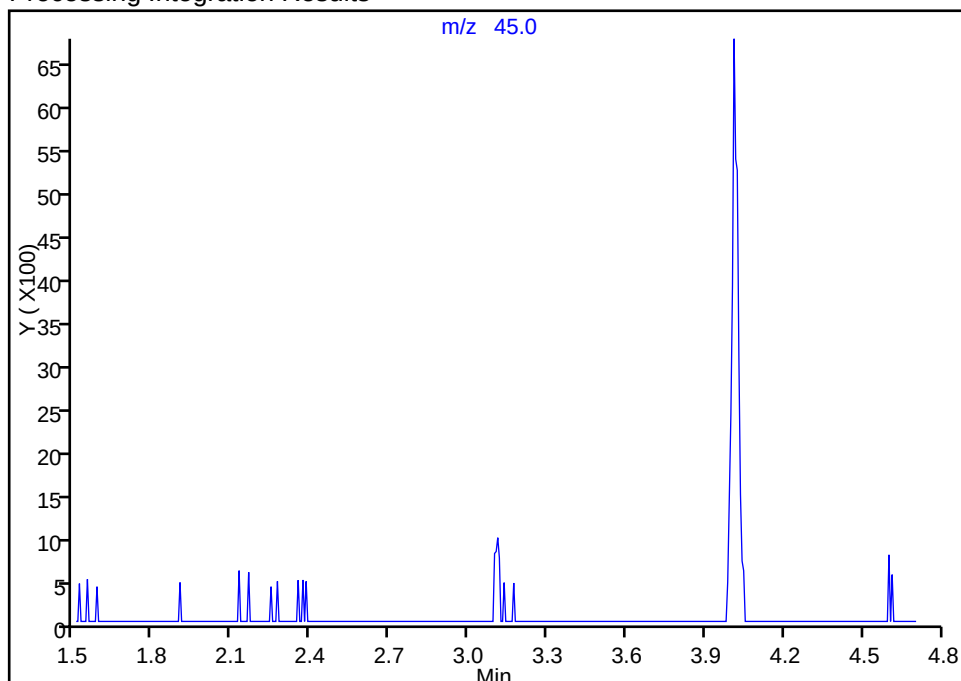
Detector: MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

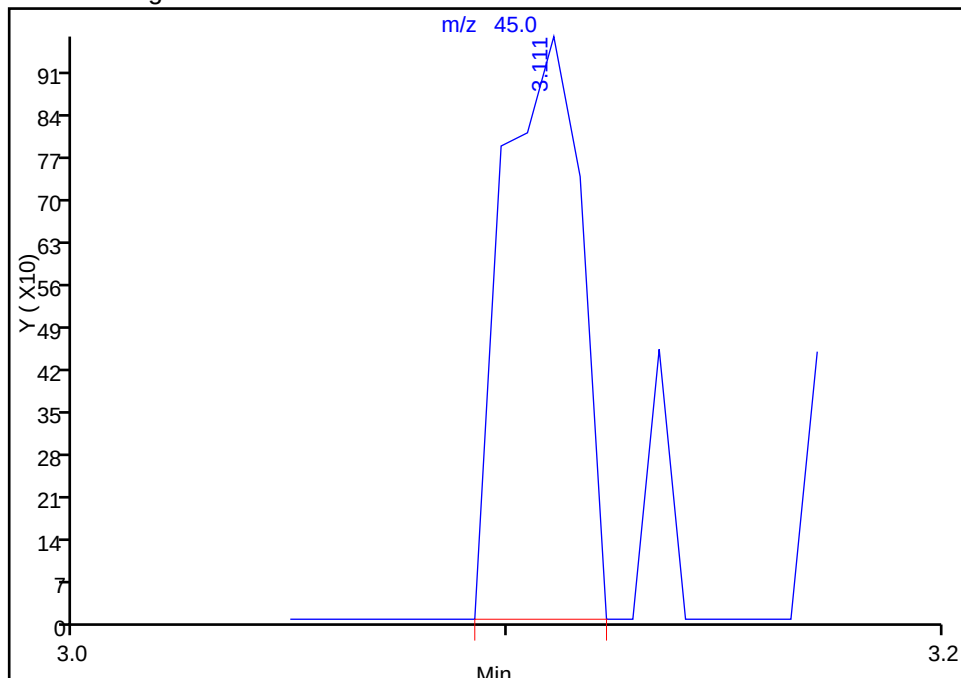
Not Detected

Expected RT: 3.10

Processing Integration Results



Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:50:49

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2305.D

Injection Date: 02-Oct-2015 21:08:30

Instrument ID: HP5973N

Lims ID: IC 8

Client ID:

Operator ID: gtg

ALS Bottle#:

27

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

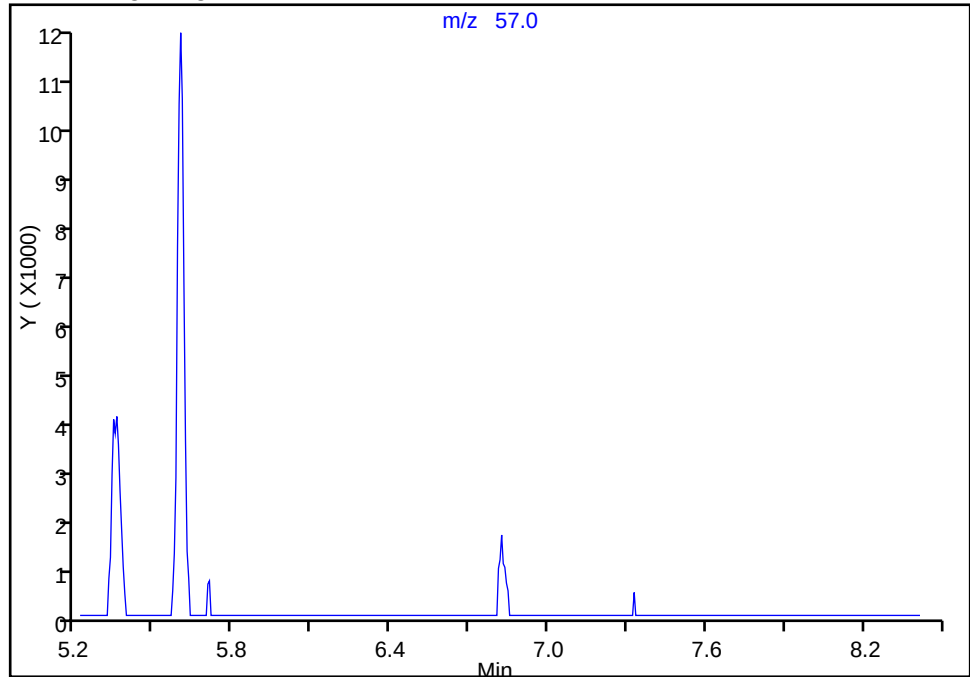
Detector: MS SCAN

70 Epichlorohydrin, CAS: 106-89-8

Not Detected

Expected RT: 6.82

Processing Integration Results



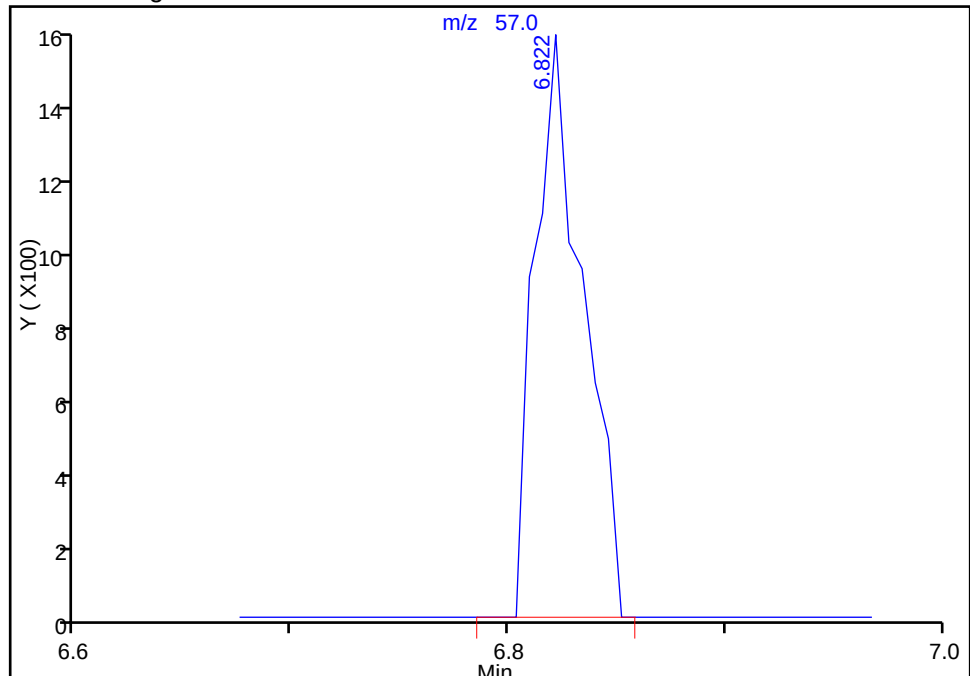
RT: 6.82

Area: 2443

Amount: 3.932705

Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:45:15

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2306.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 02-Oct-2015 21:35:30 ALS Bottle#: 28 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0046854-019
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:10 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.598	0.000	99	517651	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.597	0.001	87	373672	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	96	197232	25.0	25.0	
12 Chlorodifluoromethane	51	1.401	1.395	0.006	8	2699	1.00	0.7204	
141 Ethanol	45	2.581	2.581	0.000	0	1387	40.0	43.2	M
81 Propene oxide	58	2.678	2.678	0.000	94	12132	NC	NC	
26 Isopropyl alcohol	45	3.104	3.104	0.000	94	4812	10.0	16.3	M
29 Acetonitrile	40	3.220	3.214	0.006	94	6043	10.0	10.2	M
37 Isopropyl ether	45	4.017	4.011	0.006	93	24594	1.00	1.13	
38 2-Chloro-1,3-butadiene	53	4.053	4.047	0.006	88	10553	1.00	1.12	
40 1,1-Dimethoxyethane	75	4.084	4.078	0.006	95	5374	5.00	4.75	
41 Tert-butyl ethyl ether	59	4.351	4.351	0.000	95	22578	1.00	1.16	
45 Ethyl acetate	43	4.607	4.601	0.006	46	11398	2.00	1.95	
46 Propionitrile	54	4.655	4.649	0.006	96	10616	10.0	10.9	
48 Methacrylonitrile	67	4.771	4.765	0.006	98	26446	10.0	10.8	
146 Isooctane	57	5.355	5.349	0.006	97	25405	1.00	1.26	
140 t-Amyl alcohol	59	5.385	5.373	0.012	76	5252	10.0	8.66	
58 Tert-amyl methyl ether	73	5.416	5.416	0.000	95	20389	1.00	1.13	
1 1,4-Difluorobenzene	114	5.708	5.708	0.000	93	18240	1.00	1.17	
61 n-Butanol	56	5.951	5.939	0.012	51	2653	25.0	26.8	
145 Ethyl acrylate	55	6.061	6.055	0.006	95	6665	1.00	0.9277	
65 Methyl methacrylate	41	6.268	6.274	-0.006	92	12478	2.00	2.06	
68 2-Nitropropane	43	6.693	6.687	0.006	94	2582	2.00	1.55	
70 Epichlorohydrin	57	6.821	6.815	0.006	94	6266	10.0	10.1	
74 2-Methylthiophene	97	7.320	7.314	0.006	97	19453	1.00	1.19	
76 3-Methylthiophene	97	7.478	7.478	0.000	100	17820	1.00	1.07	
149 n-Butyl acetate	43	7.971	7.977	-0.006	93	7429	1.00	1.00	
139 1-Chlorohexane	55	8.592	8.579	0.013	33	8935	1.00	0.9197	
86 3-Chlorobenzotrifluoride	180	8.592	8.592	0.000	54	8724	1.00	1.15	
87 4-Chlorobenzotrifluoride	180	8.652	8.659	-0.007	93	8594	1.00	1.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	96	9031	1.00	1.18	
96 Cyclohexanone	55	9.808	9.802	0.006	21	1891	10.0	9.03	
103 3-Chlorotoluene	126	10.246	10.240	0.006	97	5639	1.00	1.03	
107 Pentachloroethane	167	10.617	10.617	0.000	74	2346	1.00	1.10	
112 Dicyclopentadiene	66	10.988	10.982	0.006	51	27014	1.00	1.21	
114 1,2,3-Trimethylbenzene	105	11.031	11.025	0.006	98	22187	1.00	1.16	
143 Benzyl chloride	126	11.128	11.135	-0.007	96	1176	1.00	1.15	
118 1,3,5-Trichlorobenzene	180	12.211	12.211	0.000	94	7659	1.00	1.14	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	94	7596	1.00	0.9097	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 1.00	Units: uL
3MTP_WRK_00049	Amount Added: 1.00	Units: uL
ADD CORP mix_00036	Amount Added: 1.00	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2306.D

Injection Date: 02-Oct-2015 21:35:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 9

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

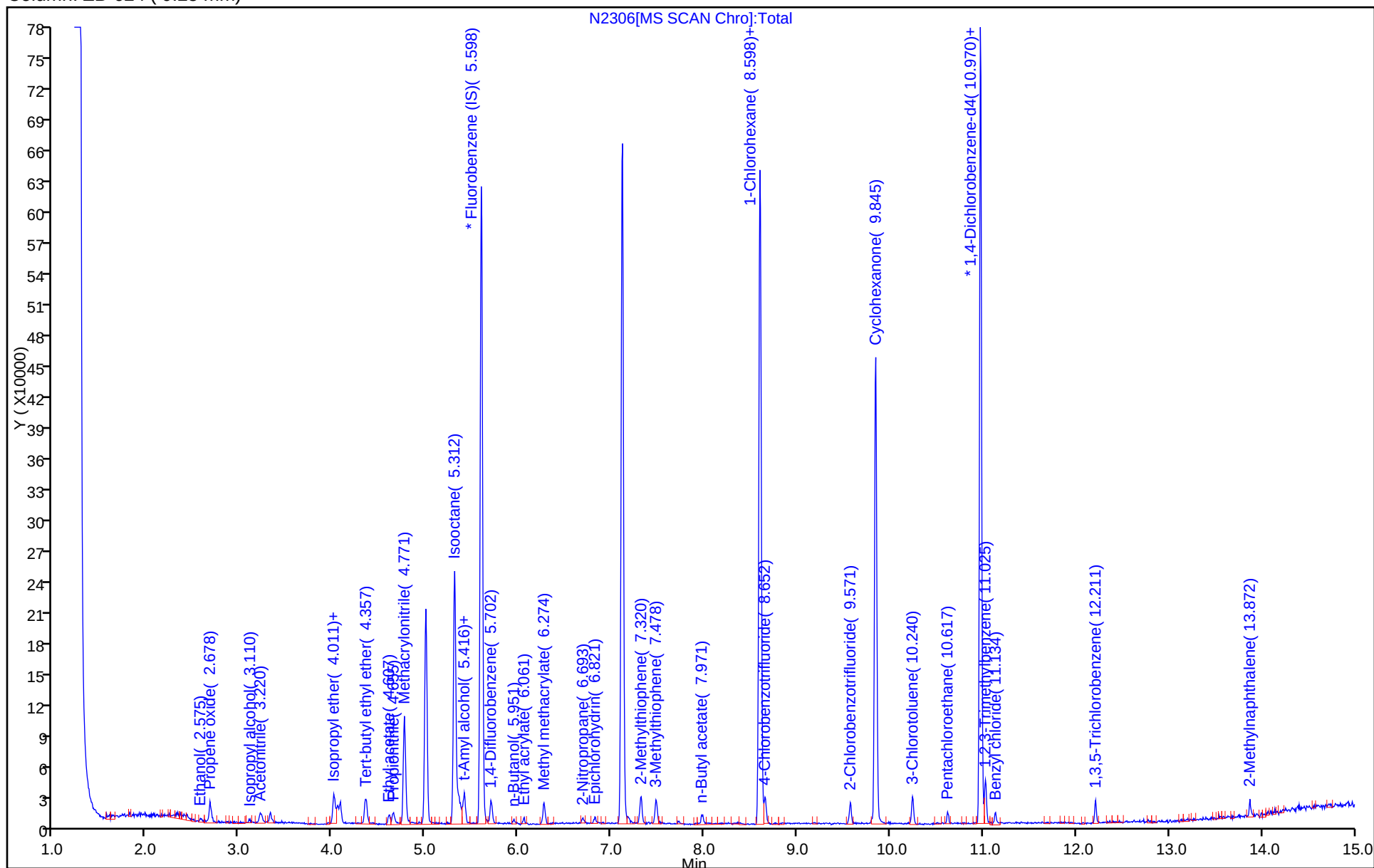
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2306.D

Injection Date: 02-Oct-2015 21:35:30

Instrument ID: HP5973N

Lims ID: IC 9

Client ID:

Operator ID: gtg

ALS Bottle#:

28

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

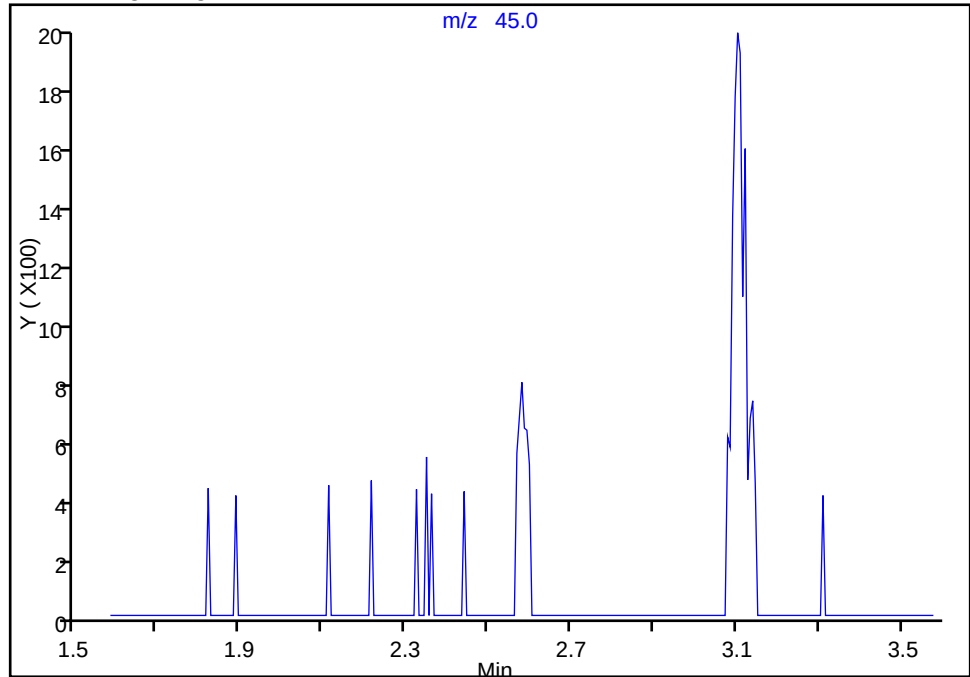
Detector: MS SCAN

141 Ethanol, CAS: 64-17-5

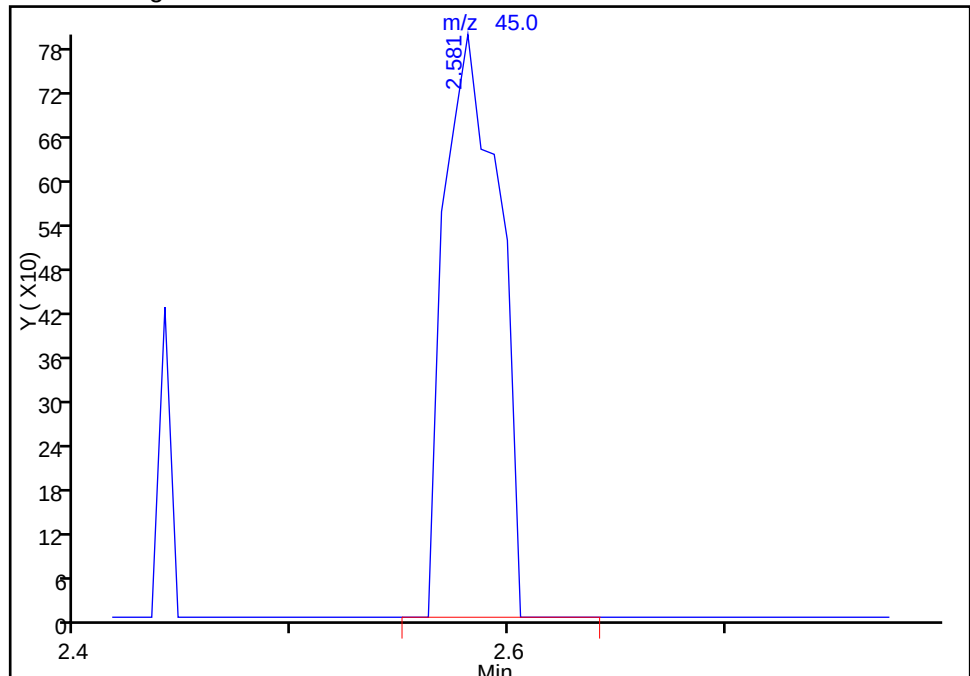
Not Detected

Expected RT: 2.58

Processing Integration Results



Manual Integration Results



RT: 2.58

Area: 1387

Amount: 43.207036

Amount Units: ug/L

Reviewer: goliszekg, 05-Oct-2015 13:46:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2306.D

Injection Date: 02-Oct-2015 21:35:30

Instrument ID: HP5973N

Lims ID: IC 9

Client ID:

Operator ID: gtg

ALS Bottle#:

28

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

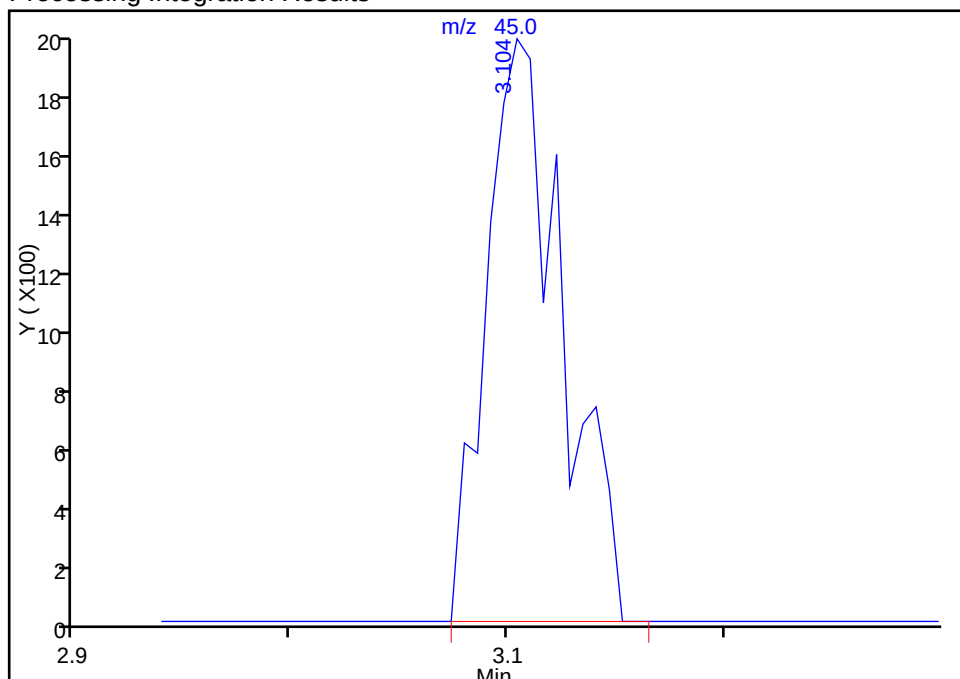
Detector

MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

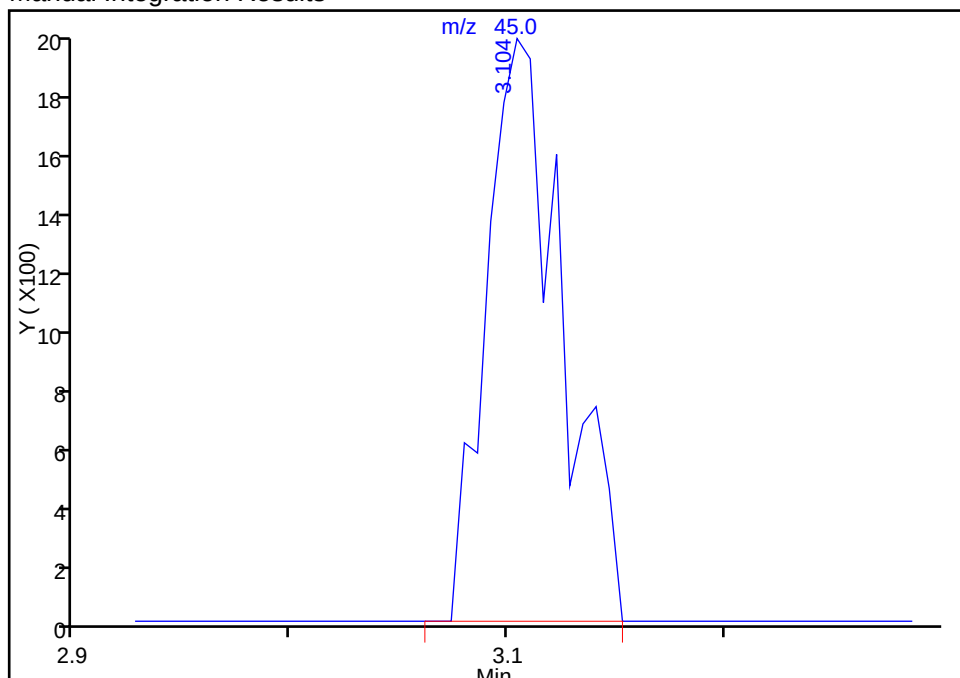
RT: 3.10
Area: 4812
Amount: 16.172673
Amount Units: ug/L

Processing Integration Results



RT: 3.10
Area: 4812
Amount: 16.251156
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:51:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2306.D

Injection Date: 02-Oct-2015 21:35:30

Instrument ID: HP5973N

Lims ID: IC 9

Client ID:

Operator ID: gtg

ALS Bottle#:

28

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

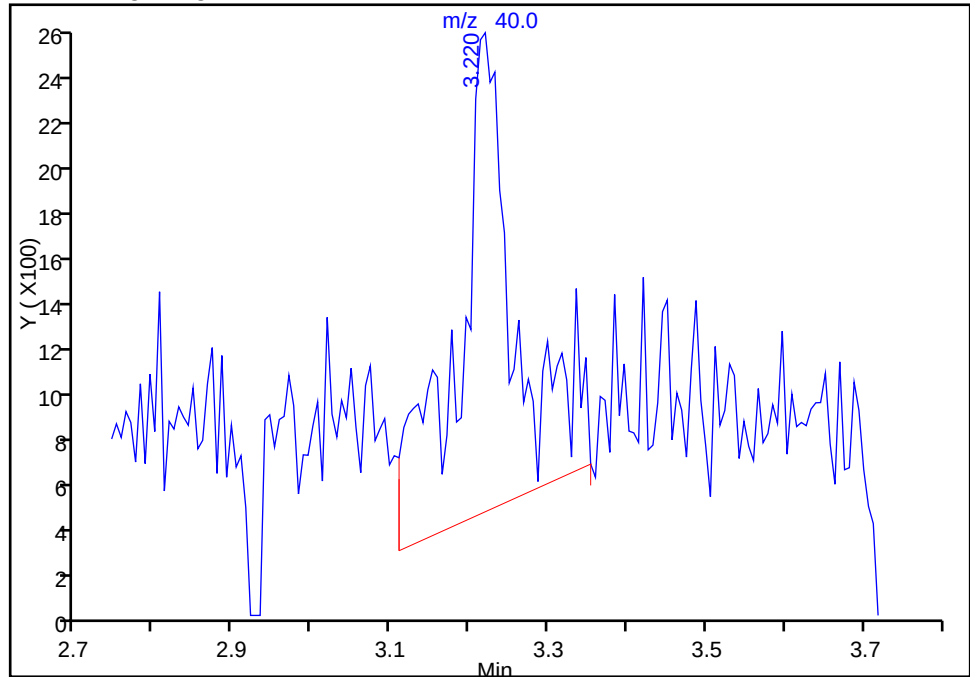
Detector

MS SCAN

29 Acetonitrile, CAS: 75-05-8

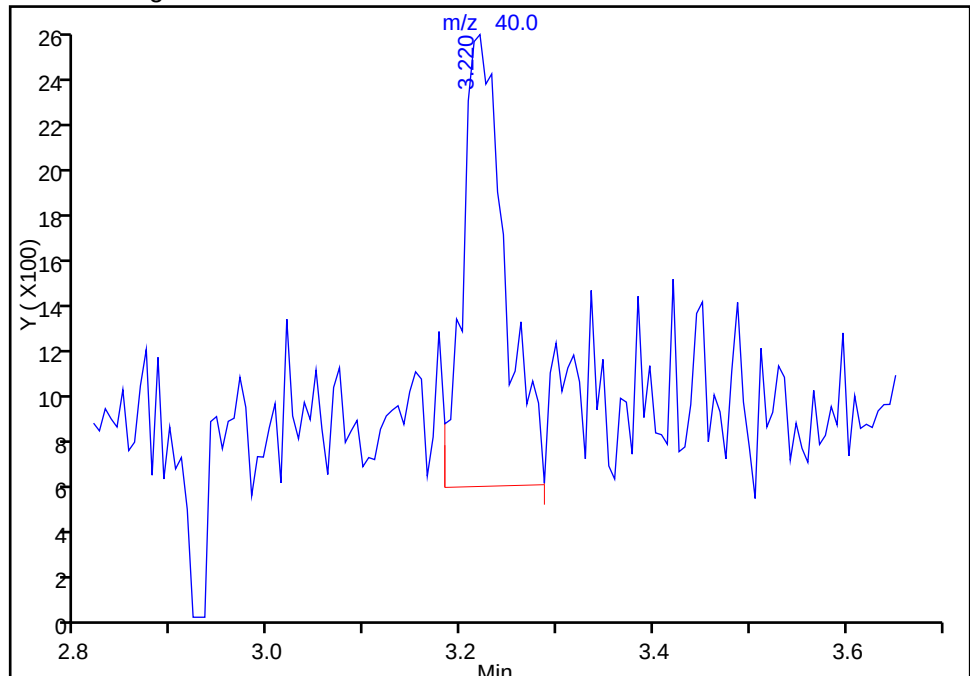
RT: 3.22
Area: 10885
Amount: 20.409394
Amount Units: ug/L

Processing Integration Results



RT: 3.22
Area: 6043
Amount: 10.209763
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:47:23

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2307.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 02-Oct-2015 22:02:30 ALS Bottle#: 29 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0046854-020
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:18 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.598	0.001	98	529898	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.597	0.001	88	388500	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	96	197563	25.0	25.0	
12 Chlorodifluoromethane	51	1.389	1.395	-0.006	96	17570	5.00	4.58	
141 Ethanol	45	2.581	2.581	0.000	95	6387	200.0	194.4	
81 Propene oxide	58	2.678	2.678	0.000	95	48402	NC	NC	
26 Isopropyl alcohol	45	3.098	3.104	-0.006	98	21550	50.0	63.4	
29 Acetonitrile	40	3.220	3.214	0.006	100	22890	50.0	56.1	M
37 Isopropyl ether	45	4.011	4.011	0.000	94	110349	5.00	4.94	
38 2-Chloro-1,3-butadiene	53	4.047	4.047	0.000	94	50339	5.00	5.21	
40 1,1-Dimethoxyethane	75	4.084	4.078	0.006	96	30618	25.0	26.4	
41 Tert-butyl ethyl ether	59	4.351	4.351	0.000	97	97557	5.00	4.89	
45 Ethyl acetate	43	4.601	4.601	0.000	99	61111	10.0	10.2	
46 Propionitrile	54	4.650	4.649	0.001	99	55085	50.0	55.4	
48 Methacrylonitrile	67	4.771	4.765	0.006	97	131305	50.0	52.2	
146 Isooctane	57	5.349	5.349	0.000	95	109539	5.00	5.30	
140 t-Amyl alcohol	59	5.380	5.373	0.007	85	33805	50.0	54.4	
58 Tert-amyl methyl ether	73	5.410	5.416	-0.006	96	90729	5.00	4.92	
1 1,4-Difluorobenzene	114	5.702	5.708	-0.006	95	81971	5.00	5.13	
61 n-Butanol	56	5.939	5.939	0.000	95	17079	125.0	108.2	
145 Ethyl acrylate	55	6.055	6.055	0.000	98	38589	5.00	5.25	
65 Methyl methacrylate	41	6.274	6.274	0.000	94	63737	10.0	10.3	
68 2-Nitropropane	43	6.694	6.687	0.007	98	16675	10.0	10.0	
70 Epichlorohydrin	57	6.821	6.815	0.006	99	32289	50.0	51.0	
74 2-Methylthiophene	97	7.320	7.314	0.006	97	85026	5.00	5.20	
76 3-Methylthiophene	97	7.478	7.478	0.000	100	88220	5.00	5.30	
149 n-Butyl acetate	43	7.977	7.977	0.000	97	38106	5.00	4.92	
139 1-Chlorohexane	55	8.580	8.579	0.001	87	33407	5.00	5.63	
86 3-Chlorobenzotrifluoride	180	8.598	8.592	0.006	85	40946	5.00	5.39	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	95	38329	5.00	5.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	98	41821	5.00	5.46	
96 Cyclohexanone	55	9.802	9.802	0.000	92	10642	50.0	50.8	
103 3-Chlorotoluene	126	10.240	10.240	0.000	96	29085	5.00	5.28	
107 Pentachloroethane	167	10.618	10.617	0.001	83	10644	5.00	5.00	
112 Dicyclopentadiene	66	10.989	10.982	0.007	96	110494	5.00	4.95	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	97	97881	5.00	5.10	
143 Benzyl chloride	126	11.135	11.135	0.000	98	8050	5.00	4.49	
118 1,3,5-Trichlorobenzene	180	12.211	12.211	0.000	95	32421	5.00	4.80	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	92	33341	5.00	3.99	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 5.00	Units: uL
3MTP_WRK_00049	Amount Added: 5.00	Units: uL
ADD CORP mix_00036	Amount Added: 5.00	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2307.D

Injection Date: 02-Oct-2015 22:02:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 10

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

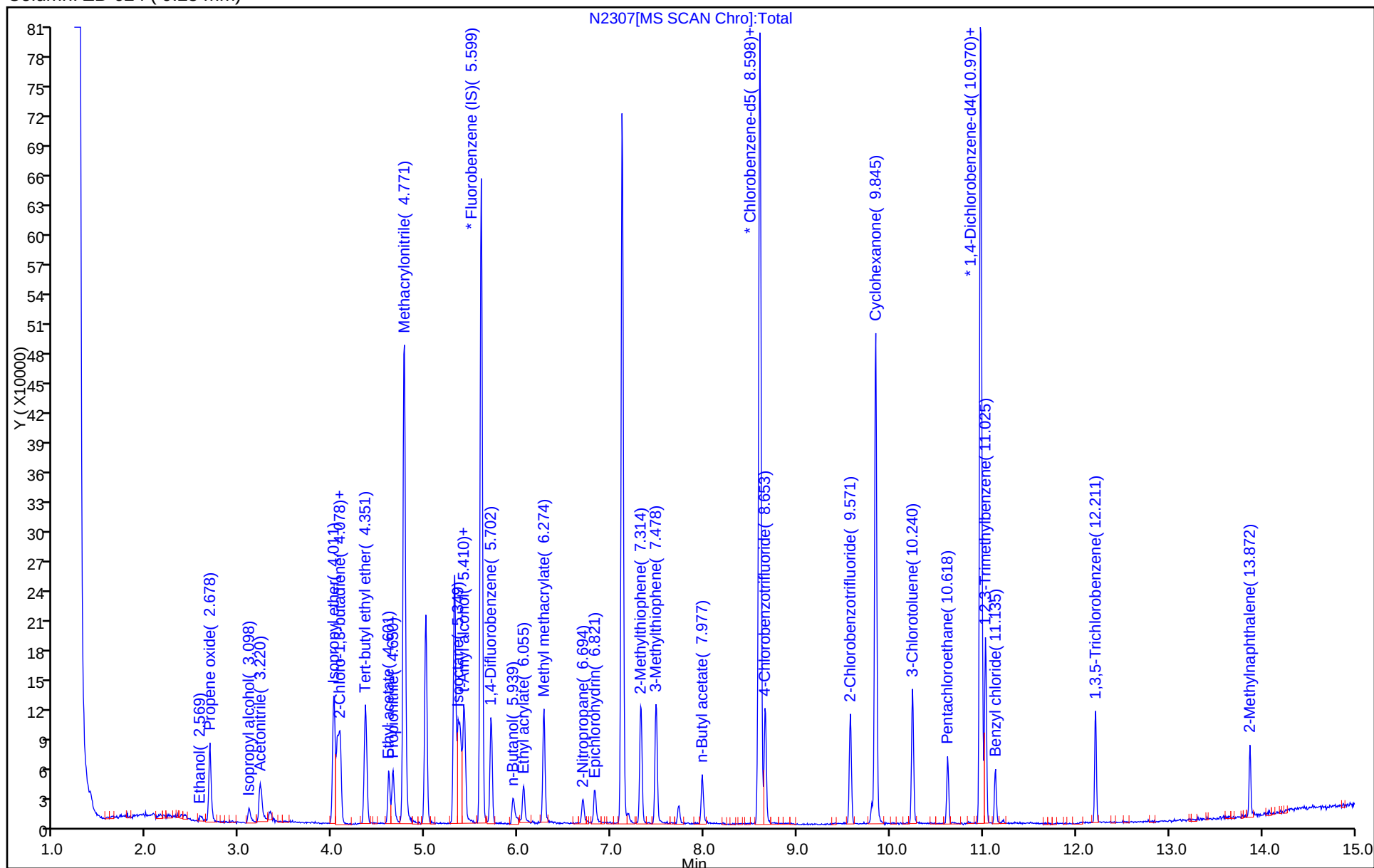
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2307.D

Injection Date: 02-Oct-2015 22:02:30

Instrument ID: HP5973N

Lims ID: IC 10

Client ID:

Operator ID: gtg

ALS Bottle#:

29

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

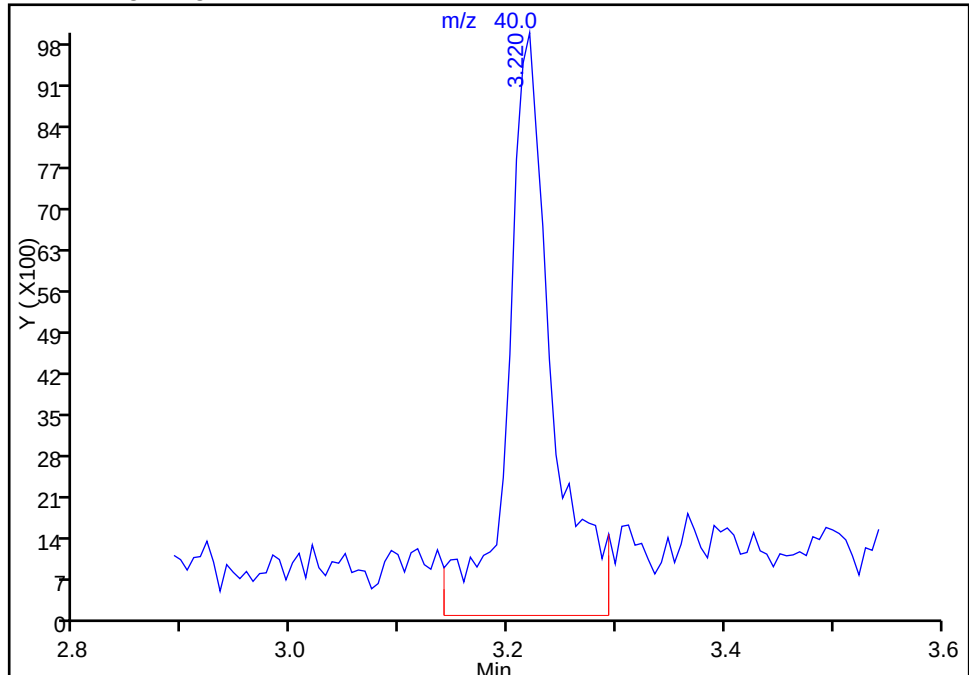
Detector

MS SCAN

29 Acetonitrile, CAS: 75-05-8

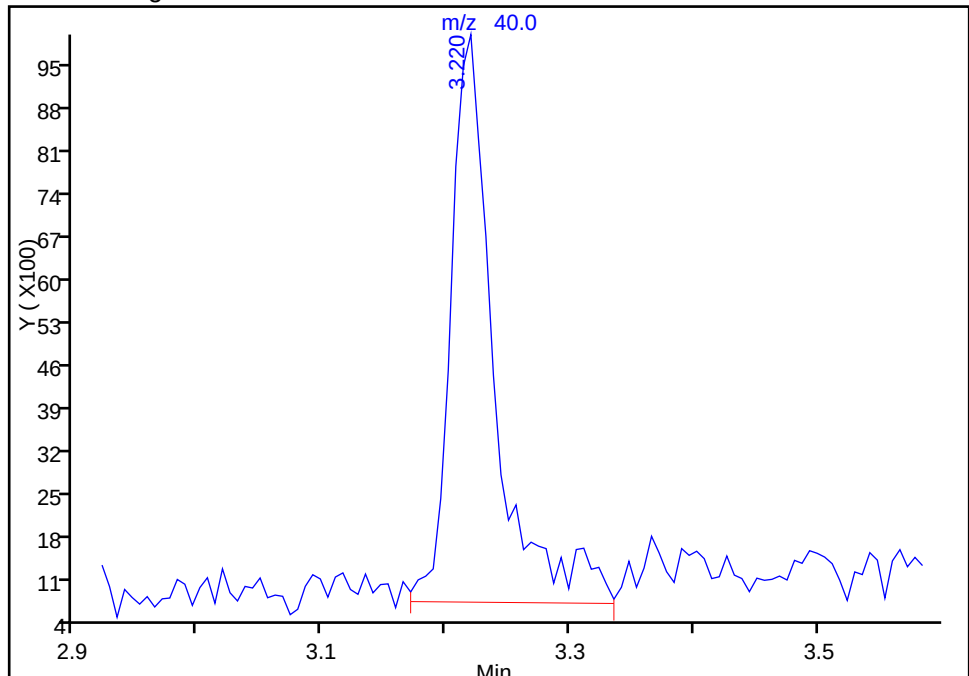
RT: 3.22
Area: 28197
Amount: 63.197916
Amount Units: ug/L

Processing Integration Results



RT: 3.22
Area: 22890
Amount: 56.123396
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:48:28

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2308.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 02-Oct-2015 22:28:30 ALS Bottle#: 30 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0046854-021
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:27 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	504251	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	88	364529	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	95	187301	25.0	25.0	
12 Chlorodifluoromethane	51	1.395	1.395	0.000	98	35950	10.0	9.85	
141 Ethanol	45	2.581	2.581	0.000	97	12629	400.0	403.9	M
81 Propene oxide	58	2.678	2.678	0.000	96	88429	NC	NC	
26 Isopropyl alcohol	45	3.104	3.104	0.000	98	27195	100.0	83.3	
29 Acetonitrile	40	3.214	3.214	0.000	99	33277	100.0	89.3	M
37 Isopropyl ether	45	4.011	4.011	0.000	95	215806	10.0	10.2	
38 2-Chloro-1,3-butadiene	53	4.047	4.047	0.000	94	95498	10.0	10.4	
40 1,1-Dimethoxyethane	75	4.078	4.078	0.000	97	50517	50.0	45.8	
41 Tert-butyl ethyl ether	59	4.351	4.351	0.000	98	188045	10.0	9.90	
45 Ethyl acetate	43	4.601	4.601	0.000	99	105951	20.0	18.6	
46 Propionitrile	54	4.649	4.649	0.000	98	84459	100.0	89.3	
48 Methacrylonitrile	67	4.765	4.765	0.000	97	234091	100.0	97.7	
146 Isooctane	57	5.349	5.349	0.000	95	200140	10.0	10.2	
140 t-Amyl alcohol	59	5.373	5.373	0.000	65	49411	100.0	83.6	
58 Tert-amyl methyl ether	73	5.416	5.416	0.000	95	170094	10.0	9.69	
1 1,4-Difluorobenzene	114	5.708	5.708	0.000	95	148288	10.0	9.75	
61 n-Butanol	56	5.939	5.939	0.000	93	30592	250.0	193.7	
145 Ethyl acrylate	55	6.055	6.055	0.000	99	61658	10.0	8.81	
65 Methyl methacrylate	41	6.274	6.274	0.000	94	105820	20.0	17.9	
68 2-Nitropropane	43	6.687	6.687	0.000	99	28867	20.0	18.3	
70 Epichlorohydrin	57	6.815	6.815	0.000	99	55667	100.0	92.5	
74 2-Methylthiophene	97	7.314	7.314	0.000	98	152065	10.0	9.82	
76 3-Methylthiophene	97	7.478	7.478	0.000	99	159114	10.0	10.1	
149 n-Butyl acetate	43	7.977	7.977	0.000	98	68416	10.0	9.42	
139 1-Chlorohexane	55	8.579	8.579	0.000	89	56142	10.0	10.8	
86 3-Chlorobenzotrifluoride	180	8.592	8.592	0.000	90	71152	10.0	9.88	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	96	69037	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
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	97	72032	10.0	9.91	
96 Cyclohexanone	55	9.802	9.802	0.000	90	19994	100.0	100.6	
103 3-Chlorotoluene	126	10.240	10.240	0.000	97	52349	10.0	10.0	
107 Pentachloroethane	167	10.617	10.617	0.000	84	19361	10.0	9.59	
112 Dicyclopentadiene	66	10.982	10.982	0.000	95	199113	10.0	9.42	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	98	182411	10.0	10.0	
143 Benzyl chloride	126	11.135	11.135	0.000	99	16897	10.0	9.36	
118 1,3,5-Trichlorobenzene	180	12.211	12.211	0.000	97	62532	10.0	9.77	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	95	79517	10.0	10.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 5.00	Units: uL
3MTP_WRK_00049	Amount Added: 5.00	Units: uL
ADD CORP mix_00036	Amount Added: 5.00	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2308.D

Injection Date: 02-Oct-2015 22:28:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 11

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

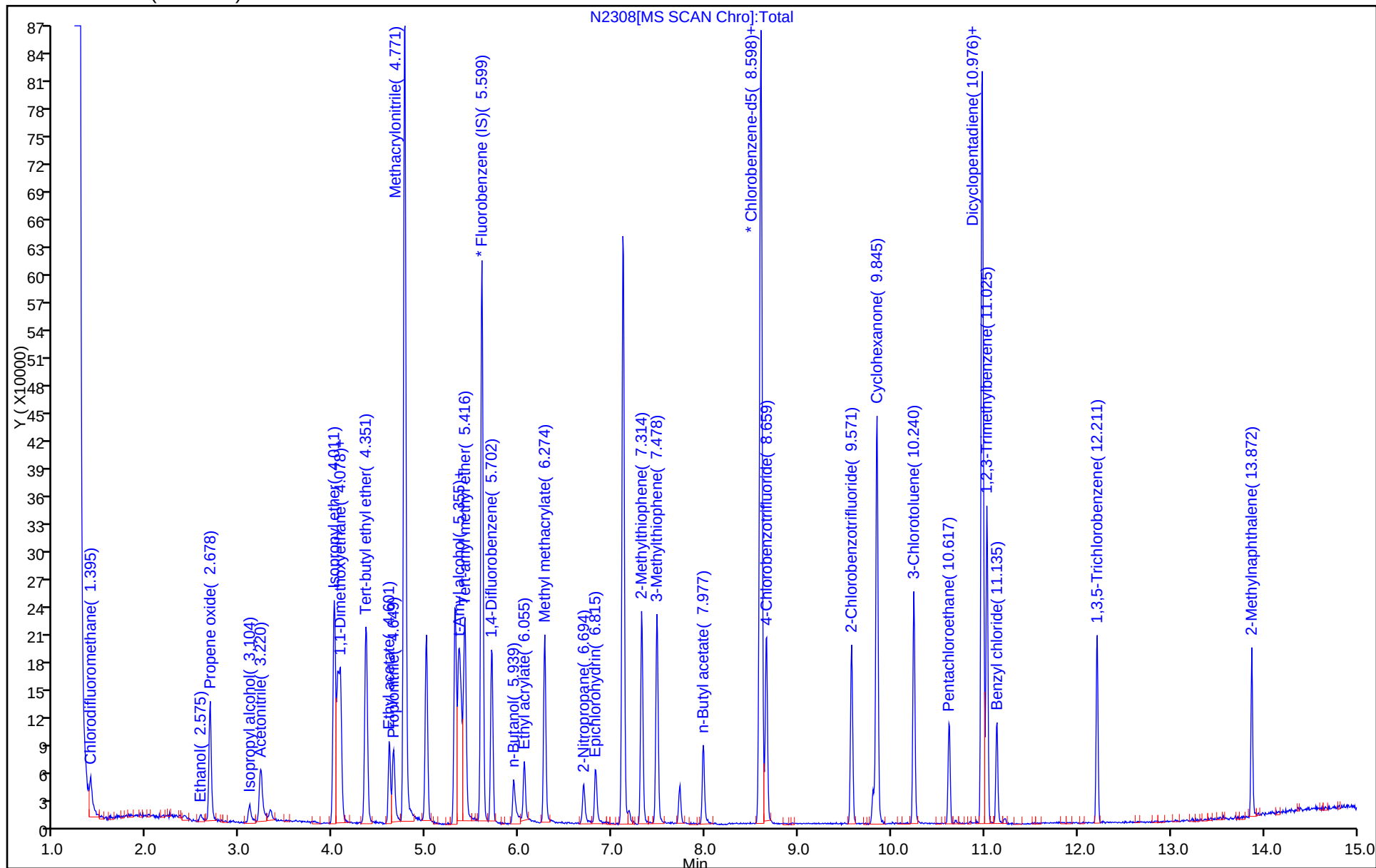
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2308.D

Injection Date: 02-Oct-2015 22:28:30

Instrument ID: HP5973N

Lims ID: IC 11

Client ID:

Operator ID: gtg

ALS Bottle#:

30

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

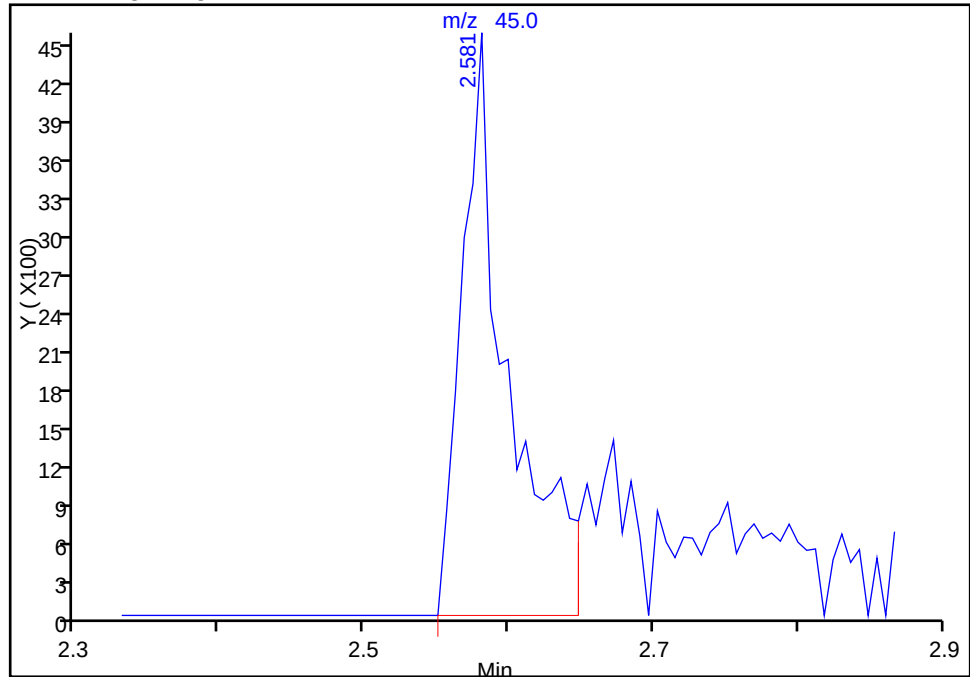
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

141 Ethanol, CAS: 64-17-5

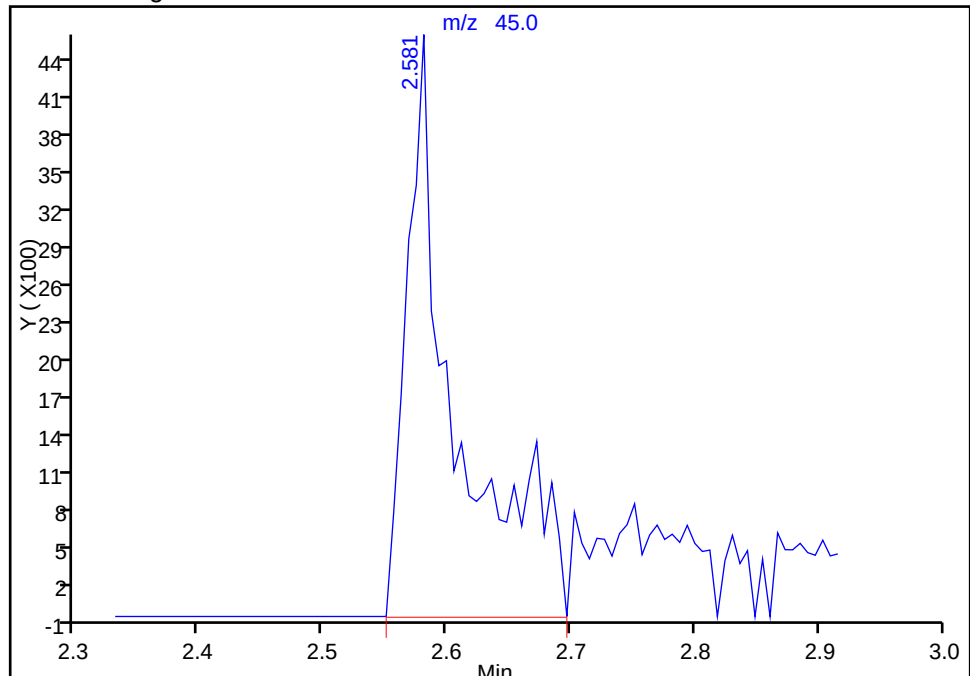
RT: 2.58
Area: 10188
Amount: 336.7579
Amount Units: ug/L

Processing Integration Results



RT: 2.58
Area: 12629
Amount: 403.8660
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 05-Oct-2015 15:49:06

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2308.D

Injection Date: 02-Oct-2015 22:28:30

Instrument ID: HP5973N

Lims ID: IC 11

Client ID:

Operator ID: gtg

ALS Bottle#:

30

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

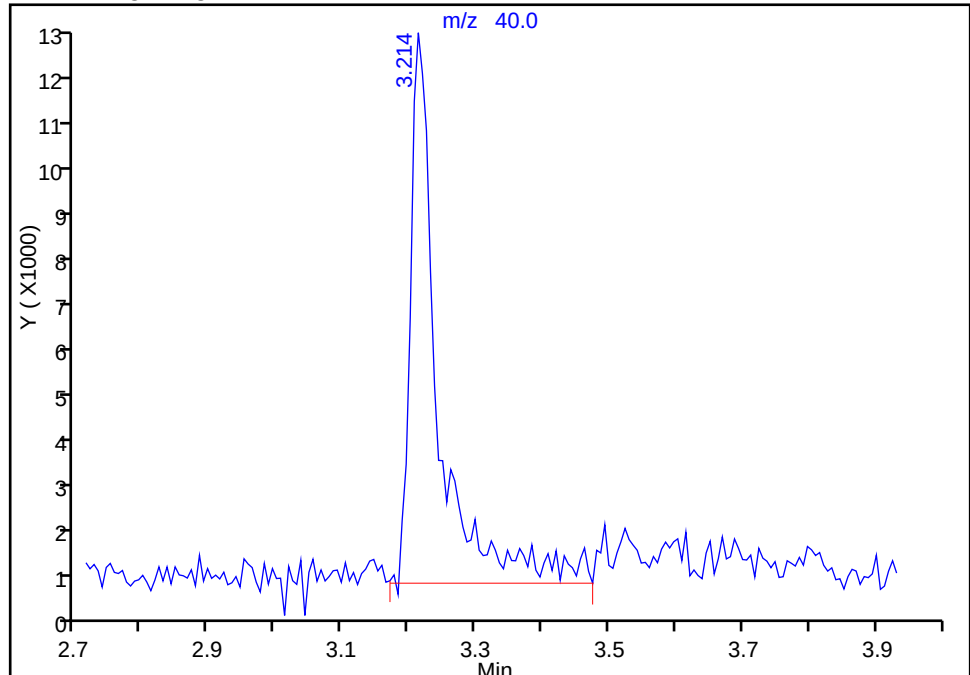
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

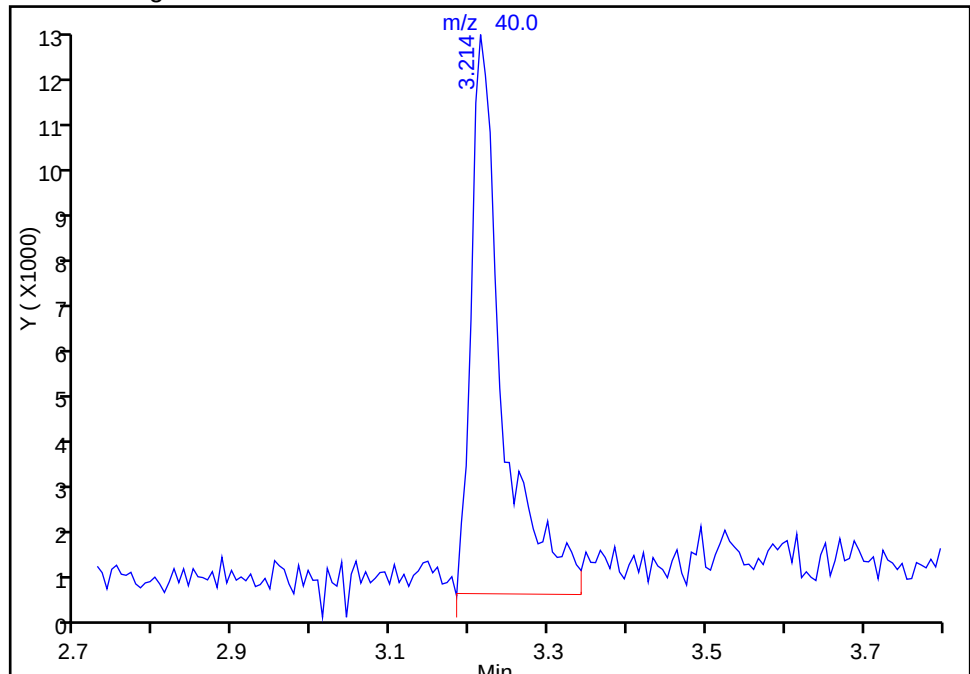
RT: 3.21
Area: 35015
Amount: 97.228766
Amount Units: ug/L

Processing Integration Results



RT: 3.21
Area: 33277
Amount: 89.325843
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 14:15:19

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2309.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 02-Oct-2015 22:55:30 ALS Bottle#: 31 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0046854-022
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:34 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.599	-0.001	98	506460	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	87	378844	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	96	207424	25.0	25.0	
12 Chlorodifluoromethane	51	1.395	1.395	0.000	98	95785	25.0	26.1	
141 Ethanol	45	2.581	2.581	0.000	100	25111	1000.0	799.5	
81 Propene oxide	58	2.678	2.678	0.000	96	225367	NC	NC	
26 Isopropyl alcohol	45	3.098	3.104	-0.006	97	72327	250.0	216.7	M
29 Acetonitrile	40	3.220	3.214	0.006	100	78911	250.0	220.1	
37 Isopropyl ether	45	4.011	4.011	0.000	95	530273	25.0	24.8	
38 2-Chloro-1,3-butadiene	53	4.053	4.047	0.006	94	238959	25.0	25.9	
40 1,1-Dimethoxyethane	75	4.078	4.078	0.000	96	138623	125.0	125.1	
41 Tert-butyl ethyl ether	59	4.351	4.351	0.000	98	475636	25.0	24.9	
45 Ethyl acetate	43	4.601	4.601	0.000	99	285304	50.0	49.9	
46 Propionitrile	54	4.649	4.649	0.000	98	224012	250.0	235.7	
48 Methacrylonitrile	67	4.771	4.765	0.006	97	595575	250.0	247.5	
146 Isooctane	57	5.355	5.349	0.006	97	491690	25.0	24.9	
140 t-Amyl alcohol	59	5.379	5.373	0.006	74	152310	250.0	256.6	
58 Tert-amyl methyl ether	73	5.416	5.416	0.000	95	426843	25.0	24.2	
1 1,4-Difluorobenzene	114	5.708	5.708	0.000	95	370452	25.0	24.2	
61 n-Butanol	56	5.939	5.939	0.000	93	93599	625.0	566.6	
145 Ethyl acrylate	55	6.055	6.055	0.000	99	183284	25.0	26.1	
65 Methyl methacrylate	41	6.274	6.274	0.000	93	303542	50.0	51.2	
68 2-Nitropropane	43	6.694	6.687	0.007	99	88132	50.0	50.4	
70 Epichlorohydrin	57	6.821	6.815	0.006	99	157928	250.0	261.2	
74 2-Methylthiophene	97	7.314	7.314	0.000	98	392725	25.0	22.9	
76 3-Methylthiophene	97	7.478	7.478	0.000	99	413058	25.0	23.6	
149 n-Butyl acetate	43	7.977	7.977	0.000	97	191230	25.0	25.3	
139 1-Chlorohexane	55	8.579	8.579	0.000	90	133392	25.0	25.8	
86 3-Chlorobenzotrifluoride	180	8.598	8.592	0.006	90	188506	25.0	23.6	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	-0.001	96	168294	25.0	22.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	95	188366	25.0	23.4	
96 Cyclohexanone	55	9.808	9.802	0.006	95	54752	250.0	248.7	
103 3-Chlorotoluene	126	10.240	10.240	0.000	97	139827	25.0	24.2	
107 Pentachloroethane	167	10.624	10.617	0.007	88	54319	25.0	24.3	
112 Dicyclopentadiene	66	10.989	10.982	0.007	97	539286	25.0	23.0	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	98	501025	25.0	24.9	
143 Benzyl chloride	126	11.135	11.135	0.000	99	49554	25.0	25.4	
118 1,3,5-Trichlorobenzene	180	12.211	12.211	0.000	98	183666	25.0	25.9	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	93	270415	25.0	30.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 12.50	Units: uL
3MTP_WRK_00049	Amount Added: 12.50	Units: uL
ADD CORP mix_00036	Amount Added: 12.50	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2309.D

Injection Date: 02-Oct-2015 22:55:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 12

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

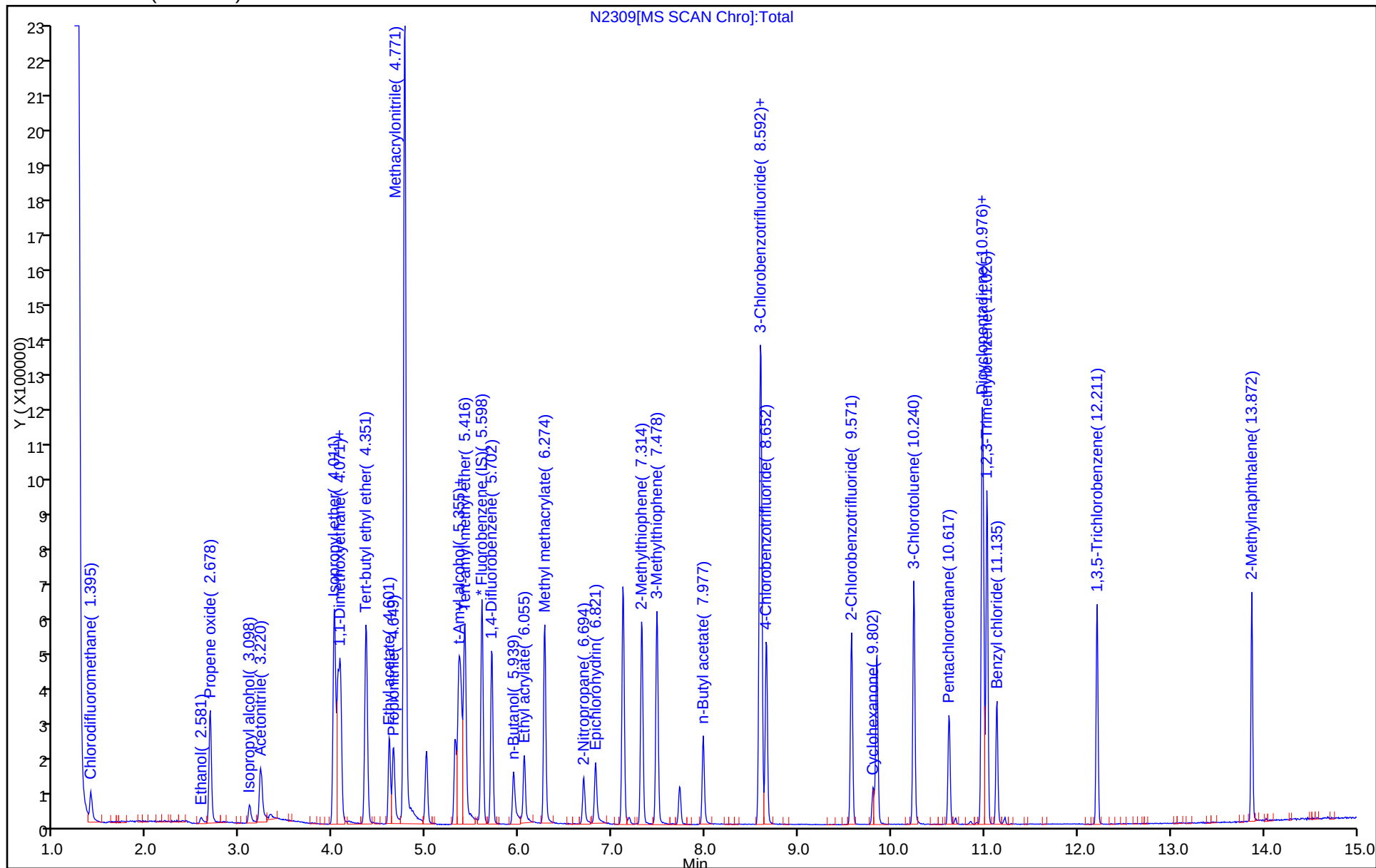
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2309.D

Injection Date: 02-Oct-2015 22:55:30

Instrument ID: HP5973N

Lims ID: IC 12

Client ID:

Operator ID: gtg

ALS Bottle#:

31

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

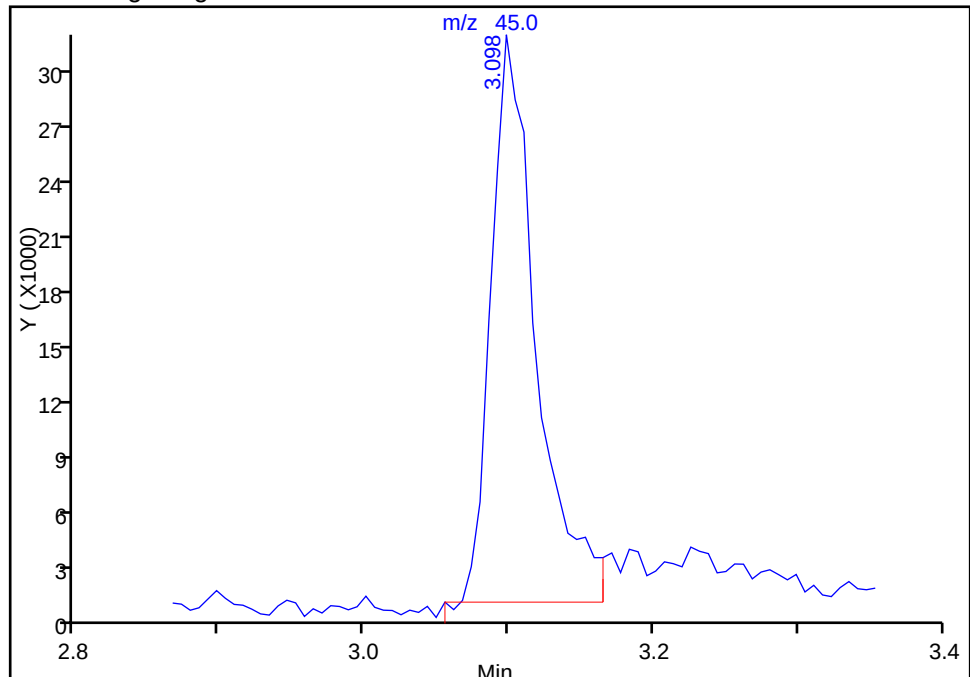
Detector

MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

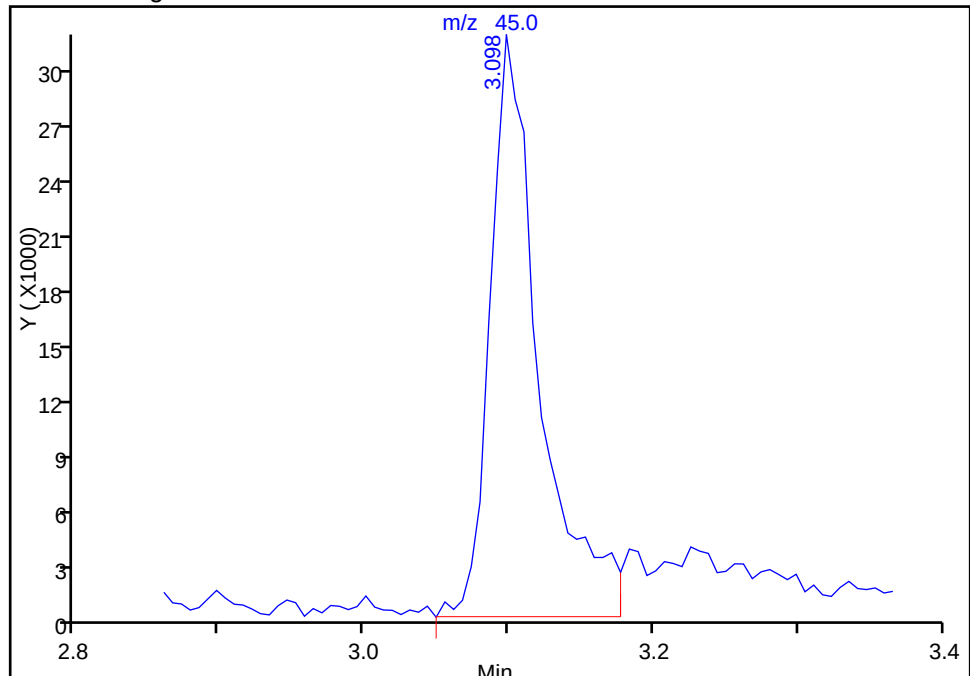
RT: 3.10
Area: 64888
Amount: 193.6179
Amount Units: ug/L

Processing Integration Results



RT: 3.10
Area: 72327
Amount: 216.7340
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:53:35

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2310.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 02-Oct-2015 23:22:30 ALS Bottle#: 32 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0046854-023
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:39 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	-0.001	98	530205	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	86	391601	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	97	203197	25.0	25.0	
12 Chlorodifluoromethane	51	1.395	1.395	0.000	98	215995	50.0	56.3	
141 Ethanol	45	2.575	2.581	-0.006	99	69811	2000.0	2123.2	
81 Propene oxide	58	2.672	2.678	-0.006	95	452760	NC	NC	
26 Isopropyl alcohol	45	3.098	3.104	-0.006	98	190112	500.0	540.7	M
29 Acetonitrile	40	3.214	3.214	0.000	99	202150	500.0	548.5	
37 Isopropyl ether	45	4.011	4.011	0.000	95	1047254	50.0	46.8	
38 2-Chloro-1,3-butadiene	53	4.047	4.047	0.000	94	471344	50.0	48.7	
40 1,1-Dimethoxyethane	75	4.078	4.078	0.000	96	296540	250.0	255.7	
41 Tert-butyl ethyl ether	59	4.351	4.351	0.000	98	917113	50.0	45.9	
45 Ethyl acetate	43	4.601	4.601	0.000	99	622609	100.0	104.1	
46 Propionitrile	54	4.643	4.649	-0.006	98	542159	500.0	544.9	
48 Methacrylonitrile	67	4.771	4.765	0.006	96	1204774	500.0	478.3	
146 Isooctane	57	5.355	5.349	0.006	97	947648	50.0	45.8	
140 t-Amyl alcohol	59	5.379	5.373	0.006	83	343685	500.0	553.1	
58 Tert-amyl methyl ether	73	5.410	5.416	-0.006	95	885901	50.0	48.0	
1 1,4-Difluorobenzene	114	5.702	5.708	-0.006	95	737157	50.0	46.1	
61 n-Butanol	56	5.939	5.939	0.000	94	231847	1250.0	1325.1	
145 Ethyl acrylate	55	6.055	6.055	0.000	99	411952	50.0	56.0	
65 Methyl methacrylate	41	6.274	6.274	0.000	93	634437	100.0	102.3	
68 2-Nitropropane	43	6.694	6.687	0.007	99	202035	100.0	118.1	
70 Epichlorohydrin	57	6.821	6.815	0.006	100	353970	500.0	559.3	
74 2-Methylthiophene	97	7.314	7.314	0.000	98	804457	50.0	47.9	
76 3-Methylthiophene	97	7.478	7.478	0.000	100	840119	50.0	49.1	
149 n-Butyl acetate	43	7.977	7.977	0.000	98	427393	50.0	54.8	
139 1-Chlorohexane	55	8.579	8.579	0.000	91	264357	50.0	50.3	
86 3-Chlorobenzotrifluoride	180	8.598	8.592	0.006	93	372587	50.0	47.7	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	96	361406	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	97	374236	50.0	47.5	
96 Cyclohexanone	55	9.802	9.802	0.000	97	122359	500.0	567.4	
103 3-Chlorotoluene	126	10.240	10.240	0.000	97	280109	50.0	49.5	
107 Pentachloroethane	167	10.617	10.617	0.000	89	108410	50.0	49.5	
112 Dicyclopentadiene	66	10.989	10.982	0.007	97	1009781	50.0	44.0	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	98	948682	50.0	48.0	
143 Benzyl chloride	126	11.135	11.135	0.000	99	100629	50.0	49.4	
118 1,3,5-Trichlorobenzene	180	12.211	12.211	0.000	98	328323	50.0	47.3	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	93	505234	50.0	58.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 25.00	Units: uL
3MTP_WRK_00049	Amount Added: 25.00	Units: uL
ADD CORP mix_00036	Amount Added: 25.00	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2310.D

Injection Date: 02-Oct-2015 23:22:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 13

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

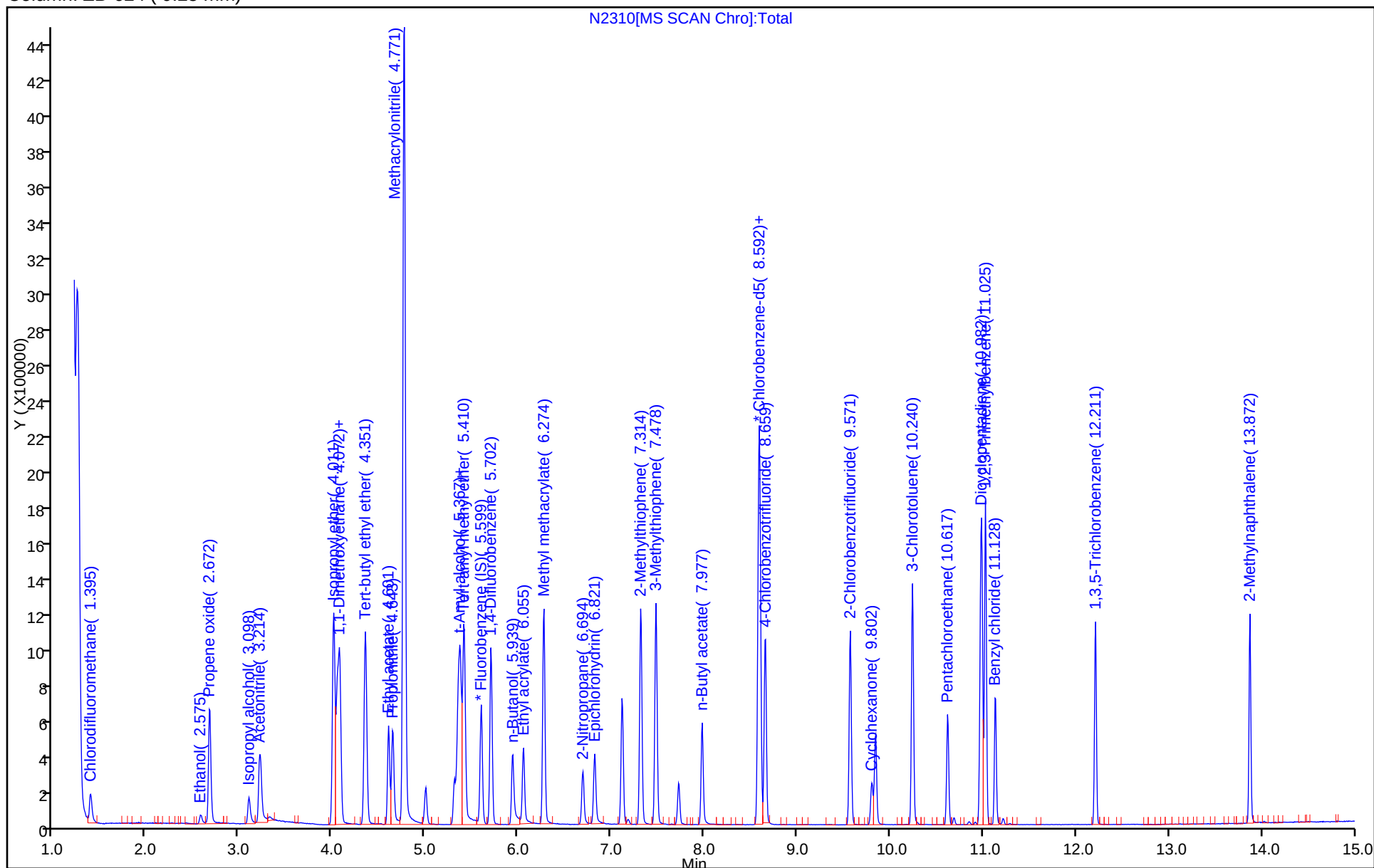
Dil. Factor: 1.0000

ALS Bottle#: 32

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2310.D

Injection Date: 02-Oct-2015 23:22:30

Instrument ID: HP5973N

Lims ID: IC 13

Client ID:

Operator ID: gtg

ALS Bottle#:

32

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

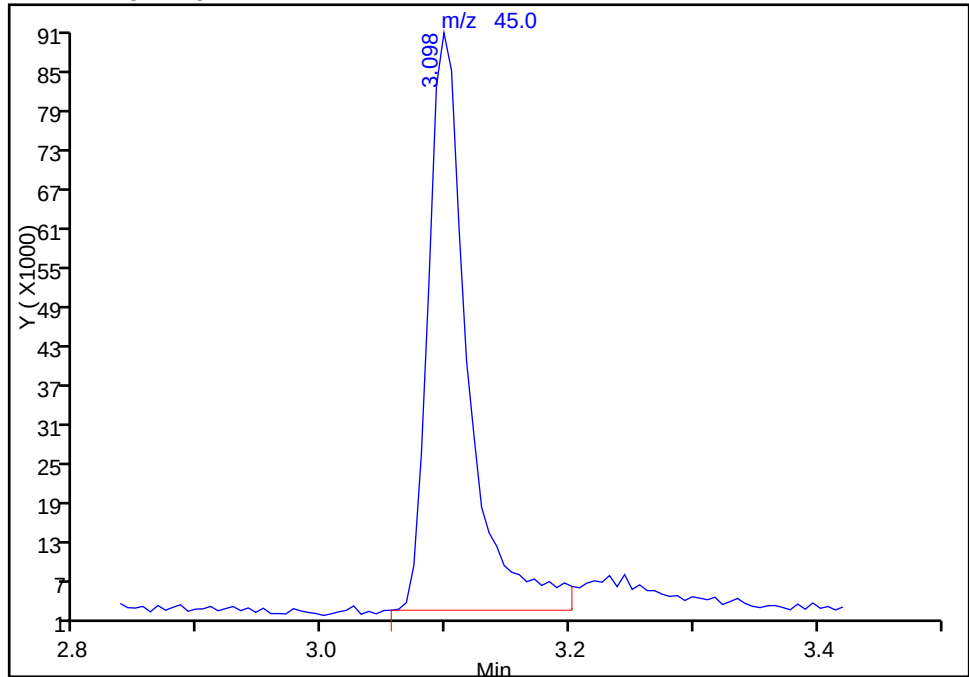
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

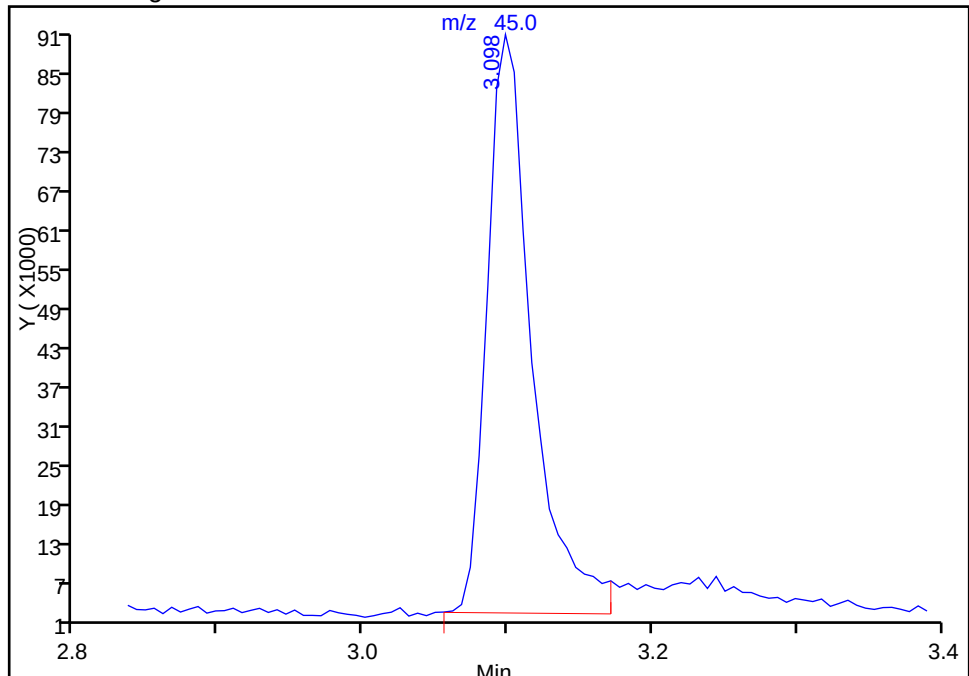
RT: 3.10
Area: 195932
Amount: 566.5462
Amount Units: ug/L

Processing Integration Results



RT: 3.10
Area: 190112
Amount: 540.7099
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:52:27

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Lims ID: IC 14
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 02-Oct-2015 23:49:30 ALS Bottle#: 33 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 14
 Misc. Info.: 480-0046854-024
 Operator ID: gtg Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub43
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Oct-2015 16:47:45 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: HillL

Date: 05-Oct-2015 16:47:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	529841	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.604	8.598	0.006	87	399017	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.971	10.970	0.001	94	210847	25.0	25.0	
12 Chlorodifluoromethane	51	1.395	1.395	0.000	99	462950	100.0	120.7	
141 Ethanol	45	2.587	2.581	0.006	100	141574	4000.0	4308.8	
81 Propene oxide	58	2.679	2.678	0.001	96	847190	NC	NC	
26 Isopropyl alcohol	45	3.098	3.104	-0.006	98	348126	1000.0	988.9	M
29 Acetonitrile	40	3.214	3.214	0.000	100	361034	1000.0	985.7	
37 Isopropyl ether	45	4.011	4.011	0.000	95	2007495	100.0	89.9	
38 2-Chloro-1,3-butadiene	53	4.053	4.047	0.006	95	904192	100.0	93.6	
40 1,1-Dimethoxyethane	75	4.078	4.078	0.000	96	607826	500.0	524.4	
41 Tert-butyl ethyl ether	59	4.352	4.351	0.001	98	1787268	100.0	89.6	
45 Ethyl acetate	43	4.601	4.601	0.000	99	1199970	200.0	200.8	
46 Propionitrile	54	4.650	4.649	0.001	98	949050	1000.0	954.5	
48 Methacrylonitrile	67	4.771	4.765	0.006	93	2260941	1000.0	898.2	
146 Isooctane	57	5.361	5.349	0.012	95	1784994	100.0	86.3	
140 t-Amyl alcohol	59	5.380	5.373	0.007	81	668957	1000.0	1077.2	
58 Tert-amyl methyl ether	73	5.416	5.416	0.000	95	1690586	100.0	91.7	
1 1,4-Difluorobenzene	114	5.708	5.708	0.000	95	1414130	100.0	88.4	
61 n-Butanol	56	5.939	5.939	0.000	92	447867	2500.0	2550.9	
145 Ethyl acrylate	55	6.055	6.055	0.000	99	815692	100.0	110.9	
65 Methyl methacrylate	41	6.274	6.274	0.000	93	1217176	200.0	196.4	
68 2-Nitropropane	43	6.694	6.687	0.007	99	432116	200.0	243.3	
70 Epichlorohydrin	57	6.822	6.815	0.007	100	689681	1000.0	1090.4	
74 2-Methylthiophene	97	7.314	7.314	0.000	98	1548231	100.0	88.8	
76 3-Methylthiophene	97	7.479	7.478	0.001	99	1618805	100.0	91.2	
149 n-Butyl acetate	43	7.977	7.977	0.000	98	833477	100.0	104.8	
139 1-Chlorohexane	55	8.580	8.579	0.001	92	518724	100.0	97.7	
86 3-Chlorobenzotrifluoride	180	8.598	8.592	0.006	93	741038	100.0	91.4	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	96	697427	100.0	91.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	96	752699	100.0	92.0	
96 Cyclohexanone	55	9.802	9.802	0.000	96	228996	1000.0	1023.4	
103 3-Chlorotoluene	126	10.240	10.240	0.000	97	556179	100.0	94.6	
107 Pentachloroethane	167	10.618	10.617	0.001	89	221147	100.0	97.4	
112 Dicyclopentadiene	66	10.989	10.982	0.007	97	1978497	100.0	83.1	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	98	1846351	100.0	90.1	
143 Benzyl chloride	126	11.135	11.135	0.000	99	211099	100.0	101.2	
118 1,3,5-Trichlorobenzene	180	12.212	12.211	0.001	98	674733	100.0	93.7	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	93	1288431	100.0	144.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00047	Amount Added: 50.00	Units: uL
3MTP_WRK_00049	Amount Added: 50.00	Units: uL
ADD CORP mix_00036	Amount Added: 50.00	Units: uL
N 8260 IS_00004	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151002-46854.b\\N2311.D

Injection Date: 02-Oct-2015 23:49:30

Instrument ID: HP5973N

Operator ID: gtg

Lims ID: IC 14

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

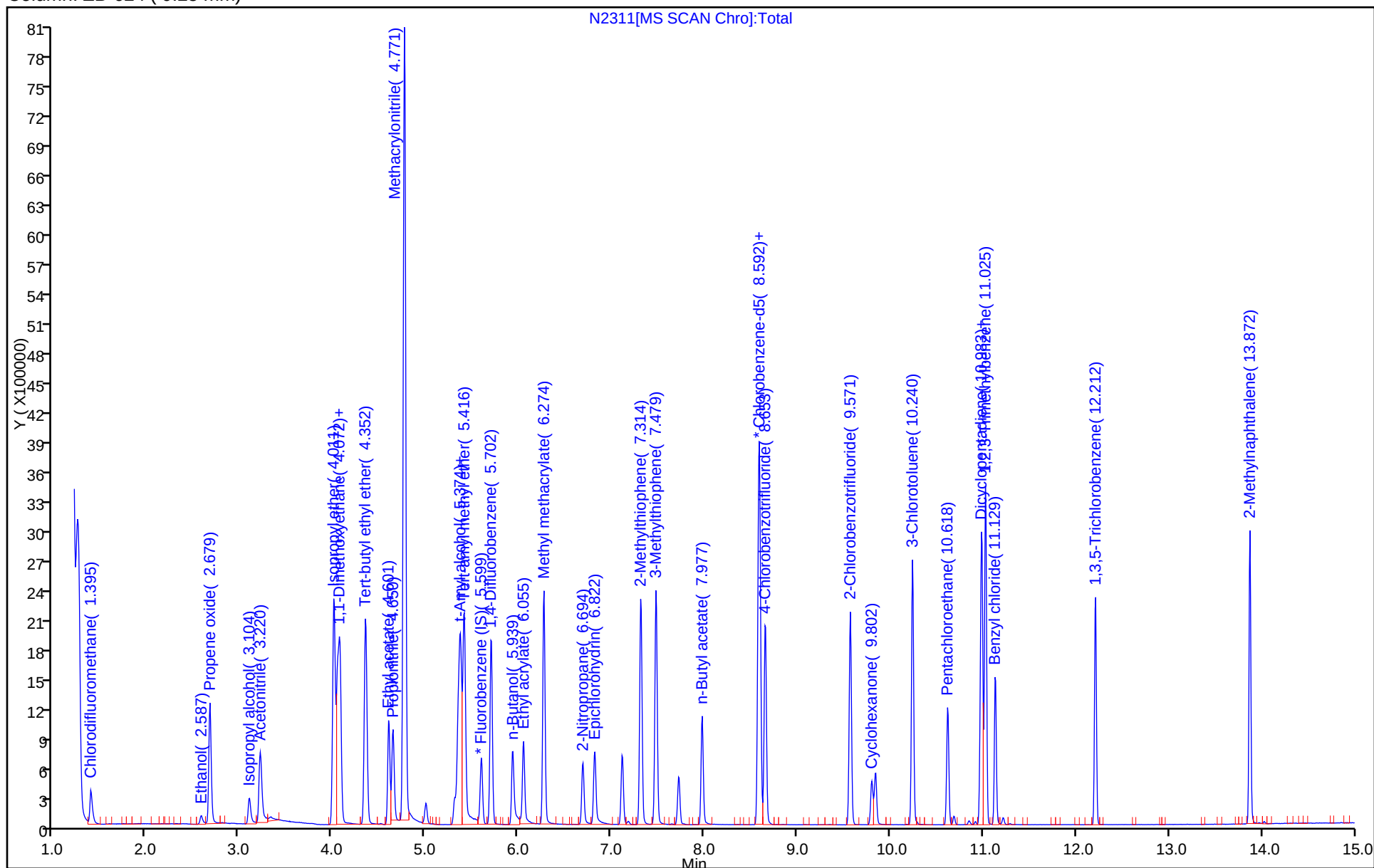
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D

Injection Date: 02-Oct-2015 23:49:30

Instrument ID: HP5973N

Lims ID: IC 14

Client ID:

Operator ID: gtg

ALS Bottle#:

33

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

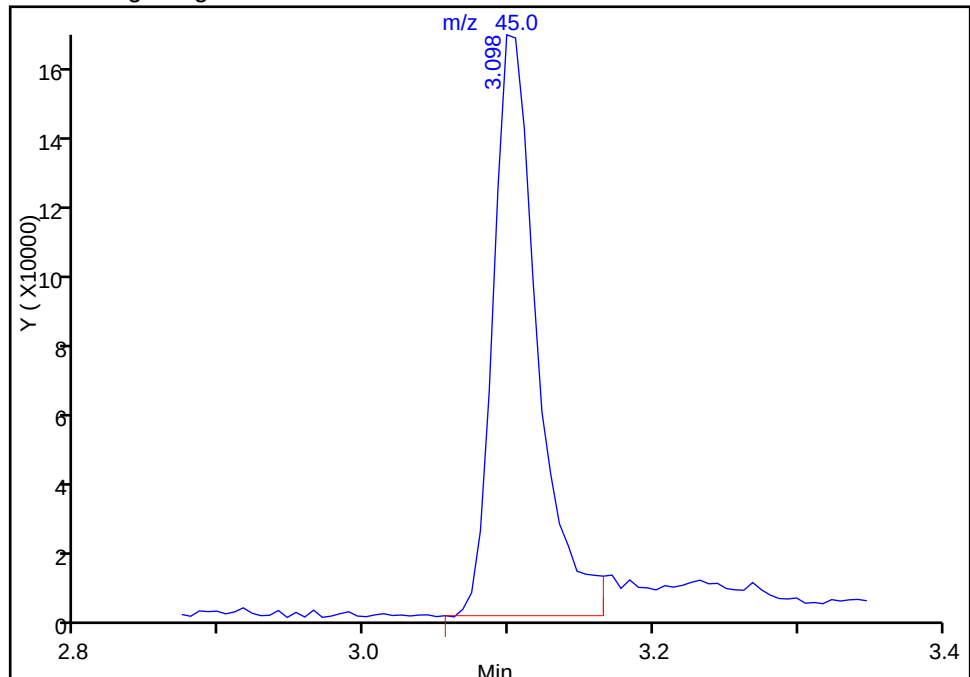
Detector

MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

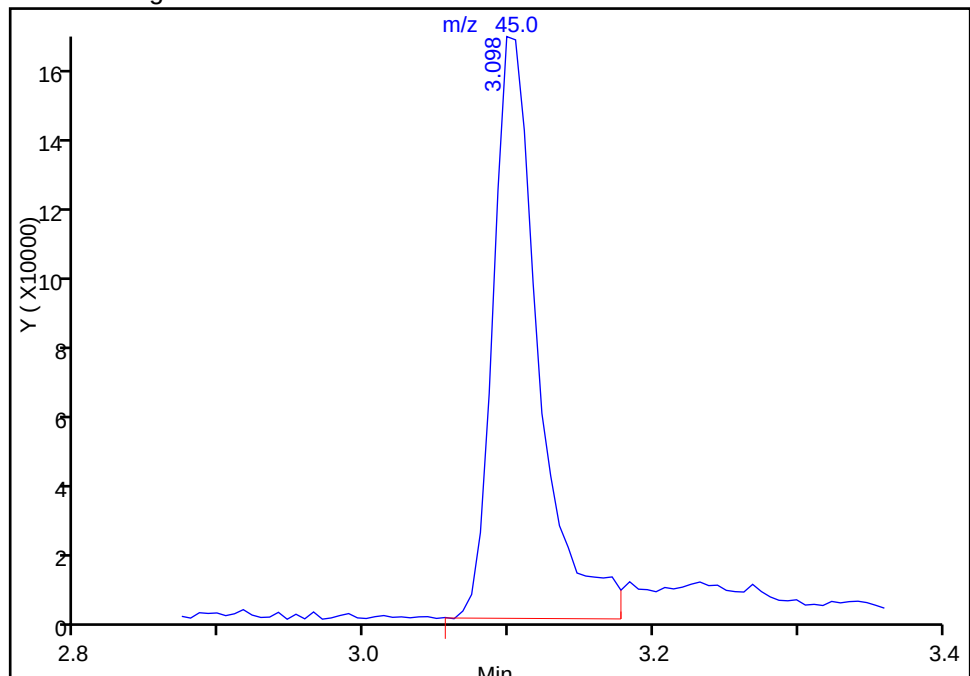
RT: 3.10
Area: 339391
Amount: 971.4700
Amount Units: ug/L

Processing Integration Results



RT: 3.10
Area: 348126
Amount: 988.8996
Amount Units: ug/L

Manual Integration Results



Reviewer: goliszekg, 05-Oct-2015 13:53:00

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1

SDG No.: _____

Lab Sample ID: CCVIS 480-270230/2 Calibration Date: 10/21/2015 22:55

Instrument ID: HP5973N Calib Start Date: 10/02/2015 15:48

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/02/2015 18:55

Lab File ID: N3201.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	0.3228	0.2975	0.1000	23.0	25.0	-7.8	50.0
Chloromethane	Ave	0.4052	0.3290	0.1000	20.3	25.0	-18.8	20.0
Vinyl chloride	Ave	0.2848	0.2441	0.1000	21.4	25.0	-14.3	20.0
Butadiene	Ave	0.2920	0.2925		25.0	25.0	0.2	20.0
Bromomethane	Ave	0.1432	0.1420	0.1000	24.8	25.0	-0.8	50.0
Chloroethane	Ave	0.1353	0.1444	0.1000	26.7	25.0	6.7	50.0
Dichlorofluoromethane	Ave	0.4029	0.3636		22.6	25.0	-9.8	20.0
Trichlorofluoromethane	Ave	0.3711	0.4303	0.1000	29.0	25.0	16.0	20.0
Ethyl ether	Ave	0.2850	0.2855		25.0	25.0	0.2	20.0
Acrolein	Ave	0.0353	0.0336		119	125	-4.8	50.0
1,1-Dichloroethene	Ave	0.2424	0.2364	0.1000	24.4	25.0	-2.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2584	0.2688	0.1000	26.0	25.0	4.0	20.0
Acetone	Ave	0.1267	0.1340	0.1000	132	125	5.7	50.0
Iodomethane	Ave	0.4195	0.4358		26.0	25.0	3.9	20.0
Carbon disulfide	Ave	0.7160	0.7225	0.1000	25.2	25.0	0.9	20.0
Allyl chloride	Ave	0.5714	0.5114		22.4	25.0	-10.5	20.0
Methyl acetate	Ave	0.3462	0.2916	0.1000	105	125	-15.8	50.0
Methylene Chloride	Lin1		0.2639	0.1000	26.6	25.0	6.3	20.0
2-Methyl-2-propanol	Ave	0.0326	0.0306		235	250	-6.1	50.0
Methyl tert-butyl ether	Ave	0.8272	0.7829	0.1000	23.7	25.0	-5.4	20.0
trans-1,2-Dichloroethene	Ave	0.2684	0.2634	0.1000	24.5	25.0	-1.9	20.0
Acrylonitrile	Ave	0.1484	0.1253		211	250	-15.5	20.0
Hexane	Ave	0.4490	0.4331		24.1	25.0	-3.5	20.0
1,1-Dichloroethane	Ave	0.4943	0.4879	0.2000	24.7	25.0	-1.3	20.0
Vinyl acetate	Ave	0.5974	0.6412		53.7	50.0	7.3	20.0
2,2-Dichloropropane	Ave	0.2200	0.2397		27.2	25.0	9.0	20.0
cis-1,2-Dichloroethene	Ave	0.2821	0.2650	0.1000	23.5	25.0	-6.0	20.0
2-Butanone (MEK)	Ave	0.1815	0.1709	0.1000	118	125	-5.8	20.0
Chlorobromomethane	Ave	0.1420	0.1465		25.8	25.0	3.2	20.0
Tetrahydrofuran	Ave	0.1306	0.1057		40.5	50.0	-19.1	20.0
Chloroform	Ave	0.4606	0.4691	0.2000	25.5	25.0	1.8	20.0
1,1,1-Trichloroethane	Ave	0.3730	0.4094	0.1000	27.4	25.0	9.7	20.0
Cyclohexane	Ave	0.5304	0.4975	0.1000	23.5	25.0	-6.2	20.0
Carbon tetrachloride	Ave	0.3544	0.4016	0.1000	28.3	25.0	13.3	20.0
1,1-Dichloropropene	Ave	0.3398	0.3438		25.3	25.0	1.2	20.0
Isobutyl alcohol	Ave	0.0168	0.0128		475	625	-24.0	50.0
Benzene	Ave	1.012	0.9615	0.5000	23.8	25.0	-5.0	20.0
1,2-Dichloroethane	Ave	0.4425	0.4401	0.1000	24.9	25.0	-0.5	20.0
n-Heptane	Ave	0.5020	0.4572		22.8	25.0	-8.9	20.0
Trichloroethene	Ave	0.2662	0.2655	0.2000	24.9	25.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1

SDG No.: _____

Lab Sample ID: CCVIS 480-270230/2 Calibration Date: 10/21/2015 22:55

Instrument ID: HP5973N Calib Start Date: 10/02/2015 15:48

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/02/2015 18:55

Lab File ID: N3201.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4243	0.4067	0.1000	24.0	25.0	-4.1	20.0
1,2-Dichloropropane	Ave	0.2344	0.2320	0.1000	24.7	25.0	-1.0	20.0
Dibromomethane	Ave	0.1550	0.1555	0.1000	25.1	25.0	0.3	20.0
1,4-Dioxane	Ave	0.0031	0.0030		486	500	-2.9	50.0
Bromodichloromethane	Ave	0.2997	0.3215	0.2000	26.8	25.0	7.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1464	0.1281		21.9	25.0	-12.5	20.0
cis-1,3-Dichloropropene	Ave	0.3499	0.3590	0.2000	25.7	25.0	2.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1650	0.1466	0.1000	111	125	-11.1	20.0
Toluene	Lin1		0.8314	0.4000	26.6	25.0	6.3	20.0
trans-1,3-Dichloropropene	Ave	0.4042	0.4301	0.1000	26.6	25.0	6.4	20.0
Ethyl methacrylate	Ave	0.3841	0.3668		23.9	25.0	-4.5	20.0
1,1,2-Trichloroethane	Ave	0.2214	0.2159	0.1000	24.4	25.0	-2.5	20.0
Tetrachloroethene	Ave	0.3959	0.3872	0.2000	24.5	25.0	-2.2	20.0
1,3-Dichloropropane	Ave	0.4965	0.4661		23.5	25.0	-6.1	20.0
2-Hexanone	Ave	0.3066	0.2935	0.1000	120	125	-4.3	20.0
Dibromochloromethane	Ave	0.3001	0.3326	0.1000	27.7	25.0	10.8	20.0
1,2-Dibromoethane	Ave	0.2993	0.2930		24.5	25.0	-2.1	20.0
Chlorobenzene	Ave	0.9424	0.8963	0.5000	23.8	25.0	-4.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3222	0.3560		27.6	25.0	10.5	20.0
Ethylbenzene	Ave	1.515	1.470	0.1000	24.3	25.0	-3.0	20.0
m,p-Xylene	Ave	0.5960	0.6077	0.1000	25.5	25.0	2.0	20.0
o-Xylene	Ave	0.5883	0.5706	0.3000	24.2	25.0	-3.0	20.0
Styrene	Ave	0.9473	0.9519	0.3000	25.1	25.0	0.5	20.0
Bromoform	Ave	0.1778	0.1649	0.1000	23.2	25.0	-7.2	50.0
Isopropylbenzene	Ave	2.889	2.879	0.1000	24.9	25.0	-0.3	20.0
Bromobenzene	Ave	0.7753	0.7515		24.2	25.0	-3.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7279	0.6345	0.3000	21.8	25.0	-12.8	20.0
1,2,3-Trichloropropane	Ave	0.2771	0.2529		22.8	25.0	-8.8	20.0
N-Propylbenzene	Ave	3.350	3.221		24.0	25.0	-3.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3000	0.2137		17.8	25.0	-28.8	50.0
2-Chlorotoluene	Ave	0.6762	0.6900		25.5	25.0	2.0	20.0
1,3,5-Trimethylbenzene	Ave	2.386	2.436		25.5	25.0	2.1	20.0
4-Chlorotoluene	Ave	2.307	2.337		25.3	25.0	1.3	20.0
tert-Butylbenzene	Ave	0.5510	0.5520		25.0	25.0	0.2	20.0
1,2,4-Trimethylbenzene	Ave	2.444	2.470		25.3	25.0	1.0	20.0
sec-Butylbenzene	Ave	2.954	2.934		24.8	25.0	-0.7	20.0
1,3-Dichlorobenzene	Ave	1.506	1.421	0.6000	23.6	25.0	-5.6	20.0
4-Isopropyltoluene	Ave	2.591	2.623		25.3	25.0	1.2	20.0
1,4-Dichlorobenzene	Ave	1.530	1.451	0.5000	23.7	25.0	-5.2	20.0
n-Butylbenzene	Ave	2.145	2.068		24.1	25.0	-3.6	20.0
1,2-Dichlorobenzene	Ave	1.399	1.351	0.4000	24.1	25.0	-3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-270230/2 Calibration Date: 10/21/2015 22:55
 Instrument ID: HP5973N Calib Start Date: 10/02/2015 15:48
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/02/2015 18:55
 Lab File ID: N3201.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	0.1321	0.1181	0.0500	22.4	25.0	-10.6	50.0
1,2,4-Trichlorobenzene	Ave	0.7590	0.6598	0.2000	21.7	25.0	-13.1	20.0
Hexachlorobutadiene	Ave	0.4001	0.3762		23.5	25.0	-6.0	20.0
Naphthalene	Ave	2.143	1.697		19.8	25.0	-20.8*	20.0
1,2,3-Trichlorobenzene	Ave	0.7186	0.6032		21.0	25.0	-16.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2313	0.2409		26.0	25.0	4.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3205	0.3434		26.8	25.0	7.1	20.0
Toluene-d8 (Surr)	Ave	1.134	1.120		24.7	25.0	-1.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3681	0.3562		24.2	25.0	-3.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3201.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Oct-2015 22:55:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0047536-002
 Operator ID: GF Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:02:16 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fortaing

Date: 21-Oct-2015 23:25:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.598	0.000	98	395417	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	87	298654	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.970	0.000	95	156679	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.996	4.996	0.000	94	95260	25.0	26.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.306	5.306	0.000	0	135799	25.0	26.8	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.113	0.000	93	334614	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.844	9.844	0.000	90	106369	25.0	24.2	
11 Dichlorodifluoromethane	85	1.370	1.370	0.000	99	117625	25.0	23.0	
13 Chloromethane	50	1.534	1.534	0.000	100	130097	25.0	20.3	
14 Vinyl chloride	62	1.650	1.650	0.000	97	96505	25.0	21.4	
144 Butadiene	54	1.668	1.668	0.000	99	115667	25.0	25.0	
15 Bromomethane	94	1.966	1.966	0.000	94	56158	25.0	24.8	
16 Chloroethane	64	2.070	2.070	0.000	96	57081	25.0	26.7	
17 Dichlorofluoromethane	67	2.295	2.295	0.000	96	143777	25.0	22.6	
18 Trichlorofluoromethane	101	2.313	2.313	0.000	94	170133	25.0	29.0	
19 Ethyl ether	59	2.593	2.593	0.000	97	112888	25.0	25.0	
20 Acrolein	56	2.757	2.757	0.000	98	66456	125.0	119.0	
22 1,1-Dichloroethene	96	2.818	2.818	0.000	94	93458	25.0	24.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.830	2.830	0.000	94	106276	25.0	26.0	
23 Acetone	43	2.915	2.915	0.000	97	264856	125.0	132.2	
24 Iodomethane	142	2.970	2.970	0.000	100	172337	25.0	26.0	
25 Carbon disulfide	76	3.019	3.019	0.000	99	285697	25.0	25.2	
27 3-Chloro-1-propene	41	3.183	3.183	0.000	85	202213	25.0	22.4	
28 Methyl acetate	43	3.226	3.226	0.000	99	576598	125.0	105.3	
30 Methylene Chloride	84	3.323	3.323	0.000	96	104349	25.0	26.6	
31 2-Methyl-2-propanol	59	3.475	3.475	0.000	94	120984	250.0	234.7	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	97	309568	25.0	23.7	
33 trans-1,2-Dichloroethene	96	3.566	3.566	0.000	95	104161	25.0	24.5	
34 Acrylonitrile	53	3.591	3.591	0.000	96	495586	250.0	211.2	
35 Hexane	57	3.785	3.785	0.000	95	171245	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.980	3.980	0.000	97	192914	25.0	24.7	
39 Vinyl acetate	43	4.029	4.029	0.000	97	507095	50.0	53.7	
42 2,2-Dichloropropane	77	4.509	4.509	0.000	89	94796	25.0	27.2	
43 cis-1,2-Dichloroethene	96	4.534	4.534	0.000	84	104800	25.0	23.5	
44 2-Butanone (MEK)	43	4.558	4.558	0.000	98	337922	125.0	117.7	
47 Chlorobromomethane	128	4.771	4.771	0.000	96	57939	25.0	25.8	
49 Tetrahydrofuran	42	4.795	4.795	0.000	89	83594	50.0	40.5	
50 Chloroform	83	4.844	4.844	0.000	95	185471	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	98	161869	25.0	27.4	
52 Cyclohexane	56	5.002	5.002	0.000	97	196715	25.0	23.5	
53 Carbon tetrachloride	117	5.124	5.124	0.000	97	158779	25.0	28.3	
54 1,1-Dichloropropene	75	5.130	5.130	0.000	89	135957	25.0	25.3	
56 Isobutyl alcohol	43	5.312	5.312	0.000	94	126355	625.0	475.2	
55 Benzene	78	5.330	5.330	0.000	98	380184	25.0	23.8	
57 1,2-Dichloroethane	62	5.379	5.379	0.000	98	174034	25.0	24.9	
59 n-Heptane	43	5.531	5.531	0.000	95	180767	25.0	22.8	
60 Trichloroethene	95	5.945	5.945	0.000	93	104982	25.0	24.9	
62 Methylcyclohexane	83	6.085	6.085	0.000	95	160828	25.0	24.0	
63 1,2-Dichloropropane	63	6.170	6.170	0.000	82	91725	25.0	24.7	
64 Dibromomethane	93	6.304	6.304	0.000	95	61495	25.0	25.1	
66 1,4-Dioxane	88	6.316	6.316	0.000	41	17966	500.0	485.6	
67 Dichlorobromomethane	83	6.456	6.456	0.000	97	127135	25.0	26.8	
69 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	89	50662	25.0	21.9	
71 cis-1,3-Dichloropropene	75	6.876	6.876	0.000	89	141959	25.0	25.7	
72 4-Methyl-2-pentanone (MIBK)	58	7.016	7.016	0.000	99	218874	125.0	111.1	
73 Toluene	92	7.180	7.180	0.000	98	248308	25.0	26.6	
75 trans-1,3-Dichloropropene	75	7.441	7.441	0.000	98	128464	25.0	26.6	
77 Ethyl methacrylate	69	7.496	7.496	0.000	94	109545	25.0	23.9	
78 1,1,2-Trichloroethane	83	7.630	7.630	0.000	95	64483	25.0	24.4	
79 Tetrachloroethene	166	7.721	7.721	0.000	96	115651	25.0	24.5	
80 1,3-Dichloropropane	76	7.794	7.794	0.000	95	139207	25.0	23.5	
82 2-Hexanone	43	7.861	7.861	0.000	98	438194	125.0	119.6	
83 Chlorodibromomethane	129	8.038	8.038	0.000	89	99337	25.0	27.7	
84 Ethylene Dibromide	107	8.141	8.141	0.000	98	87511	25.0	24.5	
85 Chlorobenzene	112	8.628	8.628	0.000	93	267691	25.0	23.8	
89 1,1,1,2-Tetrachloroethane	131	8.719	8.719	0.000	95	106326	25.0	27.6	
88 Ethylbenzene	91	8.725	8.725	0.000	98	439015	25.0	24.3	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	181482	25.0	25.5	
91 o-Xylene	106	9.273	9.273	0.000	97	170401	25.0	24.2	
92 Styrene	104	9.303	9.303	0.000	95	284274	25.0	25.1	
93 Bromoform	173	9.534	9.534	0.000	96	49244	25.0	23.2	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	451098	25.0	24.9	
97 Bromobenzene	156	9.990	9.990	0.000	93	117748	25.0	24.2	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.027	0.000	96	99410	25.0	21.8	
99 1,2,3-Trichloropropane	110	10.063	10.063	0.000	91	39616	25.0	22.8	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	504714	25.0	24.0	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	71	33486	25.0	17.8	
102 2-Chlorotoluene	126	10.179	10.179	0.000	96	108110	25.0	25.5	
104 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	95	381673	25.0	25.5	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	366132	25.0	25.3	
106 tert-Butylbenzene	134	10.568	10.568	0.000	94	86482	25.0	25.0	
108 1,2,4-Trimethylbenzene	105	10.623	10.623	0.000	98	386920	25.0	25.3	

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	10.775	10.775	0.000	95	459703	25.0	24.8	
110 1,3-Dichlorobenzene	146	10.909	10.909	0.000	99	222692	25.0	23.6	
111 4-Isopropyltoluene	119	10.915	10.915	0.000	97	411018	25.0	25.3	
113 1,4-Dichlorobenzene	146	10.994	10.994	0.000	95	227391	25.0	23.7	
115 n-Butylbenzene	91	11.298	11.298	0.000	98	324073	25.0	24.1	
116 1,2-Dichlorobenzene	146	11.341	11.341	0.000	97	211677	25.0	24.1	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.059	0.000	82	18505	25.0	22.4	
119 1,2,4-Trichlorobenzene	180	12.746	12.746	0.000	94	103372	25.0	21.7	
120 Hexachlorobutadiene	225	12.868	12.868	0.000	95	58949	25.0	23.5	
121 Naphthalene	128	12.959	12.959	0.000	97	265961	25.0	19.8	
122 1,2,3-Trichlorobenzene	180	13.160	13.160	0.000	96	94511	25.0	21.0	

Reagents:

8260 CORP mix_00053	Amount Added: 12.50	Units: uL	
GAS CORP mix_00115	Amount Added: 12.50	Units: uL	
N 8260 IS_00004	Amount Added: 1.00	Units: uL	Run Reagent
N_8260_Surr_00148	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20151021-47536.b\\N3201.D

Injection Date: 21-Oct-2015 22:55:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

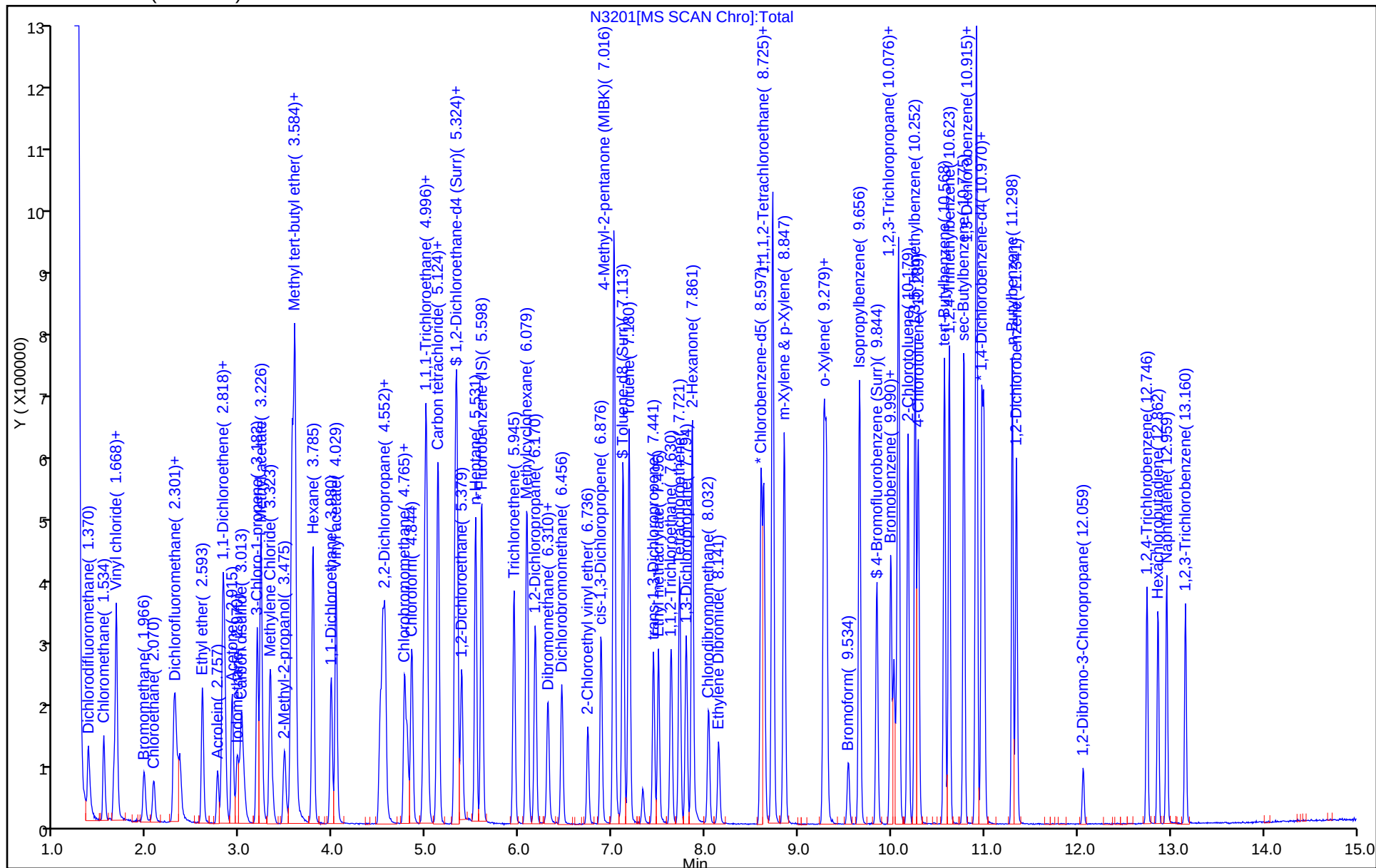
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: N-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.: 480-89018-1
SDG No.: _____
Lab Sample ID: CCV 480-270230/3 Calibration Date: 10/21/2015 23:22
Instrument ID: HP5973N Calib Start Date: 10/02/2015 15:48
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/02/2015 18:55
Lab File ID: N3202.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	0.2313	0.2451		26.5	25.0	6.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3205	0.3492		27.2	25.0	9.0	20.0
Toluene-d8 (Surr)	Ave	1.134	1.093		24.1	25.0	-3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3681	0.3595		24.4	25.0	-2.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3202.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2015 23:22:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0047536-003
 Operator ID: GF Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fortaing

Date: 21-Oct-2015 23:54:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	390230	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	88	293605	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.971	10.971	0.000	96	153059	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.003	5.003	0.000	93	95659	25.0	26.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.313	0.000	0	136277	25.0	27.2	
\$ 6 Toluene-d8 (Surr)	98	7.114	7.114	0.000	94	321002	25.0	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	92	105539	25.0	24.4	
12 Chlorodifluoromethane	51	1.395	1.395	0.000	98	84148	25.0	29.8	
141 Ethanol	45	2.575	2.575	0.000	97	58972	1000.0	2436.9	
81 Propene oxide	58	2.673	2.673	0.000	95	150388	NC	NC	
26 Isopropyl alcohol	45	3.098	3.098	0.000	96	86282	250.0	334.3	
29 Acetonitrile	40	3.214	3.214	0.000	100	96323	250.0	352.7	
37 Isopropyl ether	45	4.011	4.011	0.000	94	388205	25.0	23.6	
38 2-Chloro-1,3-butadiene	53	4.047	4.047	0.000	94	191736	25.0	26.9	
40 1,1-Dimethoxyethane	75	4.072	4.072	0.000	94	86993	125.0	101.9	
41 Tert-butyl ethyl ether	59	4.352	4.352	0.000	97	352573	25.0	24.0	
45 Ethyl acetate	43	4.601	4.601	0.000	99	193078	50.0	43.9	
46 Propionitrile	54	4.644	4.644	0.000	98	184659	250.0	252.2	
48 Methacrylonitrile	67	4.765	4.765	0.000	98	411080	250.0	221.7	
146 Isooctane	57	5.349	5.349	0.000	96	367056	25.0	24.1	
140 t-Amyl alcohol	59	5.380	5.380	0.000	86	101848	250.0	222.7	
58 Tert-amyl methyl ether	73	5.416	5.416	0.000	94	327146	25.0	24.1	
1 1,4-Difluorobenzene	114	5.702	5.702	0.000	95	301380	25.0	25.6	
61 n-Butanol	56	5.939	5.939	0.000	95	63636	625.0	501.3	
145 Ethyl acrylate	55	6.055	6.055	0.000	99	120814	25.0	22.3	
65 Methyl methacrylate	41	6.274	6.274	0.000	92	209113	50.0	45.8	
68 2-Nitropropane	43	6.688	6.688	0.000	95	46967	50.0	36.4	
70 Epichlorohydrin	57	6.815	6.815	0.000	99	94476	250.0	202.8	
149 n-Butyl acetate	43	7.977	7.977	0.000	96	118256	25.0	20.2	
139 1-Chlorohexane	55	8.580	8.580	0.000	84	103678	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
86 3-Chlorobenzotrifluoride	180	8.598	8.598	0.000	91	156878	25.0	26.7	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	96	144928	25.0	26.2	
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	96	151744	25.0	25.6	
96 Cyclohexanone	55	9.802	9.802	0.000	95	36301	250.0	223.5	
103 3-Chlorotoluene	126	10.240	10.240	0.000	96	107940	25.0	25.3	
107 Pentachloroethane	167	10.624	10.624	0.000	86	53101	25.0	32.2	
112 Dicyclopentadiene	66	10.989	10.989	0.000	97	384740	25.0	22.3	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	97	388693	25.0	26.1	
143 Benzyl chloride	126	11.135	11.135	0.000	99	35723	25.0	23.7	
118 1,3,5-Trichlorobenzene	180	12.212	12.212	0.000	98	140447	25.0	26.9	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	93	115179	25.0	17.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00036

Amount Added: 12.50

Units: uL

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

N_8260_Surr_00148

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3202.D

Injection Date: 21-Oct-2015 23:22:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

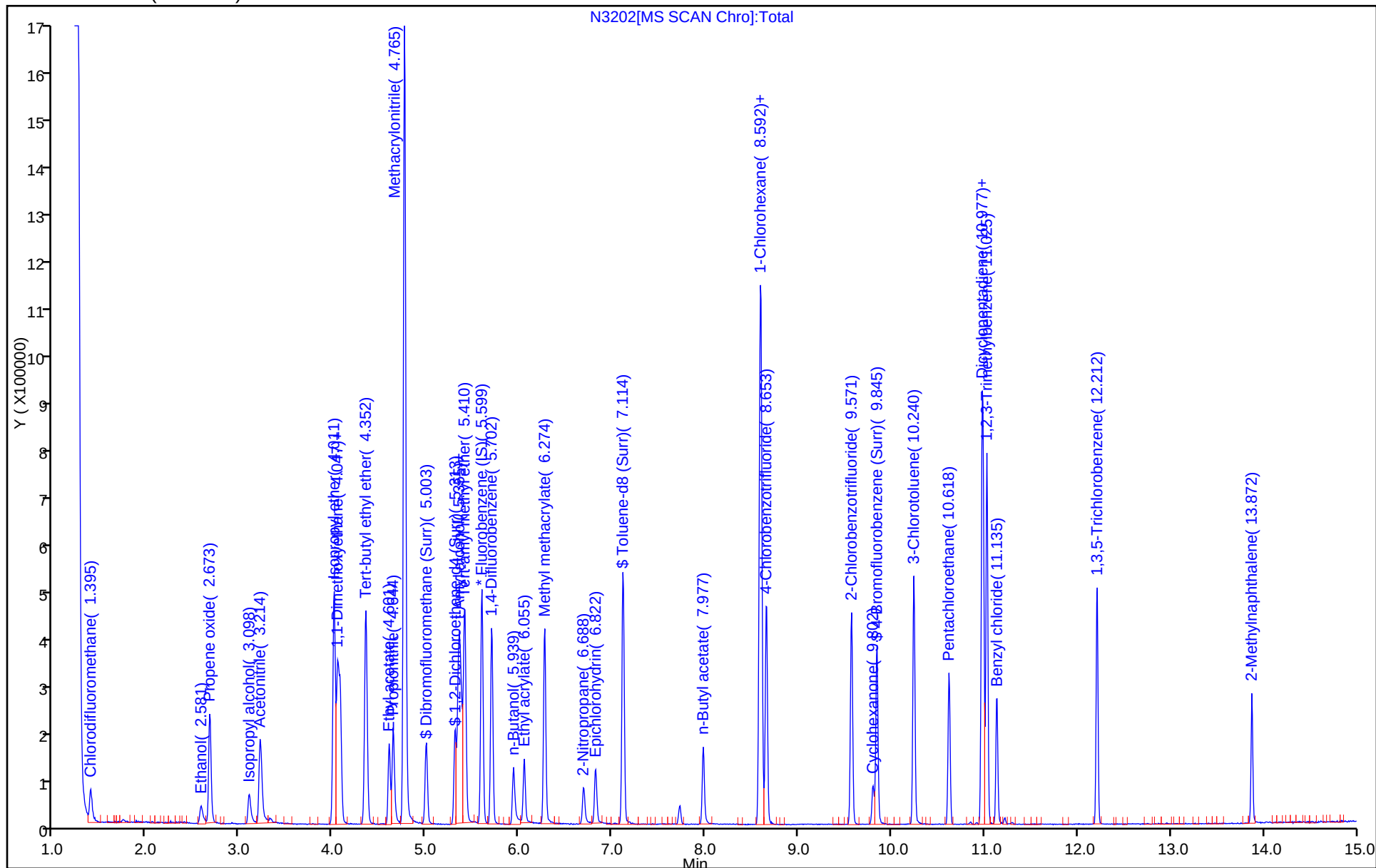
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: N-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.: 480-89018-1

SDG No.: _____

Lab Sample ID: CCV 480-270230/3 Calibration Date: 10/21/2015 23:22

Instrument ID: HP5973N Calib Start Date: 10/02/2015 21:08

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 10/02/2015 23:49

Lab File ID: N3202.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	0.1809	0.2156		29.8	25.0	19.2	20.0
Ethanol	Ave	0.0016	0.0038		2440	1000	143.7*	20.0
Isopropyl alcohol	Lin		0.0221		334	250	33.7*	20.0
Acetonitrile	Lin1		0.0247		353	250	41.1*	20.0
Isopropyl ether	Ave	1.054	0.9948		23.6	25.0	-5.6	20.0
Chloroprene	Ave	0.4560	0.4913		26.9	25.0	7.7	20.0
1,1-Dimethoxyethane	Ave	0.0547	0.0446		102	125	-18.5	20.0
Tert-butyl ethyl ether	Ave	0.9413	0.9035		24.0	25.0	-4.0	20.0
Ethyl acetate	Ave	0.2820	0.2474		43.9	50.0	-12.3	20.0
Propionitrile	Ave	0.0469	0.0473		252	250	0.9	20.0
Methacrylonitrile	Ave	0.1188	0.1053		222	250	-11.3	20.0
Isooctane	Ave	0.9760	0.9406		24.1	25.0	-3.6	20.0
t-Amyl alcohol	Ave	0.0293	0.0261		223	250	-10.9	20.0
Tert-amyl methyl ether	Ave	0.8703	0.8383		24.1	25.0	-3.7	20.0
1,4-Difluorobenzene	Ave	0.7544	0.7723		25.6	25.0	2.4	20.0
n-Butanol	Lin1		0.0065		501	625	-19.8	20.0
Ethyl acrylate	Ave	0.3470	0.3096		22.3	25.0	-10.8	20.0
Methyl methacrylate	Ave	0.2924	0.2679		45.8	50.0	-8.4	20.0
2-Nitropropane	Ave	0.2106	0.1534		36.4	50.0	-27.1*	20.0
Epichlorohydrin	Ave	0.0298	0.0242		203	250	-18.9	20.0
n-Butyl acetate	Ave	0.4983	0.4028	0.1000	20.2	25.0	-19.2	20.0
1-Chlorohexane	Lin1		0.3531		25.9	25.0	3.5	20.0
3-Chlorobenzotrifluoride	Ave	0.9613	1.025		26.7	25.0	6.6	20.0
4-Chlorobenzotrifluoride	Ave	0.9027	0.9469		26.2	25.0	4.9	20.0
2-Chlorobenzotrifluoride	Ave	0.9700	0.9914		25.6	25.0	2.2	20.0
Cyclohexanone	Ave	0.0265	0.0237		223	250	-10.6	20.0
3-Chlorotoluene	Ave	0.6969	0.7052		25.3	25.0	1.2	20.0
Pentachloroethane	Ave	0.2693	0.3469		32.2	25.0	28.8*	20.0
Dicyclopentadiene	Ave	2.822	2.514		22.3	25.0	-10.9	20.0
1,2,3-Trimethylbenzene	Ave	2.430	2.540		26.1	25.0	4.5	20.0
Benzyl chloride	Lin1		0.1217		23.7	25.0	-5.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8542	0.9176		26.9	25.0	7.4	20.0
2-Methylnaphthalene	Ave	1.058	0.7525		17.8	25.0	-28.9*	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3202.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2015 23:22:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0047536-003
 Operator ID: GF Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub55
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fortaing

Date: 21-Oct-2015 23:54:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	390230	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	88	293605	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.971	10.971	0.000	96	153059	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.003	5.003	0.000	93	95659	25.0	26.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.313	5.313	0.000	0	136277	25.0	27.2	
\$ 6 Toluene-d8 (Surr)	98	7.114	7.114	0.000	94	321002	25.0	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	92	105539	25.0	24.4	
12 Chlorodifluoromethane	51	1.395	1.395	0.000	98	84148	25.0	29.8	
141 Ethanol	45	2.575	2.575	0.000	97	58972	1000.0	2436.9	
81 Propene oxide	58	2.673	2.673	0.000	95	150388	NC	NC	
26 Isopropyl alcohol	45	3.098	3.098	0.000	96	86282	250.0	334.3	
29 Acetonitrile	40	3.214	3.214	0.000	100	96323	250.0	352.7	
37 Isopropyl ether	45	4.011	4.011	0.000	94	388205	25.0	23.6	
38 2-Chloro-1,3-butadiene	53	4.047	4.047	0.000	94	191736	25.0	26.9	
40 1,1-Dimethoxyethane	75	4.072	4.072	0.000	94	86993	125.0	101.9	
41 Tert-butyl ethyl ether	59	4.352	4.352	0.000	97	352573	25.0	24.0	
45 Ethyl acetate	43	4.601	4.601	0.000	99	193078	50.0	43.9	
46 Propionitrile	54	4.644	4.644	0.000	98	184659	250.0	252.2	
48 Methacrylonitrile	67	4.765	4.765	0.000	98	411080	250.0	221.7	
146 Isooctane	57	5.349	5.349	0.000	96	367056	25.0	24.1	
140 t-Amyl alcohol	59	5.380	5.380	0.000	86	101848	250.0	222.7	
58 Tert-amyl methyl ether	73	5.416	5.416	0.000	94	327146	25.0	24.1	
1 1,4-Difluorobenzene	114	5.702	5.702	0.000	95	301380	25.0	25.6	
61 n-Butanol	56	5.939	5.939	0.000	95	63636	625.0	501.3	
145 Ethyl acrylate	55	6.055	6.055	0.000	99	120814	25.0	22.3	
65 Methyl methacrylate	41	6.274	6.274	0.000	92	209113	50.0	45.8	
68 2-Nitropropane	43	6.688	6.688	0.000	95	46967	50.0	36.4	
70 Epichlorohydrin	57	6.815	6.815	0.000	99	94476	250.0	202.8	
149 n-Butyl acetate	43	7.977	7.977	0.000	96	118256	25.0	20.2	
139 1-Chlorohexane	55	8.580	8.580	0.000	84	103678	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
86 3-Chlorobenzotrifluoride	180	8.598	8.598	0.000	91	156878	25.0	26.7	
87 4-Chlorobenzotrifluoride	180	8.659	8.659	0.000	96	144928	25.0	26.2	
94 2-Chlorobenzotrifluoride	180	9.571	9.571	0.000	96	151744	25.0	25.6	
96 Cyclohexanone	55	9.802	9.802	0.000	95	36301	250.0	223.5	
103 3-Chlorotoluene	126	10.240	10.240	0.000	96	107940	25.0	25.3	
107 Pentachloroethane	167	10.624	10.624	0.000	86	53101	25.0	32.2	
112 Dicyclopentadiene	66	10.989	10.989	0.000	97	384740	25.0	22.3	
114 1,2,3-Trimethylbenzene	105	11.025	11.025	0.000	97	388693	25.0	26.1	
143 Benzyl chloride	126	11.135	11.135	0.000	99	35723	25.0	23.7	
118 1,3,5-Trichlorobenzene	180	12.212	12.212	0.000	98	140447	25.0	26.9	
142 2-Methylnaphthalene	142	13.872	13.872	0.000	93	115179	25.0	17.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00036

Amount Added: 12.50

Units: uL

N 8260 IS_00004

Amount Added: 1.00

Units: uL

Run Reagent

N_8260_Surr_00148

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3202.D

Injection Date: 21-Oct-2015 23:22:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

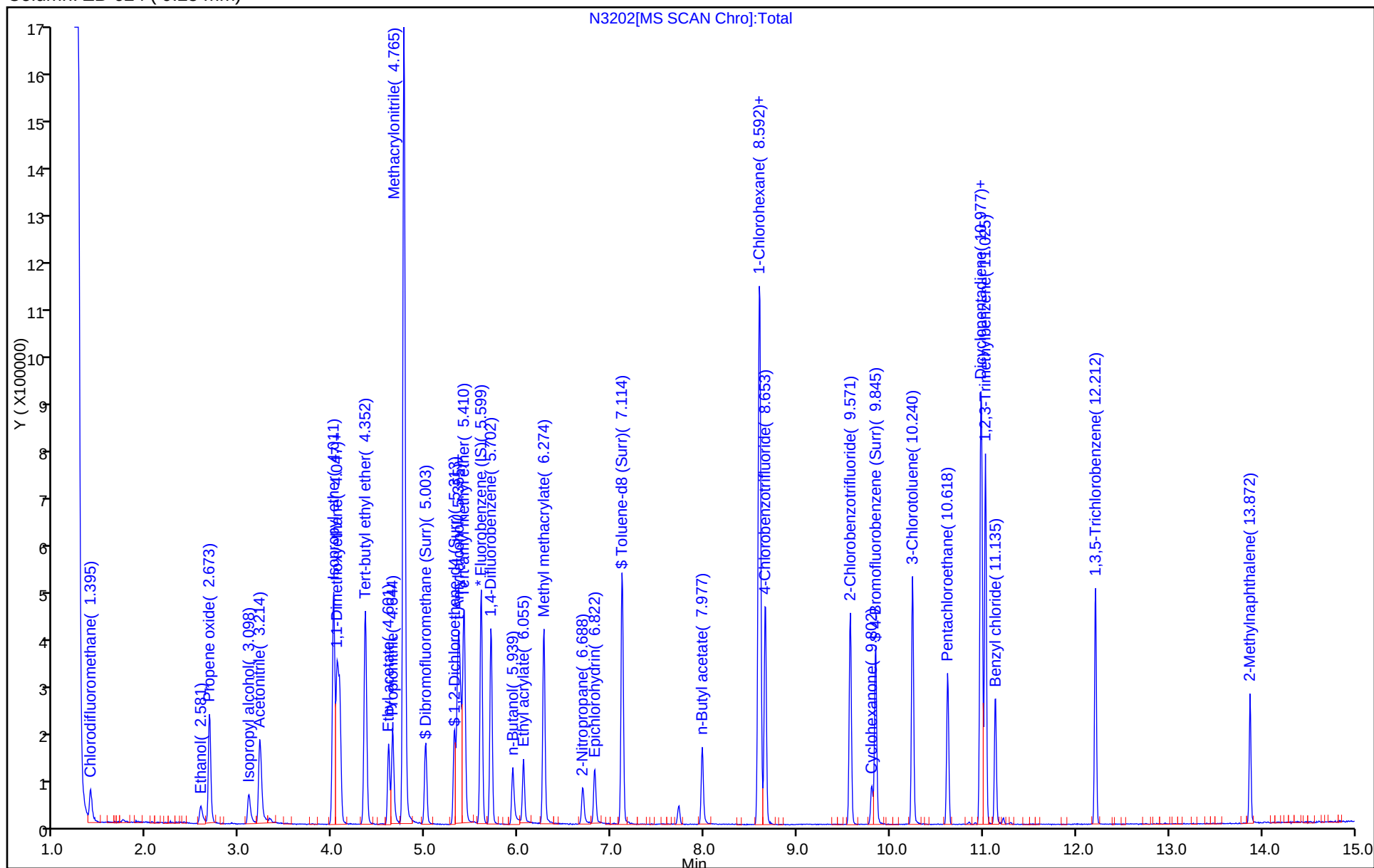
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2291.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Oct-2015 14:56:30 ALS Bottle#: 13 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0046854-004
Operator ID: gtg Instrument ID: HP5973N
Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Oct-2015 15:06:49 Calib Date: 29-Sep-2015 11:13:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20150929-46702.b\N2180.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: goliszekg

Date: 02-Oct-2015 15:06:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 4 BFB	95	4.495	4.495	0.000	87	266309	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00049

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2291.D

Injection Date: 02-Oct-2015 14:56:30

Instrument ID: HP5973N

Lims ID: BFB

Client ID:

Operator ID: gtg

ALS Bottle#: 13

Worklist Smp#: 4

Injection Vol: 1.0 uL

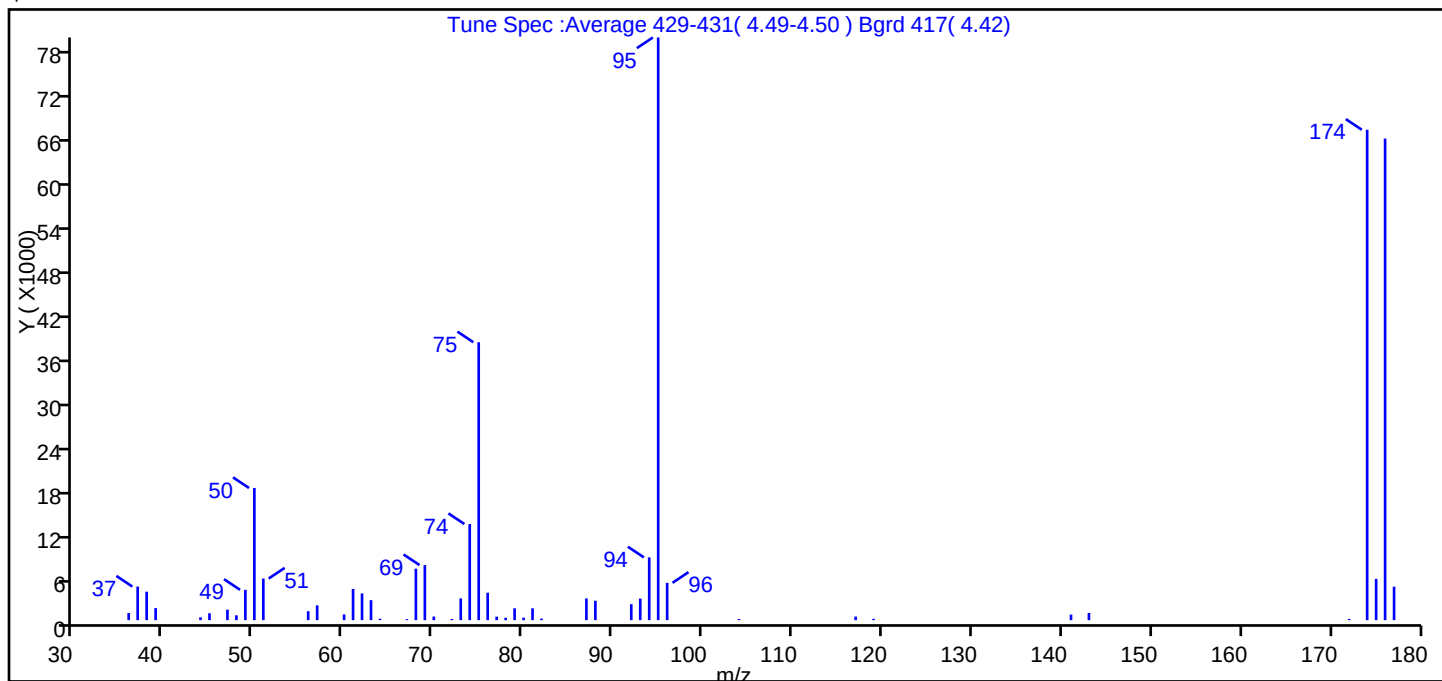
Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.7
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.2
175	5 to 9% of m/z 174	7.1 (8.4)
176	Greater than 95% but less than 101% of m/z 174	82.6 (98.2)
177	5 to 9% of m/z 176	5.7 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2291.D\N-8260.rslt\spectra.d
Injection Date: 02-Oct-2015 14:56:30
Spectrum: Tune Spec :Average 429-431(4.49-4.50) Bgrd 417(4.42)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	975	60.00	784	76.00	3755	96.00	5112
37.00	4598	61.00	4273	77.00	478	104.00	153
38.00	3899	62.00	3662	78.00	327	117.00	491
39.00	1652	63.00	2740	79.00	1619	119.00	175
44.00	392	64.00	186	80.00	340	141.00	761
45.00	948	67.00	143	81.00	1617	143.00	982
47.00	1436	68.00	7047	82.00	213	172.00	164
48.00	662	69.00	7542	87.00	2978	174.00	67168
49.00	4151	70.00	494	88.00	2655	175.00	5647
50.00	18096	72.00	157	92.00	2188	176.00	65960
51.00	5697	73.00	2978	93.00	2952	177.00	4580
56.00	1225	74.00	13163	94.00	8594		
57.00	2026	75.00	38064	95.00	79808		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3200.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 21-Oct-2015 22:24:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0047535-002
Operator ID: GF Instrument ID: HP5973N
Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 22-Oct-2015 15:01:38 Calib Date: 02-Oct-2015 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: goliszekg

Date: 22-Oct-2015 15:01:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 BFB	95	4.482	4.482	0.000	0	149249	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00049

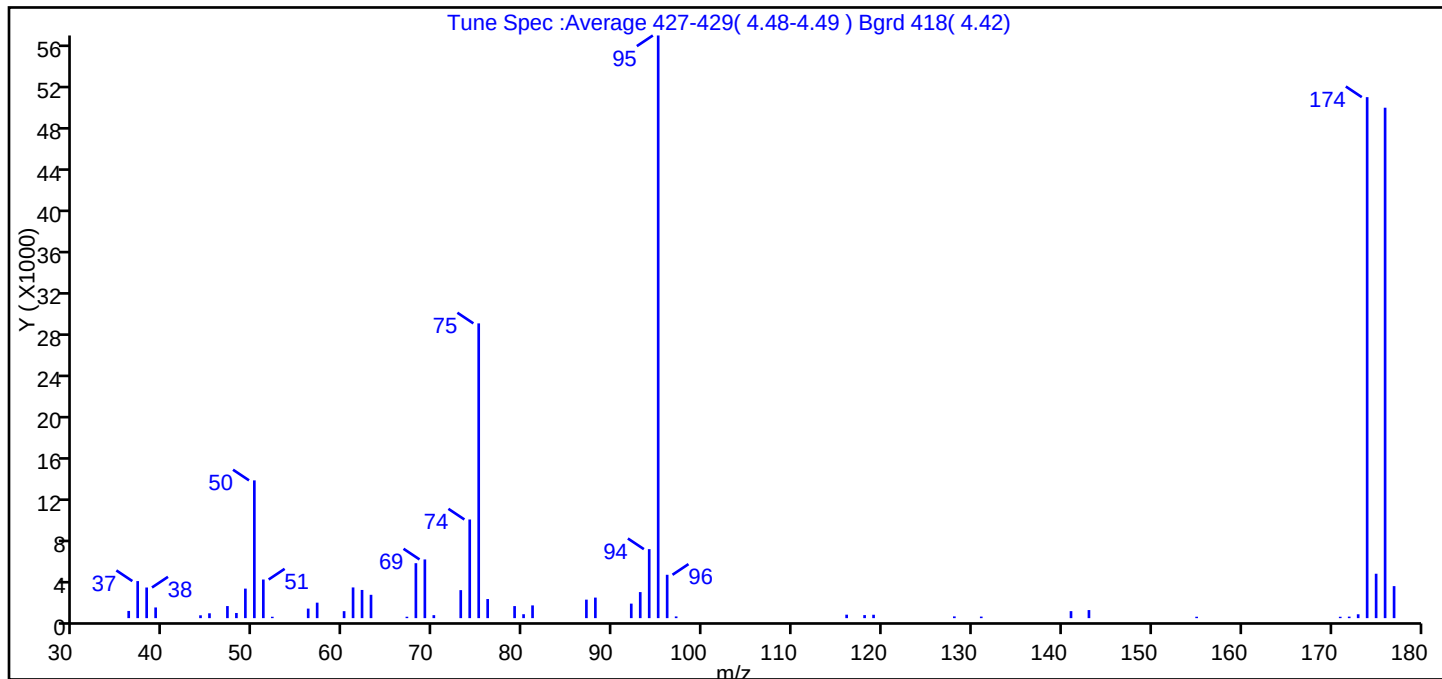
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3200.D
 Injection Date: 21-Oct-2015 22:24:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: GF ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.6
75	30 to 60% of m/z 95	50.6
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.7 (0.7)
174	50 to 120% of m/z 95	89.4
175	5 to 9% of m/z 174	7.6 (8.5)
176	Greater than 95% but less than 101% of m/z 174	87.6 (98.0)
177	5 to 9% of m/z 176	5.5 (6.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3200.D\N-8260.rslt\spectra.d
Injection Date: 21-Oct-2015 22:24:30
Spectrum: Tune Spec :Average 427-429(4.48-4.49) Bgrd 418(4.42)
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	698	57.00	1500	79.00	1169	119.00	329
37.00	3590	60.00	677	80.00	380	128.00	168
38.00	2969	61.00	2975	81.00	1235	131.00	151
39.00	1036	62.00	2731	87.00	1793	141.00	679
44.00	276	63.00	2261	88.00	1991	143.00	782
45.00	470	67.00	137	92.00	1407	155.00	136
47.00	1170	68.00	5324	93.00	2524	171.00	134
48.00	499	69.00	5688	94.00	6685	172.00	148
49.00	2861	70.00	289	95.00	56456	173.00	375
50.00	13348	73.00	2714	96.00	4202	174.00	50480
51.00	3743	74.00	9559	97.00	165	175.00	4303
52.00	135	75.00	28560	116.00	336	176.00	49456
56.00	926	76.00	1852	118.00	296	177.00	3103

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-270230/6

Matrix: Water Lab File ID: N3205.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 10/22/2015 00:42

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 270230 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.: 480-89018-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-270230/6
 Matrix: Water Lab File ID: N3205.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/22/2015 00:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 270230 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)	112		66-137
460-00-4	4-Bromofluorobenzene (Surr)	86		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3205.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 22-Oct-2015 00:42:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0047536-006
 Operator ID: GF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fortaing

Date: 22-Oct-2015 01:01:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.599	5.599	0.000	98	344761	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	87	265344	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.971	-0.001	96	123796	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.996	5.003	-0.007	94	89127	25.0	27.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.307	5.313	-0.006	0	123603	25.0	28.0	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.114	-0.001	94	285694	25.0	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	89	83630	25.0	21.4	
11 Dichlorodifluoromethane	85		1.370					ND	
12 Chlorodifluoromethane	51		1.395					ND	
13 Chloromethane	50		1.534					ND	
14 Vinyl chloride	62		1.650					ND	
144 Butadiene	54		1.668					ND	
15 Bromomethane	94		1.966					ND	
16 Chloroethane	64		2.070					ND	
17 Dichlorofluoromethane	67		2.295					ND	
18 Trichlorofluoromethane	101		2.313					ND	
141 Ethanol	45		2.575					ND	
19 Ethyl ether	59		2.593					ND	
81 Propene oxide	58		2.673					ND	
20 Acrolein	56		2.757					ND	
22 1,1-Dichloroethene	96		2.818					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.830					ND	
23 Acetone	43		2.915					ND	
24 Iodomethane	142		2.970					ND	
25 Carbon disulfide	76		3.019					ND	
26 Isopropyl alcohol	45		3.098					ND	
27 3-Chloro-1-propene	41		3.183					ND	
29 Acetonitrile	40		3.214					ND	
28 Methyl acetate	43		3.226					ND	
30 Methylene Chloride	84		3.323					ND	
31 2-Methyl-2-propanol	59		3.475					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		3.554					ND	
33 trans-1,2-Dichloroethene	96		3.566					ND	
34 Acrylonitrile	53		3.591					ND	
35 Hexane	57		3.785					ND	
36 1,1-Dichloroethane	63		3.980					ND	
37 Isopropyl ether	45		4.011					ND	
39 Vinyl acetate	43		4.029					ND	
38 2-Chloro-1,3-butadiene	53		4.047					ND	
40 1,1-Dimethoxyethane	75		4.072					ND	
41 Tert-butyl ethyl ether	59		4.352					ND	
42 2,2-Dichloropropane	77		4.509					ND	
43 cis-1,2-Dichloroethene	96		4.534					ND	
44 2-Butanone (MEK)	43		4.558					ND	
45 Ethyl acetate	43		4.601					ND	
46 Propionitrile	54		4.644					ND	
48 Methacrylonitrile	67		4.765					ND	
47 Chlorobromomethane	128		4.771					ND	
49 Tetrahydrofuran	42		4.795					ND	
50 Chloroform	83		4.844					ND	
51 1,1,1-Trichloroethane	97		4.978					ND	
52 Cyclohexane	56		5.002					ND	
53 Carbon tetrachloride	117		5.124					ND	
54 1,1-Dichloropropene	75		5.130					ND	
56 Isobutyl alcohol	43		5.312					ND	
55 Benzene	78		5.330					ND	
146 Isooctane	57		5.349					ND	
57 1,2-Dichloroethane	62		5.379					ND	
140 t-Amyl alcohol	59		5.380					ND	
58 Tert-amyl methyl ether	73		5.416					ND	
59 n-Heptane	43		5.531					ND	
1 1,4-Difluorobenzene	114		5.702					ND	
61 n-Butanol	56		5.939					ND	
60 Trichloroethene	95		5.945					ND	
145 Ethyl acrylate	55		6.055					ND	
62 Methylcyclohexane	83		6.085					ND	
63 1,2-Dichloropropane	63		6.170					ND	
65 Methyl methacrylate	41		6.274					ND	
64 Dibromomethane	93		6.304					ND	
66 1,4-Dioxane	88		6.316					ND	
67 Dichlorobromomethane	83		6.456					ND	
68 2-Nitropropane	43		6.688					ND	
69 2-Chloroethyl vinyl ether	63		6.736					ND	
70 Epichlorohydrin	57		6.815					ND	
71 cis-1,3-Dichloropropene	75		6.876					ND	
72 4-Methyl-2-pentanone (MIBK)	58		7.016					ND	
73 Toluene	92		7.180					ND	
74 2-Methylthiophene	97		7.314					ND	
75 trans-1,3-Dichloropropene	75		7.441					ND	
76 3-Methylthiophene	97		7.478					ND	
77 Ethyl methacrylate	69		7.496					ND	
78 1,1,2-Trichloroethane	83		7.630					ND	
79 Tetrachloroethene	166		7.721					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.794					ND	
82 2-Hexanone	43		7.861					ND	
149 n-Butyl acetate	43		7.977					ND	
83 Chlorodibromomethane	129		8.038					ND	
84 Ethylene Dibromide	107		8.141					ND	
139 1-Chlorohexane	55		8.580					ND	
86 3-Chlorobenzotrifluoride	180		8.598					ND	
85 Chlorobenzene	112		8.628					ND	
87 4-Chlorobenzotrifluoride	180		8.659					ND	
89 1,1,1,2-Tetrachloroethane	131		8.719					ND	
88 Ethylbenzene	91		8.725					ND	
90 m-Xylene & p-Xylene	106		8.847					ND	
91 o-Xylene	106		9.273					ND	
92 Styrene	104		9.303					ND	
93 Bromoform	173		9.534					ND	
94 2-Chlorobenzotrifluoride	180		9.571					ND	
95 Isopropylbenzene	105		9.656					ND	
96 Cyclohexanone	55		9.802					ND	
97 Bromobenzene	156		9.990					ND	
98 1,1,2,2-Tetrachloroethane	83		10.027					ND	
99 1,2,3-Trichloropropane	110		10.063					ND	
100 N-Propylbenzene	91		10.076					ND	
101 trans-1,4-Dichloro-2-buten	53		10.076					ND	
102 2-Chlorotoluene	126		10.179					ND	
103 3-Chlorotoluene	126		10.240					ND	
104 1,3,5-Trimethylbenzene	105		10.252					ND	
105 4-Chlorotoluene	91		10.289					ND	
106 tert-Butylbenzene	134		10.568					ND	
108 1,2,4-Trimethylbenzene	105		10.623					ND	
107 Pentachloroethane	167		10.624					ND	
109 sec-Butylbenzene	105		10.775					ND	
110 1,3-Dichlorobenzene	146		10.909					ND	
111 4-Isopropyltoluene	119		10.915					ND	
112 Dicyclopentadiene	66		10.989					ND	
113 1,4-Dichlorobenzene	146		10.994					ND	
114 1,2,3-Trimethylbenzene	105		11.025					ND	
143 Benzyl chloride	126		11.135					ND	
115 n-Butylbenzene	91		11.298					ND	
116 1,2-Dichlorobenzene	146		11.341					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.059					ND	
118 1,3,5-Trichlorobenzene	180		12.212					ND	
119 1,2,4-Trichlorobenzene	180		12.746					ND	
120 Hexachlorobutadiene	225		12.868					ND	
121 Naphthalene	128		12.959					ND	
122 1,2,3-Trichlorobenzene	180		13.160					ND	
142 2-Methylnaphthalene	142		13.872					ND	
133 Halothane	1		0.000					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	

Reagents:

N 8260 IS_00004	Amount Added: 1.00	Units: uL	Run Reagent
N_8260_Surr_00148	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3205.D

Injection Date: 22-Oct-2015 00:42:30

Instrument ID: HP5973N

Operator ID: GF

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

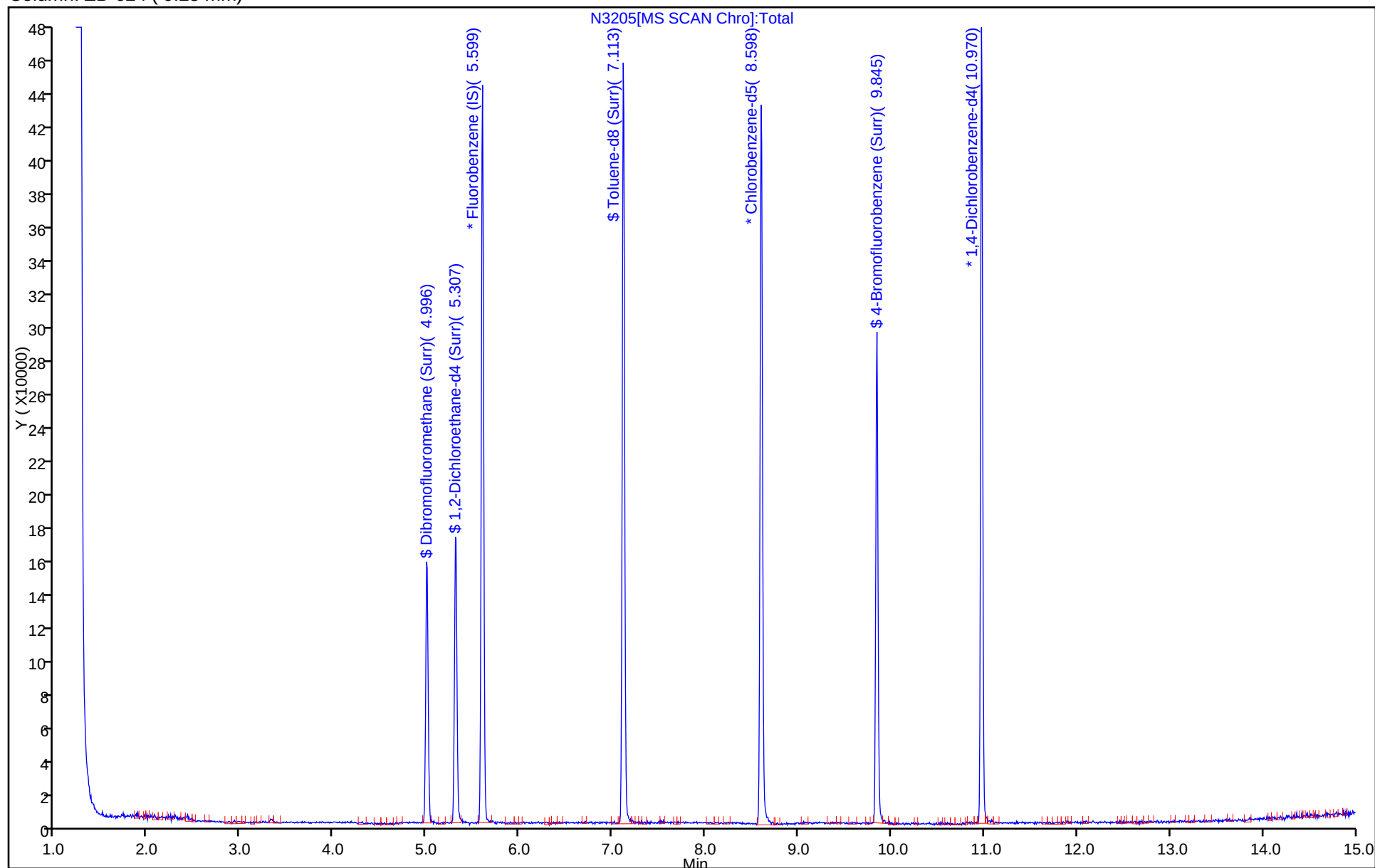
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: N-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.: 480-89018-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-270230/4

Matrix: Water Lab File ID: N3203.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2015 23:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 270230 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.3		1.0	0.23
75-34-3	1,1-Dichloroethane	23.6		1.0	0.38
75-35-4	1,1-Dichloroethene	23.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	20.4		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.0		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	21.3		1.0	0.39
106-93-4	1,2-Dibromoethane	24.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.5		1.0	0.79
107-06-2	1,2-Dichloroethane	23.9		1.0	0.21
78-87-5	1,2-Dichloropropane	23.0		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.4		1.0	0.77
541-73-1	1,3-Dichlorobenzene	23.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.2		1.0	0.84
78-93-3	2-Butanone (MEK)	112		10	1.3
591-78-6	2-Hexanone	118		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	2.1
67-64-1	Acetone	126		10	3.0
71-43-2	Benzene	23.1		1.0	0.41
75-27-4	Bromodichloromethane	25.7		1.0	0.39
75-25-2	Bromoform	22.6		1.0	0.26
74-83-9	Bromomethane	22.8		1.0	0.69
75-15-0	Carbon disulfide	24.1		1.0	0.19
56-23-5	Carbon tetrachloride	26.5		1.0	0.27
108-90-7	Chlorobenzene	23.3		1.0	0.75
75-00-3	Chloroethane	23.8		1.0	0.32
67-66-3	Chloroform	24.1		1.0	0.34
74-87-3	Chloromethane	19.0		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.1		1.0	0.36
110-82-7	Cyclohexane	22.4		1.0	0.18
124-48-1	Dibromochloromethane	26.3		1.0	0.32
75-71-8	Dichlorodifluoromethane	21.5		1.0	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-89018-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-270230/4
 Matrix: Water Lab File ID: N3203.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2015 23:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 270230 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	23.8		1.0	0.74
98-82-8	Isopropylbenzene	23.9		1.0	0.79
79-20-9	Methyl acetate	99.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.2		1.0	0.16
108-87-2	Methylcyclohexane	23.3		1.0	0.16
75-09-2	Methylene Chloride	25.0		1.0	0.44
100-42-5	Styrene	24.9		1.0	0.73
127-18-4	Tetrachloroethene	24.0		1.0	0.36
108-88-3	Toluene	24.8		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.2		1.0	0.37
79-01-6	Trichloroethene	23.6		1.0	0.46
75-69-4	Trichlorofluoromethane	26.6		1.0	0.88
75-01-4	Vinyl chloride	19.6		1.0	0.90
1330-20-7	Xylenes, Total	48.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N3203.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Oct-2015 23:48:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0047536-004
 Operator ID: GF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20151021-47536.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Oct-2015 15:04:22 Calib Date: 02-Oct-2015 23:49:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20151002-46854.b\N2311.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fortaing

Date: 22-Oct-2015 00:19:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.598	5.599	-0.001	98	407132	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.598	8.598	0.000	86	302247	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.970	10.971	-0.001	95	160702	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.002	5.003	-0.001	93	97700	25.0	25.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.306	5.313	-0.007	0	135982	25.0	26.1	
\$ 6 Toluene-d8 (Surr)	98	7.113	7.114	-0.001	93	338759	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.845	9.845	0.000	90	108723	25.0	24.4	
11 Dichlorodifluoromethane	85	1.370	1.370	0.000	99	113086	25.0	21.5	
13 Chloromethane	50	1.535	1.534	0.001	99	125403	25.0	19.0	
14 Vinyl chloride	62	1.644	1.650	-0.006	98	91074	25.0	19.6	
144 Butadiene	54	1.675	1.668	0.007	98	113036	25.0	23.8	
15 Bromomethane	94	1.973	1.966	0.007	92	53142	25.0	22.8	
16 Chloroethane	64	2.076	2.070	0.006	97	52549	25.0	23.8	
17 Dichlorofluoromethane	67	2.295	2.295	0.000	98	139247	25.0	21.2	
18 Trichlorofluoromethane	101	2.313	2.313	0.000	91	160952	25.0	26.6	
19 Ethyl ether	59	2.593	2.593	0.000	96	111910	25.0	24.1	
20 Acrolein	56	2.757	2.757	0.000	96	65707	125.0	114.3	
22 1,1-Dichloroethene	96	2.812	2.818	-0.006	94	91771	25.0	23.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.824	2.830	-0.006	71	100109	25.0	23.8	
23 Acetone	43	2.916	2.915	0.001	97	259412	125.0	125.7	
24 Iodomethane	142	2.976	2.970	0.006	99	165616	25.0	24.2	
25 Carbon disulfide	76	3.019	3.019	0.000	99	280896	25.0	24.1	
27 3-Chloro-1-propene	41	3.183	3.183	0.000	86	198830	25.0	21.4	
28 Methyl acetate	43	3.226	3.226	0.000	100	562953	125.0	99.8	
30 Methylene Chloride	84	3.323	3.323	0.000	95	101358	25.0	25.0	
31 2-Methyl-2-propanol	59	3.475	3.475	0.000	95	122561	250.0	230.9	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	98	311908	25.0	23.2	
33 trans-1,2-Dichloroethene	96	3.567	3.566	0.001	95	103327	25.0	23.6	
34 Acrylonitrile	53	3.591	3.591	0.000	97	493661	250.0	204.3	
35 Hexane	57	3.786	3.785	0.001	94	164554	25.0	22.5	
36 1,1-Dichloroethane	63	3.980	3.980	0.000	97	190204	25.0	23.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	4.029	4.029	0.000	97	501633	50.0	51.6	
42 2,2-Dichloropropane	77	4.510	4.509	0.001	92	98289	25.0	27.4	
43 cis-1,2-Dichloroethene	96	4.534	4.534	0.000	84	105096	25.0	22.9	
44 2-Butanone (MEK)	43	4.558	4.558	0.000	98	331110	125.0	112.0	
47 Chlorobromomethane	128	4.765	4.771	-0.006	96	56615	25.0	24.5	
49 Tetrahydrofuran	42	4.795	4.795	0.000	92	82558	50.0	38.8	
50 Chloroform	83	4.850	4.844	0.006	95	180496	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.978	4.978	0.000	98	158720	25.0	26.1	
52 Cyclohexane	56	5.002	5.002	0.000	97	193085	25.0	22.4	
53 Carbon tetrachloride	117	5.124	5.124	0.000	97	152964	25.0	26.5	
54 1,1-Dichloropropene	75	5.130	5.130	0.000	90	134768	25.0	24.4	
56 Isobutyl alcohol	43	5.313	5.312	0.001	85	125443	625.0	458.2	
55 Benzene	78	5.331	5.330	0.001	98	380296	25.0	23.1	
57 1,2-Dichloroethane	62	5.379	5.379	0.000	97	172056	25.0	23.9	
59 n-Heptane	43	5.532	5.531	0.001	96	185917	25.0	22.7	
60 Trichloroethene	95	5.945	5.945	0.000	94	102373	25.0	23.6	
62 Methylcyclohexane	83	6.085	6.085	0.000	98	161193	25.0	23.3	
63 1,2-Dichloropropane	63	6.170	6.170	0.000	81	87687	25.0	23.0	
64 Dibromomethane	93	6.304	6.304	0.000	92	60806	25.0	24.1	
66 1,4-Dioxane	88	6.310	6.316	-0.006	38	14961	500.0	399.5	
67 Dichlorobromomethane	83	6.456	6.456	0.000	97	125280	25.0	25.7	
69 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	90	54951	25.0	23.1	
71 cis-1,3-Dichloropropene	75	6.882	6.876	0.006	89	137306	25.0	24.1	
72 4-Methyl-2-pentanone (MIBK)	58	7.016	7.016	0.000	99	216358	125.0	108.5	
73 Toluene	92	7.180	7.180	0.000	98	234857	25.0	24.8	
75 trans-1,3-Dichloropropene	75	7.442	7.441	0.001	98	128236	25.0	26.2	
77 Ethyl methacrylate	69	7.497	7.496	0.001	95	107439	25.0	23.1	
78 1,1,2-Trichloroethane	83	7.630	7.630	0.000	97	65040	25.0	24.3	
79 Tetrachloroethene	166	7.728	7.721	0.007	98	114849	25.0	24.0	
80 1,3-Dichloropropane	76	7.795	7.794	0.001	96	139850	25.0	23.3	
82 2-Hexanone	43	7.862	7.861	0.001	99	436664	125.0	117.8	
83 Chlorodibromomethane	129	8.032	8.038	-0.006	90	95255	25.0	26.3	
84 Ethylene Dibromide	107	8.141	8.141	0.000	97	87341	25.0	24.1	
85 Chlorobenzene	112	8.628	8.628	0.000	94	265882	25.0	23.3	
89 1,1,1,2-Tetrachloroethane	131	8.719	8.719	0.000	92	103693	25.0	26.6	
88 Ethylbenzene	91	8.725	8.725	0.000	98	435360	25.0	23.8	
90 m-Xylene & p-Xylene	106	8.847	8.847	0.000	0	175719	25.0	24.4	
91 o-Xylene	106	9.279	9.273	0.006	96	170765	25.0	24.0	
92 Styrene	104	9.303	9.303	0.000	95	285335	25.0	24.9	
93 Bromoform	173	9.541	9.534	0.007	96	48624	25.0	22.6	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	444728	25.0	23.9	
97 Bromobenzene	156	9.997	9.990	0.007	93	118979	25.0	23.9	
98 1,1,2,2-Tetrachloroethane	83	10.027	10.027	0.000	96	100762	25.0	21.5	
99 1,2,3-Trichloropropane	110	10.058	10.063	-0.005	89	38277	25.0	21.5	
100 N-Propylbenzene	91	10.076	10.076	0.000	98	497743	25.0	23.1	
101 trans-1,4-Dichloro-2-buten	53	10.076	10.076	0.000	69	31719	25.0	16.4	
102 2-Chlorotoluene	126	10.179	10.179	0.000	96	105655	25.0	24.3	
104 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	95	374425	25.0	24.4	
105 4-Chlorotoluene	91	10.289	10.289	0.000	97	360871	25.0	24.3	
106 tert-Butylbenzene	134	10.569	10.568	0.001	93	84706	25.0	23.9	
108 1,2,4-Trimethylbenzene	105	10.624	10.623	0.001	97	376828	25.0	24.0	
109 sec-Butylbenzene	105	10.782	10.775	0.007	94	456366	25.0	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.909	10.909	0.000	99	224387	25.0	23.2	
111 4-Isopropyltoluene	119	10.916	10.915	0.001	97	402864	25.0	24.2	
113 1,4-Dichlorobenzene	146	10.995	10.994	0.001	95	228288	25.0	23.2	
115 n-Butylbenzene	91	11.299	11.298	0.001	97	314837	25.0	22.8	
116 1,2-Dichlorobenzene	146	11.341	11.341	0.000	98	211120	25.0	23.5	
117 1,2-Dibromo-3-Chloropropan	75	12.059	12.059	0.000	81	18051	25.0	21.3	
119 1,2,4-Trichlorobenzene	180	12.747	12.746	0.001	95	99721	25.0	20.4	
120 Hexachlorobutadiene	225	12.862	12.868	-0.006	96	52636	25.0	20.5	
121 Naphthalene	128	12.960	12.959	0.001	97	253735	25.0	18.4	
122 1,2,3-Trichlorobenzene	180	13.160	13.160	0.000	97	87751	25.0	19.0	

Reagents:

8260 CORP mix_00053	Amount Added: 12.50	Units: uL	
GAS CORP mix_00115	Amount Added: 12.50	Units: uL	
N 8260 IS_00004	Amount Added: 1.00	Units: uL	Run Reagent
N_8260_Surr_00148	Amount Added: 1.00	Units: uL	Run Reagent

Operator ID: GF

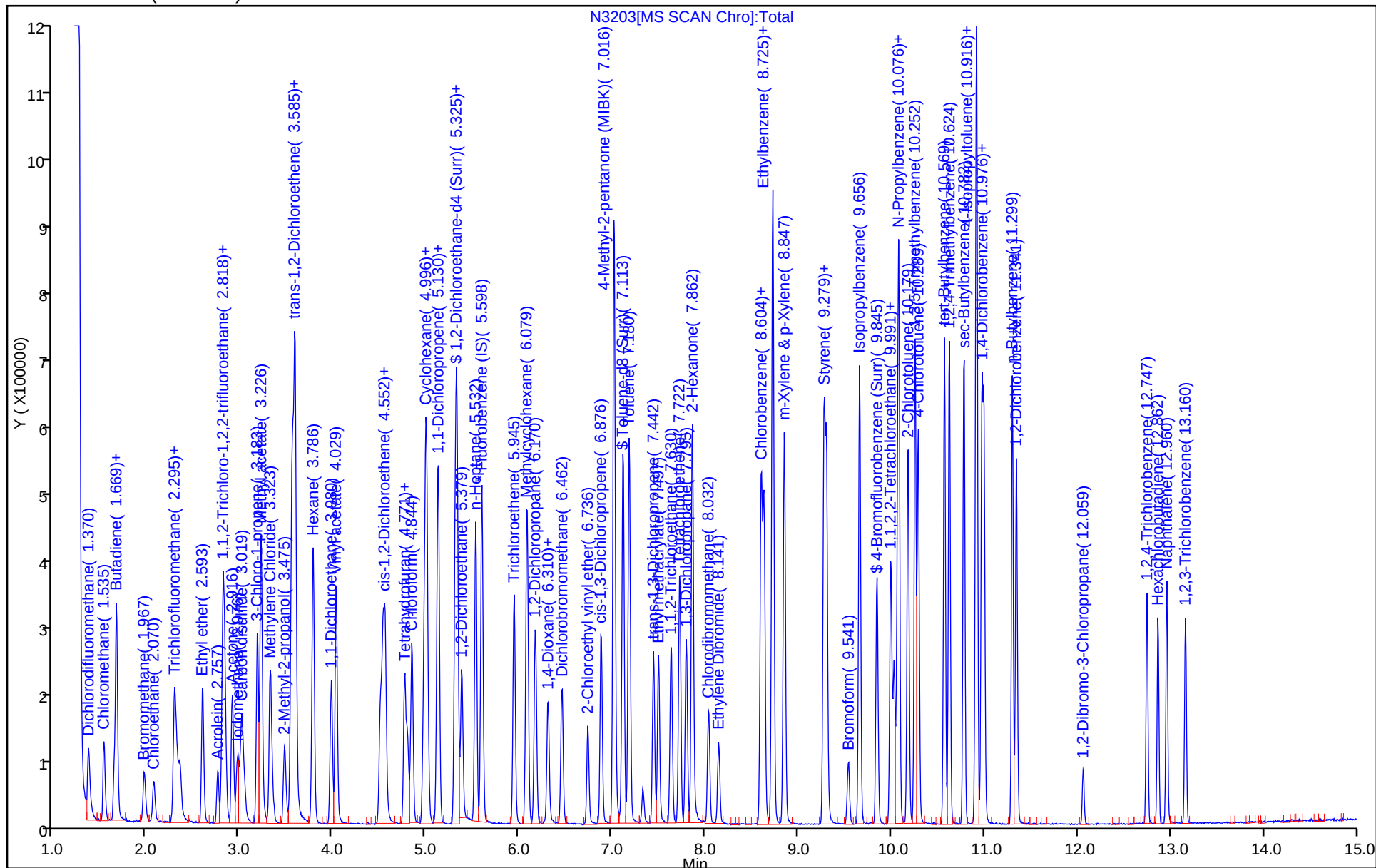
Worklist Smp#: 4

Client ID:

ALS Bottle#: 4

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-89018-1

SDG No.: _____

Instrument ID: HP5973NStart Date: 10/02/2015 14:56Analysis Batch Number: 266700End Date: 10/03/2015 02:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-266700/4		10/02/2015 14:56	1	N2291.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/6		10/02/2015 15:48	1	N2293.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/7		10/02/2015 16:15	1	N2294.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/8		10/02/2015 16:42	1	N2295.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/9		10/02/2015 17:08	1	N2296.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/10		10/02/2015 17:35	1	N2297.D	ZB-624 (60) 0.25 (mm)
ICIS 480-266700/11		10/02/2015 18:02	1	N2298.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/12		10/02/2015 18:29	1	N2299.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/13		10/02/2015 18:55	1	N2300.D	ZB-624 (60) 0.25 (mm)
MDLV 480-266700/15		10/02/2015 19:48	1		ZB-624 (60) 0.25 (mm)
MDLV 480-266700/16		10/02/2015 20:15	1		ZB-624 (60) 0.25 (mm)
IC 480-266700/18		10/02/2015 21:08	1	N2305.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/19		10/02/2015 21:35	1	N2306.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/20		10/02/2015 22:02	1	N2307.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/21		10/02/2015 22:28	1	N2308.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/22		10/02/2015 22:55	1	N2309.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/23		10/02/2015 23:22	1	N2310.D	ZB-624 (60) 0.25 (mm)
IC 480-266700/24		10/02/2015 23:49	1	N2311.D	ZB-624 (60) 0.25 (mm)
MDLV 480-266700/26		10/03/2015 00:43	1		ZB-624 (60) 0.25 (mm)
ICV 480-266700/27		10/03/2015 01:09	1		ZB-624 (60) 0.25 (mm)
ICV 480-266700/28		10/03/2015 01:35	1		ZB-624 (60) 0.25 (mm)
ICV 480-266700/29		10/03/2015 02:02	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-89018-1

SDG No.: _____

Instrument ID: HP5973NStart Date: 10/21/2015 22:24Analysis Batch Number: 270230End Date: 10/22/2015 09:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-270230/1		10/21/2015 22:24	1	N3200.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-270230/2		10/21/2015 22:55	1	N3201.D	ZB-624 (60) 0.25 (mm)
CCV 480-270230/3		10/21/2015 23:22	1	N3202.D	ZB-624 (60) 0.25 (mm)
LCS 480-270230/4		10/21/2015 23:48	1	N3203.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 00:15	1		ZB-624 (60) 0.25 (mm)
MB 480-270230/6		10/22/2015 00:42	1	N3205.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 01:18	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 01:45	1		ZB-624 (60) 0.25 (mm)
480-89018-1	WELL 1-2A	10/22/2015 02:12	1	N3208.D	ZB-624 (60) 0.25 (mm)
480-89018-2	WELL 1-3	10/22/2015 02:38	1	N3209.D	ZB-624 (60) 0.25 (mm)
480-89018-3	TRIP BLANK	10/22/2015 03:04	1	N3210.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 03:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 03:58	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 04:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 04:51	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 05:18	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 05:45	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 06:11	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 06:38	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 07:04	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 07:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 07:58	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 08:25	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 08:51	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/22/2015 09:18	4		ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-270230
Method: 8260C
Analyst: Goliszek, Gregory T

Date Open: Oct 21 2015 10:24PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00053	ADD CORP mix_00036
BFB~480-270230/1		8260C			1 uL	1 uL	HP5973N		
CCVIS~480-270230/2		8260C			5 mL	5 mL	HP5973N	12.5 uL	
CCV~480-270230/3		8260C			5 mL	5 mL	HP5973N		12.5 uL
LCS~480-270230/4		8260C			5 mL	5 mL	HP5973N	12.5 uL	
IBLK					5 mL	5 mL	HP5973N	1 uL	
MB~480-270230/6		8260C			5 mL	5 mL	HP5973N		
480-88898-A-5	R129D	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-88898-A-6	TB	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89018-A-1	WELL 1-2A	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89018-A-2	WELL 1-3	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89018-A-3	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-1	SW-1	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-2	SW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-3	SW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-4	SW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-9	DGC-1	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-10	DGC-2S	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-11	DGC-2D	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-12	DGC-4	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-13	DGC-10	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-14	DGC-11S	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-15	DGC-9	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-16	DGC-60B	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-89118-G-10~M S		8260C	T	<2 SU	5 mL	5 mL	HP5973N	12.5 uL	
480-89118-G-10~M SD		8260C	T	<2 SU	5 mL	5 mL	HP5973N	12.5 uL	

GC/MS VOA Worksheet

Batch Number: 480-270230

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Oct 21 2015 10:24PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00049	GAS CORP mix_00115	N 8260 IS_00004	N_8260_Surr_00148
BFB~480-270230/1		8260C		1 uL			
CCVIS~480-270230/2		8260C			12.5 uL	1 uL	1 uL
CCV~480-270230/3		8260C				1 uL	1 uL
LCS~480-270230/4		8260C			12.5 uL	1 uL	1 uL
IBLK					1 uL	1 uL	1 uL
MB~480-270230/6		8260C				1 uL	1 uL
480-88898-A-5	R129D	8260C	T			1 uL	1 uL
480-88898-A-6	TB	8260C	T			1 uL	1 uL
480-89018-A-1	WELL 1-2A	8260C	T			1 uL	1 uL
480-89018-A-2	WELL 1-3	8260C	T			1 uL	1 uL
480-89018-A-3	TRIP BLANK	8260C	T			1 uL	1 uL
480-89118-G-1	SW-1	8260C	T			1 uL	1 uL
480-89118-G-2	SW-2	8260C	T			1 uL	1 uL
480-89118-G-3	SW-3	8260C	T			1 uL	1 uL
480-89118-G-4	SW-4	8260C	T			1 uL	1 uL
480-89118-G-9	DGC-1	8260C	T			1 uL	1 uL
480-89118-G-10	DGC-2S	8260C	T			1 uL	1 uL
480-89118-G-11	DGC-2D	8260C	T			1 uL	1 uL
480-89118-G-12	DGC-4	8260C	T			1 uL	1 uL
480-89118-G-13	DGC-10	8260C	T			1 uL	1 uL
480-89118-G-14	DGC-11S	8260C	T			1 uL	1 uL
480-89118-G-15	DGC-9	8260C	T			1 uL	1 uL
480-89118-G-16	DGC-60B	8260C	T			1 uL	1 uL
480-89118-G-10~M S		8260C	T		12.5 uL	1 uL	1 uL
480-89118-G-10~M SD		8260C	T		12.5 uL	1 uL	1 uL

Shipping and Receiving Documents

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: <u>Bree Quagliari</u> Lab PM: Stone, Judy L Phone: (518) 250-7300 E-Mail: judy.stone@testamericainc.com	Carrier Tracking No(s): 480-72293-18034.1 Page: Page 1 of 1 Job #:
Due Date Requested: TAT Requested (days): PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested	
Sample Identification Well 1-2A Well 1-3 Trig Blank-		Sample Date 10/12/15 10/12/15 10/19/15	Sample Time 0900 0905 -
Sample Type (C=Comp, G=grab) G G -		Matrix (W=water, S=solid, O=soil, A=air) Water Water Water	Field Filtered Sample (Yes or No) X X X
Preservation Code A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Total Number of Containers 3 3 2		Special Instructions/Note: 480-89018 Chain of Custody	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Date: 10/13/15 1155 Date: 10/13/15 1500 Date:	
Company: TA ALB Company: TA ALB Company:		Date/Time: 10/13/15 11:55 Date/Time: 10/14/15 0200 Date/Time:	
Custody Seal Intact Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-89018-1

Login Number: 89018

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

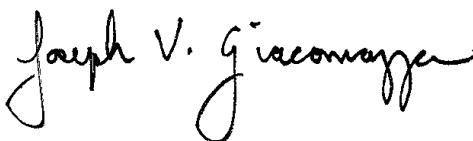
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	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

Job Number: 480-90492-1

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
11/19/2015 2:06 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
11/19/2015

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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.

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Job Narrative
480-90492-1

Receipt

The samples were received on 11/5/2015 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WELL 1-1 (480-90492-3). 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 (480-90492-22), 4009-29I (480-90492-23) and DUP-2 (480-90492-29). Elevated reporting limits (RLs) are provided.

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

Job Number: 480-90492-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-90492-1	WELL 1-2A	Water	11/04/2015 0810	11/05/2015 0230
480-90492-2	WELL 1-3	Water	11/04/2015 0815	11/05/2015 0230
480-90492-3	WELL 1-1	Water	11/04/2015 1010	11/05/2015 0230
480-90492-4	4009-9	Water	11/04/2015 1115	11/05/2015 0230
480-90492-5	4009-10	Water	11/04/2015 1120	11/05/2015 0230
480-90492-6	4009-11	Water	11/04/2015 1130	11/05/2015 0230
480-90492-7	4009-12	Water	11/04/2015 1020	11/05/2015 0230
480-90492-8	4009-13	Water	11/04/2015 1105	11/05/2015 0230
480-90492-9	4009-13A	Water	11/04/2015 1100	11/05/2015 0230
480-90492-10	4009-14	Water	11/04/2015 0905	11/05/2015 0230
480-90492-10MS	4009-14	Water	11/04/2015 0905	11/05/2015 0230
480-90492-10MSD	4009-14	Water	11/04/2015 0905	11/05/2015 0230
480-90492-11	4009-15	Water	11/04/2015 0955	11/05/2015 0230
480-90492-12	4009-16	Water	11/04/2015 0925	11/05/2015 0230
480-90492-13	4009-16A	Water	11/04/2015 0930	11/05/2015 0230
480-90492-14	4009-18	Water	11/04/2015 0840	11/05/2015 0230
480-90492-15	4009-19	Water	11/04/2015 0830	11/05/2015 0230
480-90492-16	4009-21	Water	11/04/2015 0820	11/05/2015 0230
480-90492-17	4009-22	Water	11/04/2015 0900	11/05/2015 0230
480-90492-18	4009-27S	Water	11/04/2015 1045	11/05/2015 0230
480-90492-19	4009-27I	Water	11/04/2015 1050	11/05/2015 0230
480-90492-19MS	4009-27I	Water	11/04/2015 1050	11/05/2015 0230
480-90492-19MSD	4009-27I	Water	11/04/2015 1050	11/05/2015 0230
480-90492-20	4009-27D	Water	11/04/2015 1055	11/05/2015 0230
480-90492-21	4009-28	Water	11/04/2015 0855	11/05/2015 0230
480-90492-22	4009-29S	Water	11/04/2015 1030	11/05/2015 0230
480-90492-23	4009-29I	Water	11/04/2015 1035	11/05/2015 0230
480-90492-24	4009-29D	Water	11/04/2015 1040	11/05/2015 0230
480-90492-25	4009-30	Water	11/04/2015 0940	11/05/2015 0230
480-90492-26	4009-30A	Water	11/04/2015 0945	11/05/2015 0230
480-90492-27	4009-11A	Water	11/04/2015 1125	11/05/2015 0230
480-90492-28	DUP-1	Water	11/04/2015 0000	11/05/2015 0230
480-90492-29	DUP-2	Water	11/04/2015 0000	11/05/2015 0230
480-90492-30	FIELD BLANK	Water	11/04/2015 1015	11/05/2015 0230
480-90492-31	TRIP BLANK	Water	11/04/2015 0000	11/05/2015 0230

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-90492-3	WELL 1-1					
1,1,1-Trichloroethane		350		5.0	ug/L	8260C
1,1-Dichloroethane		28		5.0	ug/L	8260C
1,1-Dichloroethene		41		5.0	ug/L	8260C
cis-1,2-Dichloroethene		82		5.0	ug/L	8260C
Trichloroethene		81		5.0	ug/L	8260C
480-90492-4	4009-9					
1,1-Dichloroethane		0.38	J	1.0	ug/L	8260C
Benzene		2.5		1.0	ug/L	8260C
cis-1,2-Dichloroethene		21		1.0	ug/L	8260C
Trichloroethene		0.52	J	1.0	ug/L	8260C
480-90492-5	4009-10					
Benzene		0.97	J	1.0	ug/L	8260C
480-90492-6	4009-11					
1,1,1-Trichloroethane		79		1.0	ug/L	8260C
1,1-Dichloroethane		20		1.0	ug/L	8260C
1,1-Dichloroethene		8.7		1.0	ug/L	8260C
Chloroethane		1.5		1.0	ug/L	8260C
cis-1,2-Dichloroethene		12		1.0	ug/L	8260C
Vinyl chloride		19		1.0	ug/L	8260C
480-90492-7	4009-12					
1,1,1-Trichloroethane		67		1.0	ug/L	8260C
1,1-Dichloroethane		29		1.0	ug/L	8260C
1,1-Dichloroethene		8.5		1.0	ug/L	8260C
Benzene		2.4		1.0	ug/L	8260C
Chloroethane		0.83	J	1.0	ug/L	8260C
cis-1,2-Dichloroethene		18		1.0	ug/L	8260C
Trichloroethene		11		1.0	ug/L	8260C
Vinyl chloride		41		1.0	ug/L	8260C
480-90492-8	4009-13					
Benzene		3.2		1.0	ug/L	8260C
480-90492-9	4009-13A					
Benzene		0.44	J	1.0	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-90492-10	4009-14					
Acetone		3.1	J	10	ug/L	8260C
Benzene		12		1.0	ug/L	8260C
Toluene		1.2		1.0	ug/L	8260C
480-90492-11	4009-15					
Acetone		4.9	J	10	ug/L	8260C
Benzene		8.0		1.0	ug/L	8260C
Toluene		0.84	J	1.0	ug/L	8260C
480-90492-13	4009-16A					
Benzene		3.0		1.0	ug/L	8260C
480-90492-16	4009-21					
Benzene		11		1.0	ug/L	8260C
480-90492-17	4009-22					
Benzene		1.2		1.0	ug/L	8260C
Toluene		0.81	J	1.0	ug/L	8260C
480-90492-18	4009-27S					
1,1,1-Trichloroethane		61		1.0	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		3.5		1.0	ug/L	8260C
1,1-Dichloroethane		2.4		1.0	ug/L	8260C
1,1-Dichloroethene		7.0		1.0	ug/L	8260C
cis-1,2-Dichloroethene		21		1.0	ug/L	8260C
Trichloroethene		25		1.0	ug/L	8260C
480-90492-19	4009-27I					
Benzene		0.61	J	1.0	ug/L	8260C
480-90492-21	4009-28					
1,1,1-Trichloroethane		2.3		1.0	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-90492-22	4009-29S					
1,1,1-Trichloroethane		760		20	ug/L	8260C
1,1-Dichloroethane		49		20	ug/L	8260C
1,1-Dichloroethene		84		20	ug/L	8260C
cis-1,2-Dichloroethene		310		20	ug/L	8260C
Vinyl chloride		82		20	ug/L	8260C
480-90492-23	4009-29I					
1,1,1-Trichloroethane		1400		40	ug/L	8260C
1,1-Dichloroethane		90		40	ug/L	8260C
1,1-Dichloroethene		200		40	ug/L	8260C
cis-1,2-Dichloroethene		410		40	ug/L	8260C
Trichloroethene		480		40	ug/L	8260C
Vinyl chloride		110		40	ug/L	8260C
480-90492-24	4009-29D					
1,1,1-Trichloroethane		14		1.0	ug/L	8260C
1,1-Dichloroethane		4.2		1.0	ug/L	8260C
1,1-Dichloroethene		2.0		1.0	ug/L	8260C
Chloroethane		1.2		1.0	ug/L	8260C
cis-1,2-Dichloroethene		8.0		1.0	ug/L	8260C
Trichloroethene		0.94	J	1.0	ug/L	8260C
Vinyl chloride		7.2		1.0	ug/L	8260C
480-90492-25	4009-30					
1,1-Dichloroethane		0.52	J	1.0	ug/L	8260C
Benzene		0.44	J	1.0	ug/L	8260C
480-90492-26	4009-30A					
Benzene		0.60	J	1.0	ug/L	8260C
480-90492-28	DUP-1					
1,1,1-Trichloroethane		68		1.0	ug/L	8260C
1,1-Dichloroethane		26		1.0	ug/L	8260C
1,1-Dichloroethene		7.8		1.0	ug/L	8260C
Benzene		2.2		1.0	ug/L	8260C
cis-1,2-Dichloroethene		17		1.0	ug/L	8260C
Trichloroethene		11		1.0	ug/L	8260C
Vinyl chloride		36		1.0	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-90492-29	DUP-2					
1,1,1-Trichloroethane		1300		20	ug/L	8260C
1,1-Dichloroethane		81		20	ug/L	8260C
1,1-Dichloroethene		160		20	ug/L	8260C
cis-1,2-Dichloroethene		390		20	ug/L	8260C
Trichloroethene		440		20	ug/L	8260C
Vinyl chloride		110		20	ug/L	8260C

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

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

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method	Analyst	Analyst ID
SW846 8260C	Gentile, Joseph W	JWG
SW846 8260C	O'Brien, Shaun W	SWO

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-90492-1

Date Sampled: 11/04/2015 0810

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4780.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1305

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1305

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-90492-1

Client Matrix: Water

Date Sampled: 11/04/2015 0810

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4780.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1305			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1305				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-90492-2

Date Sampled: 11/04/2015 0815

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4781.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1328

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1328

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-90492-2

Client Matrix: Water

Date Sampled: 11/04/2015 0815

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4781.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1328			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1328				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	93		60 - 140
Toluene-d8 (Surr)	96		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: WELL 1-1

Lab Sample ID: 480-90492-3

Date Sampled: 11/04/2015 1010

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4782.D

Dilution: 5.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1351

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1351

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	350		4.1	5.0
1,1,2,2-Tetrachloroethane	5.0	U	1.1	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	1.6	5.0
1,1,2-Trichloroethane	5.0	U	1.2	5.0
1,1-Dichloroethane	28		1.9	5.0
1,1-Dichloroethene	41		1.5	5.0
1,2,3-Trimethylbenzene	5.0	U	1.3	5.0
1,2,4-Trichlorobenzene	5.0	U	2.1	5.0
1,2,4-Trimethylbenzene	5.0	U	3.8	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.0	5.0
1,2-Dibromoethane	5.0	U	3.7	5.0
1,2-Dichlorobenzene	5.0	U	4.0	5.0
1,2-Dichloroethane	5.0	U	1.1	5.0
1,2-Dichloropropane	5.0	U	3.6	5.0
1,3,5-Trimethylbenzene	5.0	U	3.9	5.0
1,3-Dichlorobenzene	5.0	U	3.9	5.0
1,4-Dichlorobenzene	5.0	U	4.2	5.0
2-Butanone (MEK)	50	U	6.6	50
2-Hexanone	25	U	6.2	25
4-Methyl-2-pentanone (MIBK)	25	U	11	25
Acetone	50	U	15	50
Benzene	5.0	U	2.1	5.0
Bromodichloromethane	5.0	U	2.0	5.0
Bromoform	5.0	U	1.3	5.0
Bromomethane	5.0	U	3.5	5.0
Carbon disulfide	5.0	U	0.95	5.0
Carbon tetrachloride	5.0	U	1.4	5.0
Chlorobenzene	5.0	U	3.8	5.0
Chloroethane	5.0	U	1.6	5.0
Chloroform	5.0	U	1.7	5.0
Chloromethane	5.0	U	1.8	5.0
cis-1,2-Dichloroethene	82		4.1	5.0
cis-1,3-Dichloropropene	5.0	U	1.8	5.0
Cyclohexane	5.0	U	0.90	5.0
Dibromochloromethane	5.0	U	1.6	5.0
Dichlorodifluoromethane	5.0	U	3.4	5.0
Ethylbenzene	5.0	U	3.7	5.0
Isopropylbenzene	5.0	U	4.0	5.0
Methyl acetate	13	U	6.5	13
Methyl tert-butyl ether	5.0	U	0.80	5.0
Methylcyclohexane	5.0	U	0.80	5.0
Methylene Chloride	5.0	U	2.2	5.0
Styrene	5.0	U	3.7	5.0
Tetrachloroethene	5.0	U	1.8	5.0
Toluene	5.0	U	2.6	5.0
trans-1,2-Dichloroethene	5.0	U	4.5	5.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: WELL 1-1

Lab Sample ID: 480-90492-3

Client Matrix: Water

Date Sampled: 11/04/2015 1010

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4782.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1351			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1351				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	5.0	U	1.9	5.0
Trichloroethene	81		2.3	5.0
Trichlorofluoromethane	5.0	U	4.4	5.0
Vinyl chloride	5.0	U	4.5	5.0
Xylenes, Total	10	U	3.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-9

Lab Sample ID: 480-90492-4

Date Sampled: 11/04/2015 1115

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4783.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1414

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1414

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-9

Lab Sample ID: 480-90492-4

Client Matrix: Water

Date Sampled: 11/04/2015 1115

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4783.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1414			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1414				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	0.52	J	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-10

Lab Sample ID: 480-90492-5

Date Sampled: 11/04/2015 1120

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4784.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1437

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1437

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	0.97	J	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-10

Lab Sample ID: 480-90492-5

Client Matrix: Water

Date Sampled: 11/04/2015 1120

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4784.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1437			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1437				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-11

Lab Sample ID: 480-90492-6

Date Sampled: 11/04/2015 1130

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4785.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1500

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1500

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	79		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	20		0.38	1.0
1,1-Dichloroethene	8.7		0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.5		0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	12		0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-11

Lab Sample ID: 480-90492-6

Client Matrix: Water

Date Sampled: 11/04/2015 1130

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4785.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1500			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1500				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	19		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-12

Lab Sample ID: 480-90492-7

Date Sampled: 11/04/2015 1020

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4786.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1522

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1522

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	67		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	29		0.38	1.0
1,1-Dichloroethene	8.5		0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	2.4		0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	0.83	J	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	18		0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-12

Lab Sample ID: 480-90492-7

Client Matrix: Water

Date Sampled: 11/04/2015 1020

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4786.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1522			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1522				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	11		0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	41		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-13

Lab Sample ID: 480-90492-8

Date Sampled: 11/04/2015 1105

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4787.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1545

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1545

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	3.2		0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-13

Lab Sample ID: 480-90492-8

Client Matrix: Water

Date Sampled: 11/04/2015 1105

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4787.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1545			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1545				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-90492-9

Date Sampled: 11/04/2015 1100

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4788.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1608

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1608

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-90492-9

Client Matrix: Water

Date Sampled: 11/04/2015 1100

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4788.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1608			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1608				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140
Toluene-d8 (Surr)	96		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-14

Lab Sample ID: 480-90492-10

Date Sampled: 11/04/2015 0905

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4789.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1631

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1631

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	3.1	J	3.0	10
Benzene	12		0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.2		0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-14

Lab Sample ID: 480-90492-10

Client Matrix: Water

Date Sampled: 11/04/2015 0905

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4789.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1631			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1631				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	98		60 - 140
Toluene-d8 (Surr)	102		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-15

Lab Sample ID: 480-90492-11

Date Sampled: 11/04/2015 0955

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4790.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1654

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1654

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	4.9	J	3.0	10
Benzene	8.0		0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	0.84	J	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-15

Lab Sample ID: 480-90492-11

Client Matrix: Water

Date Sampled: 11/04/2015 0955

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4790.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1654			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1654				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-16

Lab Sample ID: 480-90492-12

Date Sampled: 11/04/2015 0925

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4791.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1717

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1717

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-16

Lab Sample ID: 480-90492-12

Client Matrix: Water

Date Sampled: 11/04/2015 0925

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4791.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1717			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1717				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	95		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-90492-13

Date Sampled: 11/04/2015 0930

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4792.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1740

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1740

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-90492-13

Client Matrix: Water

Date Sampled: 11/04/2015 0930

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4792.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1740			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1740				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-18

Lab Sample ID: 480-90492-14

Date Sampled: 11/04/2015 0840

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4793.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1803

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1803

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-18

Lab Sample ID: 480-90492-14

Client Matrix: Water

Date Sampled: 11/04/2015 0840

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1803			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1803				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	102		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-19

Lab Sample ID: 480-90492-15

Date Sampled: 11/04/2015 0830

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4794.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1825

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1825

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-19

Lab Sample ID: 480-90492-15

Client Matrix: Water

Date Sampled: 11/04/2015 0830

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1825			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1825				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	99		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-21

Lab Sample ID: 480-90492-16

Date Sampled: 11/04/2015 0820

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4795.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1848

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1848

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-21

Lab Sample ID: 480-90492-16

Client Matrix: Water

Date Sampled: 11/04/2015 0820

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4795.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1848			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1848				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	99		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-22

Lab Sample ID: 480-90492-17

Date Sampled: 11/04/2015 0900

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4796.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1910

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1910

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-22

Lab Sample ID: 480-90492-17

Client Matrix: Water

Date Sampled: 11/04/2015 0900

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4796.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1910			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	96		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-90492-18

Date Sampled: 11/04/2015 1045

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275144

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4797.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/16/2015 1933

Final Weight/Volume: 5 mL

Prep Date: 11/16/2015 1933

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	61		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.5		0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	2.4		0.38	1.0
1,1-Dichloroethene	7.0		0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	21		0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-90492-18

Client Matrix: Water

Date Sampled: 11/04/2015 1045

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1933			Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1933				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	25		0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	101		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-271

Lab Sample ID: 480-90492-19

Date Sampled: 11/04/2015 1050

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4810.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0105

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0105

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	0.61	J	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-271

Lab Sample ID: 480-90492-19

Client Matrix: Water

Date Sampled: 11/04/2015 1050

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4810.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0105			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140
Toluene-d8 (Surr)	101		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-90492-20

Date Sampled: 11/04/2015 1055

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4811.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0128

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0128

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-90492-20

Client Matrix: Water

Date Sampled: 11/04/2015 1055

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4811.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0128			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0128				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-28

Lab Sample ID: 480-90492-21

Date Sampled: 11/04/2015 0855

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4812.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0150

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0150

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.3		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-28

Lab Sample ID: 480-90492-21

Client Matrix: Water

Date Sampled: 11/04/2015 0855

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4812.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0150			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0150				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-90492-22

Date Sampled: 11/04/2015 1030

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4813.D

Dilution: 20

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0213

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0213

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	760		16	20
1,1,2,2-Tetrachloroethane	20	U	4.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	6.2	20
1,1,2-Trichloroethane	20	U	4.6	20
1,1-Dichloroethane	49		7.6	20
1,1-Dichloroethene	84		5.8	20
1,2,3-Trimethylbenzene	20	U	5.2	20
1,2,4-Trichlorobenzene	20	U	8.2	20
1,2,4-Trimethylbenzene	20	U	15	20
1,2-Dibromo-3-Chloropropane	20	U	7.8	20
1,2-Dibromoethane	20	U	15	20
1,2-Dichlorobenzene	20	U	16	20
1,2-Dichloroethane	20	U	4.2	20
1,2-Dichloropropane	20	U	14	20
1,3,5-Trimethylbenzene	20	U	15	20
1,3-Dichlorobenzene	20	U	16	20
1,4-Dichlorobenzene	20	U	17	20
2-Butanone (MEK)	200	U	26	200
2-Hexanone	100	U	25	100
4-Methyl-2-pentanone (MIBK)	100	U	42	100
Acetone	200	U	60	200
Benzene	20	U	8.2	20
Bromodichloromethane	20	U	7.8	20
Bromoform	20	U	5.2	20
Bromomethane	20	U	14	20
Carbon disulfide	20	U	3.8	20
Carbon tetrachloride	20	U	5.4	20
Chlorobenzene	20	U	15	20
Chloroethane	20	U	6.4	20
Chloroform	20	U	6.8	20
Chloromethane	20	U	7.0	20
cis-1,2-Dichloroethene	310		16	20
cis-1,3-Dichloropropene	20	U	7.2	20
Cyclohexane	20	U	3.6	20
Dibromochloromethane	20	U	6.4	20
Dichlorodifluoromethane	20	U	14	20
Ethylbenzene	20	U	15	20
Isopropylbenzene	20	U	16	20
Methyl acetate	50	U	26	50
Methyl tert-butyl ether	20	U	3.2	20
Methylcyclohexane	20	U	3.2	20
Methylene Chloride	20	U	8.8	20
Styrene	20	U	15	20
Tetrachloroethene	20	U	7.2	20
Toluene	20	U	10	20
trans-1,2-Dichloroethene	20	U	18	20

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-90492-22

Client Matrix: Water

Date Sampled: 11/04/2015 1030

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4813.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0213			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0213				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	20	U	7.4	20
Trichloroethene	20	U	9.2	20
Trichlorofluoromethane	20	U	18	20
Vinyl chloride	82		18	20
Xylenes, Total	40	U	13	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	101		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-291

Lab Sample ID: 480-90492-23

Date Sampled: 11/04/2015 1035

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4814.D

Dilution: 40

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0236

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0236

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1400		33	40
1,1,2,2-Tetrachloroethane	40	U	8.4	40
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	12	40
1,1,2-Trichloroethane	40	U	9.2	40
1,1-Dichloroethane	90		15	40
1,1-Dichloroethene	200		12	40
1,2,3-Trimethylbenzene	40	U	10	40
1,2,4-Trichlorobenzene	40	U	16	40
1,2,4-Trimethylbenzene	40	U	30	40
1,2-Dibromo-3-Chloropropane	40	U	16	40
1,2-Dibromoethane	40	U	29	40
1,2-Dichlorobenzene	40	U	32	40
1,2-Dichloroethane	40	U	8.4	40
1,2-Dichloropropane	40	U	29	40
1,3,5-Trimethylbenzene	40	U	31	40
1,3-Dichlorobenzene	40	U	31	40
1,4-Dichlorobenzene	40	U	34	40
2-Butanone (MEK)	400	U	53	400
2-Hexanone	200	U	50	200
4-Methyl-2-pentanone (MIBK)	200	U	84	200
Acetone	400	U	120	400
Benzene	40	U	16	40
Bromodichloromethane	40	U	16	40
Bromoform	40	U	10	40
Bromomethane	40	U	28	40
Carbon disulfide	40	U	7.6	40
Carbon tetrachloride	40	U	11	40
Chlorobenzene	40	U	30	40
Chloroethane	40	U	13	40
Chloroform	40	U	14	40
Chloromethane	40	U	14	40
cis-1,2-Dichloroethene	410		32	40
cis-1,3-Dichloropropene	40	U	14	40
Cyclohexane	40	U	7.2	40
Dibromochloromethane	40	U	13	40
Dichlorodifluoromethane	40	U	27	40
Ethylbenzene	40	U	30	40
Isopropylbenzene	40	U	32	40
Methyl acetate	100	U	52	100
Methyl tert-butyl ether	40	U	6.4	40
Methylcyclohexane	40	U	6.4	40
Methylene Chloride	40	U	18	40
Styrene	40	U	29	40
Tetrachloroethene	40	U	14	40
Toluene	40	U	20	40
trans-1,2-Dichloroethene	40	U	36	40

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-291

Lab Sample ID: 480-90492-23

Client Matrix: Water

Date Sampled: 11/04/2015 1035

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4814.D
Dilution:	40			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0236			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0236				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	40	U	15	40
Trichloroethene	480		18	40
Trichlorofluoromethane	40	U	35	40
Vinyl chloride	110		36	40
Xylenes, Total	80	U	26	80

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	102		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-90492-24

Date Sampled: 11/04/2015 1040

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4815.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0259

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0259

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	14		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	4.2		0.38	1.0
1,1-Dichloroethene	2.0		0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.2		0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	8.0		0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-90492-24

Client Matrix: Water

Date Sampled: 11/04/2015 1040

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4815.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0259			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0259				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	0.94	J	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	7.2		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-30

Lab Sample ID: 480-90492-25

Date Sampled: 11/04/2015 0940

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4816.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0322

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0322

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	0.52	J	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	0.44	J	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-30

Lab Sample ID: 480-90492-25

Client Matrix: Water

Date Sampled: 11/04/2015 0940

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4816.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0322			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0322				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	97		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-90492-26

Date Sampled: 11/04/2015 0945

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4817.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0345

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0345

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-90492-26

Client Matrix: Water

Date Sampled: 11/04/2015 0945

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4817.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0345			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0345				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	102		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-11A

Lab Sample ID: 480-90492-27

Date Sampled: 11/04/2015 1125

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4818.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0408

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0408

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: 4009-11A

Lab Sample ID: 480-90492-27

Client Matrix: Water

Date Sampled: 11/04/2015 1125

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4818.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0408			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0408				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	97		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: DUP-1

Lab Sample ID: 480-90492-28

Date Sampled: 11/04/2015 0000

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275377

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4836.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 1210

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 1210

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	68		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	26		0.38	1.0
1,1-Dichloroethene	7.8		0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	2.2		0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	17		0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: DUP-1

Lab Sample ID: 480-90492-28

Client Matrix: Water

Date Sampled: 11/04/2015 0000

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275377	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4836.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 1210			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 1210				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	11		0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	36		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	96		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: DUP-2

Lab Sample ID: 480-90492-29

Date Sampled: 11/04/2015 0000

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4820.D

Dilution: 20

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0453

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0453

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1300		16	20
1,1,2,2-Tetrachloroethane	20	U	4.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	6.2	20
1,1,2-Trichloroethane	20	U	4.6	20
1,1-Dichloroethane	81		7.6	20
1,1-Dichloroethene	160		5.8	20
1,2,3-Trimethylbenzene	20	U	5.2	20
1,2,4-Trichlorobenzene	20	U	8.2	20
1,2,4-Trimethylbenzene	20	U	15	20
1,2-Dibromo-3-Chloropropane	20	U	7.8	20
1,2-Dibromoethane	20	U	15	20
1,2-Dichlorobenzene	20	U	16	20
1,2-Dichloroethane	20	U	4.2	20
1,2-Dichloropropane	20	U	14	20
1,3,5-Trimethylbenzene	20	U	15	20
1,3-Dichlorobenzene	20	U	16	20
1,4-Dichlorobenzene	20	U	17	20
2-Butanone (MEK)	200	U	26	200
2-Hexanone	100	U	25	100
4-Methyl-2-pentanone (MIBK)	100	U	42	100
Acetone	200	U	60	200
Benzene	20	U	8.2	20
Bromodichloromethane	20	U	7.8	20
Bromoform	20	U	5.2	20
Bromomethane	20	U	14	20
Carbon disulfide	20	U	3.8	20
Carbon tetrachloride	20	U	5.4	20
Chlorobenzene	20	U	15	20
Chloroethane	20	U	6.4	20
Chloroform	20	U	6.8	20
Chloromethane	20	U	7.0	20
cis-1,2-Dichloroethene	390		16	20
cis-1,3-Dichloropropene	20	U	7.2	20
Cyclohexane	20	U	3.6	20
Dibromochloromethane	20	U	6.4	20
Dichlorodifluoromethane	20	U	14	20
Ethylbenzene	20	U	15	20
Isopropylbenzene	20	U	16	20
Methyl acetate	50	U	26	50
Methyl tert-butyl ether	20	U	3.2	20
Methylcyclohexane	20	U	3.2	20
Methylene Chloride	20	U	8.8	20
Styrene	20	U	15	20
Tetrachloroethene	20	U	7.2	20
Toluene	20	U	10	20
trans-1,2-Dichloroethene	20	U	18	20

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: DUP-2

Lab Sample ID: 480-90492-29

Date Sampled: 11/04/2015 0000

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4820.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0453			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0453				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	20	U	7.4	20
Trichloroethene	440		9.2	20
Trichlorofluoromethane	20	U	18	20
Vinyl chloride	110		18	20
Xylenes, Total	40	U	13	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-90492-30

Date Sampled: 11/04/2015 1015

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4821.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0516

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0516

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-90492-30

Date Sampled: 11/04/2015 1015

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4821.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0516			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-90492-31

Date Sampled: 11/04/2015 0000

Client Matrix: Water

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 480-275311

Instrument ID: HP5973S

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: S4822.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 11/17/2015 0539

Final Weight/Volume: 5 mL

Prep Date: 11/17/2015 0539

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

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-90492-31

Client Matrix: Water

Date Sampled: 11/04/2015 0000

Date Received: 11/05/2015 0230

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S4822.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 0539			Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 0539				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	99		71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-90492-1	WELL 1-2A	94	100	97	97
480-90492-2	WELL 1-3	93	101	96	95
480-90492-3	WELL 1-1	102	102	94	92
480-90492-4	4009-9	99	107	100	96
480-90492-5	4009-10	96	104	98	96
480-90492-6	4009-11	103	102	98	94
480-90492-7	4009-12	106	105	97	97
480-90492-8	4009-13	96	101	97	95
480-90492-9	4009-13A	99	102	96	93
480-90492-10	4009-14	98	104	102	99
480-90492-11	4009-15	99	106	97	94
480-90492-12	4009-16	95	101	97	95
480-90492-13	4009-16A	102	109	100	97
480-90492-14	4009-18	101	108	102	98
480-90492-15	4009-19	104	112	99	98
480-90492-16	4009-21	100	106	99	94
480-90492-17	4009-22	96	104	96	98
480-90492-18	4009-27S	110	109	101	98
480-90492-19	4009-27I	99	107	101	98
480-90492-20	4009-27D	94	99	97	94
480-90492-21	4009-28	94	101	97	95
480-90492-22	4009-29S	107	105	101	97
480-90492-23	4009-29I	104	105	102	97
480-90492-24	4009-29D	100	105	97	98
480-90492-25	4009-30	97	100	100	99
480-90492-26	4009-30A	100	106	102	99
480-90492-27	4009-11A	97	102	95	93
480-90492-28	DUP-1	101	99	96	96
480-90492-29	DUP-2	106	105	100	98

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-90492-30	FIELD BLANK	104	109	100	99
480-90492-31	TRIP BLANK	100	106	99	96
MB 480-275144/8		93	100	99	97
MB 480-275311/6		93	101	96	96
MB 480-275377/6		97	102	98	95
MB 480-275520/6		101	103	102	99
LCS 480-275144/29		102	105	100	105
LCS 480-275311/4		97	94	97	99
LCS 480-275377/4		98	98	99	101
LCS 480-275520/4		101	101	100	102
480-90492-10 MS	4009-14 MS	99	99	98	101
480-90492-19 MS	4009-27I MS	107	103	103	108
480-90492-10 MSD	4009-14 MSD	99	97	98	100
480-90492-19 MSD	4009-27I MSD	111	108	107	111

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275144

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-275144/8
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 1115
Prep Date: 11/16/2015 1115
Leach Date: N/A

Analysis Batch: 480-275144
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4777.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

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

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275144

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-275144/8	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4777.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1115	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1115				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
4-Bromofluorobenzene (Surr)	97	73 - 120
Dibromofluoromethane (Surr)	93	60 - 140
Toluene-d8 (Surr)	99	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275144

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275144/29	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4778.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1155	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1155				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	24.1	96	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	24.7	99	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.6	90	52 - 148	
1,1,2-Trichloroethane	25.0	24.9	100	76 - 122	
1,1-Dichloroethane	25.0	24.0	96	71 - 129	
1,1-Dichloroethene	25.0	24.5	98	58 - 121	
1,2,3-Trimethylbenzene	25.0	26.7	107	67 - 138	
1,2,4-Trichlorobenzene	25.0	26.0	104	70 - 122	
1,2,4-Trimethylbenzene	25.0	25.6	102	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	25.9	103	56 - 134	
1,2-Dibromoethane	25.0	25.7	103	77 - 120	
1,2-Dichlorobenzene	25.0	24.9	100	80 - 124	
1,2-Dichloroethane	25.0	24.9	99	75 - 127	
1,2-Dichloropropane	25.0	25.8	103	76 - 120	
1,3,5-Trimethylbenzene	25.0	24.9	100	77 - 121	
1,3-Dichlorobenzene	25.0	24.7	99	77 - 120	
1,4-Dichlorobenzene	25.0	23.9	95	75 - 120	
2-Butanone (MEK)	125	123	98	57 - 140	
2-Hexanone	125	135	108	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	132	106	71 - 125	
Acetone	125	128	102	56 - 142	
Benzene	25.0	24.3	97	71 - 124	
Bromodichloromethane	25.0	25.0	100	80 - 122	
Bromoform	25.0	20.8	83	52 - 132	
Bromomethane	25.0	18.9	76	55 - 144	
Carbon disulfide	25.0	23.4	94	59 - 134	
Carbon tetrachloride	25.0	23.7	95	72 - 134	
Chlorobenzene	25.0	24.7	99	72 - 120	
Chloroethane	25.0	24.1	96	69 - 136	
Chloroform	25.0	24.4	98	73 - 127	
Chloromethane	25.0	23.9	95	68 - 124	
cis-1,2-Dichloroethene	25.0	24.0	96	74 - 124	
cis-1,3-Dichloropropene	25.0	28.0	112	74 - 124	
Cyclohexane	25.0	24.8	99	59 - 135	
Dibromochloromethane	25.0	23.4	94	75 - 125	
Dichlorodifluoromethane	25.0	24.5	98	59 - 135	
Ethylbenzene	25.0	24.8	99	77 - 123	
Isopropylbenzene	25.0	25.3	101	77 - 122	
Methyl acetate	125	137	110	74 - 133	
Methyl tert-butyl ether	25.0	24.4	98	64 - 127	
Methylcyclohexane	25.0	25.4	101	61 - 138	
Methylene Chloride	25.0	25.1	100	57 - 132	
Styrene	25.0	26.7	107	70 - 130	
Tetrachloroethene	25.0	24.6	98	74 - 122	
Toluene	25.0	24.4	97	80 - 122	
trans-1,2-Dichloroethene	25.0	25.1	100	73 - 127	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275144

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275144/29	Analysis Batch:	480-275144	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4778.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 1155	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 1155				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
trans-1,3-Dichloropropene	25.0	26.3	105	72 - 123	
Trichloroethene	25.0	25.2	101	74 - 123	
Trichlorofluoromethane	25.0	26.3	105	62 - 152	
Vinyl chloride	25.0	23.5	94	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	66 - 137
4-Bromofluorobenzene (Surr)	105	73 - 120
Dibromofluoromethane (Surr)	102	60 - 140
Toluene-d8 (Surr)	100	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275144

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 1956
Prep Date: 11/16/2015 1956
Leach Date: N/A

Analysis Batch: 480-275144
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4798.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 2018
Prep Date: 11/16/2015 2018
Leach Date: N/A

Analysis Batch: 480-275144
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4799.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1-Trichloroethane	124	126	73 - 126	2	15		
1,1,2,2-Tetrachloroethane	114	116	70 - 126	1	15		
1,1,2-Trichloro-1,2,2-trifluoroethane	113	118	52 - 148	4	20		
1,1,2-Trichloroethane	112	112	76 - 122	1	15		
1,1-Dichloroethane	113	116	71 - 129	3	20		
1,1-Dichloroethene	113	115	58 - 121	2	16		
1,2,3-Trimethylbenzene	133	133	67 - 138	0	20		
1,2,4-Trichlorobenzene	119	123	70 - 122	3	20		*
1,2,4-Trimethylbenzene	127	127	76 - 121	1	20	*	*
1,2-Dibromo-3-Chloropropane	114	121	56 - 134	6	15		
1,2-Dibromoethane	110	118	77 - 120	6	15		
1,2-Dichlorobenzene	119	120	80 - 124	1	20		
1,2-Dichloroethane	109	113	75 - 127	3	20		
1,2-Dichloropropane	120	123	76 - 120	2	20		*
1,3,5-Trimethylbenzene	123	126	77 - 121	2	20	*	*
1,3-Dichlorobenzene	120	118	77 - 120	1	20		
1,4-Dichlorobenzene	114	116	75 - 120	1	20		
2-Butanone (MEK)	102	102	57 - 140	0	20		
2-Hexanone	115	116	65 - 127	1	15		
4-Methyl-2-pentanone (MIBK)	115	116	71 - 125	1	35		
Acetone	98	99	56 - 142	1	15		
Benzene	109	111	71 - 124	1	13		
Bromodichloromethane	114	118	80 - 122	4	15		
Bromoform	95	101	52 - 132	6	15		
Bromomethane	156	154	55 - 144	1	15	*	*
Carbon disulfide	113	121	59 - 134	7	15		
Carbon tetrachloride	115	122	72 - 134	6	15		
Chlorobenzene	117	121	72 - 120	4	25		*
Chloroethane	140	133	69 - 136	5	15	*	
Chloroform	113	115	73 - 127	2	20		
Chloromethane	118	115	68 - 124	3	15		
cis-1,2-Dichloroethene	115	116	74 - 124	1	15		
cis-1,3-Dichloropropene	123	128	74 - 124	4	15		*

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275144

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 1956
Prep Date: 11/16/2015 1956
Leach Date: N/A

Analysis Batch: 480-275144
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4798.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 2018
Prep Date: 11/16/2015 2018
Leach Date: N/A

Analysis Batch: 480-275144
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4799.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyclohexane	114	120	59 - 135	5	20		
Dibromochloromethane	103	109	75 - 125	6	15		
Dichlorodifluoromethane	112	114	59 - 135	1	20		
Ethylbenzene	120	124	77 - 123	3	15		*
Isopropylbenzene	125	131	77 - 122	4	20	*	*
Methyl acetate	113	112	74 - 133	1	20		
Methyl tert-butyl ether	106	109	64 - 127	3	37		
Methylcyclohexane	114	116	61 - 138	2	20		
Methylene Chloride	112	116	57 - 132	4	15		
Styrene	126	132	70 - 130	4	20		*
Tetrachloroethene	120	126	74 - 122	5	20		*
Toluene	114	116	80 - 122	2	15		
trans-1,2-Dichloroethene	119	123	73 - 127	3	20		
trans-1,3-Dichloropropene	112	121	72 - 123	7	15		
Trichloroethene	119	123	74 - 123	4	16		
Trichlorofluoromethane	138	133	62 - 152	3	20		
Vinyl chloride	126	128	65 - 133	1	15		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	99		97	66 - 137			
4-Bromofluorobenzene (Surr)	101		100	73 - 120			
Dibromofluoromethane (Surr)	99		99	60 - 140			
Toluene-d8 (Surr)	98		98	71 - 126			

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275144

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 1956
Prep Date: 11/16/2015 1956
Leach Date: N/A

Units: ug/L

MSD Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 2018
Prep Date: 11/16/2015 2018
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1-Trichloroethane	1.0 U	25.0	25.0	31.0	31.5
1,1,2,2-Tetrachloroethane	1.0 U	25.0	25.0	28.6	29.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	25.0	25.0	28.2	29.5
1,1,2-Trichloroethane	1.0 U	25.0	25.0	27.9	28.1
1,1-Dichloroethane	1.0 U	25.0	25.0	28.1	29.1
1,1-Dichloroethene	1.0 U	25.0	25.0	28.2	28.6
1,2,3-Trimethylbenzene	1.0 U	25.0	25.0	33.4	33.3
1,2,4-Trichlorobenzene	1.0 U	25.0	25.0	29.8	30.7 *
1,2,4-Trimethylbenzene	1.0 U	25.0	25.0	31.6 *	31.8 *
1,2-Dibromo-3-Chloropropane	1.0 U	25.0	25.0	28.5	30.3
1,2-Dibromoethane	1.0 U	25.0	25.0	27.6	29.4
1,2-Dichlorobenzene	1.0 U	25.0	25.0	29.7	30.0
1,2-Dichloroethane	1.0 U	25.0	25.0	27.2	28.2
1,2-Dichloropropane	1.0 U	25.0	25.0	30.0	30.7 *
1,3,5-Trimethylbenzene	1.0 U	25.0	25.0	30.8 *	31.5 *
1,3-Dichlorobenzene	1.0 U	25.0	25.0	29.9	29.6
1,4-Dichlorobenzene	1.0 U	25.0	25.0	28.6	29.0
2-Butanone (MEK)	10 U	125	125	128	128
2-Hexanone	5.0 U	125	125	143	145
4-Methyl-2-pentanone (MIBK)	5.0 U	125	125	144	145
Acetone	3.1 J	125	125	126	127
Benzene	12	25.0	25.0	39.3	39.8
Bromodichloromethane	1.0 U	25.0	25.0	28.5	29.6
Bromoform	1.0 U	25.0	25.0	23.8	25.2
Bromomethane	1.0 U	25.0	25.0	39.0 *	38.6 *
Carbon disulfide	1.0 U	25.0	25.0	28.3	30.3
Carbon tetrachloride	1.0 U	25.0	25.0	28.7	30.6
Chlorobenzene	1.0 U	25.0	25.0	29.3	30.4 *
Chloroethane	1.0 U	25.0	25.0	35.0 *	33.2
Chloroform	1.0 U	25.0	25.0	28.2	28.9
Chloromethane	1.0 U	25.0	25.0	29.6	28.8
cis-1,2-Dichloroethene	1.0 U	25.0	25.0	28.8	29.1
cis-1,3-Dichloropropene	1.0 U	25.0	25.0	30.7	31.9 *
Cyclohexane	1.0 U	25.0	25.0	28.6	29.9
Dibromochloromethane	1.0 U	25.0	25.0	25.7	27.3
Dichlorodifluoromethane	1.0 U	25.0	25.0	28.1	28.4
Ethylbenzene	1.0 U	25.0	25.0	30.1	31.1 *
Isopropylbenzene	1.0 U	25.0	25.0	31.3 *	32.7 *
Methyl acetate	2.5 U	125	125	141	140
Methyl tert-butyl ether	1.0 U	25.0	25.0	26.4	27.1
Methylcyclohexane	1.0 U	25.0	25.0	28.5	29.1
Methylene Chloride	1.0 U	25.0	25.0	28.0	29.1
Styrene	1.0 U	25.0	25.0	31.5	33.0 *

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275144

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-10 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 1956
Prep Date: 11/16/2015 1956
Leach Date: N/A

MSD Lab Sample ID: 480-90492-10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/16/2015 2018
Prep Date: 11/16/2015 2018
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Tetrachloroethene	1.0	U	25.0	25.0	29.9	31.4 *
Toluene	1.2		25.0	25.0	29.6	30.3
trans-1,2-Dichloroethene	1.0	U	25.0	25.0	29.8	30.8
trans-1,3-Dichloropropene	1.0	U	25.0	25.0	28.1	30.2
Trichloroethene	1.0	U	25.0	25.0	29.8	30.8
Trichlorofluoromethane	1.0	U	25.0	25.0	34.5	33.4
Vinyl chloride	1.0	U	25.0	25.0	31.5	31.9

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275311

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-275311/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 0029
Prep Date: 11/17/2015 0029
Leach Date: N/A

Analysis Batch: 480-275311
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4809.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

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

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275311

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-275311/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 0029
Prep Date: 11/17/2015 0029
Leach Date: N/A

Analysis Batch: 480-275311
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4809.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	66 - 137
4-Bromofluorobenzene (Surr)	96	73 - 120
Dibromofluoromethane (Surr)	93	60 - 140
Toluene-d8 (Surr)	96	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275311

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275311/4	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4807.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 2344	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 2344				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	23.6	94	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	24.7	99	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.6	82	52 - 148	
1,1,2-Trichloroethane	25.0	24.9	99	76 - 122	
1,1-Dichloroethane	25.0	23.1	92	71 - 129	
1,1-Dichloroethene	25.0	20.4	82	58 - 121	
1,2,3-Trimethylbenzene	25.0	27.3	109	67 - 138	
1,2,4-Trichlorobenzene	25.0	24.9	100	70 - 122	
1,2,4-Trimethylbenzene	25.0	25.6	103	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	25.5	102	56 - 134	
1,2-Dibromoethane	25.0	25.3	101	77 - 120	
1,2-Dichlorobenzene	25.0	24.6	98	80 - 124	
1,2-Dichloroethane	25.0	23.7	95	75 - 127	
1,2-Dichloropropane	25.0	24.7	99	76 - 120	
1,3,5-Trimethylbenzene	25.0	24.9	100	77 - 121	
1,3-Dichlorobenzene	25.0	24.4	98	77 - 120	
1,4-Dichlorobenzene	25.0	24.1	96	75 - 120	
2-Butanone (MEK)	125	119	95	57 - 140	
2-Hexanone	125	131	105	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	128	102	71 - 125	
Acetone	125	122	98	56 - 142	
Benzene	25.0	23.0	92	71 - 124	
Bromodichloromethane	25.0	24.2	97	80 - 122	
Bromoform	25.0	22.0	88	52 - 132	
Bromomethane	25.0	26.8	107	55 - 144	
Carbon disulfide	25.0	21.4	86	59 - 134	
Carbon tetrachloride	25.0	22.2	89	72 - 134	
Chlorobenzene	25.0	24.5	98	72 - 120	
Chloroethane	25.0	25.1	101	69 - 136	
Chloroform	25.0	23.1	92	73 - 127	
Chloromethane	25.0	22.2	89	68 - 124	
cis-1,2-Dichloroethene	25.0	23.3	93	74 - 124	
cis-1,3-Dichloropropene	25.0	26.9	108	74 - 124	
Cyclohexane	25.0	22.3	89	59 - 135	
Dibromochloromethane	25.0	23.3	93	75 - 125	
Dichlorodifluoromethane	25.0	21.1	84	59 - 135	
Ethylbenzene	25.0	24.3	97	77 - 123	
Isopropylbenzene	25.0	25.3	101	77 - 122	
Methyl acetate	125	128	103	74 - 133	
Methyl tert-butyl ether	25.0	23.3	93	64 - 127	
Methylcyclohexane	25.0	22.9	92	61 - 138	
Methylene Chloride	25.0	23.4	94	57 - 132	
Styrene	25.0	26.6	106	70 - 130	
Tetrachloroethene	25.0	24.2	97	74 - 122	
Toluene	25.0	23.1	92	80 - 122	
trans-1,2-Dichloroethene	25.0	23.6	94	73 - 127	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275311

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275311/4	Analysis Batch:	480-275311	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4807.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2015 2344	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2015 2344				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
trans-1,3-Dichloropropene	25.0	26.0	104	72 - 123	
Trichloroethene	25.0	23.5	94	74 - 123	
Trichlorofluoromethane	25.0	25.3	101	62 - 152	
Vinyl chloride	25.0	22.9	92	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	66 - 137
4-Bromofluorobenzene (Surr)	99	73 - 120
Dibromofluoromethane (Surr)	97	60 - 140
Toluene-d8 (Surr)	97	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275377

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-275377/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 1147
Prep Date: 11/17/2015 1147
Leach Date: N/A

Analysis Batch: 480-275377
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4835.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

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

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275377

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-275377/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 1147
Prep Date: 11/17/2015 1147
Leach Date: N/A

Analysis Batch: 480-275377
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4835.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	66 - 137
4-Bromofluorobenzene (Surr)	95	73 - 120
Dibromofluoromethane (Surr)	97	60 - 140
Toluene-d8 (Surr)	98	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275377

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-275377/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 1101
Prep Date: 11/17/2015 1101
Leach Date: N/A

Analysis Batch: 480-275377
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4833.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	25.1	100	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	26.1	104	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.8	99	52 - 148	
1,1,2-Trichloroethane	25.0	25.9	104	76 - 122	
1,1-Dichloroethane	25.0	24.4	98	71 - 129	
1,1-Dichloroethene	25.0	25.0	100	58 - 121	
1,2,3-Trimethylbenzene	25.0	26.8	107	67 - 138	
1,2,4-Trichlorobenzene	25.0	26.9	108	70 - 122	
1,2,4-Trimethylbenzene	25.0	26.6	107	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	28.6	115	56 - 134	
1,2-Dibromoethane	25.0	26.6	107	77 - 120	
1,2-Dichlorobenzene	25.0	25.5	102	80 - 124	
1,2-Dichloroethane	25.0	24.0	96	75 - 127	
1,2-Dichloropropane	25.0	25.4	102	76 - 120	
1,3,5-Trimethylbenzene	25.0	26.3	105	77 - 121	
1,3-Dichlorobenzene	25.0	25.7	103	77 - 120	
1,4-Dichlorobenzene	25.0	24.9	100	75 - 120	
2-Butanone (MEK)	125	130	104	57 - 140	
2-Hexanone	125	144	116	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	139	111	71 - 125	
Acetone	125	133	106	56 - 142	
Benzene	25.0	24.9	100	71 - 124	
Bromodichloromethane	25.0	25.0	100	80 - 122	
Bromoform	25.0	22.2	89	52 - 132	
Bromomethane	25.0	23.1	92	55 - 144	
Carbon disulfide	25.0	25.8	103	59 - 134	
Carbon tetrachloride	25.0	24.3	97	72 - 134	
Chlorobenzene	25.0	25.7	103	72 - 120	
Chloroethane	25.0	24.5	98	69 - 136	
Chloroform	25.0	24.5	98	73 - 127	
Chloromethane	25.0	22.9	92	68 - 124	
cis-1,2-Dichloroethene	25.0	24.0	96	74 - 124	
cis-1,3-Dichloropropene	25.0	27.7	111	74 - 124	
Cyclohexane	25.0	25.3	101	59 - 135	
Dibromochloromethane	25.0	23.4	93	75 - 125	
Dichlorodifluoromethane	25.0	22.2	89	59 - 135	
Ethylbenzene	25.0	26.2	105	77 - 123	
Isopropylbenzene	25.0	27.0	108	77 - 122	
Methyl acetate	125	140	112	74 - 133	
Methyl tert-butyl ether	25.0	24.4	98	64 - 127	
Methylcyclohexane	25.0	26.6	106	61 - 138	
Methylene Chloride	25.0	24.8	99	57 - 132	
Styrene	25.0	28.1	112	70 - 130	
Tetrachloroethene	25.0	25.9	104	74 - 122	
Toluene	25.0	25.9	104	80 - 122	
trans-1,2-Dichloroethene	25.0	26.4	105	73 - 127	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275377

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275377/4	Analysis Batch:	480-275377	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4833.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 1101	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 1101				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
trans-1,3-Dichloropropene	25.0	26.9	107	72 - 123	
Trichloroethene	25.0	25.4	102	74 - 123	
Trichlorofluoromethane	25.0	26.5	106	62 - 152	
Vinyl chloride	25.0	22.8	91	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	66 - 137
4-Bromofluorobenzene (Surr)	101	73 - 120
Dibromofluoromethane (Surr)	98	60 - 140
Toluene-d8 (Surr)	99	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275520

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-275520/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 2314
Prep Date: 11/17/2015 2314
Leach Date: N/A

Analysis Batch: 480-275520
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4865.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

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

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Method Blank - Batch: 480-275520

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 480-275520/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/17/2015 2314
Prep Date: 11/17/2015 2314
Leach Date: N/A

Analysis Batch: 480-275520
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973S
Lab File ID: S4865.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	66 - 137
4-Bromofluorobenzene (Surr)	99	73 - 120
Dibromofluoromethane (Surr)	101	60 - 140
Toluene-d8 (Surr)	102	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275520

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275520/4	Analysis Batch:	480-275520	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4863.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 2228	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 2228				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	26.9	108	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	25.3	101	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.6	110	52 - 148	
1,1,2-Trichloroethane	25.0	24.9	100	76 - 122	
1,1-Dichloroethane	25.0	25.3	101	71 - 129	
1,1-Dichloroethene	25.0	24.1	97	58 - 121	
1,2,3-Trimethylbenzene	25.0	27.4	110	67 - 138	
1,2,4-Trichlorobenzene	25.0	26.9	107	70 - 122	
1,2,4-Trimethylbenzene	25.0	26.9	108	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	26.4	106	56 - 134	
1,2-Dibromoethane	25.0	25.6	102	77 - 120	
1,2-Dichlorobenzene	25.0	26.2	105	80 - 124	
1,2-Dichloroethane	25.0	25.7	103	75 - 127	
1,2-Dichloropropane	25.0	26.7	107	76 - 120	
1,3,5-Trimethylbenzene	25.0	26.5	106	77 - 121	
1,3-Dichlorobenzene	25.0	26.0	104	77 - 120	
1,4-Dichlorobenzene	25.0	25.9	103	75 - 120	
2-Butanone (MEK)	125	125	100	57 - 140	
2-Hexanone	125	131	105	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	129	103	71 - 125	
Acetone	125	129	103	56 - 142	
Benzene	25.0	25.7	103	71 - 124	
Bromodichloromethane	25.0	26.3	105	80 - 122	
Bromoform	25.0	21.2	85	52 - 132	
Bromomethane	25.0	31.5	126	55 - 144	
Carbon disulfide	25.0	26.6	106	59 - 134	
Carbon tetrachloride	25.0	26.0	104	72 - 134	
Chlorobenzene	25.0	25.7	103	72 - 120	
Chloroethane	25.0	28.5	114	69 - 136	
Chloroform	25.0	25.5	102	73 - 127	
Chloromethane	25.0	22.7	91	68 - 124	
cis-1,2-Dichloroethene	25.0	25.0	100	74 - 124	
cis-1,3-Dichloropropene	25.0	29.5	118	74 - 124	
Cyclohexane	25.0	26.8	107	59 - 135	
Dibromochloromethane	25.0	23.7	95	75 - 125	
Dichlorodifluoromethane	25.0	22.0	88	59 - 135	
Ethylbenzene	25.0	25.5	102	77 - 123	
Isopropylbenzene	25.0	27.1	108	77 - 122	
Methyl acetate	125	137	110	74 - 133	
Methyl tert-butyl ether	25.0	24.6	99	64 - 127	
Methylcyclohexane	25.0	26.8	107	61 - 138	
Methylene Chloride	25.0	25.4	101	57 - 132	
Styrene	25.0	27.2	109	70 - 130	
Tetrachloroethene	25.0	25.4	101	74 - 122	
Toluene	25.0	24.7	99	80 - 122	
trans-1,2-Dichloroethene	25.0	27.0	108	73 - 127	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Control Sample - Batch: 480-275520

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-275520/4	Analysis Batch:	480-275520	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S4863.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2015 2228	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/17/2015 2228				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
trans-1,3-Dichloropropene	25.0	26.4	106	72 - 123	
Trichloroethene	25.0	26.3	105	74 - 123	
Trichlorofluoromethane	25.0	28.1	113	62 - 152	
Vinyl chloride	25.0	24.2	97	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Dibromofluoromethane (Surr)	101	60 - 140
Toluene-d8 (Surr)	100	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275520

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0734
Prep Date: 11/18/2015 0734
Leach Date: N/A

Analysis Batch: 480-275520
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4886.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0757
Prep Date: 11/18/2015 0757
Leach Date: N/A

Analysis Batch: 480-275520
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4887.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1-Trichloroethane	125	131	73 - 126	5	15		*
1,1,2,2-Tetrachloroethane	115	120	70 - 126	5	15		
1,1,2-Trichloro-1,2,2-trifluoroethane	119	120	52 - 148	1	20		
1,1,2-Trichloroethane	112	117	76 - 122	4	15		
1,1-Dichloroethane	114	122	71 - 129	6	20		
1,1-Dichloroethene	117	120	58 - 121	3	16		
1,2,3-Trimethylbenzene	123	131	67 - 138	6	20		
1,2,4-Trichlorobenzene	116	121	70 - 122	4	20		
1,2,4-Trimethylbenzene	123	128	76 - 121	4	20	*	*
1,2-Dibromo-3-Chloropropane	113	120	56 - 134	6	15		
1,2-Dibromoethane	110	120	77 - 120	9	15		
1,2-Dichlorobenzene	116	121	80 - 124	4	20		
1,2-Dichloroethane	110	114	75 - 127	4	20		
1,2-Dichloropropane	116	126	76 - 120	8	20		*
1,3,5-Trimethylbenzene	119	127	77 - 121	7	20		*
1,3-Dichlorobenzene	116	120	77 - 120	3	20		
1,4-Dichlorobenzene	113	118	75 - 120	5	20		
2-Butanone (MEK)	103	110	57 - 140	7	20		
2-Hexanone	116	123	65 - 127	6	15		
4-Methyl-2-pentanone (MIBK)	116	122	71 - 125	5	35		
Acetone	102	107	56 - 142	5	15		
Benzene	117	121	71 - 124	3	13		
Bromodichloromethane	115	122	80 - 122	5	15		
Bromoform	92	96	52 - 132	4	15		
Bromomethane	139	132	55 - 144	5	15		
Carbon disulfide	123	131	59 - 134	6	15		
Carbon tetrachloride	115	124	72 - 134	8	15		
Chlorobenzene	116	121	72 - 120	4	25		*
Chloroethane	120	114	69 - 136	5	15		
Chloroform	113	118	73 - 127	4	20		
Chloromethane	108	100	68 - 124	7	15		
cis-1,2-Dichloroethene	117	115	74 - 124	1	15		
cis-1,3-Dichloropropene	124	128	74 - 124	3	15		*

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275520

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0734
Prep Date: 11/18/2015 0734
Leach Date: N/A

Analysis Batch: 480-275520
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4886.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0757
Prep Date: 11/18/2015 0757
Leach Date: N/A

Analysis Batch: 480-275520
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973S
Lab File ID: S4887.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyclohexane	123	123	59 - 135	0	20		
Dibromochloromethane	105	107	75 - 125	2	15		
Dichlorodifluoromethane	98	92	59 - 135	6	20		
Ethylbenzene	118	124	77 - 123	5	15		*
Isopropylbenzene	124	129	77 - 122	5	20	*	*
Methyl acetate	113	118	74 - 133	4	20		
Methyl tert-butyl ether	107	114	64 - 127	6	37		
Methylcyclohexane	123	124	61 - 138	1	20		
Methylene Chloride	114	115	57 - 132	0	15		
Styrene	125	130	70 - 130	4	20		
Tetrachloroethene	118	123	74 - 122	4	20		*
Toluene	112	117	80 - 122	5	15		
trans-1,2-Dichloroethene	124	128	73 - 127	3	20		*
trans-1,3-Dichloropropene	113	119	72 - 123	5	15		
Trichloroethene	121	128	74 - 123	6	16		*
Trichlorofluoromethane	118	121	62 - 152	3	20		
Vinyl chloride	112	108	65 - 133	3	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	108	66 - 137
4-Bromofluorobenzene (Surr)	108	111	73 - 120
Dibromofluoromethane (Surr)	107	111	60 - 140
Toluene-d8 (Surr)	103	107	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275520

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0734
Prep Date: 11/18/2015 0734
Leach Date: N/A

Units: ug/L

MSD Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0757
Prep Date: 11/18/2015 0757
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
1,1,1-Trichloroethane	1.0	U	25.0	25.0	31.3	32.9	*
1,1,2,2-Tetrachloroethane	1.0	U	25.0	25.0	28.7	30.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	25.0	29.8	30.0	
1,1,2-Trichloroethane	1.0	U	25.0	25.0	28.1	29.3	
1,1-Dichloroethane	1.0	U	25.0	25.0	28.6	30.5	
1,1-Dichloroethene	1.0	U	25.0	25.0	29.2	29.9	
1,2,3-Trimethylbenzene	1.0	U	25.0	25.0	30.8	32.8	
1,2,4-Trichlorobenzene	1.0	U	25.0	25.0	29.1	30.3	
1,2,4-Trimethylbenzene	1.0	U	25.0	25.0	30.8	32.1	*
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	25.0	28.2	30.1	
1,2-Dibromoethane	1.0	U	25.0	25.0	27.6	30.1	
1,2-Dichlorobenzene	1.0	U	25.0	25.0	28.9	30.2	
1,2-Dichloroethane	1.0	U	25.0	25.0	27.5	28.5	
1,2-Dichloropropane	1.0	U	25.0	25.0	29.0	31.4	*
1,3,5-Trimethylbenzene	1.0	U	25.0	25.0	29.8	31.8	*
1,3-Dichlorobenzene	1.0	U	25.0	25.0	28.9	29.9	
1,4-Dichlorobenzene	1.0	U	25.0	25.0	28.2	29.6	
2-Butanone (MEK)	10	U	125	125	129	138	
2-Hexanone	5.0	U	125	125	145	154	
4-Methyl-2-pentanone (MIBK)	5.0	U	125	125	145	152	
Acetone	10	U	125	125	127	134	
Benzene	0.61	J	25.0	25.0	29.8	30.7	
Bromodichloromethane	1.0	U	25.0	25.0	28.9	30.4	
Bromoform	1.0	U	25.0	25.0	23.1	24.1	
Bromomethane	1.0	U	25.0	25.0	34.7	32.9	
Carbon disulfide	1.0	U	25.0	25.0	30.8	32.7	
Carbon tetrachloride	1.0	U	25.0	25.0	28.6	30.9	
Chlorobenzene	1.0	U	25.0	25.0	29.1	30.2	*
Chloroethane	1.0	U	25.0	25.0	29.9	28.5	
Chloroform	1.0	U	25.0	25.0	28.3	29.6	
Chloromethane	1.0	U	25.0	25.0	26.9	25.1	
cis-1,2-Dichloroethene	1.0	U	25.0	25.0	29.1	28.9	
cis-1,3-Dichloropropene	1.0	U	25.0	25.0	30.9	32.0	*
Cyclohexane	1.0	U	25.0	25.0	30.6	30.7	
Dibromochloromethane	1.0	U	25.0	25.0	26.2	26.6	
Dichlorodifluoromethane	1.0	U	25.0	25.0	24.4	22.9	
Ethylbenzene	1.0	U	25.0	25.0	29.6	31.0	*
Isopropylbenzene	1.0	U	25.0	25.0	30.9	32.4	*
Methyl acetate	2.5	U	125	125	142	148	
Methyl tert-butyl ether	1.0	U	25.0	25.0	26.8	28.5	
Methylcyclohexane	1.0	U	25.0	25.0	30.6	31.0	
Methylene Chloride	1.0	U	25.0	25.0	28.6	28.7	
Styrene	1.0	U	25.0	25.0	31.2	32.6	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-275520

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-90492-19 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0734
Prep Date: 11/18/2015 0734
Leach Date: N/A

MSD Lab Sample ID: 480-90492-19
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/18/2015 0757
Prep Date: 11/18/2015 0757
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Tetrachloroethene	1.0	U	25.0	25.0	29.6	30.7	*
Toluene	1.0	U	25.0	25.0	27.9	29.3	
trans-1,2-Dichloroethene	1.0	U	25.0	25.0	30.9	31.9	*
trans-1,3-Dichloropropene	1.0	U	25.0	25.0	28.2	29.7	
Trichloroethene	1.0	U	25.0	25.0	30.3	32.1	*
Trichlorofluoromethane	1.0	U	25.0	25.0	29.5	30.4	
Vinyl chloride	1.0	U	25.0	25.0	28.0	27.1	

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	MS or MSD is outside acceptance limits.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-275144					
LCS 480-275144/29	Lab Control Sample	T	Water	8260C	
MB 480-275144/8	Method Blank	T	Water	8260C	
480-90492-1	WELL 1-2A	T	Water	8260C	
480-90492-2	WELL 1-3	T	Water	8260C	
480-90492-3	WELL 1-1	T	Water	8260C	
480-90492-4	4009-9	T	Water	8260C	
480-90492-5	4009-10	T	Water	8260C	
480-90492-6	4009-11	T	Water	8260C	
480-90492-7	4009-12	T	Water	8260C	
480-90492-8	4009-13	T	Water	8260C	
480-90492-9	4009-13A	T	Water	8260C	
480-90492-10	4009-14	T	Water	8260C	
480-90492-10MS	Matrix Spike	T	Water	8260C	
480-90492-10MSD	Matrix Spike Duplicate	T	Water	8260C	
480-90492-11	4009-15	T	Water	8260C	
480-90492-12	4009-16	T	Water	8260C	
480-90492-13	4009-16A	T	Water	8260C	
480-90492-14	4009-18	T	Water	8260C	
480-90492-15	4009-19	T	Water	8260C	
480-90492-16	4009-21	T	Water	8260C	
480-90492-17	4009-22	T	Water	8260C	
480-90492-18	4009-27S	T	Water	8260C	
Analysis Batch:480-275311					
LCS 480-275311/4	Lab Control Sample	T	Water	8260C	
MB 480-275311/6	Method Blank	T	Water	8260C	
480-90492-19	4009-27I	T	Water	8260C	
480-90492-20	4009-27D	T	Water	8260C	
480-90492-21	4009-28	T	Water	8260C	
480-90492-22	4009-29S	T	Water	8260C	
480-90492-23	4009-29I	T	Water	8260C	
480-90492-24	4009-29D	T	Water	8260C	
480-90492-25	4009-30	T	Water	8260C	
480-90492-26	4009-30A	T	Water	8260C	
480-90492-27	4009-11A	T	Water	8260C	
480-90492-29	DUP-2	T	Water	8260C	
480-90492-30	FIELD BLANK	T	Water	8260C	
480-90492-31	TRIP BLANK	T	Water	8260C	
Analysis Batch:480-275377					
LCS 480-275377/4	Lab Control Sample	T	Water	8260C	
MB 480-275377/6	Method Blank	T	Water	8260C	
480-90492-28	DUP-1	T	Water	8260C	

TestAmerica Buffalo

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-275520					
LCS 480-275520/4	Lab Control Sample	T	Water	8260C	
MB 480-275520/6	Method Blank	T	Water	8260C	
480-90492-19MS	Matrix Spike	T	Water	8260C	
480-90492-19MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: 480-90492-1

Client ID: WELL 1-2A

Sample Date/Time: 11/04/2015 08:10 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-1		480-275144		11/16/2015 13:05	1	TAL BUF	SWO
A:8260C	480-90492-A-1		480-275144		11/16/2015 13:05	1	TAL BUF	SWO

Lab ID: 480-90492-2

Client ID: WELL 1-3

Sample Date/Time: 11/04/2015 08:15 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-2		480-275144		11/16/2015 13:28	1	TAL BUF	SWO
A:8260C	480-90492-A-2		480-275144		11/16/2015 13:28	1	TAL BUF	SWO

Lab ID: 480-90492-3

Client ID: WELL 1-1

Sample Date/Time: 11/04/2015 10:10 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-3		480-275144		11/16/2015 13:51	5	TAL BUF	SWO
A:8260C	480-90492-A-3		480-275144		11/16/2015 13:51	5	TAL BUF	SWO

Lab ID: 480-90492-4

Client ID: 4009-9

Sample Date/Time: 11/04/2015 11:15 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-4		480-275144		11/16/2015 14:14	1	TAL BUF	SWO
A:8260C	480-90492-A-4		480-275144		11/16/2015 14:14	1	TAL BUF	SWO

Lab ID: 480-90492-5

Client ID: 4009-10

Sample Date/Time: 11/04/2015 11:20 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-5		480-275144		11/16/2015 14:37	1	TAL BUF	SWO
A:8260C	480-90492-A-5		480-275144		11/16/2015 14:37	1	TAL BUF	SWO

Lab ID: 480-90492-6

Client ID: 4009-11

Sample Date/Time: 11/04/2015 11:30 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-6		480-275144		11/16/2015 15:00	1	TAL BUF	SWO
A:8260C	480-90492-A-6		480-275144		11/16/2015 15:00	1	TAL BUF	SWO

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: 480-90492-7

Client ID: 4009-12

Sample Date/Time: 11/04/2015 10:20 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-7		480-275144		11/16/2015 15:22	1	TAL BUF	SWO
A:8260C	480-90492-A-7		480-275144		11/16/2015 15:22	1	TAL BUF	SWO

Lab ID: 480-90492-8

Client ID: 4009-13

Sample Date/Time: 11/04/2015 11:05 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-8		480-275144		11/16/2015 15:45	1	TAL BUF	SWO
A:8260C	480-90492-A-8		480-275144		11/16/2015 15:45	1	TAL BUF	SWO

Lab ID: 480-90492-9

Client ID: 4009-13A

Sample Date/Time: 11/04/2015 11:00 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-9		480-275144		11/16/2015 16:08	1	TAL BUF	SWO
A:8260C	480-90492-A-9		480-275144		11/16/2015 16:08	1	TAL BUF	SWO

Lab ID: 480-90492-10

Client ID: 4009-14

Sample Date/Time: 11/04/2015 09:05 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-10		480-275144		11/16/2015 16:31	1	TAL BUF	SWO
A:8260C	480-90492-A-10		480-275144		11/16/2015 16:31	1	TAL BUF	SWO

Lab ID: 480-90492-10

Client ID: 4009-14

Sample Date/Time: 11/04/2015 09:05 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-10 MS		480-275144		11/16/2015 19:56	1	TAL BUF	SWO
A:8260C	480-90492-A-10 MS		480-275144		11/16/2015 19:56	1	TAL BUF	SWO

Lab ID: 480-90492-10

Client ID: 4009-14

Sample Date/Time: 11/04/2015 09:05 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-10 MSD		480-275144		11/16/2015 20:18	1	TAL BUF	SWO
A:8260C	480-90492-A-10 MSD		480-275144		11/16/2015 20:18	1	TAL BUF	SWO

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: 480-90492-11

Client ID: 4009-15

Sample Date/Time: 11/04/2015 09:55 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-11		480-275144		11/16/2015 16:54	1	TAL BUF	SWO
A:8260C	480-90492-A-11		480-275144		11/16/2015 16:54	1	TAL BUF	SWO

Lab ID: 480-90492-12

Client ID: 4009-16

Sample Date/Time: 11/04/2015 09:25 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-12		480-275144		11/16/2015 17:17	1	TAL BUF	SWO
A:8260C	480-90492-A-12		480-275144		11/16/2015 17:17	1	TAL BUF	SWO

Lab ID: 480-90492-13

Client ID: 4009-16A

Sample Date/Time: 11/04/2015 09:30 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-13		480-275144		11/16/2015 17:40	1	TAL BUF	SWO
A:8260C	480-90492-A-13		480-275144		11/16/2015 17:40	1	TAL BUF	SWO

Lab ID: 480-90492-14

Client ID: 4009-18

Sample Date/Time: 11/04/2015 08:40 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-14		480-275144		11/16/2015 18:03	1	TAL BUF	SWO
A:8260C	480-90492-A-14		480-275144		11/16/2015 18:03	1	TAL BUF	SWO

Lab ID: 480-90492-15

Client ID: 4009-19

Sample Date/Time: 11/04/2015 08:30 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-15		480-275144		11/16/2015 18:25	1	TAL BUF	SWO
A:8260C	480-90492-A-15		480-275144		11/16/2015 18:25	1	TAL BUF	SWO

Lab ID: 480-90492-16

Client ID: 4009-21

Sample Date/Time: 11/04/2015 08:20 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-16		480-275144		11/16/2015 18:48	1	TAL BUF	SWO
A:8260C	480-90492-A-16		480-275144		11/16/2015 18:48	1	TAL BUF	SWO

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: 480-90492-17

Client ID: 4009-22

Sample Date/Time: 11/04/2015 09:00 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-17		480-275144		11/16/2015 19:10	1	TAL BUF	SWO
A:8260C	480-90492-A-17		480-275144		11/16/2015 19:10	1	TAL BUF	SWO

Lab ID: 480-90492-18

Client ID: 4009-27S

Sample Date/Time: 11/04/2015 10:45 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-18		480-275144		11/16/2015 19:33	1	TAL BUF	SWO
A:8260C	480-90492-A-18		480-275144		11/16/2015 19:33	1	TAL BUF	SWO

Lab ID: 480-90492-19

Client ID: 4009-27I

Sample Date/Time: 11/04/2015 10:50 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-19		480-275311		11/17/2015 01:05	1	TAL BUF	JWG
A:8260C	480-90492-A-19		480-275311		11/17/2015 01:05	1	TAL BUF	JWG

Lab ID: 480-90492-19

Client ID: 4009-27I

Sample Date/Time: 11/04/2015 10:50 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-B-19 MS		480-275520		11/18/2015 07:34	1	TAL BUF	JWG
A:8260C	480-90492-B-19 MS		480-275520		11/18/2015 07:34	1	TAL BUF	JWG

Lab ID: 480-90492-19

Client ID: 4009-27I

Sample Date/Time: 11/04/2015 10:50 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-B-19 MSD		480-275520		11/18/2015 07:57	1	TAL BUF	JWG
A:8260C	480-90492-B-19 MSD		480-275520		11/18/2015 07:57	1	TAL BUF	JWG

Lab ID: 480-90492-20

Client ID: 4009-27D

Sample Date/Time: 11/04/2015 10:55 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-20		480-275311		11/17/2015 01:28	1	TAL BUF	JWG
A:8260C	480-90492-A-20		480-275311		11/17/2015 01:28	1	TAL BUF	JWG

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: 480-90492-21

Client ID: 4009-28

Sample Date/Time: 11/04/2015 08:55 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-21		480-275311		11/17/2015 01:50	1	TAL BUF	JWG
A:8260C	480-90492-A-21		480-275311		11/17/2015 01:50	1	TAL BUF	JWG

Lab ID: 480-90492-22

Client ID: 4009-29S

Sample Date/Time: 11/04/2015 10:30 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-22		480-275311		11/17/2015 02:13	20	TAL BUF	JWG
A:8260C	480-90492-A-22		480-275311		11/17/2015 02:13	20	TAL BUF	JWG

Lab ID: 480-90492-23

Client ID: 4009-29I

Sample Date/Time: 11/04/2015 10:35 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-23		480-275311		11/17/2015 02:36	40	TAL BUF	JWG
A:8260C	480-90492-A-23		480-275311		11/17/2015 02:36	40	TAL BUF	JWG

Lab ID: 480-90492-24

Client ID: 4009-29D

Sample Date/Time: 11/04/2015 10:40 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-24		480-275311		11/17/2015 02:59	1	TAL BUF	JWG
A:8260C	480-90492-A-24		480-275311		11/17/2015 02:59	1	TAL BUF	JWG

Lab ID: 480-90492-25

Client ID: 4009-30

Sample Date/Time: 11/04/2015 09:40 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-25		480-275311		11/17/2015 03:22	1	TAL BUF	JWG
A:8260C	480-90492-A-25		480-275311		11/17/2015 03:22	1	TAL BUF	JWG

Lab ID: 480-90492-26

Client ID: 4009-30A

Sample Date/Time: 11/04/2015 09:45 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-26		480-275311		11/17/2015 03:45	1	TAL BUF	JWG
A:8260C	480-90492-A-26		480-275311		11/17/2015 03:45	1	TAL BUF	JWG

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: 480-90492-27

Client ID: 4009-11A

Sample Date/Time: 11/04/2015 11:25 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-27		480-275311		11/17/2015 04:08	1	TAL BUF	JWG
A:8260C	480-90492-A-27		480-275311		11/17/2015 04:08	1	TAL BUF	JWG

Lab ID: 480-90492-28

Client ID: DUP-1

Sample Date/Time: 11/04/2015 00:00 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-B-28		480-275377		11/17/2015 12:10	1	TAL BUF	SWO
A:8260C	480-90492-B-28		480-275377		11/17/2015 12:10	1	TAL BUF	SWO

Lab ID: 480-90492-29

Client ID: DUP-2

Sample Date/Time: 11/04/2015 00:00 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-29		480-275311		11/17/2015 04:53	20	TAL BUF	JWG
A:8260C	480-90492-A-29		480-275311		11/17/2015 04:53	20	TAL BUF	JWG

Lab ID: 480-90492-30

Client ID: FIELD BLANK

Sample Date/Time: 11/04/2015 10:15 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-30		480-275311		11/17/2015 05:16	1	TAL BUF	JWG
A:8260C	480-90492-A-30		480-275311		11/17/2015 05:16	1	TAL BUF	JWG

Lab ID: 480-90492-31

Client ID: TRIP BLANK

Sample Date/Time: 11/04/2015 00:00 Received Date/Time: 11/05/2015 02:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90492-A-31		480-275311		11/17/2015 05:39	1	TAL BUF	JWG
A:8260C	480-90492-A-31		480-275311		11/17/2015 05:39	1	TAL BUF	JWG

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-275144/8		480-275144		11/16/2015 11:15	1	TAL BUF	SWO
A:8260C	MB 480-275144/8		480-275144		11/16/2015 11:15	1	TAL BUF	SWO
P:5030C	MB 480-275311/6		480-275311		11/17/2015 00:29	1	TAL BUF	JWG
A:8260C	MB 480-275311/6		480-275311		11/17/2015 00:29	1	TAL BUF	JWG
P:5030C	MB 480-275377/6		480-275377		11/17/2015 11:47	1	TAL BUF	SWO
A:8260C	MB 480-275377/6		480-275377		11/17/2015 11:47	1	TAL BUF	SWO
P:5030C	MB 480-275520/6		480-275520		11/17/2015 23:14	1	TAL BUF	JWG
A:8260C	MB 480-275520/6		480-275520		11/17/2015 23:14	1	TAL BUF	JWG

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-275144/29		480-275144		11/16/2015 11:55	1	TAL BUF	SWO
A:8260C	LCS 480-275144/29		480-275144		11/16/2015 11:55	1	TAL BUF	SWO
P:5030C	LCS 480-275311/4		480-275311		11/16/2015 23:44	1	TAL BUF	JWG
A:8260C	LCS 480-275311/4		480-275311		11/16/2015 23:44	1	TAL BUF	JWG
P:5030C	LCS 480-275377/4		480-275377		11/17/2015 11:01	1	TAL BUF	SWO
A:8260C	LCS 480-275377/4		480-275377		11/17/2015 11:01	1	TAL BUF	SWO
P:5030C	LCS 480-275520/4		480-275520		11/17/2015 22:28	1	TAL BUF	JWG
A:8260C	LCS 480-275520/4		480-275520		11/17/2015 22:28	1	TAL BUF	JWG

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-90492-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WELL 1-2A	480-90492-1	94	100	97	97
WELL 1-3	480-90492-2	93	101	96	95
WELL 1-1	480-90492-3	102	102	94	92
4009-9	480-90492-4	99	107	100	96
4009-10	480-90492-5	96	104	98	96
4009-11	480-90492-6	103	102	98	94
4009-12	480-90492-7	106	105	97	97
4009-13	480-90492-8	96	101	97	95
4009-13A	480-90492-9	99	102	96	93
4009-14	480-90492-10	98	104	102	99
4009-15	480-90492-11	99	106	97	94
4009-16	480-90492-12	95	101	97	95
4009-16A	480-90492-13	102	109	100	97
4009-18	480-90492-14	101	108	102	98
4009-19	480-90492-15	104	112	99	98
4009-21	480-90492-16	100	106	99	94
4009-22	480-90492-17	96	104	96	98
4009-27S	480-90492-18	110	109	101	98
4009-27I	480-90492-19	99	107	101	98
4009-27D	480-90492-20	94	99	97	94
4009-28	480-90492-21	94	101	97	95
4009-29S	480-90492-22	107	105	101	97
4009-29I	480-90492-23	104	105	102	97
4009-29D	480-90492-24	100	105	97	98
4009-30	480-90492-25	97	100	100	99
4009-30A	480-90492-26	100	106	102	99
4009-11A	480-90492-27	97	102	95	93
DUP-1	480-90492-28	101	99	96	96
DUP-2	480-90492-29	106	105	100	98
FIELD BLANK	480-90492-30	104	109	100	99
TRIP BLANK	480-90492-31	100	106	99	96
	MB 480-275144/8	93	100	99	97
	MB 480-275311/6	93	101	96	96
	MB 480-275377/6	97	102	98	95
	MB 480-275520/6	101	103	102	99

QC LIMITS

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

60-140
66-137
71-126
73-120

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	LCS 480-275144/29	102	105	100	105
	LCS 480-275311/4	97	94	97	99
	LCS 480-275377/4	98	98	99	101
	LCS 480-275520/4	101	101	100	102
4009-14 MS	480-90492-10 MS	99	99	98	101
4009-27I MS	480-90492-19 MS	107	103	103	108
4009-14 MSD	480-90492-10 MSD	99	97	98	100
4009-27I MSD	480-90492-19 MSD	111	108	107	111

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

QC LIMITS
60-140
66-137
71-126
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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4778.D
 Lab ID: LCS 480-275144/29 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.1	96	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.7	99	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.6	90	52-148	
1,1,2-Trichloroethane	25.0	24.9	100	76-122	
1,1-Dichloroethane	25.0	24.0	96	71-129	
1,1-Dichloroethene	25.0	24.5	98	58-121	
1,2,3-Trimethylbenzene	25.0	26.7	107	67-138	
1,2,4-Trichlorobenzene	25.0	26.0	104	70-122	
1,2,4-Trimethylbenzene	25.0	25.6	102	76-121	
1,2-Dibromo-3-Chloropropane	25.0	25.9	103	56-134	
1,2-Dibromoethane	25.0	25.7	103	77-120	
1,2-Dichlorobenzene	25.0	24.9	100	80-124	
1,2-Dichloroethane	25.0	24.9	99	75-127	
1,2-Dichloropropane	25.0	25.8	103	76-120	
1,3,5-Trimethylbenzene	25.0	24.9	100	77-121	
1,3-Dichlorobenzene	25.0	24.7	99	77-120	
1,4-Dichlorobenzene	25.0	23.9	95	75-120	
2-Butanone (MEK)	125	123	98	57-140	
2-Hexanone	125	135	108	65-127	
4-Methyl-2-pentanone (MIBK)	125	132	106	71-125	
Acetone	125	128	102	56-142	
Benzene	25.0	24.3	97	71-124	
Bromodichloromethane	25.0	25.0	100	80-122	
Bromoform	25.0	20.8	83	52-132	
Bromomethane	25.0	18.9	76	55-144	
Carbon disulfide	25.0	23.4	94	59-134	
Carbon tetrachloride	25.0	23.7	95	72-134	
Chlorobenzene	25.0	24.7	99	72-120	
Chloroethane	25.0	24.1	96	69-136	
Chloroform	25.0	24.4	98	73-127	
Chloromethane	25.0	23.9	95	68-124	
cis-1,2-Dichloroethene	25.0	24.0	96	74-124	
cis-1,3-Dichloropropene	25.0	28.0	112	74-124	
Cyclohexane	25.0	24.8	99	59-135	
Dibromochloromethane	25.0	23.4	94	75-125	
Dichlorodifluoromethane	25.0	24.5	98	59-135	
Ethylbenzene	25.0	24.8	99	77-123	
Isopropylbenzene	25.0	25.3	101	77-122	
Methyl acetate	125	137	110	74-133	
Methyl tert-butyl ether	25.0	24.4	98	64-127	
Methylcyclohexane	25.0	25.4	101	61-138	

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.: 480-90492-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S4778.D
Lab ID: LCS 480-275144/29 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	25.1	100	57-132	
Styrene	25.0	26.7	107	70-130	
Tetrachloroethene	25.0	24.6	98	74-122	
Toluene	25.0	24.4	97	80-122	
trans-1,2-Dichloroethene	25.0	25.1	100	73-127	
trans-1,3-Dichloropropene	25.0	26.3	105	72-123	
Trichloroethene	25.0	25.2	101	74-123	
Trichlorofluoromethane	25.0	26.3	105	62-152	
Vinyl chloride	25.0	23.5	94	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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4807.D
 Lab ID: LCS 480-275311/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	23.6	94	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.7	99	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.6	82	52-148	
1,1,2-Trichloroethane	25.0	24.9	99	76-122	
1,1-Dichloroethane	25.0	23.1	92	71-129	
1,1-Dichloroethene	25.0	20.4	82	58-121	
1,2,3-Trimethylbenzene	25.0	27.3	109	67-138	
1,2,4-Trichlorobenzene	25.0	24.9	100	70-122	
1,2,4-Trimethylbenzene	25.0	25.6	103	76-121	
1,2-Dibromo-3-Chloropropane	25.0	25.5	102	56-134	
1,2-Dibromoethane	25.0	25.3	101	77-120	
1,2-Dichlorobenzene	25.0	24.6	98	80-124	
1,2-Dichloroethane	25.0	23.7	95	75-127	
1,2-Dichloropropane	25.0	24.7	99	76-120	
1,3,5-Trimethylbenzene	25.0	24.9	100	77-121	
1,3-Dichlorobenzene	25.0	24.4	98	77-120	
1,4-Dichlorobenzene	25.0	24.1	96	75-120	
2-Butanone (MEK)	125	119	95	57-140	
2-Hexanone	125	131	105	65-127	
4-Methyl-2-pentanone (MIBK)	125	128	102	71-125	
Acetone	125	122	98	56-142	
Benzene	25.0	23.0	92	71-124	
Bromodichloromethane	25.0	24.2	97	80-122	
Bromoform	25.0	22.0	88	52-132	
Bromomethane	25.0	26.8	107	55-144	
Carbon disulfide	25.0	21.4	86	59-134	
Carbon tetrachloride	25.0	22.2	89	72-134	
Chlorobenzene	25.0	24.5	98	72-120	
Chloroethane	25.0	25.1	101	69-136	
Chloroform	25.0	23.1	92	73-127	
Chloromethane	25.0	22.2	89	68-124	
cis-1,2-Dichloroethene	25.0	23.3	93	74-124	
cis-1,3-Dichloropropene	25.0	26.9	108	74-124	
Cyclohexane	25.0	22.3	89	59-135	
Dibromochloromethane	25.0	23.3	93	75-125	
Dichlorodifluoromethane	25.0	21.1	84	59-135	
Ethylbenzene	25.0	24.3	97	77-123	
Isopropylbenzene	25.0	25.3	101	77-122	
Methyl acetate	125	128	103	74-133	
Methyl tert-butyl ether	25.0	23.3	93	64-127	
Methylcyclohexane	25.0	22.9	92	61-138	

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.: 480-90492-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S4807.D
Lab ID: LCS 480-275311/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	23.4	94	57-132	
Styrene	25.0	26.6	106	70-130	
Tetrachloroethene	25.0	24.2	97	74-122	
Toluene	25.0	23.1	92	80-122	
trans-1,2-Dichloroethene	25.0	23.6	94	73-127	
trans-1,3-Dichloropropene	25.0	26.0	104	72-123	
Trichloroethene	25.0	23.5	94	74-123	
Trichlorofluoromethane	25.0	25.3	101	62-152	
Vinyl chloride	25.0	22.9	92	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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4833.D
 Lab ID: LCS 480-275377/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.1	100	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.1	104	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.8	99	52-148	
1,1,2-Trichloroethane	25.0	25.9	104	76-122	
1,1-Dichloroethane	25.0	24.4	98	71-129	
1,1-Dichloroethene	25.0	25.0	100	58-121	
1,2,3-Trimethylbenzene	25.0	26.8	107	67-138	
1,2,4-Trichlorobenzene	25.0	26.9	108	70-122	
1,2,4-Trimethylbenzene	25.0	26.6	107	76-121	
1,2-Dibromo-3-Chloropropane	25.0	28.6	115	56-134	
1,2-Dibromoethane	25.0	26.6	107	77-120	
1,2-Dichlorobenzene	25.0	25.5	102	80-124	
1,2-Dichloroethane	25.0	24.0	96	75-127	
1,2-Dichloropropane	25.0	25.4	102	76-120	
1,3,5-Trimethylbenzene	25.0	26.3	105	77-121	
1,3-Dichlorobenzene	25.0	25.7	103	77-120	
1,4-Dichlorobenzene	25.0	24.9	100	75-120	
2-Butanone (MEK)	125	130	104	57-140	
2-Hexanone	125	144	116	65-127	
4-Methyl-2-pentanone (MIBK)	125	139	111	71-125	
Acetone	125	133	106	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	25.0	100	80-122	
Bromoform	25.0	22.2	89	52-132	
Bromomethane	25.0	23.1	92	55-144	
Carbon disulfide	25.0	25.8	103	59-134	
Carbon tetrachloride	25.0	24.3	97	72-134	
Chlorobenzene	25.0	25.7	103	72-120	
Chloroethane	25.0	24.5	98	69-136	
Chloroform	25.0	24.5	98	73-127	
Chloromethane	25.0	22.9	92	68-124	
cis-1,2-Dichloroethene	25.0	24.0	96	74-124	
cis-1,3-Dichloropropene	25.0	27.7	111	74-124	
Cyclohexane	25.0	25.3	101	59-135	
Dibromochloromethane	25.0	23.4	93	75-125	
Dichlorodifluoromethane	25.0	22.2	89	59-135	
Ethylbenzene	25.0	26.2	105	77-123	
Isopropylbenzene	25.0	27.0	108	77-122	
Methyl acetate	125	140	112	74-133	
Methyl tert-butyl ether	25.0	24.4	98	64-127	
Methylcyclohexane	25.0	26.6	106	61-138	

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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4833.D
 Lab ID: LCS 480-275377/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	24.8	99	57-132	
Styrene	25.0	28.1	112	70-130	
Tetrachloroethene	25.0	25.9	104	74-122	
Toluene	25.0	25.9	104	80-122	
trans-1,2-Dichloroethene	25.0	26.4	105	73-127	
trans-1,3-Dichloropropene	25.0	26.9	107	72-123	
Trichloroethene	25.0	25.4	102	74-123	
Trichlorofluoromethane	25.0	26.5	106	62-152	
Vinyl chloride	25.0	22.8	91	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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4863.D
 Lab ID: LCS 480-275520/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.9	108	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.3	101	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.6	110	52-148	
1,1,2-Trichloroethane	25.0	24.9	100	76-122	
1,1-Dichloroethane	25.0	25.3	101	71-129	
1,1-Dichloroethene	25.0	24.1	97	58-121	
1,2,3-Trimethylbenzene	25.0	27.4	110	67-138	
1,2,4-Trichlorobenzene	25.0	26.9	107	70-122	
1,2,4-Trimethylbenzene	25.0	26.9	108	76-121	
1,2-Dibromo-3-Chloropropane	25.0	26.4	106	56-134	
1,2-Dibromoethane	25.0	25.6	102	77-120	
1,2-Dichlorobenzene	25.0	26.2	105	80-124	
1,2-Dichloroethane	25.0	25.7	103	75-127	
1,2-Dichloropropane	25.0	26.7	107	76-120	
1,3,5-Trimethylbenzene	25.0	26.5	106	77-121	
1,3-Dichlorobenzene	25.0	26.0	104	77-120	
1,4-Dichlorobenzene	25.0	25.9	103	75-120	
2-Butanone (MEK)	125	125	100	57-140	
2-Hexanone	125	131	105	65-127	
4-Methyl-2-pentanone (MIBK)	125	129	103	71-125	
Acetone	125	129	103	56-142	
Benzene	25.0	25.7	103	71-124	
Bromodichloromethane	25.0	26.3	105	80-122	
Bromoform	25.0	21.2	85	52-132	
Bromomethane	25.0	31.5	126	55-144	
Carbon disulfide	25.0	26.6	106	59-134	
Carbon tetrachloride	25.0	26.0	104	72-134	
Chlorobenzene	25.0	25.7	103	72-120	
Chloroethane	25.0	28.5	114	69-136	
Chloroform	25.0	25.5	102	73-127	
Chloromethane	25.0	22.7	91	68-124	
cis-1,2-Dichloroethene	25.0	25.0	100	74-124	
cis-1,3-Dichloropropene	25.0	29.5	118	74-124	
Cyclohexane	25.0	26.8	107	59-135	
Dibromochloromethane	25.0	23.7	95	75-125	
Dichlorodifluoromethane	25.0	22.0	88	59-135	
Ethylbenzene	25.0	25.5	102	77-123	
Isopropylbenzene	25.0	27.1	108	77-122	
Methyl acetate	125	137	110	74-133	
Methyl tert-butyl ether	25.0	24.6	99	64-127	
Methylcyclohexane	25.0	26.8	107	61-138	

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.: 480-90492-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S4863.D
Lab ID: LCS 480-275520/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	25.4	101	57-132	
Styrene	25.0	27.2	109	70-130	
Tetrachloroethene	25.0	25.4	101	74-122	
Toluene	25.0	24.7	99	80-122	
trans-1,2-Dichloroethene	25.0	27.0	108	73-127	
trans-1,3-Dichloropropene	25.0	26.4	106	72-123	
Trichloroethene	25.0	26.3	105	74-123	
Trichlorofluoromethane	25.0	28.1	113	62-152	
Vinyl chloride	25.0	24.2	97	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.: 480-90492-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S4798.D
Lab ID: 480-90492-10 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	31.0	124	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	28.6	114	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	28.2	113	52-148	
1,1,2-Trichloroethane	25.0	1.0 U	27.9	112	76-122	
1,1-Dichloroethane	25.0	1.0 U	28.1	113	71-129	
1,1-Dichloroethene	25.0	1.0 U	28.2	113	58-121	
1,2,3-Trimethylbenzene	25.0	1.0 U	33.4	133	67-138	
1,2,4-Trichlorobenzene	25.0	1.0 U	29.8	119	70-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	31.6	127	76-121	*
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	28.5	114	56-134	
1,2-Dibromoethane	25.0	1.0 U	27.6	110	77-120	
1,2-Dichlorobenzene	25.0	1.0 U	29.7	119	80-124	
1,2-Dichloroethane	25.0	1.0 U	27.2	109	75-127	
1,2-Dichloropropane	25.0	1.0 U	30.0	120	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	30.8	123	77-121	*
1,3-Dichlorobenzene	25.0	1.0 U	29.9	120	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	28.6	114	75-120	
2-Butanone (MEK)	125	10 U	128	102	57-140	
2-Hexanone	125	5.0 U	143	115	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	144	115	71-125	
Acetone	125	3.1 J	126	98	56-142	
Benzene	25.0	12	39.3	109	71-124	
Bromodichloromethane	25.0	1.0 U	28.5	114	80-122	
Bromoform	25.0	1.0 U	23.8	95	52-132	
Bromomethane	25.0	1.0 U	39.0	156	55-144	*
Carbon disulfide	25.0	1.0 U	28.3	113	59-134	
Carbon tetrachloride	25.0	1.0 U	28.7	115	72-134	
Chlorobenzene	25.0	1.0 U	29.3	117	72-120	
Chloroethane	25.0	1.0 U	35.0	140	69-136	*
Chloroform	25.0	1.0 U	28.2	113	73-127	
Chloromethane	25.0	1.0 U	29.6	118	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	30.7	123	74-124	
Cyclohexane	25.0	1.0 U	28.6	114	59-135	
Dibromochloromethane	25.0	1.0 U	25.7	103	75-125	
Dichlorodifluoromethane	25.0	1.0 U	28.1	112	59-135	
Ethylbenzene	25.0	1.0 U	30.1	120	77-123	
Isopropylbenzene	25.0	1.0 U	31.3	125	77-122	*
Methyl acetate	125	2.5 U	141	113	74-133	
Methyl tert-butyl ether	25.0	1.0 U	26.4	106	64-127	
Methylcyclohexane	25.0	1.0 U	28.5	114	61-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4798.D
 Lab ID: 480-90492-10 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	28.0	112	57-132	
Styrene	25.0	1.0 U	31.5	126	70-130	
Tetrachloroethene	25.0	1.0 U	29.9	120	74-122	
Toluene	25.0	1.2	29.6	114	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	29.8	119	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	28.1	112	72-123	
Trichloroethene	25.0	1.0 U	29.8	119	74-123	
Trichlorofluoromethane	25.0	1.0 U	34.5	138	62-152	
Vinyl chloride	25.0	1.0 U	31.5	126	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.: 480-90492-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S4886.D
Lab ID: 480-90492-19 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	31.3	125	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	28.7	115	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	29.8	119	52-148	
1,1,2-Trichloroethane	25.0	1.0 U	28.1	112	76-122	
1,1-Dichloroethane	25.0	1.0 U	28.6	114	71-129	
1,1-Dichloroethene	25.0	1.0 U	29.2	117	58-121	
1,2,3-Trimethylbenzene	25.0	1.0 U	30.8	123	67-138	
1,2,4-Trichlorobenzene	25.0	1.0 U	29.1	116	70-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	30.8	123	76-121	*
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	28.2	113	56-134	
1,2-Dibromoethane	25.0	1.0 U	27.6	110	77-120	
1,2-Dichlorobenzene	25.0	1.0 U	28.9	116	80-124	
1,2-Dichloroethane	25.0	1.0 U	27.5	110	75-127	
1,2-Dichloropropane	25.0	1.0 U	29.0	116	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	29.8	119	77-121	
1,3-Dichlorobenzene	25.0	1.0 U	28.9	116	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	28.2	113	75-120	
2-Butanone (MEK)	125	10 U	129	103	57-140	
2-Hexanone	125	5.0 U	145	116	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	145	116	71-125	
Acetone	125	10 U	127	102	56-142	
Benzene	25.0	0.61 J	29.8	117	71-124	
Bromodichloromethane	25.0	1.0 U	28.9	115	80-122	
Bromoform	25.0	1.0 U	23.1	92	52-132	
Bromomethane	25.0	1.0 U	34.7	139	55-144	
Carbon disulfide	25.0	1.0 U	30.8	123	59-134	
Carbon tetrachloride	25.0	1.0 U	28.6	115	72-134	
Chlorobenzene	25.0	1.0 U	29.1	116	72-120	
Chloroethane	25.0	1.0 U	29.9	120	69-136	
Chloroform	25.0	1.0 U	28.3	113	73-127	
Chloromethane	25.0	1.0 U	26.9	108	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	29.1	117	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	30.9	124	74-124	
Cyclohexane	25.0	1.0 U	30.6	123	59-135	
Dibromochloromethane	25.0	1.0 U	26.2	105	75-125	
Dichlorodifluoromethane	25.0	1.0 U	24.4	98	59-135	
Ethylbenzene	25.0	1.0 U	29.6	118	77-123	
Isopropylbenzene	25.0	1.0 U	30.9	124	77-122	*
Methyl acetate	125	2.5 U	142	113	74-133	
Methyl tert-butyl ether	25.0	1.0 U	26.8	107	64-127	
Methylcyclohexane	25.0	1.0 U	30.6	123	61-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4886.D
 Lab ID: 480-90492-19 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	28.6	114	57-132	
Styrene	25.0	1.0 U	31.2	125	70-130	
Tetrachloroethene	25.0	1.0 U	29.6	118	74-122	
Toluene	25.0	1.0 U	27.9	112	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	30.9	124	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	28.2	113	72-123	
Trichloroethene	25.0	1.0 U	30.3	121	74-123	
Trichlorofluoromethane	25.0	1.0 U	29.5	118	62-152	
Vinyl chloride	25.0	1.0 U	28.0	112	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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4799.D
 Lab ID: 480-90492-10 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	31.5	126	2	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	29.0	116	1	15	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.5	118	4	20	52-148	
1,1,2-Trichloroethane	25.0	28.1	112	1	15	76-122	
1,1-Dichloroethane	25.0	29.1	116	3	20	71-129	
1,1-Dichloroethene	25.0	28.6	115	2	16	58-121	
1,2,3-Trimethylbenzene	25.0	33.3	133	0	20	67-138	
1,2,4-Trichlorobenzene	25.0	30.7	123	3	20	70-122	*
1,2,4-Trimethylbenzene	25.0	31.8	127	1	20	76-121	*
1,2-Dibromo-3-Chloropropane	25.0	30.3	121	6	15	56-134	
1,2-Dibromoethane	25.0	29.4	118	6	15	77-120	
1,2-Dichlorobenzene	25.0	30.0	120	1	20	80-124	
1,2-Dichloroethane	25.0	28.2	113	3	20	75-127	
1,2-Dichloropropane	25.0	30.7	123	2	20	76-120	*
1,3,5-Trimethylbenzene	25.0	31.5	126	2	20	77-121	*
1,3-Dichlorobenzene	25.0	29.6	118	1	20	77-120	
1,4-Dichlorobenzene	25.0	29.0	116	1	20	75-120	
2-Butanone (MEK)	125	128	102	0	20	57-140	
2-Hexanone	125	145	116	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	145	116	1	35	71-125	
Acetone	125	127	99	1	15	56-142	
Benzene	25.0	39.8	111	1	13	71-124	
Bromodichloromethane	25.0	29.6	118	4	15	80-122	
Bromoform	25.0	25.2	101	6	15	52-132	
Bromomethane	25.0	38.6	154	1	15	55-144	*
Carbon disulfide	25.0	30.3	121	7	15	59-134	
Carbon tetrachloride	25.0	30.6	122	6	15	72-134	
Chlorobenzene	25.0	30.4	121	4	25	72-120	*
Chloroethane	25.0	33.2	133	5	15	69-136	
Chloroform	25.0	28.9	115	2	20	73-127	
Chloromethane	25.0	28.8	115	3	15	68-124	
cis-1,2-Dichloroethene	25.0	29.1	116	1	15	74-124	
cis-1,3-Dichloropropene	25.0	31.9	128	4	15	74-124	*
Cyclohexane	25.0	29.9	120	5	20	59-135	
Dibromochloromethane	25.0	27.3	109	6	15	75-125	
Dichlorodifluoromethane	25.0	28.4	114	1	20	59-135	
Ethylbenzene	25.0	31.1	124	3	15	77-123	*
Isopropylbenzene	25.0	32.7	131	4	20	77-122	*
Methyl acetate	125	140	112	1	20	74-133	
Methyl tert-butyl ether	25.0	27.1	109	3	37	64-127	
Methylcyclohexane	25.0	29.1	116	2	20	61-138	

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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4799.D
 Lab ID: 480-90492-10 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	29.1	116	4	15	57-132	
Styrene	25.0	33.0	132	4	20	70-130	*
Tetrachloroethene	25.0	31.4	126	5	20	74-122	*
Toluene	25.0	30.3	116	2	15	80-122	
trans-1,2-Dichloroethene	25.0	30.8	123	3	20	73-127	
trans-1,3-Dichloropropene	25.0	30.2	121	7	15	72-123	
Trichloroethene	25.0	30.8	123	4	16	74-123	
Trichlorofluoromethane	25.0	33.4	133	3	20	62-152	
Vinyl chloride	25.0	31.9	128	1	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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4887.D
 Lab ID: 480-90492-19 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	32.9	131	5	15	73-126	*
1,1,2,2-Tetrachloroethane	25.0	30.0	120	5	15	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.0	120	1	20	52-148	
1,1,2-Trichloroethane	25.0	29.3	117	4	15	76-122	
1,1-Dichloroethane	25.0	30.5	122	6	20	71-129	
1,1-Dichloroethene	25.0	29.9	120	3	16	58-121	
1,2,3-Trimethylbenzene	25.0	32.8	131	6	20	67-138	
1,2,4-Trichlorobenzene	25.0	30.3	121	4	20	70-122	
1,2,4-Trimethylbenzene	25.0	32.1	128	4	20	76-121	*
1,2-Dibromo-3-Chloropropane	25.0	30.1	120	6	15	56-134	
1,2-Dibromoethane	25.0	30.1	120	9	15	77-120	
1,2-Dichlorobenzene	25.0	30.2	121	4	20	80-124	
1,2-Dichloroethane	25.0	28.5	114	4	20	75-127	
1,2-Dichloropropane	25.0	31.4	126	8	20	76-120	*
1,3,5-Trimethylbenzene	25.0	31.8	127	7	20	77-121	*
1,3-Dichlorobenzene	25.0	29.9	120	3	20	77-120	
1,4-Dichlorobenzene	25.0	29.6	118	5	20	75-120	
2-Butanone (MEK)	125	138	110	7	20	57-140	
2-Hexanone	125	154	123	6	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	152	122	5	35	71-125	
Acetone	125	134	107	5	15	56-142	
Benzene	25.0	30.7	121	3	13	71-124	
Bromodichloromethane	25.0	30.4	122	5	15	80-122	
Bromoform	25.0	24.1	96	4	15	52-132	
Bromomethane	25.0	32.9	132	5	15	55-144	
Carbon disulfide	25.0	32.7	131	6	15	59-134	
Carbon tetrachloride	25.0	30.9	124	8	15	72-134	
Chlorobenzene	25.0	30.2	121	4	25	72-120	*
Chloroethane	25.0	28.5	114	5	15	69-136	
Chloroform	25.0	29.6	118	4	20	73-127	
Chloromethane	25.0	25.1	100	7	15	68-124	
cis-1,2-Dichloroethene	25.0	28.9	115	1	15	74-124	
cis-1,3-Dichloropropene	25.0	32.0	128	3	15	74-124	*
Cyclohexane	25.0	30.7	123	0	20	59-135	
Dibromochloromethane	25.0	26.6	107	2	15	75-125	
Dichlorodifluoromethane	25.0	22.9	92	6	20	59-135	
Ethylbenzene	25.0	31.0	124	5	15	77-123	*
Isopropylbenzene	25.0	32.4	129	5	20	77-122	*
Methyl acetate	125	148	118	4	20	74-133	
Methyl tert-butyl ether	25.0	28.5	114	6	37	64-127	
Methylcyclohexane	25.0	31.0	124	1	20	61-138	

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.: 480-90492-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S4887.D
 Lab ID: 480-90492-19 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	28.7	115	0	15	57-132	
Styrene	25.0	32.6	130	4	20	70-130	
Tetrachloroethene	25.0	30.7	123	4	20	74-122	*
Toluene	25.0	29.3	117	5	15	80-122	
trans-1,2-Dichloroethene	25.0	31.9	128	3	20	73-127	*
trans-1,3-Dichloropropene	25.0	29.7	119	5	15	72-123	
Trichloroethene	25.0	32.1	128	6	16	74-123	*
Trichlorofluoromethane	25.0	30.4	121	3	20	62-152	
Vinyl chloride	25.0	27.1	108	3	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.: 480-90492-1
 SDG No.: _____
 Lab File ID: S4777.D Lab Sample ID: MB 480-275144/8
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 11/16/2015 11:15
 GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-275144/29	S4778.D	11/16/2015 11:55
WELL 1-2A	480-90492-1	S4780.D	11/16/2015 13:05
WELL 1-3	480-90492-2	S4781.D	11/16/2015 13:28
WELL 1-1	480-90492-3	S4782.D	11/16/2015 13:51
4009-9	480-90492-4	S4783.D	11/16/2015 14:14
4009-10	480-90492-5	S4784.D	11/16/2015 14:37
4009-11	480-90492-6	S4785.D	11/16/2015 15:00
4009-12	480-90492-7	S4786.D	11/16/2015 15:22
4009-13	480-90492-8	S4787.D	11/16/2015 15:45
4009-13A	480-90492-9	S4788.D	11/16/2015 16:08
4009-14	480-90492-10	S4789.D	11/16/2015 16:31
4009-15	480-90492-11	S4790.D	11/16/2015 16:54
4009-16	480-90492-12	S4791.D	11/16/2015 17:17
4009-16A	480-90492-13	S4792.D	11/16/2015 17:40
4009-18	480-90492-14	S4793.D	11/16/2015 18:03
4009-19	480-90492-15	S4794.D	11/16/2015 18:25
4009-21	480-90492-16	S4795.D	11/16/2015 18:48
4009-22	480-90492-17	S4796.D	11/16/2015 19:10
4009-27S	480-90492-18	S4797.D	11/16/2015 19:33
4009-14 MS	480-90492-10 MS	S4798.D	11/16/2015 19:56
4009-14 MSD	480-90492-10 MSD	S4799.D	11/16/2015 20:18

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Lab File ID: S4809.D Lab Sample ID: MB 480-275311/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 11/17/2015 00:29
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-275311/4	S4807.D	11/16/2015 23:44
4009-27I	480-90492-19	S4810.D	11/17/2015 01:05
4009-27D	480-90492-20	S4811.D	11/17/2015 01:28
4009-28	480-90492-21	S4812.D	11/17/2015 01:50
4009-29S	480-90492-22	S4813.D	11/17/2015 02:13
4009-29I	480-90492-23	S4814.D	11/17/2015 02:36
4009-29D	480-90492-24	S4815.D	11/17/2015 02:59
4009-30	480-90492-25	S4816.D	11/17/2015 03:22
4009-30A	480-90492-26	S4817.D	11/17/2015 03:45
4009-11A	480-90492-27	S4818.D	11/17/2015 04:08
DUP-2	480-90492-29	S4820.D	11/17/2015 04:53
FIELD BLANK	480-90492-30	S4821.D	11/17/2015 05:16
TRIP BLANK	480-90492-31	S4822.D	11/17/2015 05:39

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Lab File ID: S4835.D Lab Sample ID: MB 480-275377/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 11/17/2015 11:47
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-275377/4	S4833.D	11/17/2015 11:01
DUP-1	480-90492-28	S4836.D	11/17/2015 12:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Lab File ID: S4865.D Lab Sample ID: MB 480-275520/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 11/17/2015 23:14
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-275520/4	S4863.D	11/17/2015 22:28
4009-27I MS	480-90492-19 MS	S4886.D	11/18/2015 07:34
4009-27I MSD	480-90492-19 MSD	S4887.D	11/18/2015 07:57

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Lab File ID: S4478.D BFB Injection Date: 11/09/2015
Instrument ID: HP5973S BFB Injection Time: 16:49
Analysis Batch No.: 273987

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	29.3
75	30.0 - 60.0 % of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	71.0
175	5.0 - 9.0 % of mass 174	5.2 (7.4)1
176	95.0 - 101.0 % of mass 174	67.8 (95.6)1
177	5.0 - 9.0 % of mass 176	4.8 (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 480-273987/5	S4480.D	11/09/2015	17:43
	IC 480-273987/6	S4481.D	11/09/2015	18:06
	IC 480-273987/7	S4482.D	11/09/2015	18:29
	IC 480-273987/8	S4483.D	11/09/2015	18:51
	ICIS 480-273987/9	S4484.D	11/09/2015	19:14
	IC 480-273987/10	S4485.D	11/09/2015	19:37
	IC 480-273987/11	S4486.D	11/09/2015	20:00
	IC 480-273987/15	S4490.D	11/09/2015	21:31
	IC 480-273987/16	S4491.D	11/09/2015	21:53
	IC 480-273987/17	S4492.D	11/09/2015	22:16
	IC 480-273987/18	S4493.D	11/09/2015	22:38
	IC 480-273987/19	S4494.D	11/09/2015	23:00
	IC 480-273987/20	S4495.D	11/09/2015	23:23
	IC 480-273987/21	S4496.D	11/09/2015	23:46

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Lab File ID: S4772.D BFB Injection Date: 11/16/2015
Instrument ID: HP5973S BFB Injection Time: 09:14
Analysis Batch No.: 275144

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	29.0
75	30.0 - 60.0 % of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.4 (0.5)1
174	50.0 - 120.00 % of mass 95	71.4
175	5.0 - 9.0 % of mass 174	5.5 (7.7)1
176	95.0 - 101.0 % of mass 174	69.2 (96.9)1
177	5.0 - 9.0 % of mass 176	4.8 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-275144/4	S4773.D	11/16/2015	09:43
	CCV 480-275144/5	S4774.D	11/16/2015	10:06
	MB 480-275144/8	S4777.D	11/16/2015	11:15
	LCS 480-275144/29	S4778.D	11/16/2015	11:55
WELL 1-2A	480-90492-1	S4780.D	11/16/2015	13:05
WELL 1-3	480-90492-2	S4781.D	11/16/2015	13:28
WELL 1-1	480-90492-3	S4782.D	11/16/2015	13:51
4009-9	480-90492-4	S4783.D	11/16/2015	14:14
4009-10	480-90492-5	S4784.D	11/16/2015	14:37
4009-11	480-90492-6	S4785.D	11/16/2015	15:00
4009-12	480-90492-7	S4786.D	11/16/2015	15:22
4009-13	480-90492-8	S4787.D	11/16/2015	15:45
4009-13A	480-90492-9	S4788.D	11/16/2015	16:08
4009-14	480-90492-10	S4789.D	11/16/2015	16:31
4009-15	480-90492-11	S4790.D	11/16/2015	16:54
4009-16	480-90492-12	S4791.D	11/16/2015	17:17
4009-16A	480-90492-13	S4792.D	11/16/2015	17:40
4009-18	480-90492-14	S4793.D	11/16/2015	18:03
4009-19	480-90492-15	S4794.D	11/16/2015	18:25
4009-21	480-90492-16	S4795.D	11/16/2015	18:48
4009-22	480-90492-17	S4796.D	11/16/2015	19:10
4009-27S	480-90492-18	S4797.D	11/16/2015	19:33
4009-14 MS	480-90492-10 MS	S4798.D	11/16/2015	19:56
4009-14 MSD	480-90492-10 MSD	S4799.D	11/16/2015	20:18

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab File ID: S4804.D BFB Injection Date: 11/16/2015
 Instrument ID: HP5973S BFB Injection Time: 22:34
 Analysis Batch No.: 275311

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	29.0
75	30.0 - 60.0 % of mass 95	51.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	67.9
175	5.0 - 9.0 % of mass 174	4.9 (7.2) 1
176	95.0 - 101.0 % of mass 174	67.0 (98.5) 1
177	5.0 - 9.0 % of mass 176	4.6 (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 480-275311/2	S4805.D	11/16/2015	22:57
	CCV 480-275311/3	S4806.D	11/16/2015	23:20
	LCS 480-275311/4	S4807.D	11/16/2015	23:44
	MB 480-275311/6	S4809.D	11/17/2015	00:29
4009-27I	480-90492-19	S4810.D	11/17/2015	01:05
4009-27D	480-90492-20	S4811.D	11/17/2015	01:28
4009-28	480-90492-21	S4812.D	11/17/2015	01:50
4009-29S	480-90492-22	S4813.D	11/17/2015	02:13
4009-29I	480-90492-23	S4814.D	11/17/2015	02:36
4009-29D	480-90492-24	S4815.D	11/17/2015	02:59
4009-30	480-90492-25	S4816.D	11/17/2015	03:22
4009-30A	480-90492-26	S4817.D	11/17/2015	03:45
4009-11A	480-90492-27	S4818.D	11/17/2015	04:08
DUP-2	480-90492-29	S4820.D	11/17/2015	04:53
FIELD BLANK	480-90492-30	S4821.D	11/17/2015	05:16
TRIP BLANK	480-90492-31	S4822.D	11/17/2015	05:39

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab File ID: S4830.D BFB Injection Date: 11/17/2015
 Instrument ID: HP5973S BFB Injection Time: 09:37
 Analysis Batch No.: 275377

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	30.8
75	30.0 - 60.0 % of mass 95	52.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.2 (0.3)1
174	50.0 - 120.00 % of mass 95	69.4
175	5.0 - 9.0 % of mass 174	4.3 (6.2)1
176	95.0 - 101.0 % of mass 174	68.4 (98.6)1
177	5.0 - 9.0 % of mass 176	4.0 (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 480-275377/2	S4831.D	11/17/2015	10:14
	CCV 480-275377/3	S4832.D	11/17/2015	10:37
	LCS 480-275377/4	S4833.D	11/17/2015	11:01
	MB 480-275377/6	S4835.D	11/17/2015	11:47
DUP-1	480-90492-28	S4836.D	11/17/2015	12:10

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab File ID: S4860.D BFB Injection Date: 11/17/2015
 Instrument ID: HP5973S BFB Injection Time: 21:17
 Analysis Batch No.: 275520

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	28.8
75	30.0 - 60.0 % of mass 95	49.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.7
173	Less than 2.0 % of mass 174	0.6 (0.9)1
174	50.0 - 120.00 % of mass 95	71.2
175	5.0 - 9.0 % of mass 174	4.8 (6.8)1
176	95.0 - 101.0 % of mass 174	68.7 (96.6)1
177	5.0 - 9.0 % of mass 176	4.5 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-275520/2	S4861.D	11/17/2015	21:41
	CCV 480-275520/3	S4862.D	11/17/2015	22:05
	LCS 480-275520/4	S4863.D	11/17/2015	22:28
	MB 480-275520/6	S4865.D	11/17/2015	23:14
4009-27I MS	480-90492-19 MS	S4886.D	11/18/2015	07:34
4009-27I MSD	480-90492-19 MSD	S4887.D	11/18/2015	07:57

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Sample No.: ICIS 480-273987/9 Date Analyzed: 11/09/2015 19:14
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S4484.D Heated Purge: (Y/N) N
 Calibration ID: 25558

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	209703	5.40	398331	8.40	370912	10.78	
UPPER LIMIT	419406	5.90	796662	8.90	741824	11.28	
LOWER LIMIT	104852	4.90	199166	7.90	185456	10.28	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-275144/4		211325	5.40	393862	8.40	359380	10.79
CCVIS 480-275311/2		205643	5.40	385000	8.40	355927	10.78
CCVIS 480-275377/2		201006	5.40	372882	8.40	335779	10.78
CCVIS 480-275520/2		193125	5.40	363406	8.40	342181	10.79

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Sample No.: CCVIS 480-275144/4 Date Analyzed: 11/16/2015 09:43
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S4773.D Heated Purge: (Y/N) N
 Calibration ID: 25561

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		211325	5.40	393862	8.40	359380	10.79
UPPER LIMIT		422650	5.90	787724	8.90	718760	11.29
LOWER LIMIT		105663	4.90	196931	7.90	179690	10.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-275144/5		198384	5.40	391089	8.40	339351	10.79
MB 480-275144/8		194190	5.40	356020	8.40	316381	10.78
LCS 480-275144/29		197683	5.40	379580	8.40	350691	10.78
480-90492-1	WELL 1-2A	196839	5.40	367543	8.40	329868	10.79
480-90492-2	WELL 1-3	189689	5.40	364584	8.40	310081	10.78
480-90492-3	WELL 1-1	189293	5.41	363099	8.40	307710	10.78
480-90492-4	4009-9	182085	5.40	344349	8.40	298361	10.78
480-90492-5	4009-10	181548	5.40	342597	8.40	297852	10.79
480-90492-6	4009-11	180794	5.41	345831	8.40	307805	10.78
480-90492-7	4009-12	180711	5.40	348985	8.40	306484	10.78
480-90492-8	4009-13	183902	5.41	346922	8.40	303566	10.78
480-90492-9	4009-13A	173789	5.41	336014	8.40	292107	10.78
480-90492-10	4009-14	181896	5.40	334077	8.40	292924	10.78
480-90492-11	4009-15	183658	5.40	352959	8.40	305469	10.78
480-90492-12	4009-16	188172	5.41	353390	8.40	308487	10.78
480-90492-13	4009-16A	169506	5.40	333257	8.40	283811	10.79
480-90492-14	4009-18	173764	5.40	333021	8.40	293207	10.78
480-90492-15	4009-19	169682	5.41	331167	8.40	291837	10.78
480-90492-16	4009-21	173474	5.40	340703	8.40	288151	10.78
480-90492-17	4009-22	187874	5.40	368126	8.40	326959	10.79
480-90492-18	4009-27S	176282	5.41	340907	8.40	297043	10.79
480-90492-10 MS	4009-14 MS	195426	5.41	377282	8.40	335233	10.78
480-90492-10 MSD	4009-14 MSD	201016	5.41	383643	8.40	347351	10.79

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Sample No.: CCVIS 480-275311/2 Date Analyzed: 11/16/2015 22:57
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S4805.D Heated Purge: (Y/N) N
 Calibration ID: 25561

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		205643	5.40	385000	8.40	355927	10.78
UPPER LIMIT		411286	5.90	770000	8.90	711854	11.28
LOWER LIMIT		102822	4.90	192500	7.90	177964	10.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-275311/3		198937	5.40	380289	8.40	333680	10.78
LCS 480-275311/4		212423	5.40	401618	8.40	365996	10.78
MB 480-275311/6		197227	5.41	370950	8.40	320228	10.79
480-90492-19	4009-27I	187657	5.41	358406	8.40	310138	10.79
480-90492-20	4009-27D	196231	5.40	367706	8.40	318288	10.78
480-90492-21	4009-28	191723	5.40	357669	8.40	315224	10.78
480-90492-22	4009-29S	178114	5.41	340089	8.40	299409	10.78
480-90492-23	4009-29I	174886	5.41	329640	8.40	287141	10.78
480-90492-24	4009-29D	180010	5.40	344042	8.40	300165	10.78
480-90492-25	4009-30	178303	5.40	336295	8.40	285336	10.79
480-90492-26	4009-30A	169441	5.41	321296	8.39	279579	10.78
480-90492-27	4009-11A	177975	5.40	344963	8.40	299536	10.78
480-90492-29	DUP-2	178623	5.40	339665	8.40	291063	10.79
480-90492-30	FIELD BLANK	166835	5.41	336570	8.40	290424	10.78
480-90492-31	TRIP BLANK	163154	5.41	315995	8.40	274755	10.78

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Sample No.: CCVIS 480-275377/2 Date Analyzed: 11/17/2015 10:14
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S4831.D Heated Purge: (Y/N) N
 Calibration ID: 25561

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	201006	5.40	372882	8.40	335779	10.78	
UPPER LIMIT	402012	5.90	745764	8.90	671558	11.28	
LOWER LIMIT	100503	4.90	186441	7.90	167890	10.28	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-275377/3		195382	5.40	368372	8.39	316987	10.78
LCS 480-275377/4		201551	5.40	375771	8.40	340691	10.78
MB 480-275377/6		182286	5.40	347230	8.39	298511	10.78
480-90492-28	DUP-1	189123	5.40	357564	8.40	302753	10.78

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Sample No.: CCVIS 480-275520/2 Date Analyzed: 11/17/2015 21:41
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S4861.D Heated Purge: (Y/N) N
 Calibration ID: 25561

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		193125	5.40	363406	8.40	342181	10.79
UPPER LIMIT		386250	5.90	726812	8.90	684362	11.29
LOWER LIMIT		96563	4.90	181703	7.90	171091	10.29
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCV 480-275520/3		194553	5.40	380451	8.39	329000	10.78
LCS 480-275520/4		197476	5.41	390325	8.40	345113	10.78
MB 480-275520/6		185829	5.40	359575	8.40	312289	10.78
480-90492-19 MS	4009-27I MS	181533	5.40	351879	8.40	314220	10.78
480-90492-19 MSD	4009-27I MSD	176543	5.40	342774	8.40	305863	10.78

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: WELL 1-2A Lab Sample ID: 480-90492-1

Matrix: Water Lab File ID: S4780.D

Analysis Method: 8260C Date Collected: 11/04/2015 08:10

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 13:05

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: WELL 1-2A Lab Sample ID: 480-90492-1
 Matrix: Water Lab File ID: S4780.D
 Analysis Method: 8260C Date Collected: 11/04/2015 08:10
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 13:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4780.D
 Lims ID: 480-90492-A-1 Lab Sample ID: 480-90492-1
 Client ID: WELL 1-2A
 Sample Type: Client
 Inject. Date: 16-Nov-2015 13:05:30 ALS Bottle#: 69 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-1
 Misc. Info.: 480-0048379-009
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 14:04:32 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:20:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	196839	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	367543	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	96	329868	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	60	208561	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166346	27.2	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	863966	26.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.644	0.006	85	237352	26.4	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43		2.734				ND	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.984	6.984	0.000	34	2010	0.1017	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4780.D

Injection Date: 16-Nov-2015 13:05:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-1

Lab Sample ID: 480-90492-1

Worklist Smp#: 9

Client ID: WELL 1-2A

Purge Vol: 5.000 mL

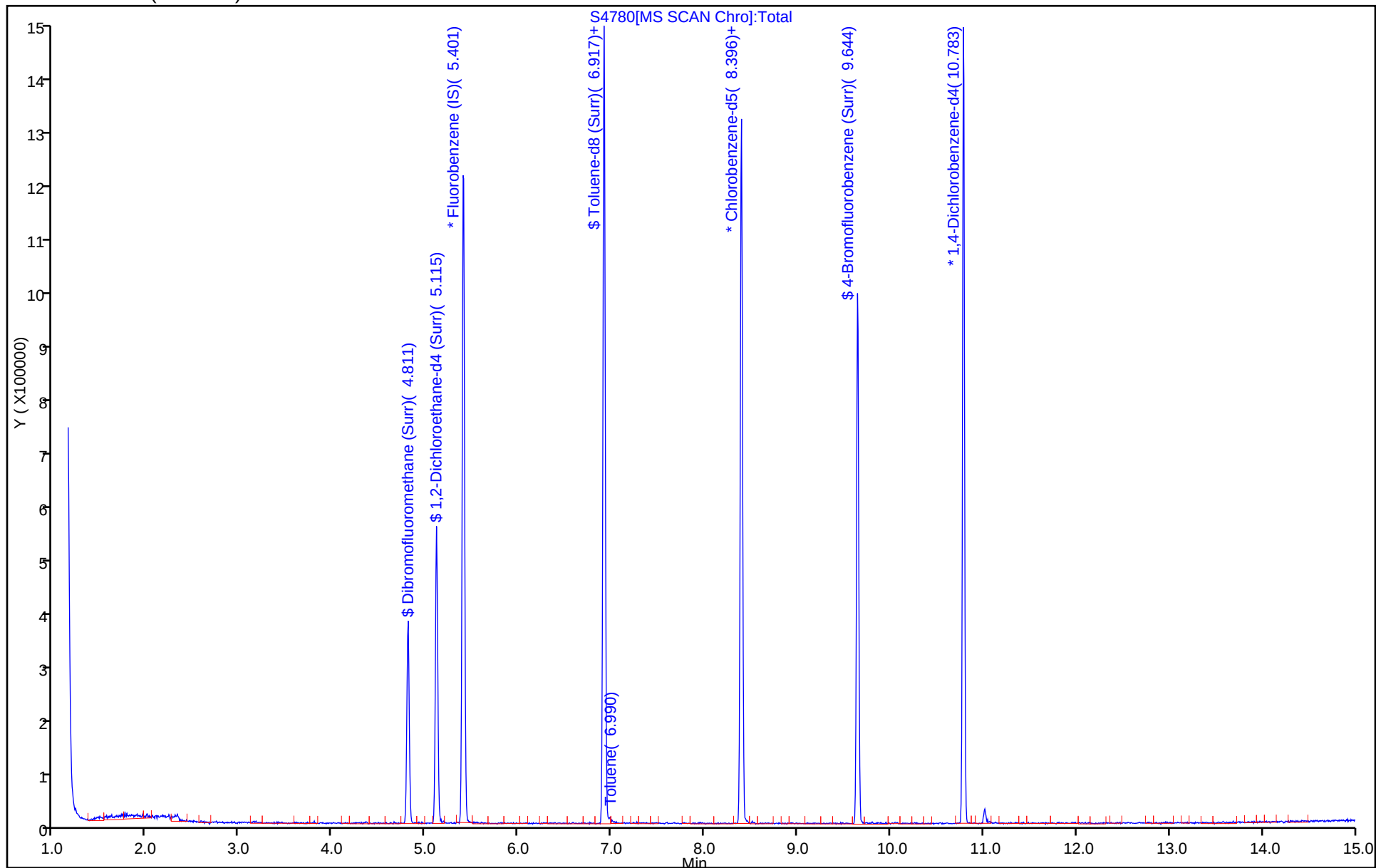
Dil. Factor: 1.0000

ALS Bottle#: 69

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL 1-3</u>	Lab Sample ID: <u>480-90492-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4781.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 08:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 13:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: WELL 1-3 Lab Sample ID: 480-90492-2
 Matrix: Water Lab File ID: S4781.D
 Analysis Method: 8260C Date Collected: 11/04/2015 08:15
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 13:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4781.D
 Lims ID: 480-90492-A-2 Lab Sample ID: 480-90492-2
 Client ID: WELL 1-3
 Sample Type: Client
 Inject. Date: 16-Nov-2015 13:28:30 ALS Bottle#: 70 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-2
 Misc. Info.: 480-0048379-010
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:20:42 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:20:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	97	189689	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	364584	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	310081	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	57	199579	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	161530	27.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	840374	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	229110	25.7	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.747	2.747	0.013	73	4699	1.19	M
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4781.D

Injection Date: 16-Nov-2015 13:28:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-2

Lab Sample ID: 480-90492-2

Worklist Smp#: 10

Client ID: WELL 1-3

Purge Vol: 5.000 mL

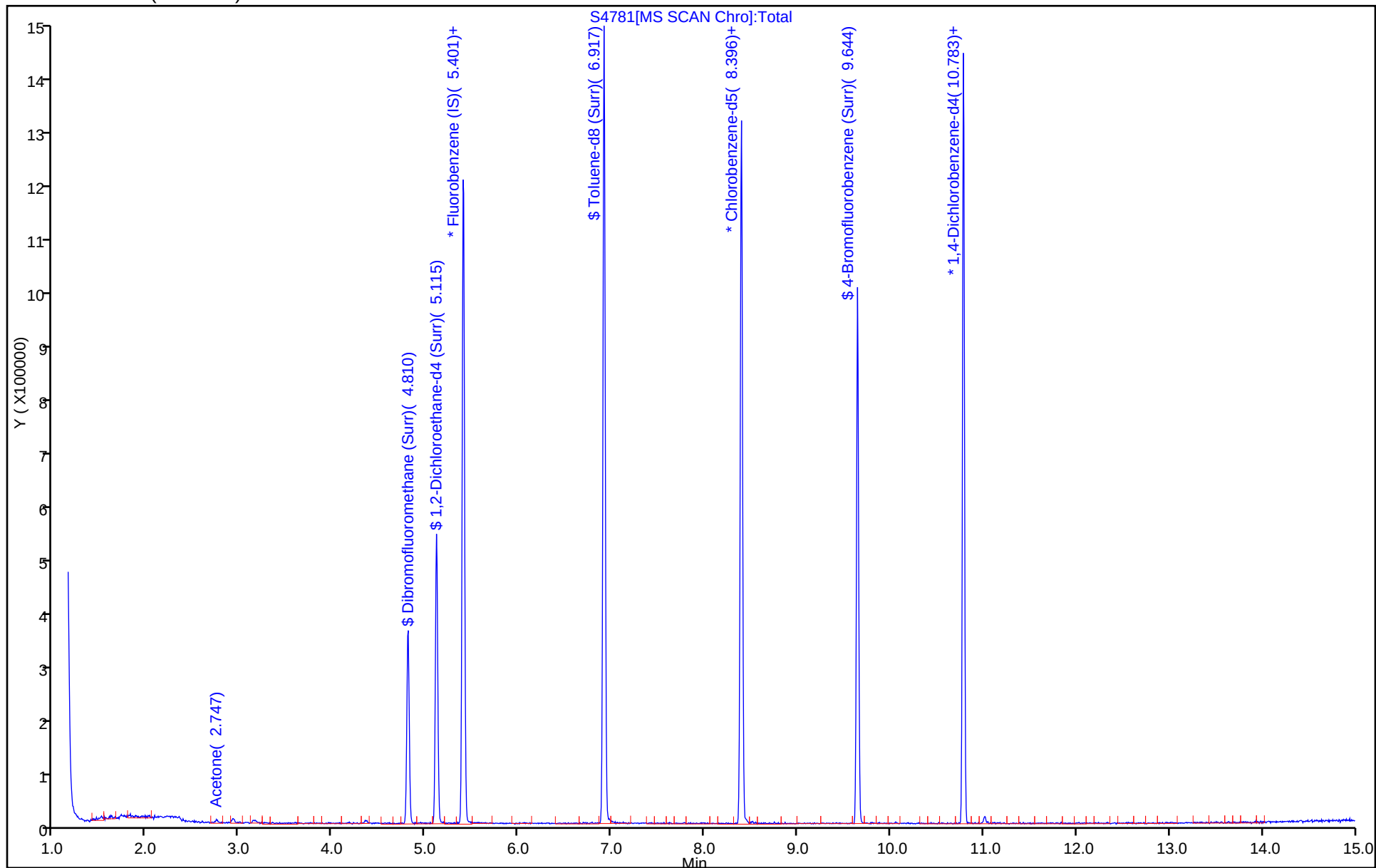
Dil. Factor: 1.0000

ALS Bottle#: 70

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



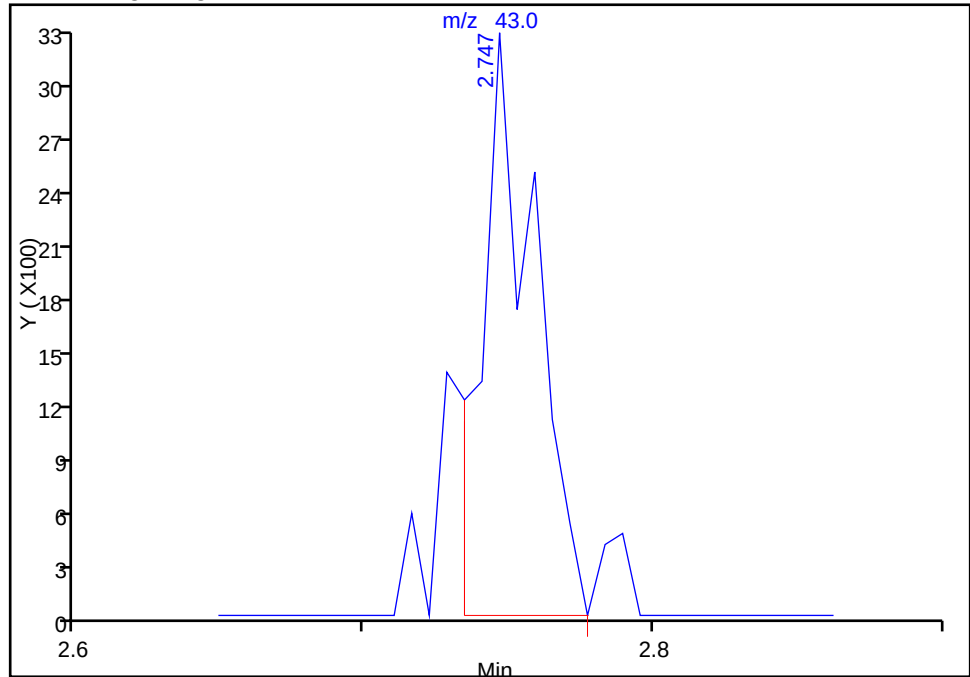
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4781.D		
Injection Date:	16-Nov-2015 13:28:30	Instrument ID:	HP5973S
Lims ID:	480-90492-A-2	Lab Sample ID:	480-90492-2
Client ID:	WELL 1-3		
Operator ID:	GTG	ALS Bottle#:	70
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
		Worklist Smp#:	10

23 Acetone, CAS: 67-64-1

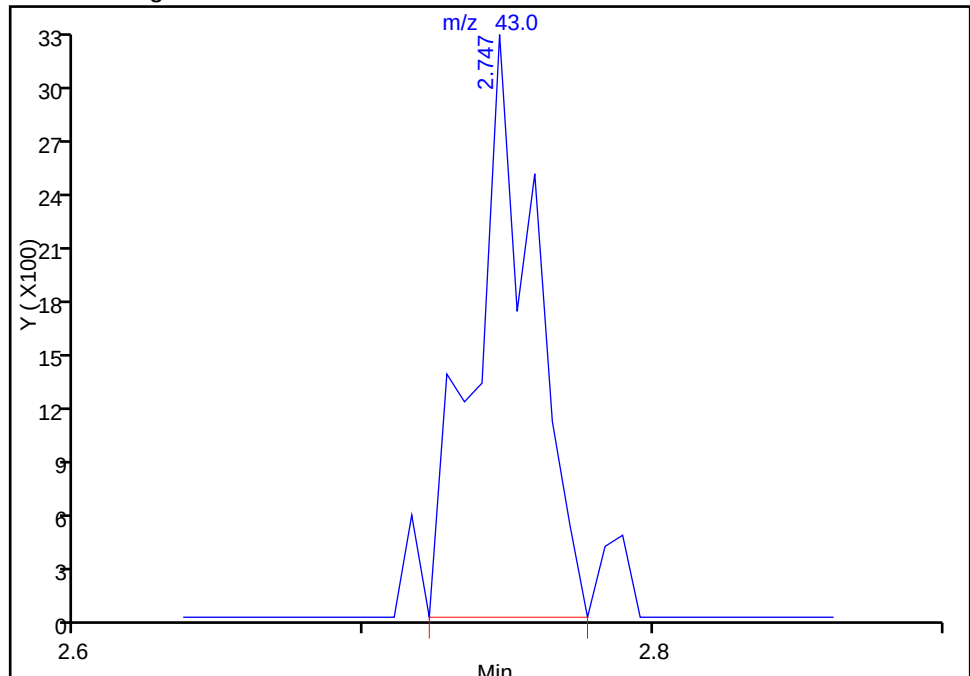
RT: 2.75
Area: 4204
Amount: 1.066336
Amount Units: ug/L

Processing Integration Results



RT: 2.75
Area: 4699
Amount: 1.191892
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 16-Nov-2015 16:20:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: WELL 1-1 Lab Sample ID: 480-90492-3

Matrix: Water Lab File ID: S4782.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:10

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 13:51

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	350		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	28		5.0	1.9
75-35-4	1,1-Dichloroethene	41		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	82		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: WELL 1-1 Lab Sample ID: 480-90492-3
 Matrix: Water Lab File ID: S4782.D
 Analysis Method: 8260C Date Collected: 11/04/2015 10:10
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 13:51
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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	81		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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4782.D
 Lims ID: 480-90492-A-3 Lab Sample ID: 480-90492-3
 Client ID: WELL 1-1
 Sample Type: Client
 Inject. Date: 16-Nov-2015 13:51:30 ALS Bottle#: 71 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-90492-a-3
 Misc. Info.: 480-0048379-011
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:21:31 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:21:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	189293	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	363099	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	307710	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.810	-0.006	66	217850	27.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	162422	27.6	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	827386	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	222489	25.1	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.662	2.655	0.007	79	58402	8.11	
23 Acetone	43		2.734				ND	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	82	99589	5.64	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	70	134940	16.3	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	88	660263	69.6	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.748	5.748	0.000	87	127086	16.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4782.D

Injection Date: 16-Nov-2015 13:51:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-3

Lab Sample ID: 480-90492-3

Worklist Smp#: 11

Client ID: WELL 1-1

Purge Vol: 5.000 mL

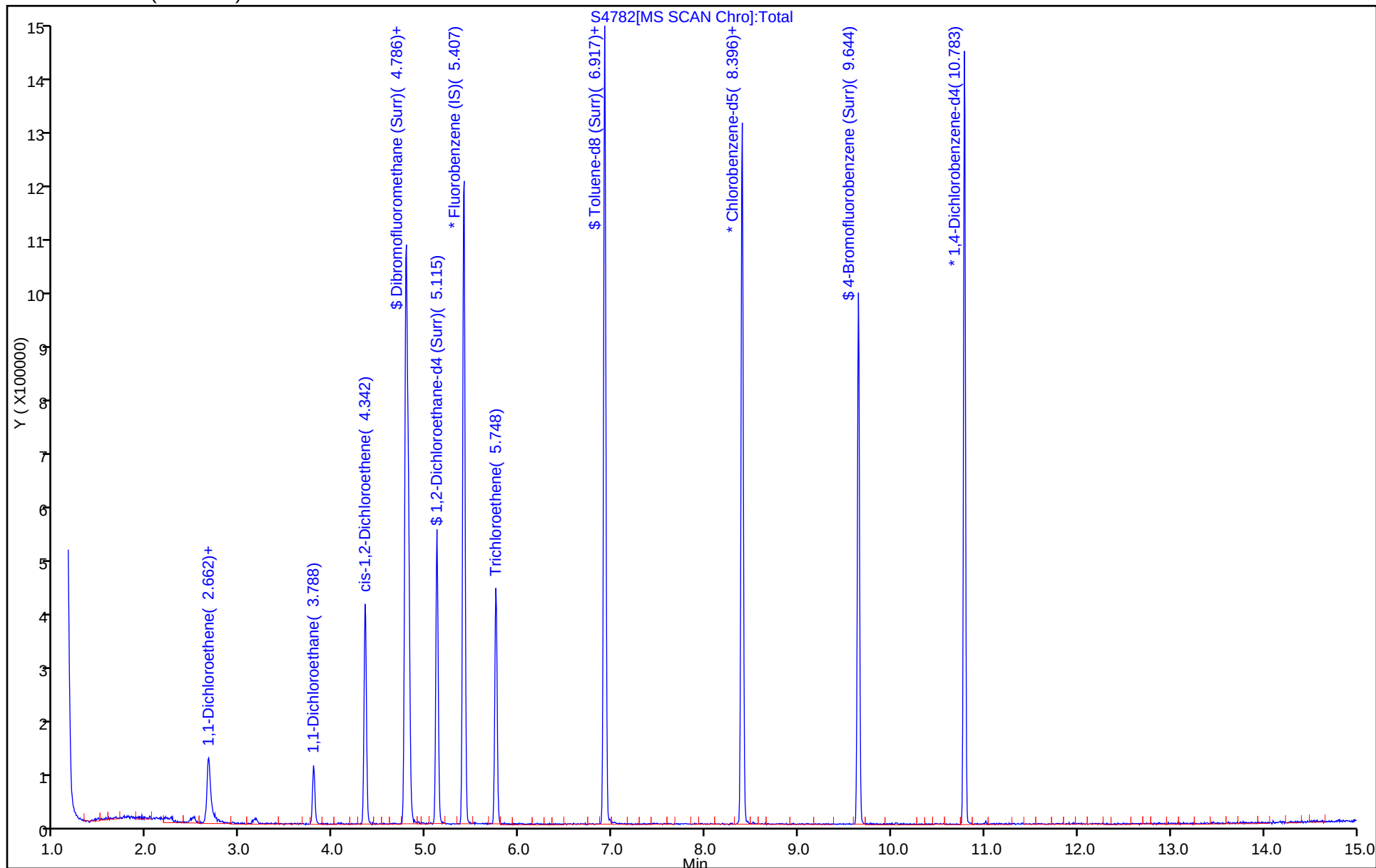
Dil. Factor: 5.0000

ALS Bottle#: 71

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4782.D

Injection Date: 16-Nov-2015 13:51:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-3

Lab Sample ID: 480-90492-3

Client ID: WELL 1-1

Operator ID: GTG

ALS Bottle#: 71

Worklist Smp#: 11

Purge Vol: 5.000 mL

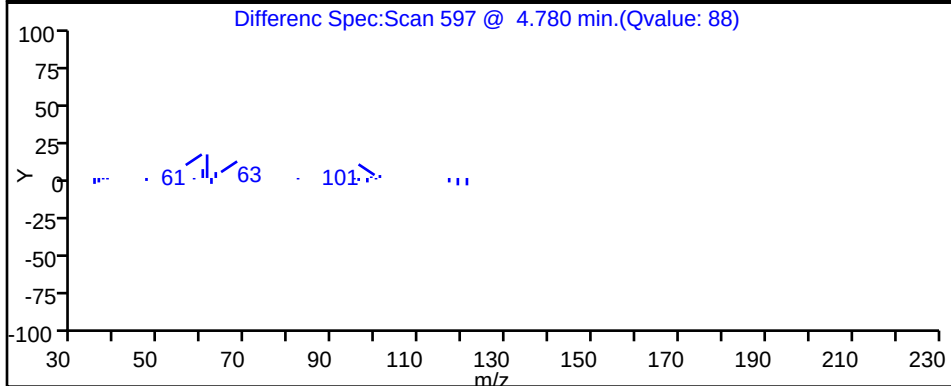
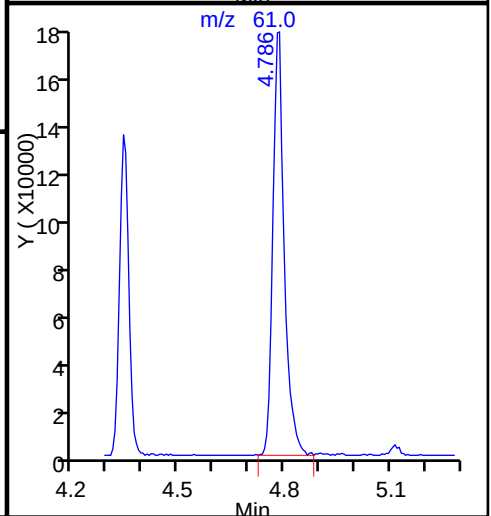
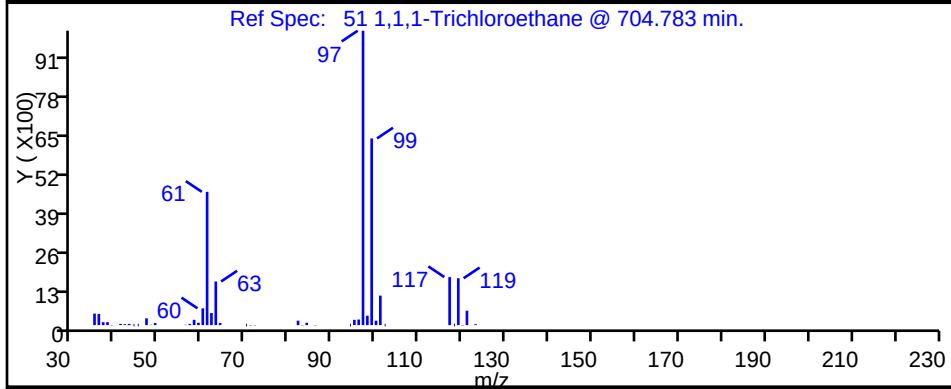
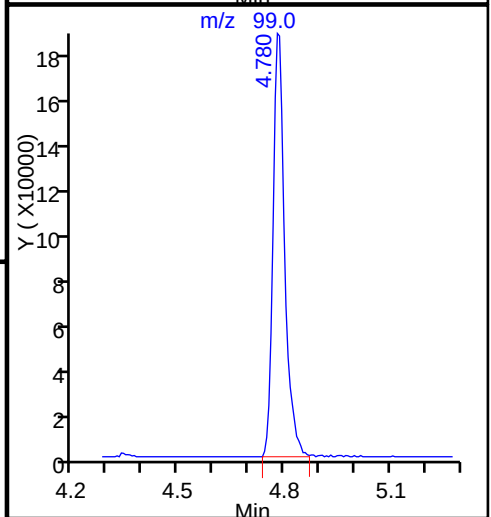
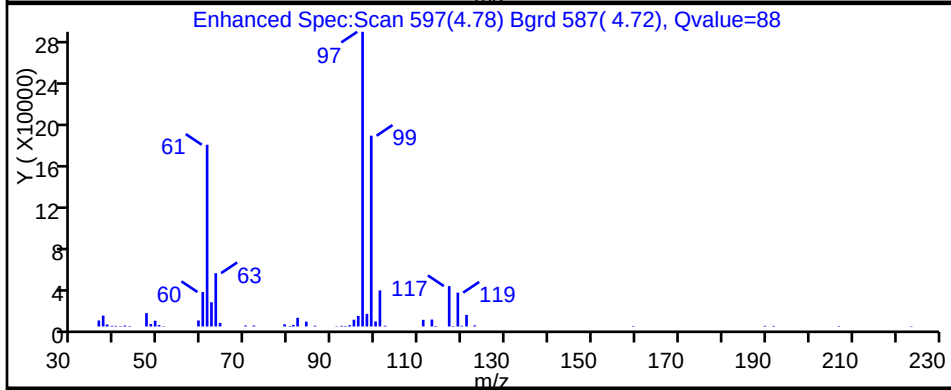
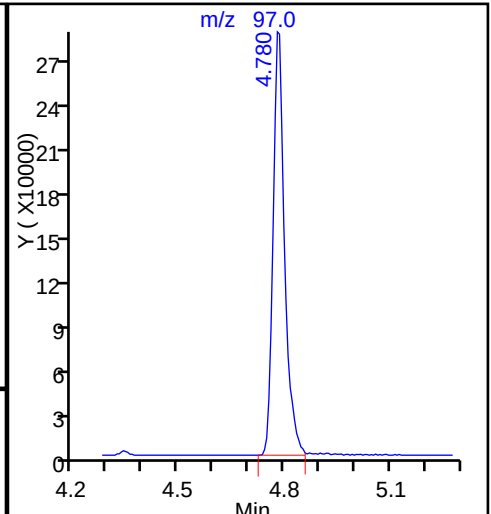
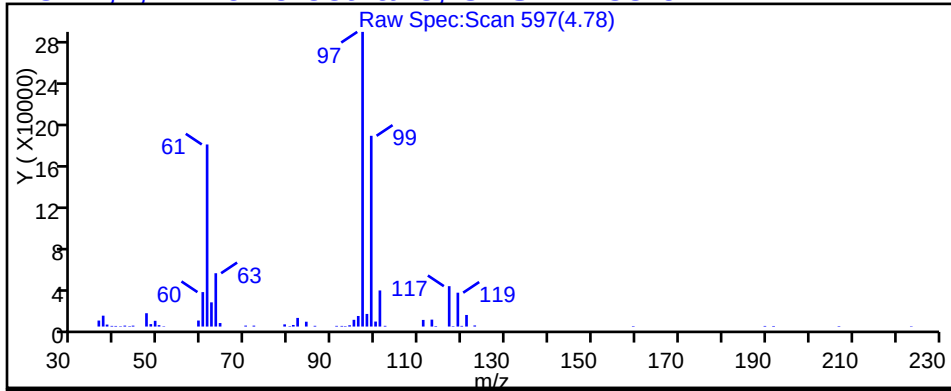
Dil. Factor: 5.0000

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\20151116-48379.b\S4782.D

Injection Date: 16-Nov-2015 13:51:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-3

Lab Sample ID: 480-90492-3

Client ID: WELL 1-1

Operator ID: GTG

ALS Bottle#: 71

Worklist Smp#: 11

Purge Vol: 5.000 mL

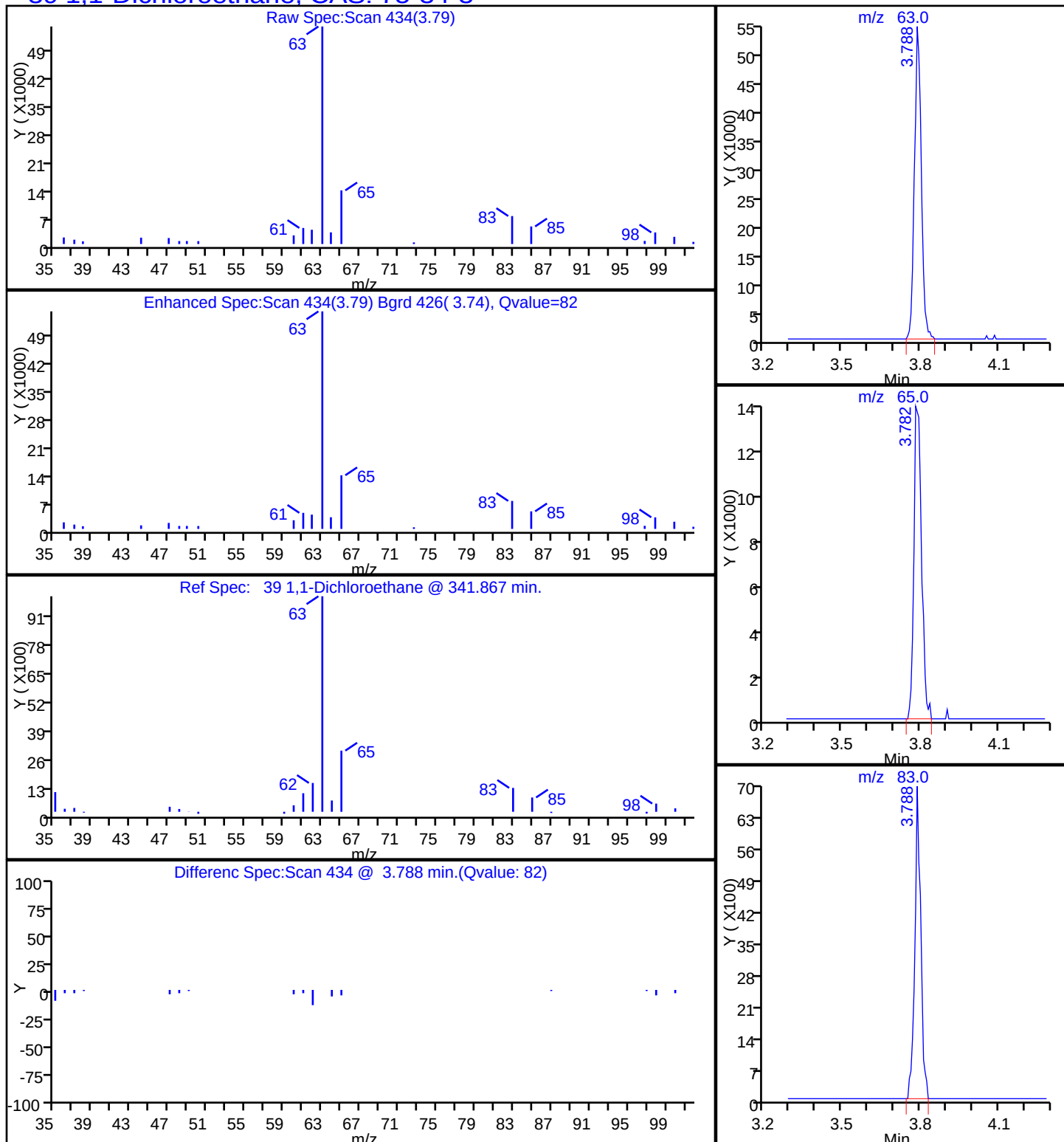
Dil. Factor: 5.0000

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\20151116-48379.b\S4782.D

Injection Date: 16-Nov-2015 13:51:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-3

Lab Sample ID: 480-90492-3

Client ID: WELL 1-1

Operator ID: GTG

ALS Bottle#: 71

Worklist Smp#: 11

Purge Vol: 5.000 mL

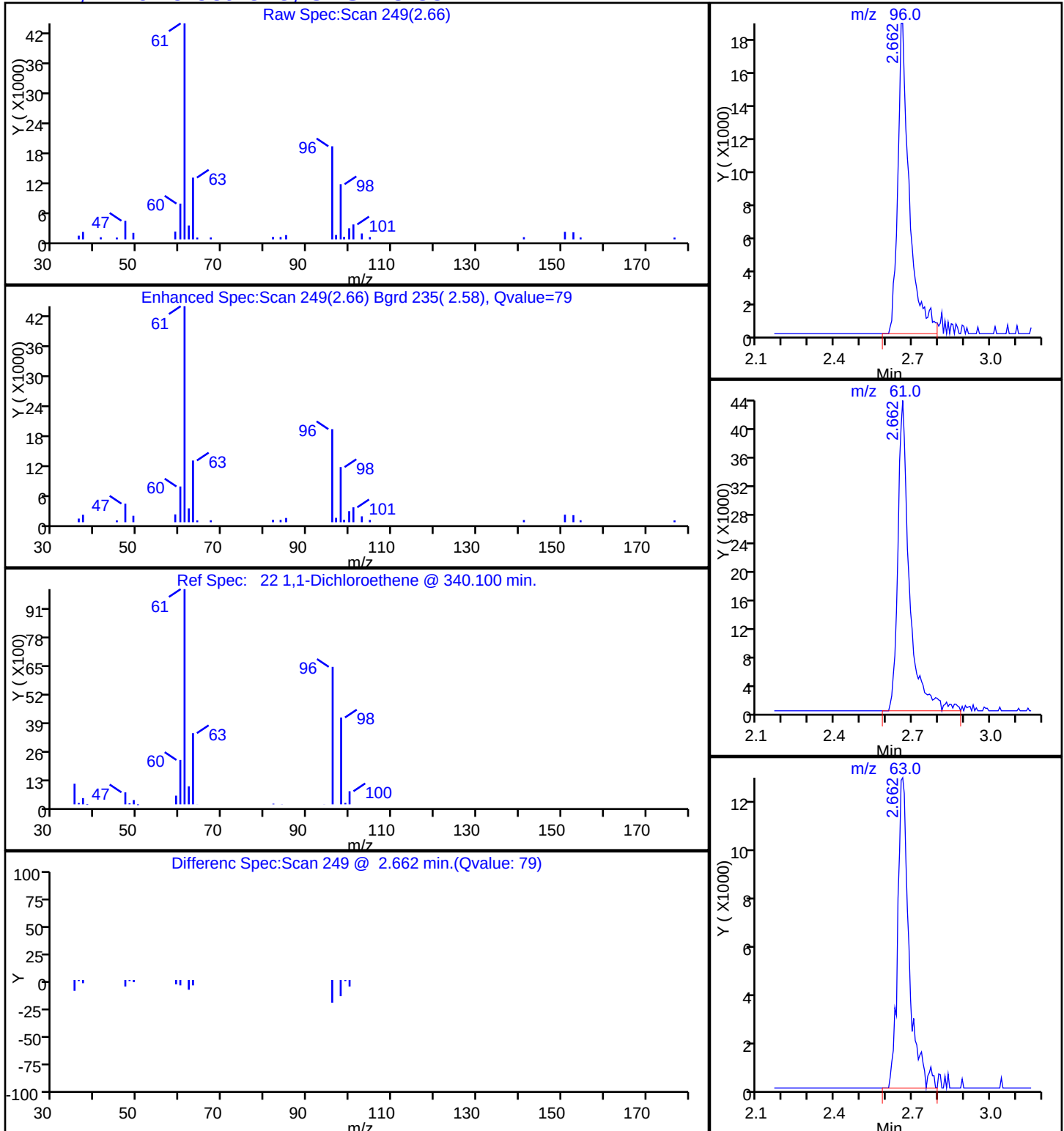
Dil. Factor: 5.0000

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\20151116-48379.b\S4782.D

Injection Date: 16-Nov-2015 13:51:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-3

Lab Sample ID: 480-90492-3

Client ID: WELL 1-1

Operator ID: GTG

ALS Bottle#: 71

Worklist Smp#: 11

Purge Vol: 5.000 mL

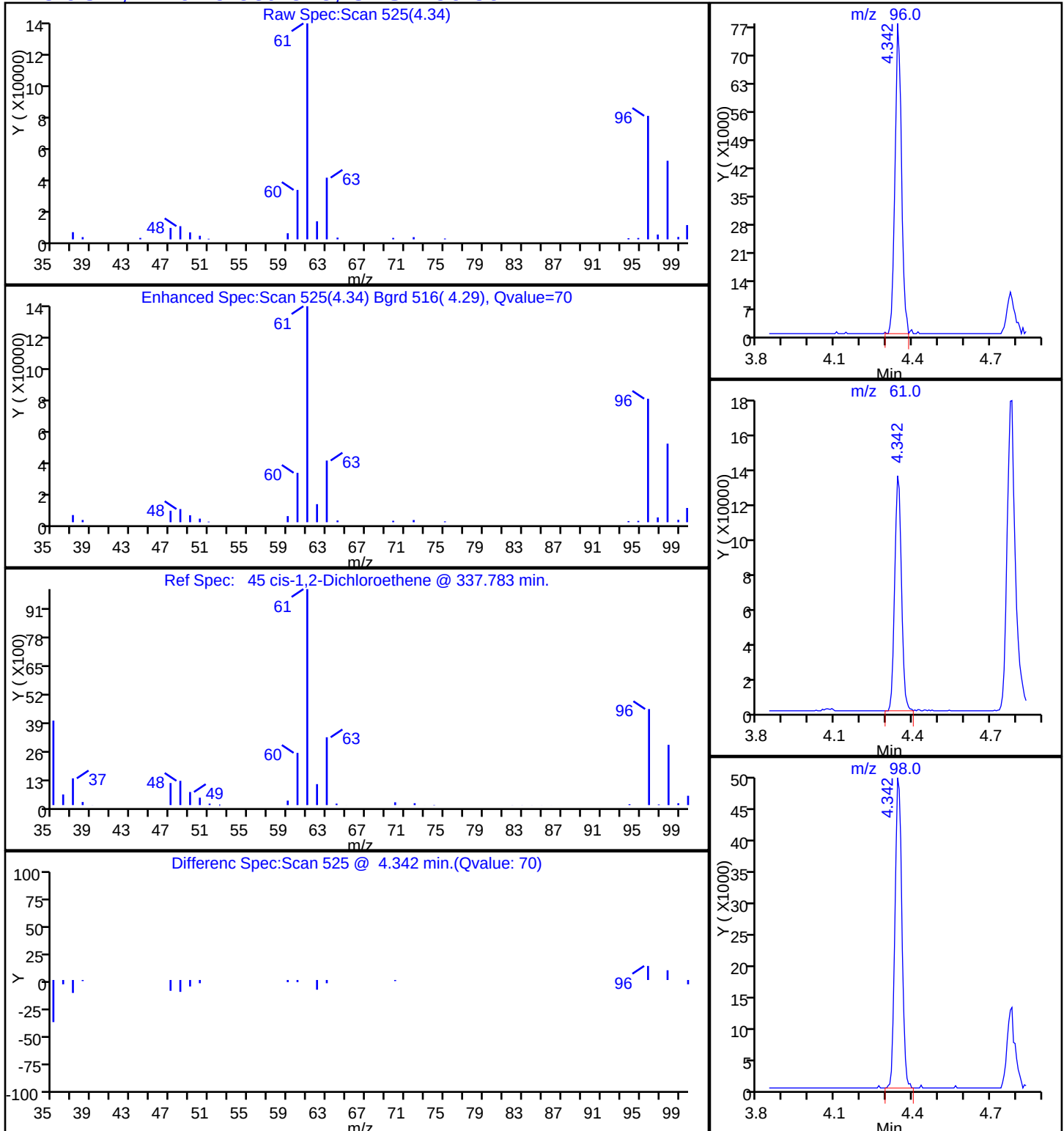
Dil. Factor: 5.0000

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\20151116-48379.b\S4782.D

Injection Date: 16-Nov-2015 13:51:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-3

Lab Sample ID: 480-90492-3

Client ID: WELL 1-1

Operator ID: GTG

ALS Bottle#: 71

Worklist Smp#: 11

Purge Vol: 5.000 mL

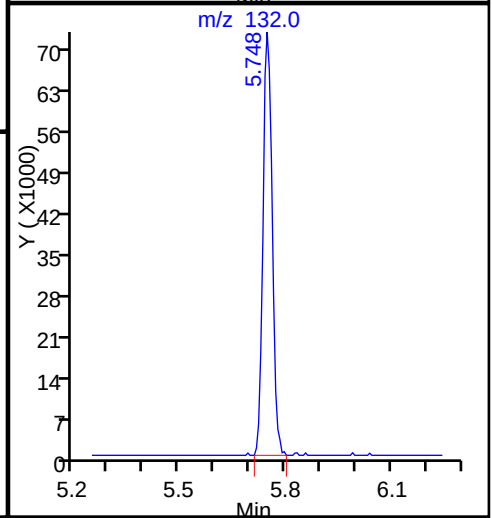
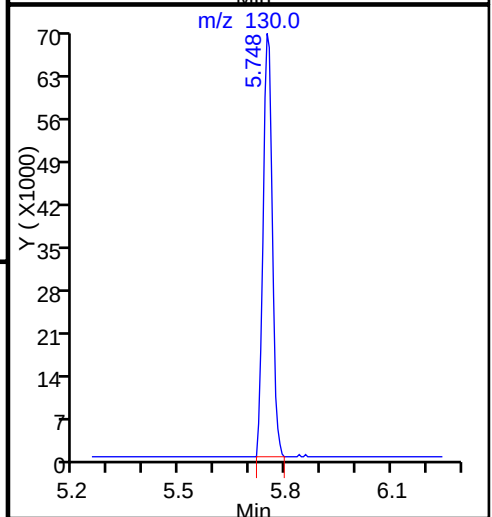
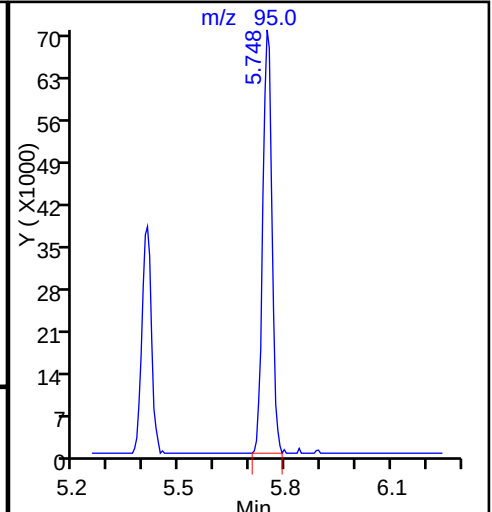
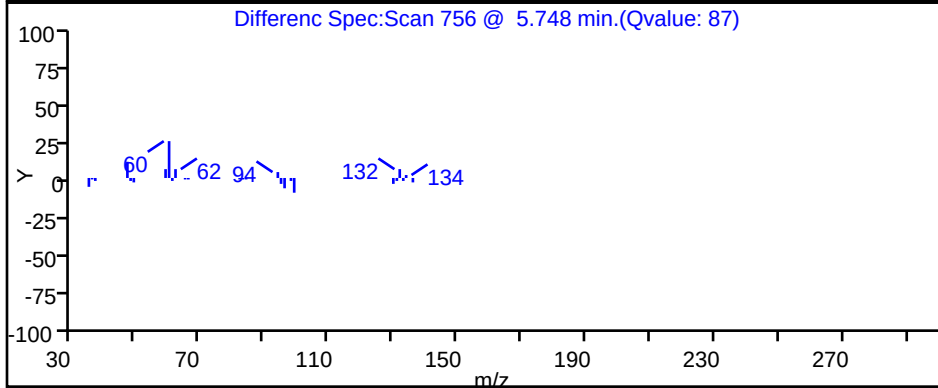
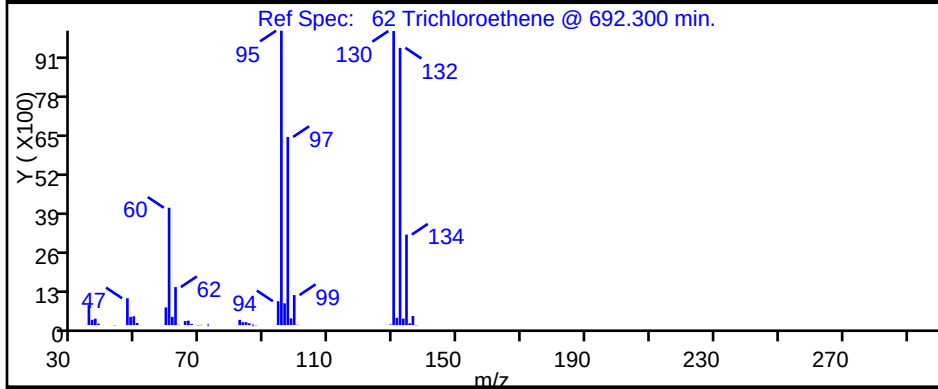
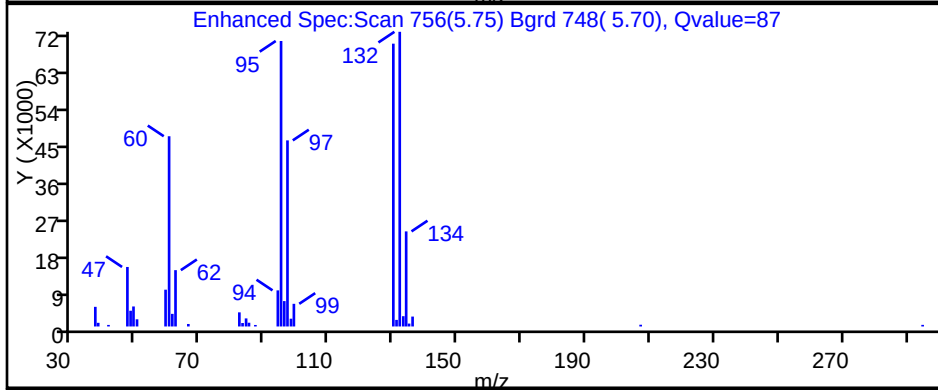
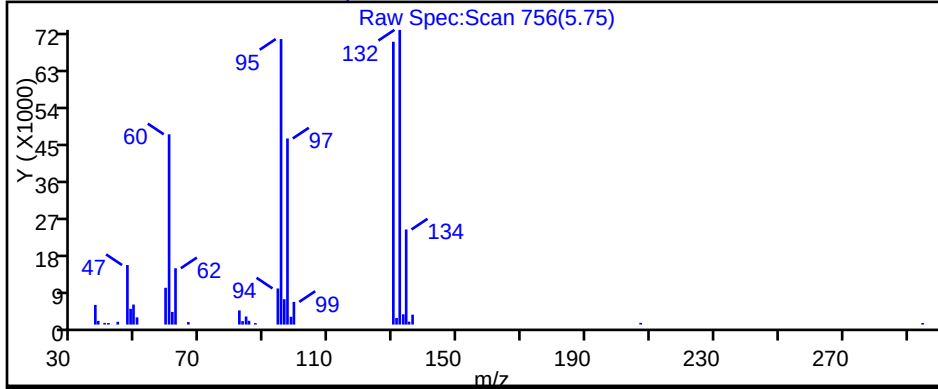
Dil. Factor: 5.0000

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-9</u>	Lab Sample ID: <u>480-90492-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4783.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 11:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 14:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	0.38	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	2.5		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	21		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-9 Lab Sample ID: 480-90492-4
 Matrix: Water Lab File ID: S4783.D
 Analysis Method: 8260C Date Collected: 11/04/2015 11:15
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 14:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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	0.52	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)	107		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4783.D
 Lims ID: 480-90492-A-4 Lab Sample ID: 480-90492-4
 Client ID: 4009-9
 Sample Type: Client
 Inject. Date: 16-Nov-2015 14:14:30 ALS Bottle#: 72 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-4
 Misc. Info.: 480-0048379-012
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:21:31 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:22:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	182085	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	344349	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.782	10.789	-0.007	96	298361	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	56	202764	26.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	164975	29.2	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	827053	27.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	220606	26.2	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.505	1.505	0.000	22	2801	0.3026	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.747	2.734	0.012	82	4668	1.23	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73	3.374	3.368	0.006	13	2153	0.1017	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	3	6374	0.3753	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	163409	20.6	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	84	78589	2.55	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.754	5.748	0.006	39	3919	0.5207	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4783.D

Injection Date: 16-Nov-2015 14:14:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-4

Lab Sample ID: 480-90492-4

Worklist Smp#: 12

Client ID: 4009-9

Purge Vol: 5.000 mL

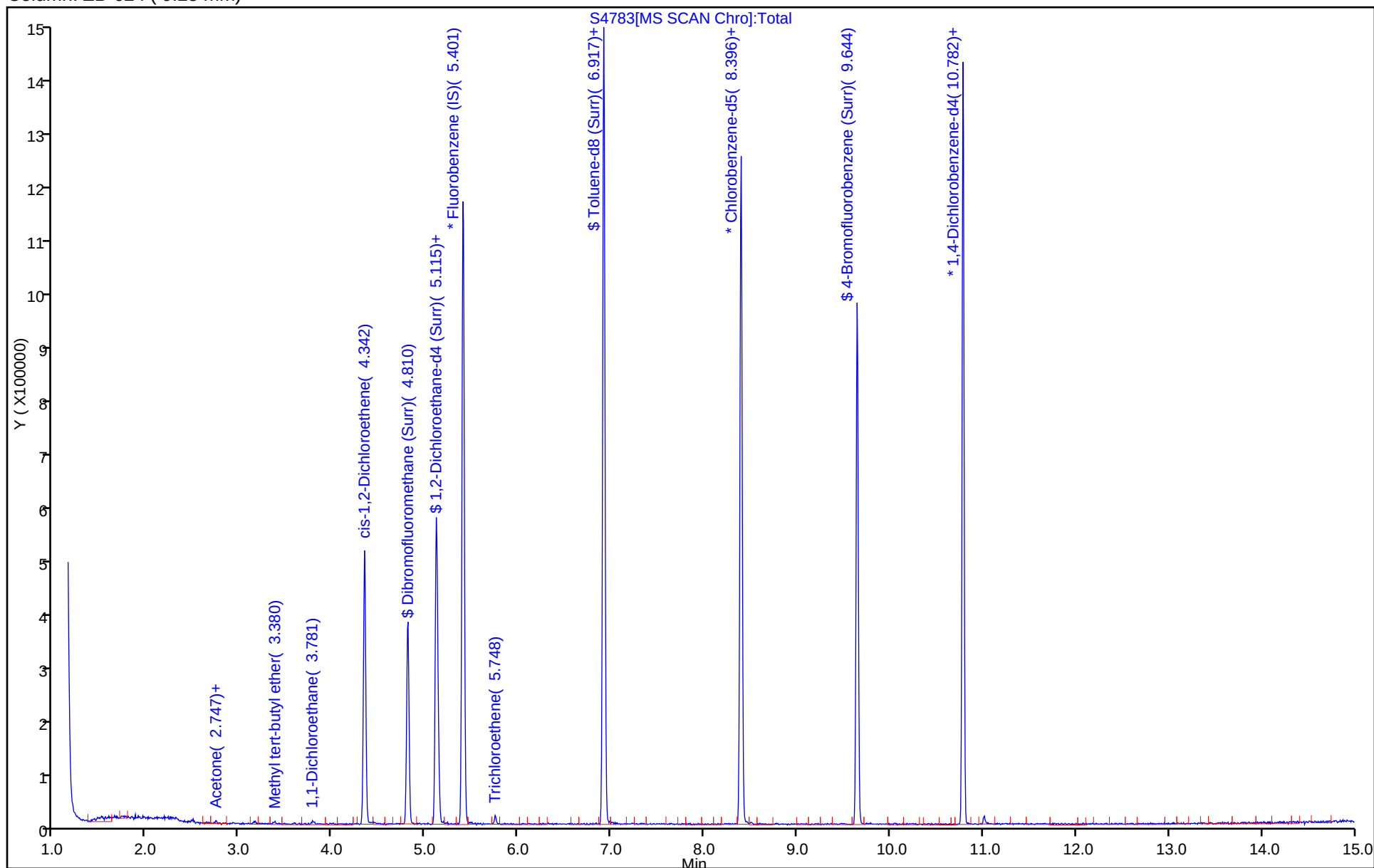
Dil. Factor: 1.0000

ALS Bottle#: 72

Method: S-8260

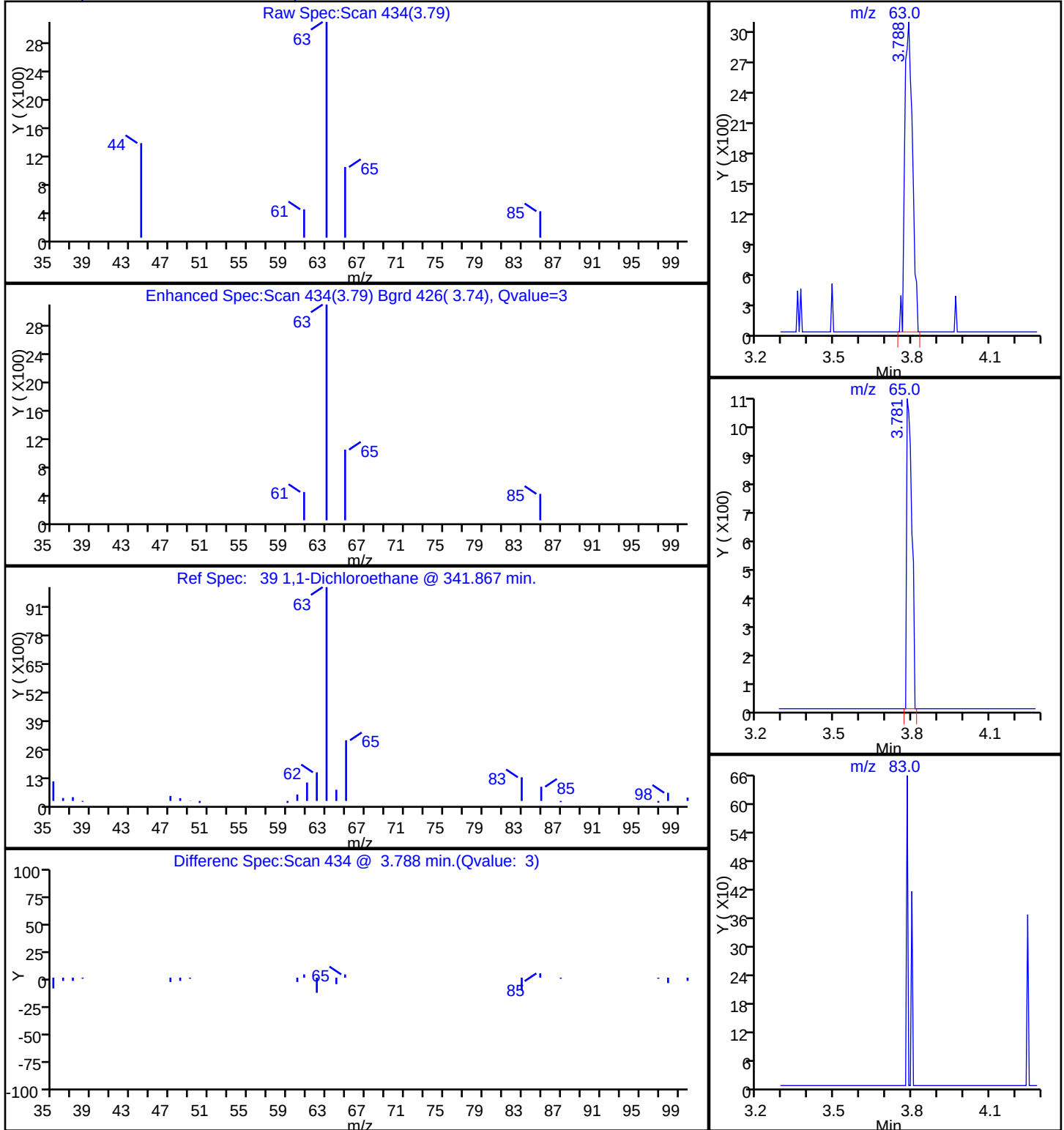
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4783.D
Injection Date: 16-Nov-2015 14:14:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-4 Lab Sample ID: 480-90492-4
Client ID: 4009-9
Operator ID: GTG ALS Bottle#: 72 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

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4783.D

Injection Date: 16-Nov-2015 14:14:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-4

Lab Sample ID: 480-90492-4

Client ID: 4009-9

Operator ID: GTG

ALS Bottle#: 72

Worklist Smp#: 12

Purge Vol: 5.000 mL

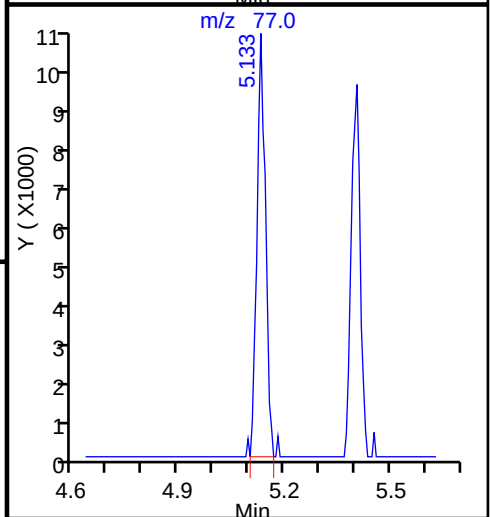
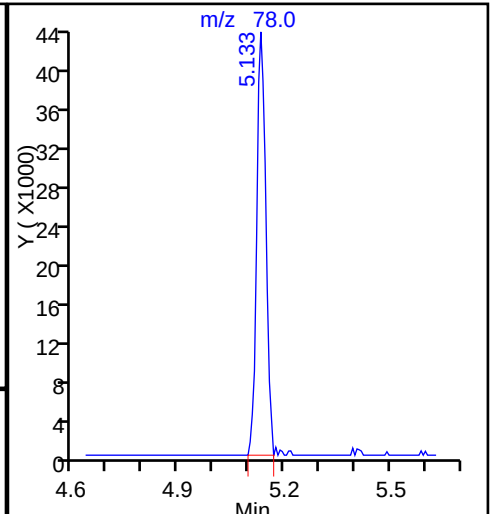
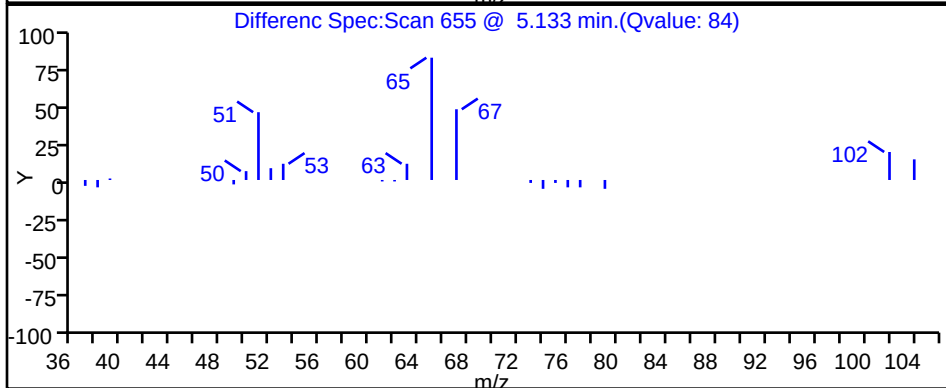
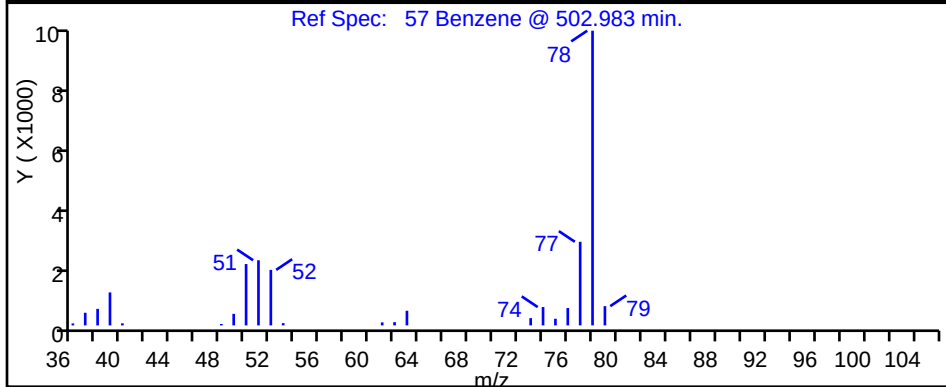
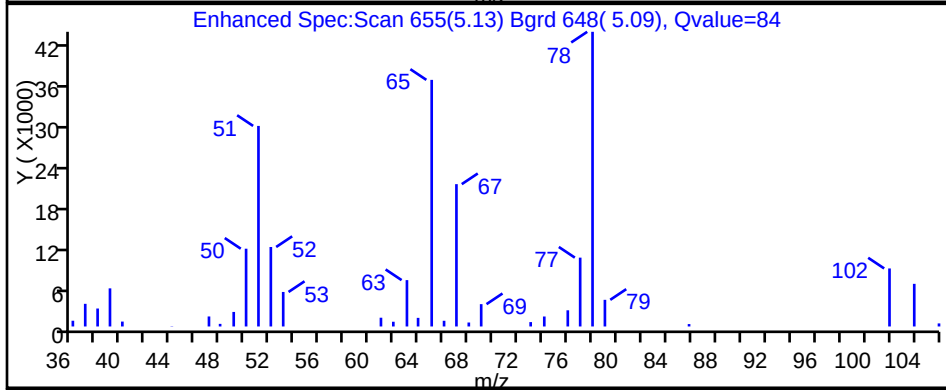
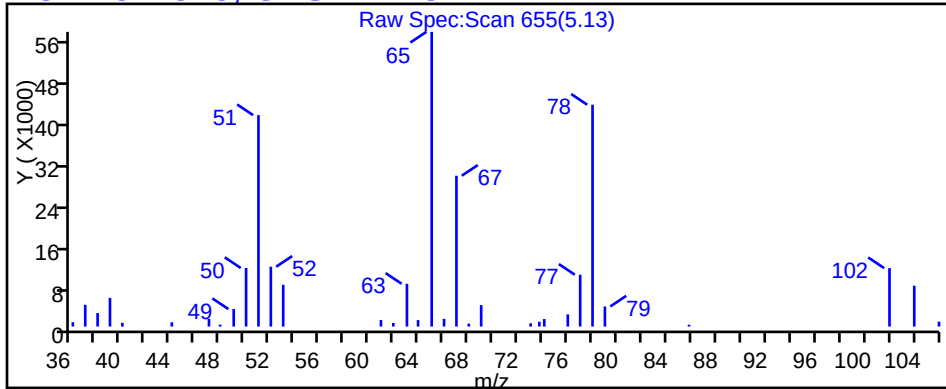
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

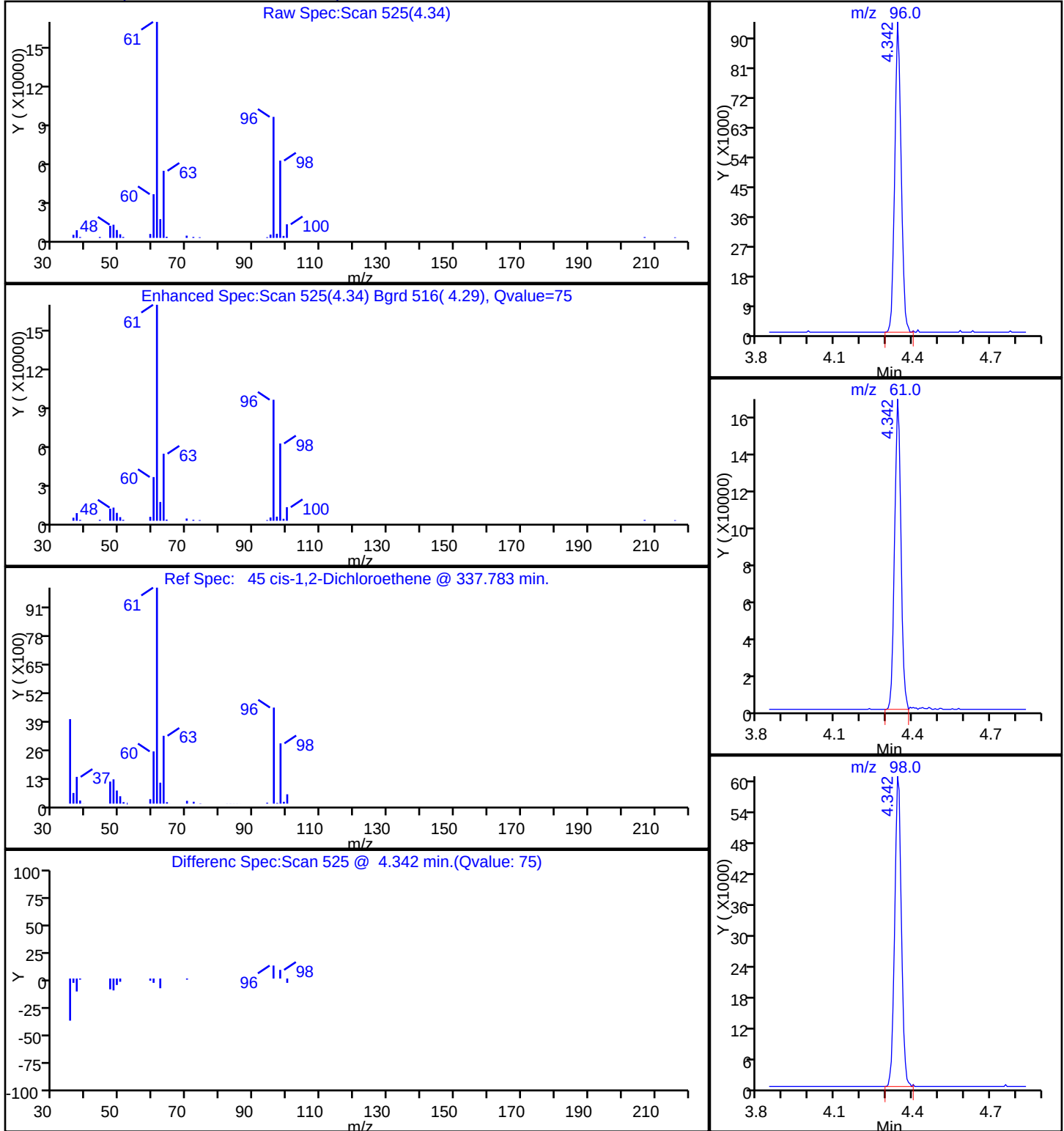
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

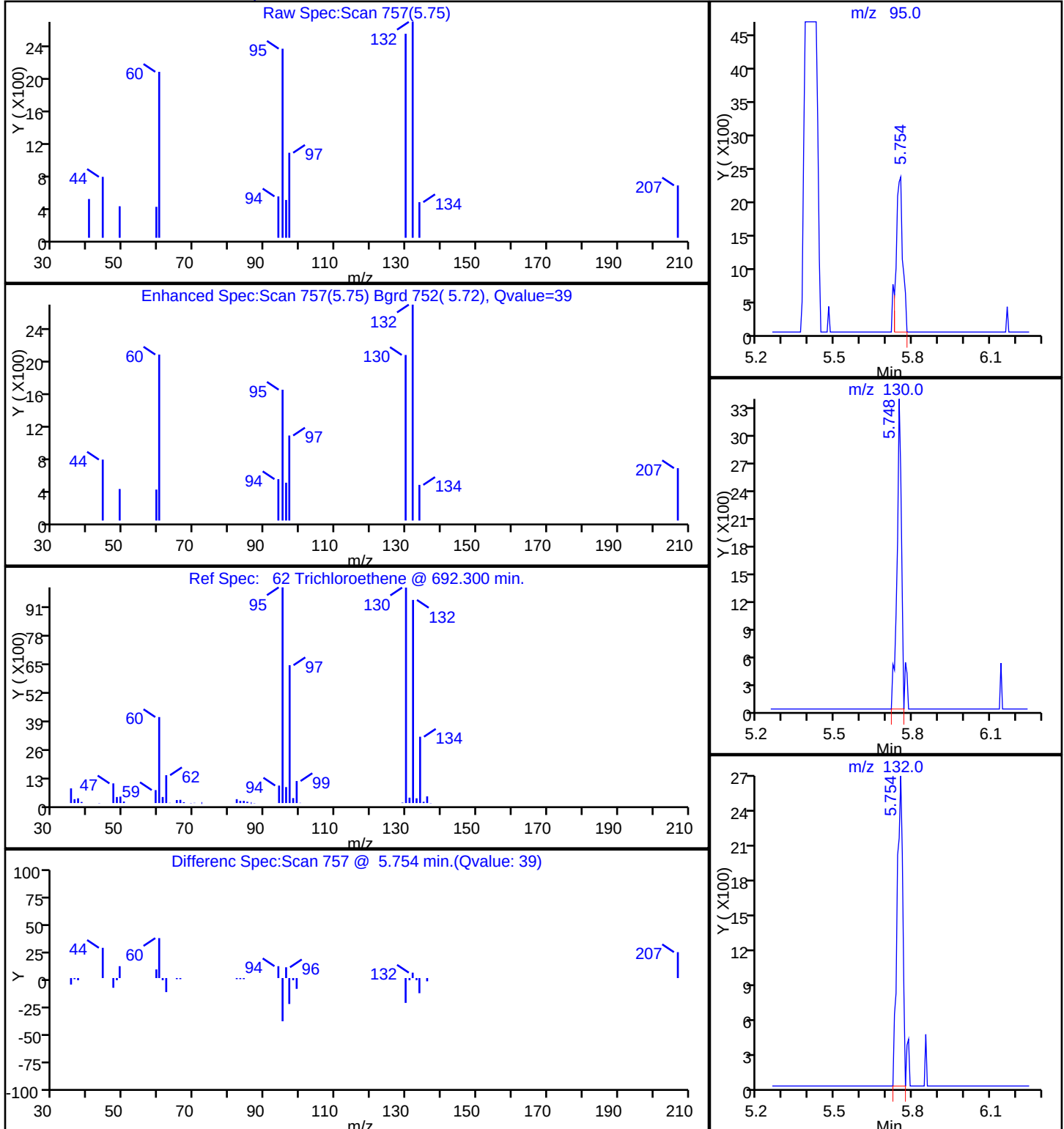
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4783.D
Injection Date: 16-Nov-2015 14:14:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-4 Lab Sample ID: 480-90492-4
Client ID: 4009-9
Operator ID: GTG ALS Bottle#: 72 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

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4783.D
Injection Date: 16-Nov-2015 14:14:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-4 Lab Sample ID: 480-90492-4
Client ID: 4009-9
Operator ID: GTG ALS Bottle#: 72 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

62 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-10</u>	Lab Sample ID: <u>480-90492-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4784.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 11:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 14:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	0.97	J	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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-10 Lab Sample ID: 480-90492-5
 Matrix: Water Lab File ID: S4784.D
 Analysis Method: 8260C Date Collected: 11/04/2015 11:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 14:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4784.D
 Lims ID: 480-90492-A-5 Lab Sample ID: 480-90492-5
 Client ID: 4009-10
 Sample Type: Client
 Inject. Date: 16-Nov-2015 14:37:30 ALS Bottle#: 73 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-5
 Misc. Info.: 480-0048379-013
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:21:31 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:22:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	181548	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	342597	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	96	297852	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	57	196203	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	159621	28.3	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	812664	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.644	0.006	83	218853	26.1	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.740	2.734	0.006	70	6402	1.70	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	1	2640	0.2902	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	55	29883	0.9708	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4784.D

Injection Date: 16-Nov-2015 14:37:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-5

Lab Sample ID: 480-90492-5

Worklist Smp#: 13

Client ID: 4009-10

Purge Vol: 5.000 mL

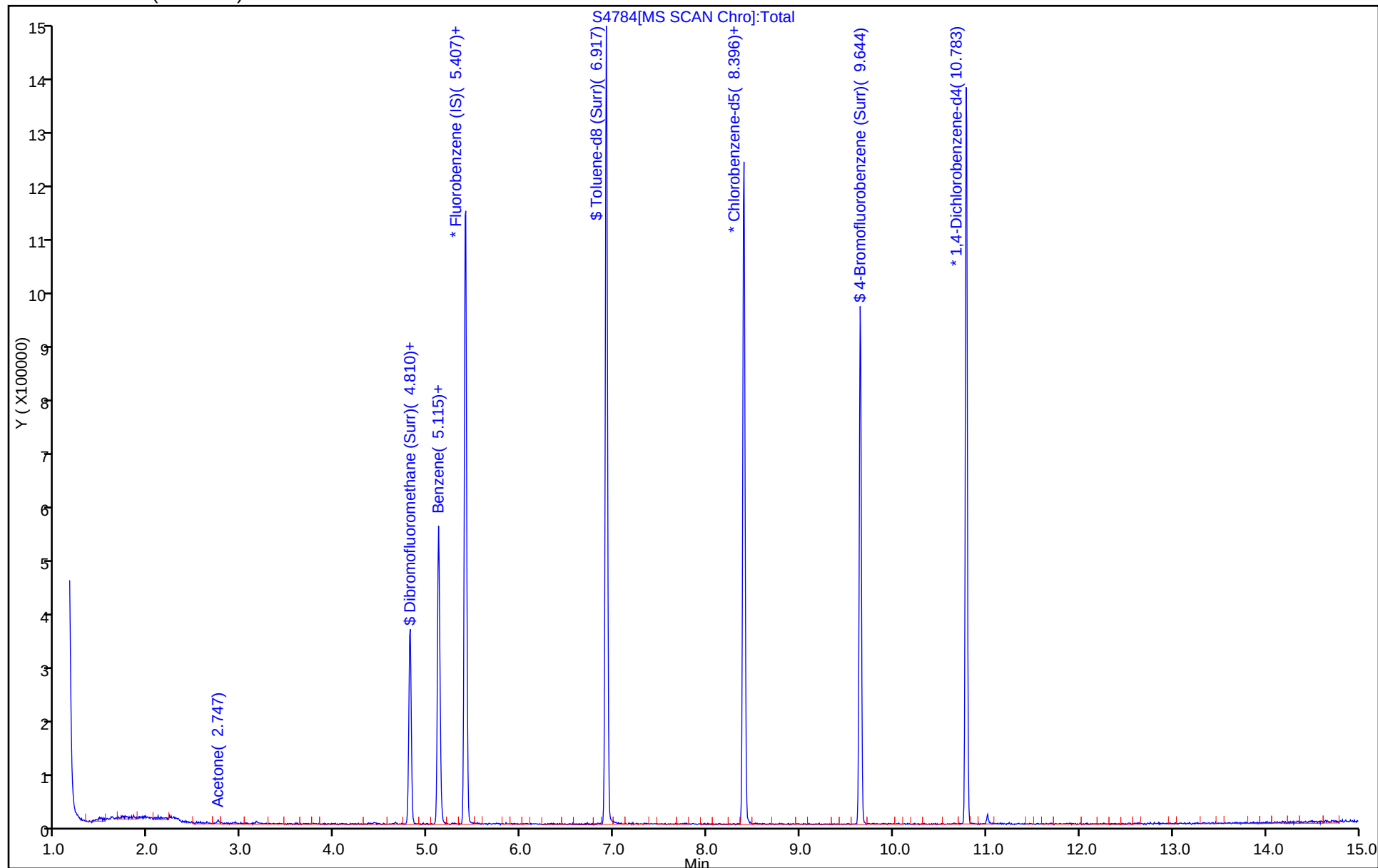
Dil. Factor: 1.0000

ALS Bottle#: 73

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4784.D

Injection Date: 16-Nov-2015 14:37:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-5

Lab Sample ID: 480-90492-5

Client ID: 4009-10

Operator ID: GTG

ALS Bottle#: 73

Worklist Smp#: 13

Purge Vol: 5.000 mL

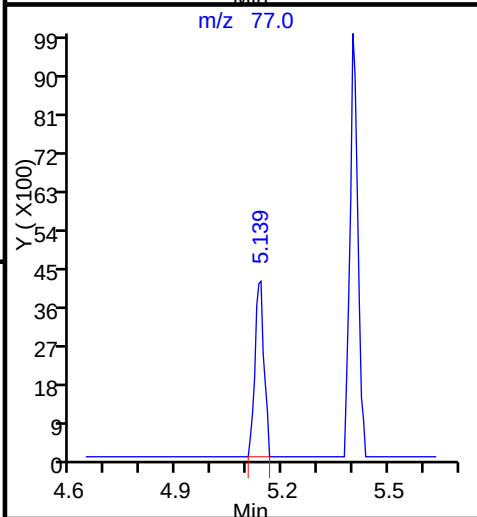
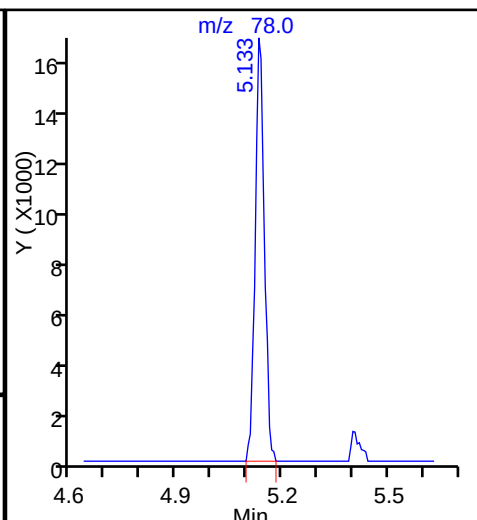
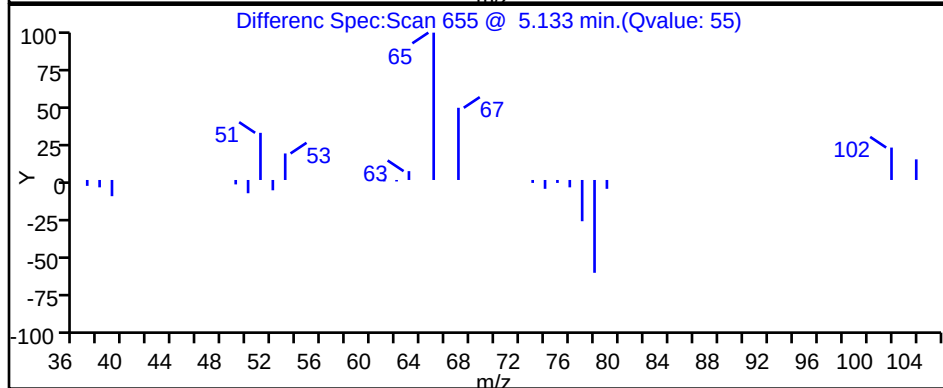
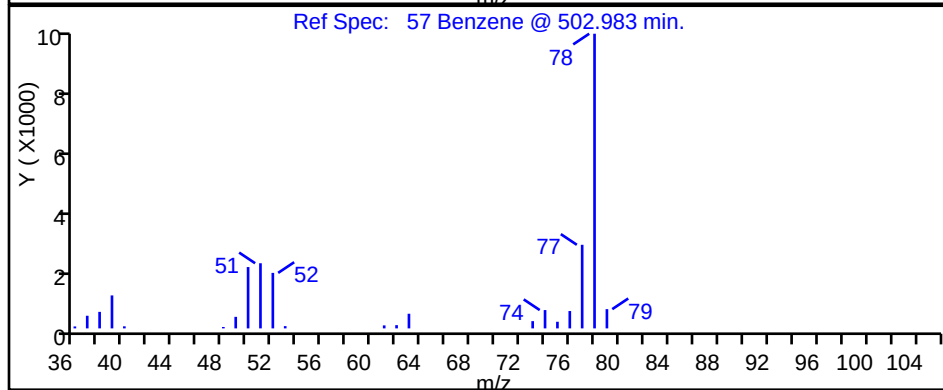
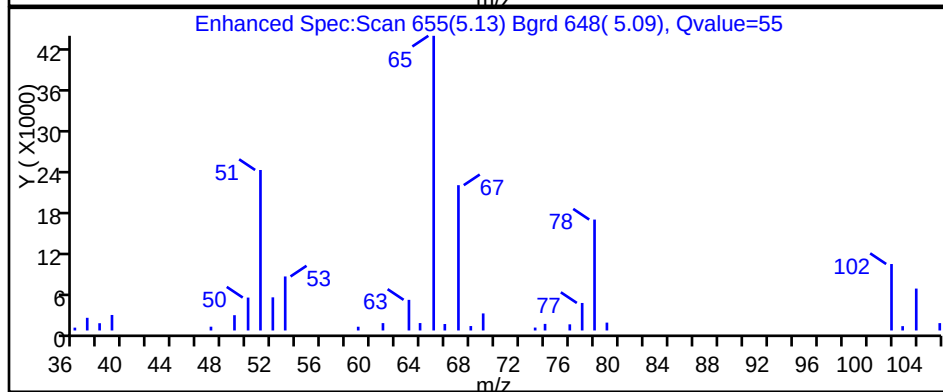
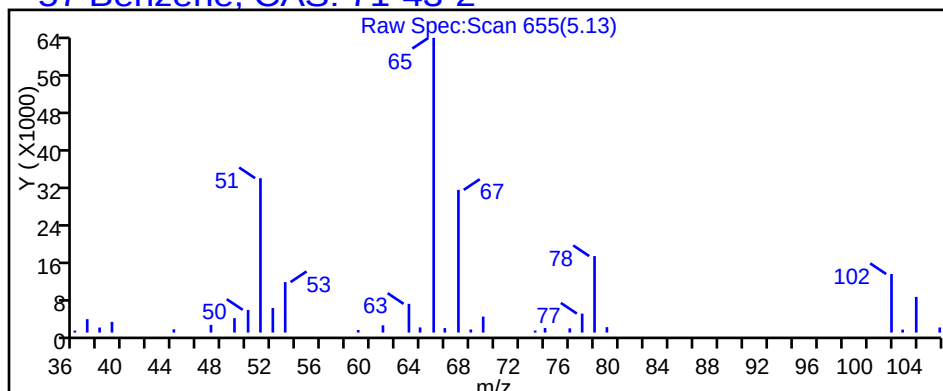
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-11</u>	Lab Sample ID: <u>480-90492-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4785.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 11:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 15:00</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	79		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	20		1.0	0.38
75-35-4	1,1-Dichloroethene	8.7		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	1.5		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	12		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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-11</u>	Lab Sample ID: <u>480-90492-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4785.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 11:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 15:00</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	19		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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D
 Lims ID: 480-90492-A-6 Lab Sample ID: 480-90492-6
 Client ID: 4009-11
 Sample Type: Client
 Inject. Date: 16-Nov-2015 15:00:30 ALS Bottle#: 74 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-6
 Misc. Info.: 480-0048379-014
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:23:27 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:23:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	180794	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	345831	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	307805	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	56	211378	28.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	156039	27.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	815429	26.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	215922	25.5	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.511	1.505	0.006	80	176197	19.2	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64	1.919	1.906	0.013	53	4260	1.45	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.661	2.655	0.006	76	59495	8.65	
23 Acetone	43		2.734				ND	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63	3.794	3.788	0.006	85	328924	19.5	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	95657	12.1	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.786	4.780	0.006	88	714711	78.9	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D

Injection Date: 16-Nov-2015 15:00:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-6

Lab Sample ID: 480-90492-6

Worklist Smp#: 14

Client ID: 4009-11

Purge Vol: 5.000 mL

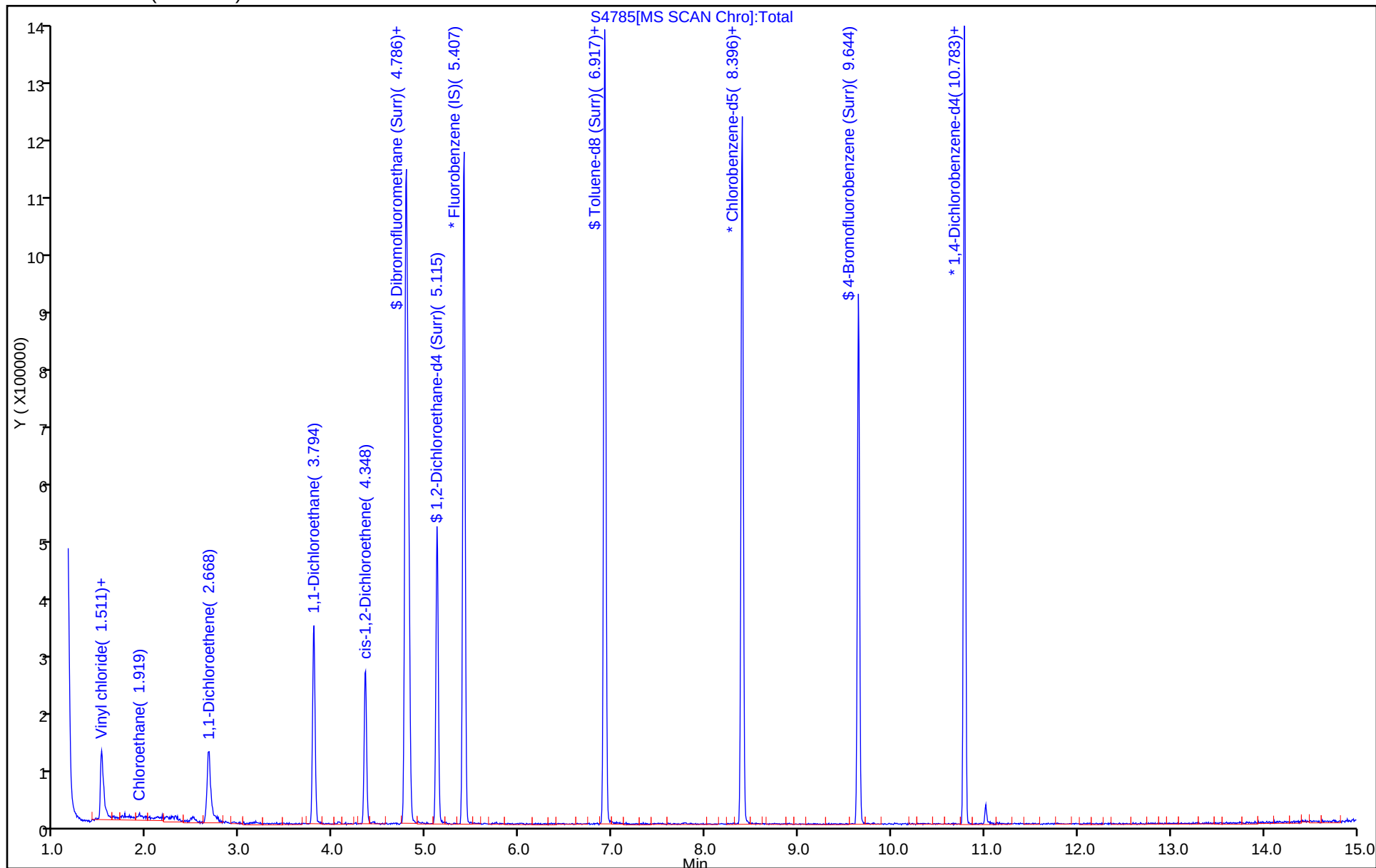
Dil. Factor: 1.0000

ALS Bottle#: 74

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D

Injection Date: 16-Nov-2015 15:00:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-6

Lab Sample ID: 480-90492-6

Client ID: 4009-11

Operator ID: GTG

ALS Bottle#: 74

Worklist Smp#: 14

Purge Vol: 5.000 mL

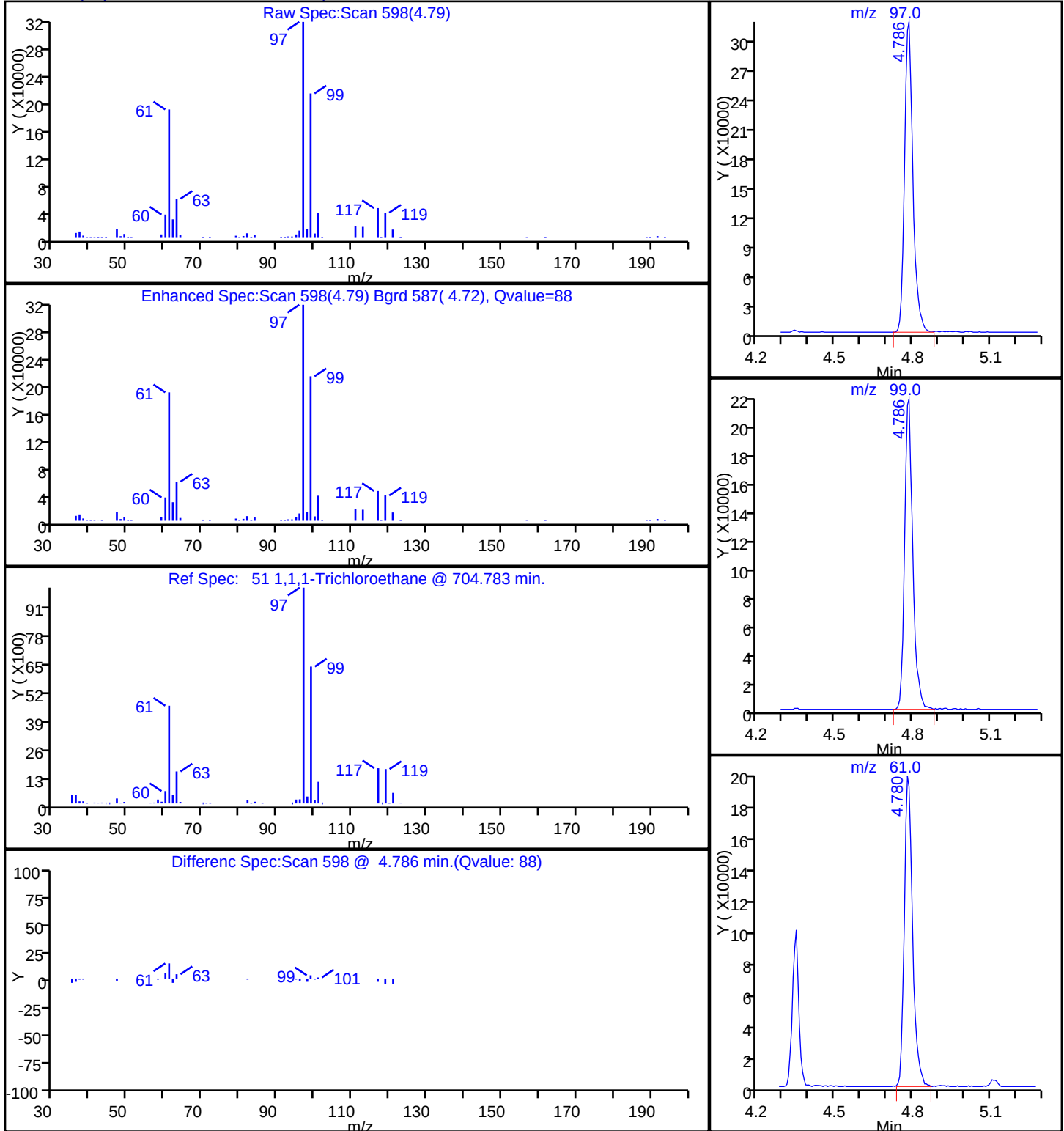
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D

Injection Date: 16-Nov-2015 15:00:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-6

Lab Sample ID: 480-90492-6

Client ID: 4009-11

Operator ID: GTG

ALS Bottle#: 74

Worklist Smp#: 14

Purge Vol: 5.000 mL

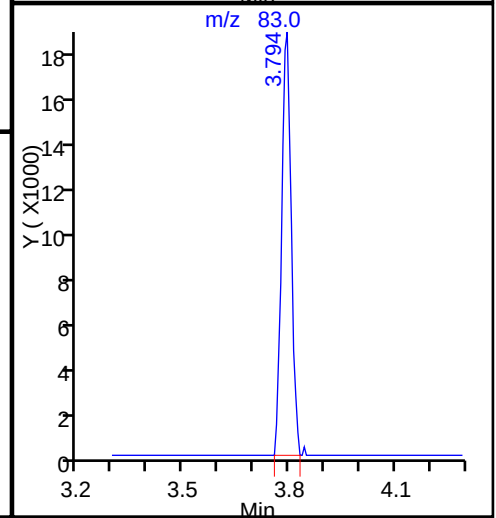
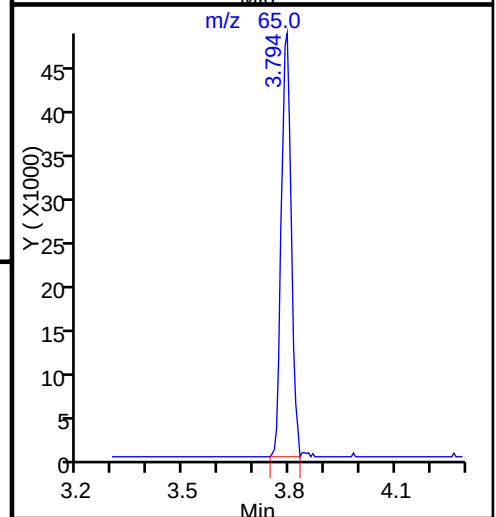
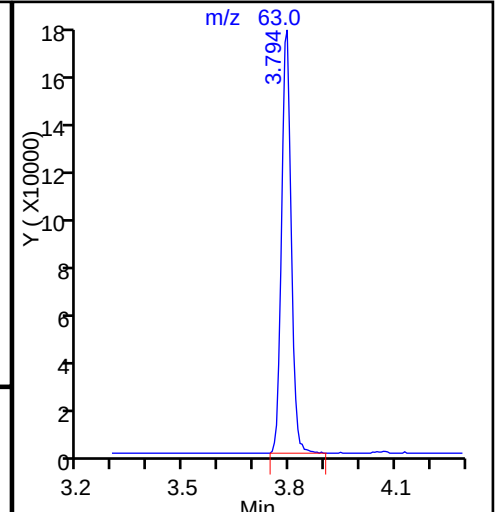
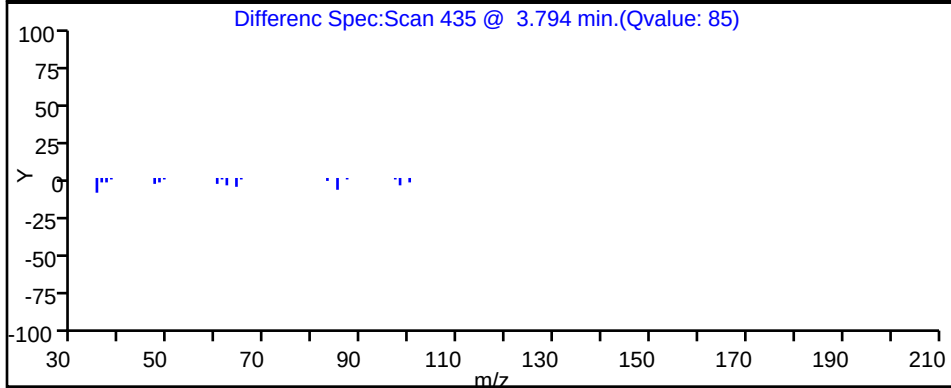
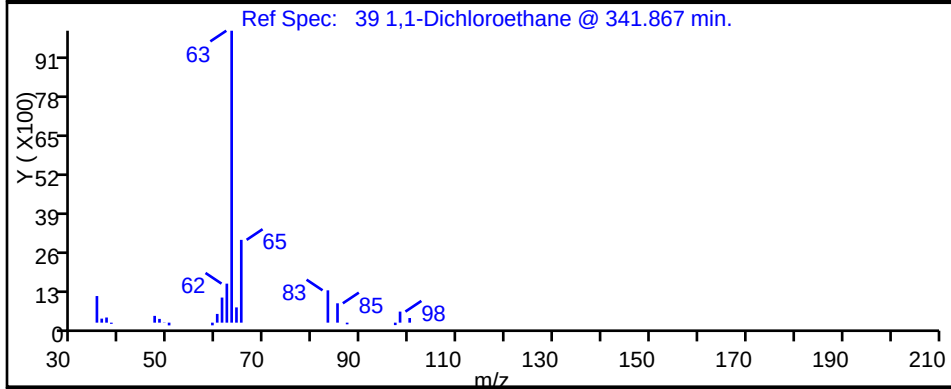
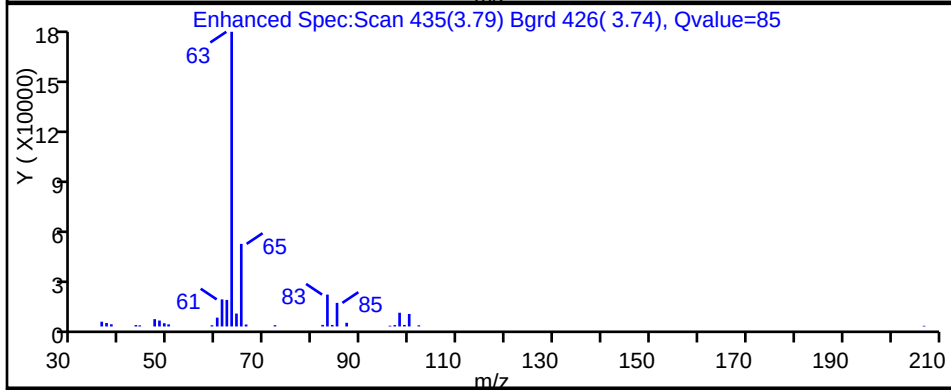
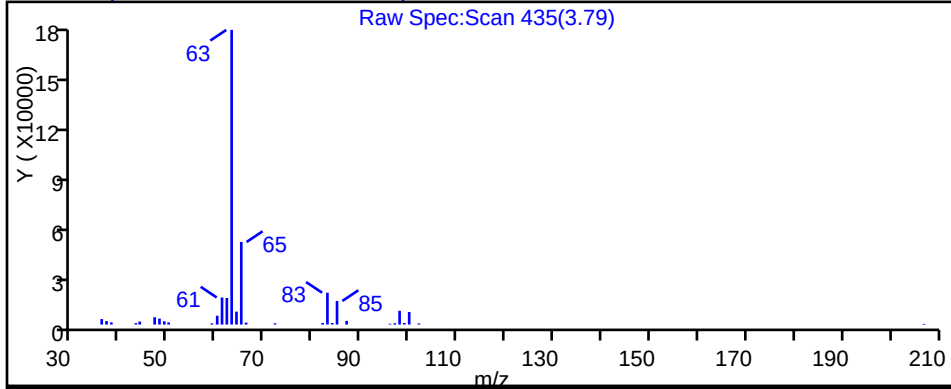
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D

Injection Date: 16-Nov-2015 15:00:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-6

Lab Sample ID: 480-90492-6

Client ID: 4009-11

Operator ID: GTG

ALS Bottle#: 74

Worklist Smp#: 14

Purge Vol: 5.000 mL

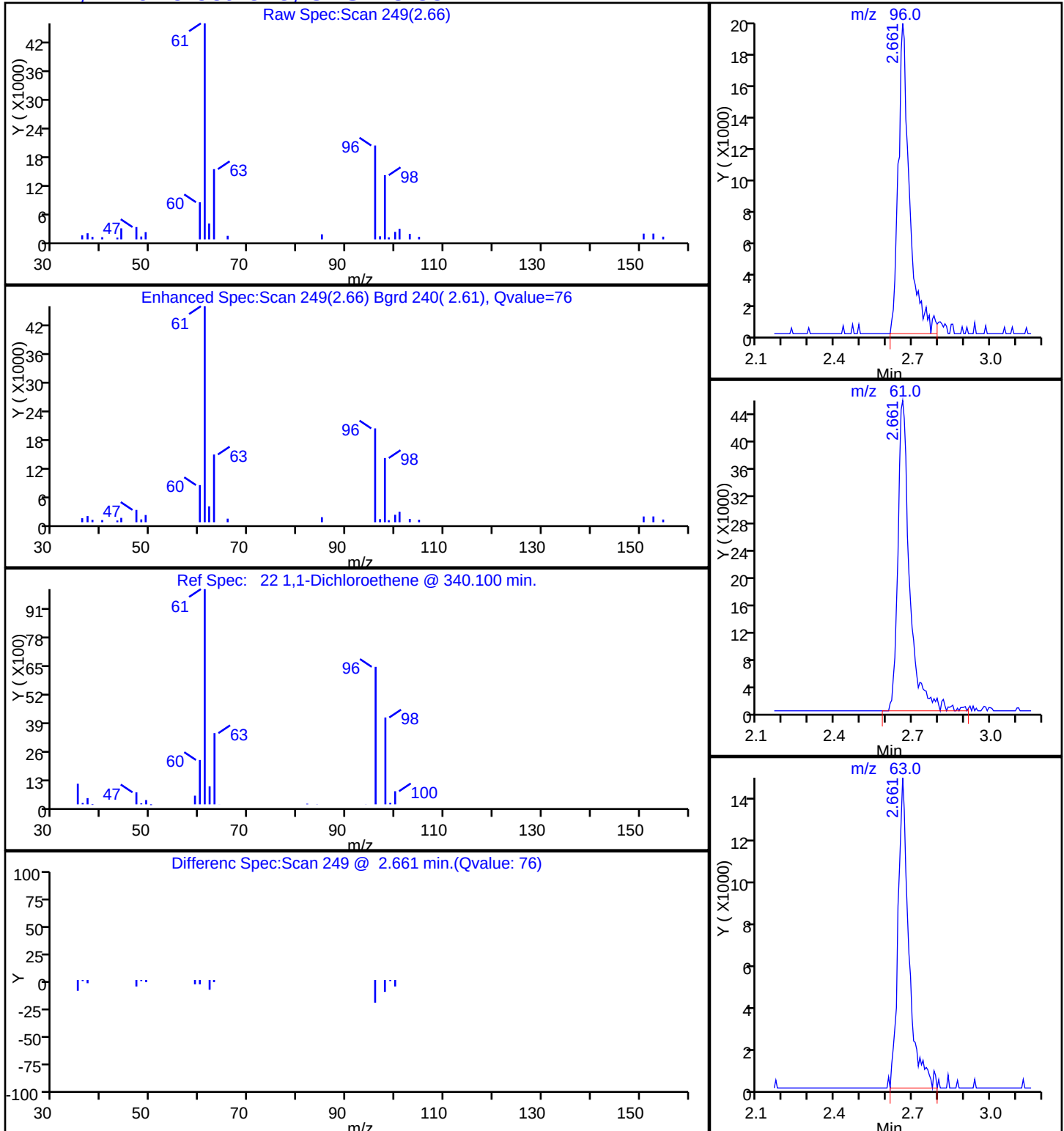
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D

Injection Date: 16-Nov-2015 15:00:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-6

Lab Sample ID: 480-90492-6

Client ID: 4009-11

Operator ID: GTG

ALS Bottle#: 74

Worklist Smp#: 14

Purge Vol: 5.000 mL

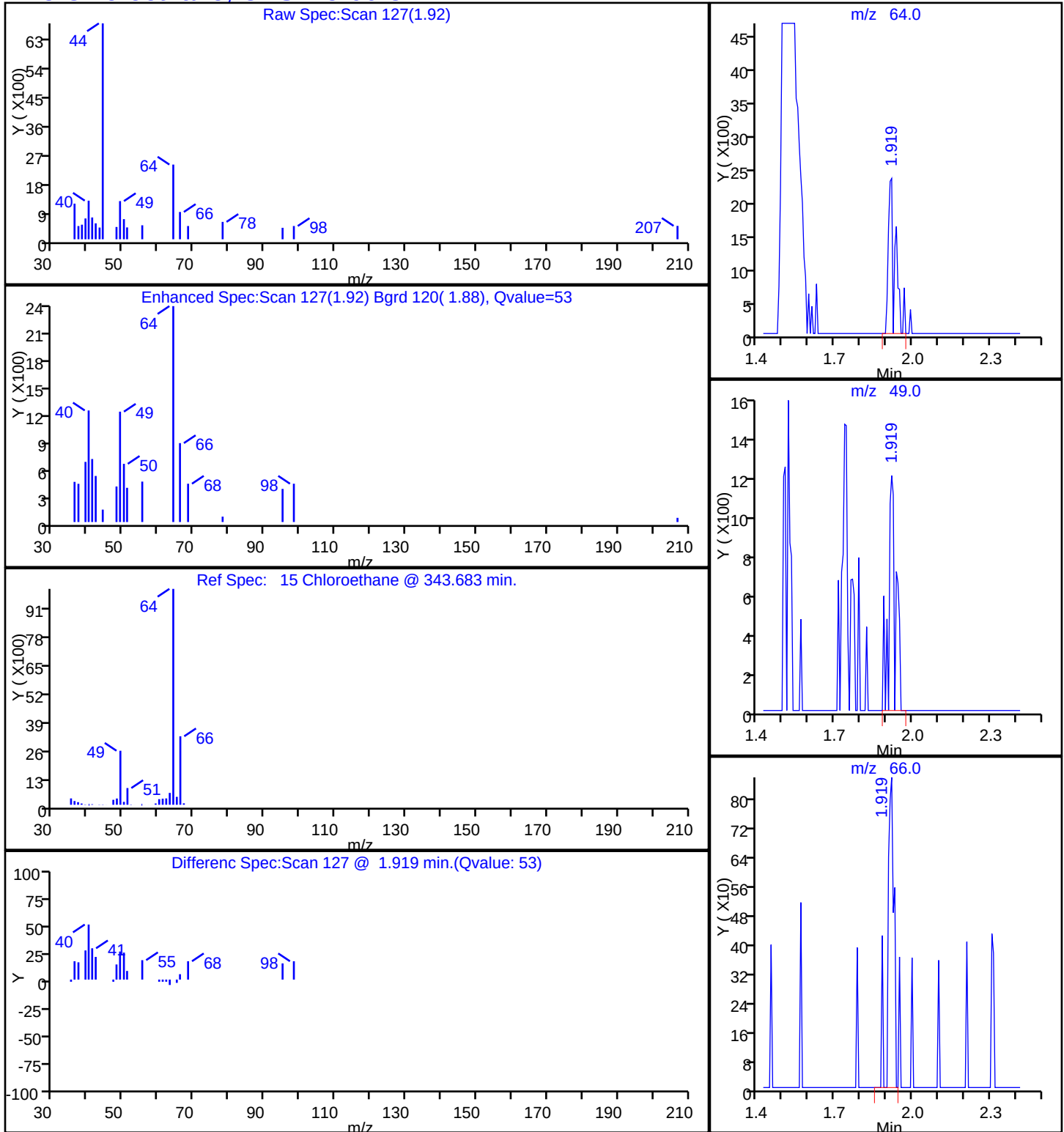
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

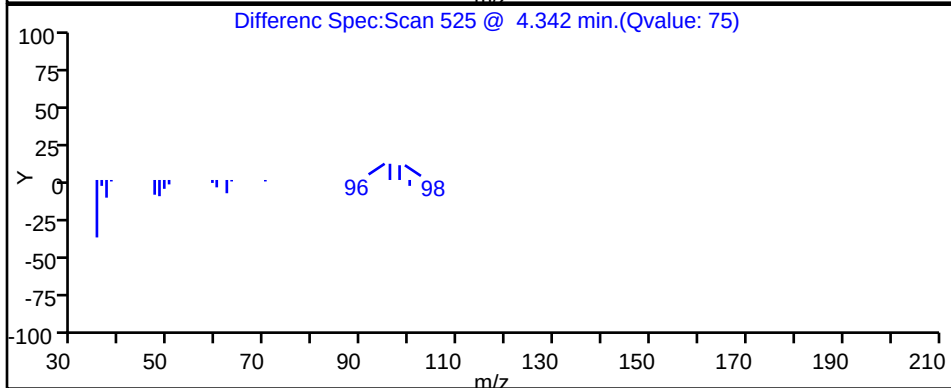
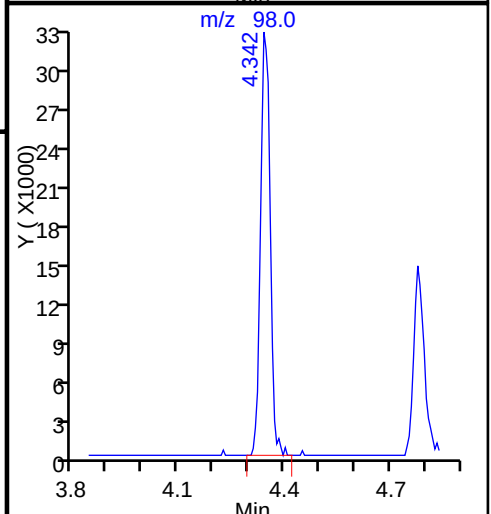
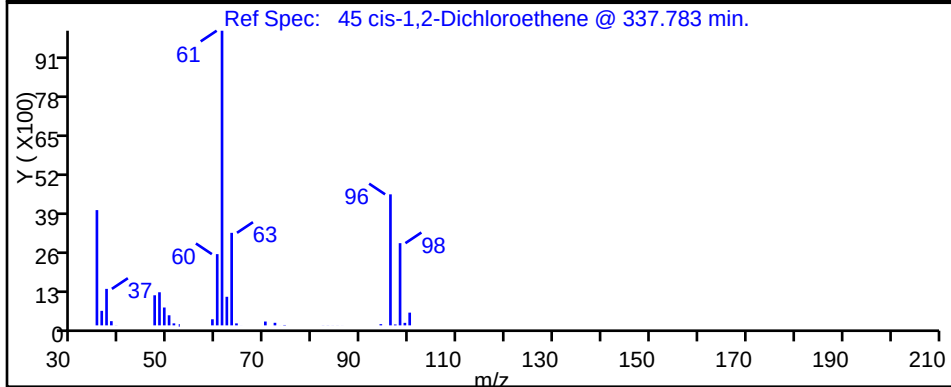
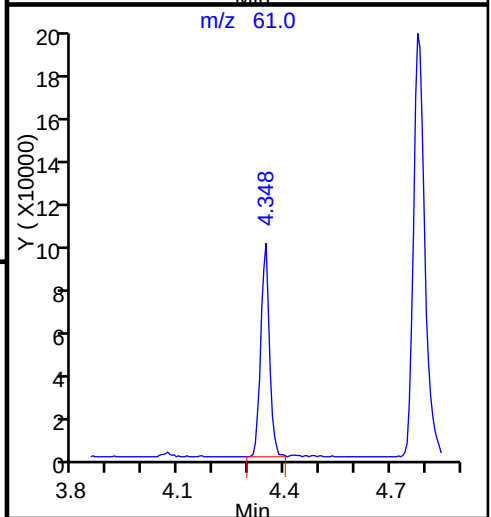
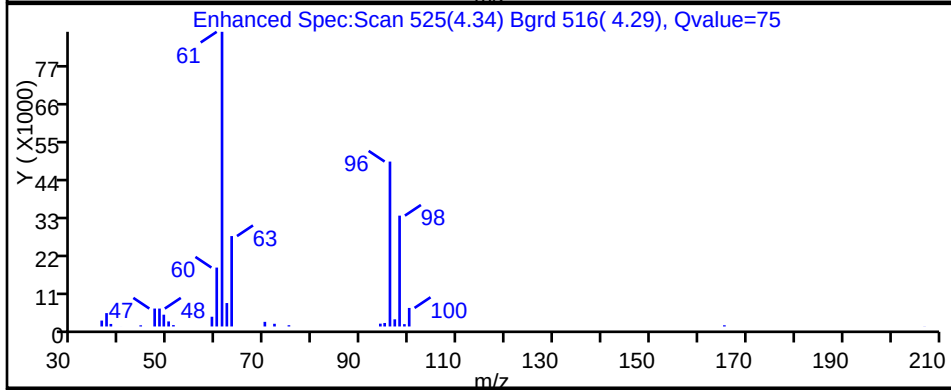
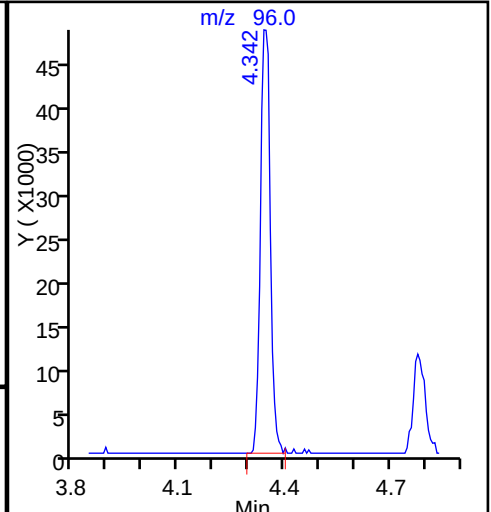
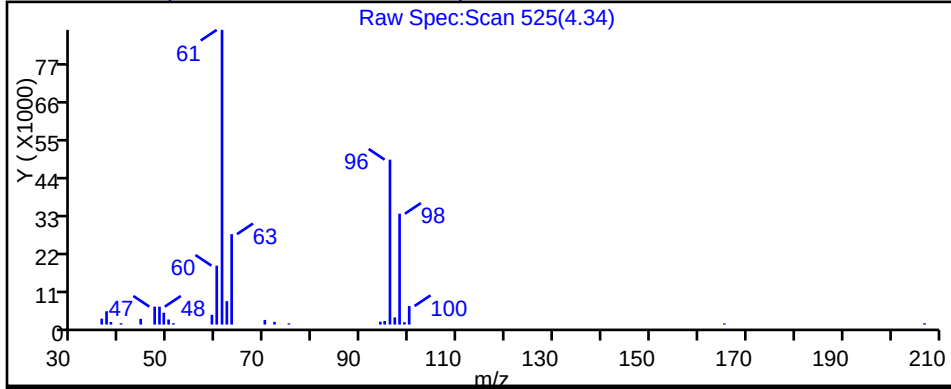
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4785.D
Injection Date: 16-Nov-2015 15:00:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-6 Lab Sample ID: 480-90492-6
Client ID: 4009-11
Operator ID: GTG ALS Bottle#: 74 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\20151116-48379.b\S4785.D

Injection Date: 16-Nov-2015 15:00:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-6

Lab Sample ID: 480-90492-6

Client ID: 4009-11

Operator ID: GTG

ALS Bottle#: 74

Worklist Smp#: 14

Purge Vol: 5.000 mL

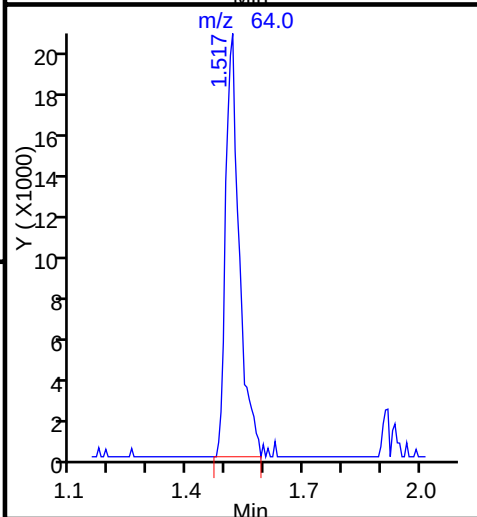
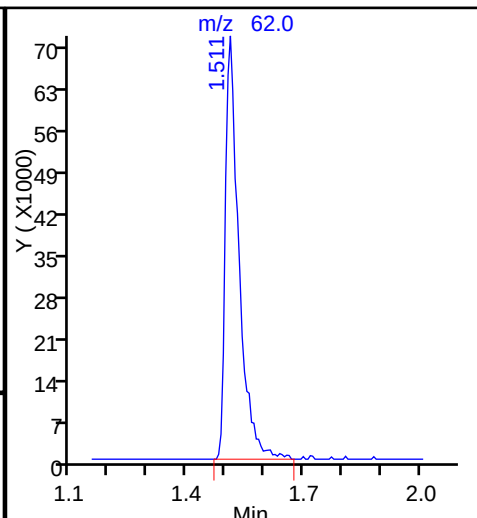
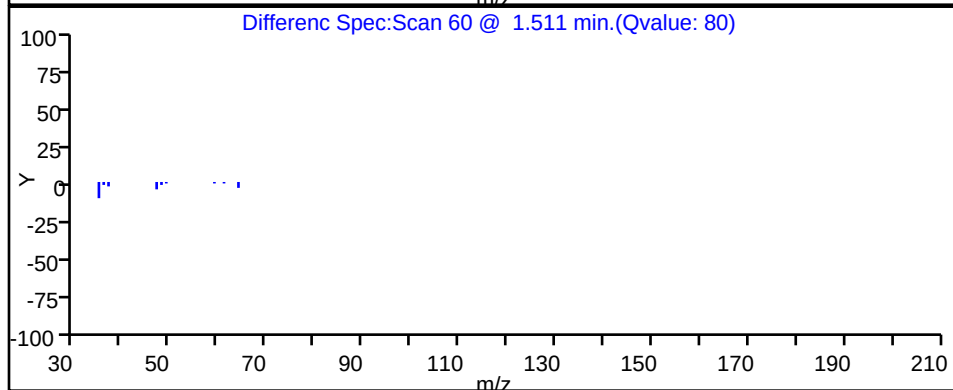
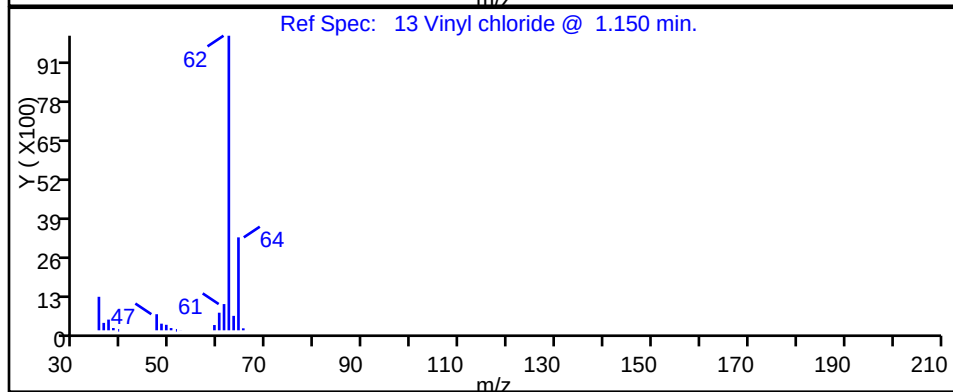
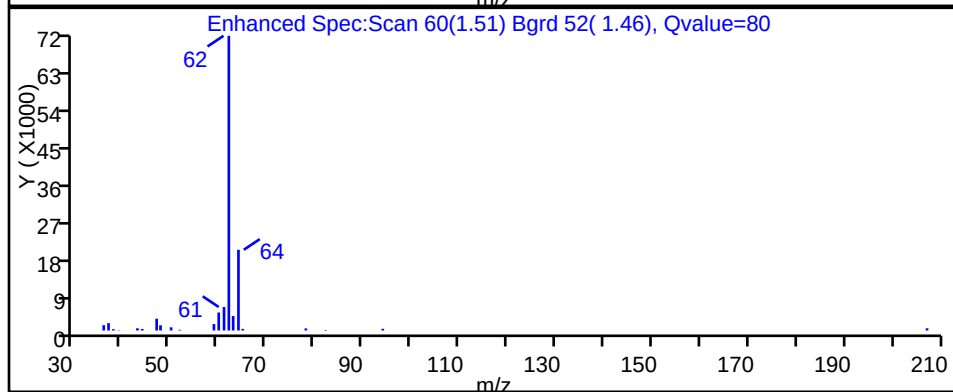
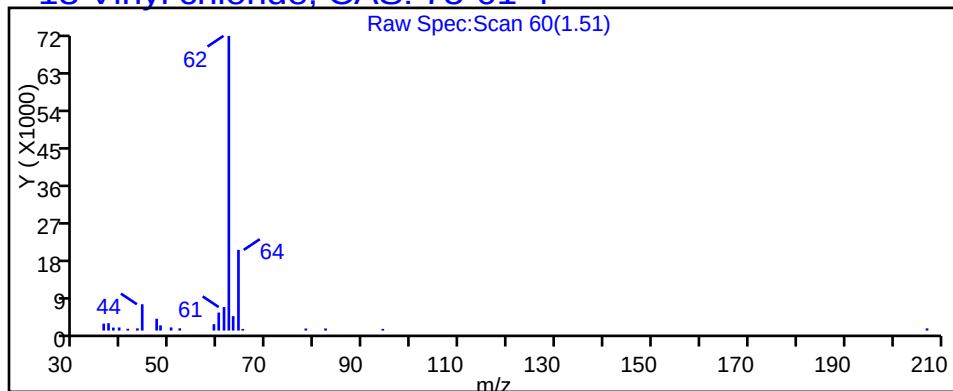
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-12 Lab Sample ID: 480-90492-7

Matrix: Water Lab File ID: S4786.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:20

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 15:22

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	67		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	29		1.0	0.38
75-35-4	1,1-Dichloroethene	8.5		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	2.4		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	0.83	J	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	18		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-12 Lab Sample ID: 480-90492-7
 Matrix: Water Lab File ID: S4786.D
 Analysis Method: 8260C Date Collected: 11/04/2015 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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	11		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	41		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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D
 Lims ID: 480-90492-A-7 Lab Sample ID: 480-90492-7
 Client ID: 4009-12
 Sample Type: Client
 Inject. Date: 16-Nov-2015 15:22:30 ALS Bottle#: 75 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-7
 Misc. Info.: 480-0048379-015
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:25:09 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:25:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	180711	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	348985	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	306484	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.805	4.810	-0.005	71	216769	28.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	160377	28.6	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	814409	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	224468	26.3	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.505	1.505	0.000	82	375286	40.9	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64	1.907	1.906	0.001	22	1574	0.8311	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.656	2.655	0.001	79	58398	8.50	
23 Acetone	43	2.741	2.734	0.007	68	5552	1.48	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	480499	28.5	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	73	142572	18.1	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	88	602780	66.6	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	79	74635	2.44	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.748	5.748	0.000	89	83214	11.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.978	6.978	-0.006	55	4121	0.2196	M
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Worklist Smp#: 15

Client ID: 4009-12

Purge Vol: 5.000 mL

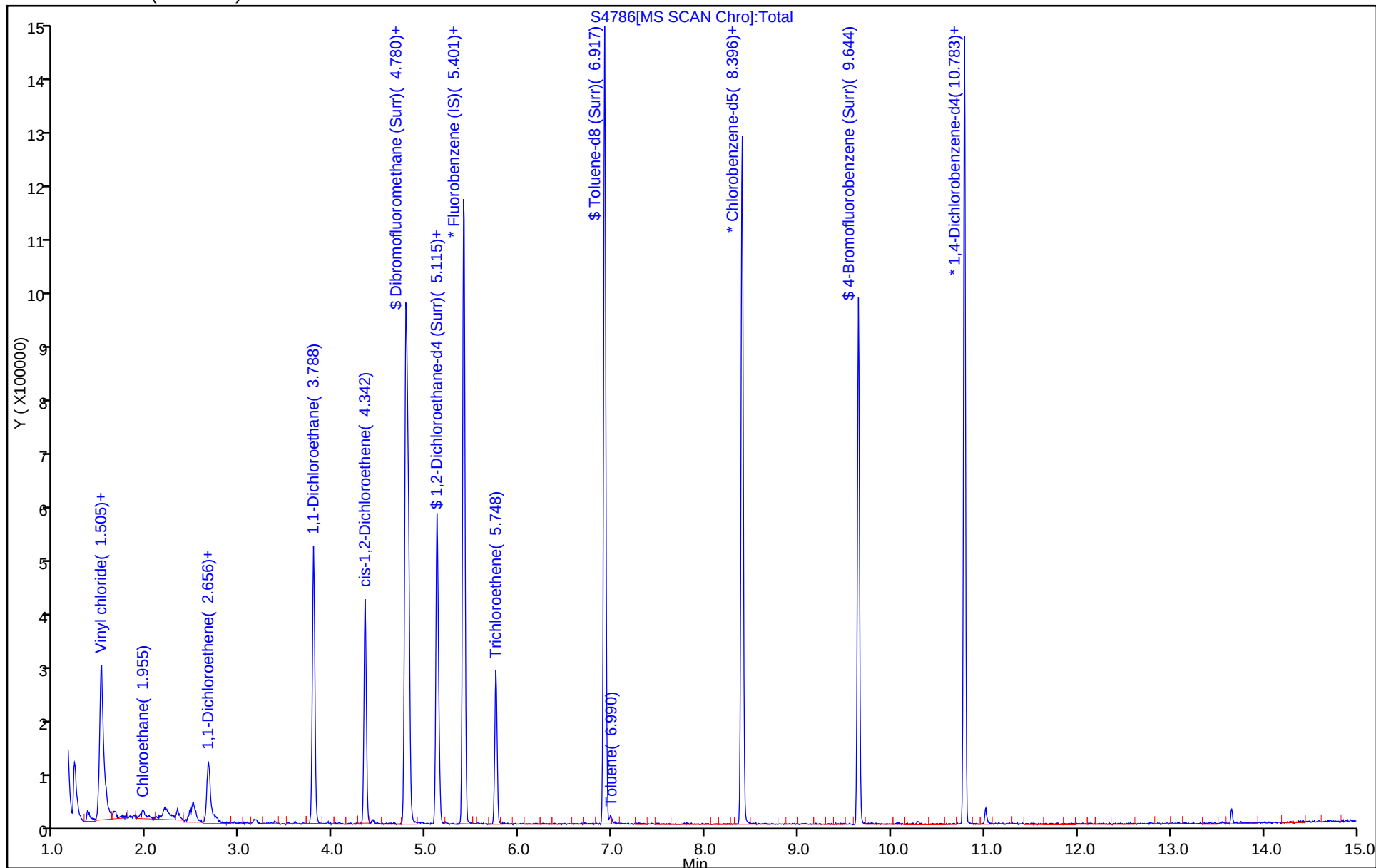
Dil. Factor: 1.0000

ALS Bottle#: 75

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

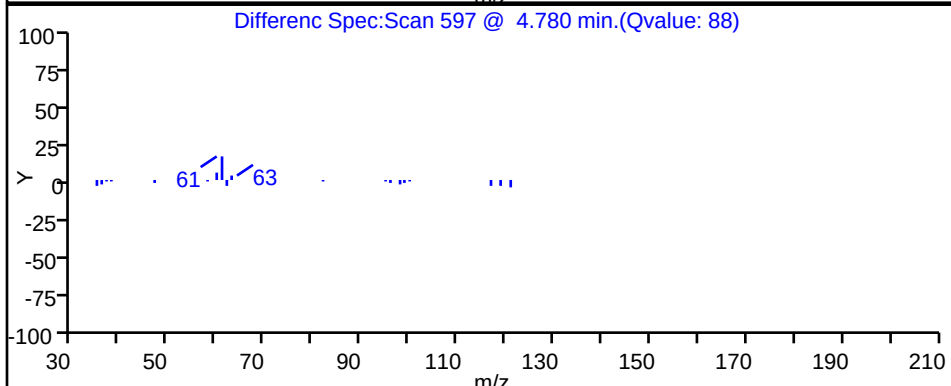
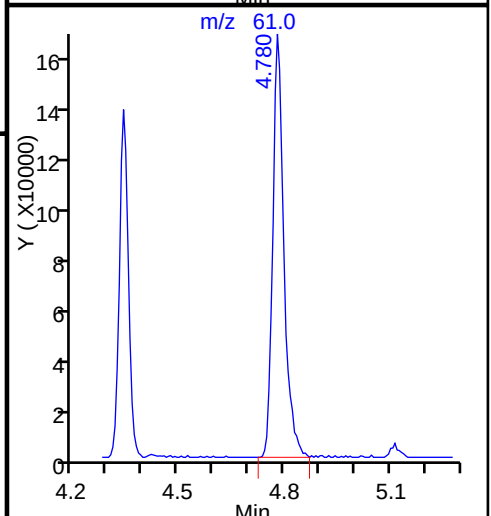
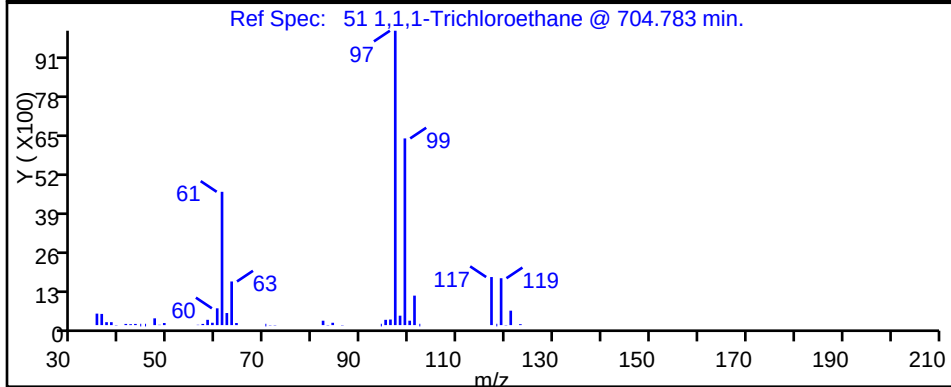
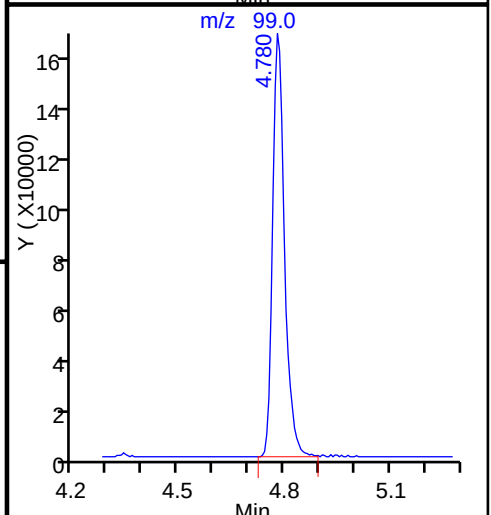
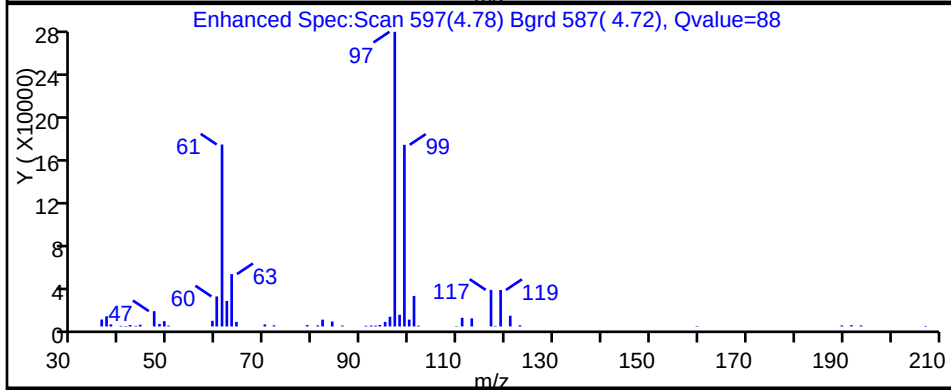
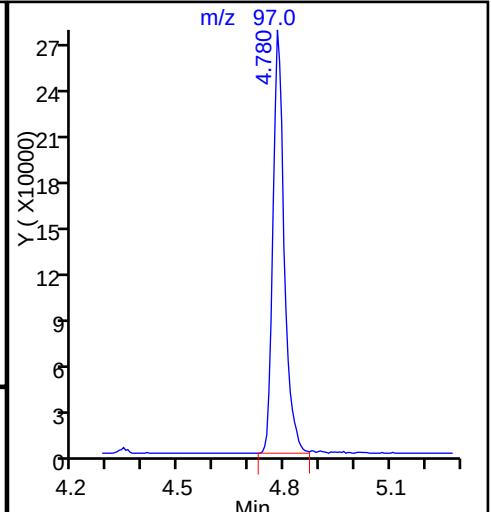
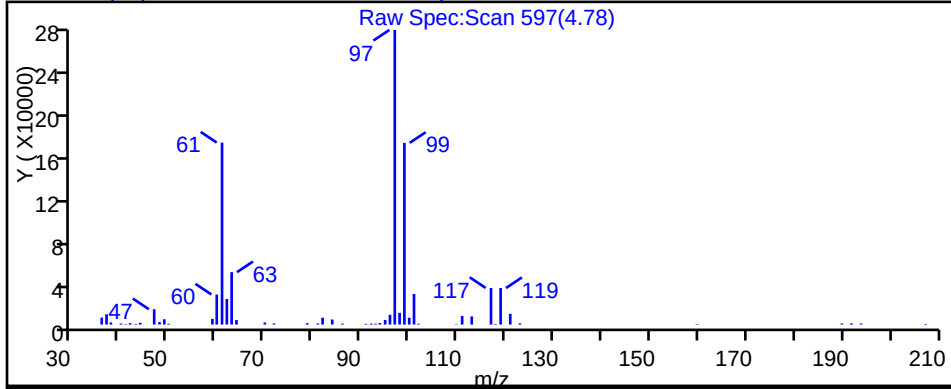
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

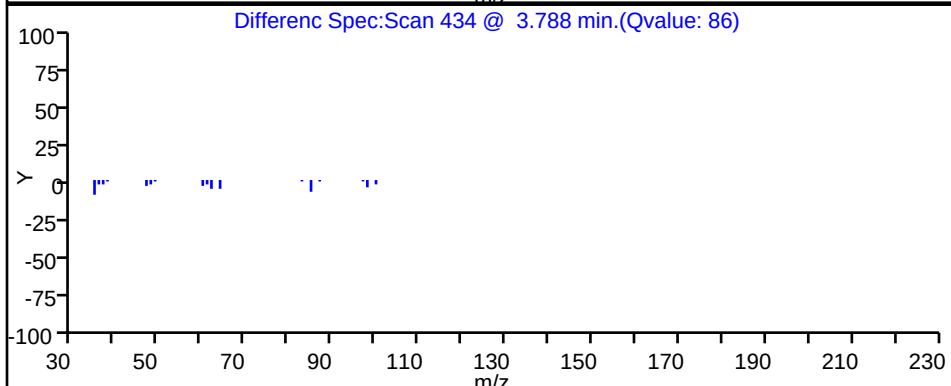
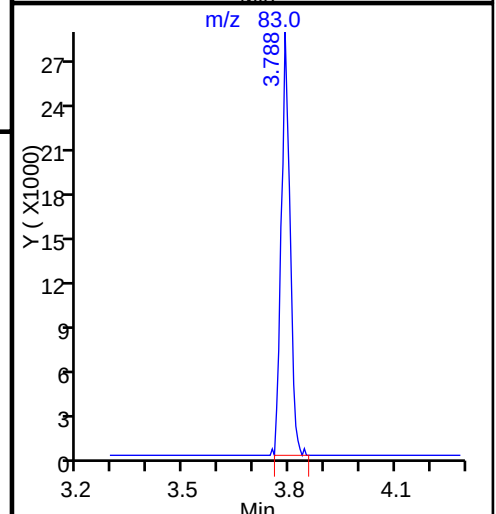
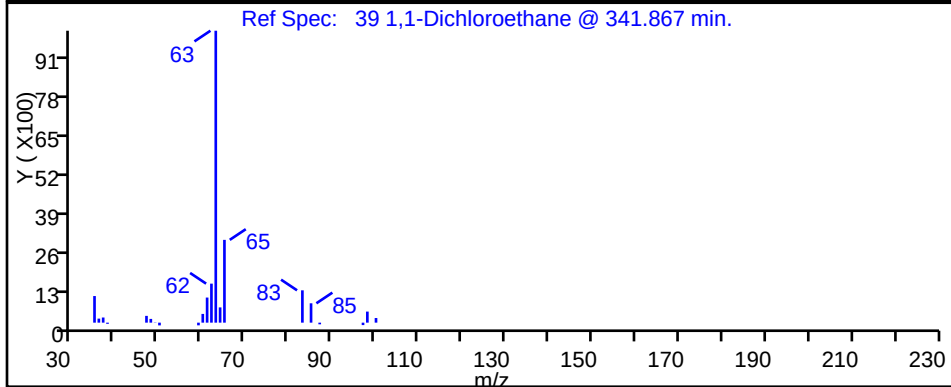
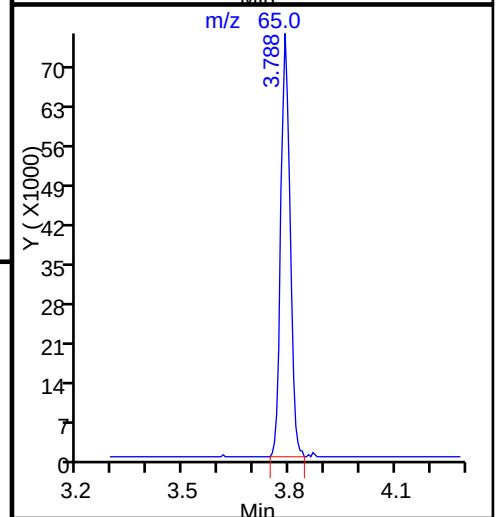
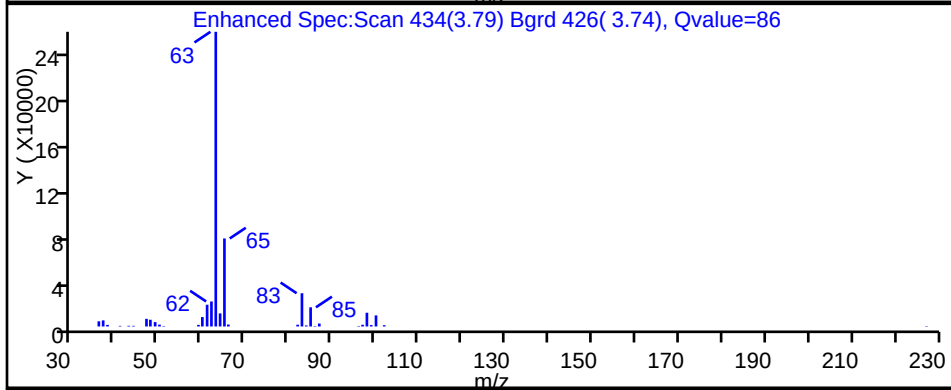
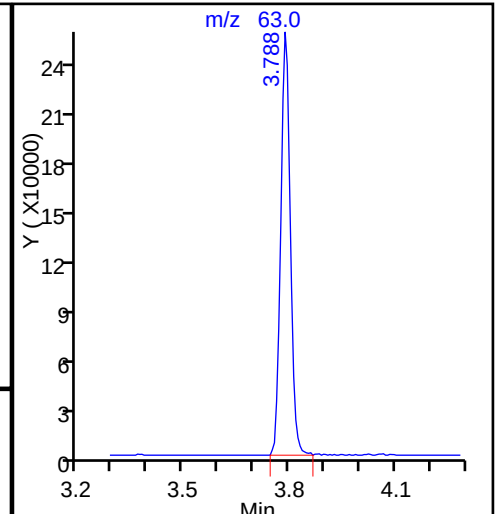
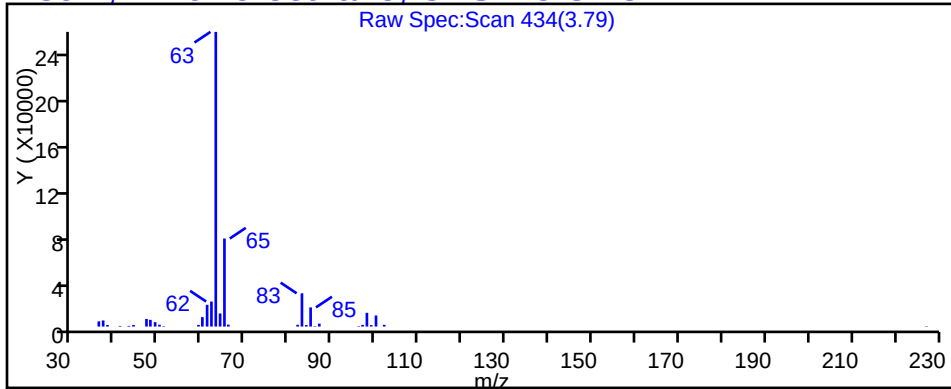
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

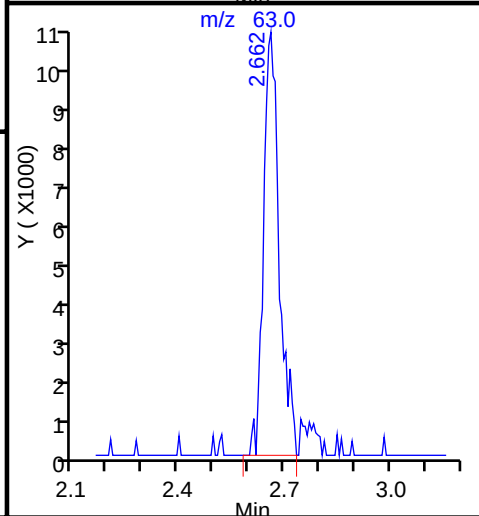
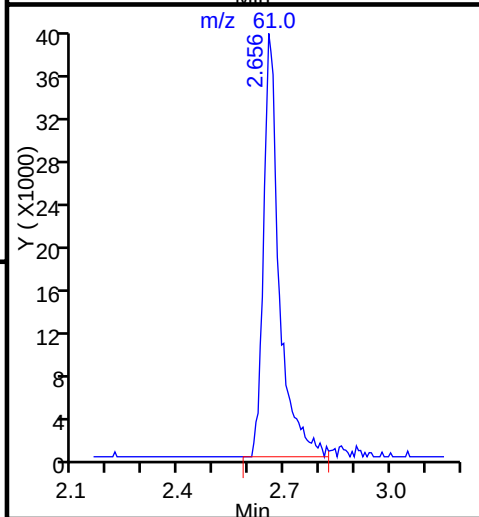
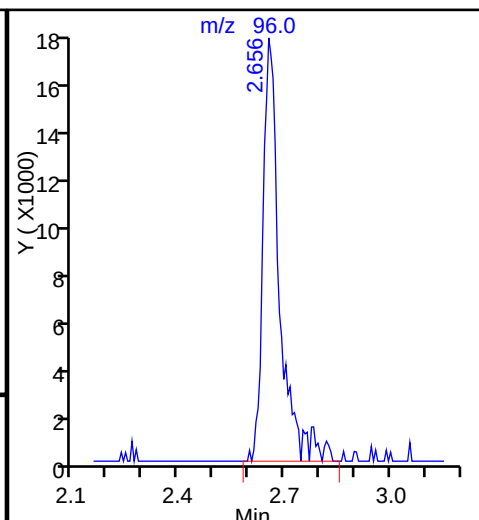
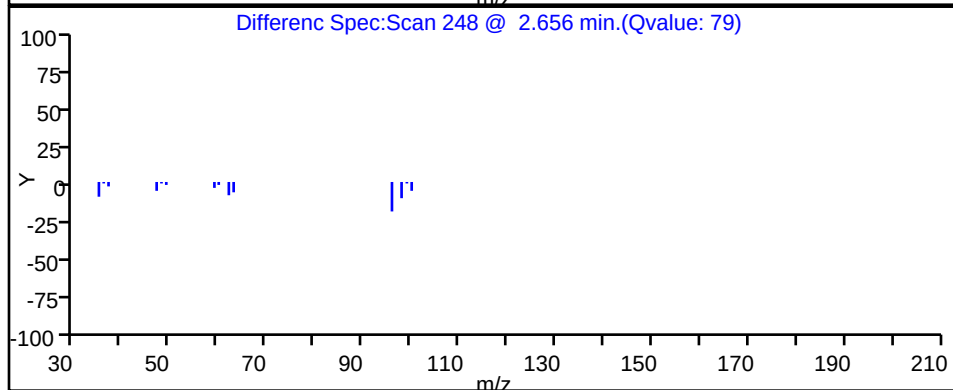
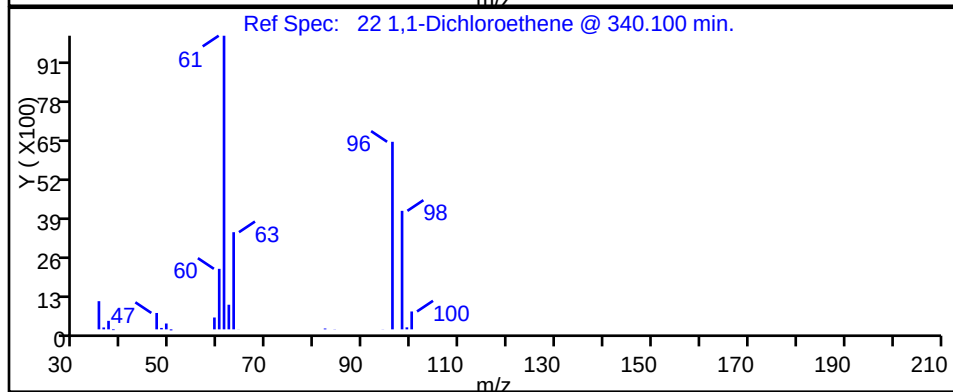
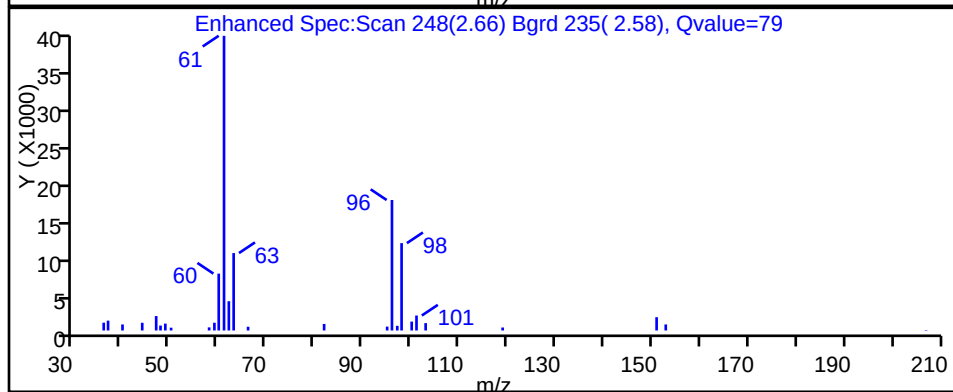
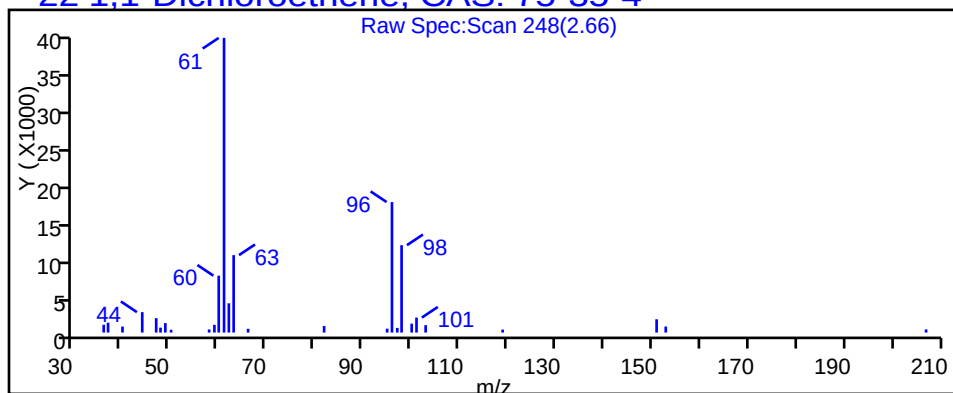
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

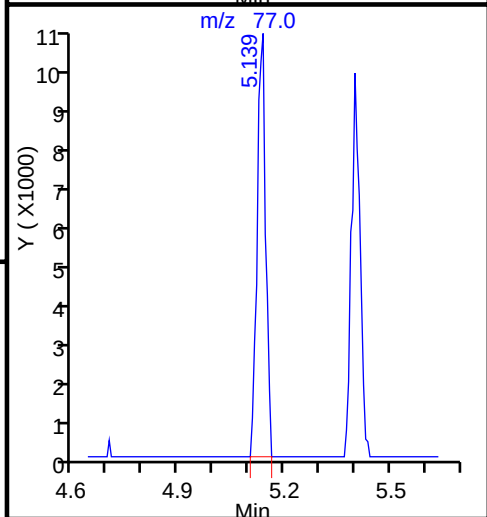
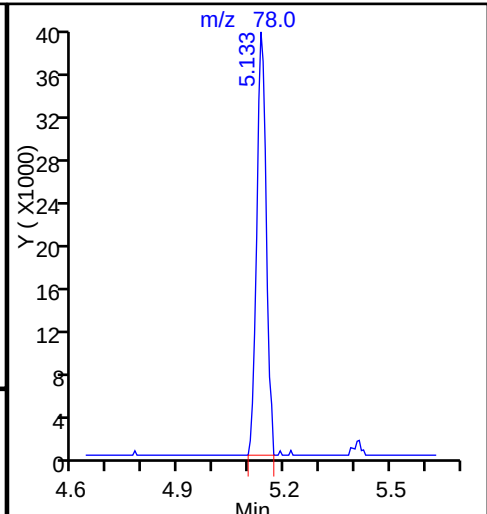
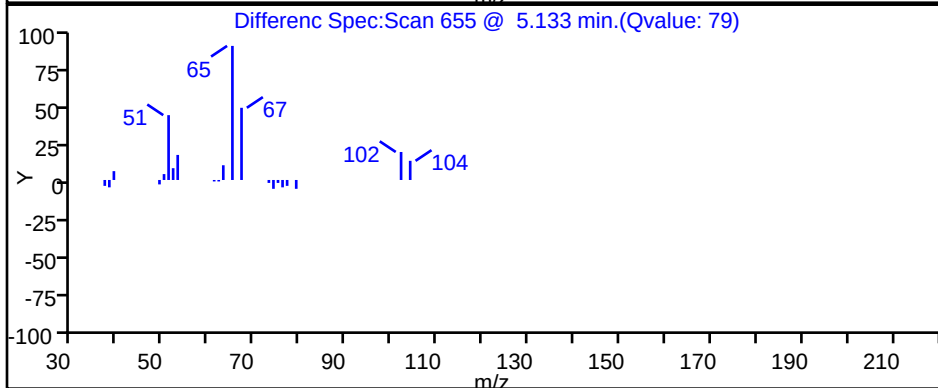
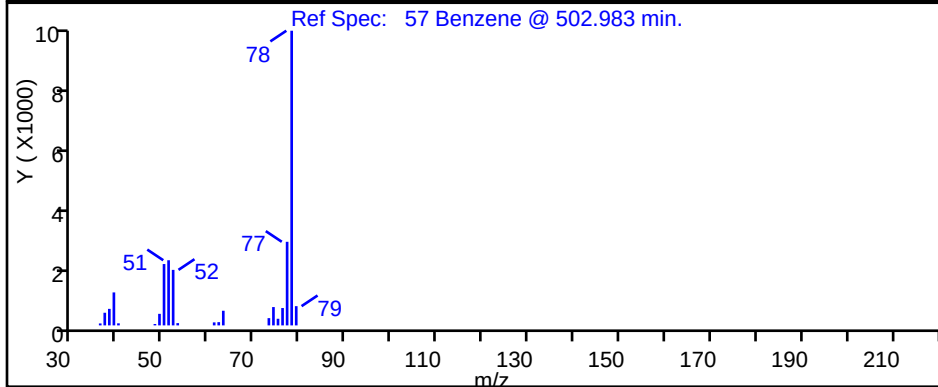
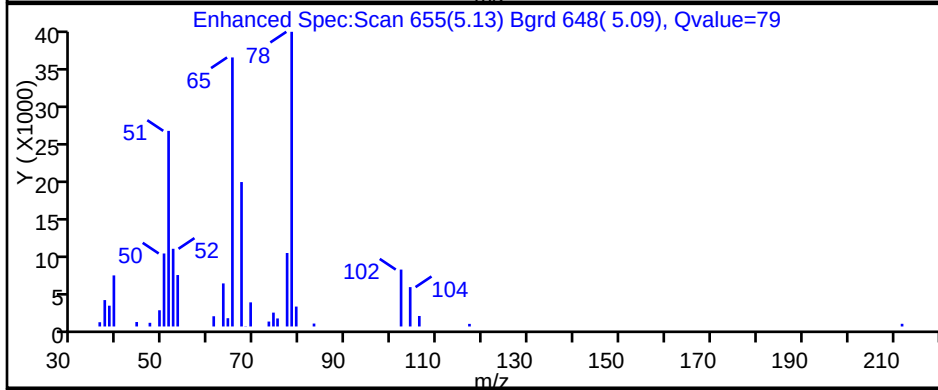
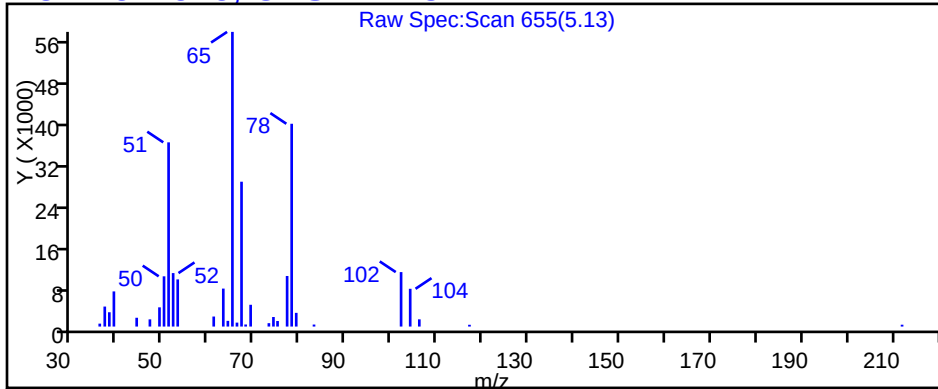
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

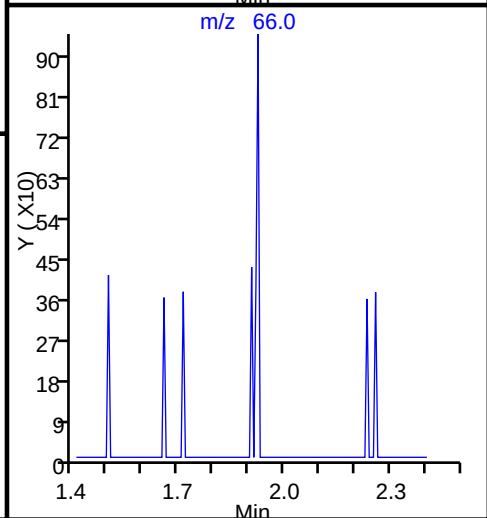
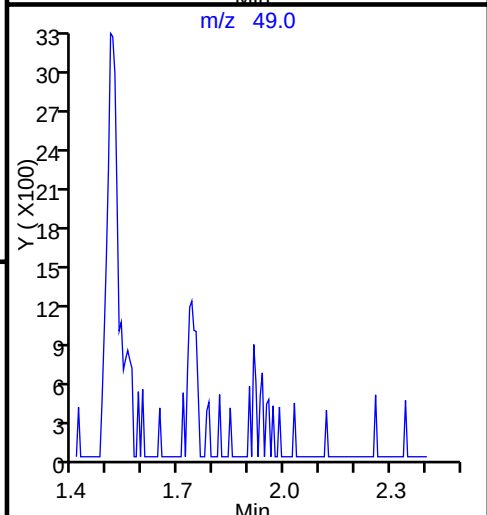
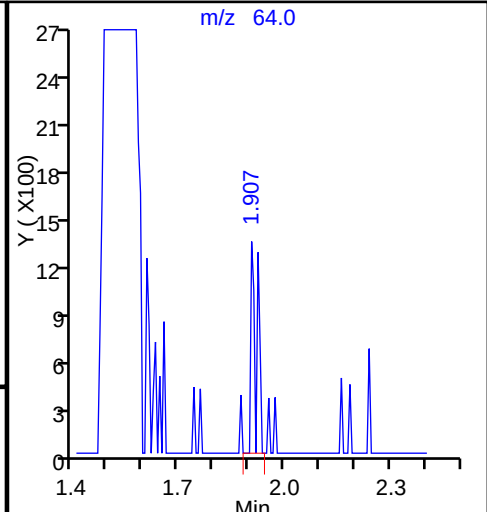
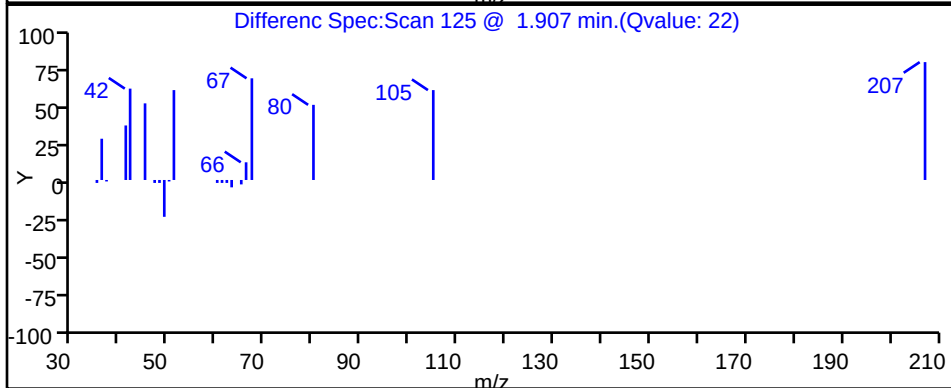
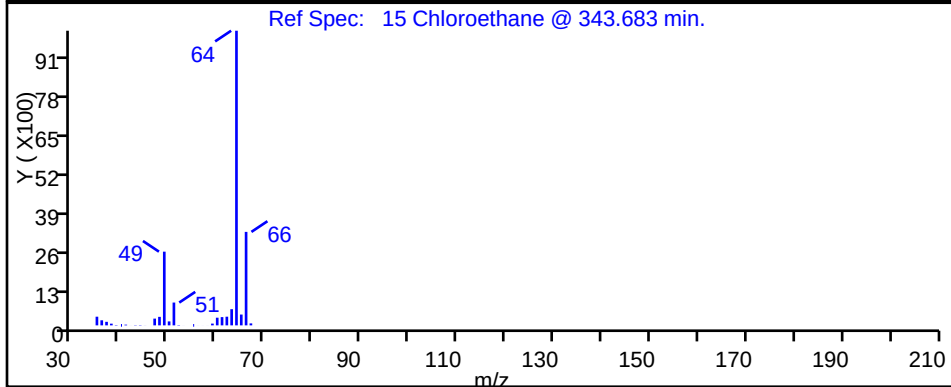
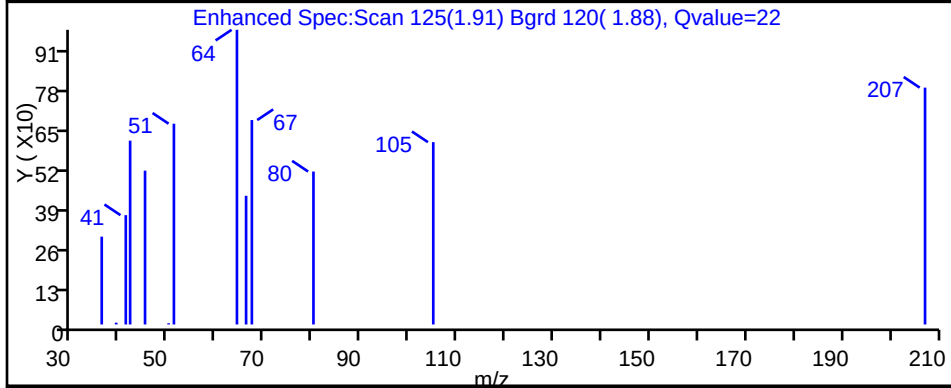
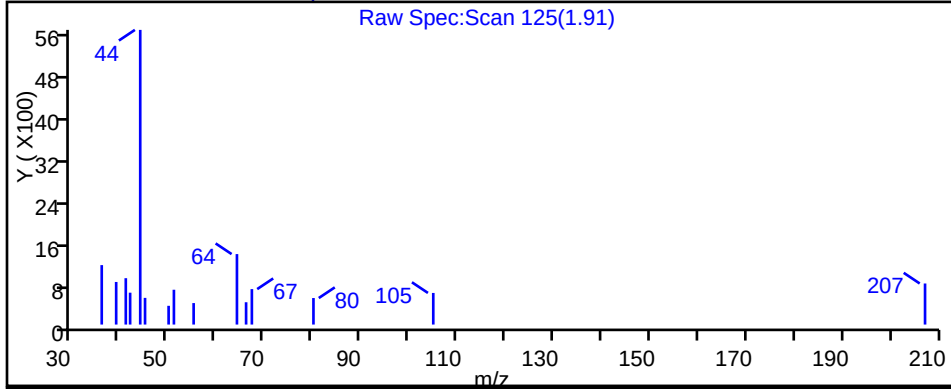
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

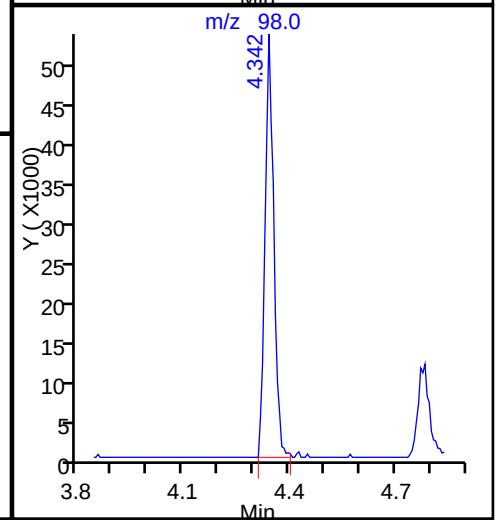
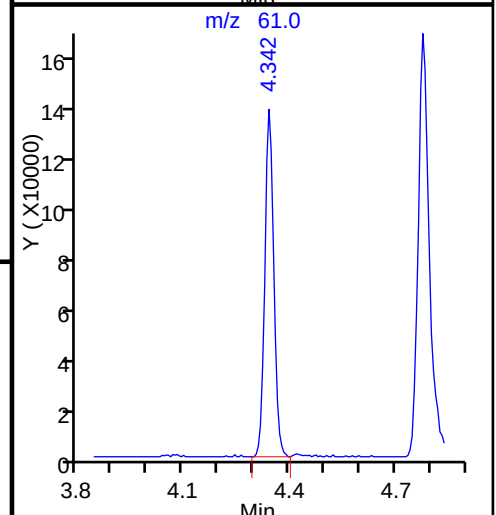
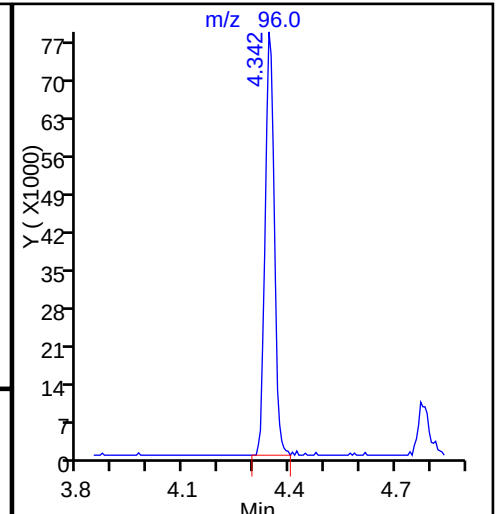
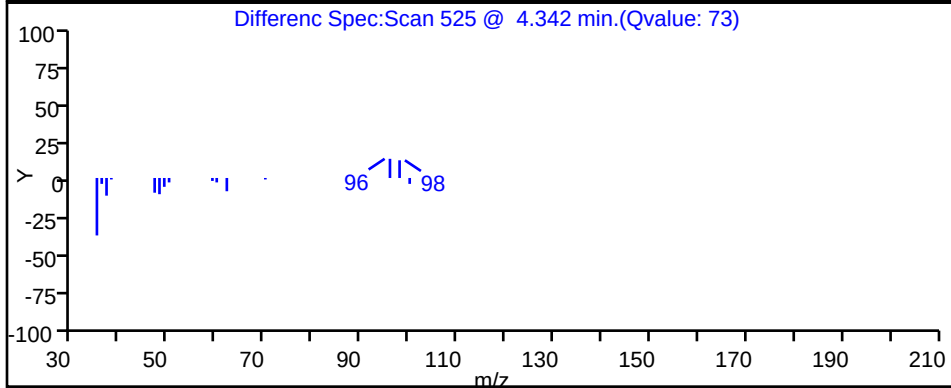
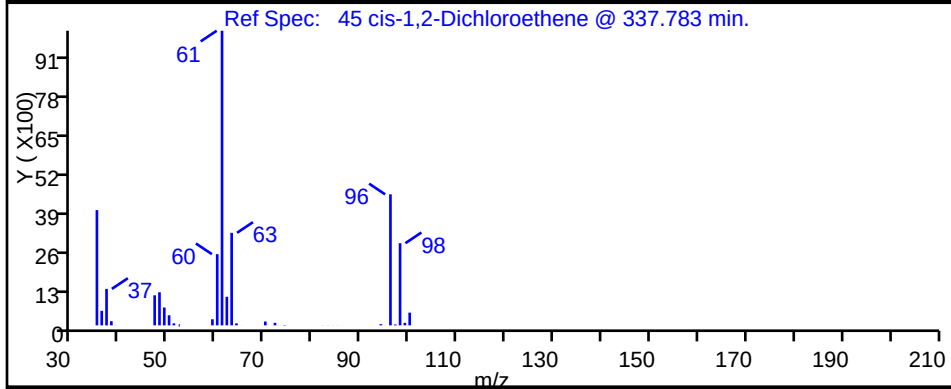
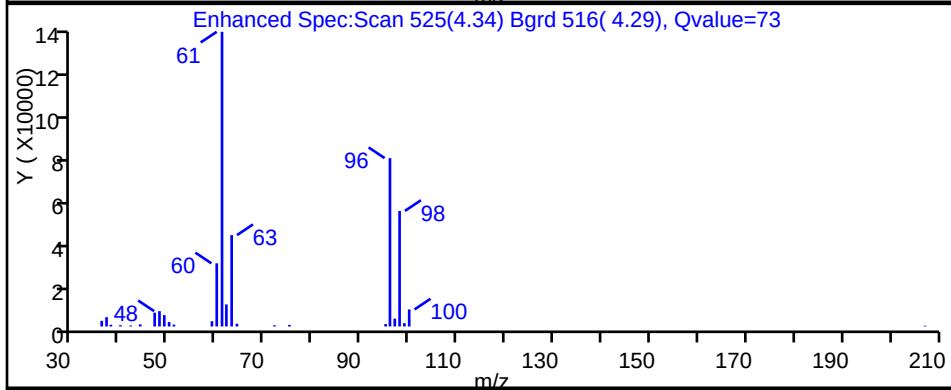
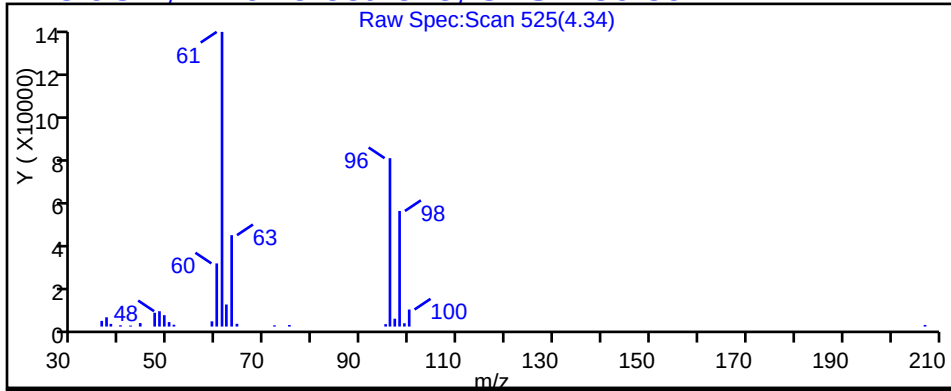
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

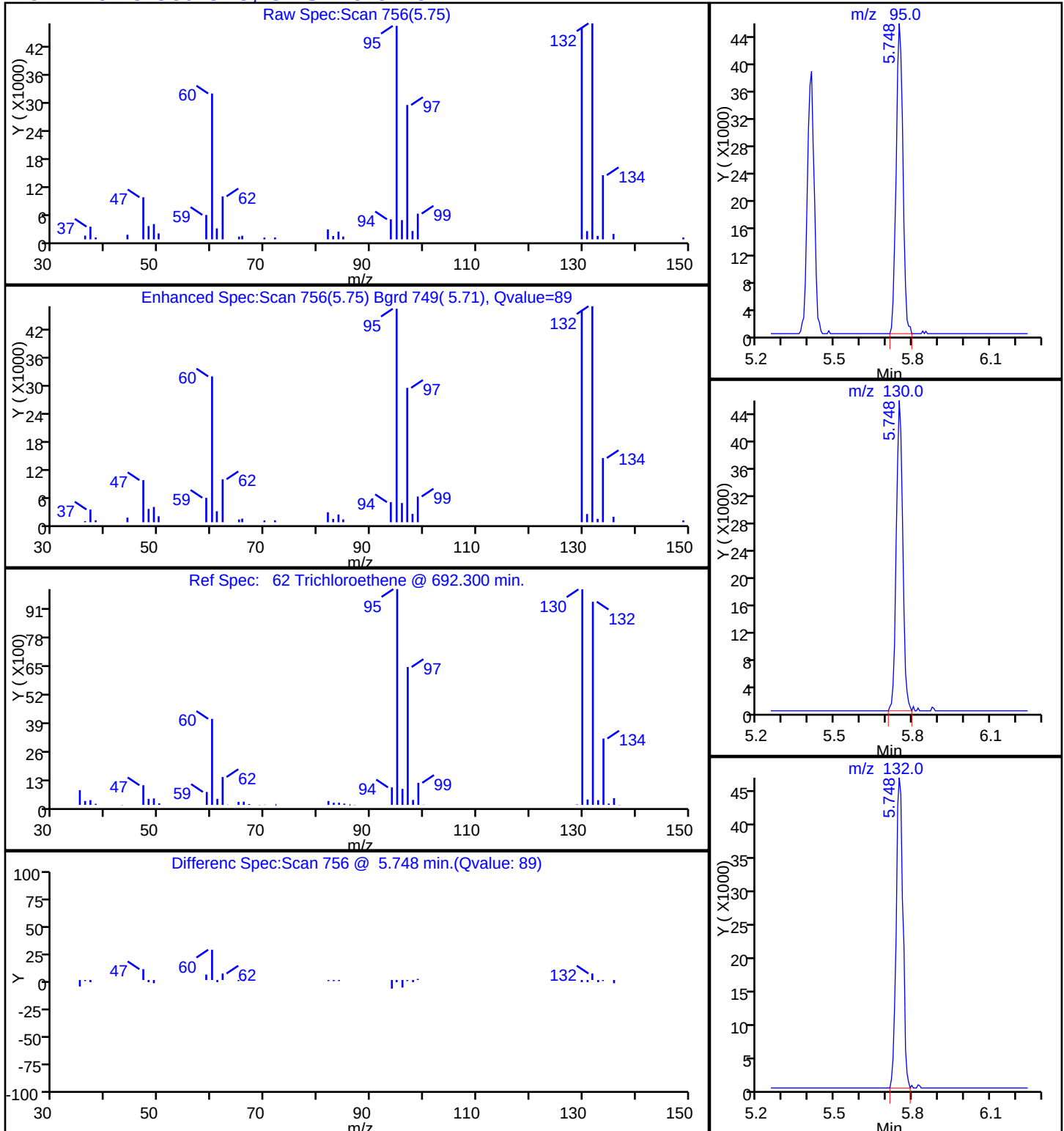
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D

Injection Date: 16-Nov-2015 15:22:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-7

Lab Sample ID: 480-90492-7

Client ID: 4009-12

Operator ID: GTG

ALS Bottle#: 75

Worklist Smp#: 15

Purge Vol: 5.000 mL

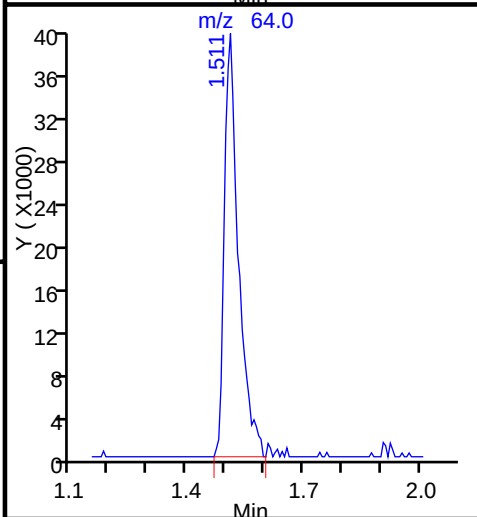
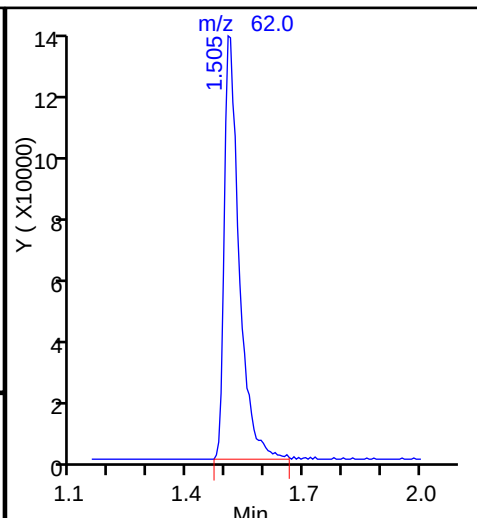
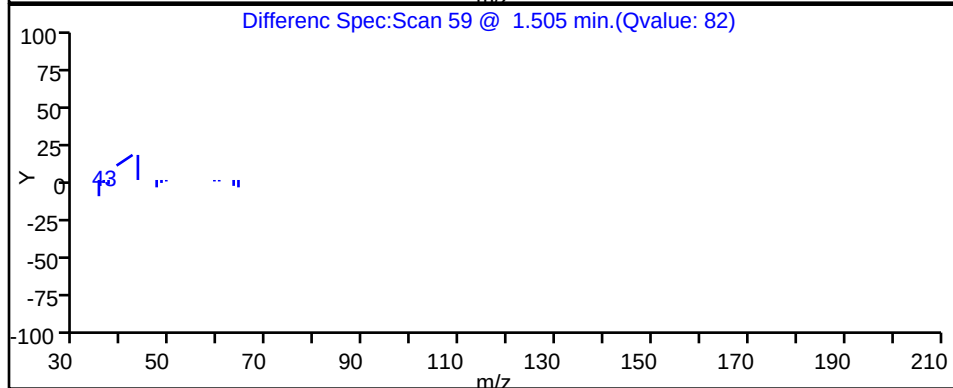
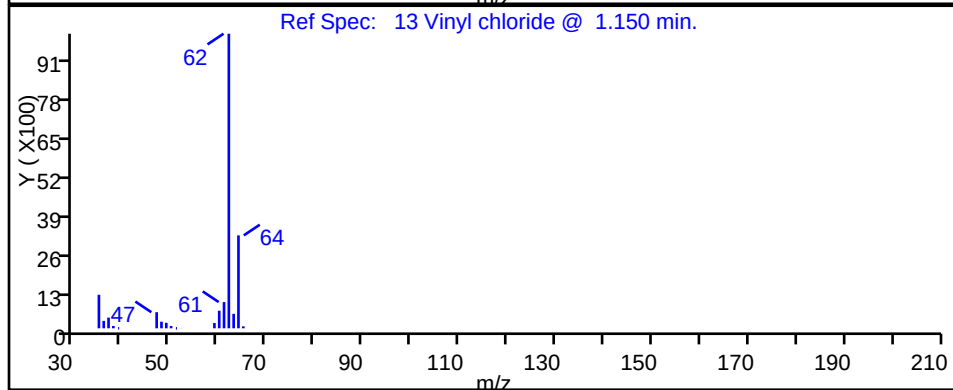
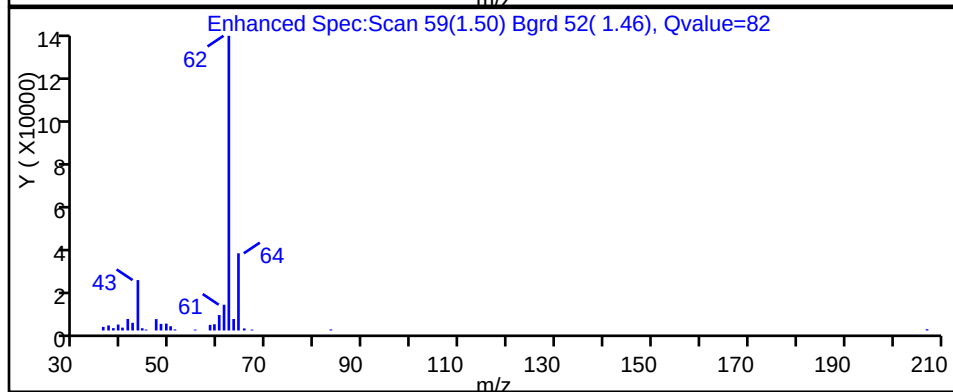
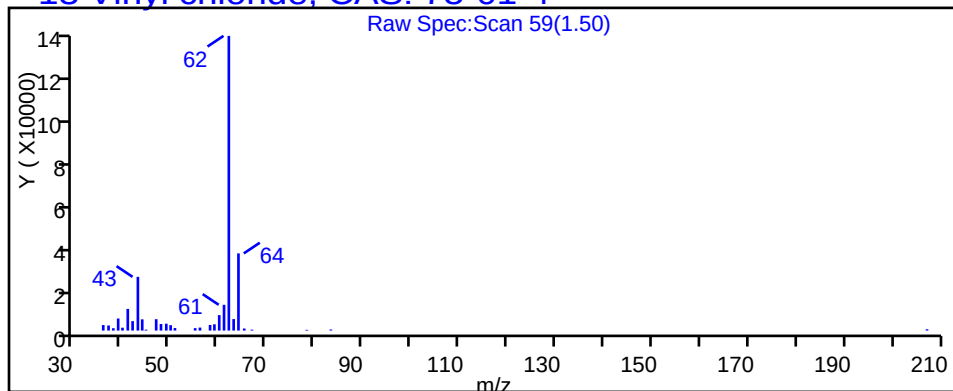
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

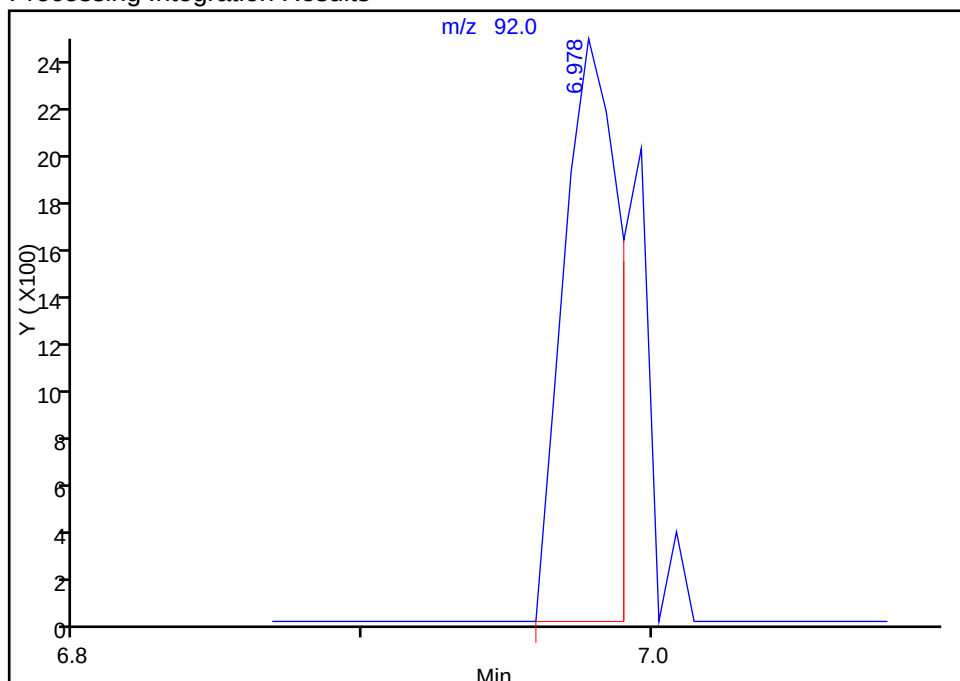
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4786.D
Injection Date: 16-Nov-2015 15:22:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-7 Lab Sample ID: 480-90492-7
Client ID: 4009-12
Operator ID: GTG ALS Bottle#: 75 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

74 Toluene, CAS: 108-88-3

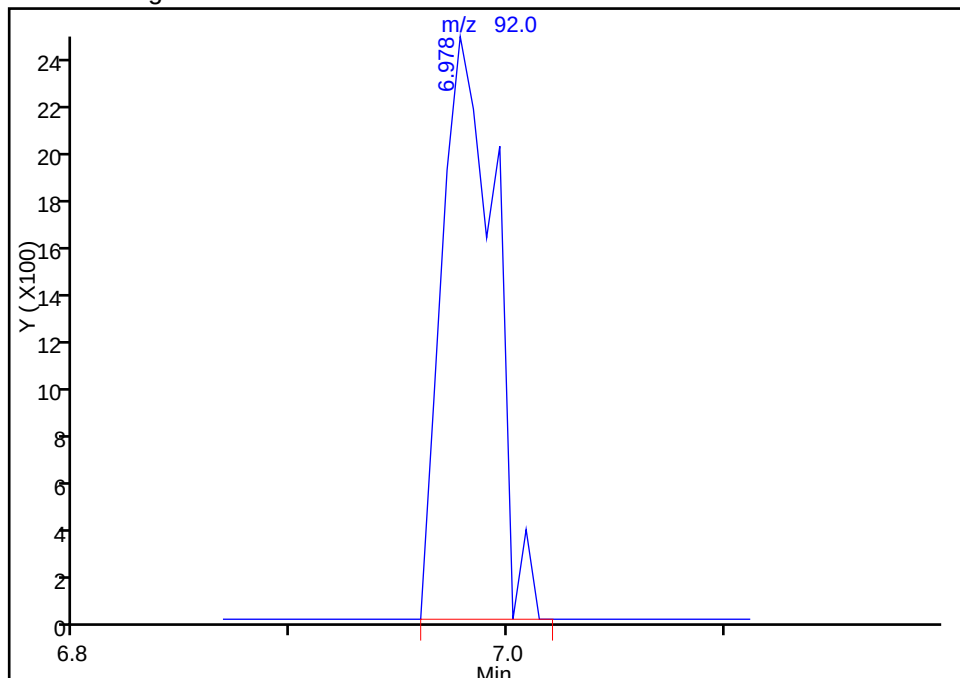
RT: 6.98
Area: 3264
Amount: 0.173905
Amount Units: ug/L

Processing Integration Results



RT: 6.98
Area: 4121
Amount: 0.219566
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 16-Nov-2015 16:25:09
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-13 Lab Sample ID: 480-90492-8

Matrix: Water Lab File ID: S4787.D

Analysis Method: 8260C Date Collected: 11/04/2015 11:05

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 15:45

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 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	3.2		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-13 Lab Sample ID: 480-90492-8
 Matrix: Water Lab File ID: S4787.D
 Analysis Method: 8260C Date Collected: 11/04/2015 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 15:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4787.D
 Lims ID: 480-90492-A-8 Lab Sample ID: 480-90492-8
 Client ID: 4009-13
 Sample Type: Client
 Inject. Date: 16-Nov-2015 15:45:30 ALS Bottle#: 76 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-8
 Misc. Info.: 480-0048379-016
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:25:09 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:25:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	183902	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	346922	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	97	303566	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	56	198552	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	157266	27.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	807898	26.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	218114	25.7	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.747	2.734	0.013	77	11061	2.89	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.139	5.133	0.006	92	99399	3.19	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4787.D

Injection Date: 16-Nov-2015 15:45:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-8

Lab Sample ID: 480-90492-8

Worklist Smp#: 16

Client ID: 4009-13

Purge Vol: 5.000 mL

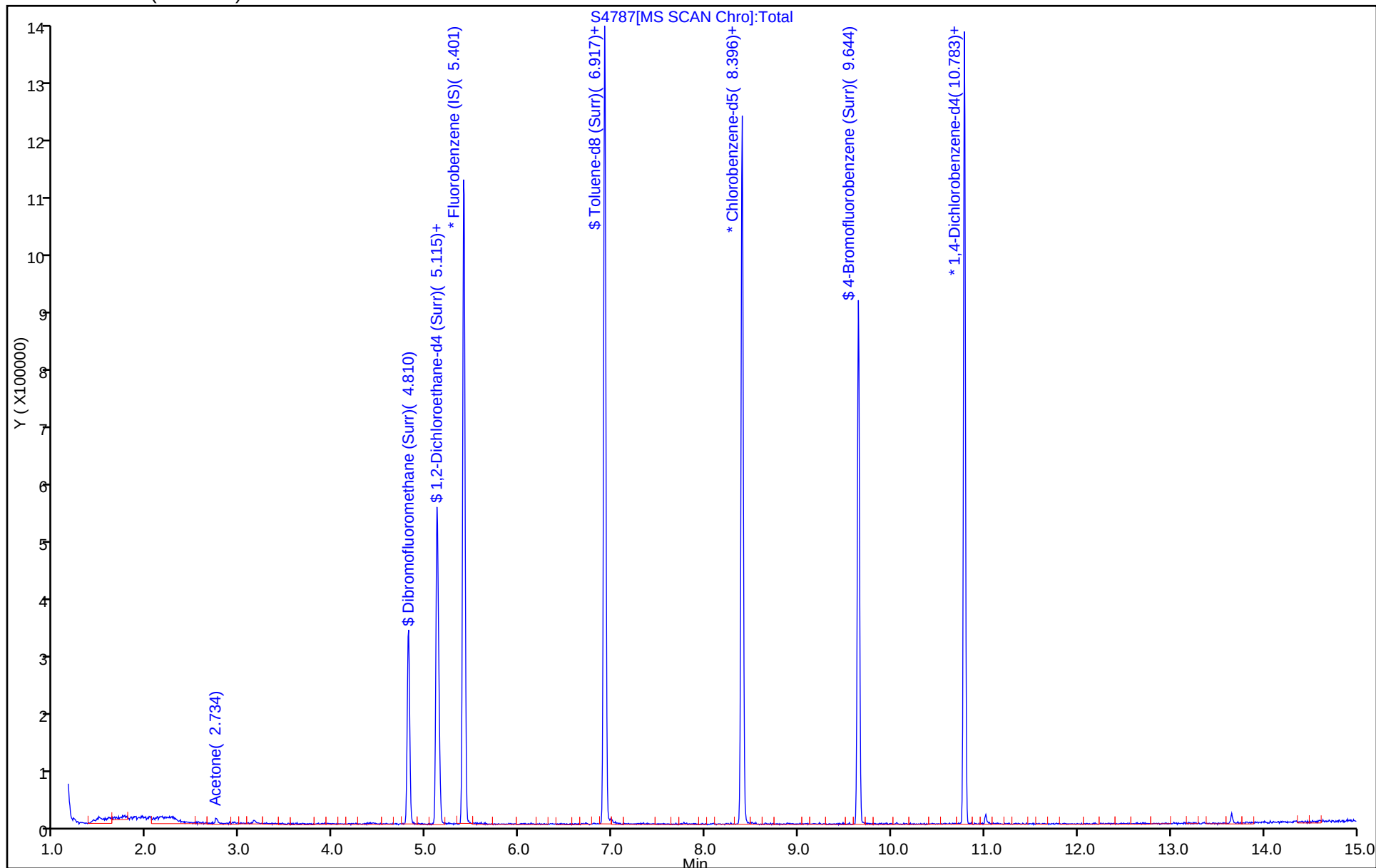
Dil. Factor: 1.0000

ALS Bottle#: 76

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4787.D

Injection Date: 16-Nov-2015 15:45:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-8

Lab Sample ID: 480-90492-8

Client ID: 4009-13

Operator ID: GTG

ALS Bottle#: 76

Worklist Smp#: 16

Purge Vol: 5.000 mL

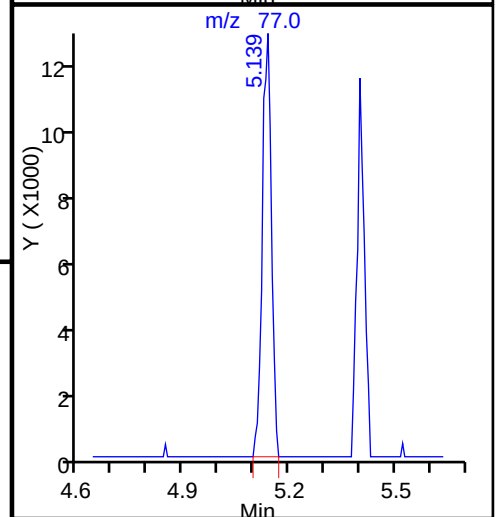
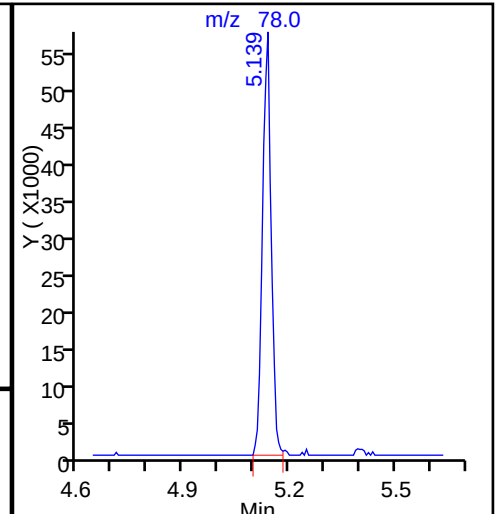
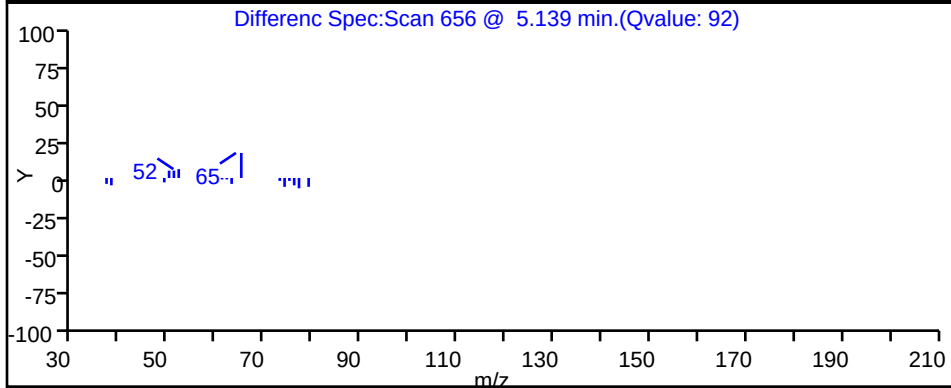
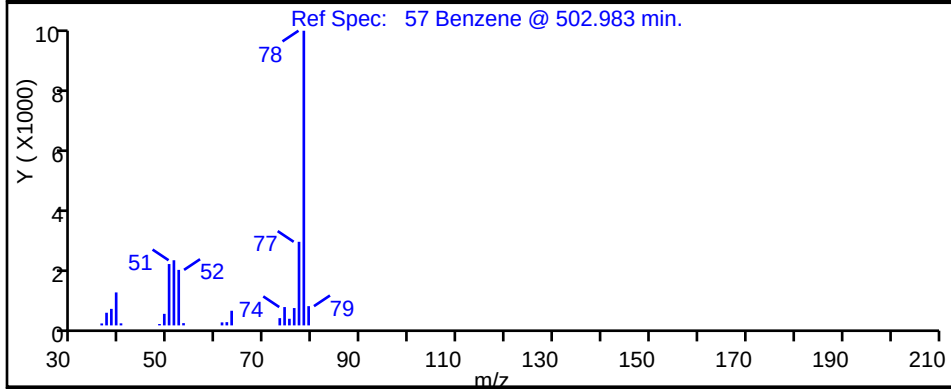
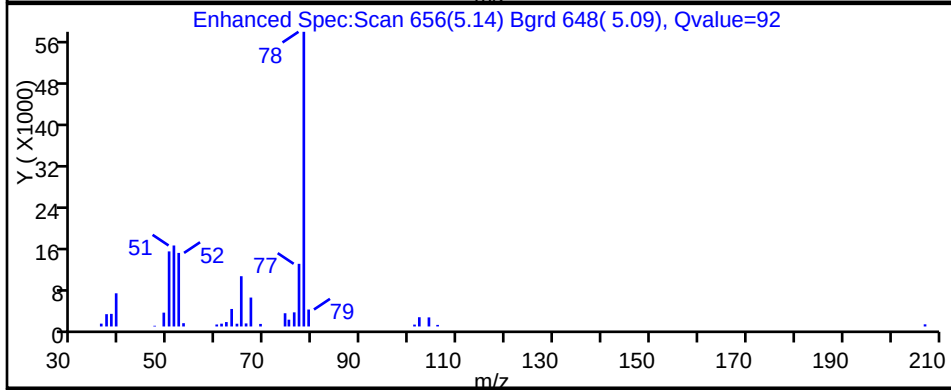
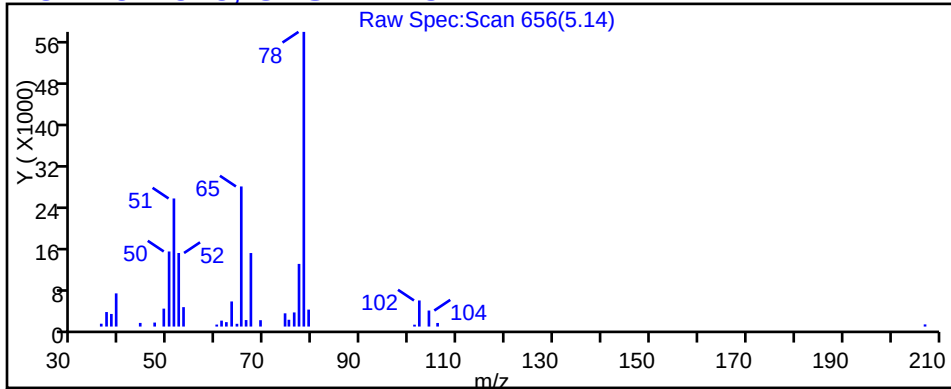
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-13A</u>	Lab Sample ID: <u>480-90492-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4788.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 11:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 16:08</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	0.44	J	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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-13A Lab Sample ID: 480-90492-9
 Matrix: Water Lab File ID: S4788.D
 Analysis Method: 8260C Date Collected: 11/04/2015 11:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4788.D
 Lims ID: 480-90492-A-9 Lab Sample ID: 480-90492-9
 Client ID: 4009-13A
 Sample Type: Client
 Inject. Date: 16-Nov-2015 16:08:30 ALS Bottle#: 77 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-9
 Misc. Info.: 480-0048379-017
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:25:09 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:26:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	173789	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	336014	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	292107	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	57	193671	26.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	150030	27.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	775796	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.644	0.006	85	206424	25.1	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.747	2.734	0.013	41	5871	1.63	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	46	13049	0.4429	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4788.D

Injection Date: 16-Nov-2015 16:08:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-9

Lab Sample ID: 480-90492-9

Worklist Smp#: 17

Client ID: 4009-13A

Purge Vol: 5.000 mL

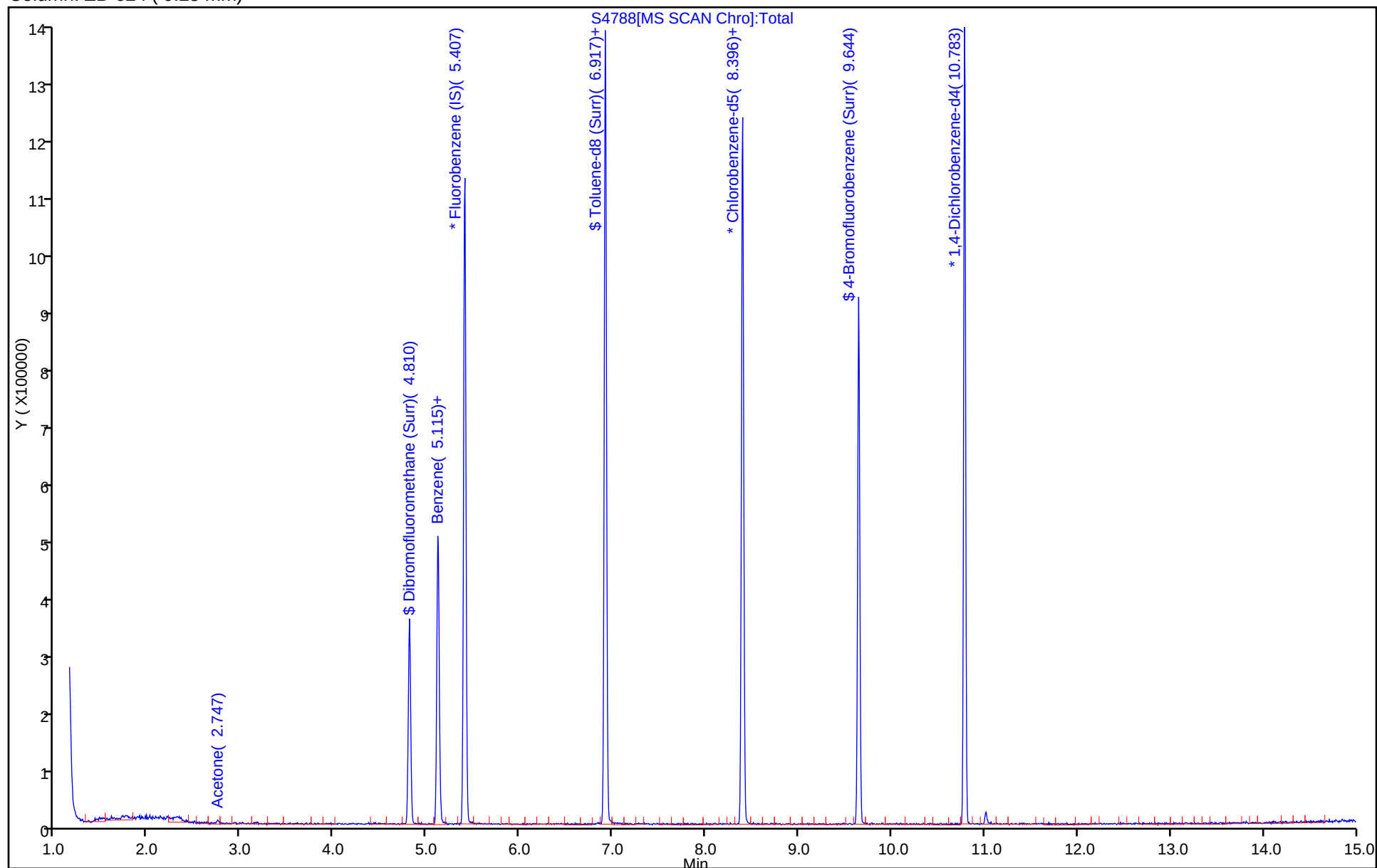
Dil. Factor: 1.0000

ALS Bottle#: 77

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4788.D

Injection Date: 16-Nov-2015 16:08:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-9

Lab Sample ID: 480-90492-9

Client ID: 4009-13A

Operator ID: GTG

ALS Bottle#: 77

Worklist Smp#: 17

Purge Vol: 5.000 mL

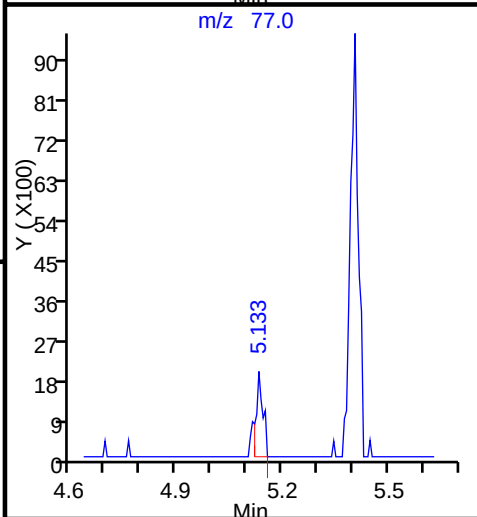
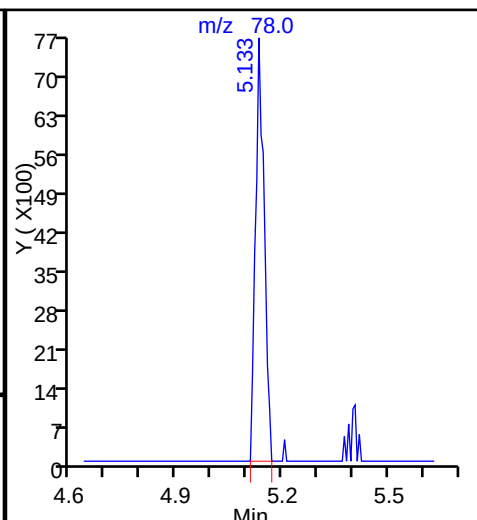
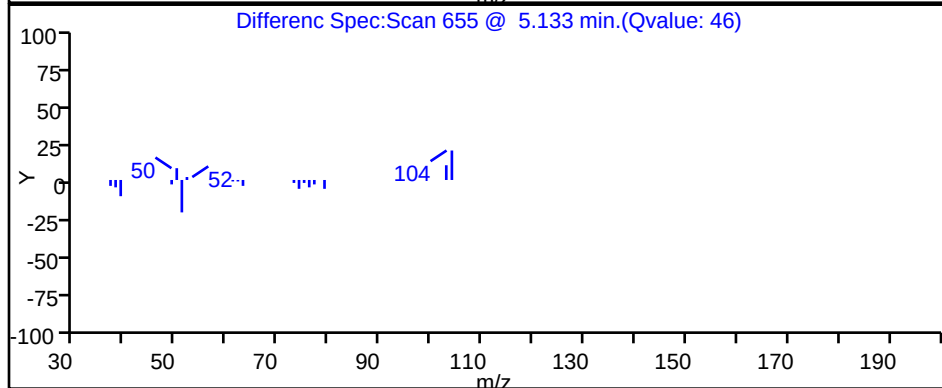
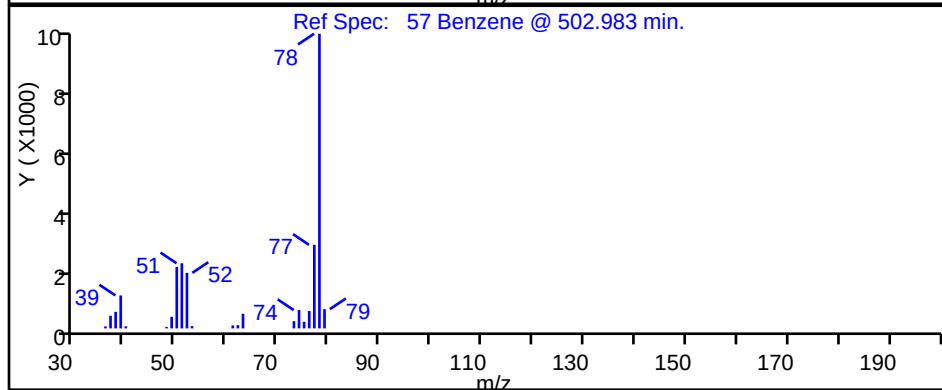
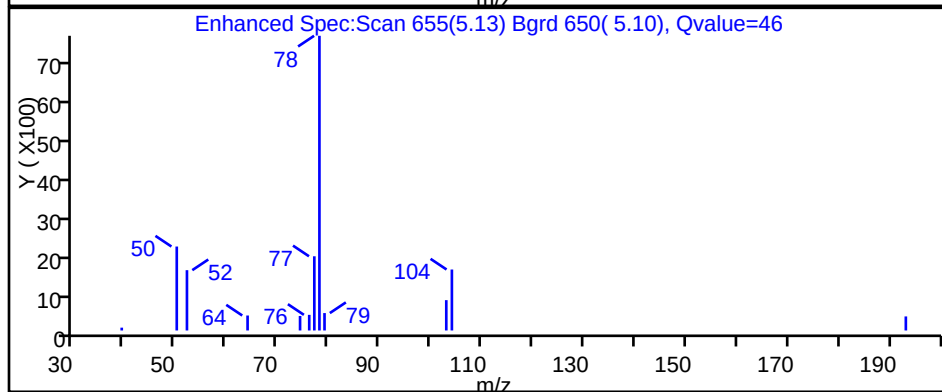
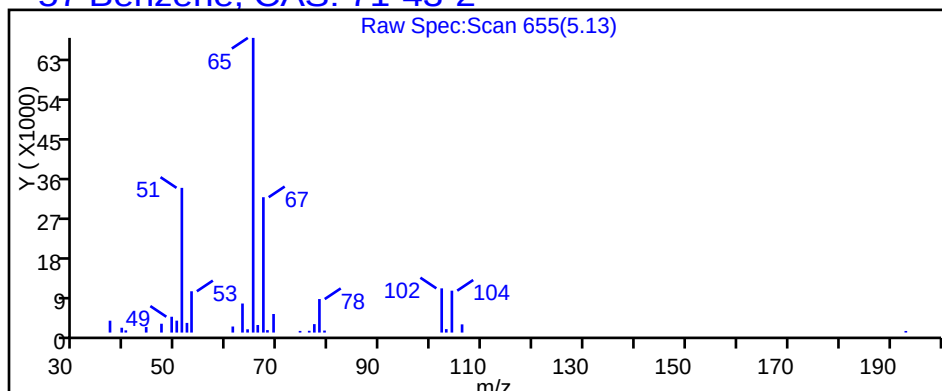
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14</u>	Lab Sample ID: <u>480-90492-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4789.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 16:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	3.1	J	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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-14 Lab Sample ID: 480-90492-10
 Matrix: Water Lab File ID: S4789.D
 Analysis Method: 8260C Date Collected: 11/04/2015 09:05
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 16:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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	1.2		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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4789.D
 Lims ID: 480-90492-A-10 Lab Sample ID: 480-90492-10
 Client ID: 4009-14
 Sample Type: Client
 Inject. Date: 16-Nov-2015 16:31:30 ALS Bottle#: 78 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-10
 Misc. Info.: 480-0048379-018
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:53:41 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 16:53:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	181896	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	334077	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	292924	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	56	201383	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	159679	28.3	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	819105	27.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.644	0.006	85	219543	26.9	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.747	2.734	0.013	92	11664	3.09	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	92	368414	11.9	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.984	6.984	0.000	82	20947	1.17	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4789.D

Injection Date: 16-Nov-2015 16:31:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-10

Lab Sample ID: 480-90492-10

Worklist Smp#: 18

Client ID: 4009-14

Purge Vol: 5.000 mL

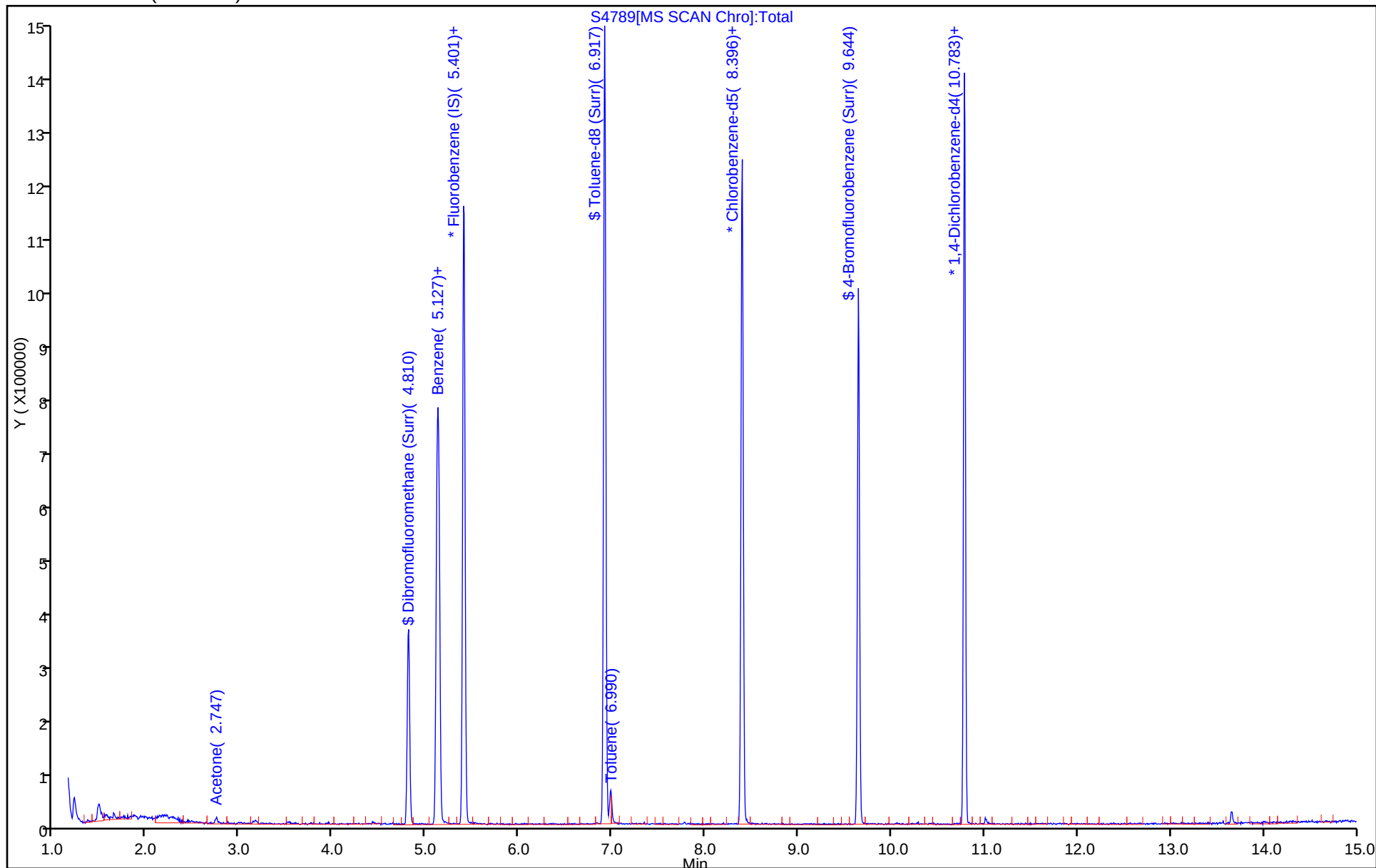
Dil. Factor: 1.0000

ALS Bottle#: 78

Method: S-8260

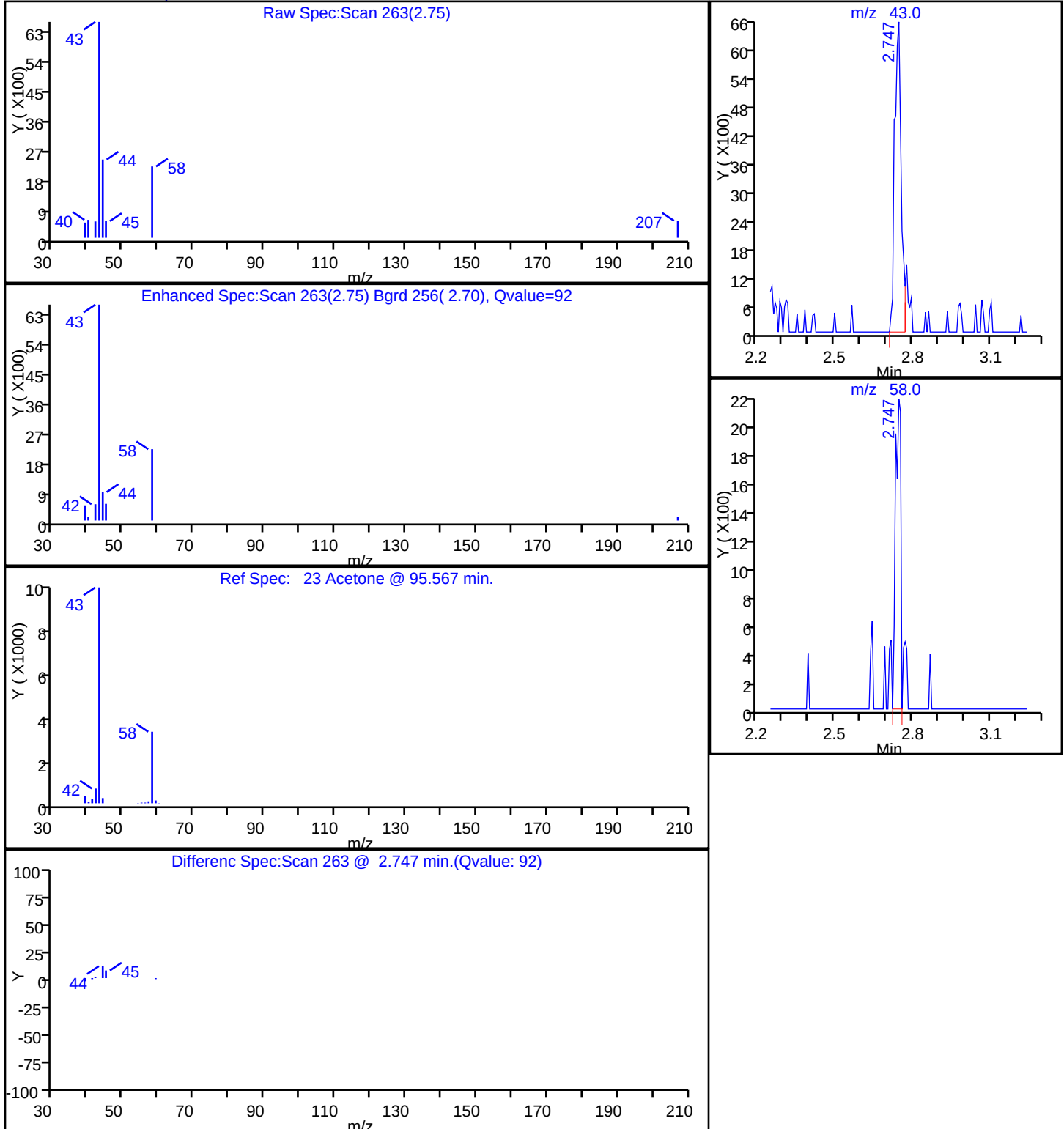
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



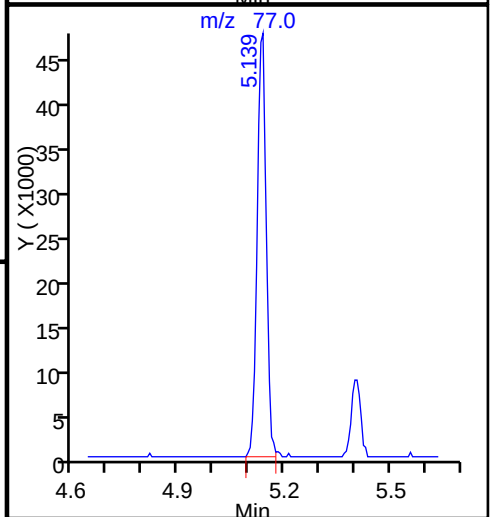
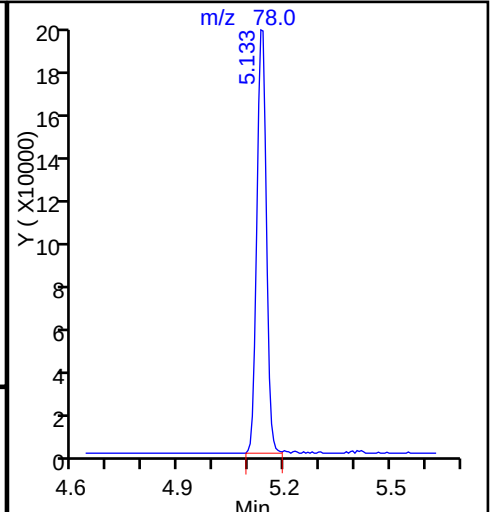
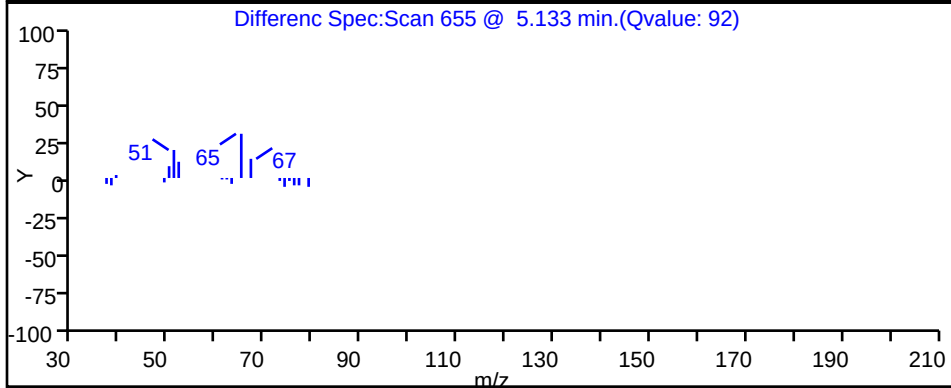
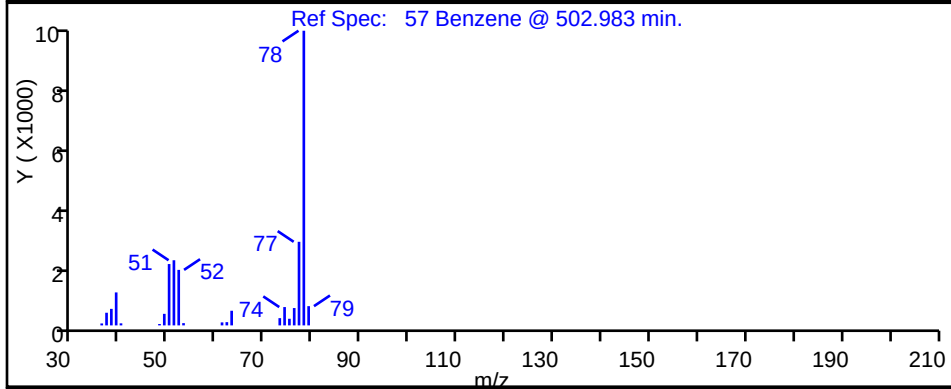
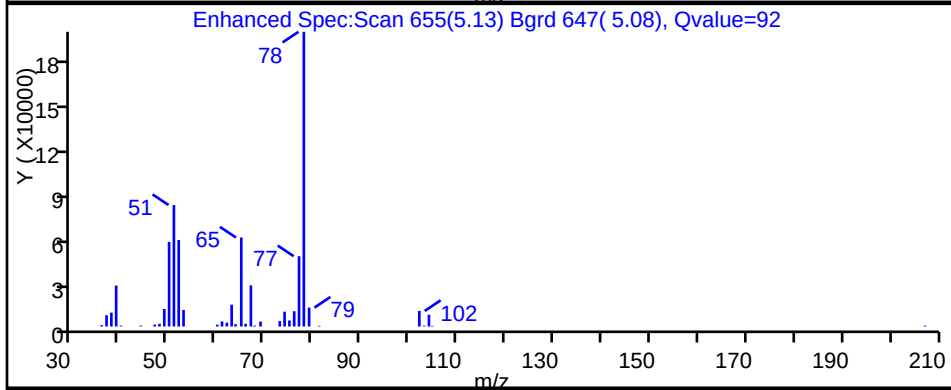
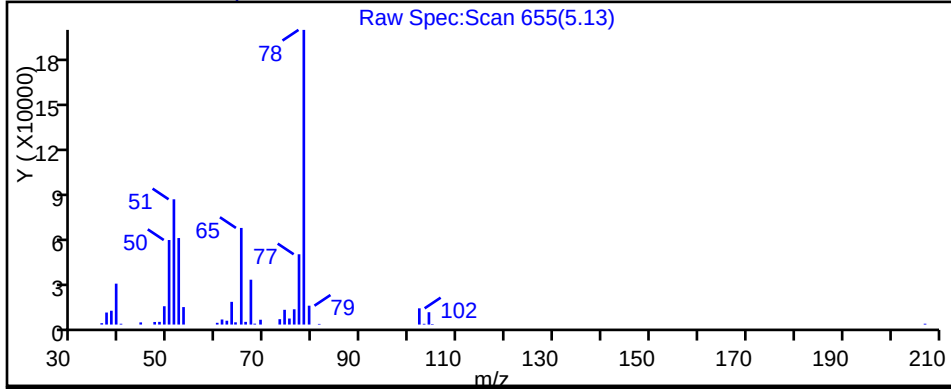
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4789.D
Injection Date: 16-Nov-2015 16:31:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-10 Lab Sample ID: 480-90492-10
Client ID: 4009-14
Operator ID: GTG ALS Bottle#: 78 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

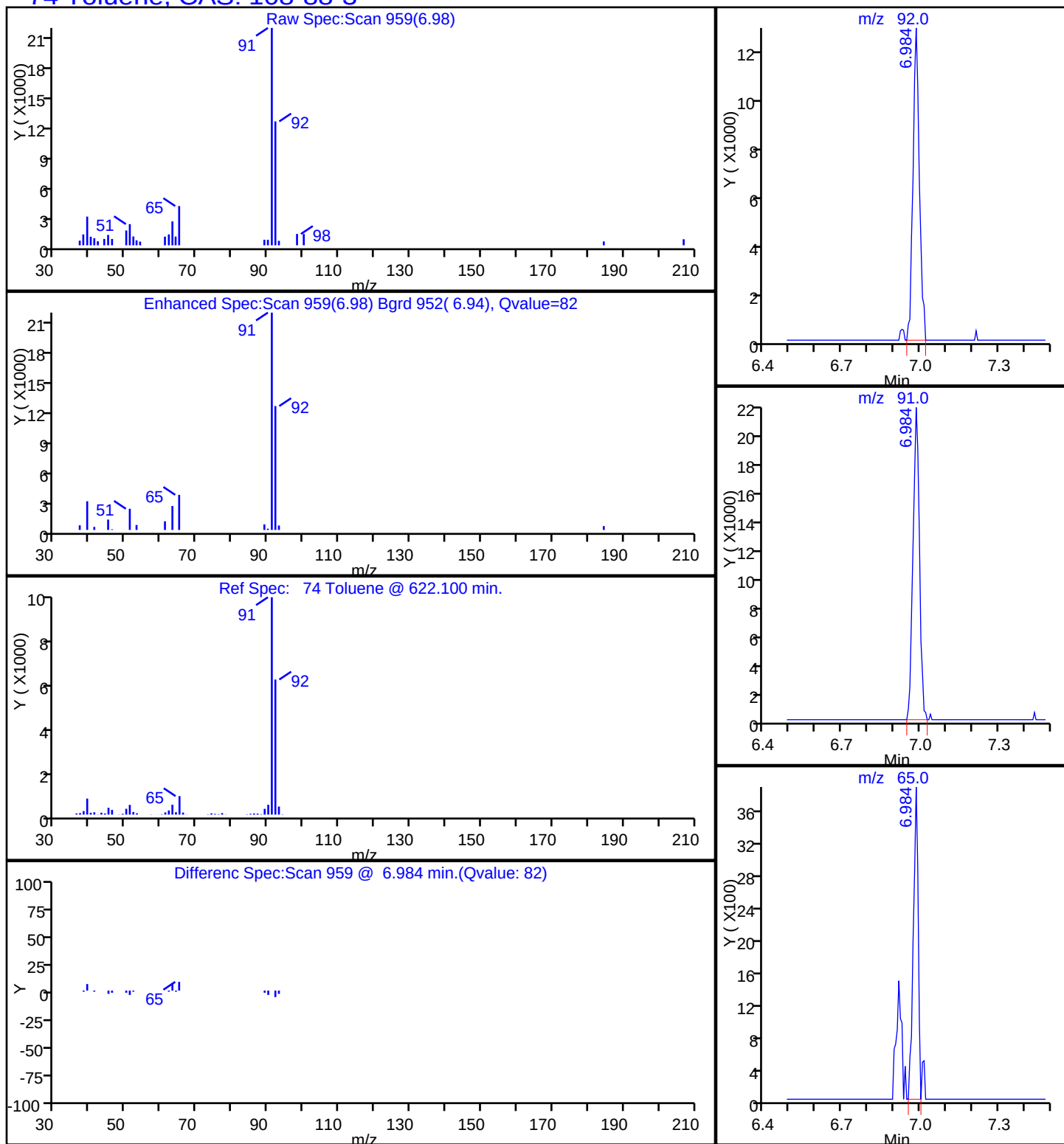
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4789.D
Injection Date: 16-Nov-2015 16:31:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-10 Lab Sample ID: 480-90492-10
Client ID: 4009-14
Operator ID: GTG ALS Bottle#: 78 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\20151116-48379.b\S4789.D
Injection Date: 16-Nov-2015 16:31:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-10 Lab Sample ID: 480-90492-10
Client ID: 4009-14
Operator ID: GTG ALS Bottle#: 78 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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-15 Lab Sample ID: 480-90492-11

Matrix: Water Lab File ID: S4790.D

Analysis Method: 8260C Date Collected: 11/04/2015 09:55

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 16:54

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 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	4.9	J	1.0	3.0
71-43-2	Benzene	8.0		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-15 Lab Sample ID: 480-90492-11
 Matrix: Water Lab File ID: S4790.D
 Analysis Method: 8260C Date Collected: 11/04/2015 09:55
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 16:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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	0.84	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)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4790.D
 Lims ID: 480-90492-A-11 Lab Sample ID: 480-90492-11
 Client ID: 4009-15
 Sample Type: Client
 Inject. Date: 16-Nov-2015 16:54:30 ALS Bottle#: 79 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-11
 Misc. Info.: 480-0048379-019
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 17:13:36 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 17:13:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	97	183658	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	352959	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	95	305469	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	68	205934	27.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	164342	28.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	829274	26.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	219848	25.5	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.741	2.734	0.007	86	18866	4.94	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	91	248512	7.98	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.990	6.984	0.006	72	15973	0.8415	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4790.D

Injection Date: 16-Nov-2015 16:54:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-11

Lab Sample ID: 480-90492-11

Worklist Smp#: 19

Client ID: 4009-15

Purge Vol: 5.000 mL

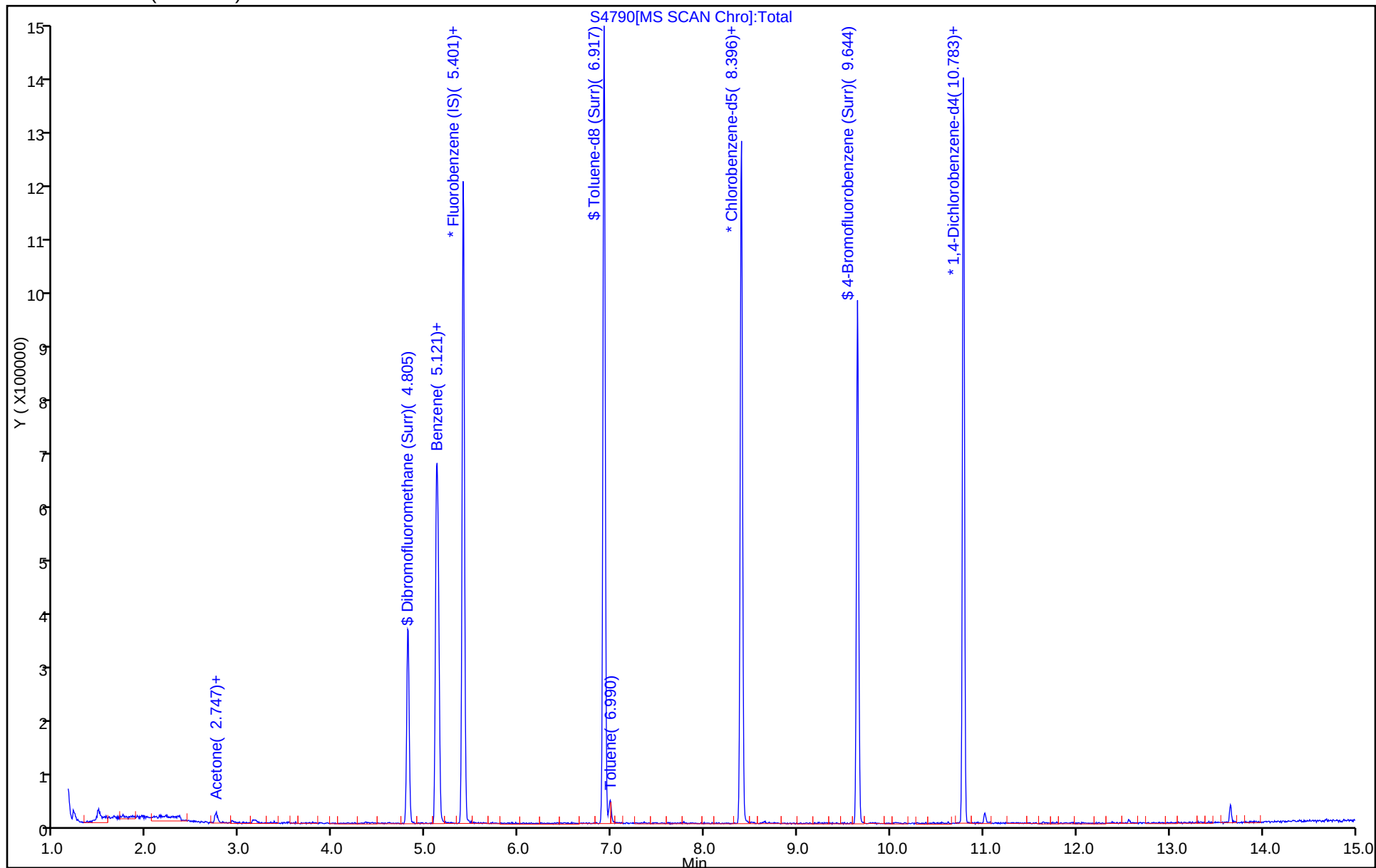
Dil. Factor: 1.0000

ALS Bottle#: 79

Method: S-8260

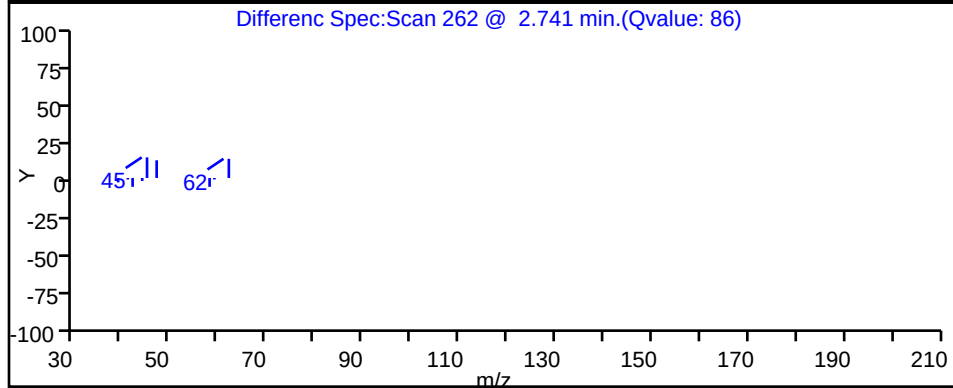
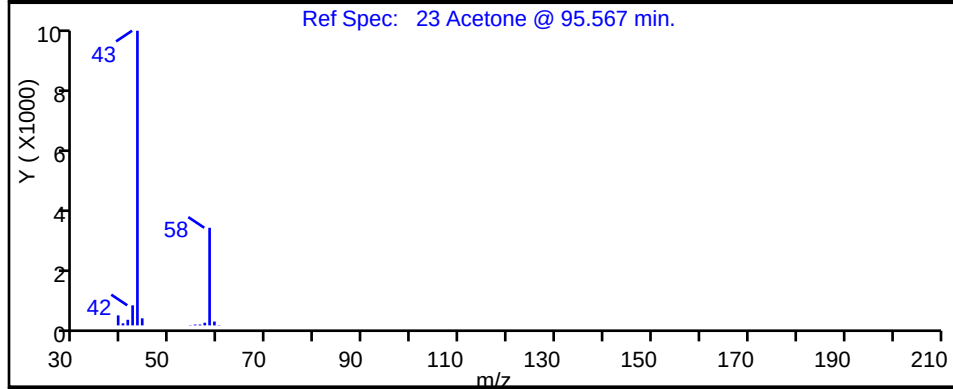
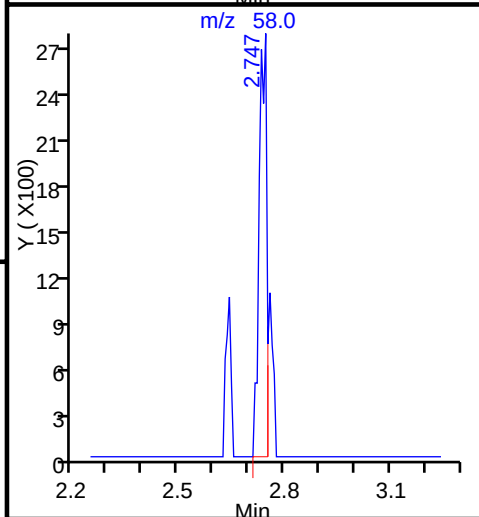
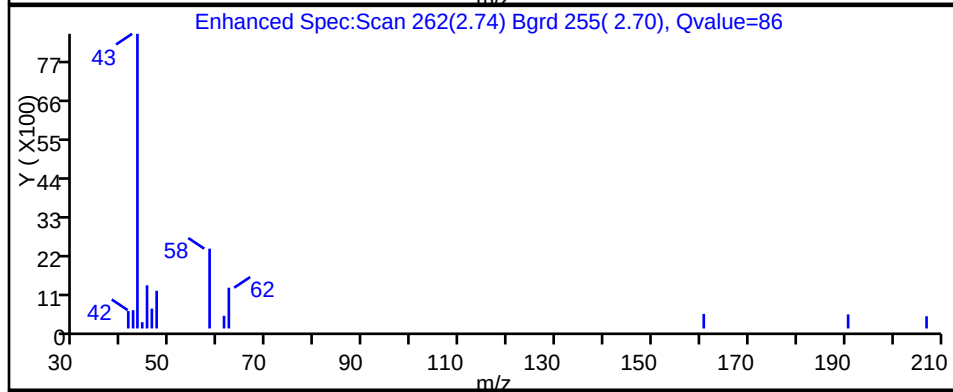
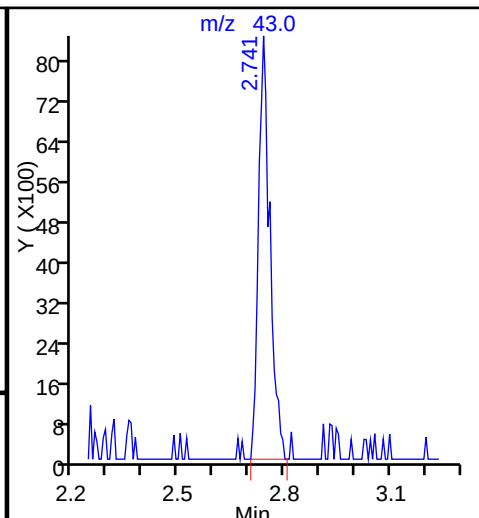
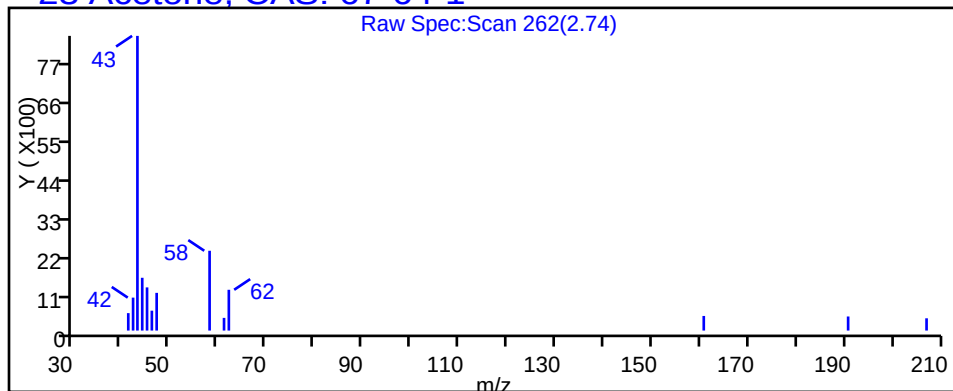
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



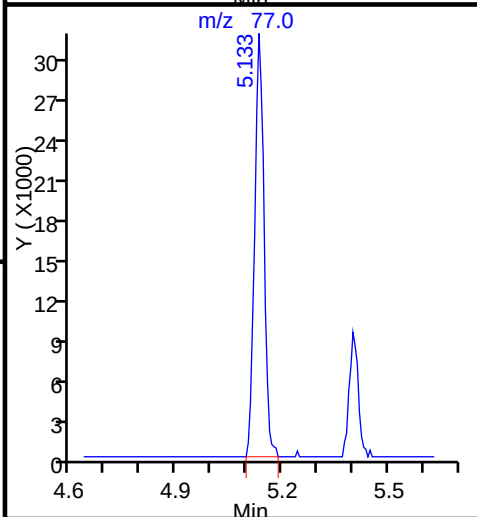
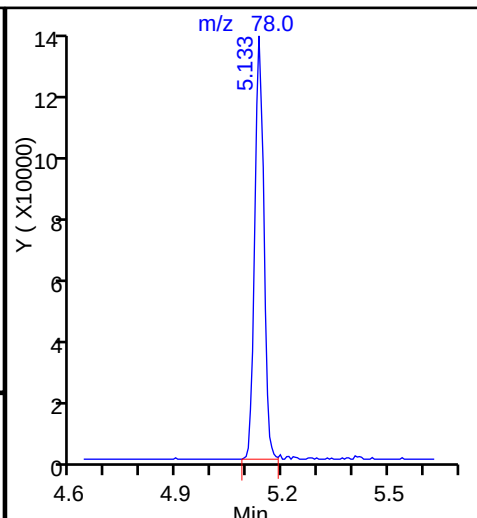
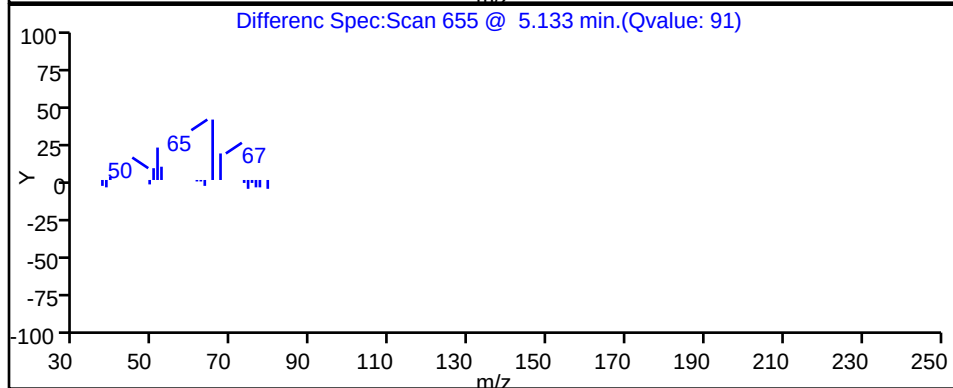
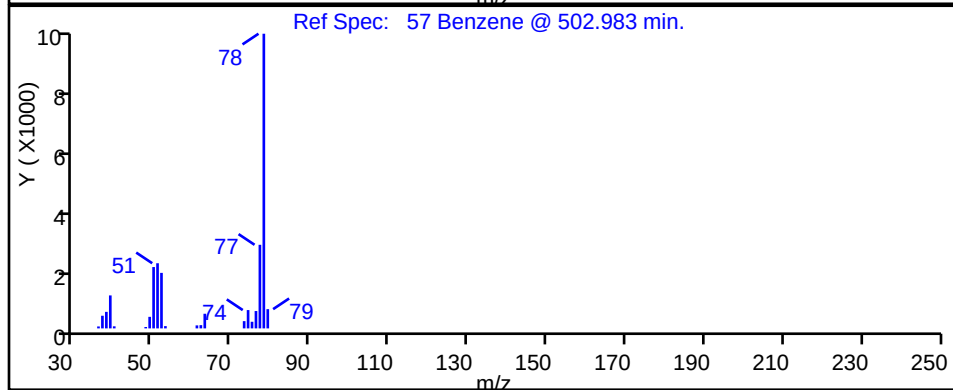
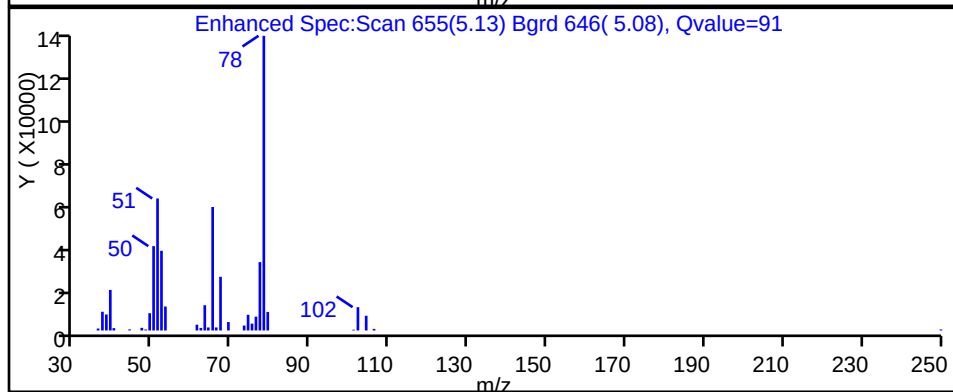
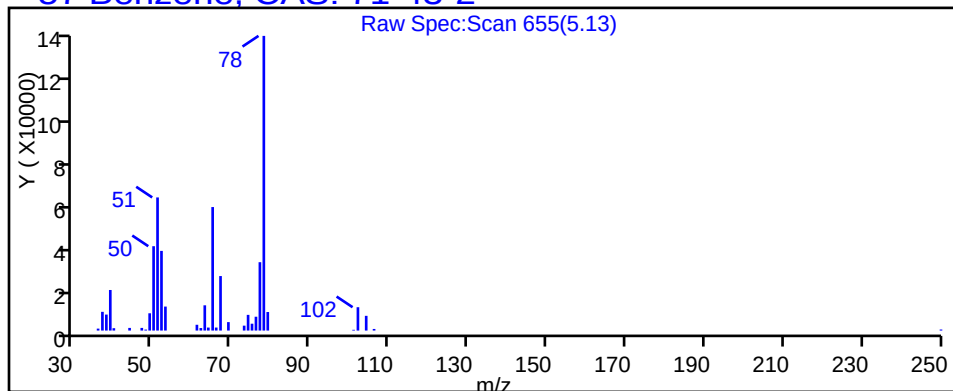
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4790.D
Injection Date: 16-Nov-2015 16:54:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-11 Lab Sample ID: 480-90492-11
Client ID: 4009-15
Operator ID: GTG ALS Bottle#: 79 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

23 Acetone, CAS: 67-64-1

TestAmerica Buffalo

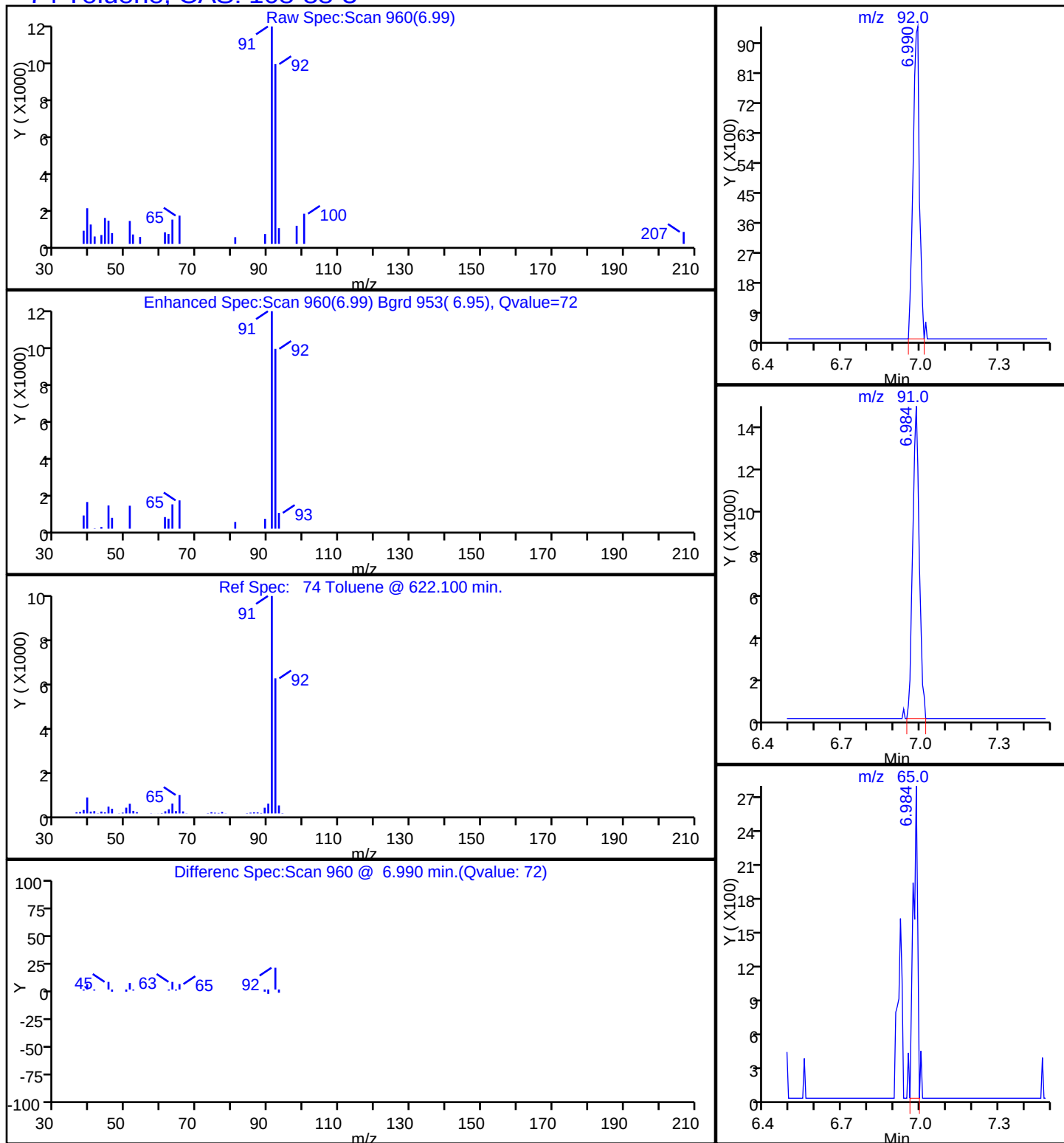
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Injection Date: 16-Nov-2015 16:54:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-11 Lab Sample ID: 480-90492-11
Client ID: 4009-15
Operator ID: GTG ALS Bottle#: 79 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

57 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4790.D
Injection Date: 16-Nov-2015 16:54:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-11 Lab Sample ID: 480-90492-11
Client ID: 4009-15
Operator ID: GTG ALS Bottle#: 79 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

74 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-16</u>	Lab Sample ID: <u>480-90492-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4791.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 17:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-16</u>	Lab Sample ID: <u>480-90492-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4791.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 17:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4791.D
 Lims ID: 480-90492-A-12 Lab Sample ID: 480-90492-12
 Client ID: 4009-16
 Sample Type: Client
 Inject. Date: 16-Nov-2015 17:17:30 ALS Bottle#: 80 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-12
 Misc. Info.: 480-0048379-020
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 15:35:06 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 17:35:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	188172	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	353390	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	308487	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	57	201129	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	160577	27.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	823690	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	222143	25.7	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.741	2.734	0.007	88	8018	2.05	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.139	5.133	0.006	33	9516	0.2983	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4791.D

Injection Date: 16-Nov-2015 17:17:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-12

Lab Sample ID: 480-90492-12

Worklist Smp#: 20

Client ID: 4009-16

Purge Vol: 5.000 mL

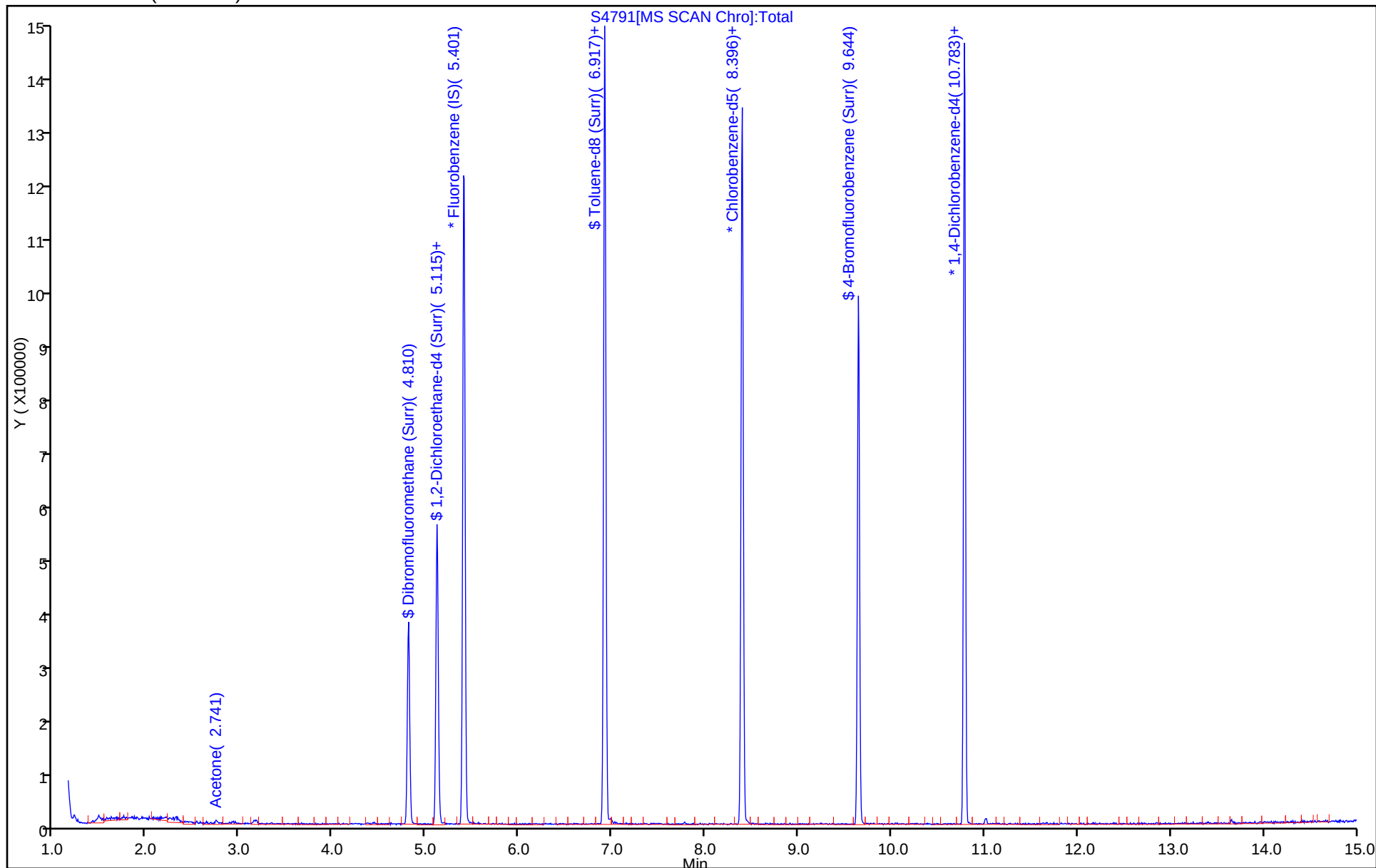
Dil. Factor: 1.0000

ALS Bottle#: 80

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-16A</u>	Lab Sample ID: <u>480-90492-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4792.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 17:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	3.0		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-16A Lab Sample ID: 480-90492-13
 Matrix: Water Lab File ID: S4792.D
 Analysis Method: 8260C Date Collected: 11/04/2015 09:30
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 17:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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)	109		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4792.D
 Lims ID: 480-90492-A-13 Lab Sample ID: 480-90492-13
 Client ID: 4009-16A
 Sample Type: Client
 Inject. Date: 16-Nov-2015 17:40:30 ALS Bottle#: 81 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-13
 Misc. Info.: 480-0048379-021
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 15:56:48 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 17:58:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	169506	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	333257	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	96	283811	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	53	194881	27.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	155901	29.6	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	806719	27.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.644	0.006	83	215569	26.5	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.741	2.734	0.007	80	5959	1.69	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83	4.652	4.652	0.000	12	3895	0.3070	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	83	85786	2.99	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4792.D

Injection Date: 16-Nov-2015 17:40:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-13

Lab Sample ID: 480-90492-13

Worklist Smp#: 21

Client ID: 4009-16A

Purge Vol: 5.000 mL

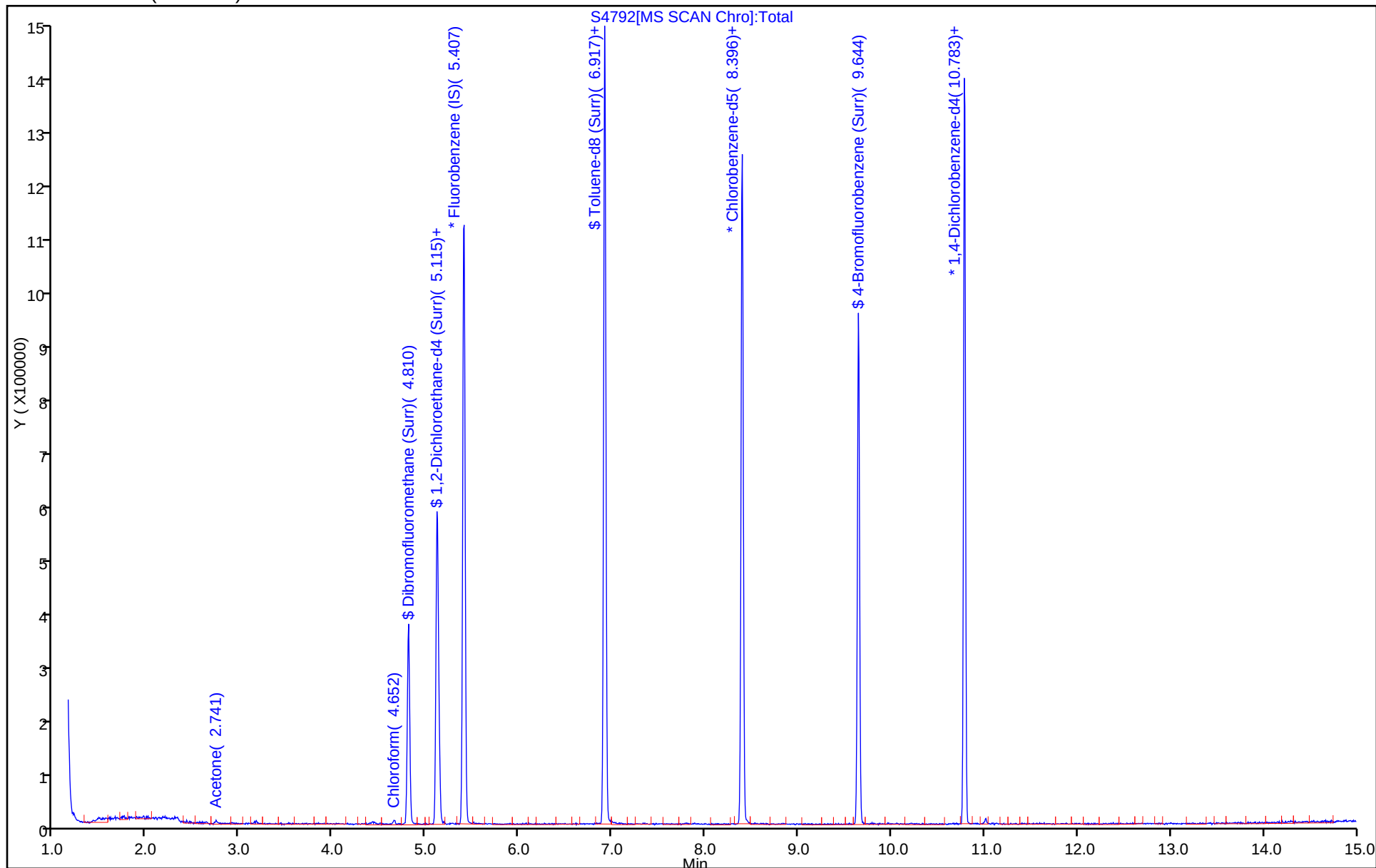
Dil. Factor: 1.0000

ALS Bottle#: 81

Method: S-8260

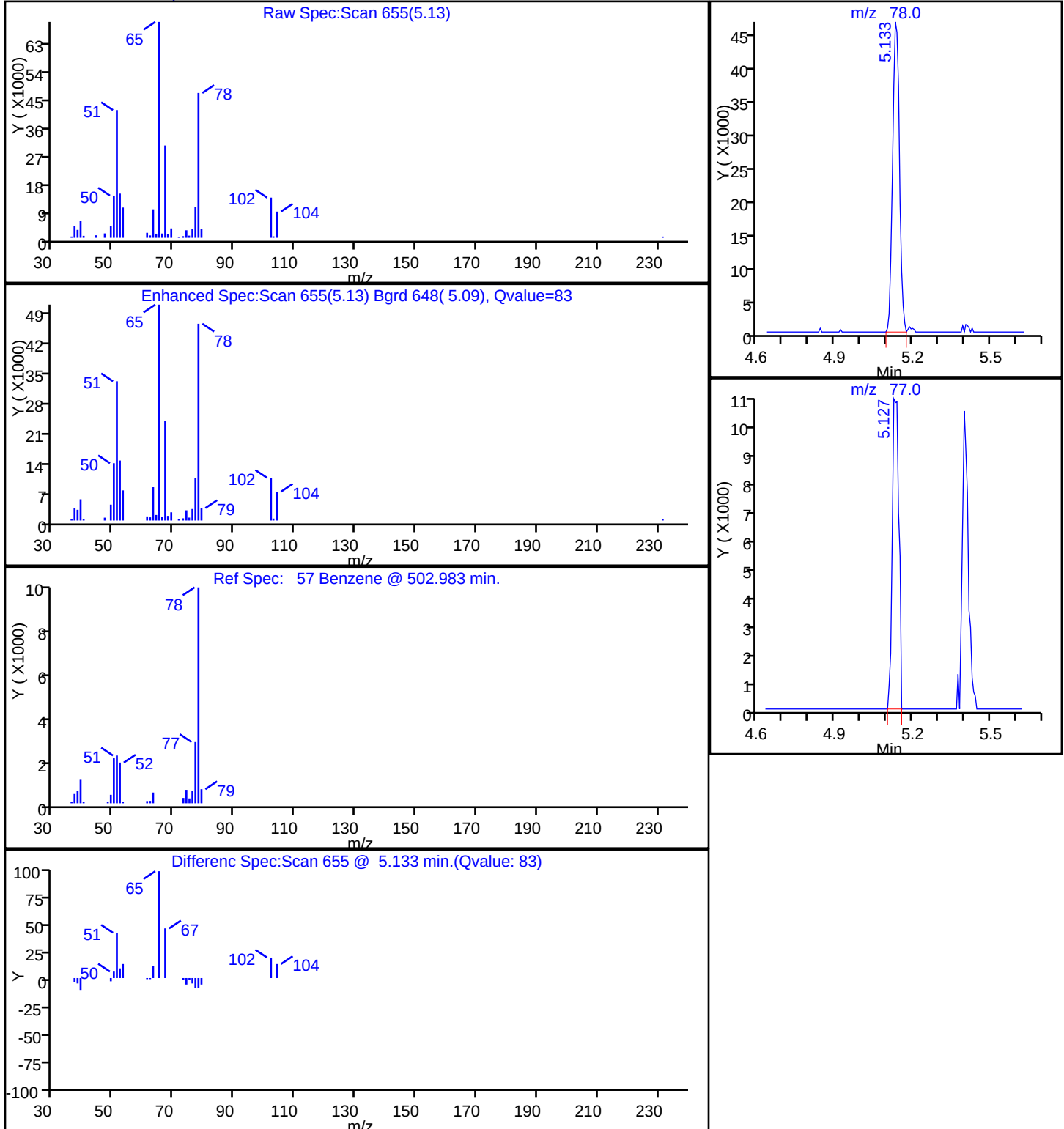
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4792.D
Injection Date: 16-Nov-2015 17:40:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-13 Lab Sample ID: 480-90492-13
Client ID: 4009-16A
Operator ID: GTG ALS Bottle#: 81 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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-18</u>	Lab Sample ID: <u>480-90492-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4793.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 08:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 18:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-18</u>	Lab Sample ID: <u>480-90492-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4793.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 08:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 18:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4793.D
 Lims ID: 480-90492-A-14 Lab Sample ID: 480-90492-14
 Client ID: 4009-18
 Sample Type: Client
 Inject. Date: 16-Nov-2015 18:03:30 ALS Bottle#: 82 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-14
 Misc. Info.: 480-0048379-022
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 18:21:32 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 18:21:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	97	173764	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	333021	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	293207	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	56	198684	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	158133	29.3	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	819950	27.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	217744	26.8	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.735	2.735	0.001	42	5948	1.65	M
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	1	3784	0.2335	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.990	6.984	0.006	34	4065	0.2270	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4793.D

Injection Date: 16-Nov-2015 18:03:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-14

Lab Sample ID: 480-90492-14

Worklist Smp#: 22

Client ID: 4009-18

Purge Vol: 5.000 mL

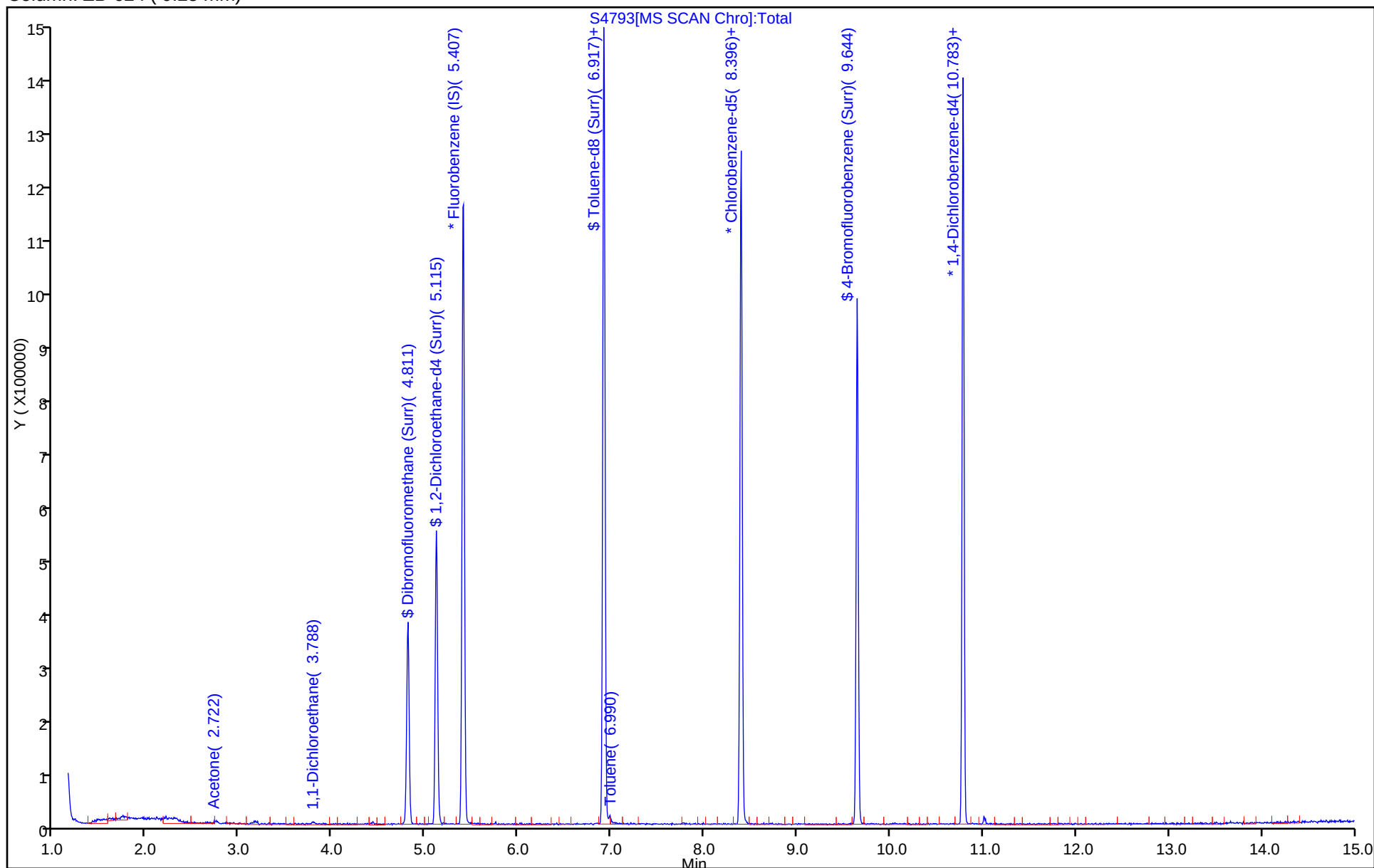
Dil. Factor: 1.0000

ALS Bottle#: 82

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



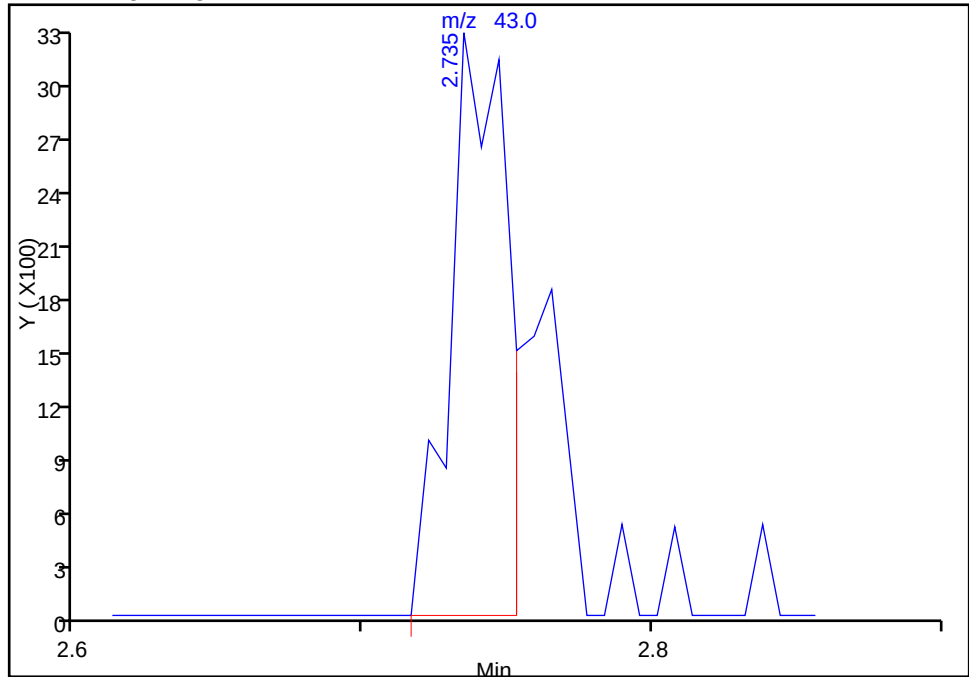
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4793.D		
Injection Date:	16-Nov-2015 18:03:30	Instrument ID:	HP5973S
Lims ID:	480-90492-A-14	Lab Sample ID:	480-90492-14
Client ID:	4009-18		
Operator ID:	GTG	ALS Bottle#:	82
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
		Worklist Smp#:	22

23 Acetone, CAS: 67-64-1

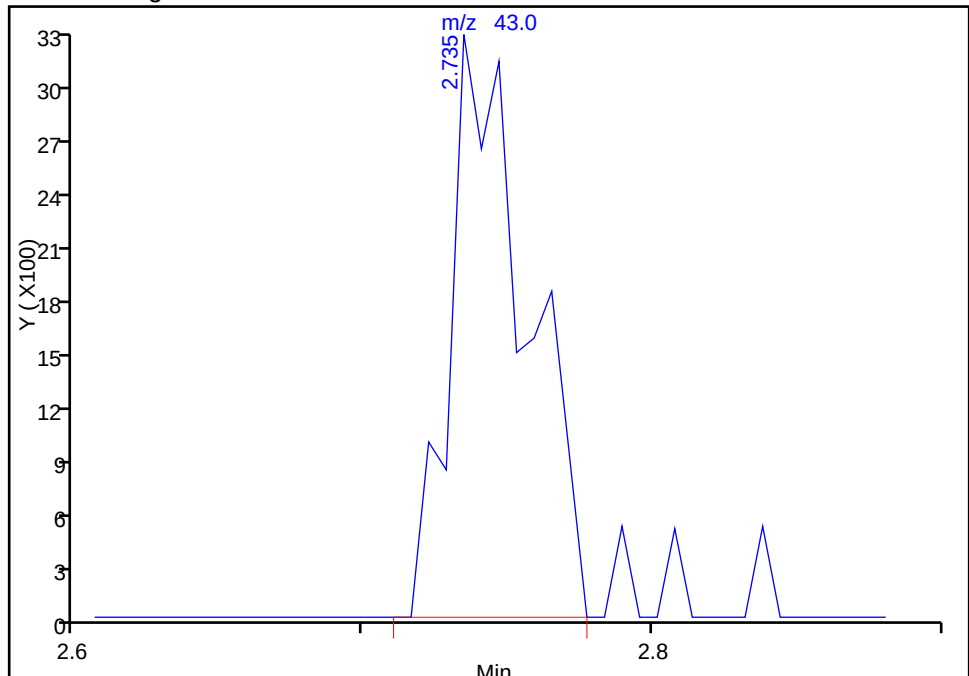
RT: 2.73
Area: 4406
Amount: 1.219995
Amount Units: ug/L

Processing Integration Results



RT: 2.73
Area: 5948
Amount: 1.646966
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 16-Nov-2015 18:21:32
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-19 Lab Sample ID: 480-90492-15

Matrix: Water Lab File ID: S4794.D

Analysis Method: 8260C Date Collected: 11/04/2015 08:30

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 18:25

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-19 Lab Sample ID: 480-90492-15
 Matrix: Water Lab File ID: S4794.D
 Analysis Method: 8260C Date Collected: 11/04/2015 08:30
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 18:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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)	112		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4794.D
 Lims ID: 480-90492-A-15 Lab Sample ID: 480-90492-15
 Client ID: 4009-19
 Sample Type: Client
 Inject. Date: 16-Nov-2015 18:25:30 ALS Bottle#: 83 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-15
 Misc. Info.: 480-0048379-023
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 16:42:54 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 19:00:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	169682	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	331167	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	291837	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.805	4.810	-0.005	54	199212	28.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	160619	30.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	789382	26.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	215199	26.6	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.741	2.734	0.007	84	6773	1.92	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.139	5.133	0.006	21	4123	0.1433	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4794.D

Injection Date: 16-Nov-2015 18:25:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-15

Lab Sample ID: 480-90492-15

Worklist Smp#: 23

Client ID: 4009-19

Purge Vol: 5.000 mL

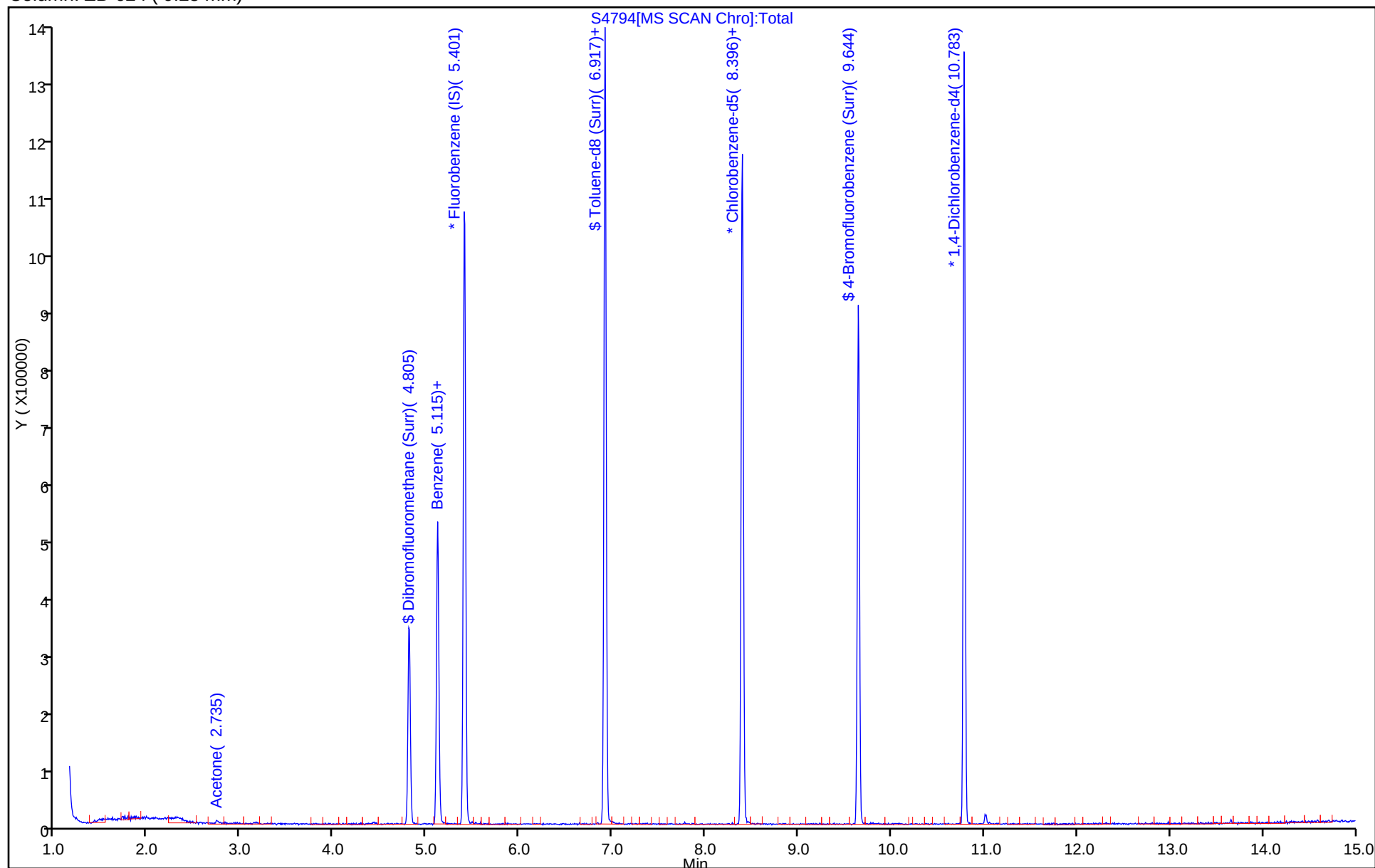
Dil. Factor: 1.0000

ALS Bottle#: 83

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-21</u>	Lab Sample ID: <u>480-90492-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4795.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 08:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 18:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-21</u>	Lab Sample ID: <u>480-90492-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4795.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 08:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 18:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4795.D
 Lims ID: 480-90492-A-16 Lab Sample ID: 480-90492-16
 Client ID: 4009-21
 Sample Type: Client
 Inject. Date: 16-Nov-2015 18:48:30 ALS Bottle#: 84 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-16
 Misc. Info.: 480-0048379-024
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 19:08:56 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 19:08:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	97	173474	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	340703	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	288151	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.810	-0.006	61	195566	27.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	155518	28.9	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	813601	26.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.644	0.006	85	211827	25.4	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.741	2.734	0.007	76	5380	1.49	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	93	320941	10.9	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.978	6.984	-0.006	54	2391	0.1305	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4795.D

Injection Date: 16-Nov-2015 18:48:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-16

Lab Sample ID: 480-90492-16

Worklist Smp#: 24

Client ID: 4009-21

Purge Vol: 5.000 mL

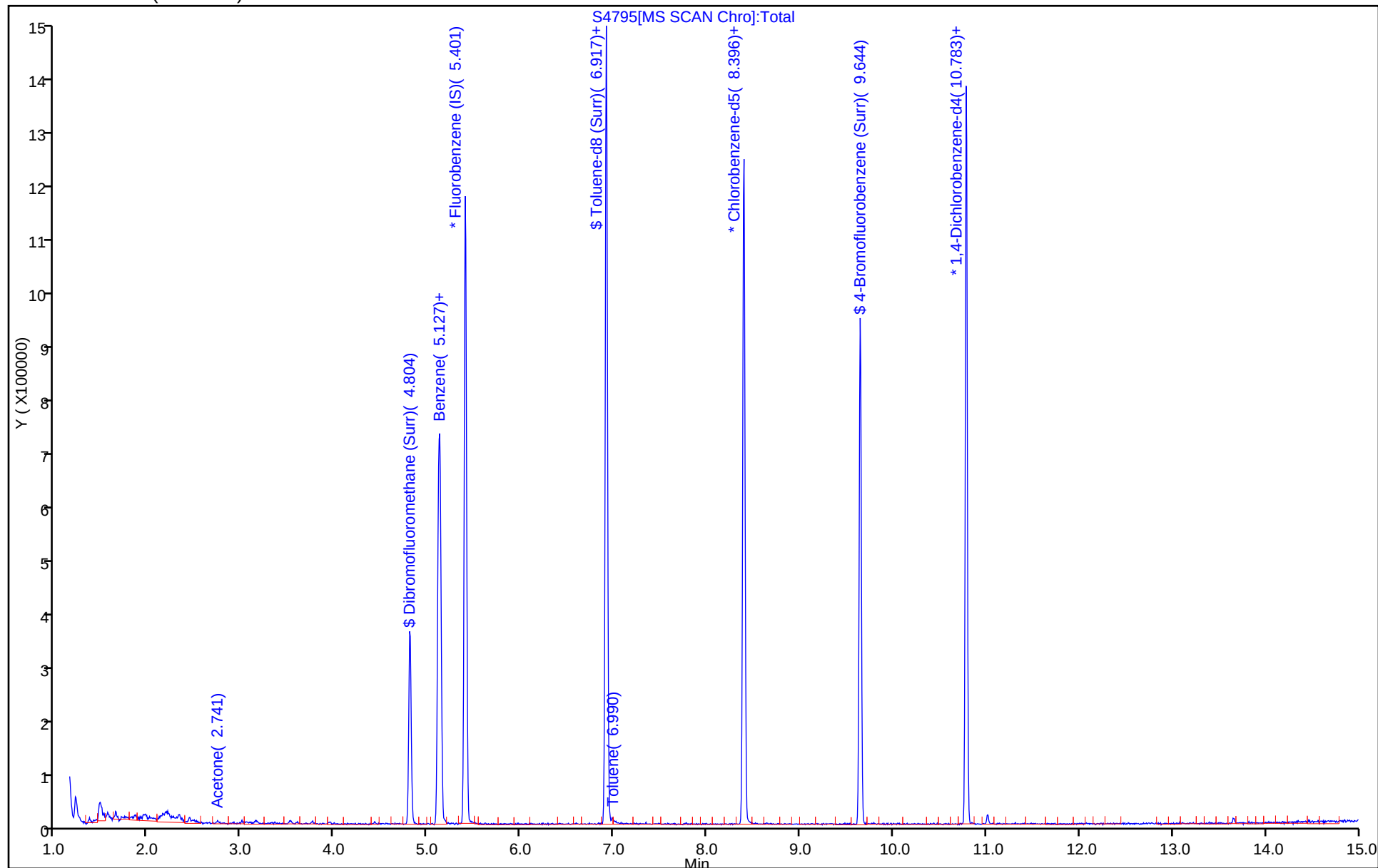
Dil. Factor: 1.0000

ALS Bottle#: 84

Method: S-8260

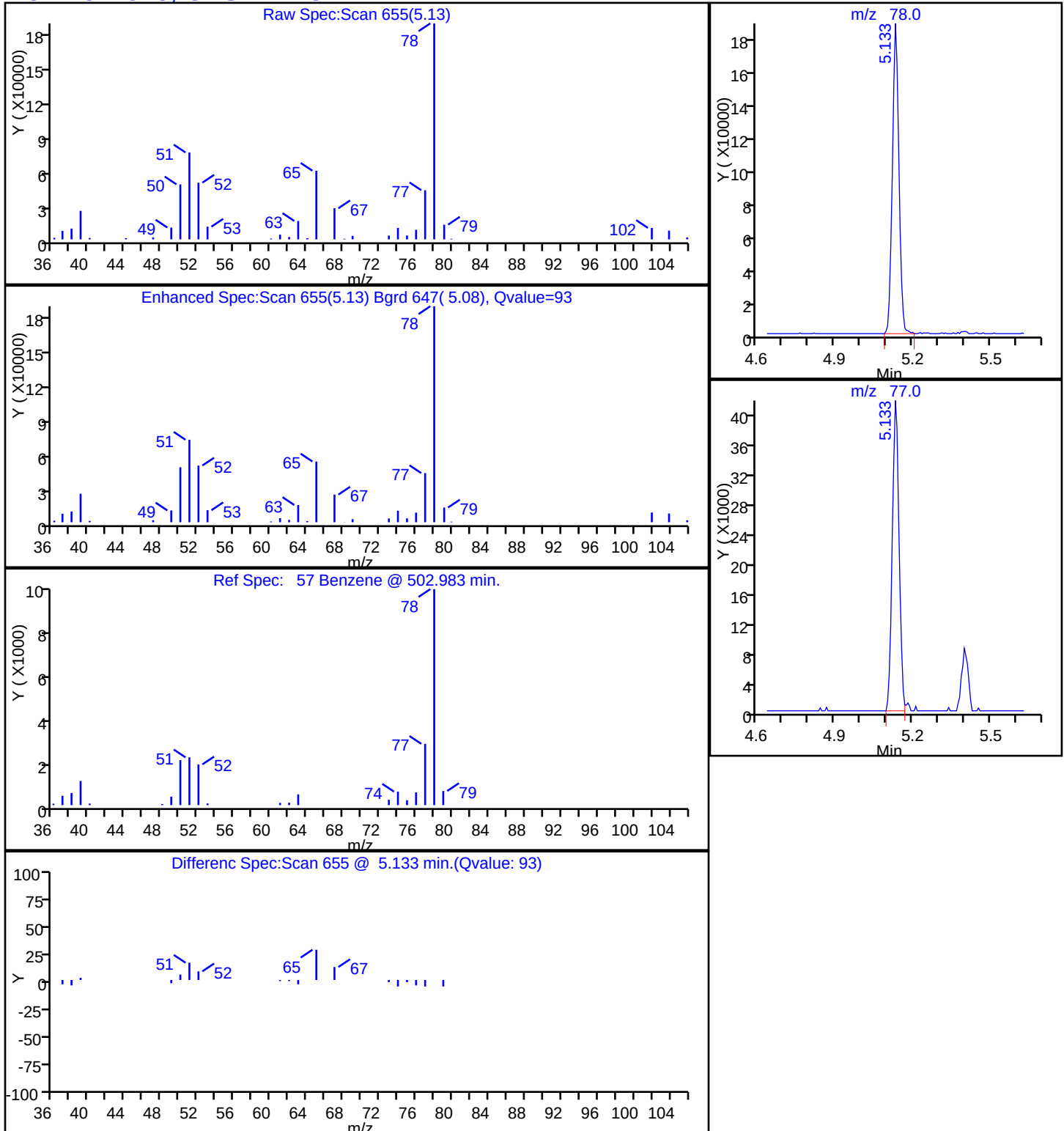
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4795.D
Injection Date: 16-Nov-2015 18:48:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-16 Lab Sample ID: 480-90492-16
Client ID: 4009-21
Operator ID: GTG ALS Bottle#: 84 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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-22</u>	Lab Sample ID: <u>480-90492-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4796.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 19:10</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	1.2		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-22 Lab Sample ID: 480-90492-17
 Matrix: Water Lab File ID: S4796.D
 Analysis Method: 8260C Date Collected: 11/04/2015 09:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 19:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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	0.81	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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4796.D
 Lims ID: 480-90492-A-17 Lab Sample ID: 480-90492-17
 Client ID: 4009-22
 Sample Type: Client
 Inject. Date: 16-Nov-2015 19:10:30 ALS Bottle#: 85 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-17
 Misc. Info.: 480-0048379-025
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 19:28:16 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 19:28:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	97	187874	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	368126	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	96	326959	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	57	202989	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	164403	28.2	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	851265	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	240732	26.8	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.655				ND	
23 Acetone	43	2.734	2.734	0.000	60	6843	1.75	M
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.780				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	79	38511	1.21	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.984	6.984	0.000	77	16125	0.8145	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43	7.672	7.672	0.006	63	4361	0.5638	M
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4796.D

Injection Date: 16-Nov-2015 19:10:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-17

Lab Sample ID: 480-90492-17

Worklist Smp#: 25

Client ID: 4009-22

Purge Vol: 5.000 mL

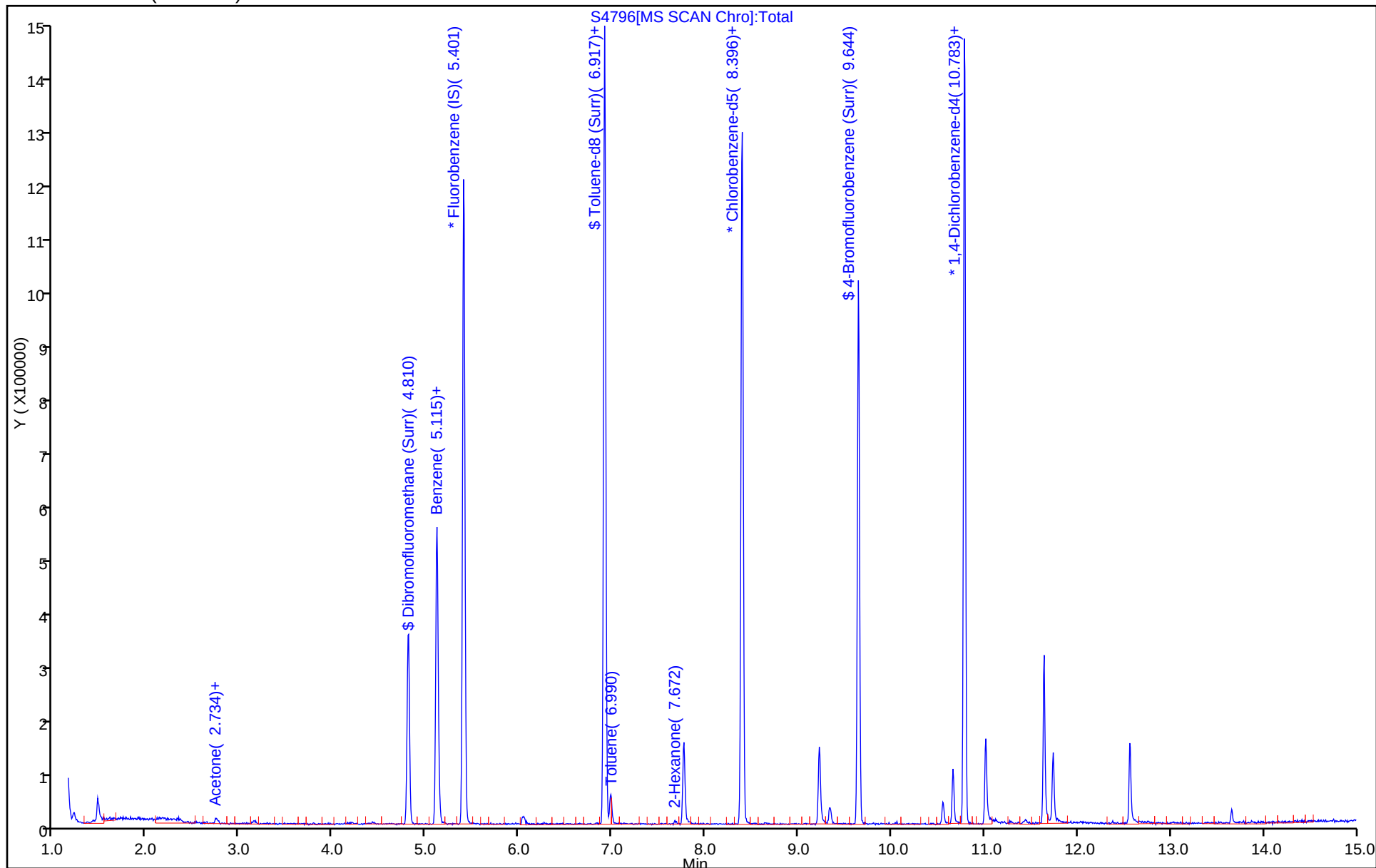
Dil. Factor: 1.0000

ALS Bottle#: 85

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4796.D

Injection Date: 16-Nov-2015 19:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-17

Lab Sample ID: 480-90492-17

Client ID: 4009-22

Operator ID: GTG

ALS Bottle#: 85

Worklist Smp#: 25

Purge Vol: 5.000 mL

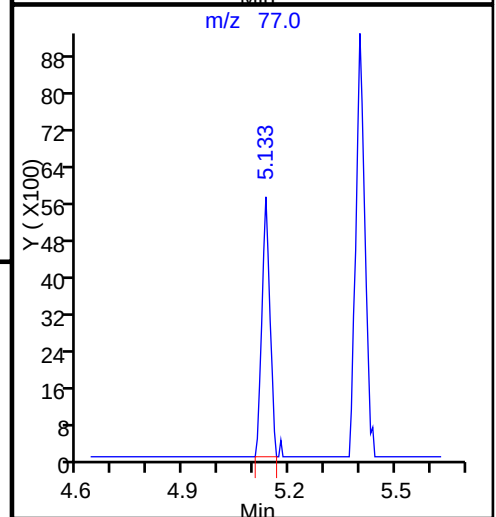
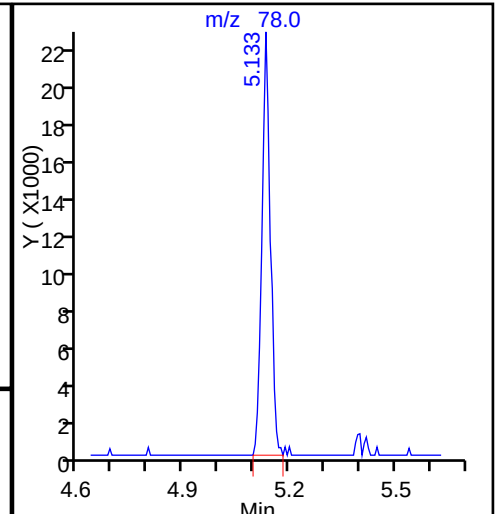
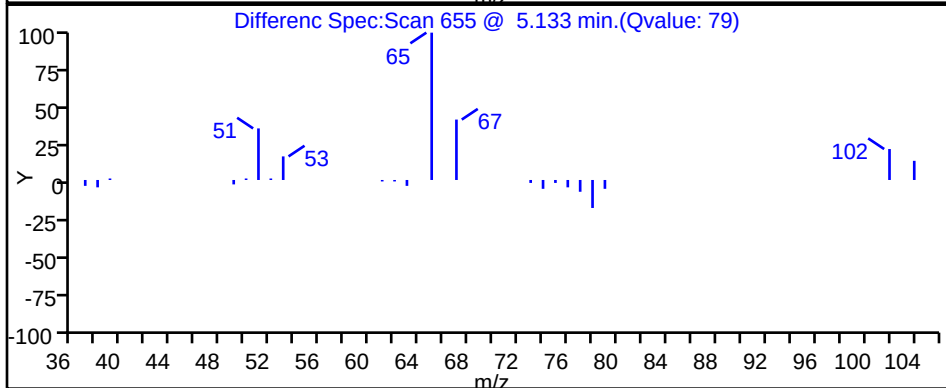
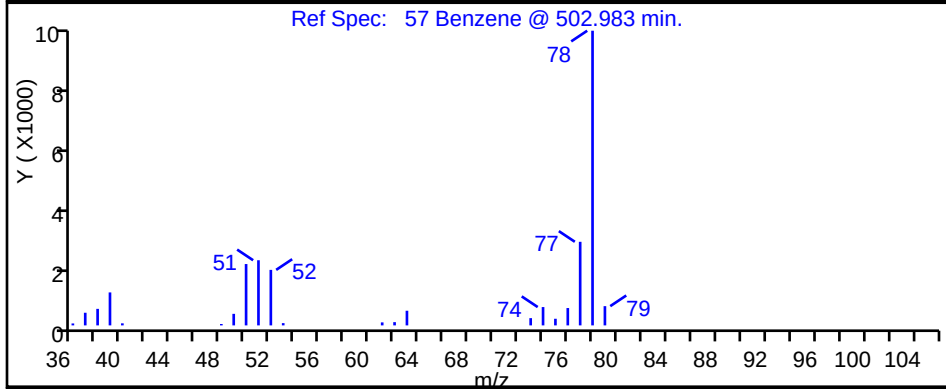
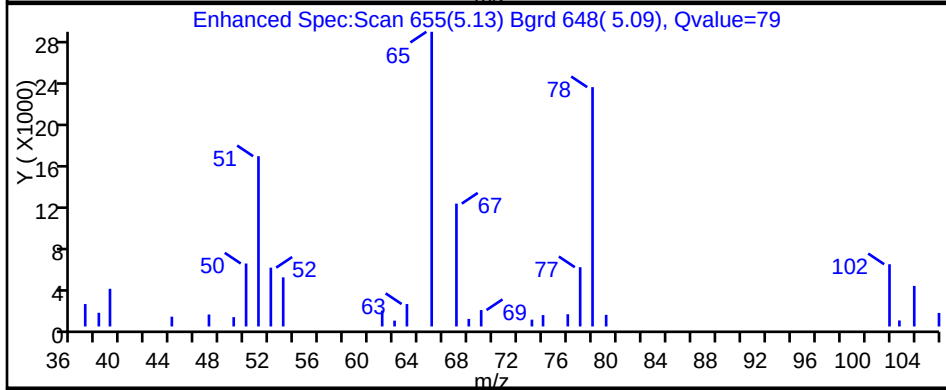
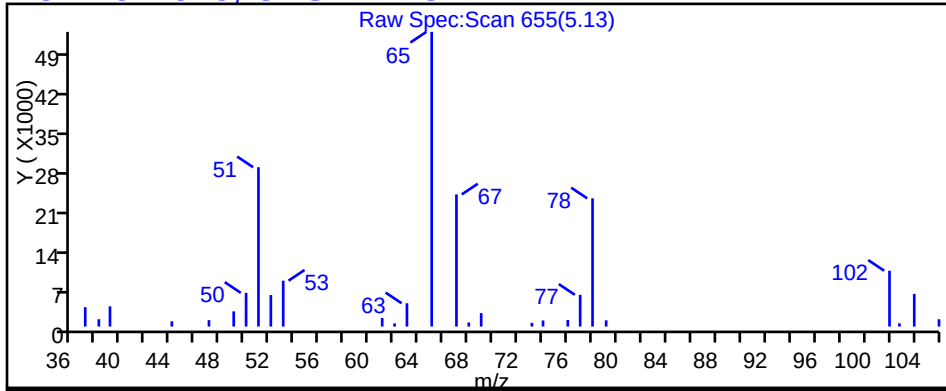
Dil. Factor: 1.0000

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\20151116-48379.b\S4796.D

Injection Date: 16-Nov-2015 19:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-17

Lab Sample ID: 480-90492-17

Client ID: 4009-22

Operator ID: GTG

ALS Bottle#: 85

Worklist Smp#: 25

Purge Vol: 5.000 mL

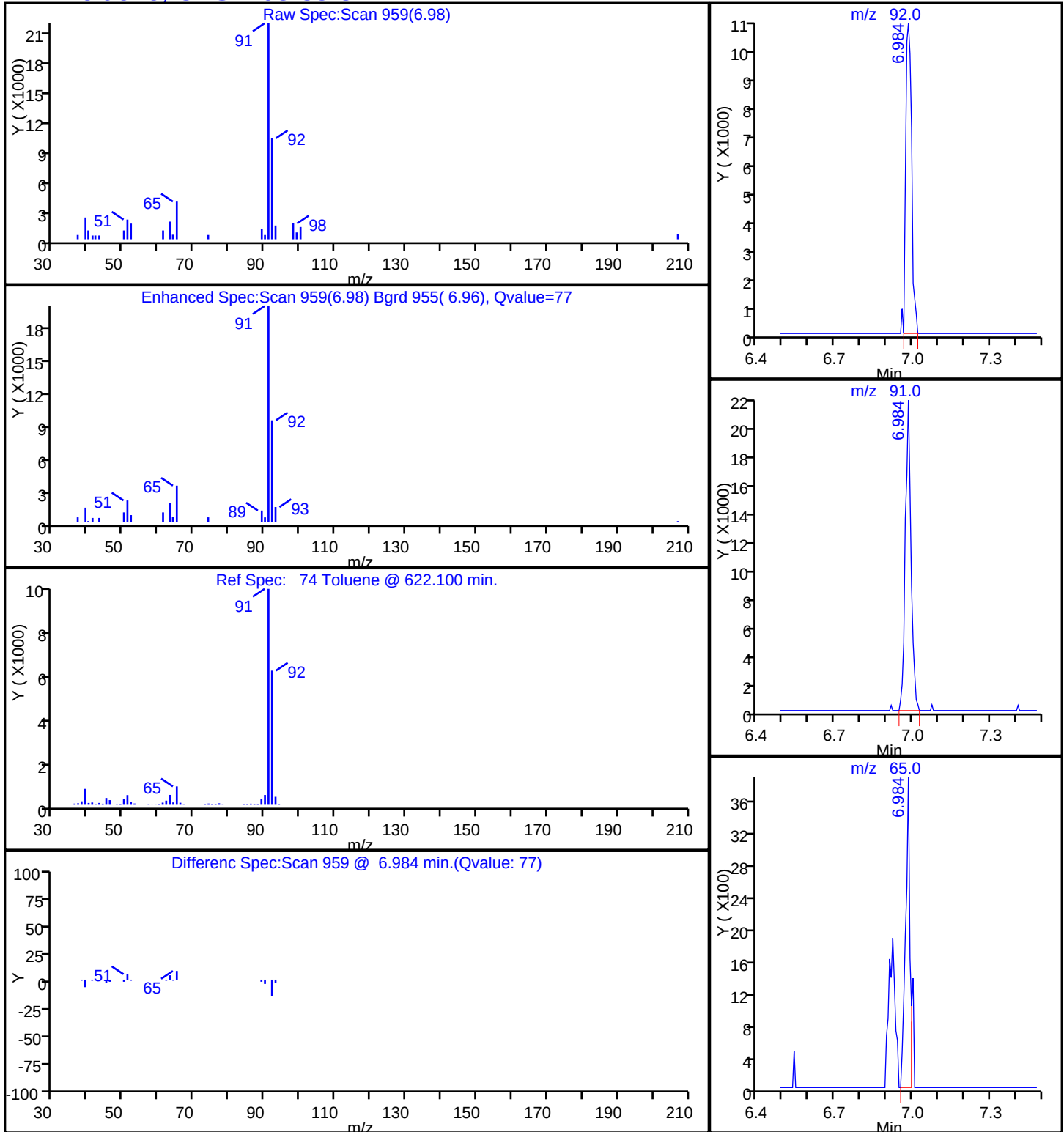
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

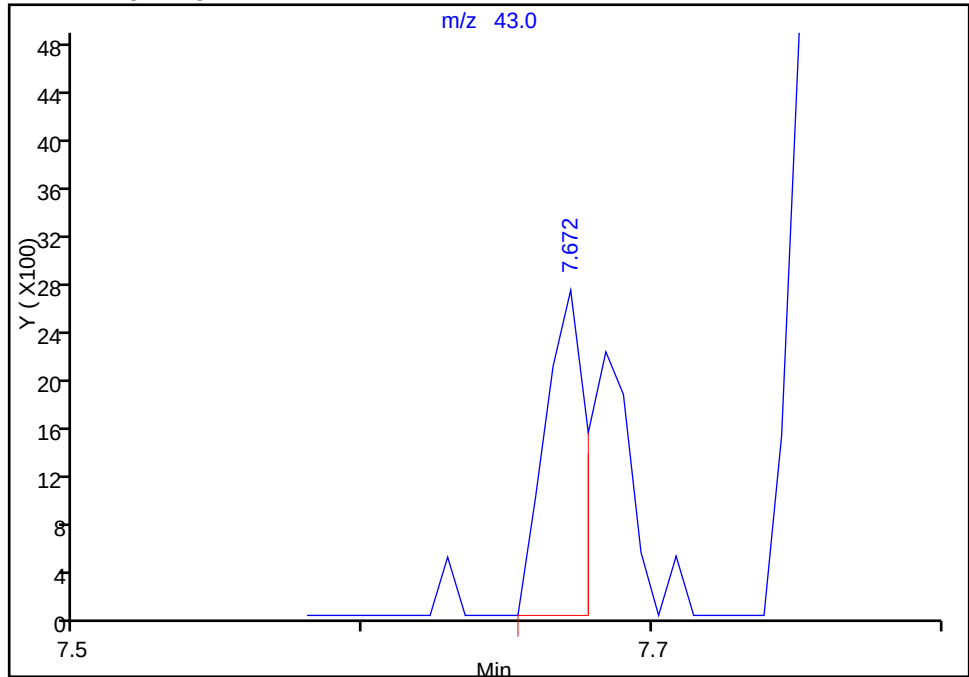
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4796.D
Injection Date: 16-Nov-2015 19:10:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-17 Lab Sample ID: 480-90492-17
Client ID: 4009-22
Operator ID: GTG ALS Bottle#: 85 Worklist Smp#: 25
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

80 2-Hexanone, CAS: 591-78-6

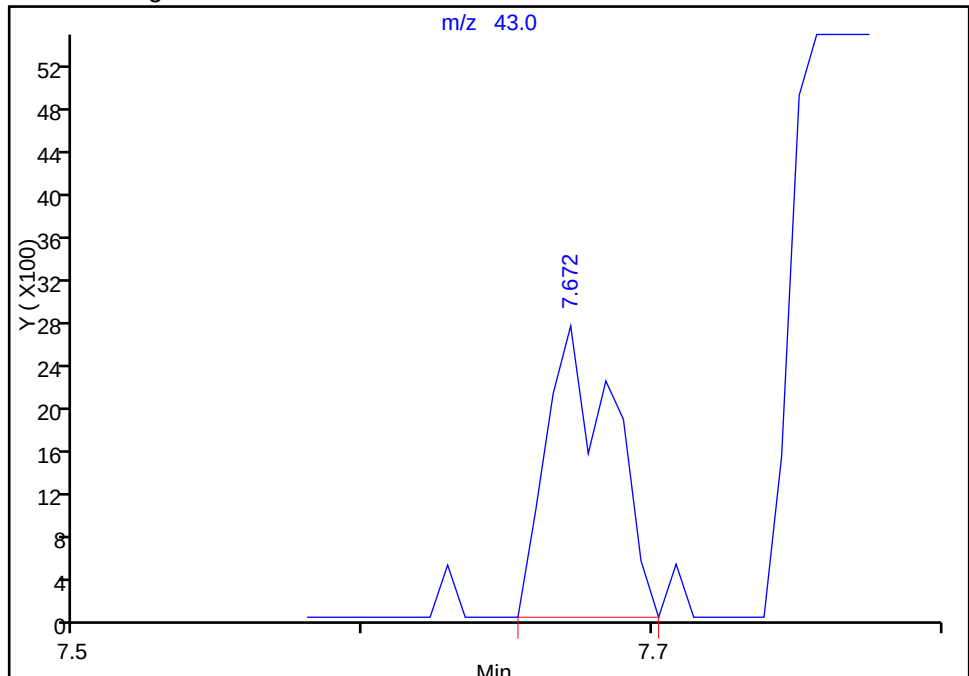
RT: 7.67
Area: 2683
Amount: 0.346843
Amount Units: ug/L

Processing Integration Results



RT: 7.67
Area: 4361
Amount: 0.563766
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 16-Nov-2015 19:28:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

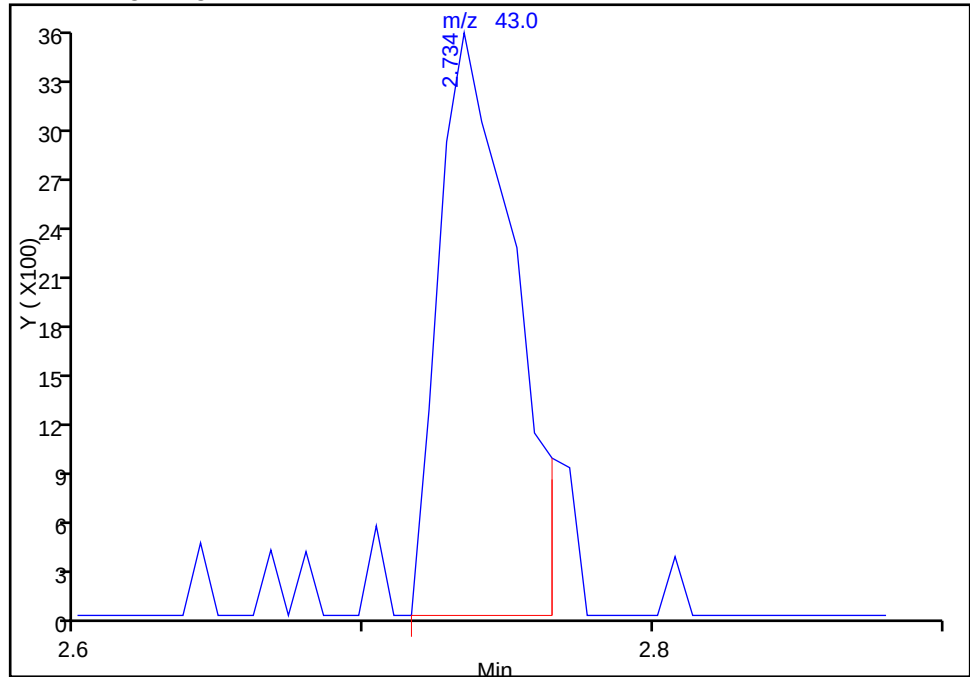
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4796.D
Injection Date: 16-Nov-2015 19:10:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-17 Lab Sample ID: 480-90492-17
Client ID: 4009-22
Operator ID: GTG ALS Bottle#: 85 Worklist Smp#: 25
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

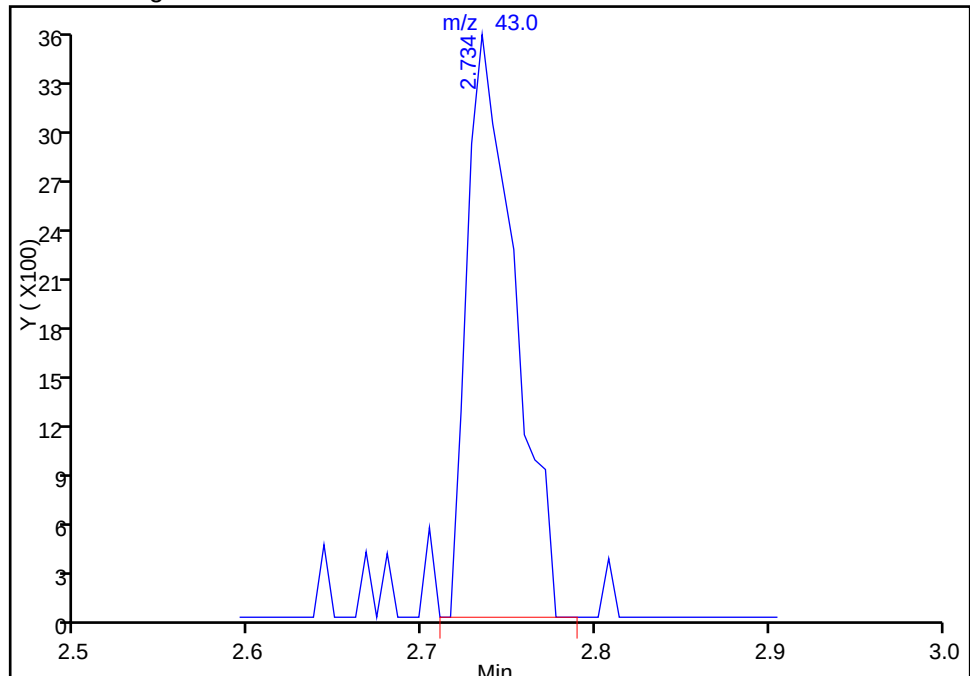
RT: 2.73
Area: 6511
Amount: 1.667456
Amount Units: ug/L

Processing Integration Results



RT: 2.73
Area: 6843
Amount: 1.752481
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 16-Nov-2015 19:28:16
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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27S</u>	Lab Sample ID: <u>480-90492-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4797.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 19:33</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</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	3.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	2.4		1.0	0.38
75-35-4	1,1-Dichloroethene	7.0		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	21		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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-27S Lab Sample ID: 480-90492-18

Matrix: Water Lab File ID: S4797.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:45

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 19:33

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 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	25		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)	109		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		60-140
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D
 Lims ID: 480-90492-A-18 Lab Sample ID: 480-90492-18
 Client ID: 4009-27S
 Sample Type: Client
 Inject. Date: 16-Nov-2015 19:33:30 ALS Bottle#: 86 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-18
 Misc. Info.: 480-0048379-026
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 20:38:51 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 20:38:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	96	176282	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	340907	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	96	297043	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	59	218786	29.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	161818	29.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	832952	27.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	220810	26.5	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.505				ND	
14 Bromomethane	94		1.797				ND	
15 Chloroethane	64		1.906				ND	
17 Trichlorofluoromethane	101		2.138				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	23	23852	3.50	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	80	47133	7.03	
23 Acetone	43	2.735	2.735	0.001	77	6052	1.65	M
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.380				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	70	39510	2.40	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	164299	21.3	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83	4.658	4.652	0.006	28	2876	0.2180	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	88	539169	61.0	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62	5.182	5.188	-0.006	1	2632	0.1859	
62 Trichloroethene	95	5.748	5.748	0.000	91	180950	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D

Injection Date: 16-Nov-2015 19:33:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-18

Lab Sample ID: 480-90492-18

Worklist Smp#: 26

Client ID: 4009-27S

Purge Vol: 5.000 mL

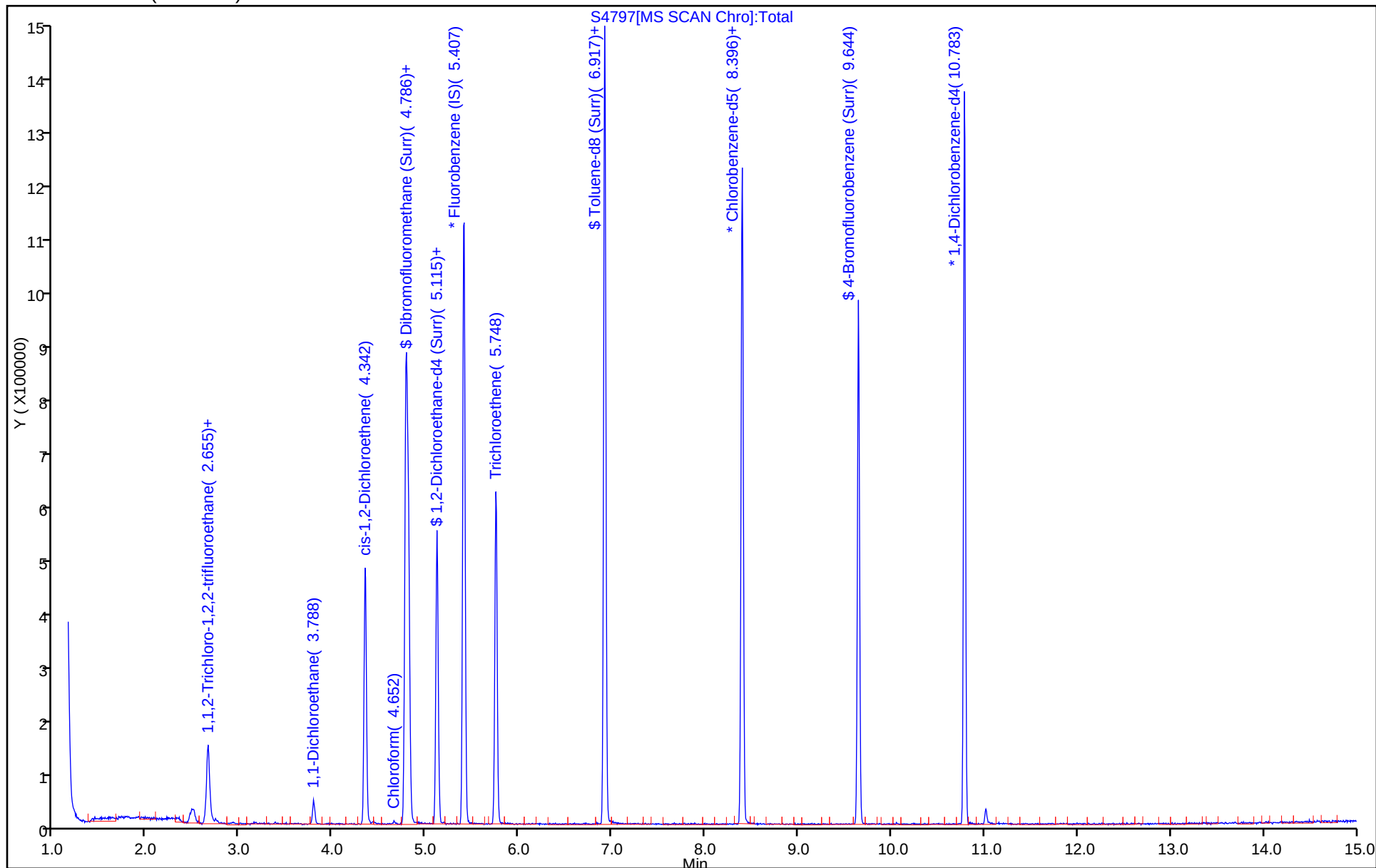
Dil. Factor: 1.0000

ALS Bottle#: 86

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D

Injection Date: 16-Nov-2015 19:33:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-18

Lab Sample ID: 480-90492-18

Client ID: 4009-27S

Operator ID: GTG

ALS Bottle#: 86

Worklist Smp#: 26

Purge Vol: 5.000 mL

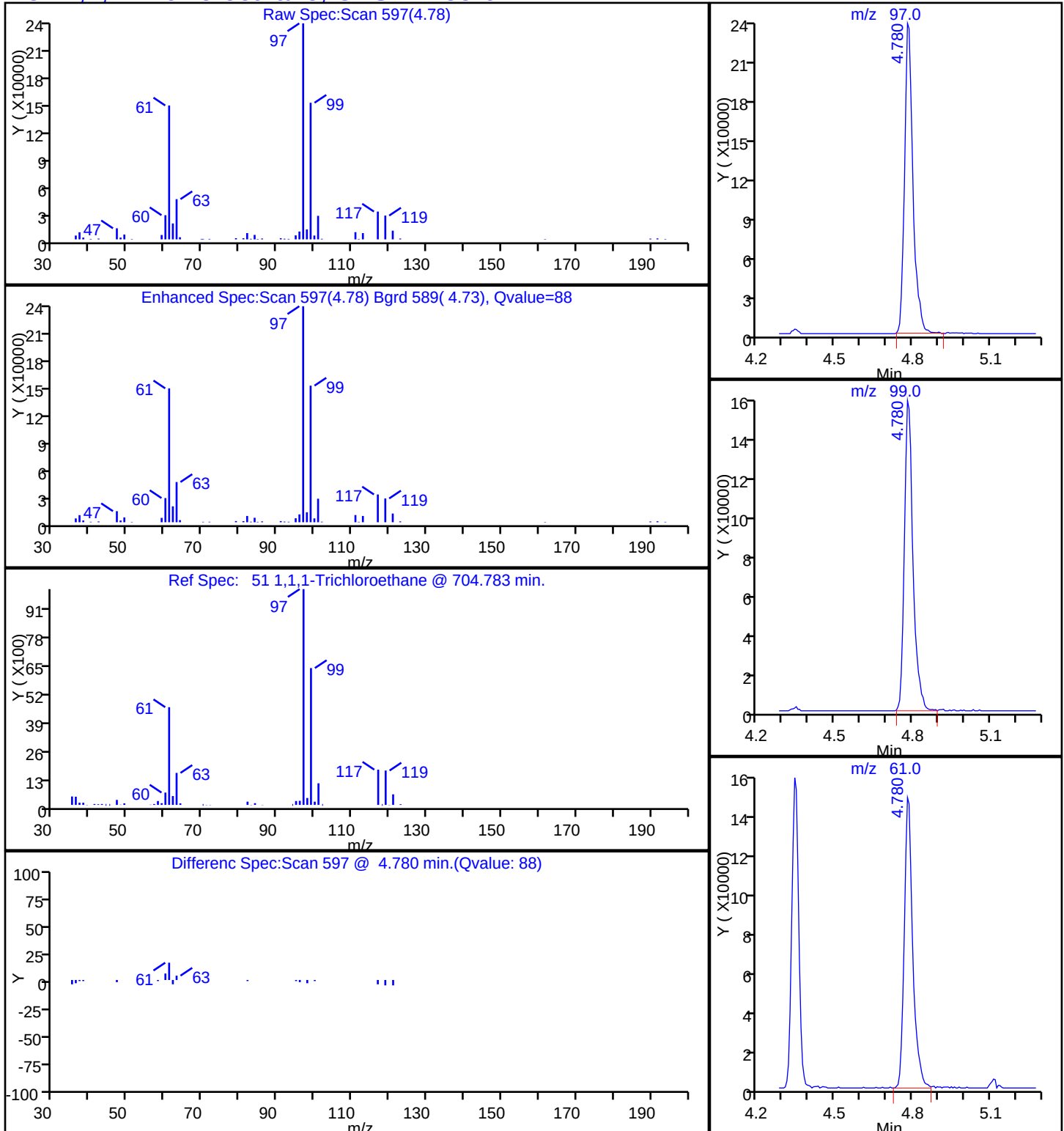
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

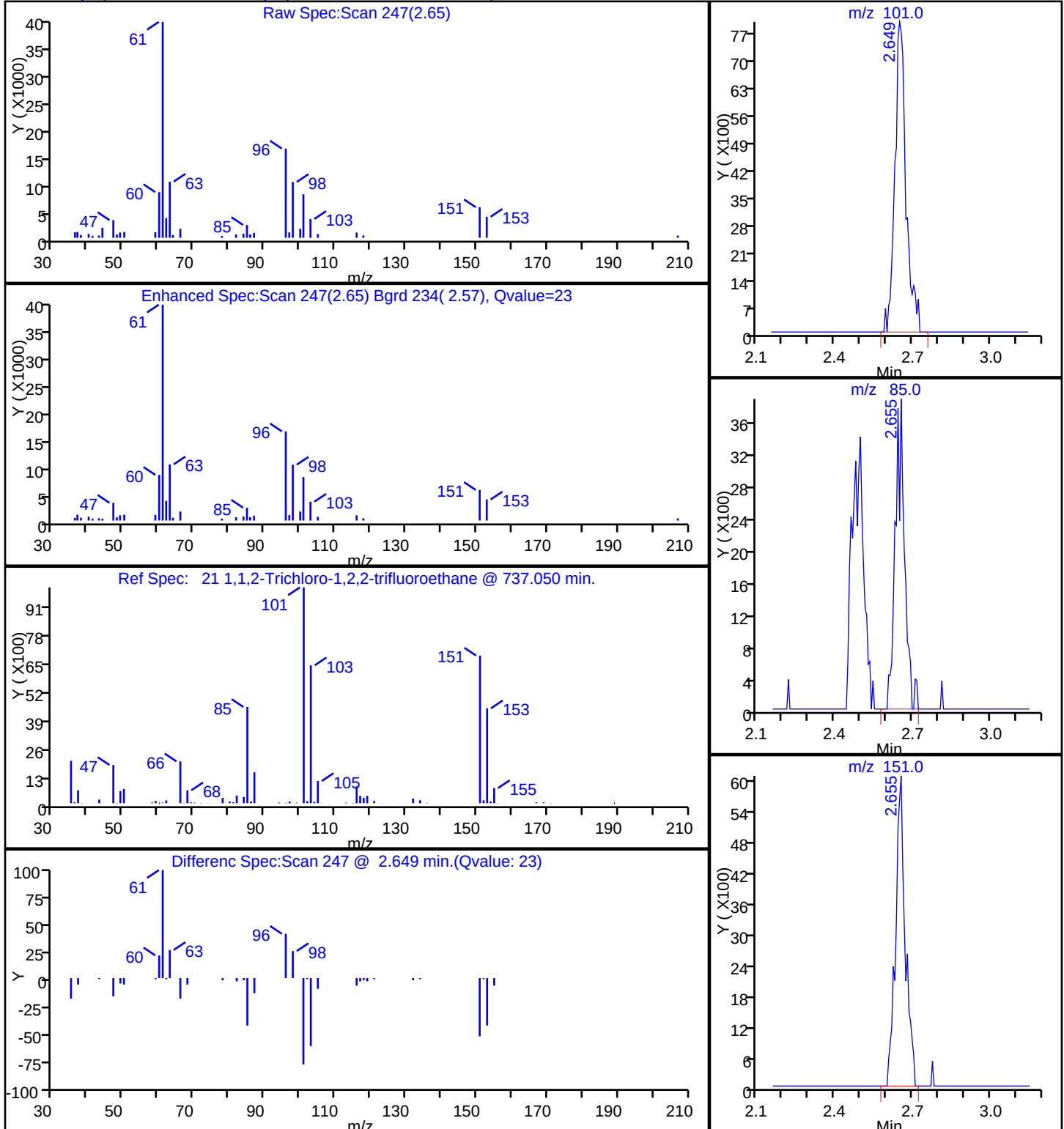
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

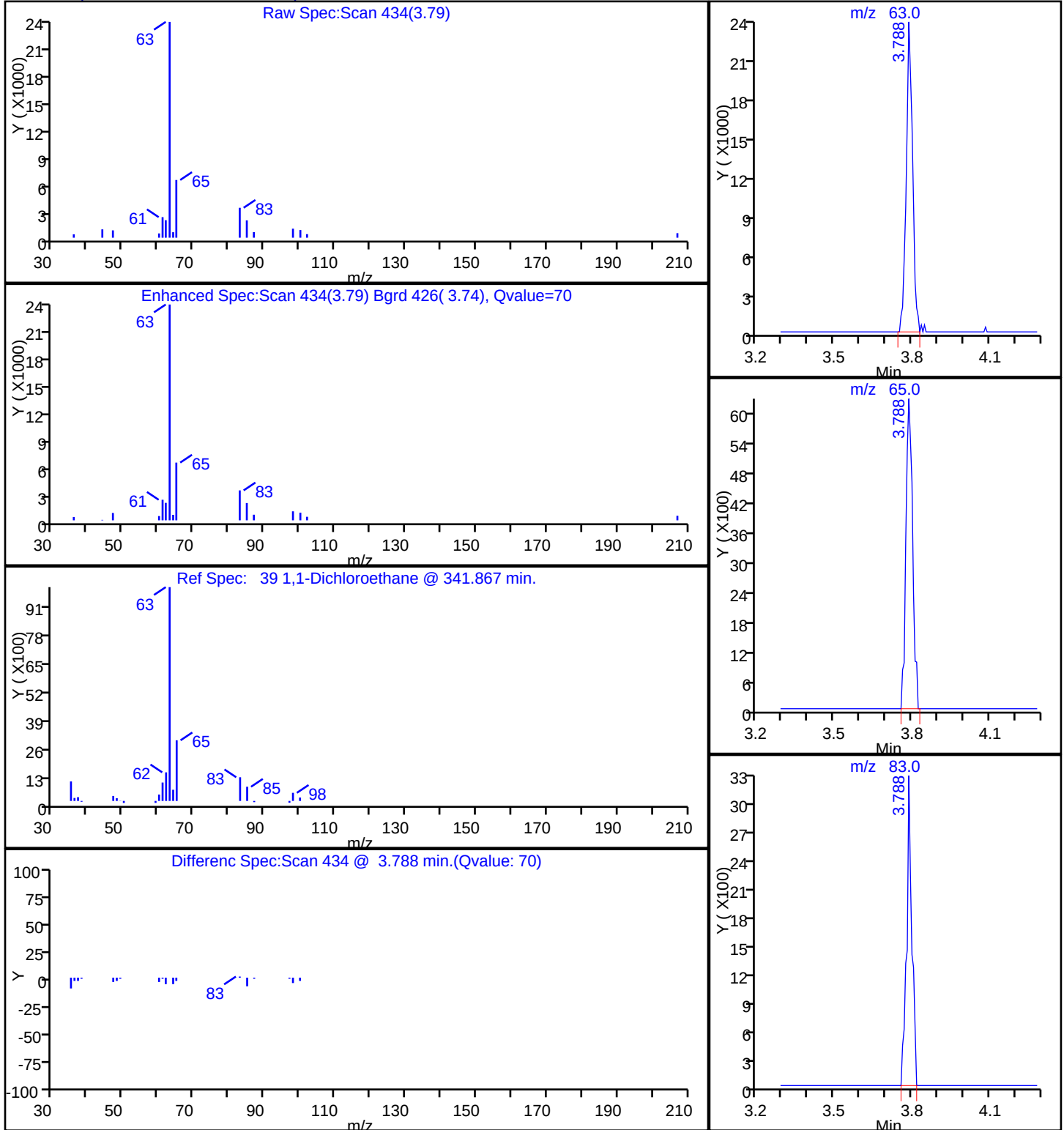
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D
Injection Date: 16-Nov-2015 19:33:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-18 Lab Sample ID: 480-90492-18
Client ID: 4009-27S
Operator ID: GTG ALS Bottle#: 86 Worklist Smp#: 26
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

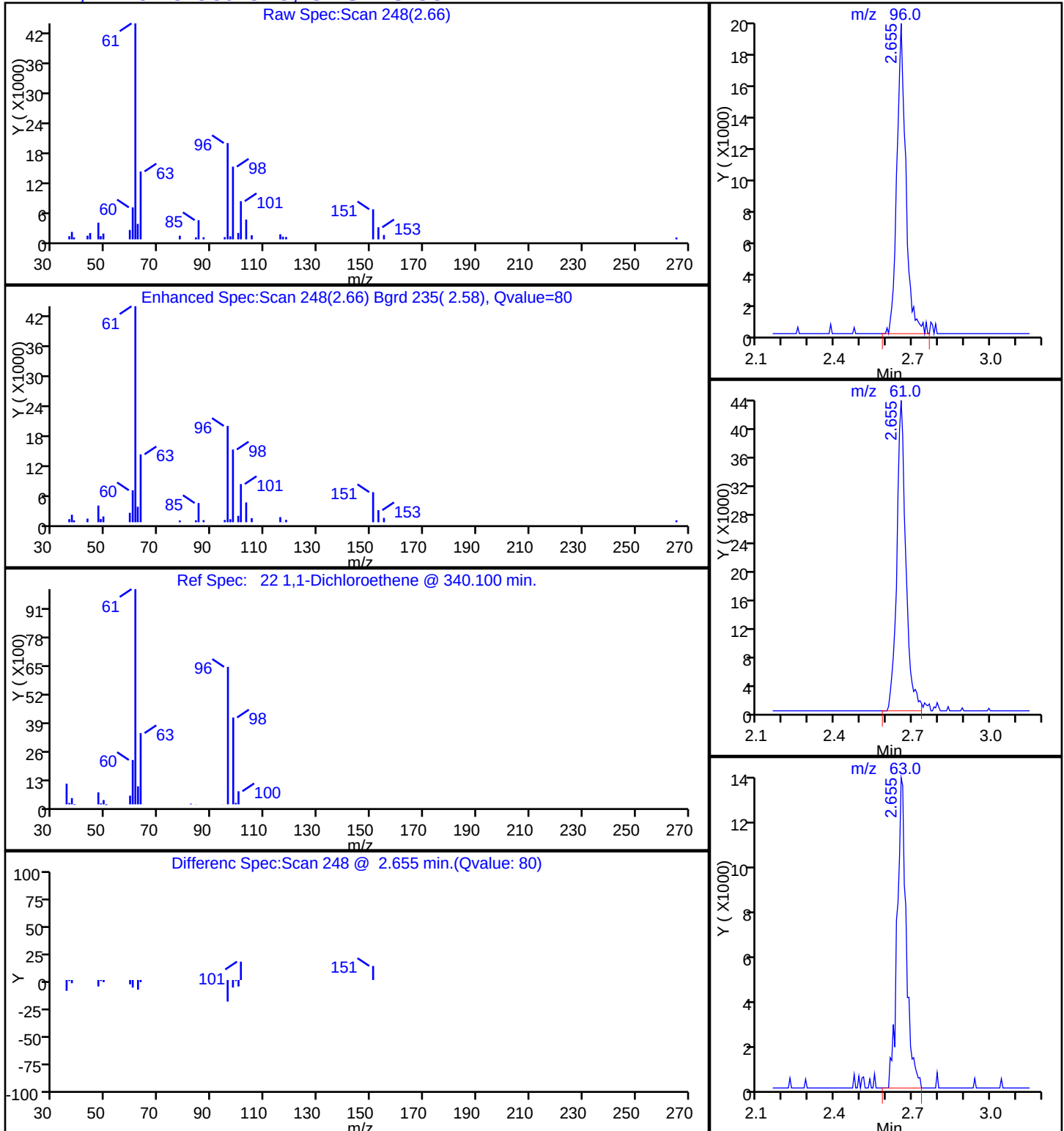
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D
Injection Date: 16-Nov-2015 19:33:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-18 Lab Sample ID: 480-90492-18
Client ID: 4009-27S
Operator ID: GTG ALS Bottle#: 86 Worklist Smp#: 26
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

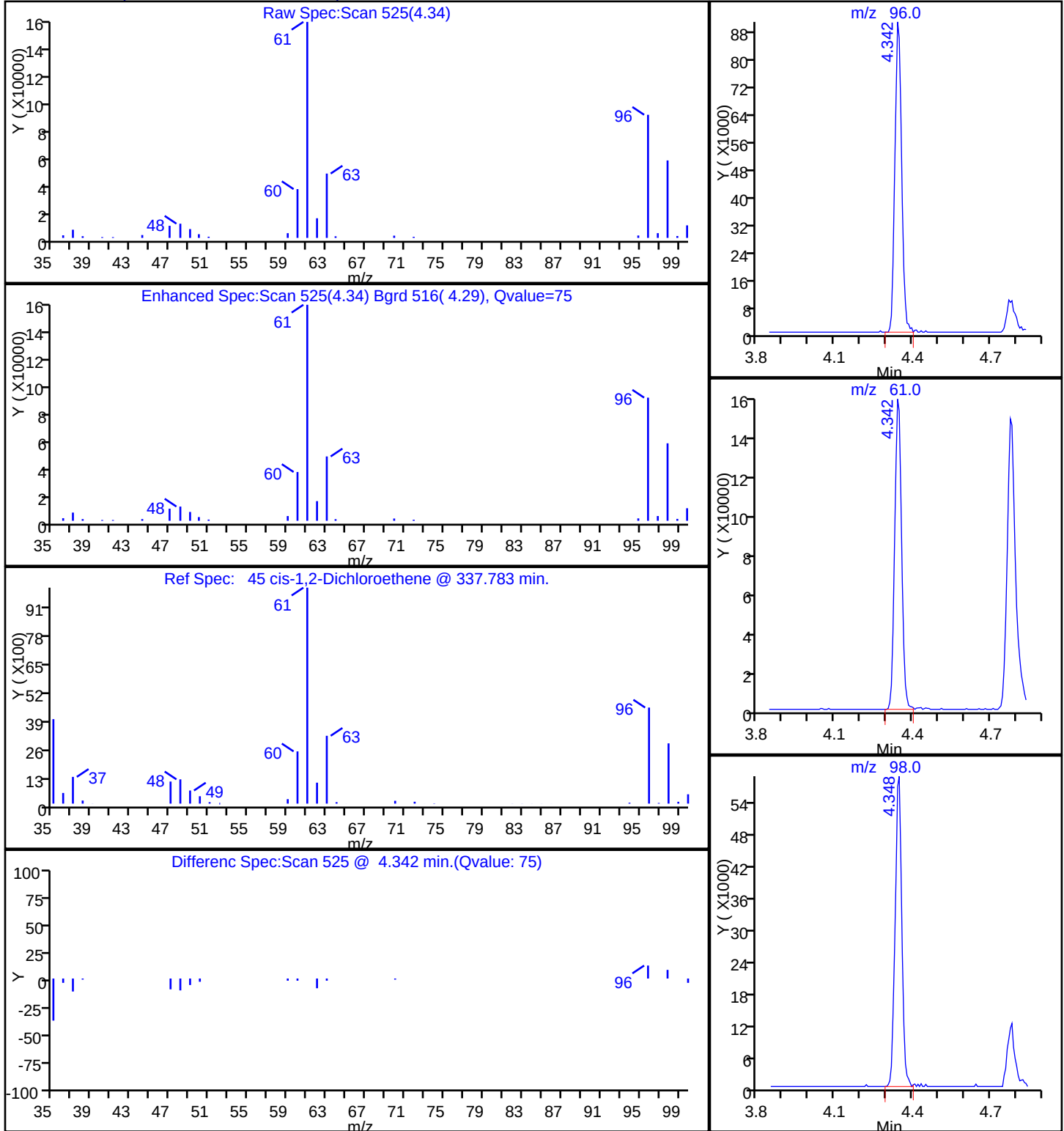
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D
Injection Date: 16-Nov-2015 19:33:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-18 Lab Sample ID: 480-90492-18
Client ID: 4009-27S
Operator ID: GTG ALS Bottle#: 86 Worklist Smp#: 26
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

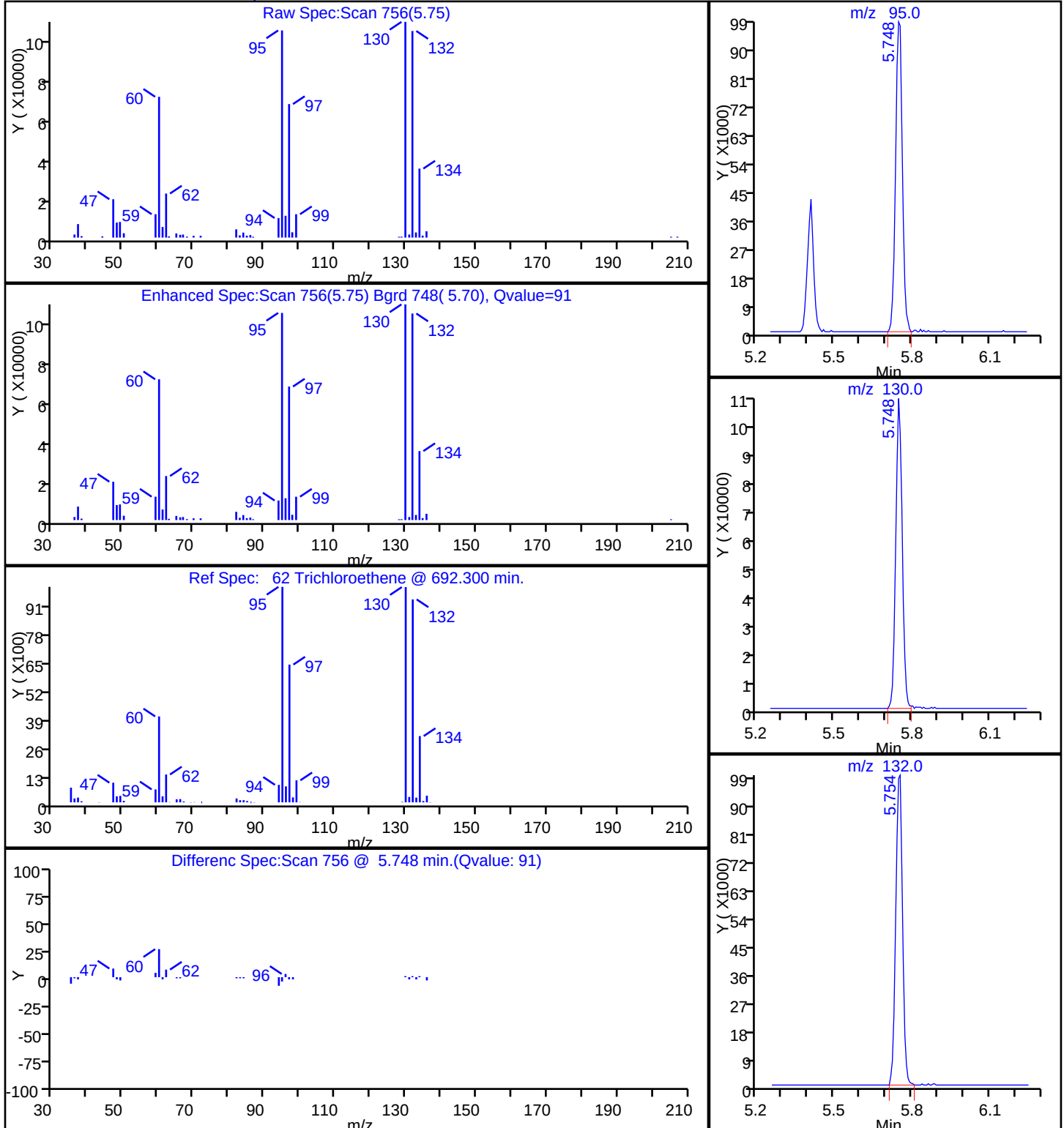
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D
Injection Date: 16-Nov-2015 19:33:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-18 Lab Sample ID: 480-90492-18
Client ID: 4009-27S
Operator ID: GTG ALS Bottle#: 86 Worklist Smp#: 26
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\20151116-48379.b\S4797.D
Injection Date: 16-Nov-2015 19:33:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-18 Lab Sample ID: 480-90492-18
Client ID: 4009-27S
Operator ID: GTG ALS Bottle#: 86 Worklist Smp#: 26
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

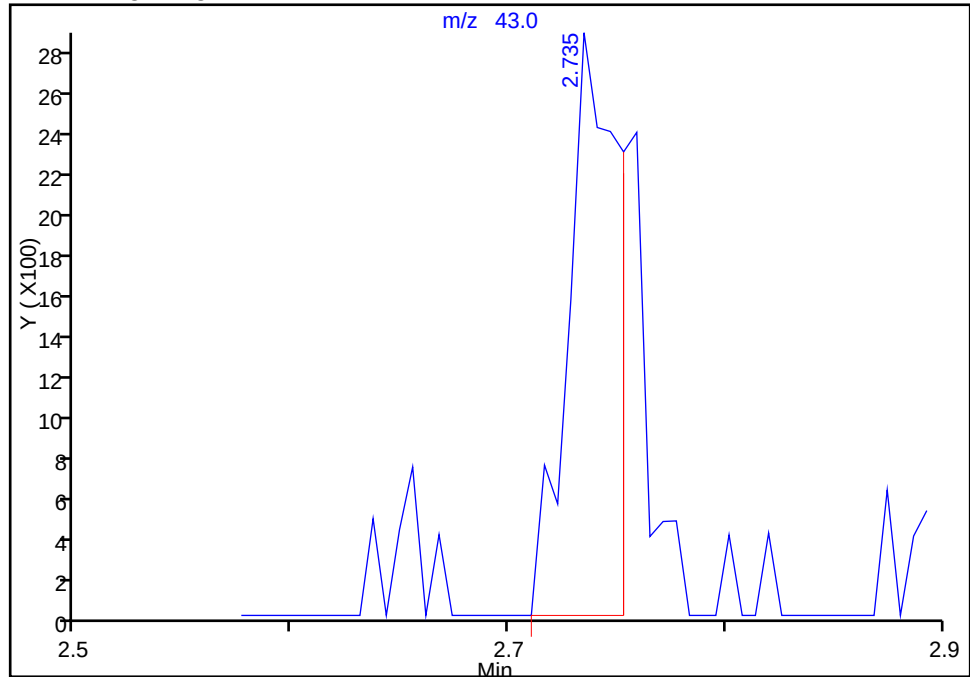
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4797.D		
Injection Date:	16-Nov-2015 19:33:30	Instrument ID:	HP5973S
Lims ID:	480-90492-A-18	Lab Sample ID:	480-90492-18
Client ID:	4009-27S		
Operator ID:	GTG	ALS Bottle#:	86
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
		Worklist Smp#:	26

23 Acetone, CAS: 67-64-1

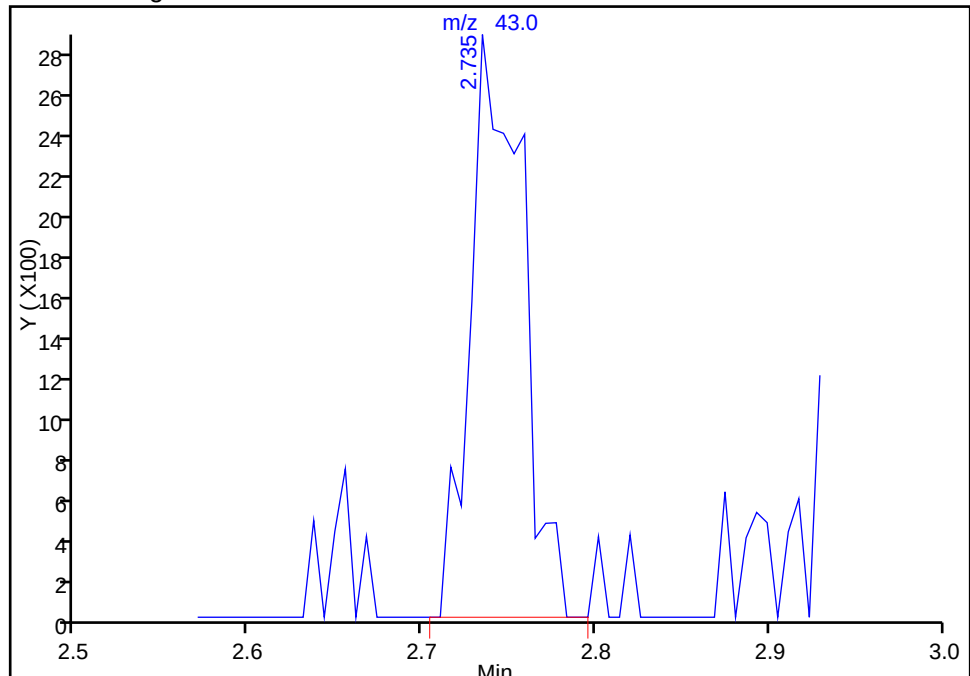
RT: 2.73
Area: 4695
Amount: 1.281448
Amount Units: ug/L

Processing Integration Results



RT: 2.73
Area: 6052
Amount: 1.651826
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 16-Nov-2015 20:38:51
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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I</u>	Lab Sample ID: <u>480-90492-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4810.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 01:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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	0.61	J	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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I</u>	Lab Sample ID: <u>480-90492-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4810.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 01:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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)	107		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4810.D
 Lims ID: 480-90492-A-19 Lab Sample ID: 480-90492-19
 Client ID: 4009-271
 Sample Type: Client
 Inject. Date: 17-Nov-2015 01:05:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-19
 Misc. Info.: 480-0048406-007
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:37:28 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:37:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	96	187657	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	358406	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.783	0.006	96	310138	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	-0.001	54	210929	27.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	168881	29.0	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	869398	27.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	233296	26.6	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.735	2.728	0.006	66	3276	0.8399	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	1	3182	0.3384	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.139	5.133	0.006	71	19479	0.6122	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.742	5.748	-0.006	48	2075	0.2675	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92	6.978	6.978	-0.006	47	3128	0.1623	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4810.D

Injection Date: 17-Nov-2015 01:05:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-19

Lab Sample ID: 480-90492-19

Worklist Smp#: 7

Client ID: 4009-271

Purge Vol: 5.000 mL

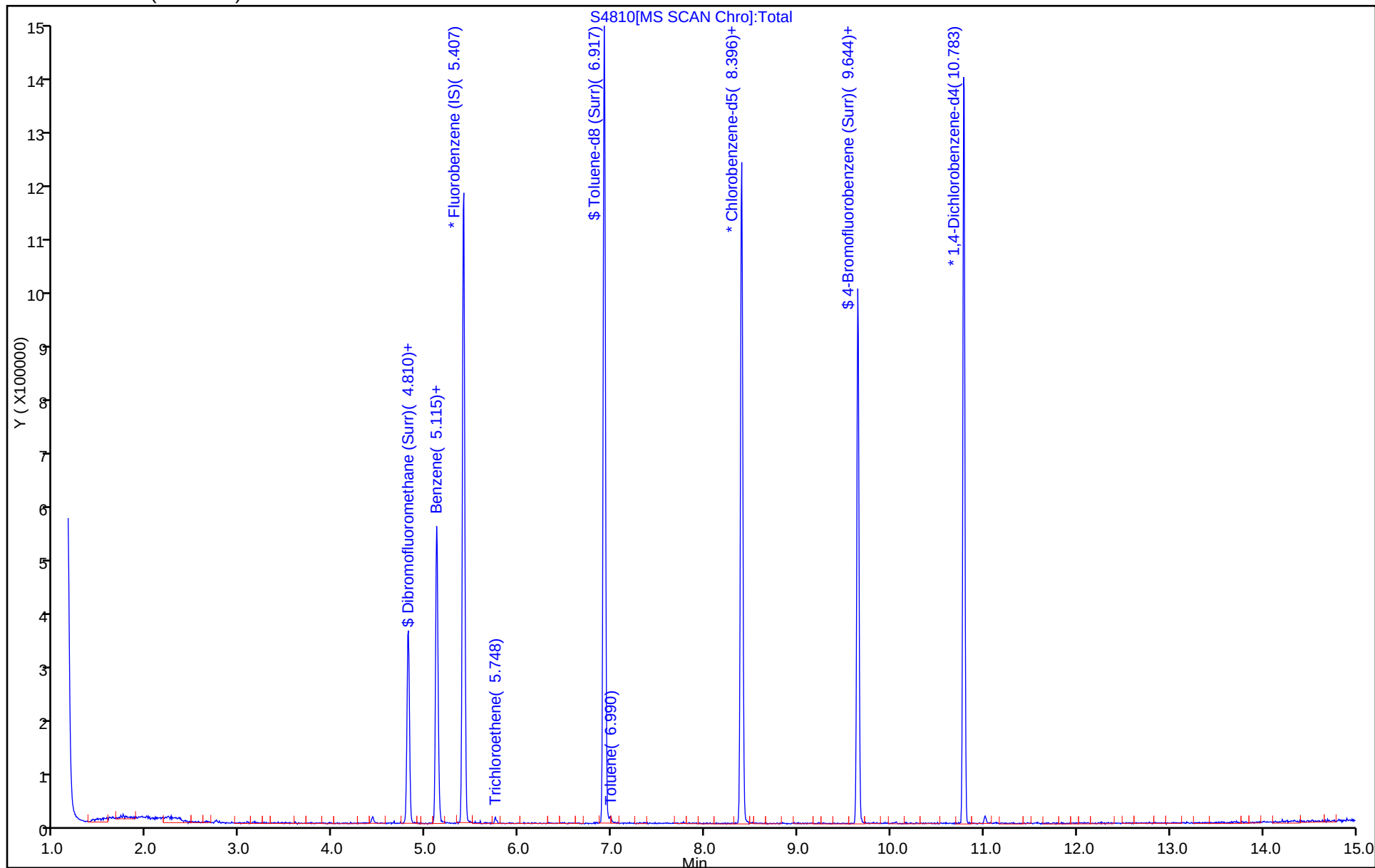
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

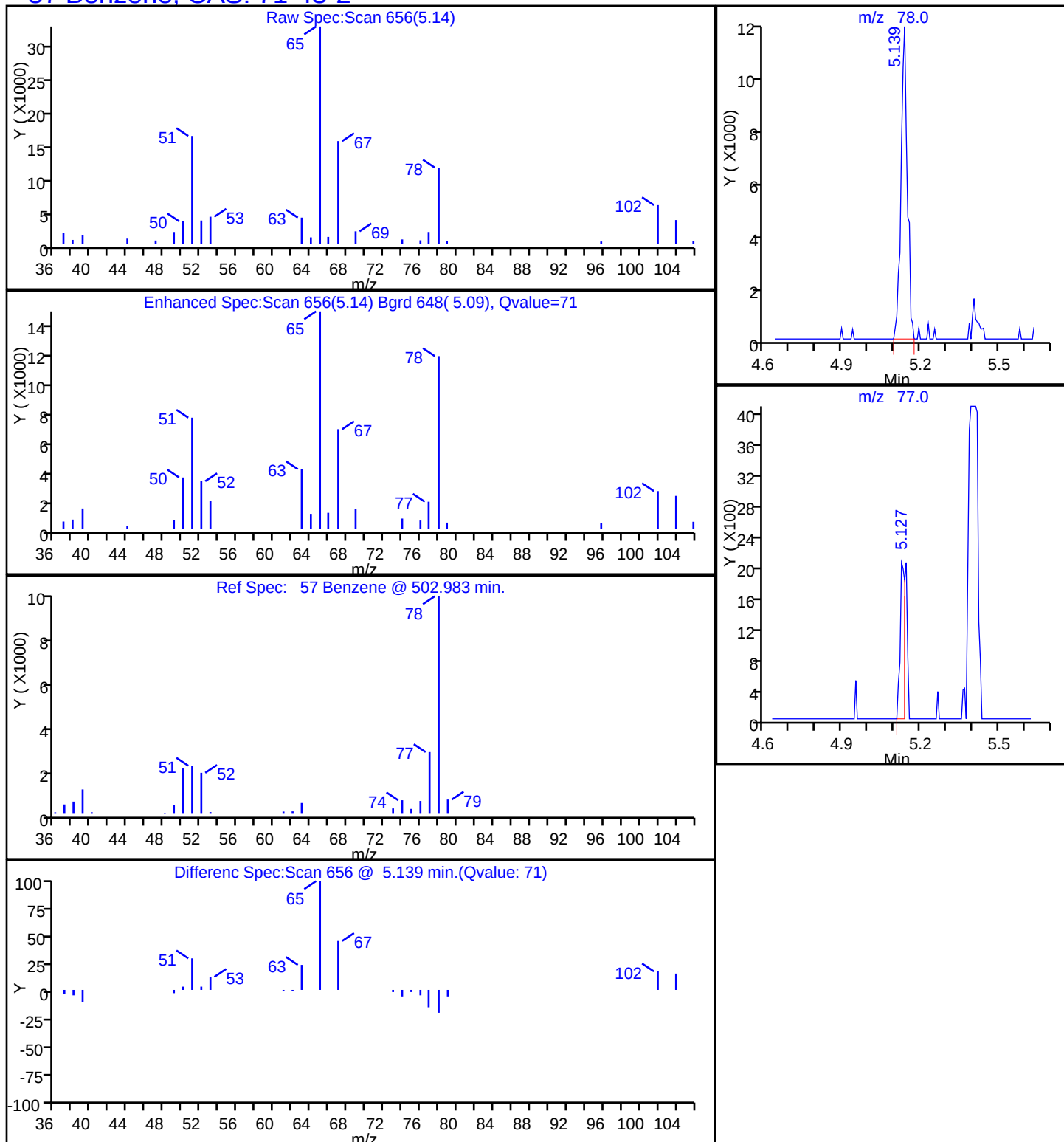
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4810.D
Injection Date: 17-Nov-2015 01:05:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-19 Lab Sample ID: 480-90492-19
Client ID: 4009-271
Operator ID: SO ALS Bottle#: 7 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

57 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27D</u>	Lab Sample ID: <u>480-90492-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4811.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 01:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-27D Lab Sample ID: 480-90492-20

Matrix: Water Lab File ID: S4811.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:55

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 01:28

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4811.D
 Lims ID: 480-90492-A-20 Lab Sample ID: 480-90492-20
 Client ID: 4009-27D
 Sample Type: Client
 Inject. Date: 17-Nov-2015 01:28:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-20
 Misc. Info.: 480-0048406-010
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:38:04 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:38:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	196231	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	367706	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	97	318288	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.805	4.811	-0.006	56	207697	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	164574	27.0	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	862276	26.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	228956	25.5	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.735	2.728	0.007	77	4198	1.03	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4811.D

Injection Date: 17-Nov-2015 01:28:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-20

Lab Sample ID: 480-90492-20

Worklist Smp#: 10

Client ID: 4009-27D

Purge Vol: 5.000 mL

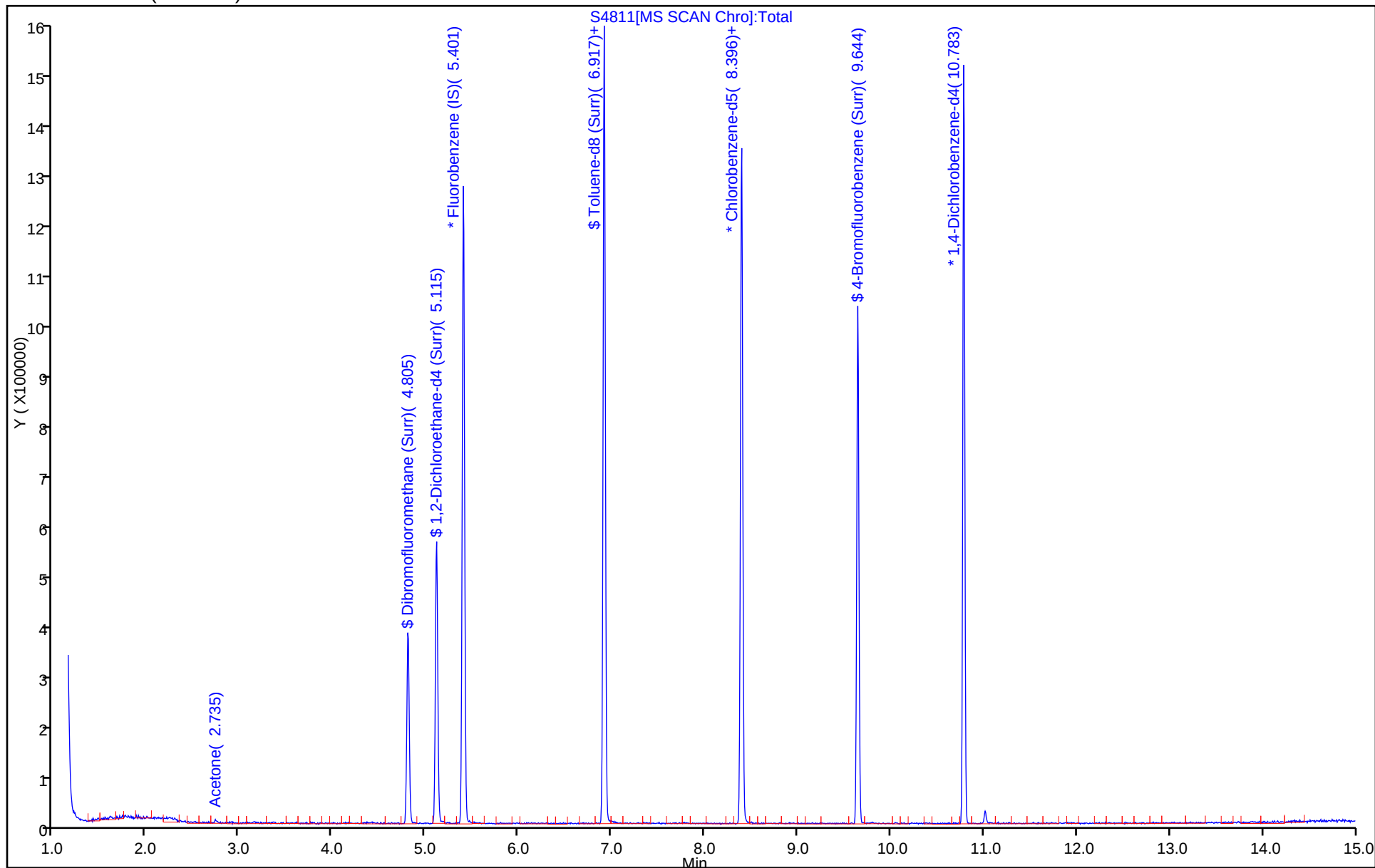
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-28</u>	Lab Sample ID: <u>480-90492-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4812.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 08:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 01:50</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.3		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-28 Lab Sample ID: 480-90492-21
 Matrix: Water Lab File ID: S4812.D
 Analysis Method: 8260C Date Collected: 11/04/2015 08:55
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 01:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275311 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4812.D
 Lims ID: 480-90492-A-21 Lab Sample ID: 480-90492-21
 Client ID: 4009-28
 Sample Type: Client
 Inject. Date: 17-Nov-2015 01:50:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-21
 Misc. Info.: 480-0048406-011
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:39:48 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:39:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	191723	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	357669	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	315224	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.811	-0.007	56	204249	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	163397	27.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	835563	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	225552	25.8	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.741	2.728	0.013	34	6867	1.72	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96	4.348	4.342	0.006	8	1534	0.1833	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	44	21741	2.26	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4812.D

Injection Date: 17-Nov-2015 01:50:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-21

Lab Sample ID: 480-90492-21

Worklist Smp#: 11

Client ID: 4009-28

Purge Vol: 5.000 mL

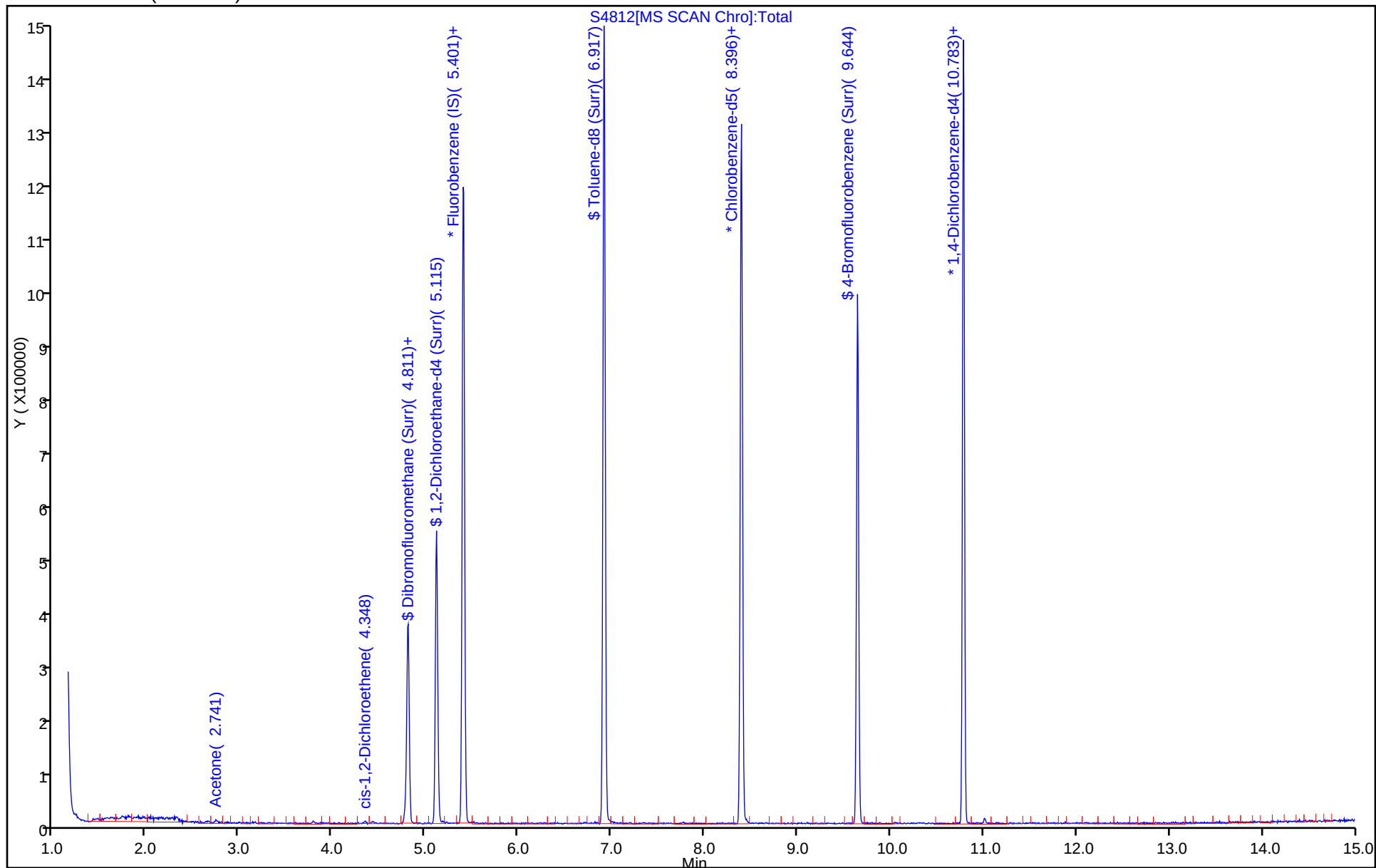
Dil. Factor: 1.0000

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\20151116-48406.b\S4812.D

Injection Date: 17-Nov-2015 01:50:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-21

Lab Sample ID: 480-90492-21

Client ID: 4009-28

Operator ID: SO

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

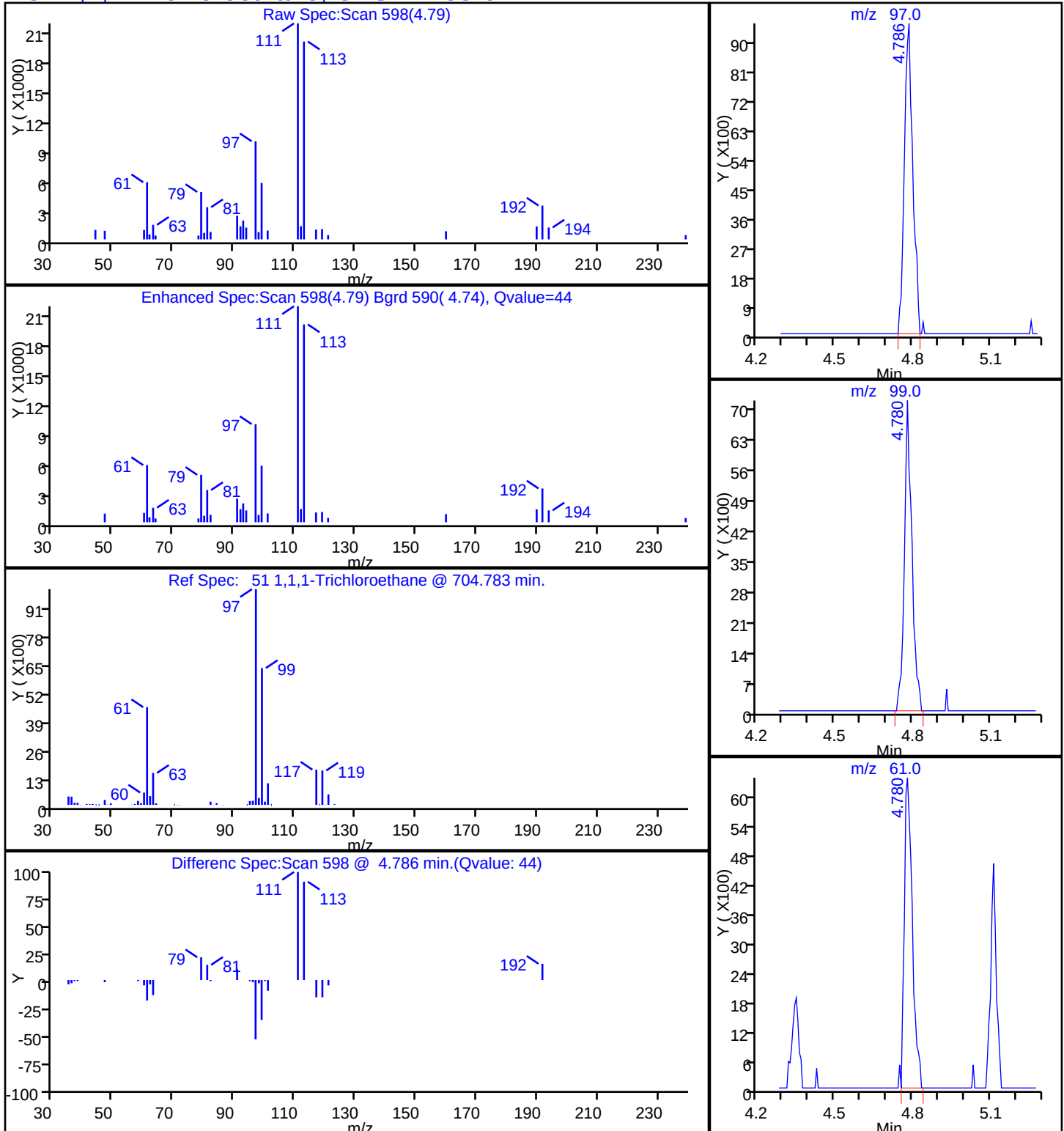
Dil. Factor: 1.0000

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-29S</u>	Lab Sample ID: <u>480-90492-22</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4813.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 02:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>20</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	760		20	16
79-34-5	1,1,2,2-Tetrachloroethane	20	U	20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2
79-00-5	1,1,2-Trichloroethane	20	U	20	4.6
75-34-3	1,1-Dichloroethane	49		20	7.6
75-35-4	1,1-Dichloroethene	84		20	5.8
526-73-8	1,2,3-Trimethylbenzene	20	U	20	5.2
120-82-1	1,2,4-Trichlorobenzene	20	U	20	8.2
95-63-6	1,2,4-Trimethylbenzene	20	U	20	15
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	7.8
106-93-4	1,2-Dibromoethane	20	U	20	15
95-50-1	1,2-Dichlorobenzene	20	U	20	16
107-06-2	1,2-Dichloroethane	20	U	20	4.2
78-87-5	1,2-Dichloropropane	20	U	20	14
108-67-8	1,3,5-Trimethylbenzene	20	U	20	15
541-73-1	1,3-Dichlorobenzene	20	U	20	16
106-46-7	1,4-Dichlorobenzene	20	U	20	17
78-93-3	2-Butanone (MEK)	200	U	200	26
591-78-6	2-Hexanone	100	U	100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	42
67-64-1	Acetone	200	U	200	60
71-43-2	Benzene	20	U	20	8.2
75-27-4	Bromodichloromethane	20	U	20	7.8
75-25-2	Bromoform	20	U	20	5.2
74-83-9	Bromomethane	20	U	20	14
75-15-0	Carbon disulfide	20	U	20	3.8
56-23-5	Carbon tetrachloride	20	U	20	5.4
108-90-7	Chlorobenzene	20	U	20	15
75-00-3	Chloroethane	20	U	20	6.4
67-66-3	Chloroform	20	U	20	6.8
74-87-3	Chloromethane	20	U	20	7.0
156-59-2	cis-1,2-Dichloroethene	310		20	16
10061-01-5	cis-1,3-Dichloropropene	20	U	20	7.2
110-82-7	Cyclohexane	20	U	20	3.6
124-48-1	Dibromochloromethane	20	U	20	6.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-29S Lab Sample ID: 480-90492-22
 Matrix: Water Lab File ID: S4813.D
 Analysis Method: 8260C Date Collected: 11/04/2015 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 02:13
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	20	U	20	14
100-41-4	Ethylbenzene	20	U	20	15
98-82-8	Isopropylbenzene	20	U	20	16
79-20-9	Methyl acetate	50	U	50	26
1634-04-4	Methyl tert-butyl ether	20	U	20	3.2
108-87-2	Methylcyclohexane	20	U	20	3.2
75-09-2	Methylene Chloride	20	U	20	8.8
100-42-5	Styrene	20	U	20	15
127-18-4	Tetrachloroethene	20	U	20	7.2
108-88-3	Toluene	20	U	20	10
156-60-5	trans-1,2-Dichloroethene	20	U	20	18
10061-02-6	trans-1,3-Dichloropropene	20	U	20	7.4
79-01-6	Trichloroethene	20	U	20	9.2
75-69-4	Trichlorofluoromethane	20	U	20	18
75-01-4	Vinyl chloride	82		20	18
1330-20-7	Xylenes, Total	40	U	40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4813.D
 Lims ID: 480-90492-A-22 Lab Sample ID: 480-90492-22
 Client ID: 4009-29S
 Sample Type: Client
 Inject. Date: 17-Nov-2015 02:13:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-90492-A-22
 Misc. Info.: 480-0048406-012
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:39:48 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:41:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	178114	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	340089	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	97	299409	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.811	-0.007	57	216378	29.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	157151	28.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	832399	27.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	219047	26.4	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.511	1.511	0.000	71	37048	4.09	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.661	2.649	0.012	59	28455	4.20	
23 Acetone	43		2.728				ND	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63	3.794	3.788	0.006	71	40487	2.44	
45 cis-1,2-Dichloroethene	96	4.348	4.342	0.006	72	121802	15.7	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	88	336979	37.8	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4813.D

Injection Date: 17-Nov-2015 02:13:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-22

Lab Sample ID: 480-90492-22

Worklist Smp#: 12

Client ID: 4009-29S

Purge Vol: 5.000 mL

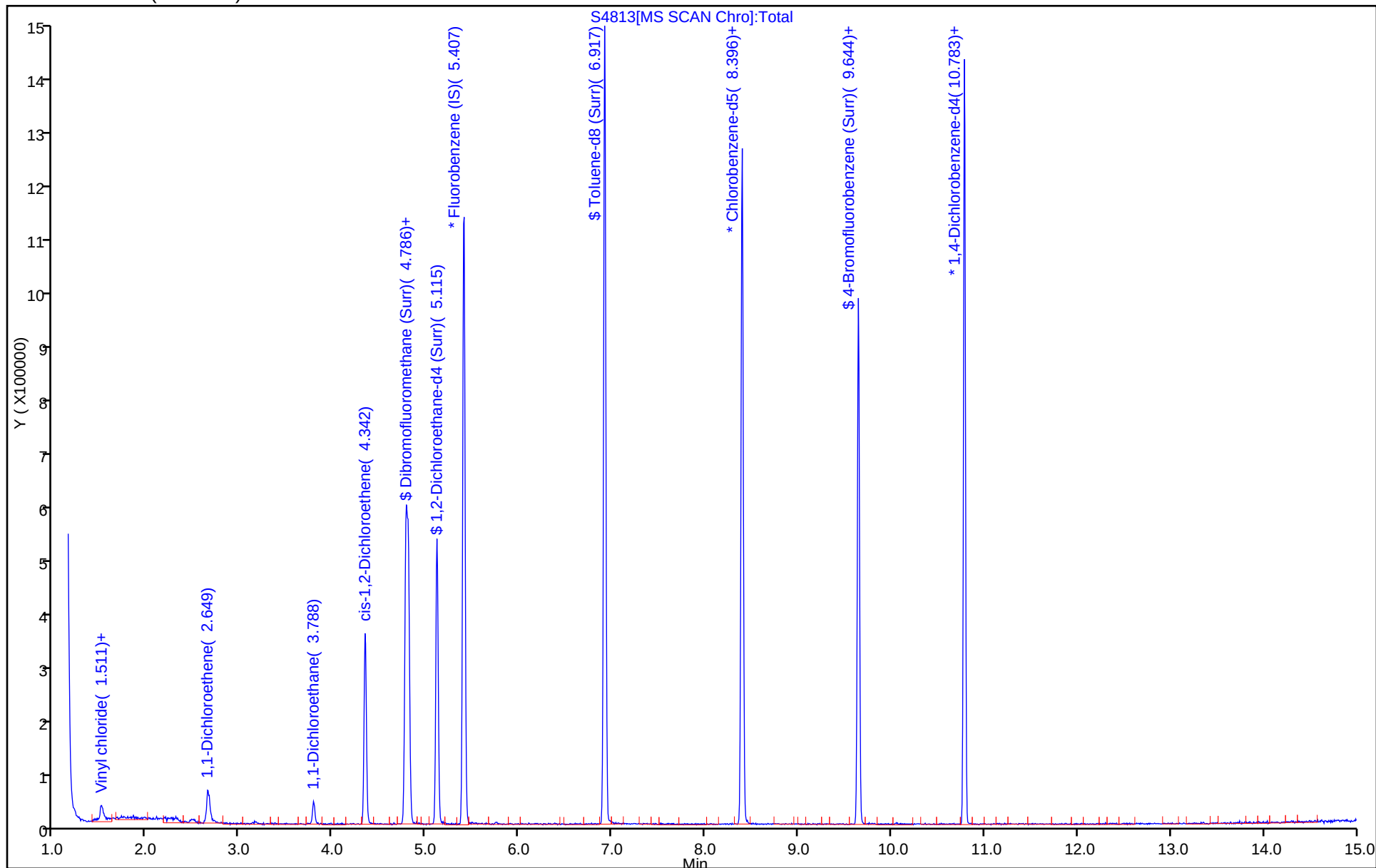
Dil. Factor: 20.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4813.D

Injection Date: 17-Nov-2015 02:13:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-22

Lab Sample ID: 480-90492-22

Client ID: 4009-29S

Operator ID: SO

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

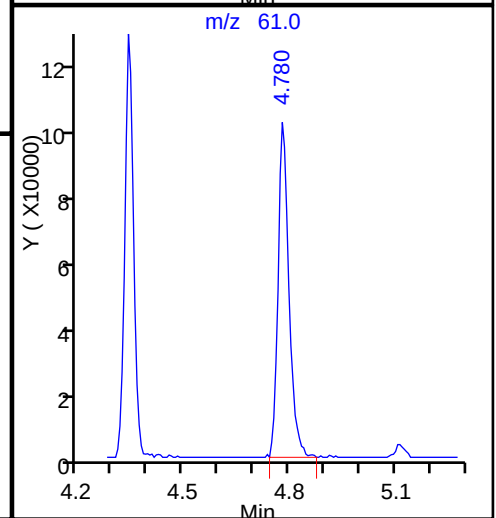
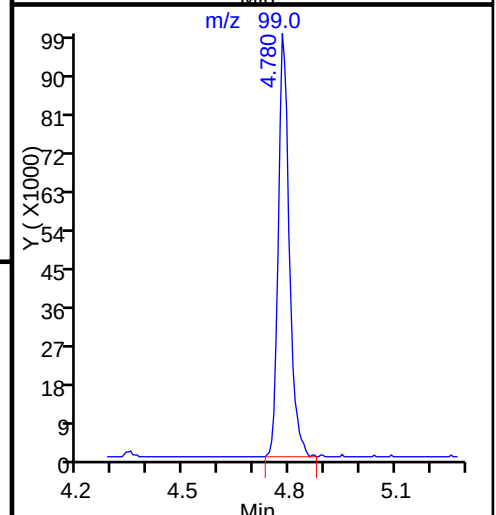
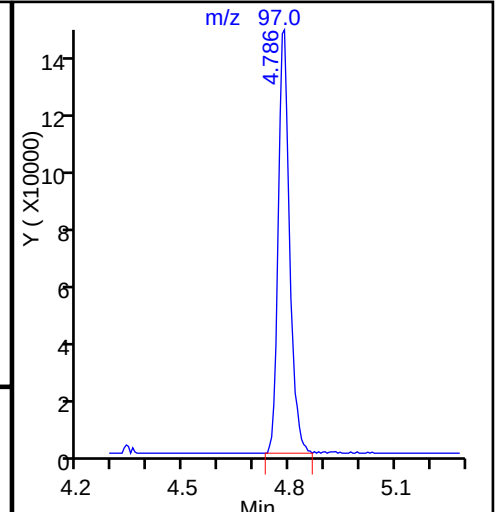
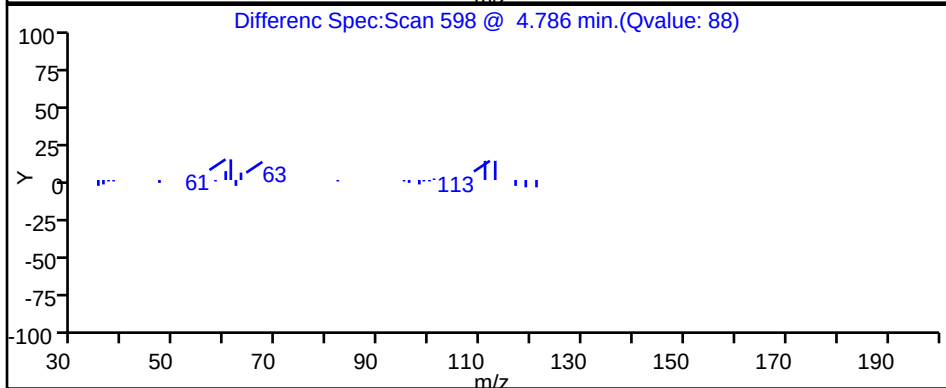
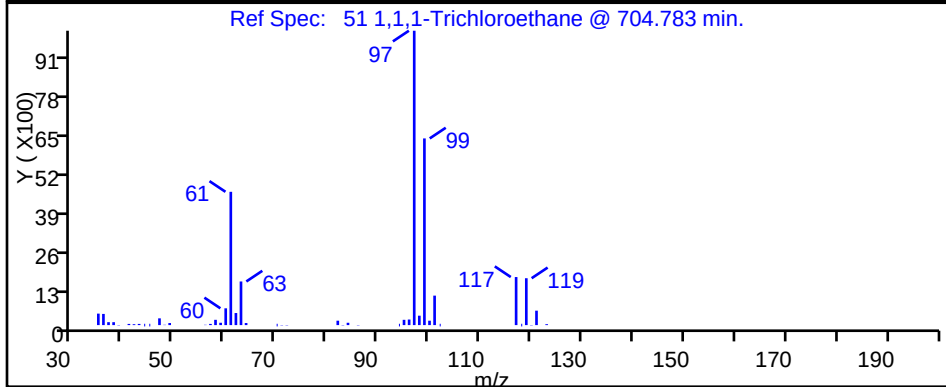
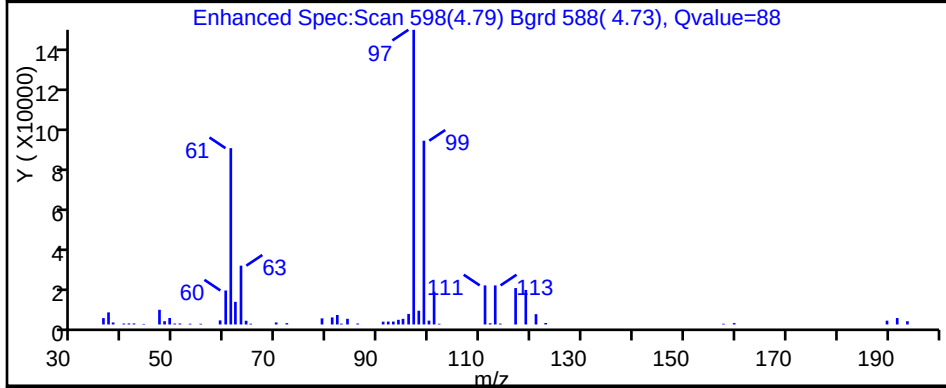
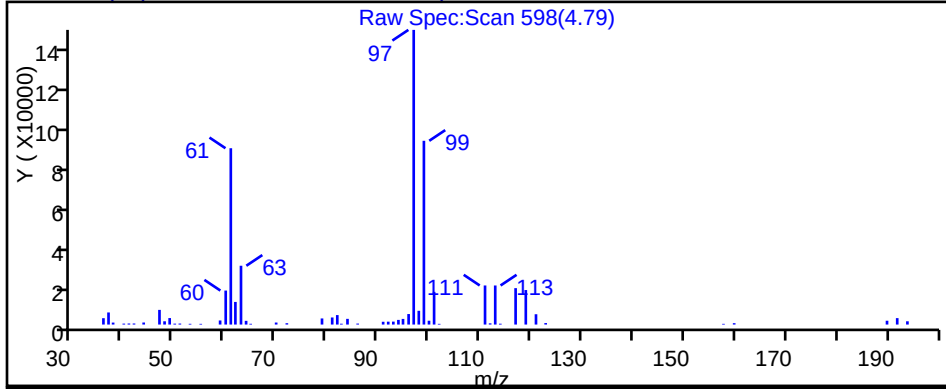
Dil. Factor: 20.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

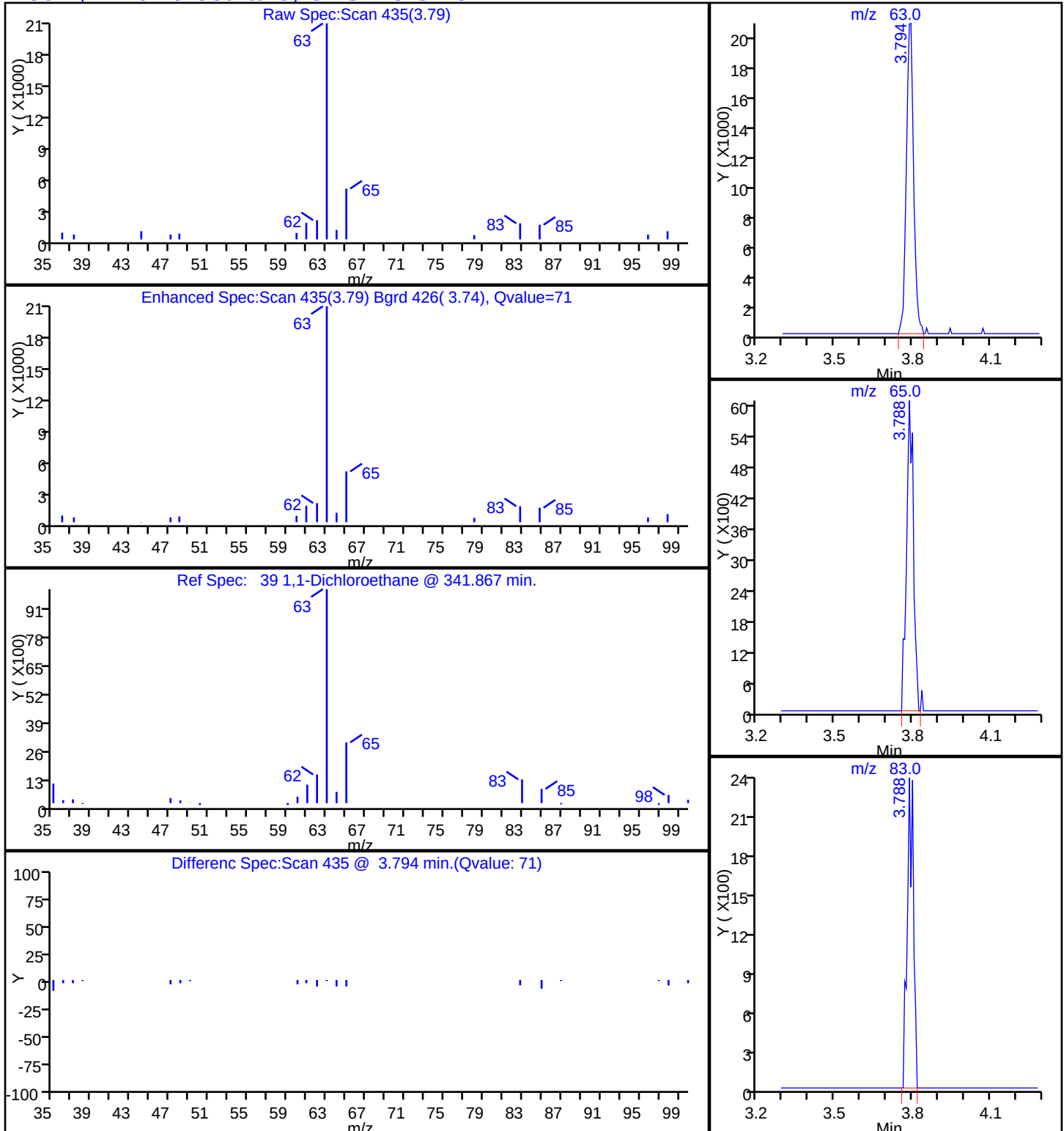
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

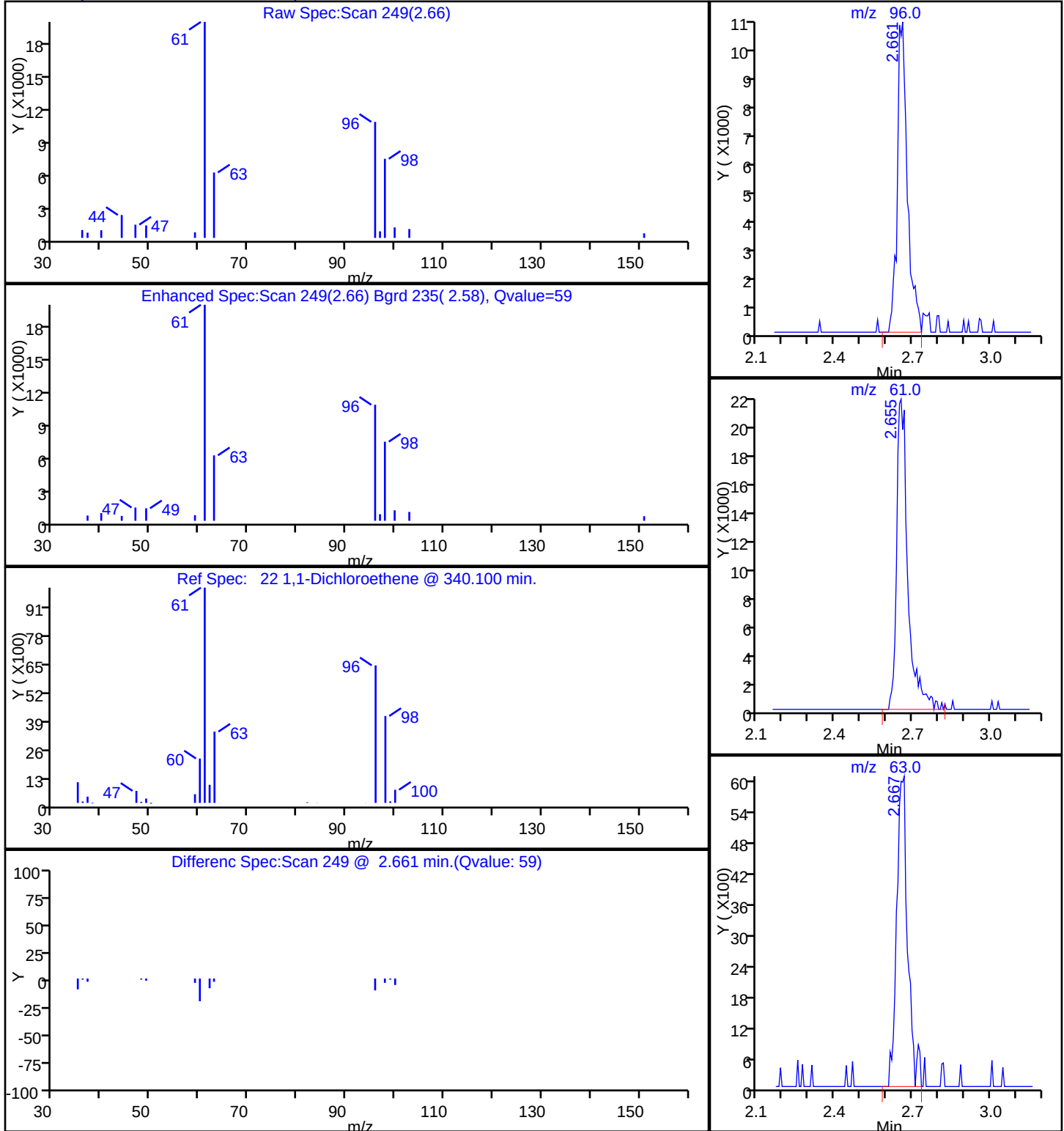
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4813.D
Injection Date: 17-Nov-2015 02:13:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-22 Lab Sample ID: 480-90492-22
Client ID: 4009-29S
Operator ID: SO ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
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

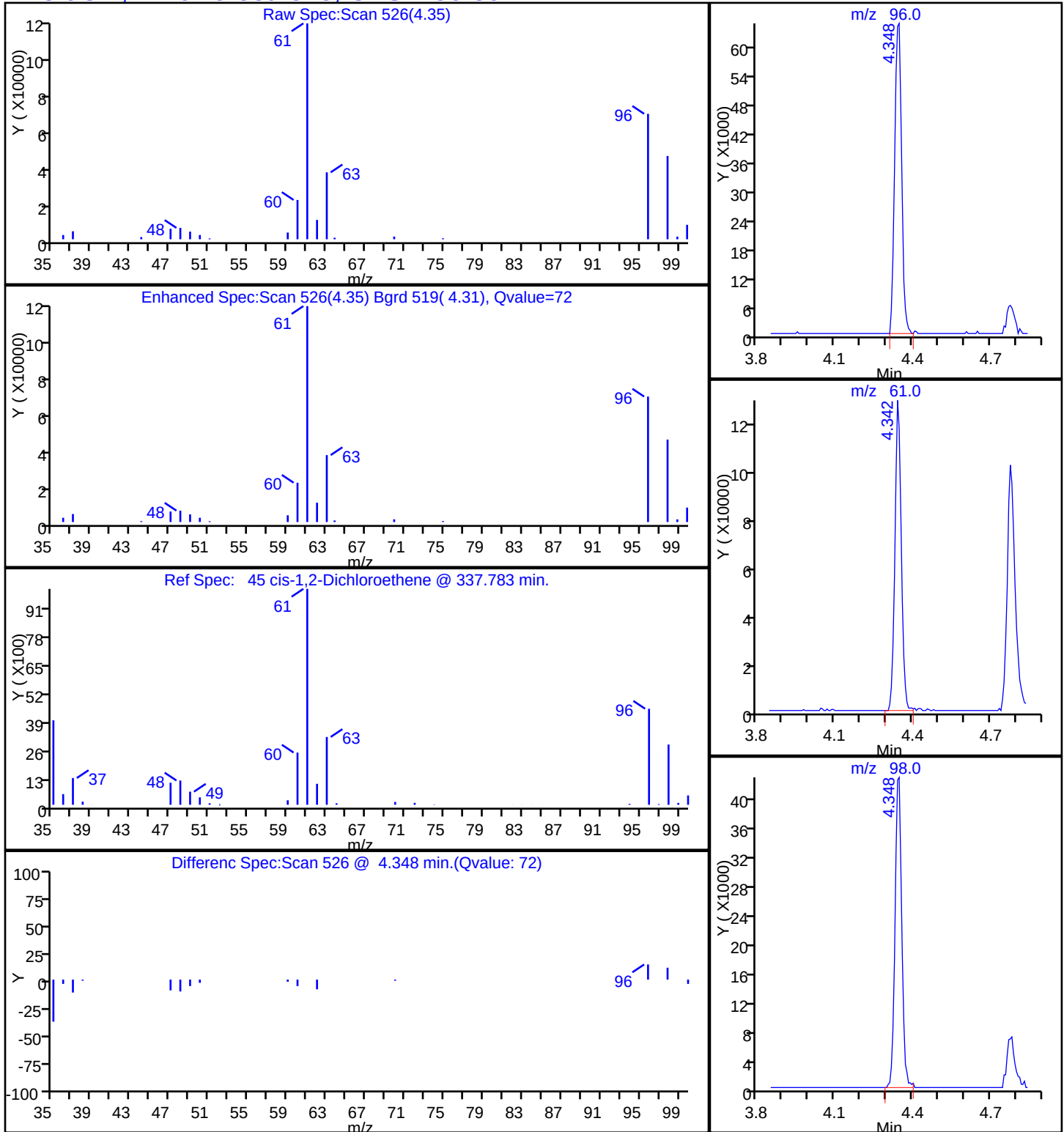
TestAmerica Buffalo

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Injection Date: 17-Nov-2015 02:13:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-22 Lab Sample ID: 480-90492-22
Client ID: 4009-29S
Operator ID: SO ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
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\20151116-48406.b\S4813.D
Injection Date: 17-Nov-2015 02:13:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-22 Lab Sample ID: 480-90492-22
Client ID: 4009-29S
Operator ID: SO ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
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\\20151116-48406.b\\S4813.D

Injection Date: 17-Nov-2015 02:13:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-22

Lab Sample ID: 480-90492-22

Client ID: 4009-29S

Operator ID: SO

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

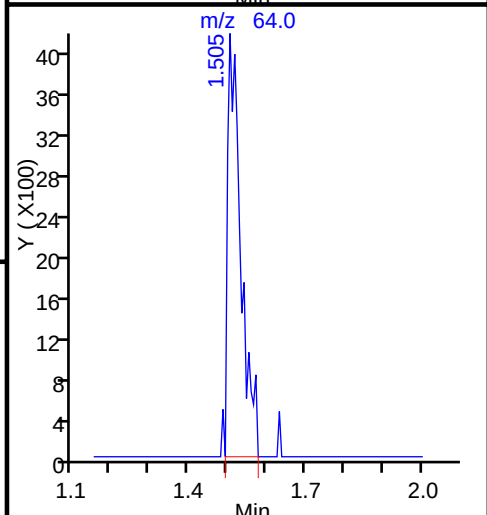
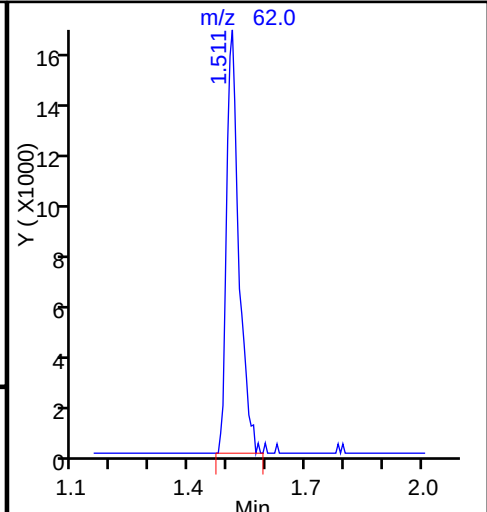
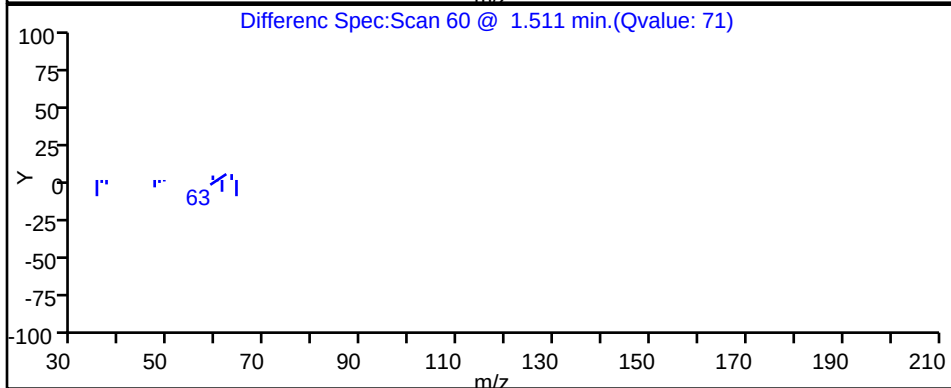
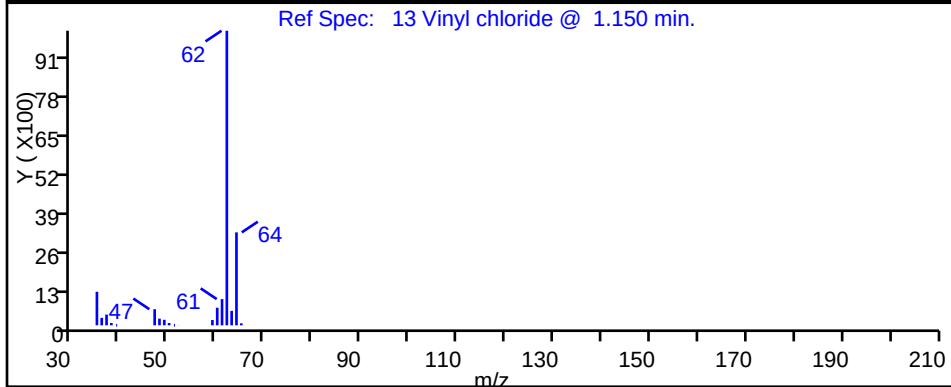
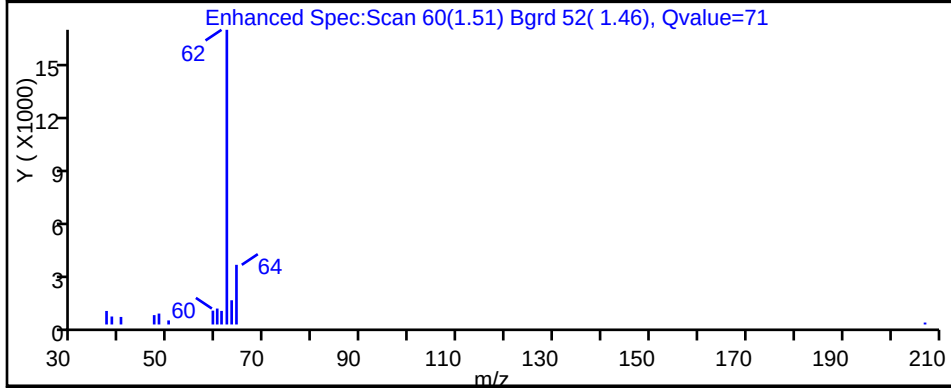
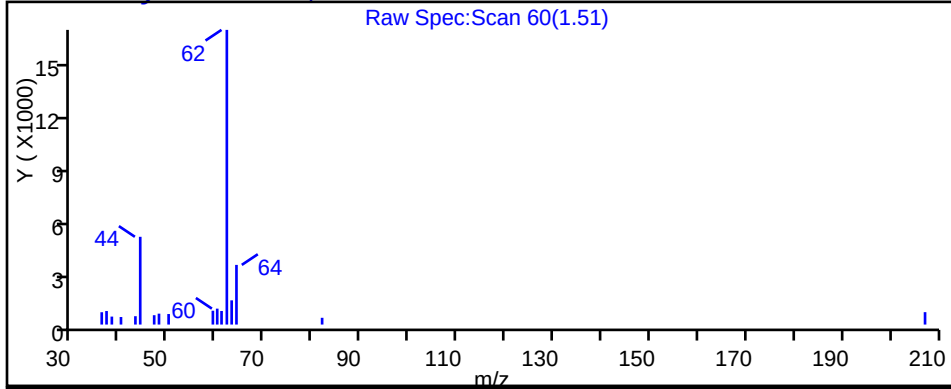
Dil. Factor: 20.0000

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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-29I Lab Sample ID: 480-90492-23

Matrix: Water Lab File ID: S4814.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:35

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 02:36

Soil Aliquot Vol: _____ Dilution Factor: 40

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1400		40	33
79-34-5	1,1,2,2-Tetrachloroethane	40	U	40	8.4
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	40	12
79-00-5	1,1,2-Trichloroethane	40	U	40	9.2
75-34-3	1,1-Dichloroethane	90		40	15
75-35-4	1,1-Dichloroethene	200		40	12
526-73-8	1,2,3-Trimethylbenzene	40	U	40	10
120-82-1	1,2,4-Trichlorobenzene	40	U	40	16
95-63-6	1,2,4-Trimethylbenzene	40	U	40	30
96-12-8	1,2-Dibromo-3-Chloropropane	40	U	40	16
106-93-4	1,2-Dibromoethane	40	U	40	29
95-50-1	1,2-Dichlorobenzene	40	U	40	32
107-06-2	1,2-Dichloroethane	40	U	40	8.4
78-87-5	1,2-Dichloropropane	40	U	40	29
108-67-8	1,3,5-Trimethylbenzene	40	U	40	31
541-73-1	1,3-Dichlorobenzene	40	U	40	31
106-46-7	1,4-Dichlorobenzene	40	U	40	34
78-93-3	2-Butanone (MEK)	400	U	400	53
591-78-6	2-Hexanone	200	U	200	50
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200	84
67-64-1	Acetone	400	U	400	120
71-43-2	Benzene	40	U	40	16
75-27-4	Bromodichloromethane	40	U	40	16
75-25-2	Bromoform	40	U	40	10
74-83-9	Bromomethane	40	U	40	28
75-15-0	Carbon disulfide	40	U	40	7.6
56-23-5	Carbon tetrachloride	40	U	40	11
108-90-7	Chlorobenzene	40	U	40	30
75-00-3	Chloroethane	40	U	40	13
67-66-3	Chloroform	40	U	40	14
74-87-3	Chloromethane	40	U	40	14
156-59-2	cis-1,2-Dichloroethene	410		40	32
10061-01-5	cis-1,3-Dichloropropene	40	U	40	14
110-82-7	Cyclohexane	40	U	40	7.2
124-48-1	Dibromochloromethane	40	U	40	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-29I Lab Sample ID: 480-90492-23
 Matrix: Water Lab File ID: S4814.D
 Analysis Method: 8260C Date Collected: 11/04/2015 10:35
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 02:36
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	40	U	40	27
100-41-4	Ethylbenzene	40	U	40	30
98-82-8	Isopropylbenzene	40	U	40	32
79-20-9	Methyl acetate	100	U	100	52
1634-04-4	Methyl tert-butyl ether	40	U	40	6.4
108-87-2	Methylcyclohexane	40	U	40	6.4
75-09-2	Methylene Chloride	40	U	40	18
100-42-5	Styrene	40	U	40	29
127-18-4	Tetrachloroethene	40	U	40	14
108-88-3	Toluene	40	U	40	20
156-60-5	trans-1,2-Dichloroethene	40	U	40	36
10061-02-6	trans-1,3-Dichloropropene	40	U	40	15
79-01-6	Trichloroethene	480		40	18
75-69-4	Trichlorofluoromethane	40	U	40	35
75-01-4	Vinyl chloride	110		40	36
1330-20-7	Xylenes, Total	80	U	80	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4814.D
 Lims ID: 480-90492-A-23 Lab Sample ID: 480-90492-23
 Client ID: 4009-291
 Sample Type: Client
 Inject. Date: 17-Nov-2015 02:36:30 ALS Bottle#: 11 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Sample Info: 480-90492-A-23
 Misc. Info.: 480-0048406-013
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:39:48 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:41:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	174886	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	329640	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	287141	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	-0.001	59	206370	28.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	155294	28.6	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	811884	27.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	213027	26.4	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.511	1.511	0.000	56	24677	2.78	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.668	2.649	0.019	73	33801	5.08	
23 Acetone	43		2.728				ND	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63	3.794	3.788	0.006	72	36571	2.24	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	78563	10.3	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.780	4.786	-0.006	88	303825	34.7	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.748	5.748	0.000	90	86049	11.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4814.D

Injection Date: 17-Nov-2015 02:36:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-23

Lab Sample ID: 480-90492-23

Worklist Smp#: 13

Client ID: 4009-29I

Purge Vol: 5.000 mL

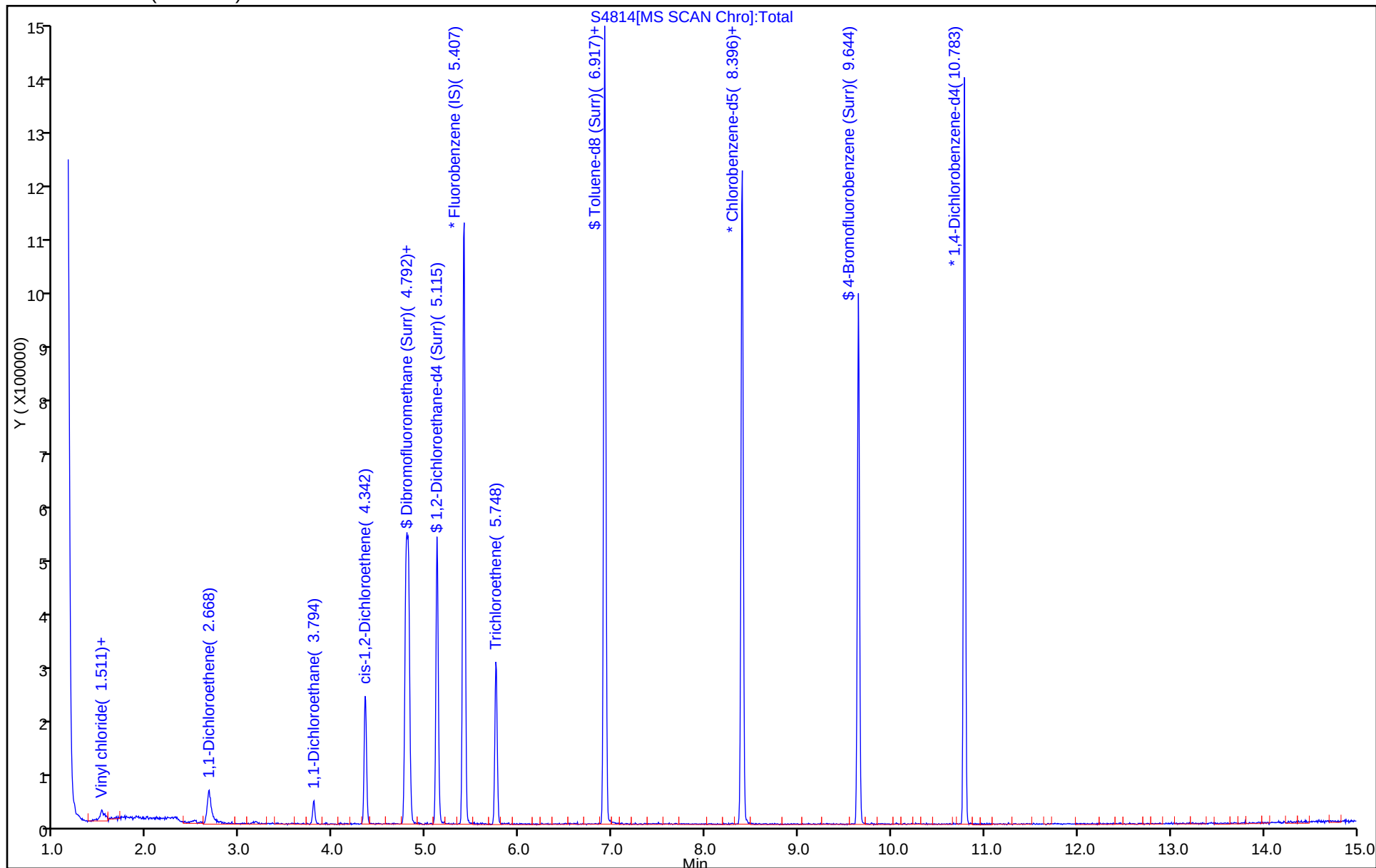
Dil. Factor: 40.0000

ALS Bottle#: 11

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4814.D

Injection Date: 17-Nov-2015 02:36:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-23

Lab Sample ID: 480-90492-23

Client ID: 4009-291

Operator ID: SO

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

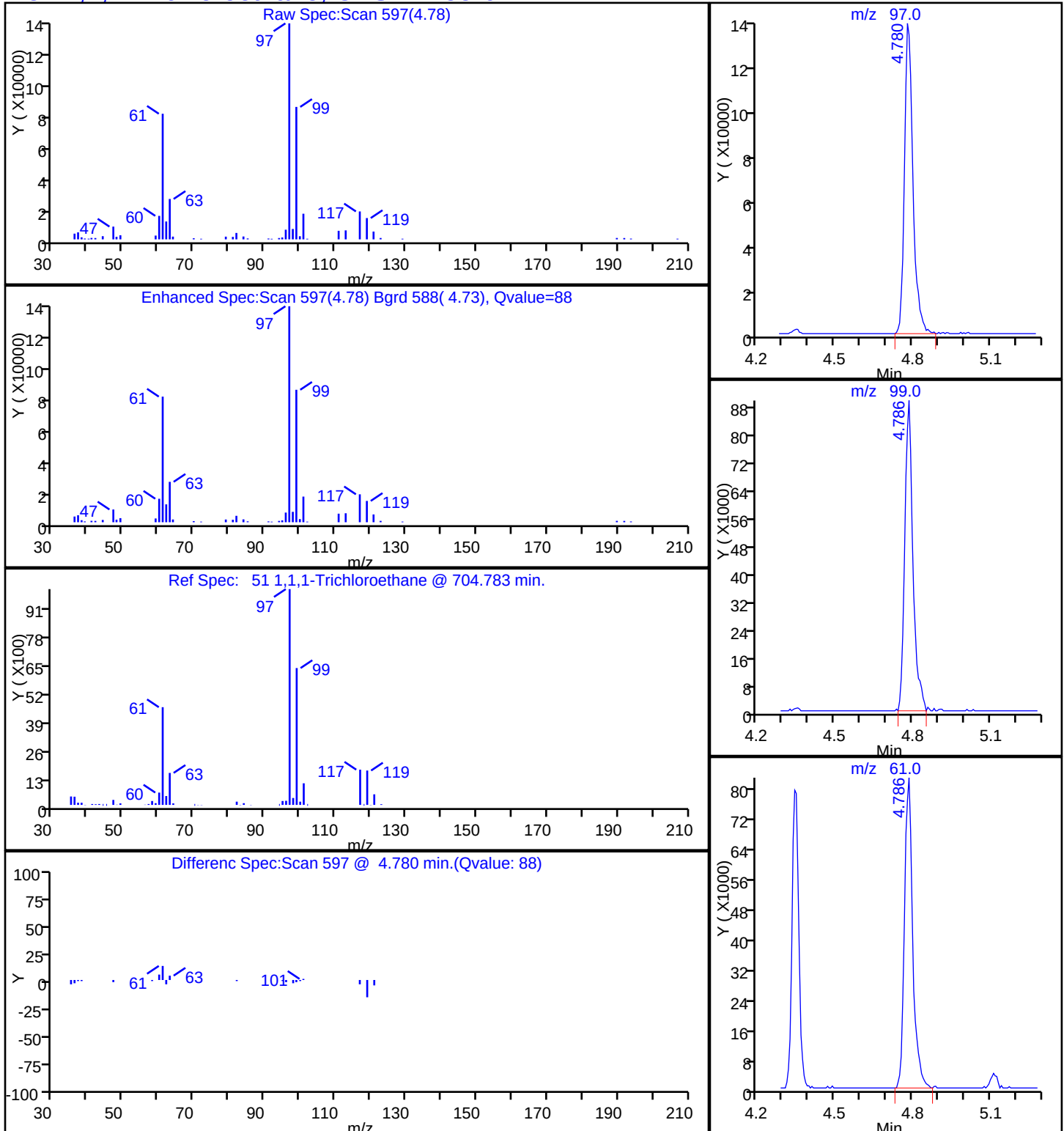
Dil. Factor: 40.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

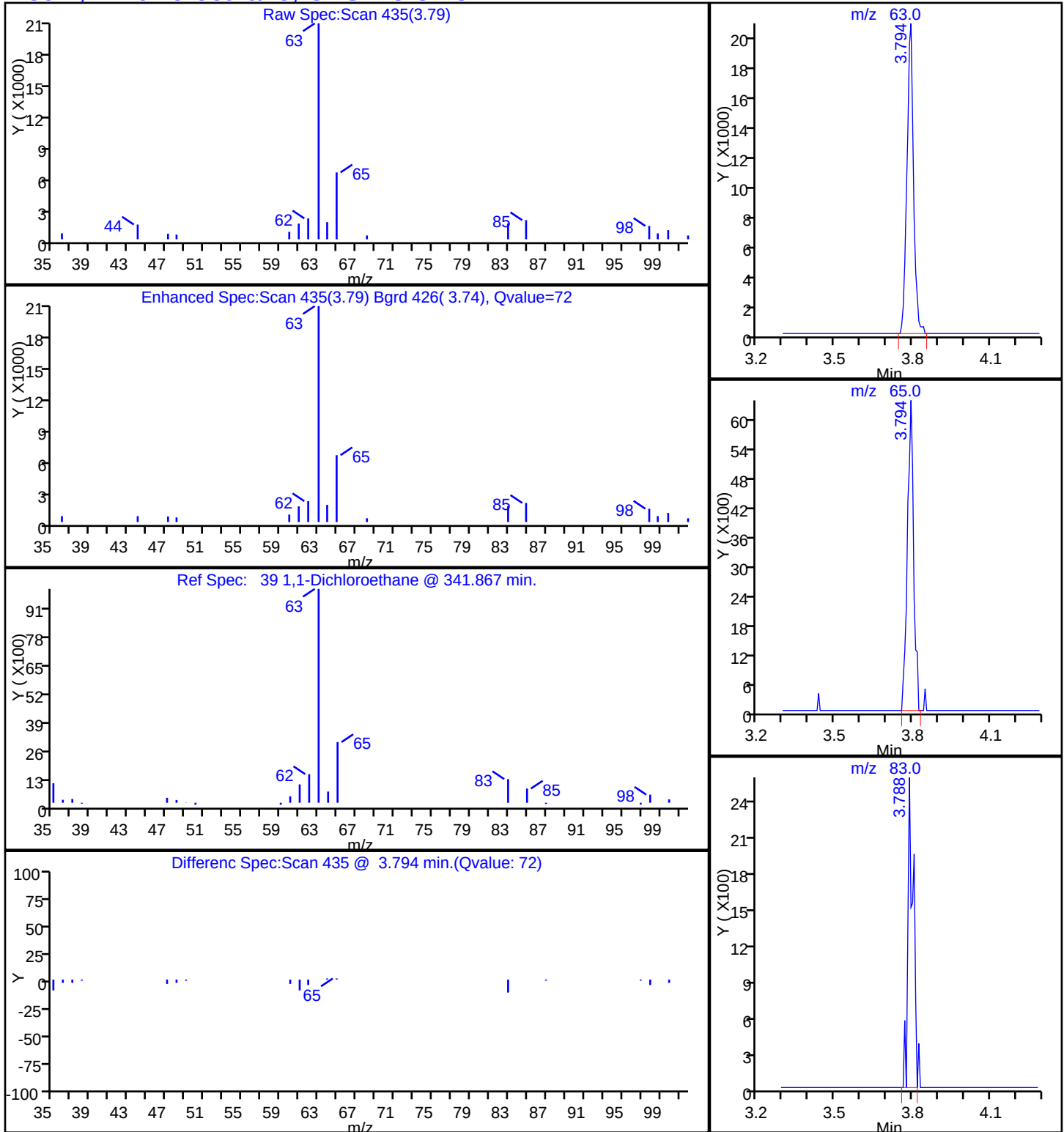
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

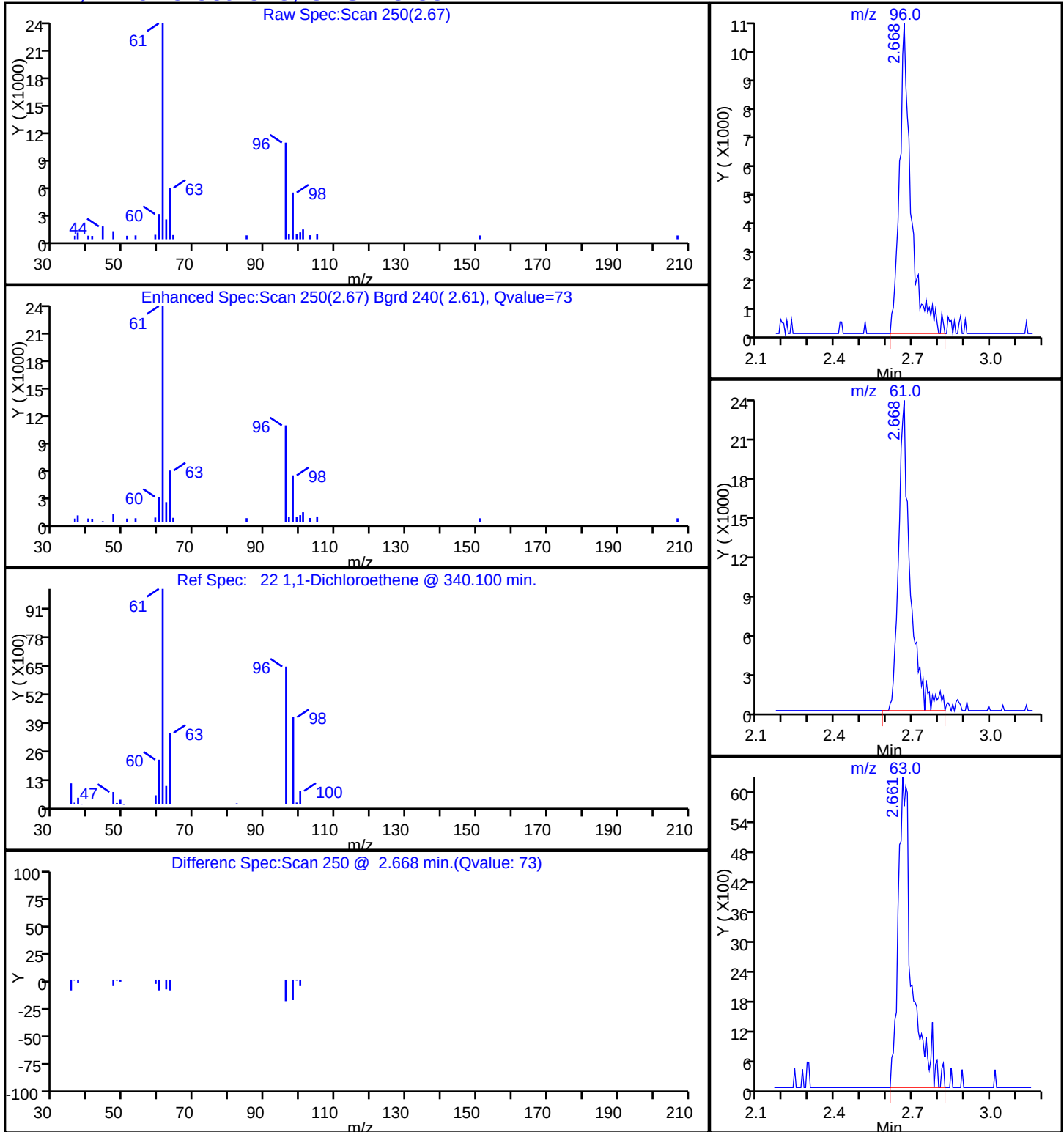
TestAmerica Buffalo

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Injection Date: 17-Nov-2015 02:36:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-23 Lab Sample ID: 480-90492-23
Client ID: 4009-29I
Operator ID: SO ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 40.0000
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

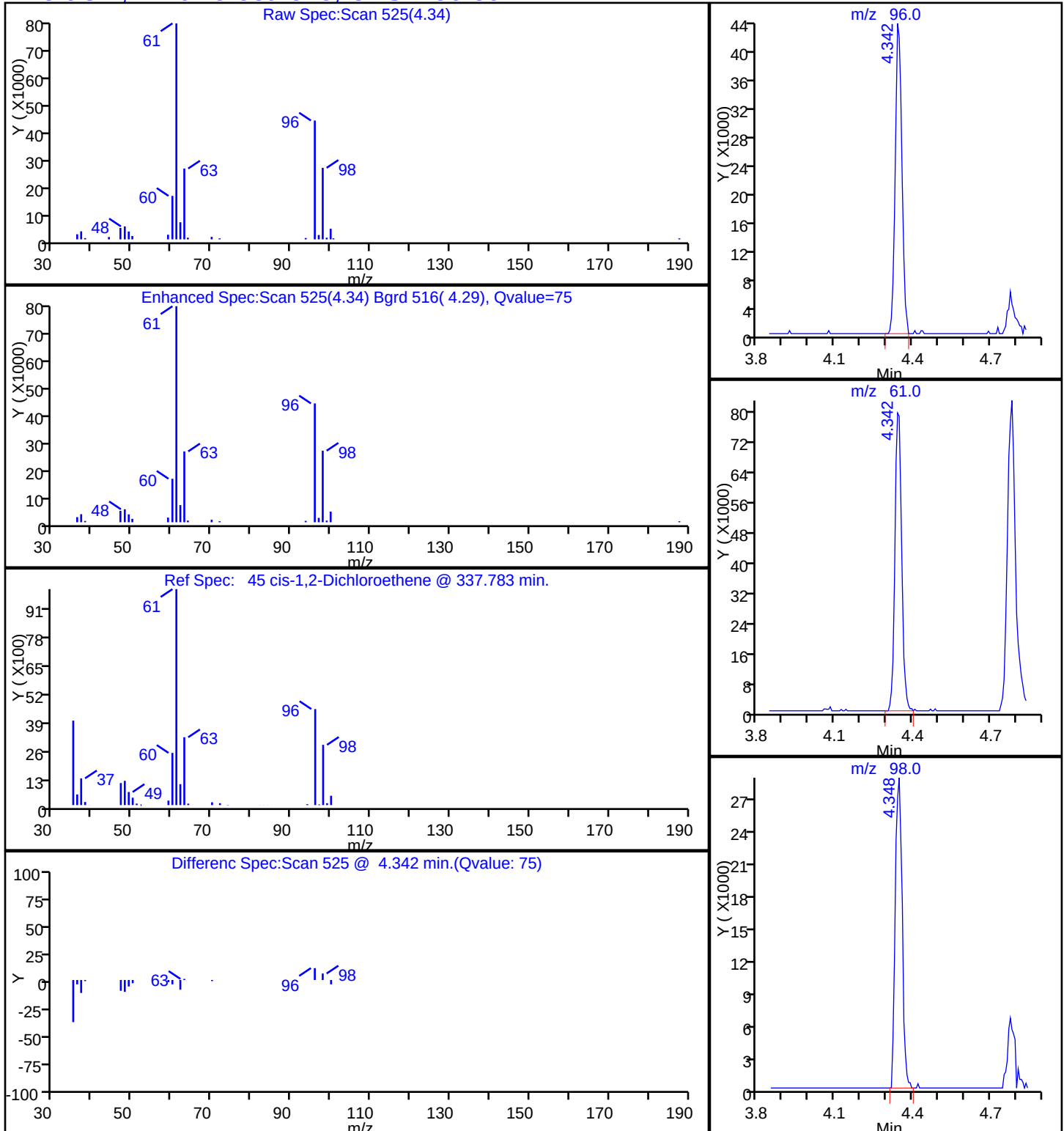
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Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4814.D
Injection Date: 17-Nov-2015 02:36:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-23 Lab Sample ID: 480-90492-23
Client ID: 4009-291
Operator ID: SO ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 40.0000
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

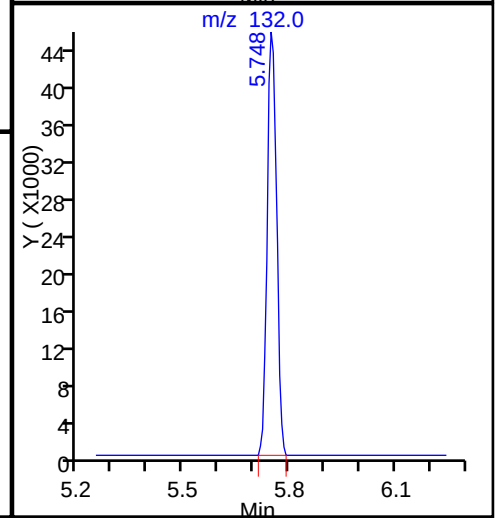
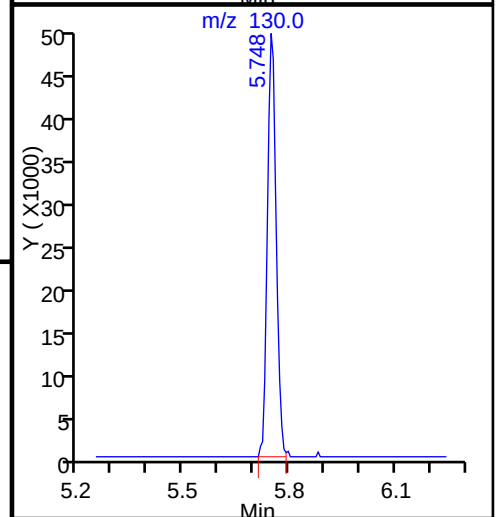
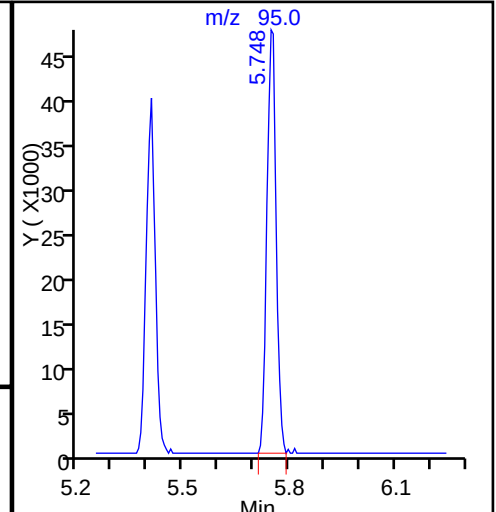
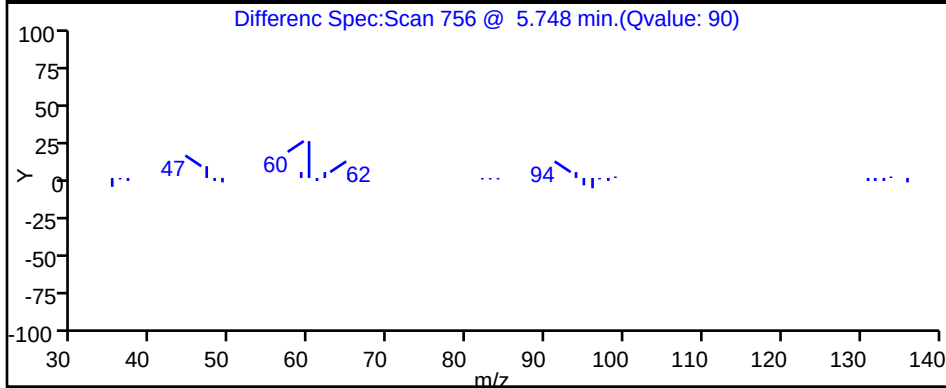
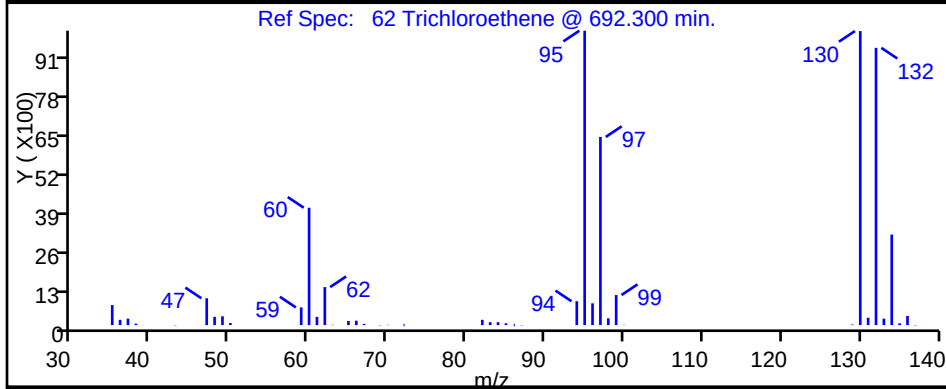
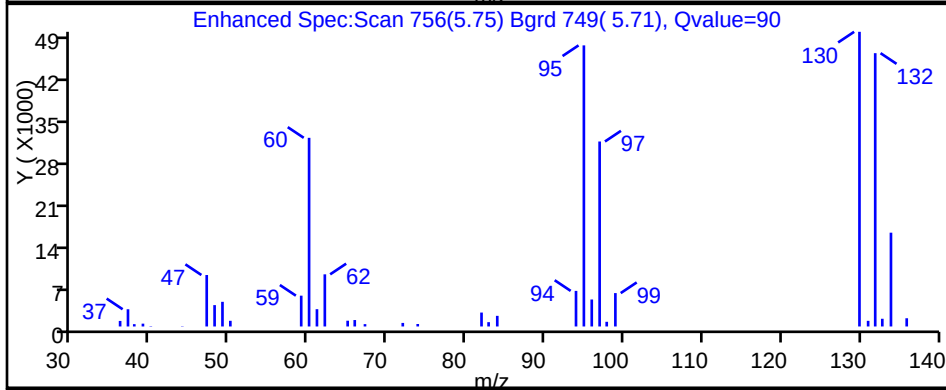
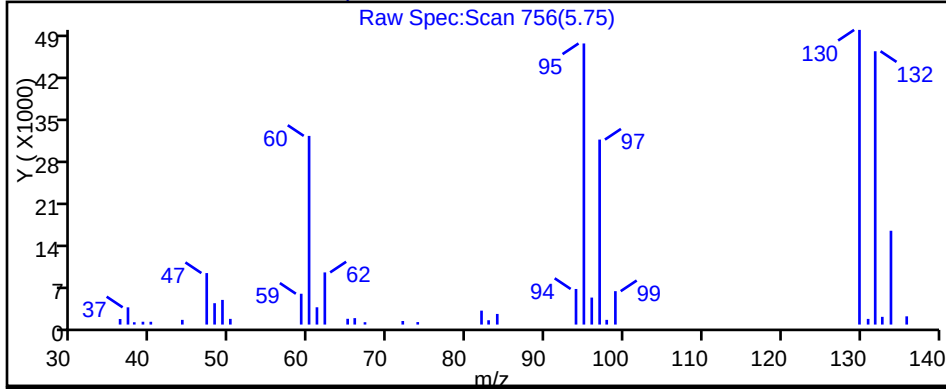
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4814.D
Injection Date: 17-Nov-2015 02:36:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-23 Lab Sample ID: 480-90492-23
Client ID: 4009-29I
Operator ID: SO ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 40.0000
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

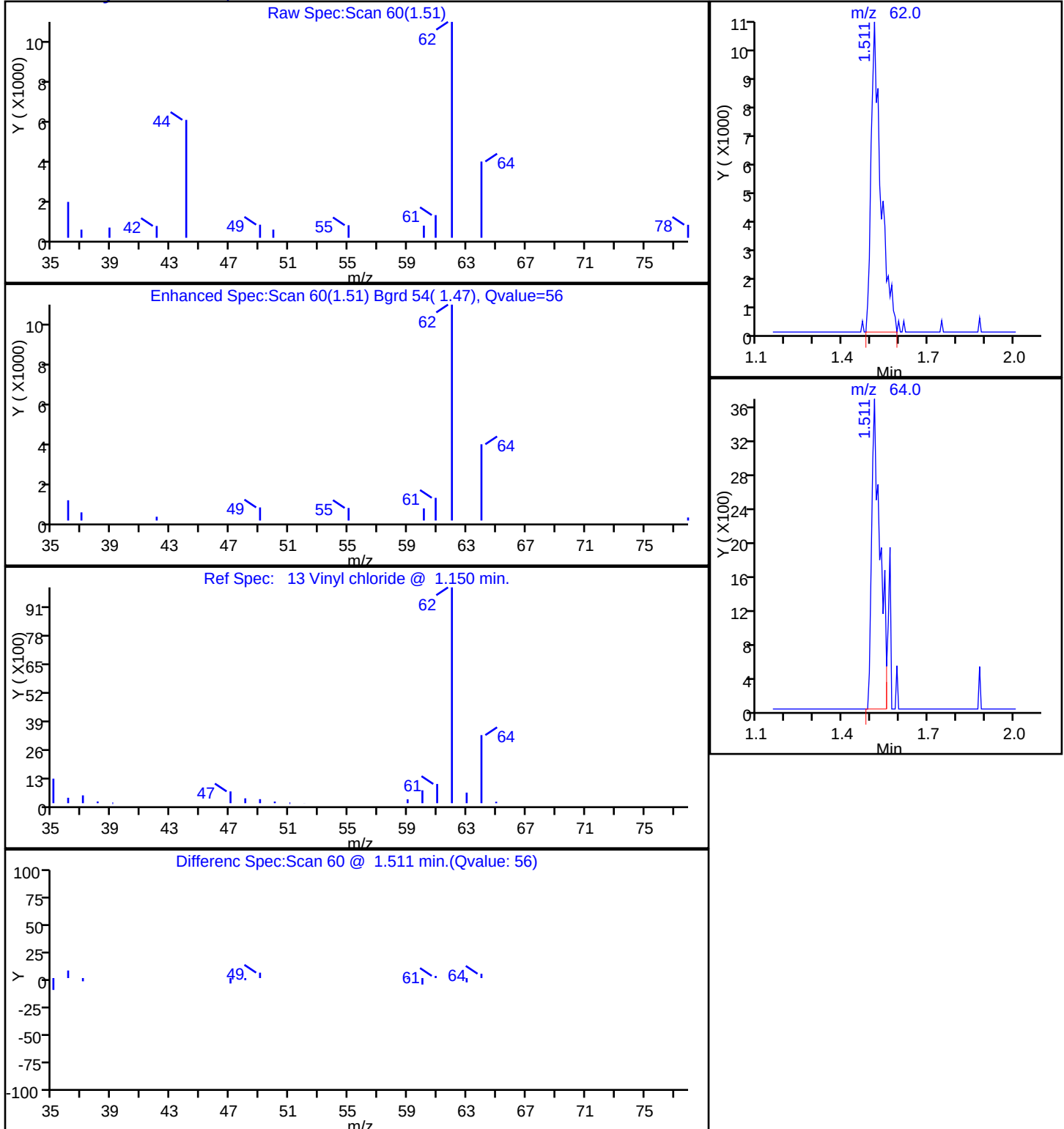
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4814.D
Injection Date: 17-Nov-2015 02:36:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-23 Lab Sample ID: 480-90492-23
Client ID: 4009-291
Operator ID: SO ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 40.0000
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\20151116-48406.b\S4814.D
Injection Date: 17-Nov-2015 02:36:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-23 Lab Sample ID: 480-90492-23
Client ID: 4009-29I
Operator ID: SO ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 40.0000
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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-29D Lab Sample ID: 480-90492-24

Matrix: Water Lab File ID: S4815.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:40

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 02:59

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	14		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	4.2		1.0	0.38
75-35-4	1,1-Dichloroethene	2.0		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	1.2		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	8.0		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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-29D Lab Sample ID: 480-90492-24

Matrix: Water Lab File ID: S4815.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:40

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 02:59

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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	0.94	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	7.2		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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D
 Lims ID: 480-90492-A-24 Lab Sample ID: 480-90492-24
 Client ID: 4009-29D
 Sample Type: Client
 Inject. Date: 17-Nov-2015 02:59:30 ALS Bottle#: 12 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-24
 Misc. Info.: 480-0048406-014
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:45:05 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:45:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	180010	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	344042	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	300165	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.811	-0.007	66	203594	27.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	159641	28.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	806941	26.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	222789	26.5	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.505	1.511	-0.006	80	66337	7.25	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64	1.925	1.913	0.012	32	2951	1.15	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.649	2.649	0.000	72	13882	2.03	
23 Acetone	43	2.741	2.728	0.012	39	4442	1.19	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63	3.794	3.788	0.006	78	70535	4.20	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	71	62775	7.99	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	86	127735	14.2	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	28	4822	0.1580	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.754	5.748	0.006	61	6976	0.9375	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D

Injection Date: 17-Nov-2015 02:59:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-24

Lab Sample ID: 480-90492-24

Worklist Smp#: 14

Client ID: 4009-29D

Purge Vol: 5.000 mL

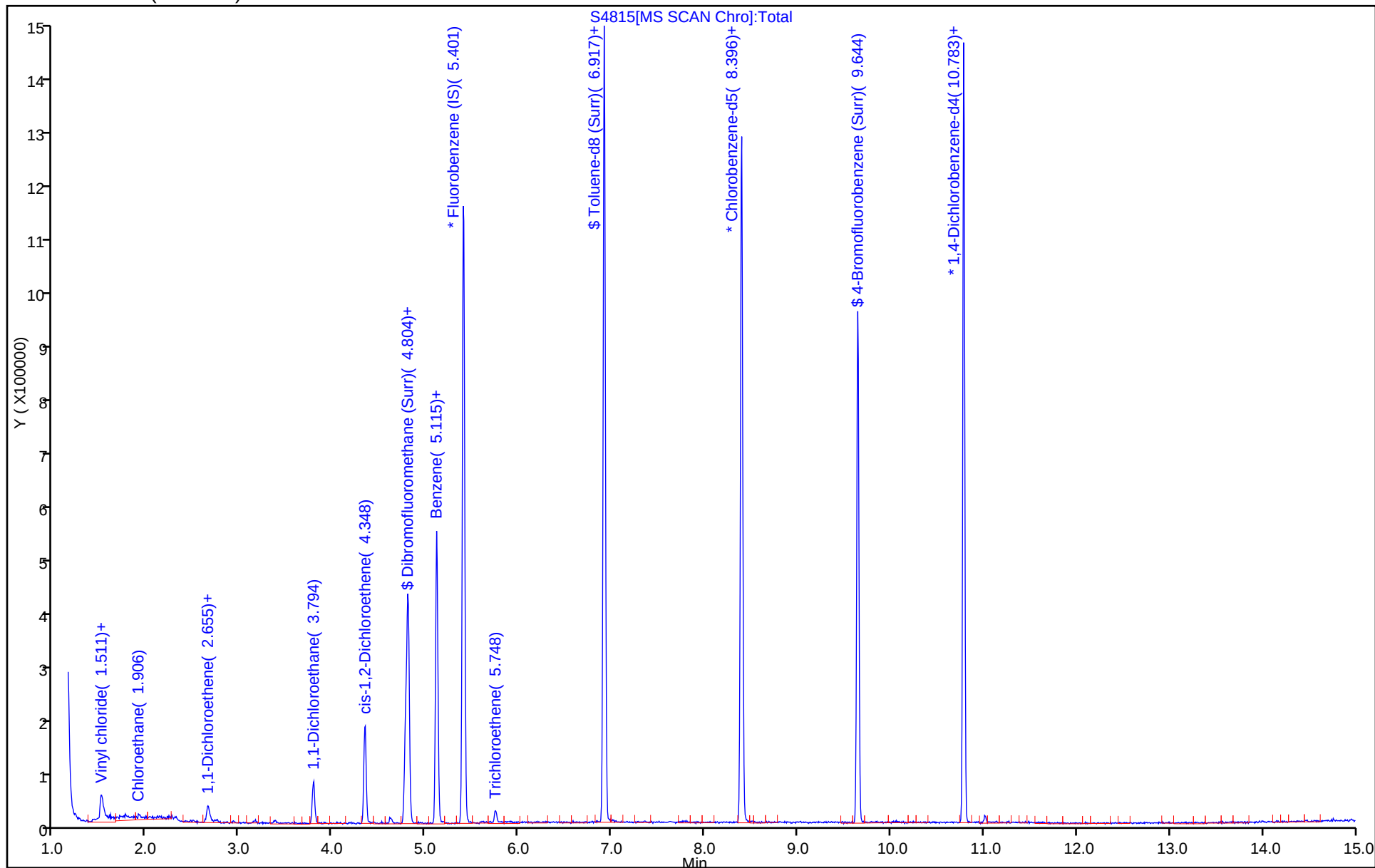
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D

Injection Date: 17-Nov-2015 02:59:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-24

Lab Sample ID: 480-90492-24

Client ID: 4009-29D

Operator ID: SO

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

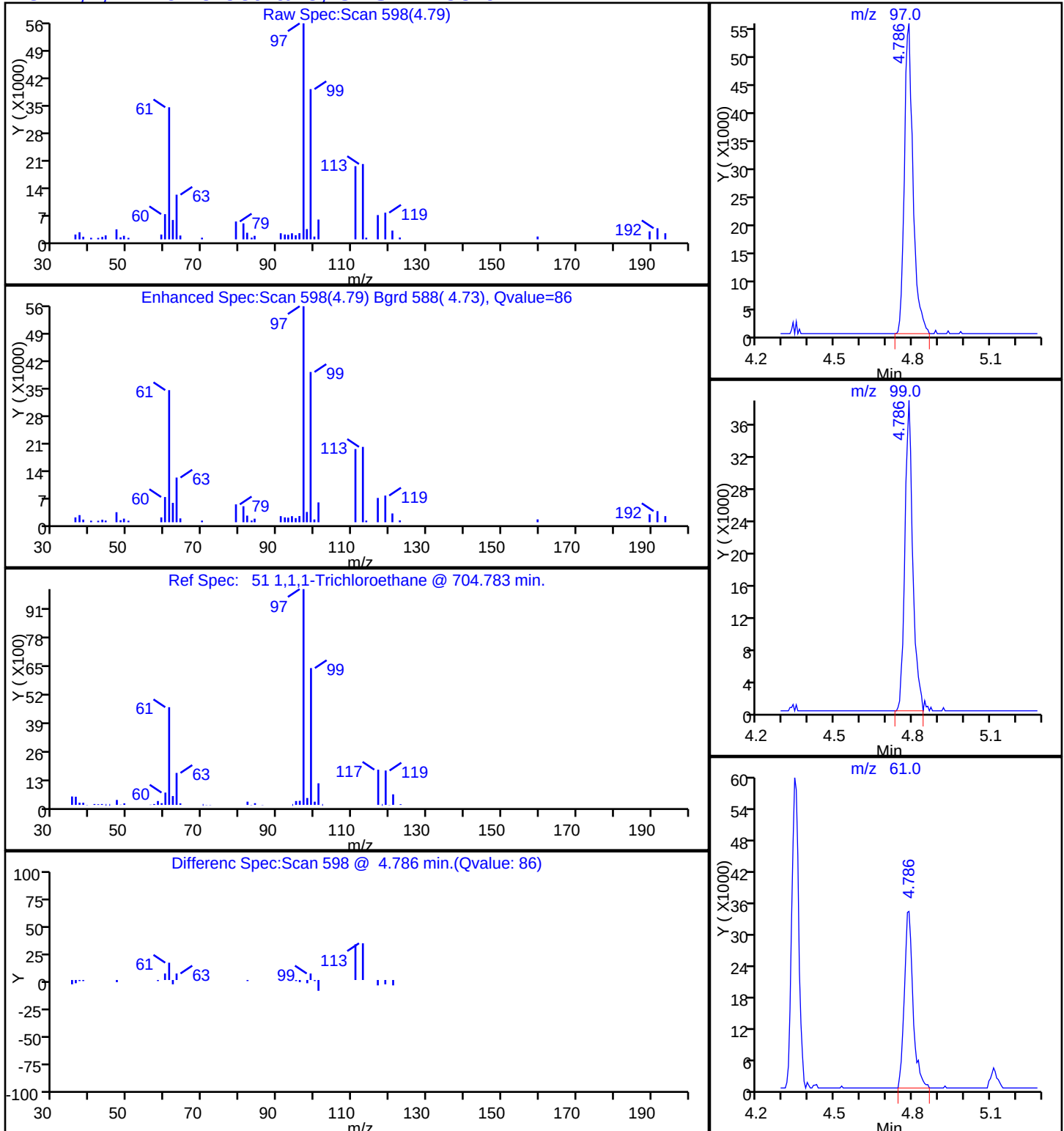
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

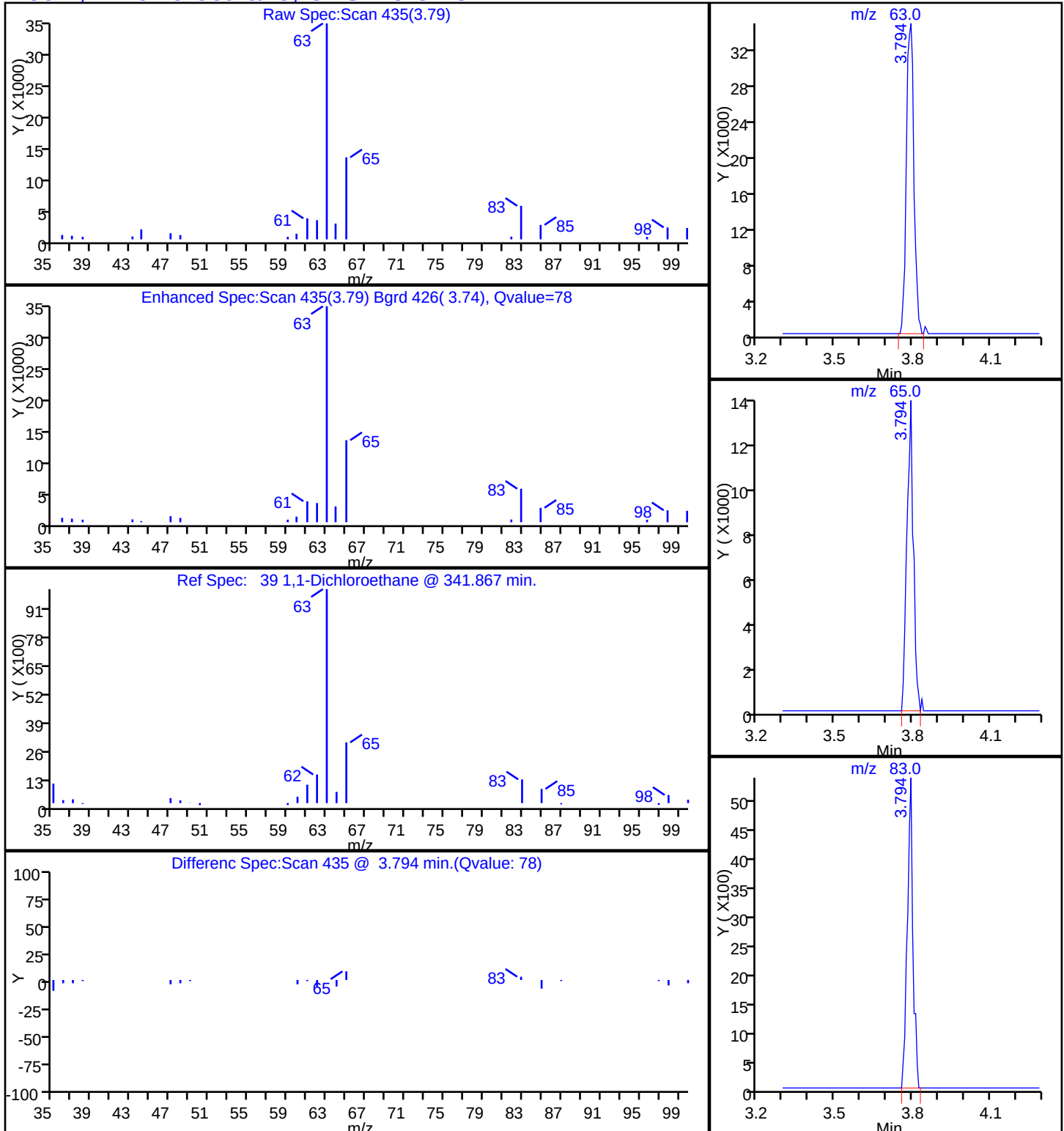
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

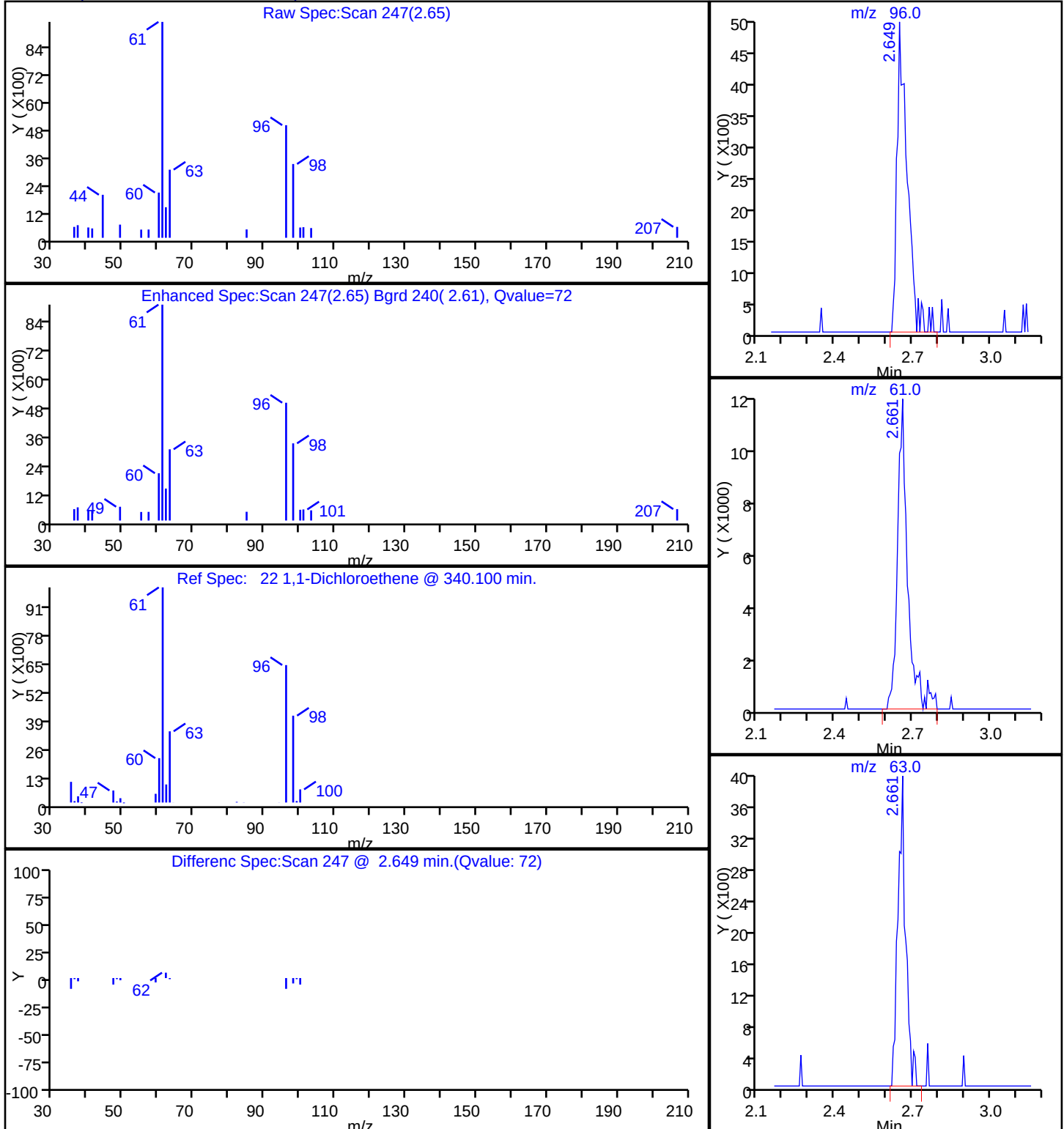
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D
Injection Date: 17-Nov-2015 02:59:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-24 Lab Sample ID: 480-90492-24
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 12 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

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D
Injection Date: 17-Nov-2015 02:59:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-24 Lab Sample ID: 480-90492-24
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 12 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

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D

Injection Date: 17-Nov-2015 02:59:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-24

Lab Sample ID: 480-90492-24

Client ID: 4009-29D

Operator ID: SO

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

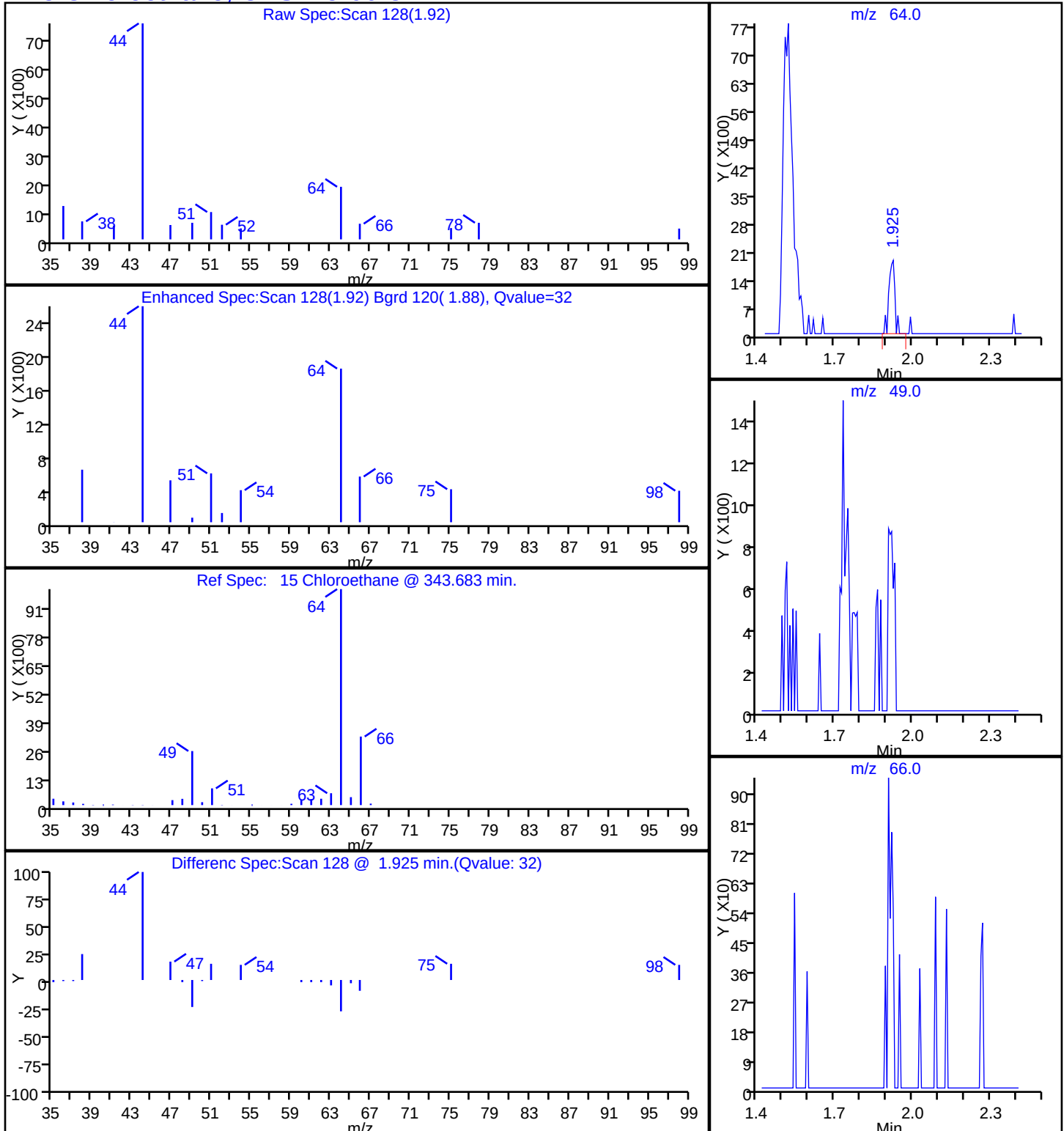
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

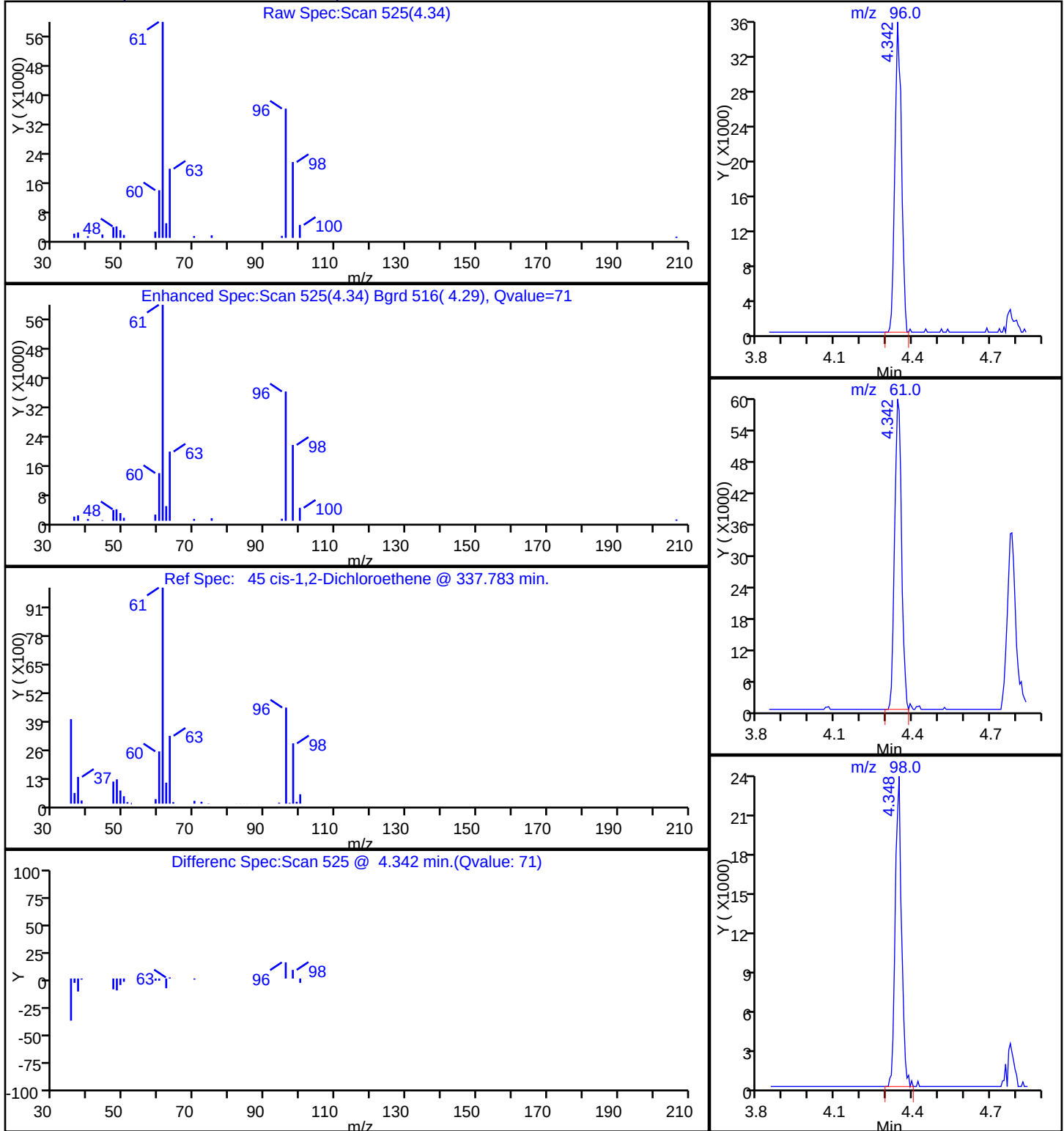
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

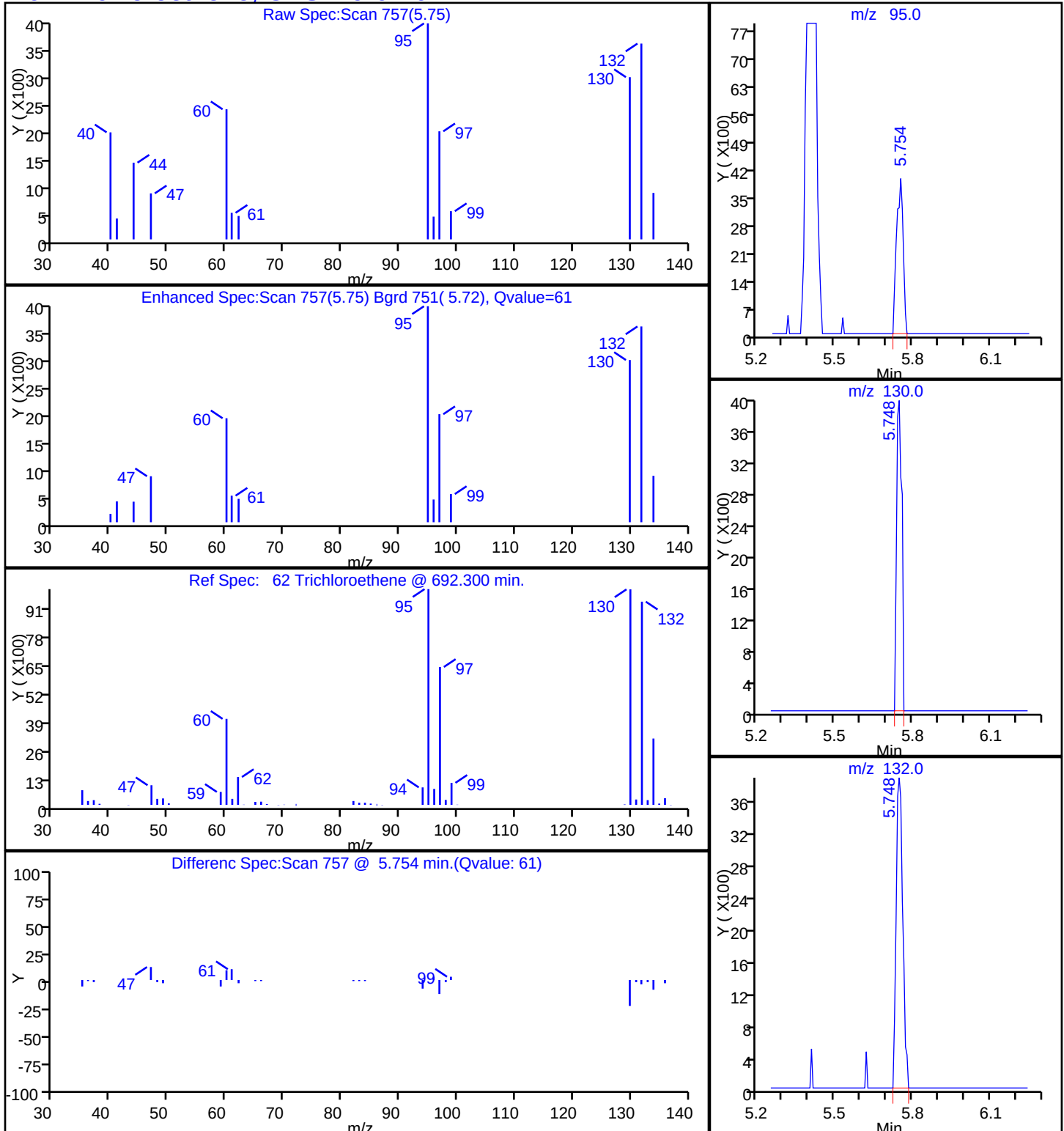
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D
Injection Date: 17-Nov-2015 02:59:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-24 Lab Sample ID: 480-90492-24
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 12 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

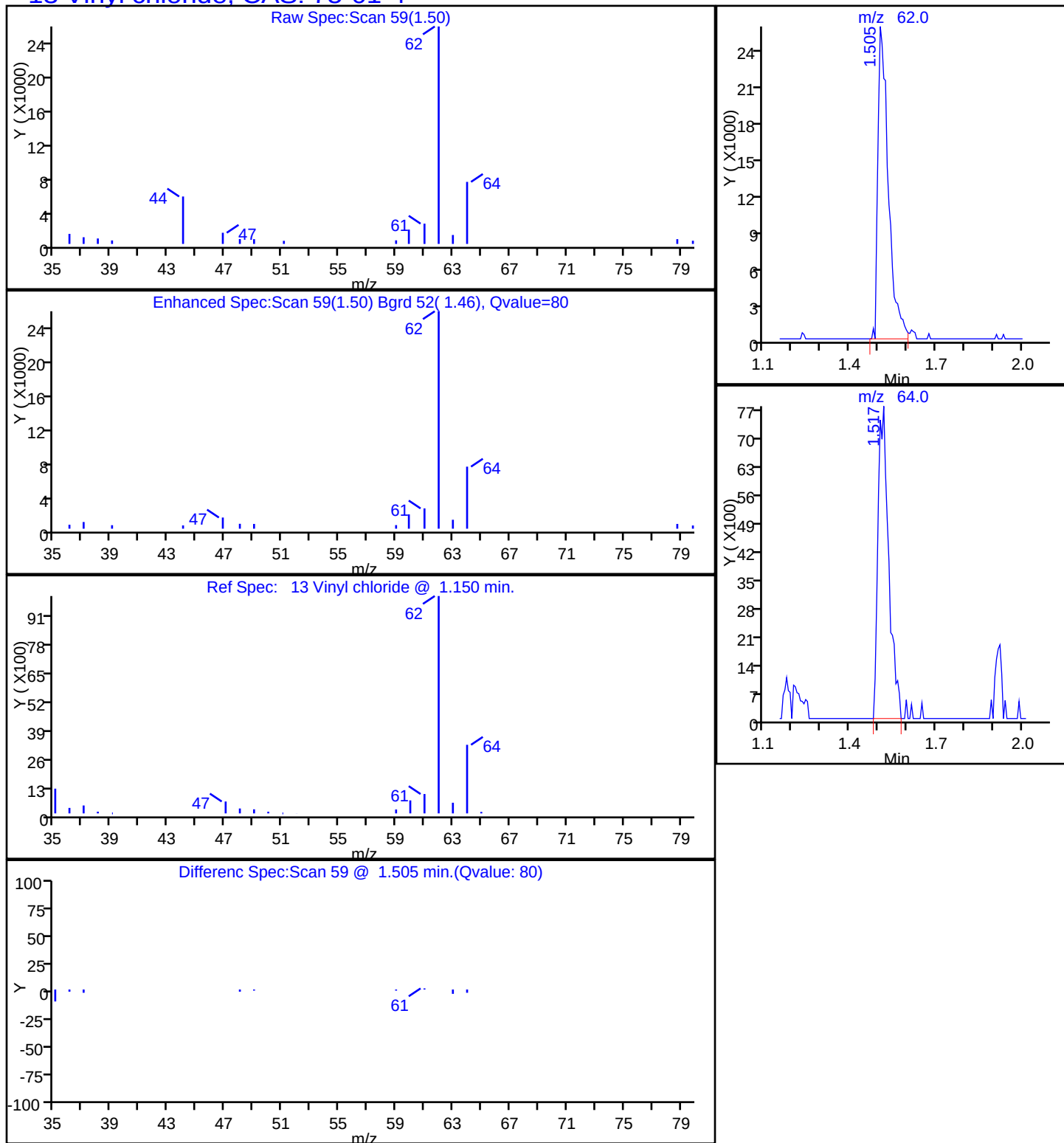
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D
Injection Date: 17-Nov-2015 02:59:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-24 Lab Sample ID: 480-90492-24
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 12 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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4815.D
Injection Date: 17-Nov-2015 02:59:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-24 Lab Sample ID: 480-90492-24
Client ID: 4009-29D
Operator ID: SO ALS Bottle#: 12 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

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-30 Lab Sample ID: 480-90492-25

Matrix: Water Lab File ID: S4816.D

Analysis Method: 8260C Date Collected: 11/04/2015 09:40

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 03:22

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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	0.52	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	0.44	J	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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-30</u>	Lab Sample ID: <u>480-90492-25</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4816.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 03:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4816.D
 Lims ID: 480-90492-A-25 Lab Sample ID: 480-90492-25
 Client ID: 4009-30
 Sample Type: Client
 Inject. Date: 17-Nov-2015 03:22:30 ALS Bottle#: 13 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-25
 Misc. Info.: 480-0048406-015
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:45:05 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:47:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	178303	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	336295	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.783	0.006	97	285336	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.805	4.811	-0.006	60	196264	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	150347	27.1	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	808975	27.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	220255	26.8	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.741	2.728	0.013	79	10631	2.87	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	30	8571	0.5154	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.139	5.133	0.006	60	13404	0.4434	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.748	5.748	0.000	11	794	0.1077	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4816.D

Injection Date: 17-Nov-2015 03:22:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-25

Lab Sample ID: 480-90492-25

Worklist Smp#: 15

Client ID: 4009-30

Purge Vol: 5.000 mL

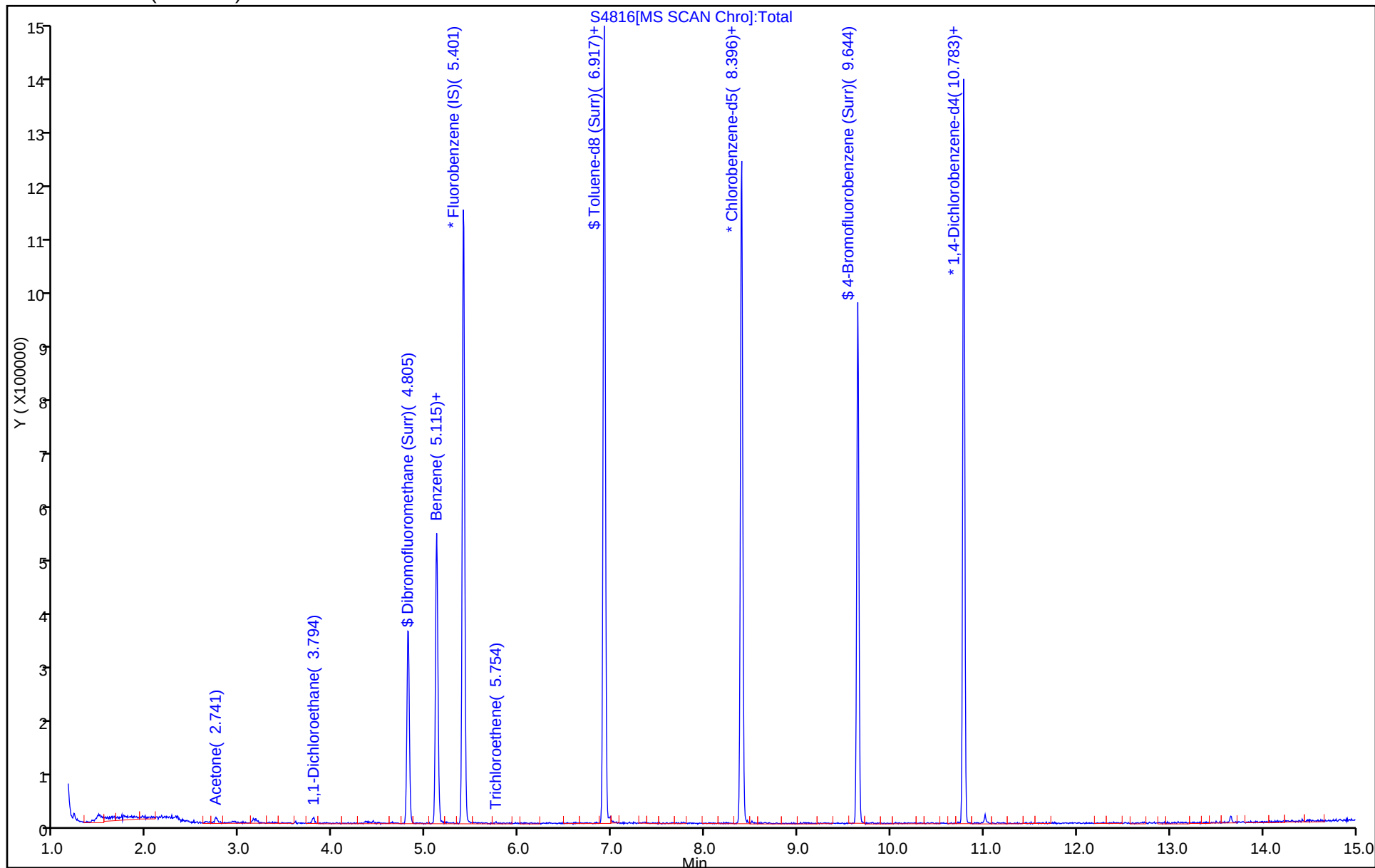
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: S-8260

Limit Group: MV - 8260C ICAL

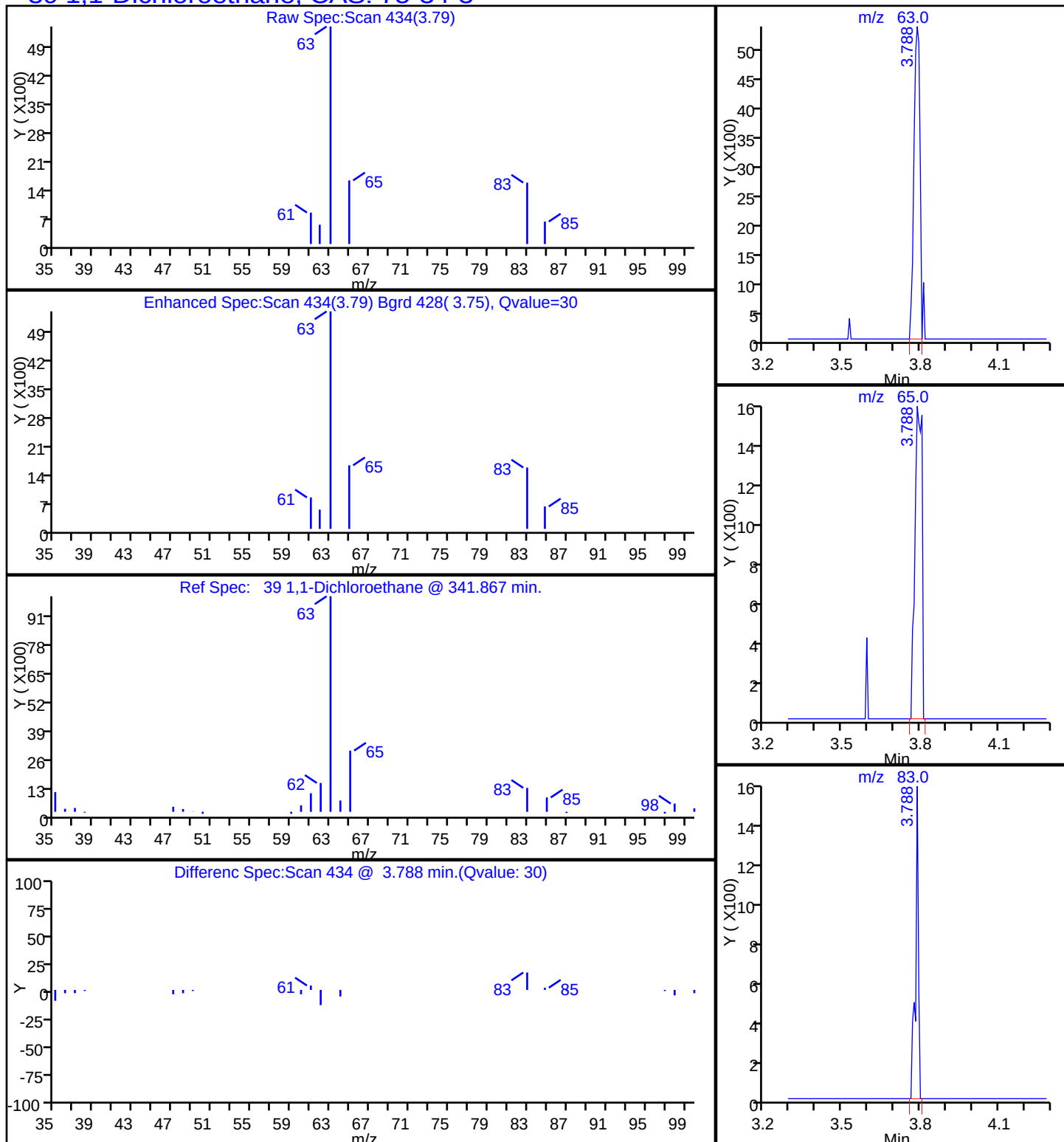
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

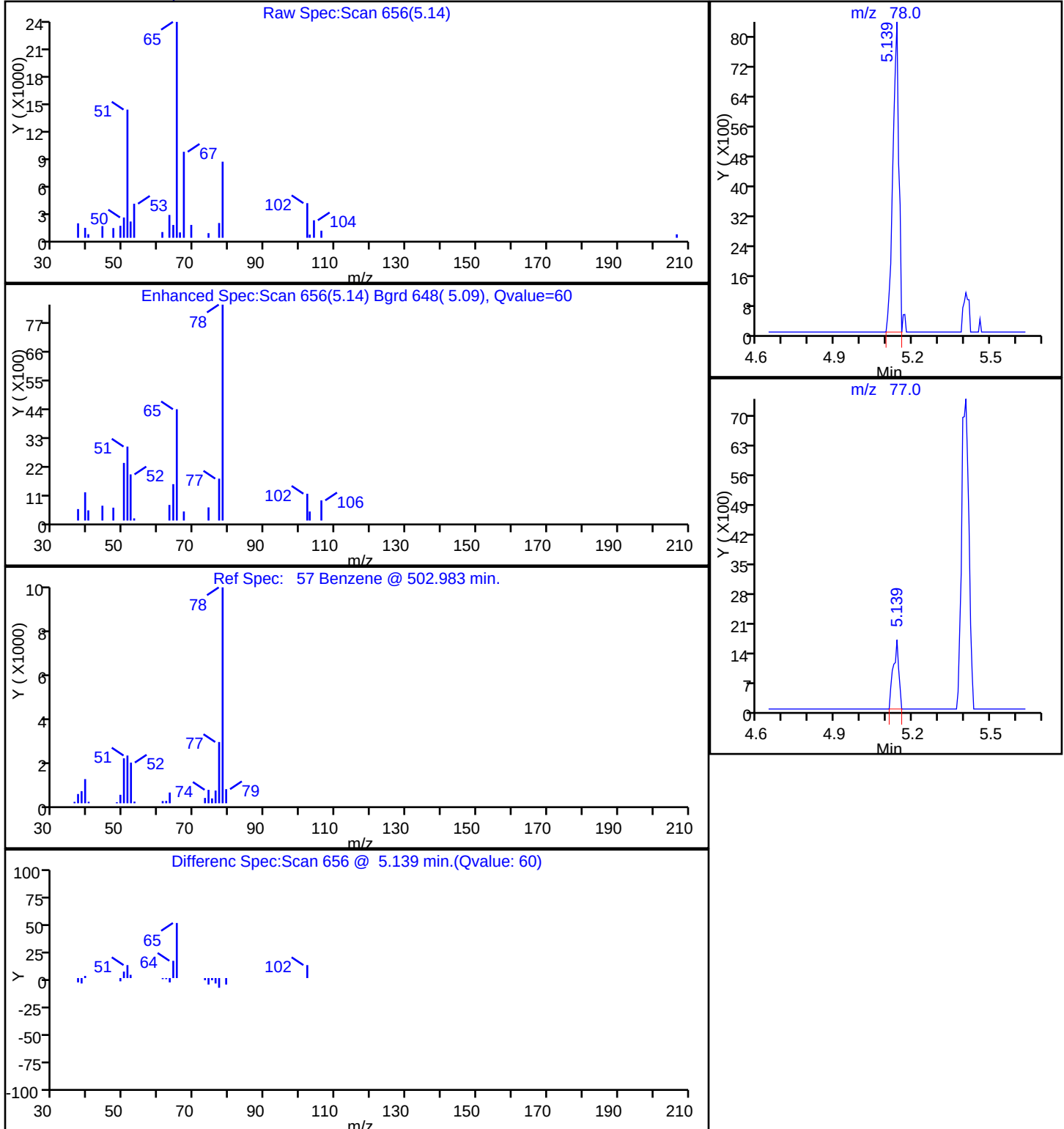
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Injection Date: 17-Nov-2015 03:22:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-25 Lab Sample ID: 480-90492-25
Client ID: 4009-30
Operator ID: SO ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4816.D
Injection Date: 17-Nov-2015 03:22:30 Instrument ID: HP5973S
Lims ID: 480-90492-A-25 Lab Sample ID: 480-90492-25
Client ID: 4009-30
Operator ID: SO ALS Bottle#: 13 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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-30A</u>	Lab Sample ID: <u>480-90492-26</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4817.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 03:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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	0.60	J	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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-30A Lab Sample ID: 480-90492-26

Matrix: Water Lab File ID: S4817.D

Analysis Method: 8260C Date Collected: 11/04/2015 09:45

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 03:45

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4817.D
 Lims ID: 480-90492-A-26 Lab Sample ID: 480-90492-26
 Client ID: 4009-30A
 Sample Type: Client
 Inject. Date: 17-Nov-2015 03:45:30 ALS Bottle#: 14 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-26
 Misc. Info.: 480-0048406-016
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:45:05 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:48:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	96	169441	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.396	-0.006	90	321296	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	279579	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	-0.001	56	190800	27.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	151505	28.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	790456	27.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	211614	27.0	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.735	2.728	0.006	75	2307	0.6551	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	42	17340	0.6036	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4817.D

Injection Date: 17-Nov-2015 03:45:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-26

Lab Sample ID: 480-90492-26

Worklist Smp#: 16

Client ID: 4009-30A

Purge Vol: 5.000 mL

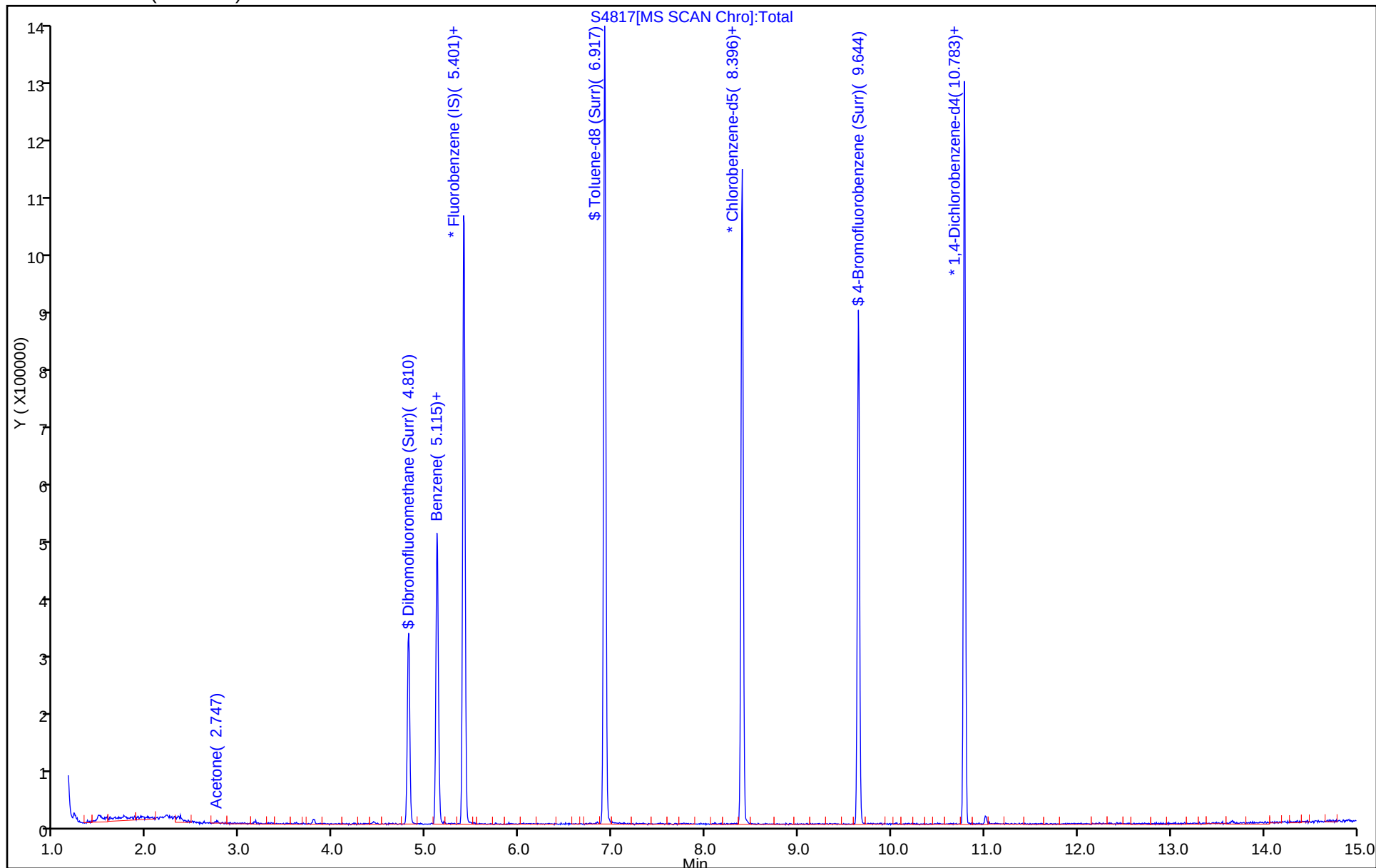
Dil. Factor: 1.0000

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\20151116-48406.b\S4817.D

Injection Date: 17-Nov-2015 03:45:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-26

Lab Sample ID: 480-90492-26

Client ID: 4009-30A

Operator ID: SO

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

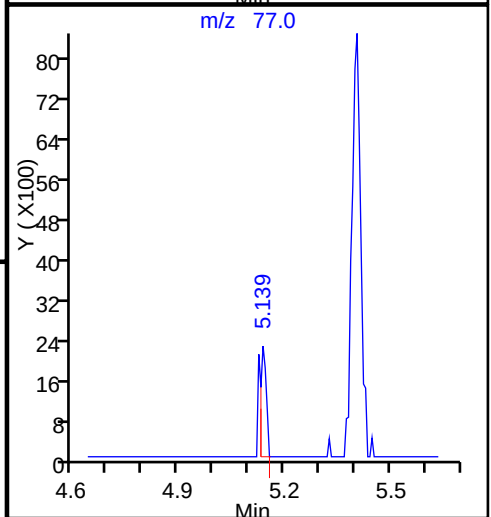
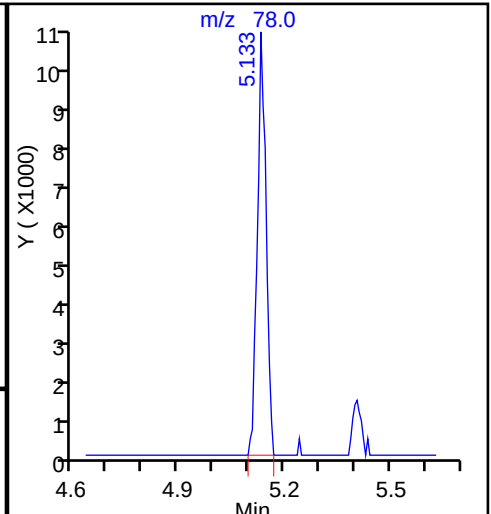
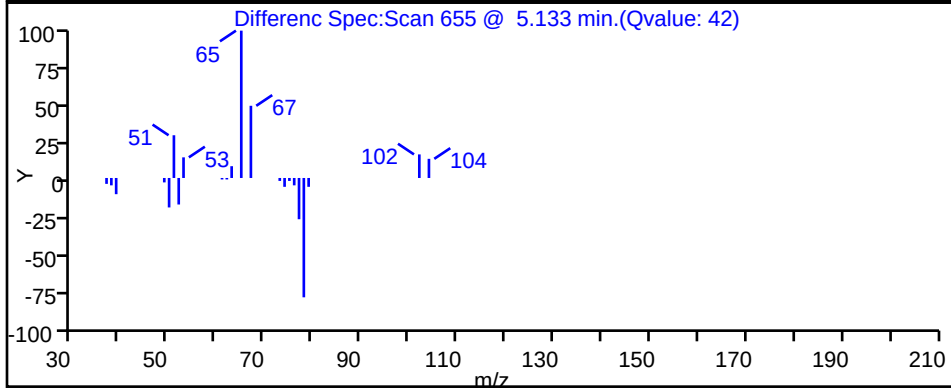
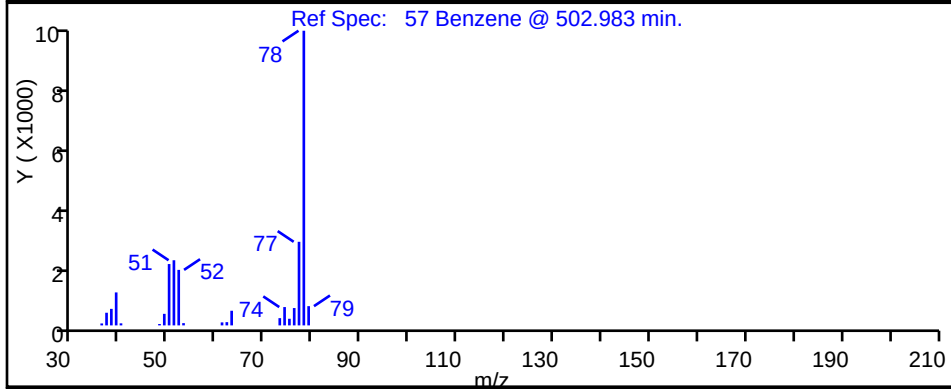
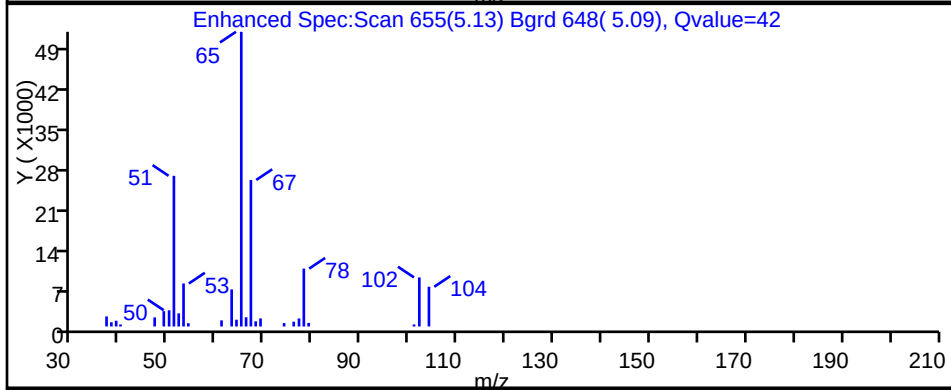
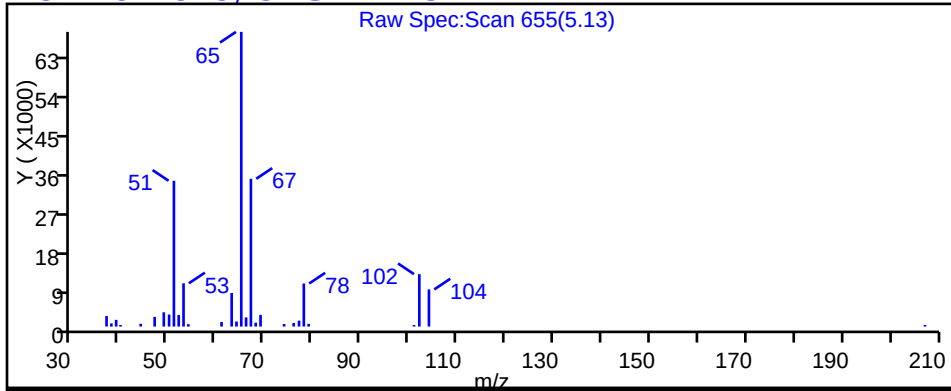
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-11A</u>	Lab Sample ID: <u>480-90492-27</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4818.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 11:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 04:08</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-11A Lab Sample ID: 480-90492-27

Matrix: Water Lab File ID: S4818.D

Analysis Method: 8260C Date Collected: 11/04/2015 11:25

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 04:08

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4818.D
 Lims ID: 480-90492-A-27 Lab Sample ID: 480-90492-27
 Client ID: 4009-11A
 Sample Type: Client
 Inject. Date: 17-Nov-2015 04:08:30 ALS Bottle#: 15 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-27
 Misc. Info.: 480-0048406-017
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:45:05 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:48:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	177975	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	344963	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	299536	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	57	196072	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	153410	27.7	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	793752	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	213780	25.4	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.747	2.728	0.019	86	5563	1.50	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4818.D

Injection Date: 17-Nov-2015 04:08:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-27

Lab Sample ID: 480-90492-27

Worklist Smp#: 17

Client ID: 4009-11A

Purge Vol: 5.000 mL

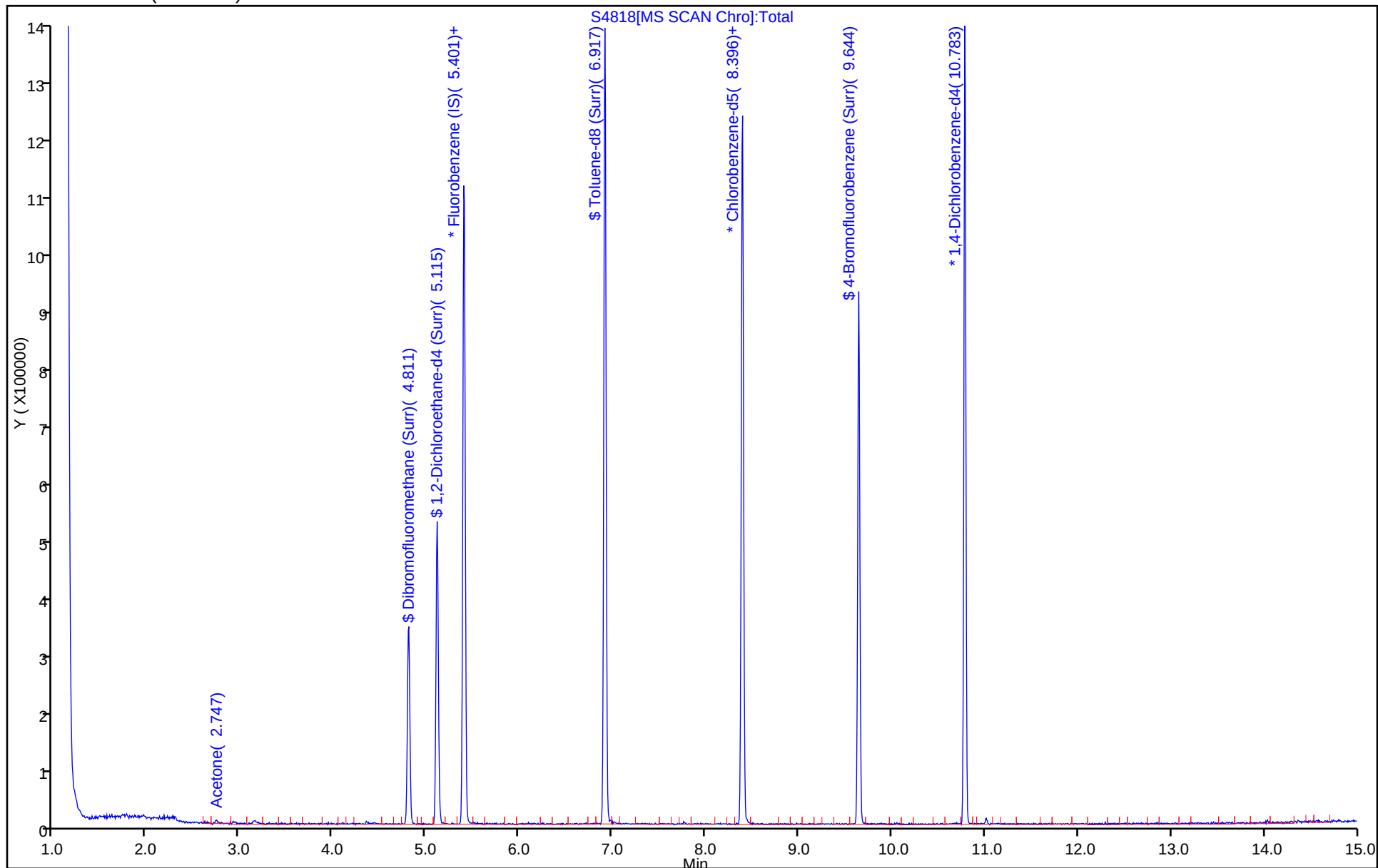
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: DUP-1 Lab Sample ID: 480-90492-28

Matrix: Water Lab File ID: S4836.D

Analysis Method: 8260C Date Collected: 11/04/2015 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 12:10

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275377 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	68		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	26		1.0	0.38
75-35-4	1,1-Dichloroethene	7.8		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	2.2		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	17		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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: DUP-1 Lab Sample ID: 480-90492-28
 Matrix: Water Lab File ID: S4836.D
 Analysis Method: 8260C Date Collected: 11/04/2015 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 12:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275377 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	11		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	36		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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4836.D
 Lims ID: 480-90492-B-28 Lab Sample ID: 480-90492-28
 Client ID: DUP-1
 Sample Type: Client
 Inject. Date: 17-Nov-2015 12:10:30 ALS Bottle#: 33 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-b-28
 Misc. Info.: 480-0048414-027
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 14:06:51 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: gentilej

Date: 17-Nov-2015 14:06:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	189123	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.390	0.006	88	357564	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	97	302753	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.804	0.000	58	216155	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	158198	26.9	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	825457	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	227926	26.1	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.505	1.511	-0.006	81	347497	36.1	
14 Bromomethane	94		1.803				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.661				ND	
22 1,1-Dichloroethene	96	2.662	2.661	0.001	78	56255	7.82	
23 Acetone	43	2.741	2.740	0.001	85	6661	1.69	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.045				ND	
30 Methylene Chloride	84		3.173				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	51	1791	0.2489	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	459638	26.1	
45 cis-1,2-Dichloroethene	96	4.342	4.348	-0.006	76	140883	17.1	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	86	640357	67.6	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78	5.133	5.133	0.000	85	71313	2.22	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	1	2350	0.1547	
62 Trichloroethene	95	5.748	5.748	0.000	87	88372	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.973				ND	
68 Dichlorobromomethane	83		6.265				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825				ND	
74 Toluene	92	6.984	6.984	0.000	54	4096	0.2130	
77 trans-1,3-Dichloropropene	75		7.245				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.519				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.836				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.328				ND	
94 Isopropylbenzene	105		9.455				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4836.D

Injection Date: 17-Nov-2015 12:10:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: 480-90492-B-28

Lab Sample ID: 480-90492-28

Worklist Smp#: 27

Client ID: DUP-1

Purge Vol: 5.000 mL

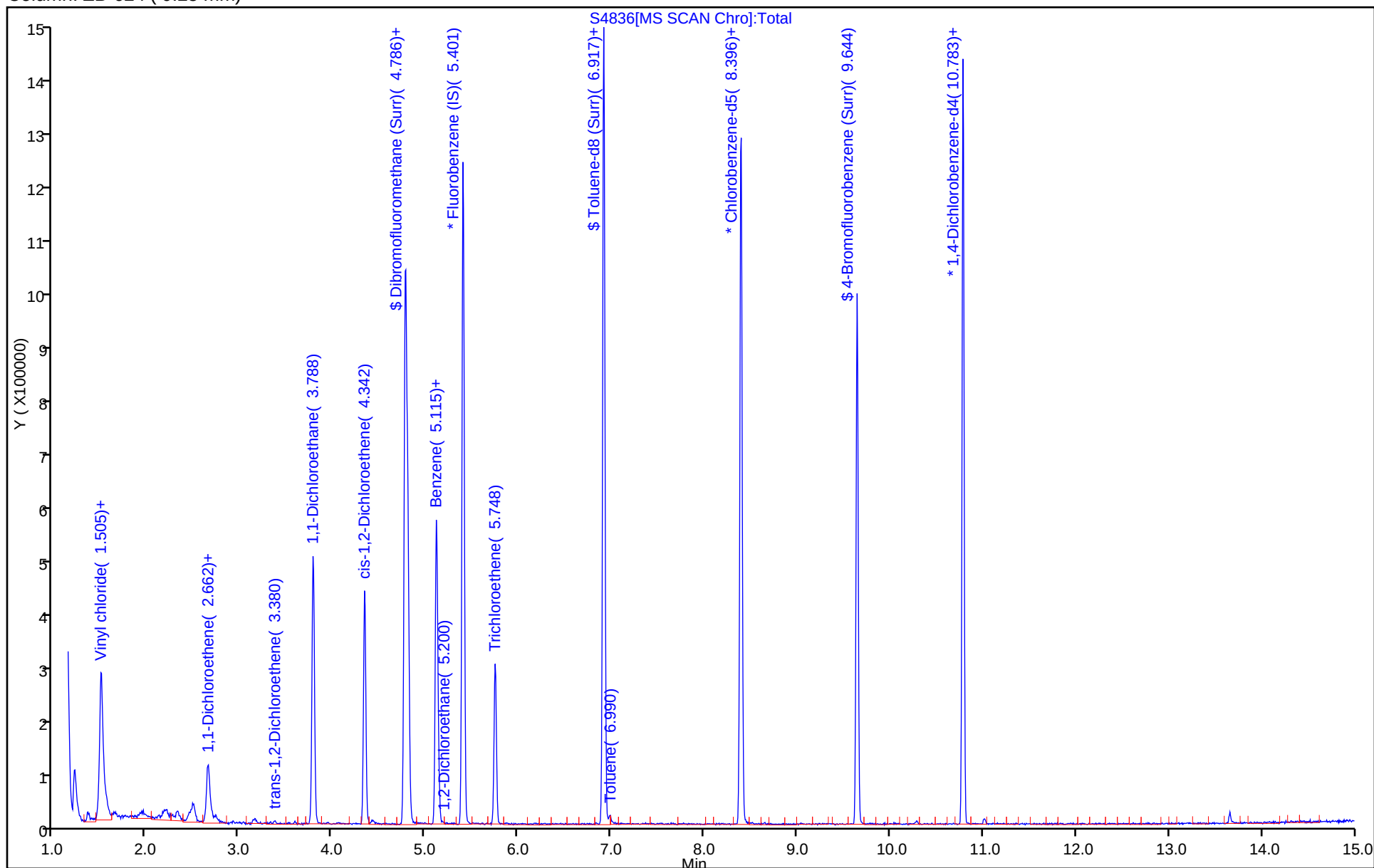
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4836.D

Injection Date: 17-Nov-2015 12:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-B-28

Lab Sample ID: 480-90492-28

Client ID: DUP-1

Operator ID: JG

ALS Bottle#: 33

Worklist Smp#: 27

Purge Vol: 5.000 mL

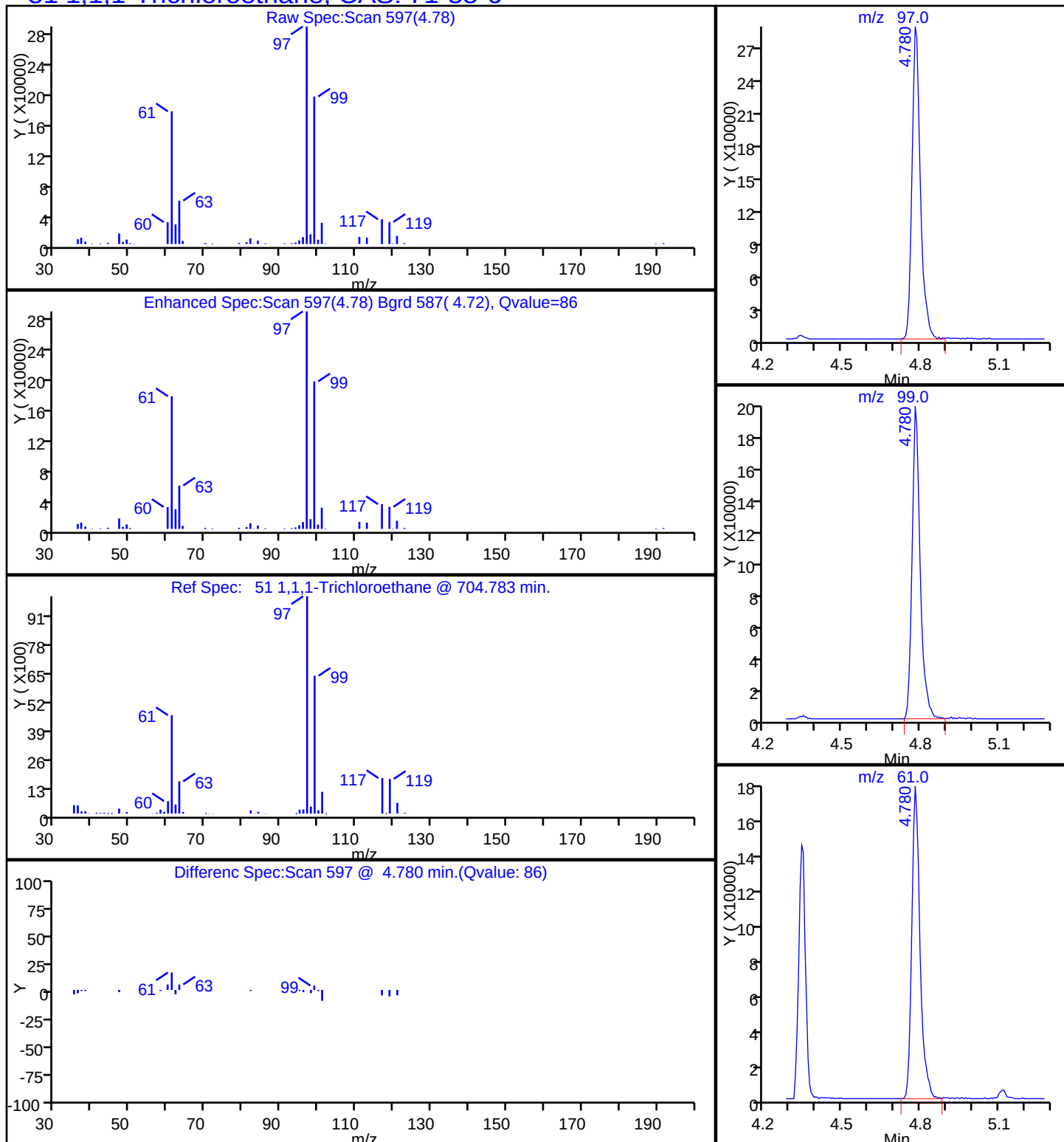
Dil. Factor: 1.0000

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\20151117-48414.b\S4836.D

Injection Date: 17-Nov-2015 12:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-B-28

Lab Sample ID: 480-90492-28

Client ID: DUP-1

Operator ID: JG

ALS Bottle#: 33

Worklist Smp#: 27

Purge Vol: 5.000 mL

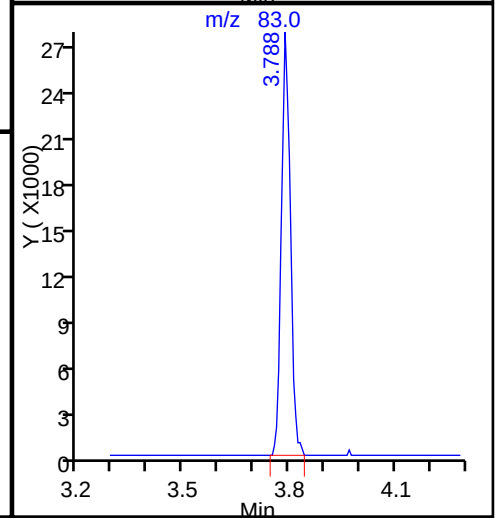
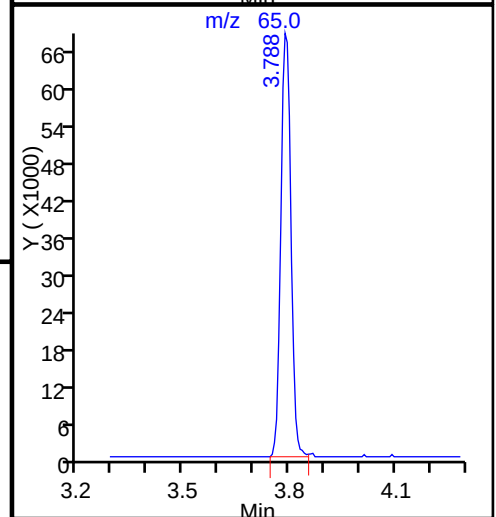
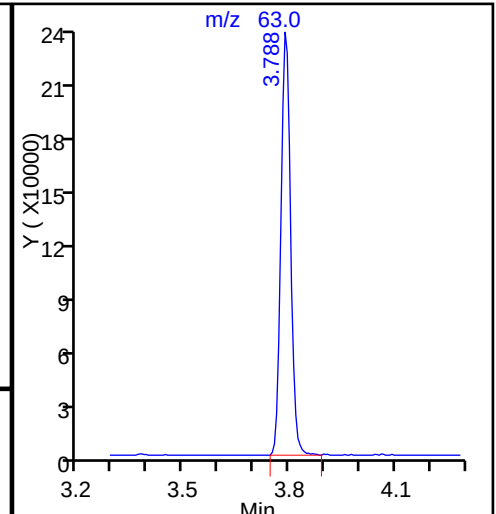
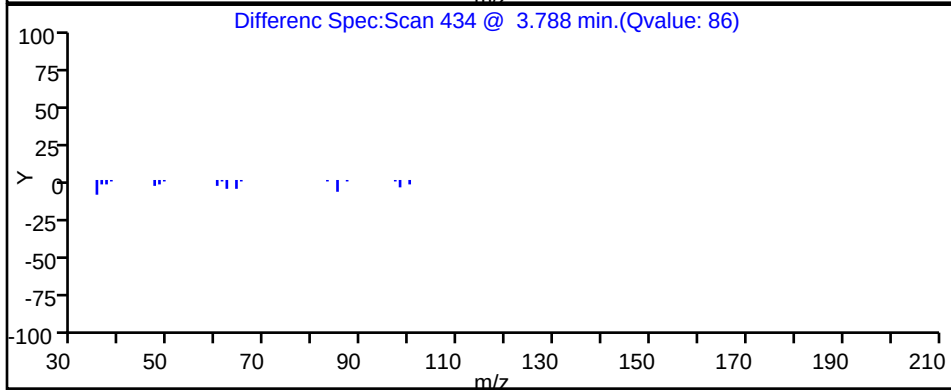
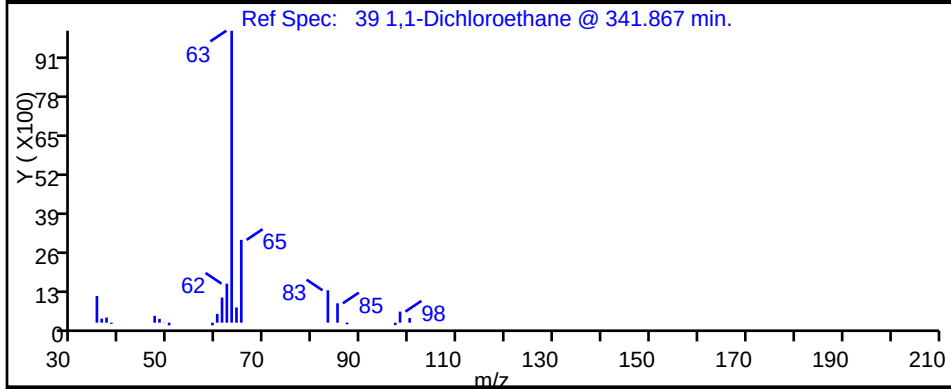
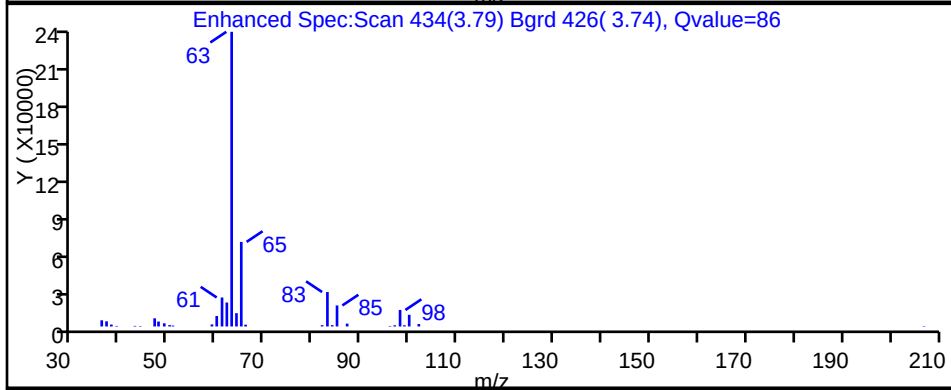
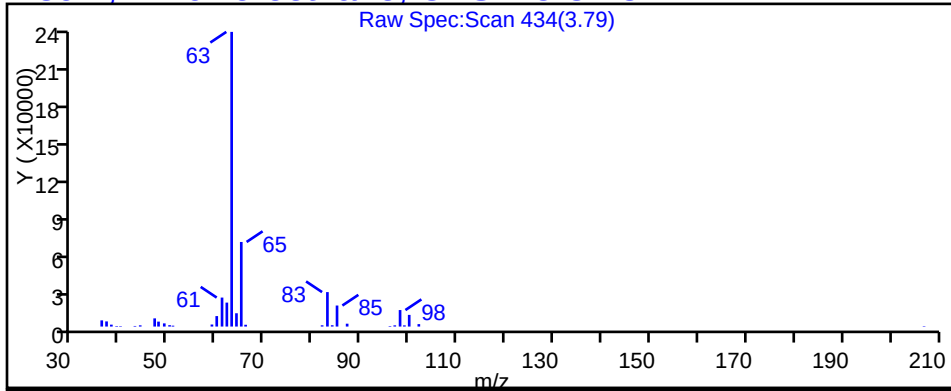
Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

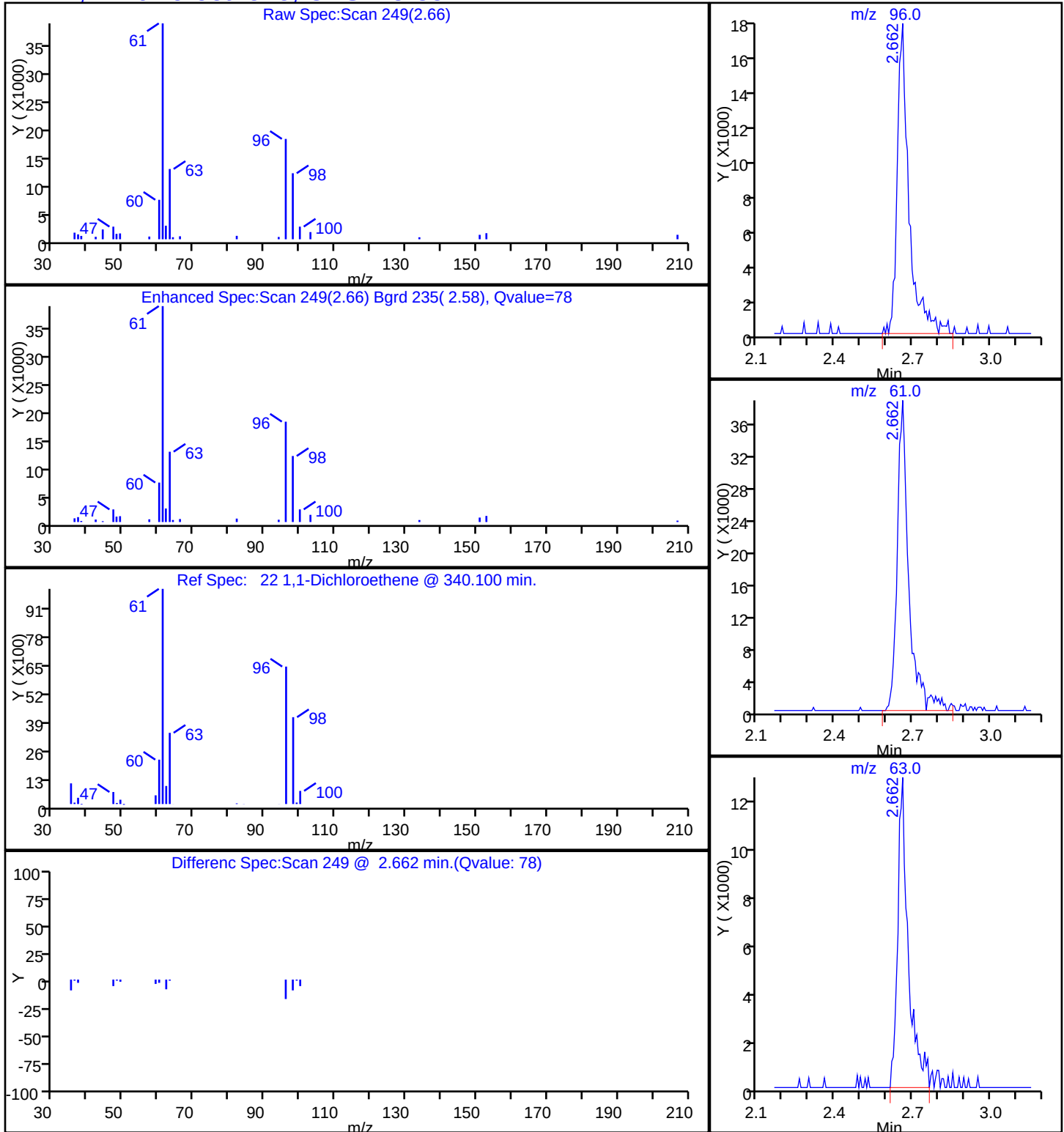
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

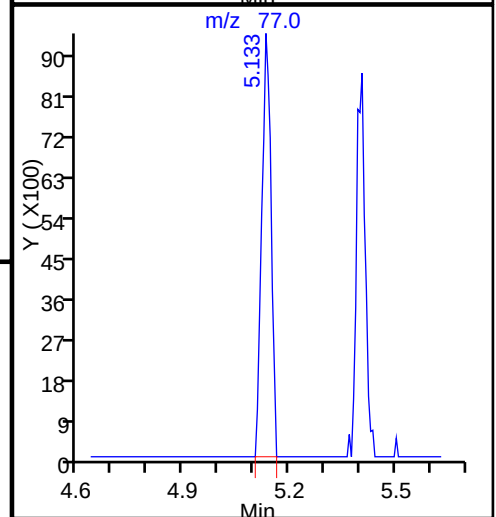
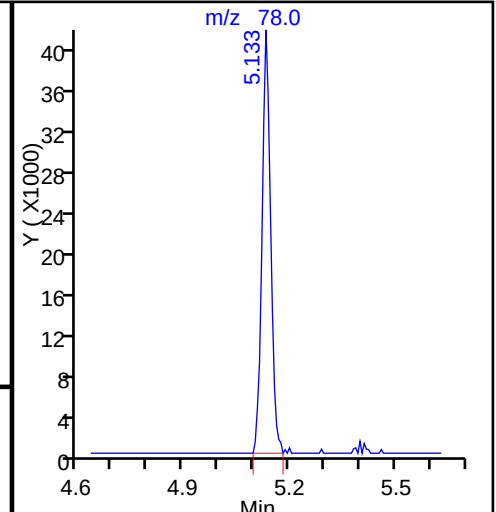
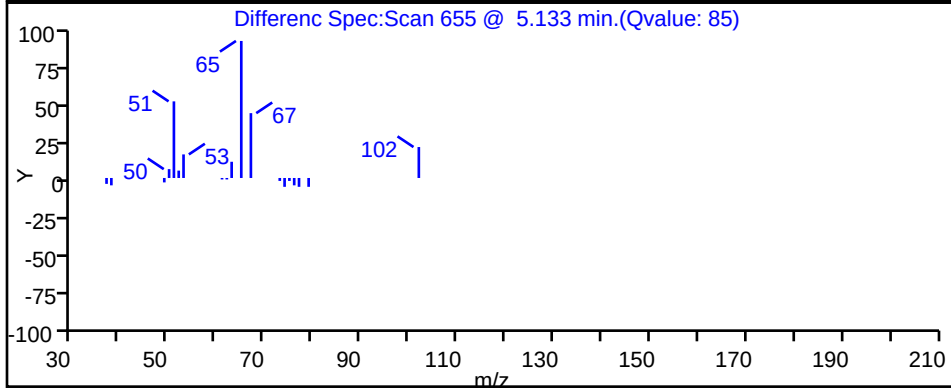
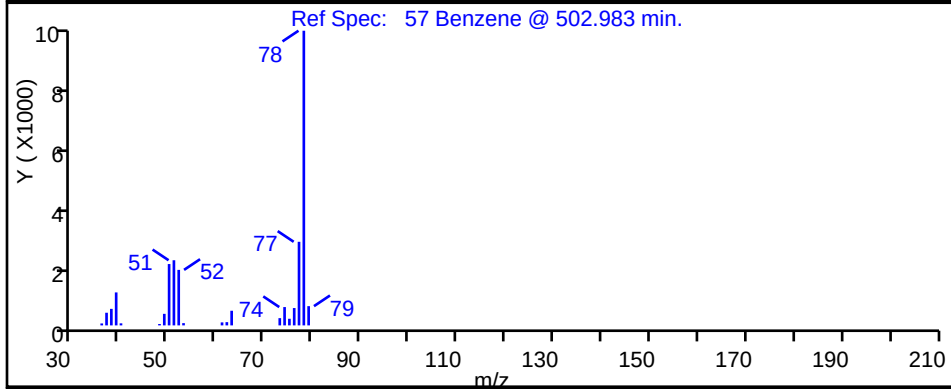
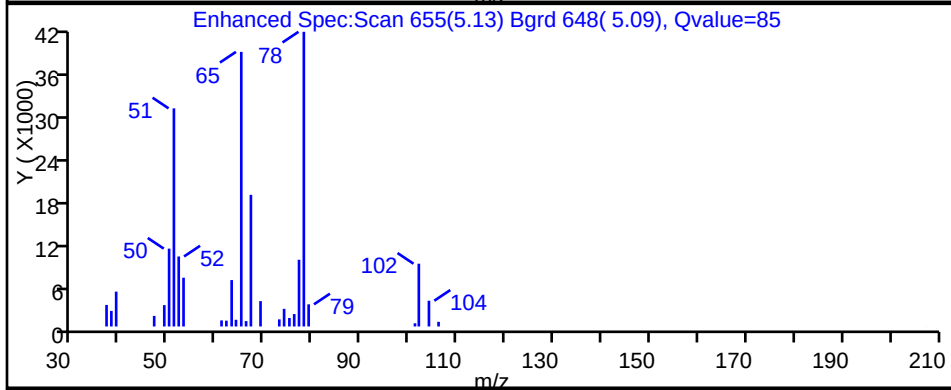
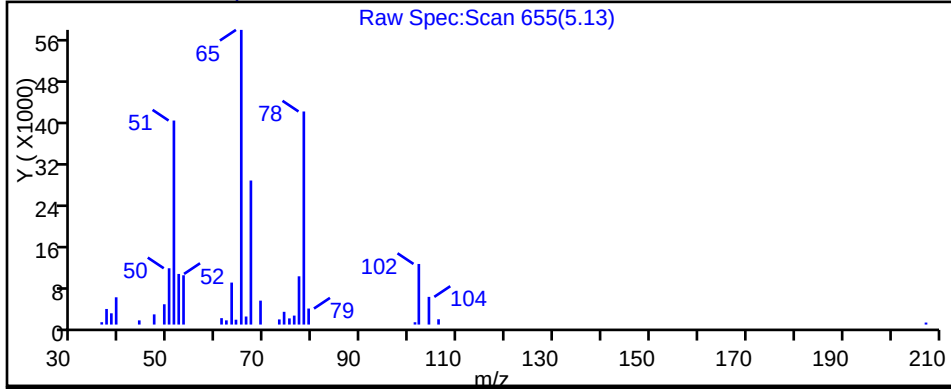
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4836.D
Injection Date: 17-Nov-2015 12:10:30 Instrument ID: HP5973S
Lims ID: 480-90492-B-28 Lab Sample ID: 480-90492-28
Client ID: DUP-1
Operator ID: JG ALS Bottle#: 33 Worklist Smp#: 27
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\20151117-48414.b\S4836.D
Injection Date: 17-Nov-2015 12:10:30 Instrument ID: HP5973S
Lims ID: 480-90492-B-28 Lab Sample ID: 480-90492-28
Client ID: DUP-1
Operator ID: JG ALS Bottle#: 33 Worklist Smp#: 27
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\20151117-48414.b\S4836.D

Injection Date: 17-Nov-2015 12:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-B-28

Lab Sample ID: 480-90492-28

Client ID: DUP-1

Operator ID: JG

ALS Bottle#: 33

Worklist Smp#: 27

Purge Vol: 5.000 mL

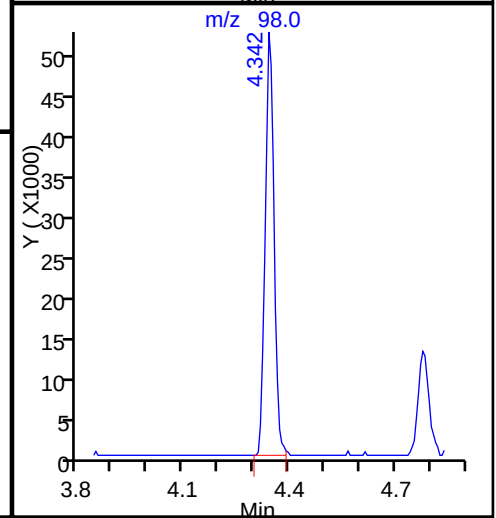
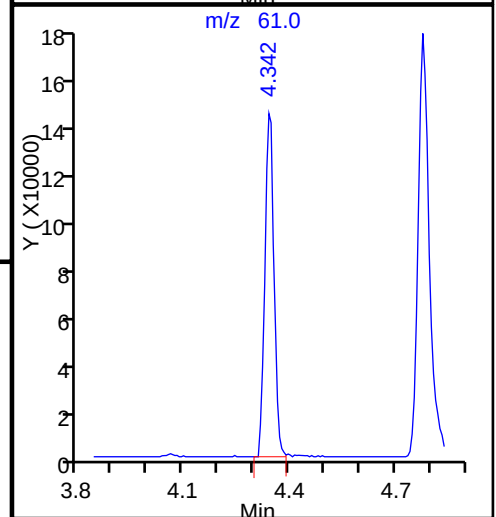
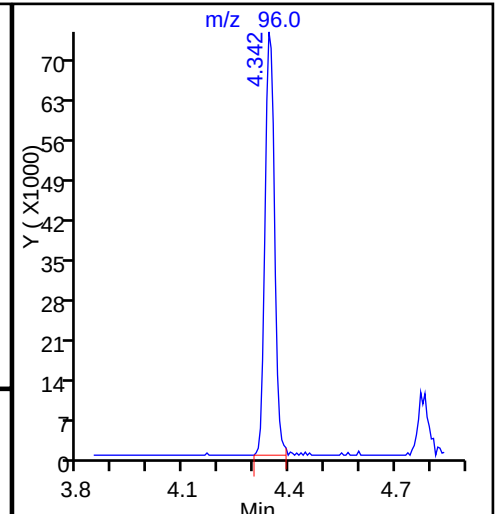
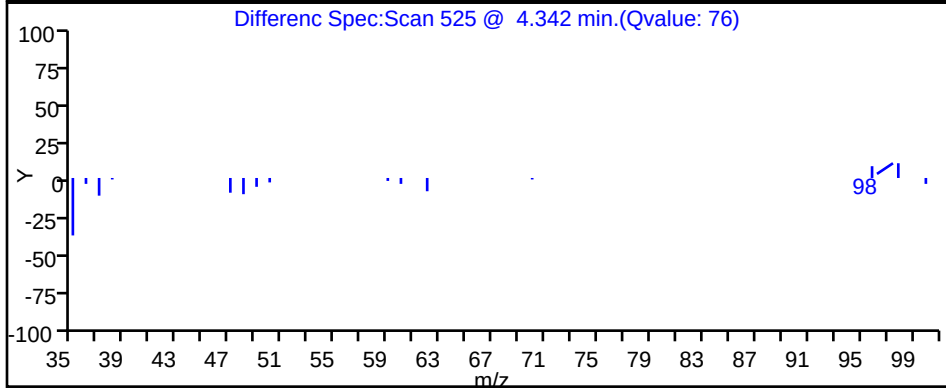
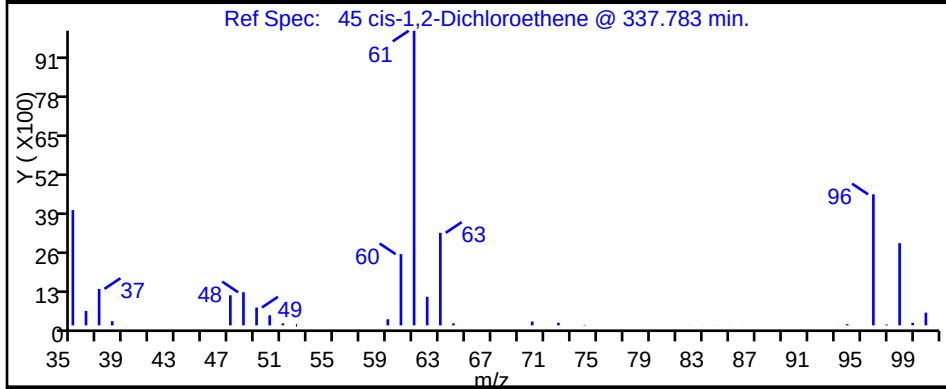
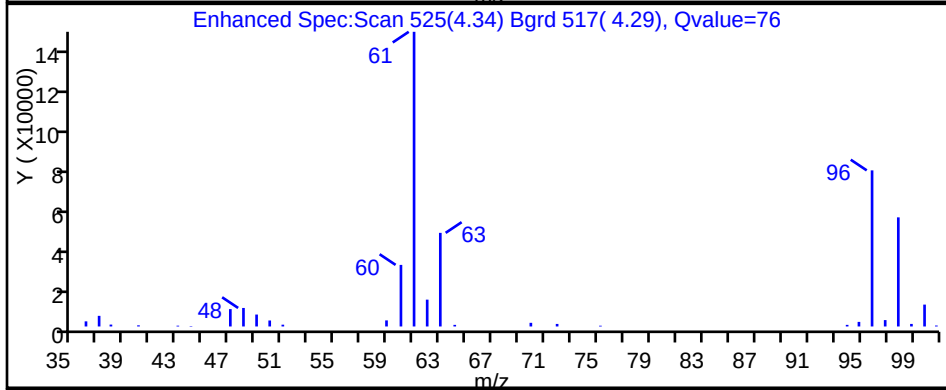
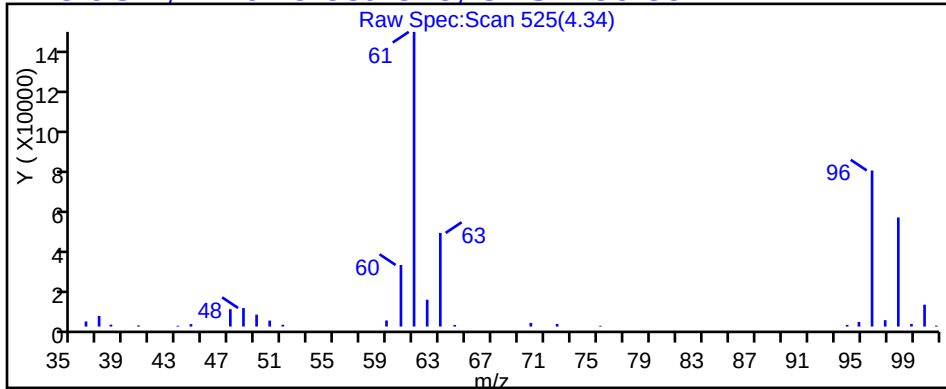
Dil. Factor: 1.0000

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\20151117-48414.b\S4836.D

Injection Date: 17-Nov-2015 12:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-B-28

Lab Sample ID: 480-90492-28

Client ID: DUP-1

Operator ID: JG

ALS Bottle#: 33

Worklist Smp#: 27

Purge Vol: 5.000 mL

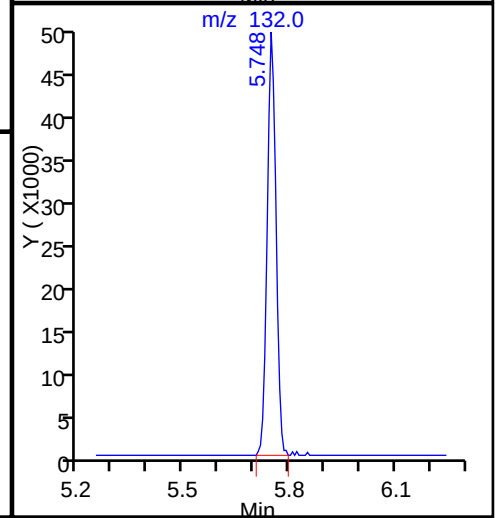
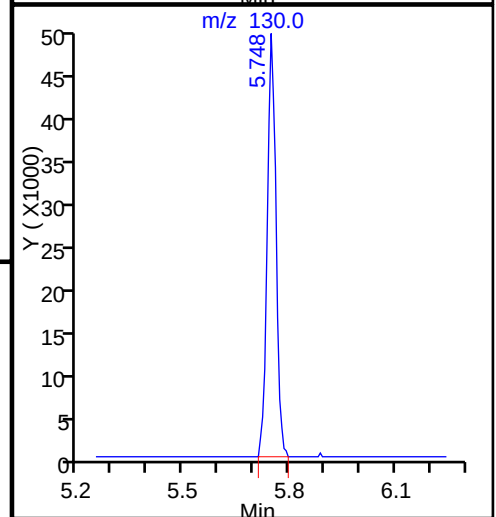
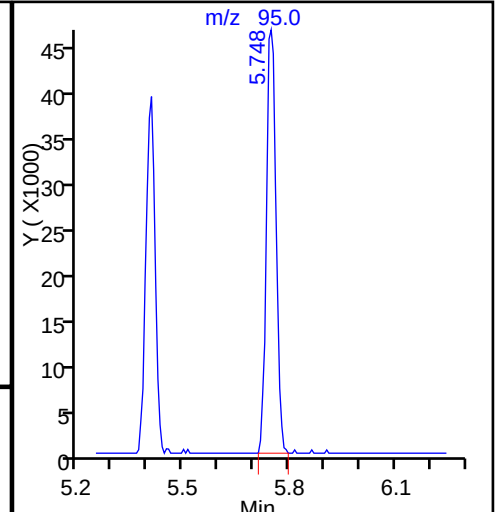
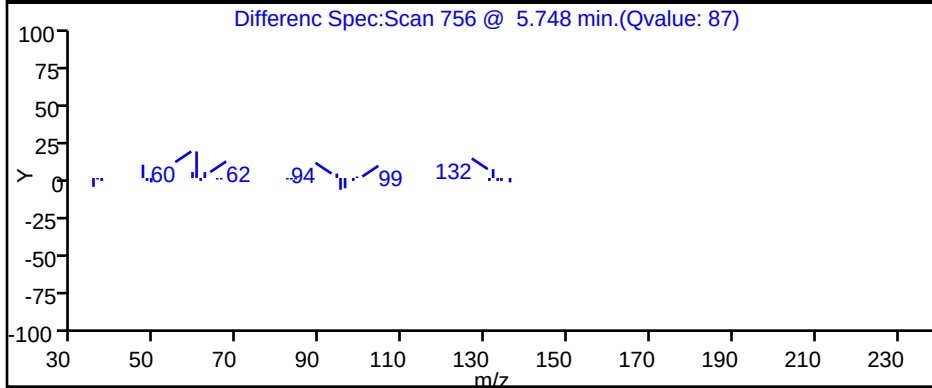
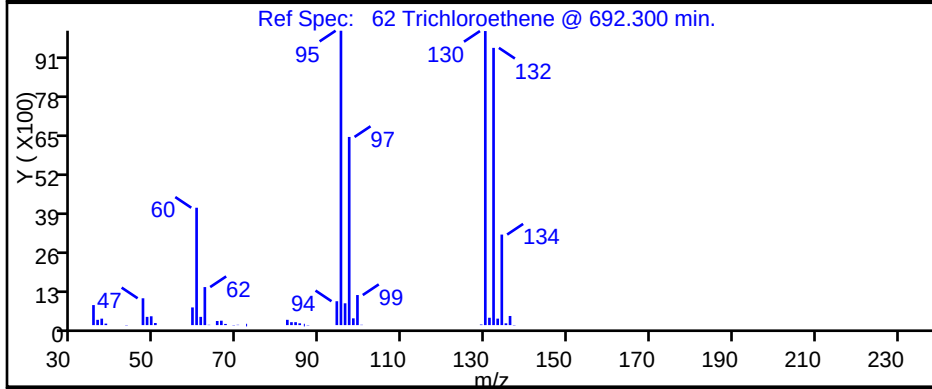
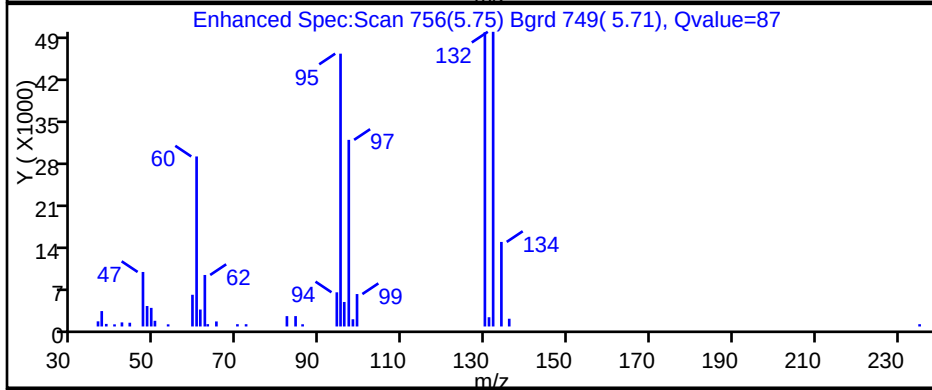
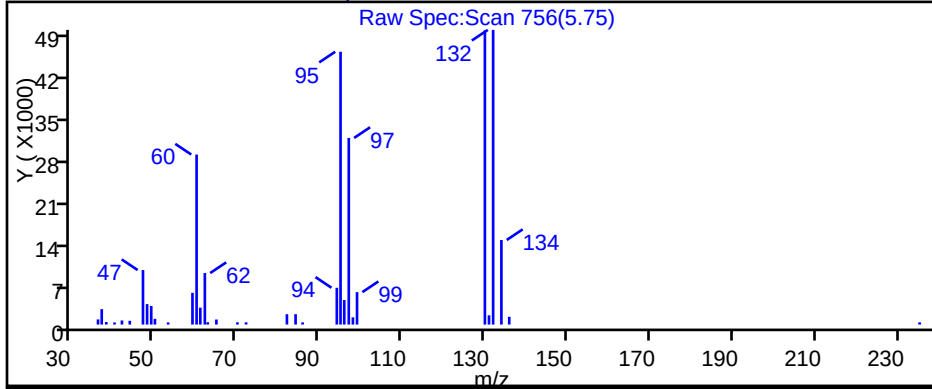
Dil. Factor: 1.0000

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\20151117-48414.b\S4836.D

Injection Date: 17-Nov-2015 12:10:30

Instrument ID: HP5973S

Lims ID: 480-90492-B-28

Lab Sample ID: 480-90492-28

Client ID: DUP-1

Operator ID: JG

ALS Bottle#: 33

Worklist Smp#: 27

Purge Vol: 5.000 mL

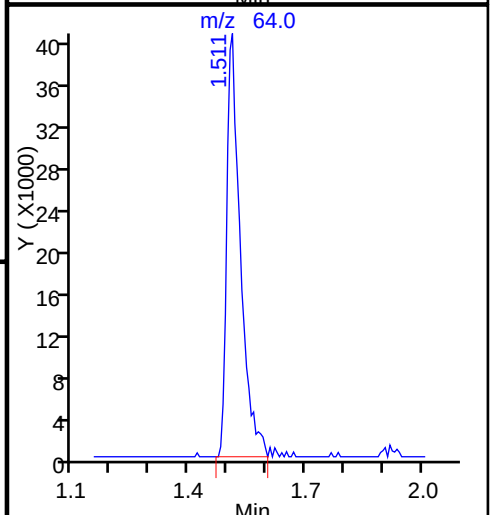
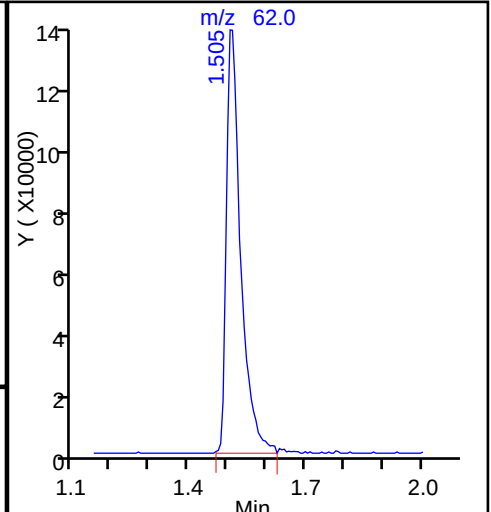
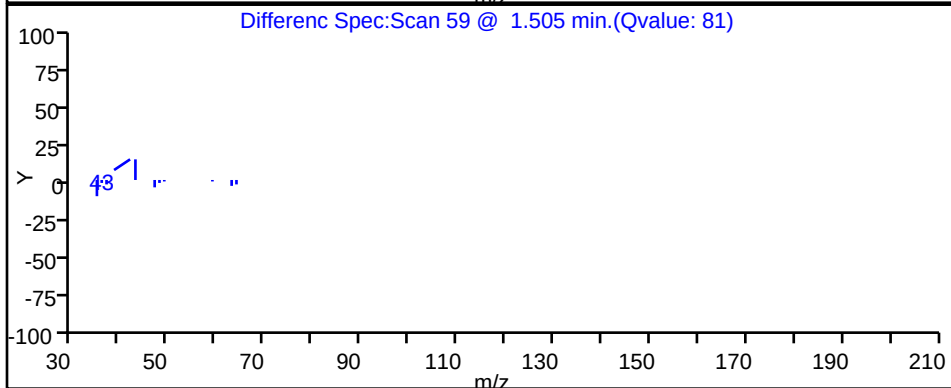
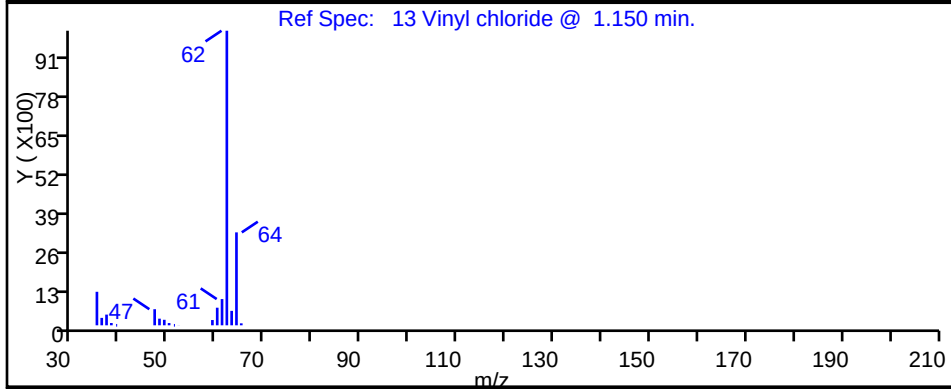
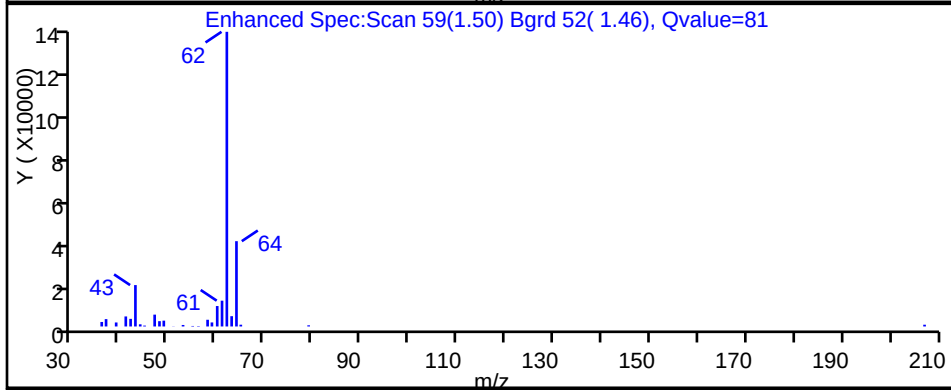
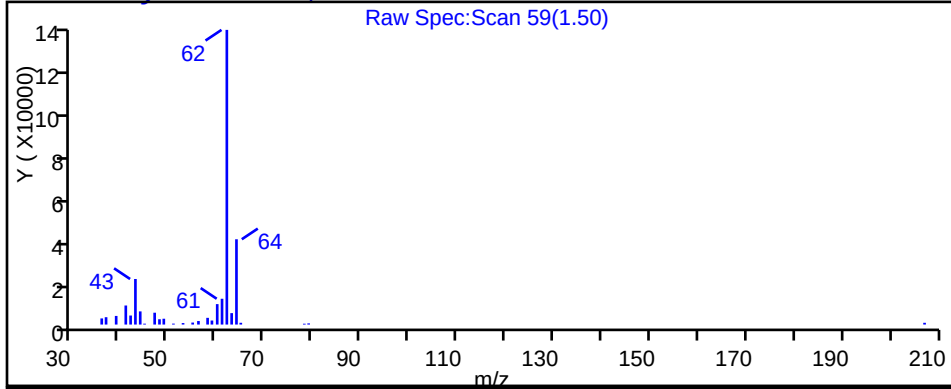
Dil. Factor: 1.0000

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.: 480-90492-1

SDG No.: _____

Client Sample ID: DUP-2 Lab Sample ID: 480-90492-29

Matrix: Water Lab File ID: S4820.D

Analysis Method: 8260C Date Collected: 11/04/2015 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 04:53

Soil Aliquot Vol: _____ Dilution Factor: 20

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1300		20	16
79-34-5	1,1,2,2-Tetrachloroethane	20	U	20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2
79-00-5	1,1,2-Trichloroethane	20	U	20	4.6
75-34-3	1,1-Dichloroethane	81		20	7.6
75-35-4	1,1-Dichloroethene	160		20	5.8
526-73-8	1,2,3-Trimethylbenzene	20	U	20	5.2
120-82-1	1,2,4-Trichlorobenzene	20	U	20	8.2
95-63-6	1,2,4-Trimethylbenzene	20	U	20	15
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	7.8
106-93-4	1,2-Dibromoethane	20	U	20	15
95-50-1	1,2-Dichlorobenzene	20	U	20	16
107-06-2	1,2-Dichloroethane	20	U	20	4.2
78-87-5	1,2-Dichloropropane	20	U	20	14
108-67-8	1,3,5-Trimethylbenzene	20	U	20	15
541-73-1	1,3-Dichlorobenzene	20	U	20	16
106-46-7	1,4-Dichlorobenzene	20	U	20	17
78-93-3	2-Butanone (MEK)	200	U	200	26
591-78-6	2-Hexanone	100	U	100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	42
67-64-1	Acetone	200	U	200	60
71-43-2	Benzene	20	U	20	8.2
75-27-4	Bromodichloromethane	20	U	20	7.8
75-25-2	Bromoform	20	U	20	5.2
74-83-9	Bromomethane	20	U	20	14
75-15-0	Carbon disulfide	20	U	20	3.8
56-23-5	Carbon tetrachloride	20	U	20	5.4
108-90-7	Chlorobenzene	20	U	20	15
75-00-3	Chloroethane	20	U	20	6.4
67-66-3	Chloroform	20	U	20	6.8
74-87-3	Chloromethane	20	U	20	7.0
156-59-2	cis-1,2-Dichloroethene	390		20	16
10061-01-5	cis-1,3-Dichloropropene	20	U	20	7.2
110-82-7	Cyclohexane	20	U	20	3.6
124-48-1	Dibromochloromethane	20	U	20	6.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: DUP-2 Lab Sample ID: 480-90492-29
 Matrix: Water Lab File ID: S4820.D
 Analysis Method: 8260C Date Collected: 11/04/2015 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 04:53
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	20	U	20	14
100-41-4	Ethylbenzene	20	U	20	15
98-82-8	Isopropylbenzene	20	U	20	16
79-20-9	Methyl acetate	50	U	50	26
1634-04-4	Methyl tert-butyl ether	20	U	20	3.2
108-87-2	Methylcyclohexane	20	U	20	3.2
75-09-2	Methylene Chloride	20	U	20	8.8
100-42-5	Styrene	20	U	20	15
127-18-4	Tetrachloroethene	20	U	20	7.2
108-88-3	Toluene	20	U	20	10
156-60-5	trans-1,2-Dichloroethene	20	U	20	18
10061-02-6	trans-1,3-Dichloropropene	20	U	20	7.4
79-01-6	Trichloroethene	440		20	9.2
75-69-4	Trichlorofluoromethane	20	U	20	18
75-01-4	Vinyl chloride	110		20	18
1330-20-7	Xylenes, Total	40	U	40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4820.D
 Lims ID: 480-90492-A-29 Lab Sample ID: 480-90492-29
 Client ID: DUP-2
 Sample Type: Client
 Inject. Date: 17-Nov-2015 04:53:30 ALS Bottle#: 17 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-90492-A-29
 Misc. Info.: 480-0048406-019
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 16:57:00 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 16:57:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.401	5.401	0.000	96	178623	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	339665	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.783	0.006	95	291063	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	-0.001	63	214448	28.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	158310	28.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	819561	27.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	222079	26.8	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62	1.511	1.511	0.000	81	48048	5.29	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96	2.655	2.649	0.006	81	53207	7.83	
23 Acetone	43		2.728				ND	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	73	67616	4.06	
45 cis-1,2-Dichloroethene	96	4.348	4.342	0.006	72	153225	19.6	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97	4.780	4.786	-0.006	88	594206	66.4	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95	5.748	5.748	0.000	1	161873	21.9	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Worklist Smp#: 19

Client ID: DUP-2

Purge Vol: 5.000 mL

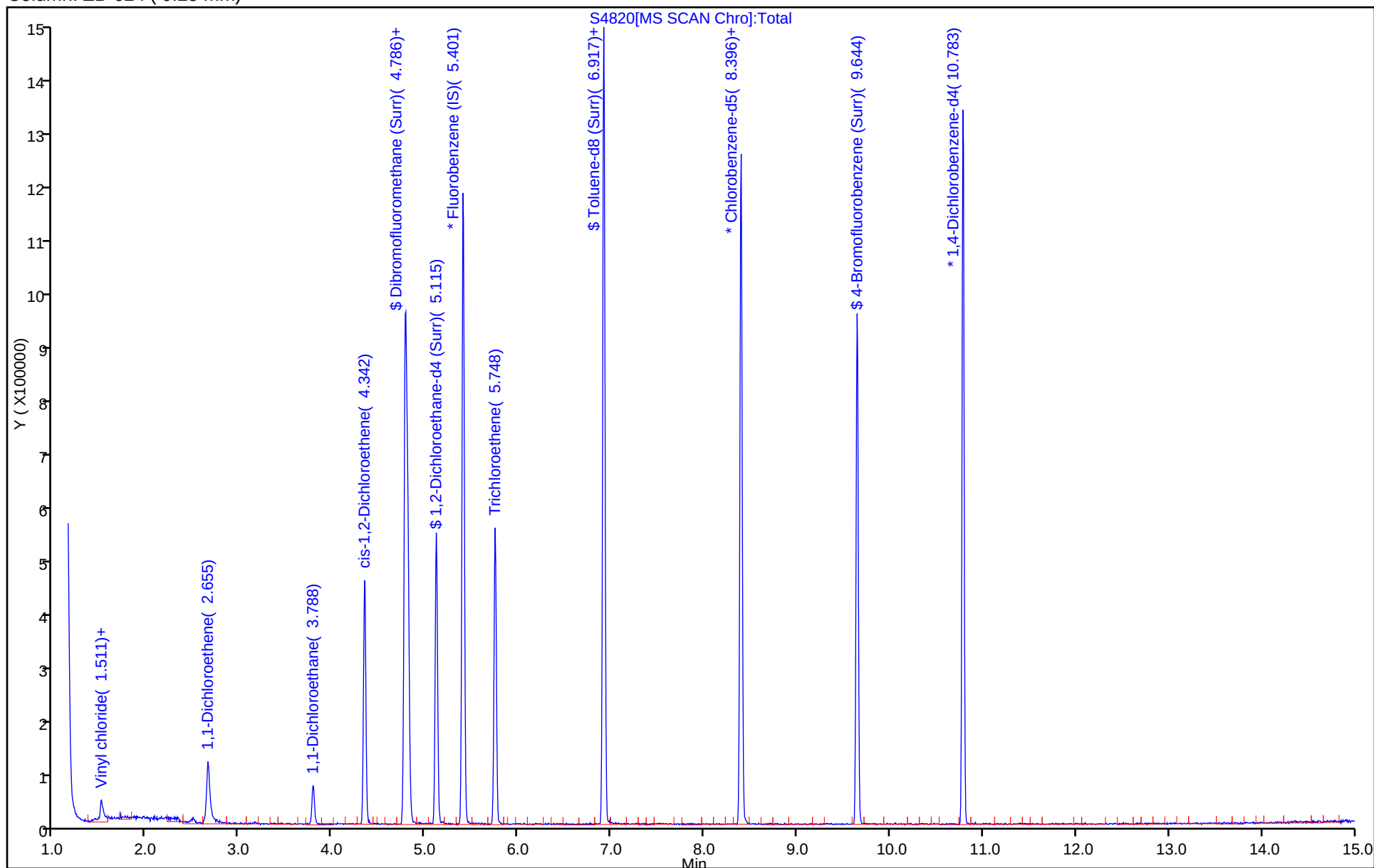
Dil. Factor: 20.0000

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\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Client ID: DUP-2

Operator ID: SO

ALS Bottle#: 17

Worklist Smp#: 19

Purge Vol: 5.000 mL

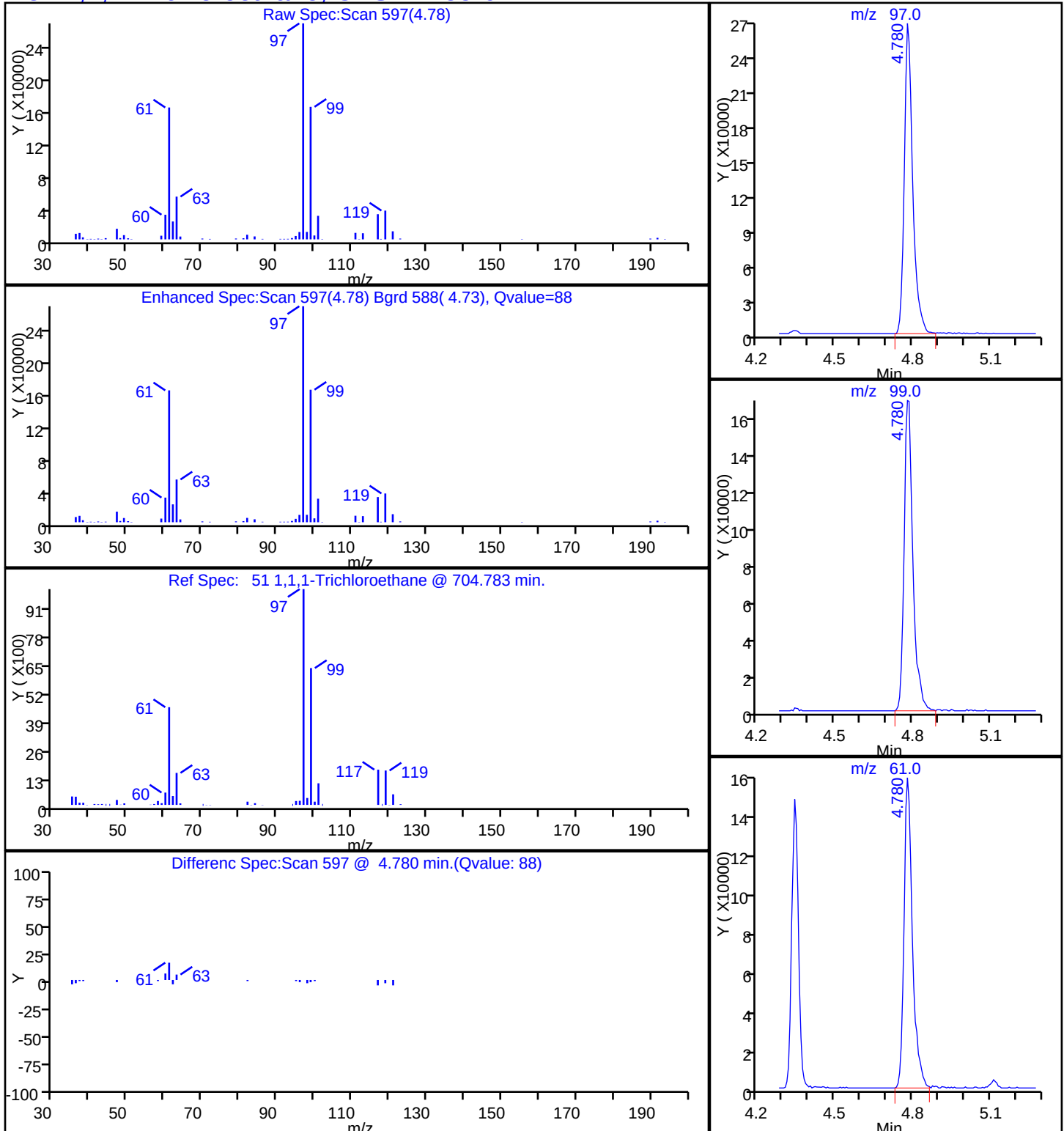
Dil. Factor: 20.0000

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\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Client ID: DUP-2

Operator ID: SO

ALS Bottle#: 17

Worklist Smp#: 19

Purge Vol: 5.000 mL

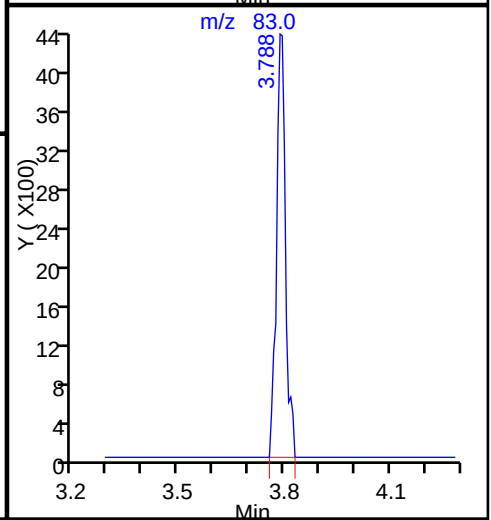
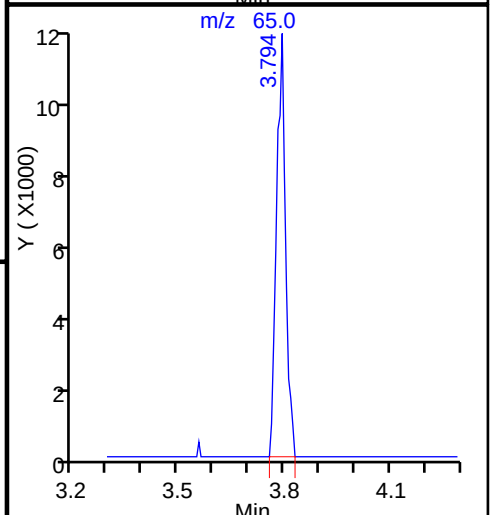
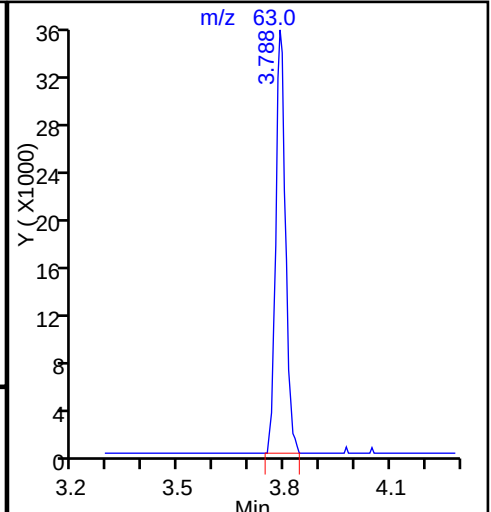
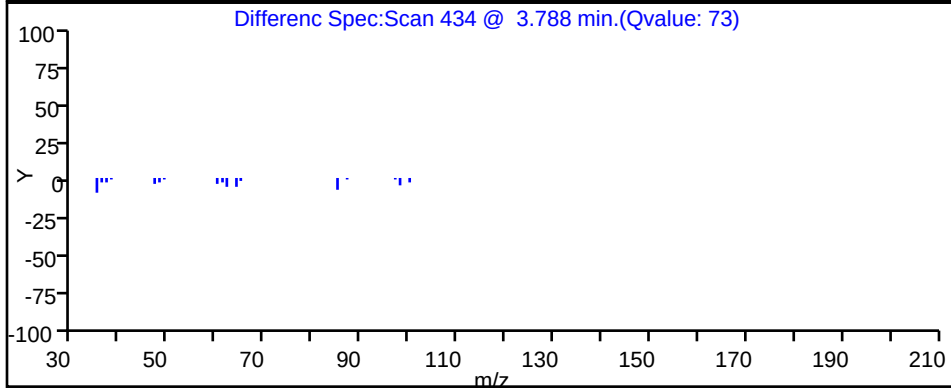
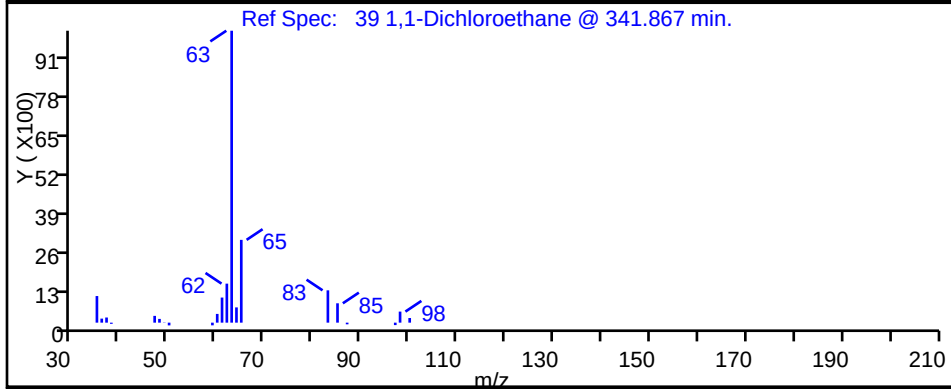
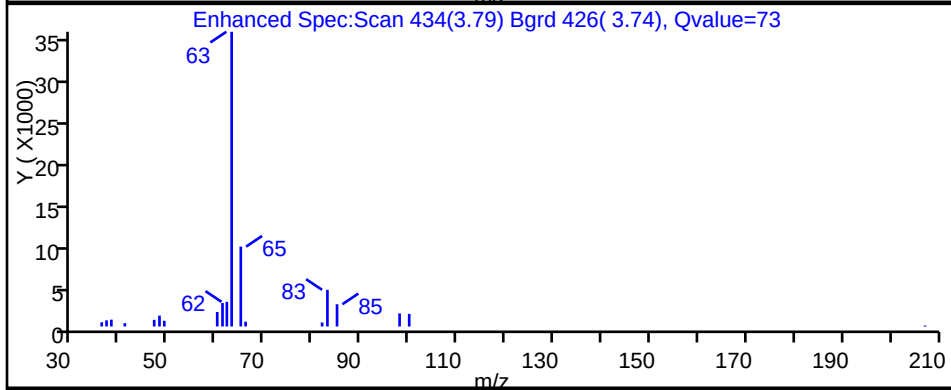
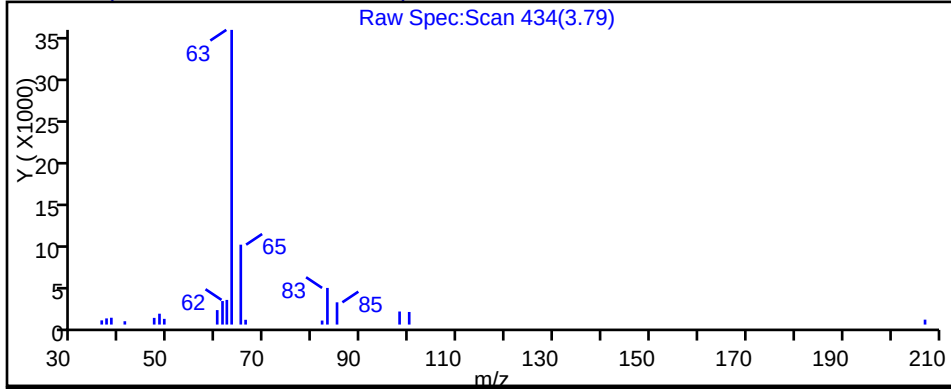
Dil. Factor: 20.0000

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\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Client ID: DUP-2

Operator ID: SO

ALS Bottle#: 17

Worklist Smp#: 19

Purge Vol: 5.000 mL

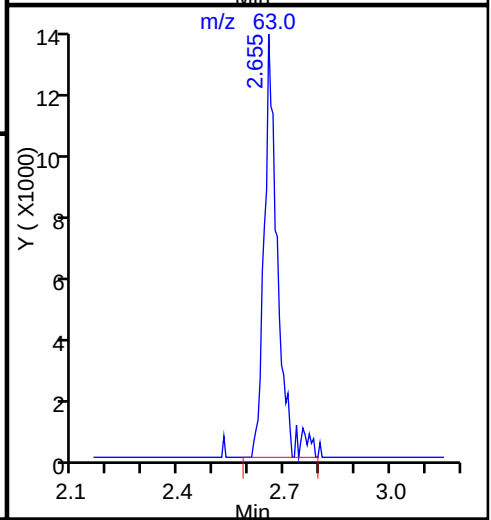
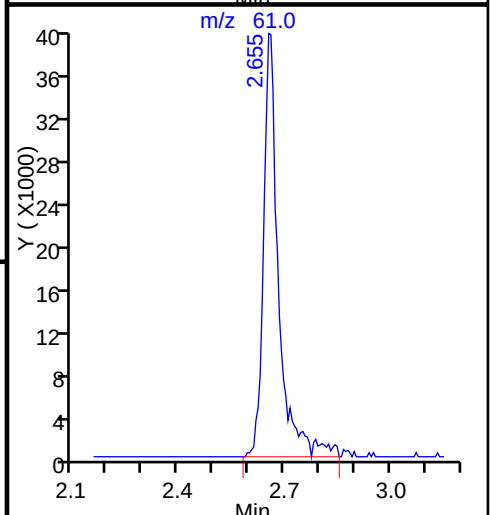
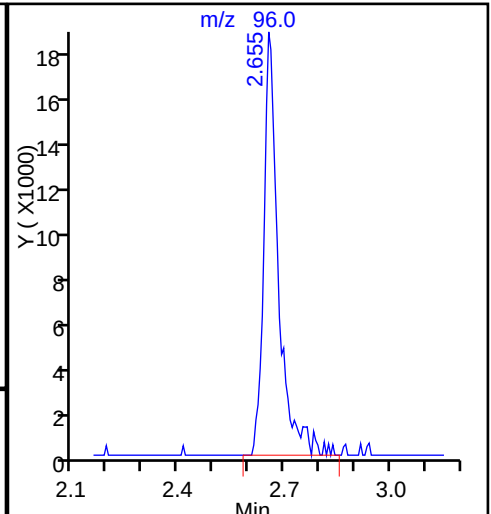
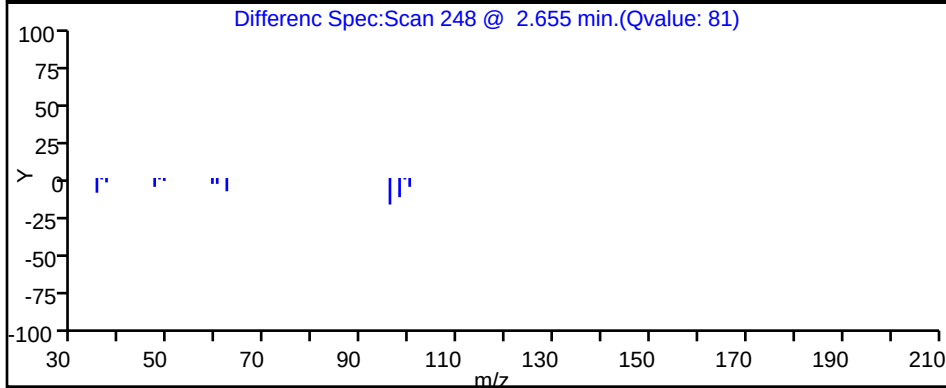
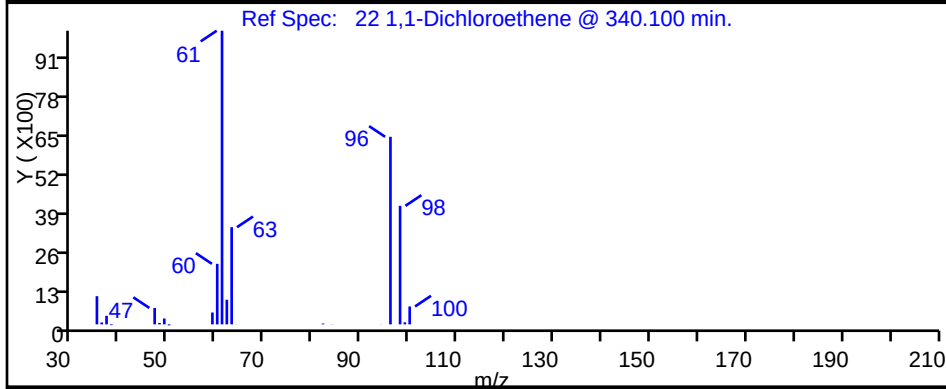
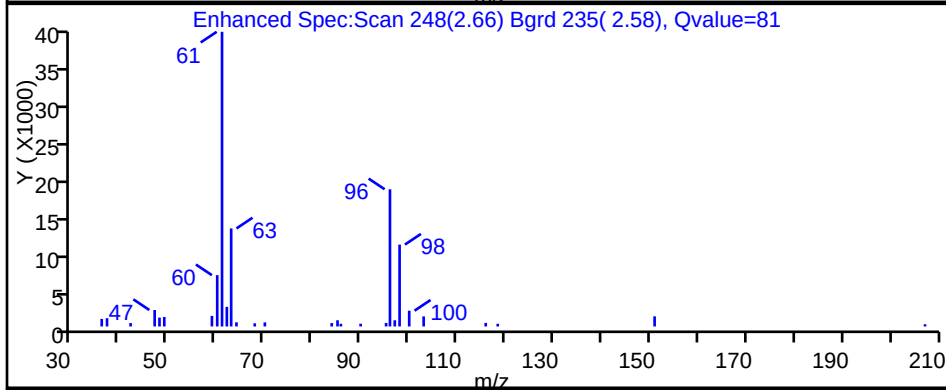
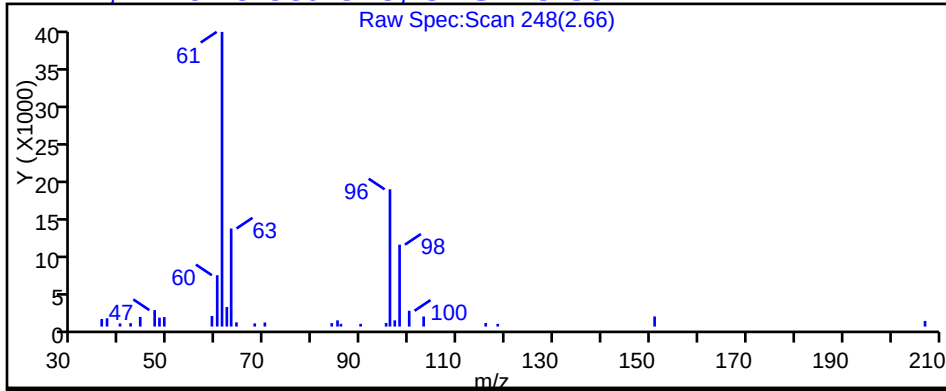
Dil. Factor: 20.0000

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\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Client ID: DUP-2

Operator ID: SO

ALS Bottle#: 17

Worklist Smp#: 19

Purge Vol: 5.000 mL

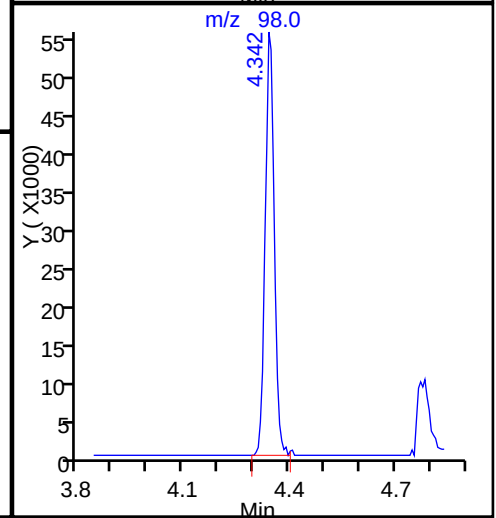
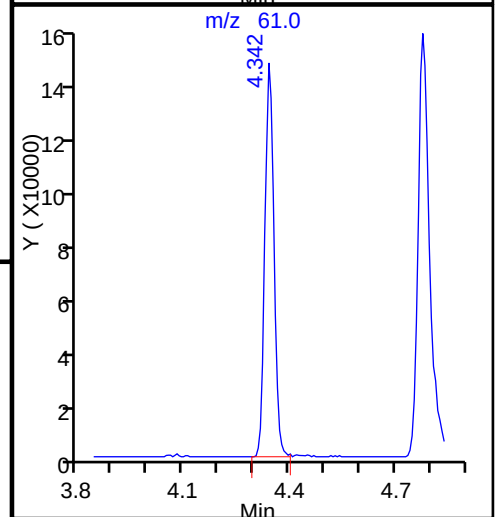
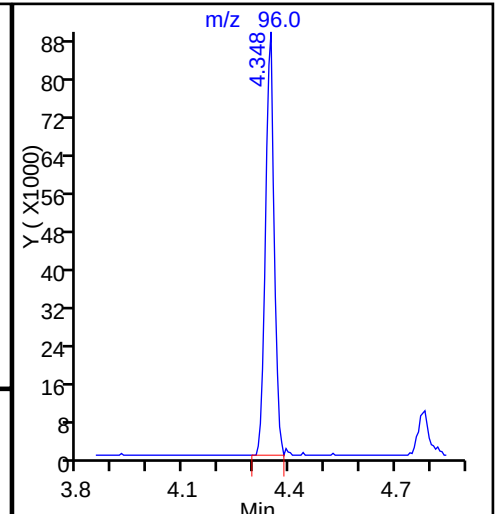
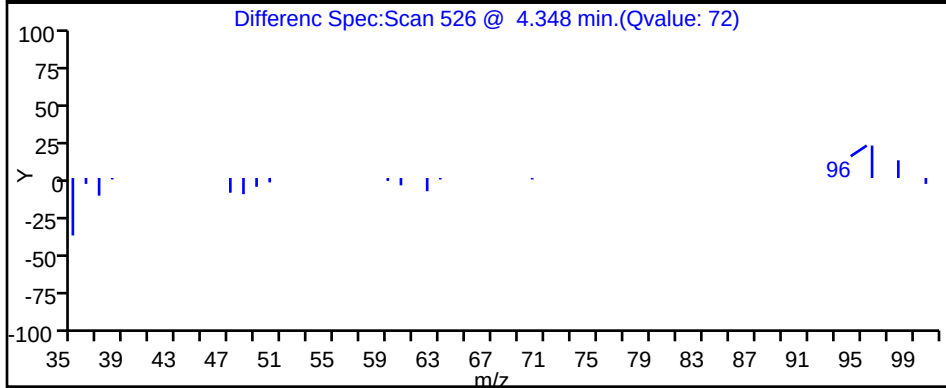
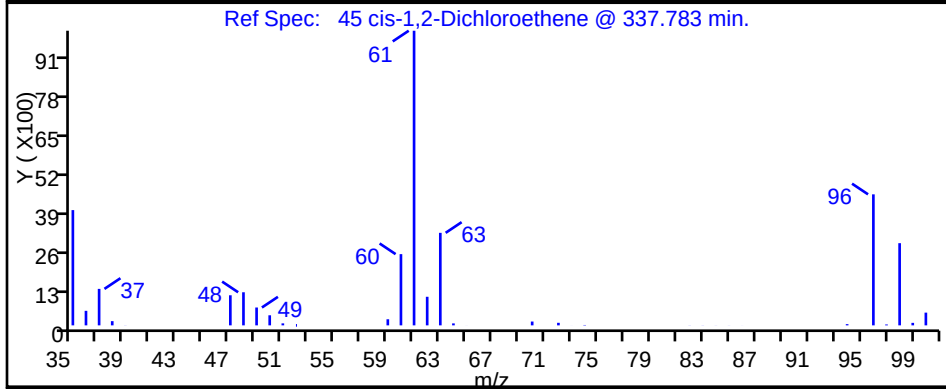
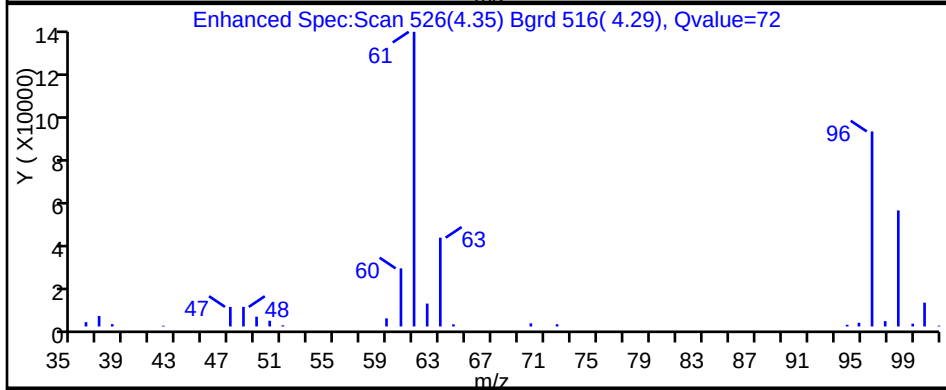
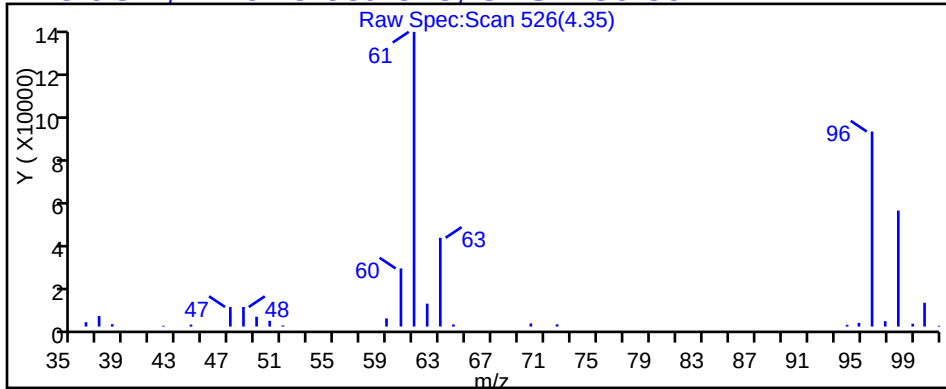
Dil. Factor: 20.0000

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\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Client ID: DUP-2

Operator ID: SO

ALS Bottle#: 17

Worklist Smp#: 19

Purge Vol: 5.000 mL

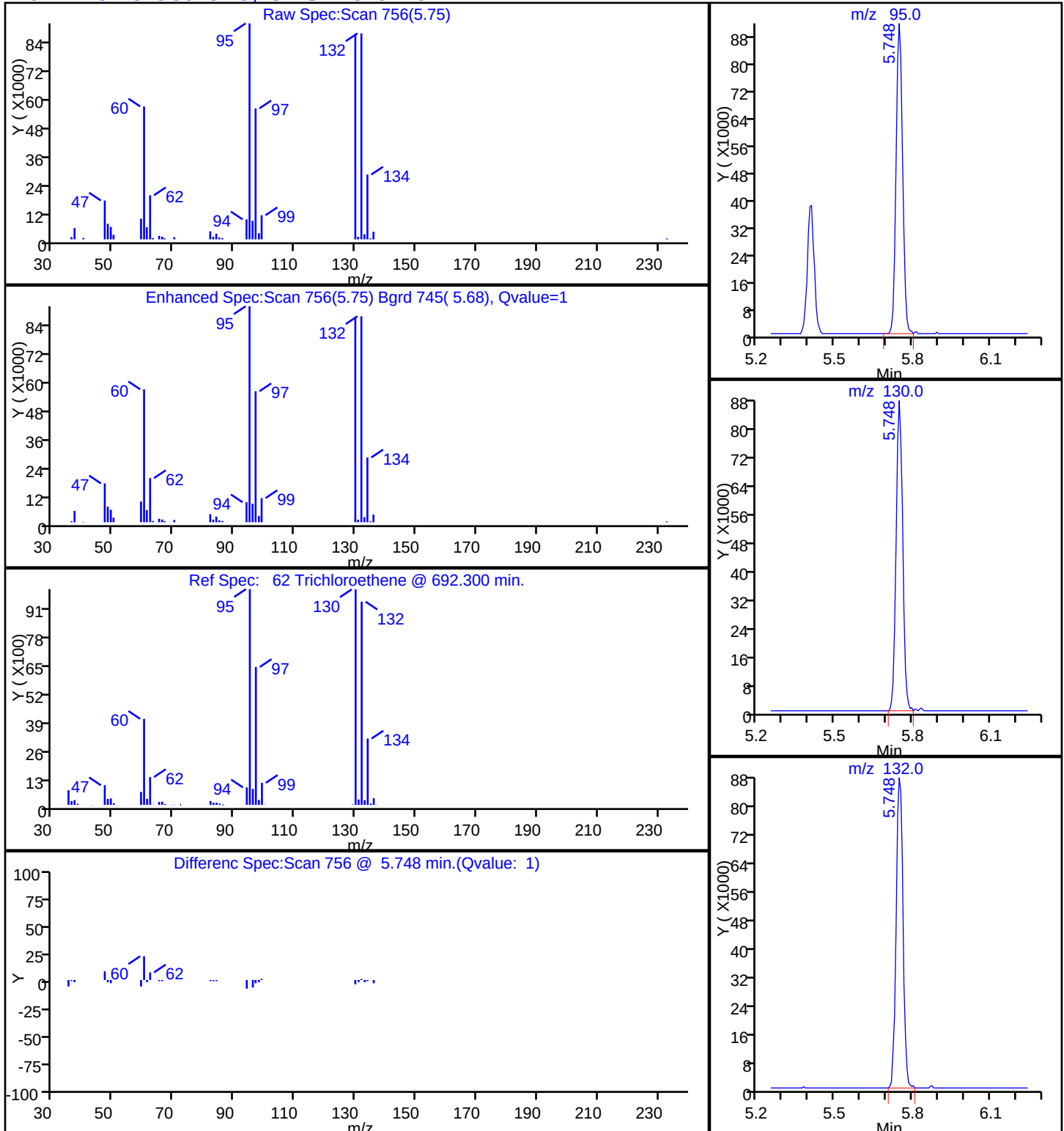
Dil. Factor: 20.0000

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\20151116-48406.b\S4820.D

Injection Date: 17-Nov-2015 04:53:30

Instrument ID: HP5973S

Lims ID: 480-90492-A-29

Lab Sample ID: 480-90492-29

Client ID: DUP-2

Operator ID: SO

ALS Bottle#: 17

Worklist Smp#: 19

Purge Vol: 5.000 mL

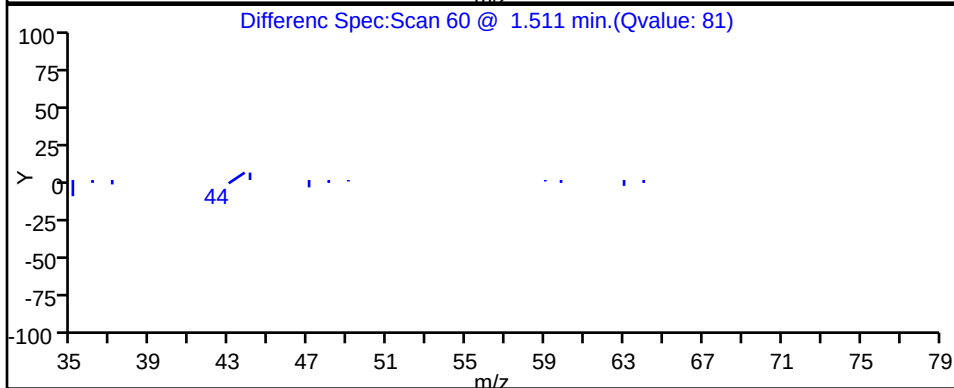
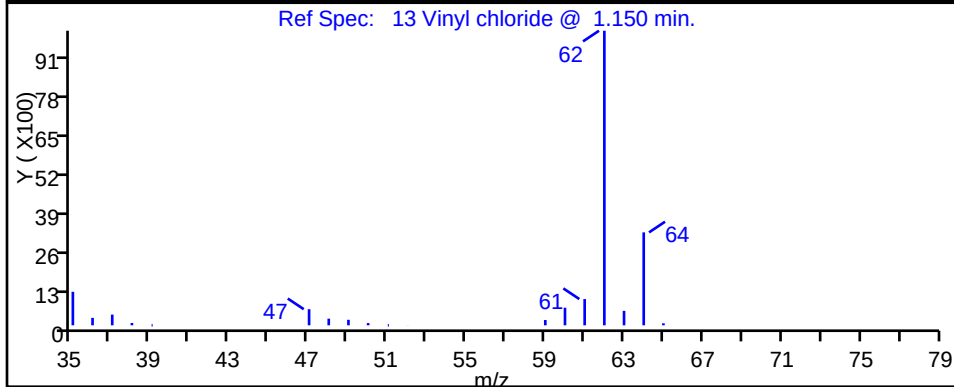
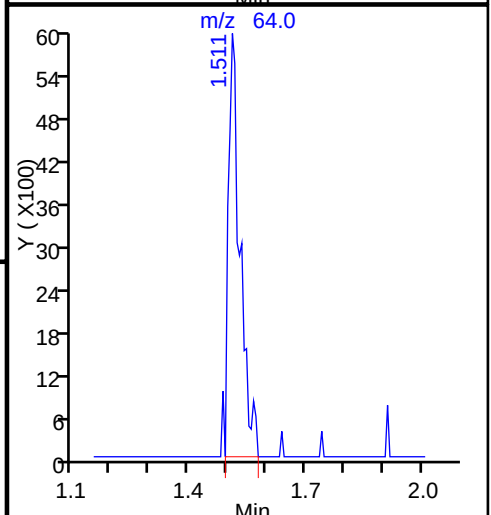
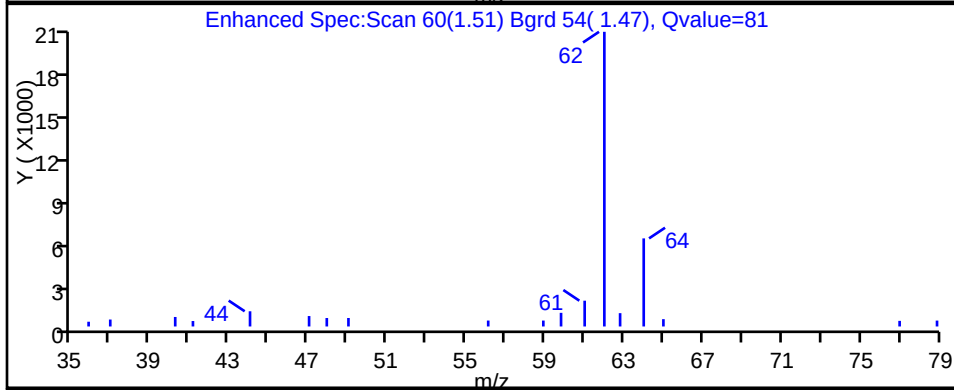
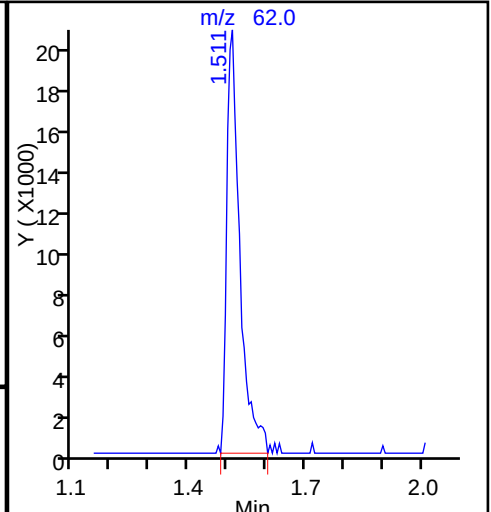
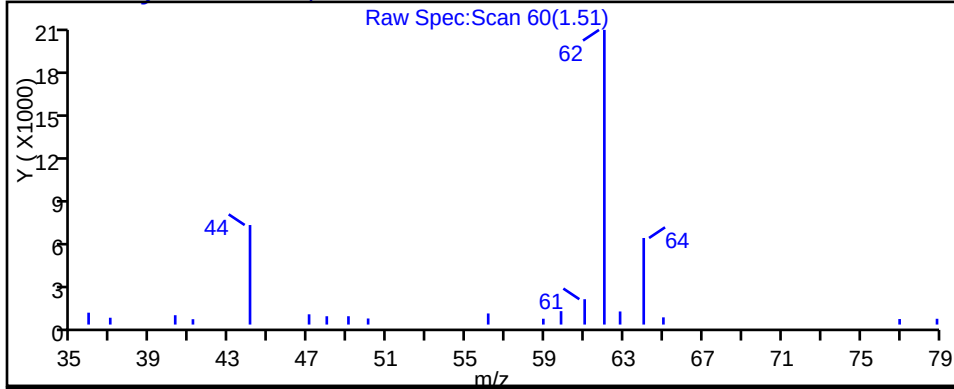
Dil. Factor: 20.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

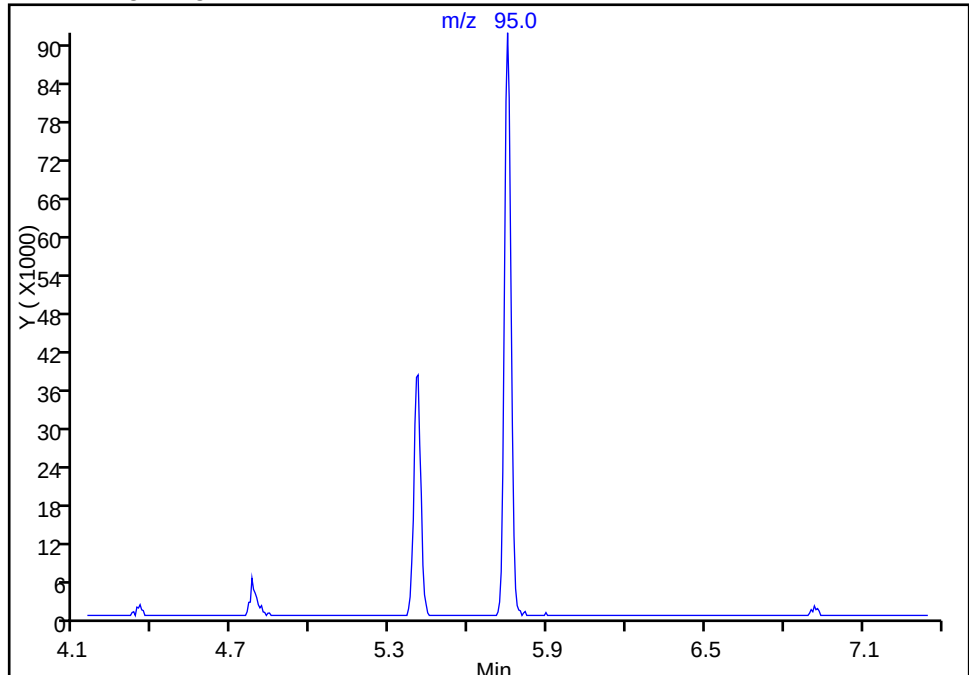
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4820.D		
Injection Date:	17-Nov-2015 04:53:30	Instrument ID:	HP5973S
Lims ID:	480-90492-A-29	Lab Sample ID:	480-90492-29
Client ID:	DUP-2		
Operator ID:	SO	ALS Bottle#:	17
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	19

62 Trichloroethene, CAS: 79-01-6

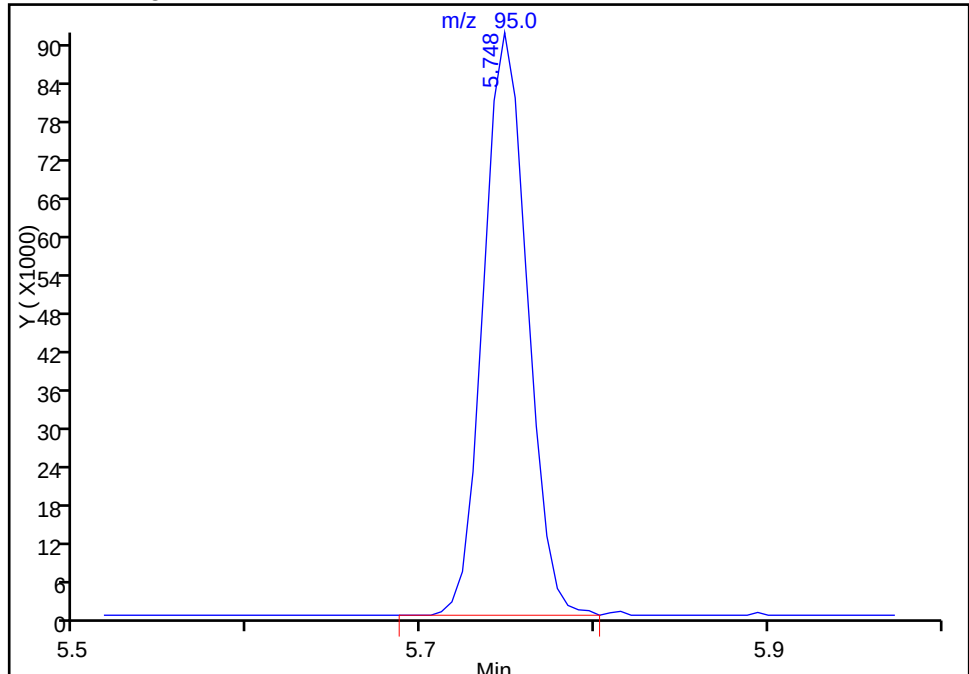
Not Detected
Expected RT: 5.75

Processing Integration Results



RT: 5.75
Area: 161873
Amount: 21.923839
Amount Units: ug/L

Manual Integration Results



Reviewer: o'briens, 17-Nov-2015 16:50:35
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: FIELD BLANK Lab Sample ID: 480-90492-30

Matrix: Water Lab File ID: S4821.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:15

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 05:16

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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.: 480-90492-1

SDG No.: _____

Client Sample ID: FIELD BLANK Lab Sample ID: 480-90492-30

Matrix: Water Lab File ID: S4821.D

Analysis Method: 8260C Date Collected: 11/04/2015 10:15

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 05:16

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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)	109		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4821.D
 Lims ID: 480-90492-A-30 Lab Sample ID: 480-90492-30
 Client ID: FIELD BLANK
 Sample Type: Client
 Inject. Date: 17-Nov-2015 05:16:30 ALS Bottle#: 18 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-30
 Misc. Info.: 480-0048406-020
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:51:00 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:51:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	166835	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	336570	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	290424	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	60	196098	28.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	153042	29.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	808726	27.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	221525	26.9	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.735	2.728	0.007	70	6800	1.96	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92	6.990	6.984	0.006	53	5379	0.2972	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106	8.652	8.646	0.006	0	4069	0.3066	
91 o-Xylene	106	9.072	9.072	0.000	1	2467	0.2003	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	14	5291	0.1989	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105	10.838	10.844	-0.006	1	2515	0.0907	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1				0		0.5069	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4821.D

Injection Date: 17-Nov-2015 05:16:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-30

Lab Sample ID: 480-90492-30

Worklist Smp#: 20

Client ID: FIELD BLANK

Purge Vol: 5.000 mL

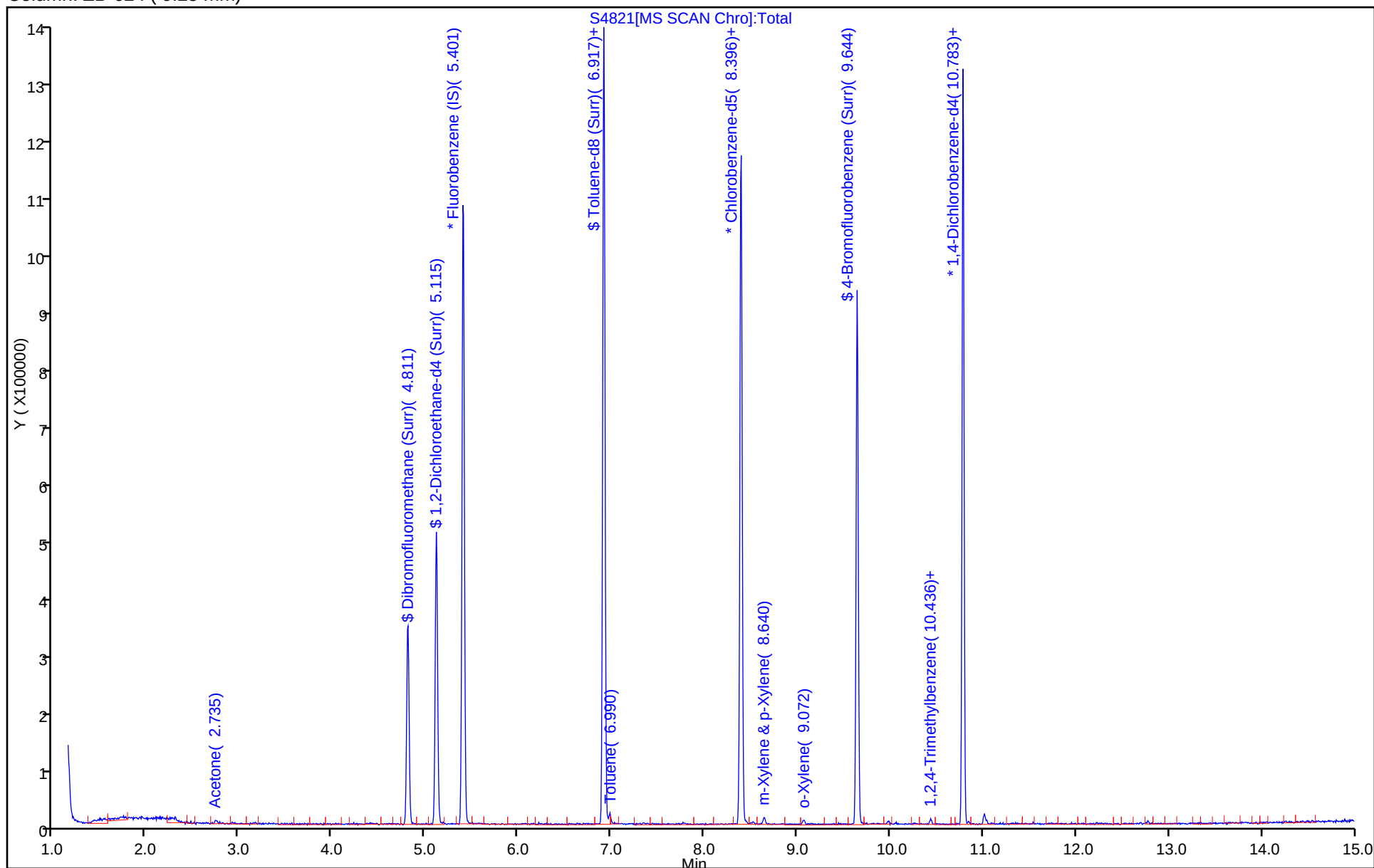
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-90492-31</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4822.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 05:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-90492-31</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4822.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/17/2015 05:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275311</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)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4822.D
 Lims ID: 480-90492-A-31 Lab Sample ID: 480-90492-31
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 17-Nov-2015 05:39:30 ALS Bottle#: 19 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-A-31
 Misc. Info.: 480-0048406-021
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 08:51:00 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: gentilej

Date: 17-Nov-2015 08:51:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.407	5.401	0.006	97	163154	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	315995	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	274755	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	56	184824	27.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	145952	28.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	752093	26.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	200759	26.0	
10 Dichlorodifluoromethane	85		1.249				ND	
12 Chloromethane	50		1.407				ND	
13 Vinyl chloride	62		1.511				ND	
14 Bromomethane	94		1.815				ND	
15 Chloroethane	64		1.913				ND	
17 Trichlorofluoromethane	101		2.144				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649				ND	
22 1,1-Dichloroethene	96		2.649				ND	
23 Acetone	43	2.741	2.728	0.013	68	1914	0.5644	
26 Carbon disulfide	76		2.850				ND	
27 Methyl acetate	43		3.039				ND	
30 Methylene Chloride	84		3.136				ND	
32 Methyl tert-butyl ether	73		3.368				ND	
34 trans-1,2-Dichloroethene	96		3.374				ND	
39 1,1-Dichloroethane	63		3.788				ND	
45 cis-1,2-Dichloroethene	96		4.342				ND	
43 2-Butanone (MEK)	43		4.372				ND	
50 Chloroform	83		4.652				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.926				ND	
57 Benzene	78		5.133				ND	
58 1,2-Dichloroethane	62		5.188				ND	
62 Trichloroethene	95		5.748				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.979				ND	
68 Dichlorobromomethane	83		6.259				ND	
72 cis-1,3-Dichloropropene	75		6.685				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826				ND	
74 Toluene	92		6.984				ND	
77 trans-1,3-Dichloropropene	75		7.246				ND	
79 1,1,2-Trichloroethane	83		7.434				ND	
81 Tetrachloroethene	166		7.526				ND	
80 2-Hexanone	43		7.666				ND	
83 Chlorodibromomethane	129		7.830				ND	
84 Ethylene Dibromide	107		7.940				ND	
87 Chlorobenzene	112		8.427				ND	
88 Ethylbenzene	91		8.524				ND	
90 m-Xylene & p-Xylene	106		8.646				ND	
91 o-Xylene	106		9.072				ND	
92 Styrene	104		9.096				ND	
95 Bromoform	173		9.334				ND	
94 Isopropylbenzene	105		9.462				ND	
97 1,1,2,2-Tetrachloroethane	83		9.833				ND	
102 1,3,5-Trimethylbenzene	105		10.064				ND	
107 1,2,4-Trimethylbenzene	105		10.436				ND	
111 1,3-Dichlorobenzene	146		10.722				ND	
113 1,4-Dichlorobenzene	146		10.807				ND	
112 1,2,3-Trimethylbenzene	105		10.844				ND	
116 1,2-Dichlorobenzene	146		11.160				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878				ND	
119 1,2,4-Trichlorobenzene	180		12.566				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4822.D

Injection Date: 17-Nov-2015 05:39:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-A-31

Lab Sample ID: 480-90492-31

Worklist Smp#: 21

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

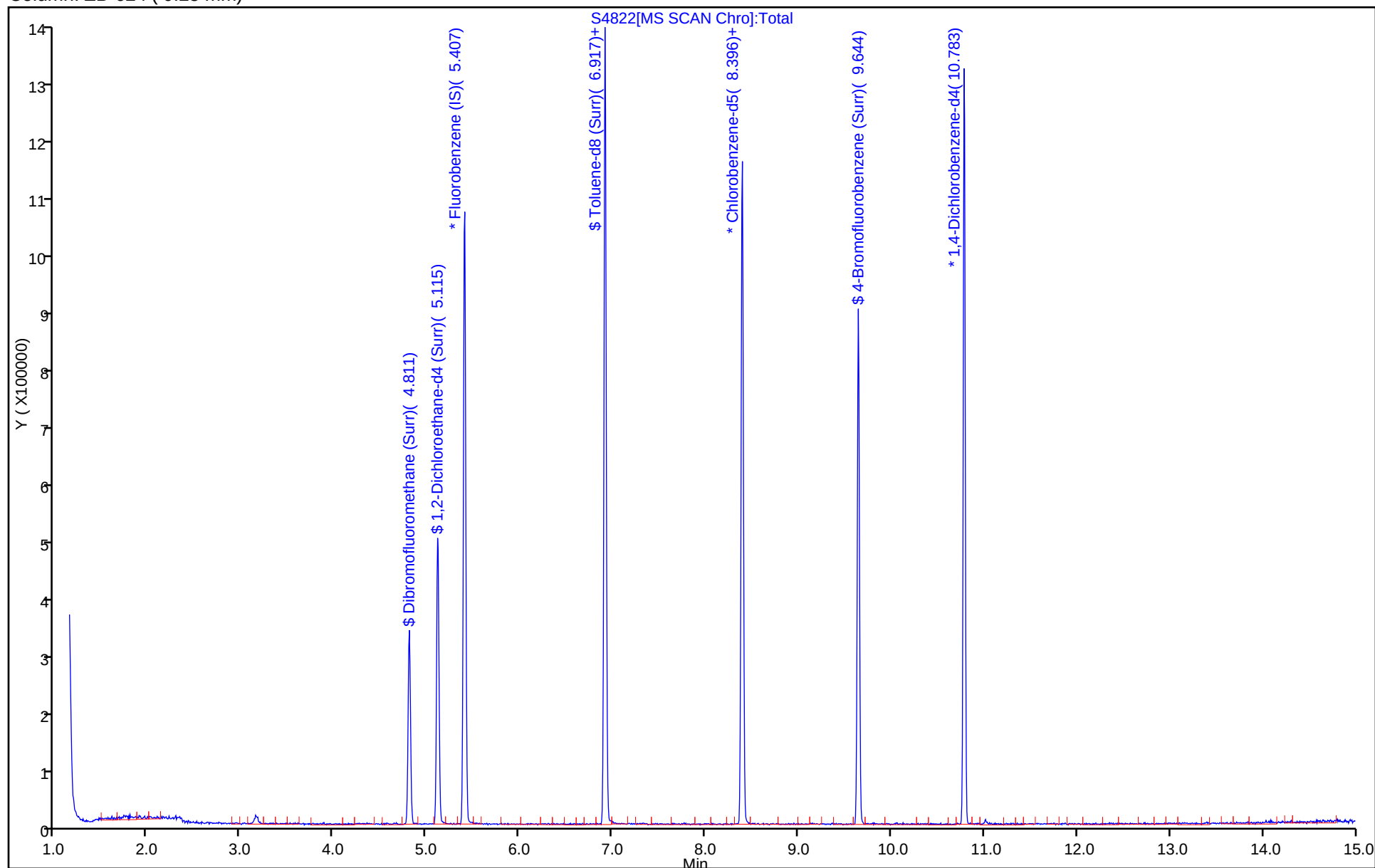
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-273987/5	S4480.D
Level 2	IC 480-273987/6	S4481.D
Level 3	IC 480-273987/7	S4482.D
Level 4	IC 480-273987/8	S4483.D
Level 5	ICIS 480-273987/9	S4484.D
Level 6	IC 480-273987/10	S4485.D
Level 7	IC 480-273987/11	S4486.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.2114 1.1872	1.1160 1.1364	1.2600	1.2247	1.2238	Ave		1.1942			0.1000	4.3		20.0			
Chloromethane	++++ 2.1297	2.2429 2.0600	2.1587	2.0804	2.0938	Ave		2.1276			0.1000	3.1		20.0			
Vinyl chloride	1.2347 1.3001	1.2827 1.2489	1.2651	1.2627	1.3019	Ave		1.2709			0.1000	2.0		20.0			
Butadiene	1.6713 1.5560	1.1845 1.4805	1.4937	1.5407	1.6122	Ave		1.5056				10.4		20.0			
Bromomethane	++++ 0.3213	0.3531 0.3597	0.3104	0.2797	0.2926	Ave		0.3195			0.1000	10.0		20.0			
Chloroethane	++++ 0.6055	0.3113 0.5852	0.5118	0.5949	0.5959	Lin1	-0.279	0.5978			0.1000				0.9990		0.9900
Dichlorofluoromethane	1.1094 1.2985	0.8848 1.2773	1.1050	1.2390	1.2118	Ave		1.1608				12.3		20.0			
Trichlorofluoromethane	++++ 1.3262	0.9065 1.2932	1.0723	1.2919	1.1886	Ave		1.1798			0.1000	13.8		20.0			
Ethyl ether	++++ 1.3046	1.5385 1.3103	1.4036	1.3757	1.3193	Ave		1.3753				6.5		20.0			
Acrolein	++++ 0.3002	0.2924 0.3052	0.2922	0.3025	0.2968	Ave		0.2982				1.8		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.0034	0.6763 0.9129	1.1177	1.0742	1.0159	Ave		0.9667			0.1000	16.4		20.0			
1,1-Dichloroethene	0.9346 0.9604	0.9753 0.9224	1.0032	0.9379	0.9210	Ave		0.9507			0.1000	3.2		20.0			
Acetone	++++ 0.5107	0.5638 0.5028	0.5168	0.5306	0.4930	Ave		0.5196			0.1000	4.8		20.0			
Iodomethane	0.9008 1.2873	0.6831 1.2417	1.0118	1.3490	1.3243	Lin1	-0.329	1.2722							0.9980		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.: 480-90492-1 Analy Batch No.: 273987
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	2.0763 2.8279	1.7784 2.8018	2.3163	2.4850	2.6554	Ave		2.4202			0.1000	16.1		20.0			
Allyl chloride	++++ 2.1647	1.8935 2.2060	1.9631	2.0692	2.1473	Ave		2.0740				5.9		20.0			
Methyl acetate	1.5283 1.2947	1.2835 1.2605	1.3165	1.3108	1.2833	Ave		1.3254			0.1000	6.9		20.0			
Methylene Chloride	2.6765 1.0394	1.8148 0.9889	1.2006	1.1361	1.0632	Lin1	0.8617	1.0022			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1723 0.1589	0.1182 0.1678	0.1332	0.1459	0.1418	Ave		0.1483				13.1		20.0			
Methyl tert-butyl ether	++++ 2.9375	2.8051 2.9487	2.8956	2.9545	2.9003	Ave		2.9069			0.1000	1.9		20.0			
trans-1,2-Dichloroethene	++++ 1.0004	0.7993 0.9331	0.9336	1.0297	1.0110	Ave		0.9512			0.1000	8.9		20.0			
Acrylonitrile	0.8115 0.6612	0.6103 0.6400	0.6808	0.6865	0.6481	Ave		0.6769				9.6		20.0			
Hexane	2.4007 2.4018	2.3011 2.2868	2.5006	2.4738	2.4514	Ave		2.4023				3.4		20.0			
1,1-Dichloroethane	++++ 2.3295	2.1668 2.3146	2.4413	2.3650	2.3740	Ave		2.3319			0.2000	3.9		20.0			
Vinyl acetate	3.2841 3.4761	2.4326 3.4392	2.9793	3.3038	3.2535	Ave		3.1669				11.4		20.0			
2,2-Dichloropropane	++++ 0.8804	0.8309 0.8681	0.8676	0.9081	0.8966	Ave		0.8753				3.1		20.0			
cis-1,2-Dichloroethene	1.3163 1.0582	0.8860 1.0288	1.1564	1.1336	1.0606	Ave		1.0914			0.1000	12.1		20.0			
2-Butanone (MEK)	0.8528 0.7916	0.6107 0.7865	0.7272	0.7659	0.7584	Ave		0.7562			0.1000	9.9		20.0			
Chlorobromomethane	0.5072 0.5172	0.4354 0.5160	0.5320	0.5384	0.5030	Ave		0.5070				6.7		20.0			
Tetrahydrofuran	++++ 0.5009	0.4535 0.5136	0.4755	0.4925	0.4996	Ave		0.4893				4.4		20.0			
Chloroform	1.9110 1.8442	1.8012 1.7837	1.9798	1.9155	1.8642	Ave		1.8714			0.2000	3.7		20.0			
1,1,1-Trichloroethane	1.0934 1.3449	0.9180 1.3725	1.2951	1.3845	1.3593	Ave		1.2525			0.1000	14.2		20.0			
Cyclohexane	2.1838 2.6531	2.0437 2.5900	2.4974	2.6711	2.7746	Ave		2.4876			0.1000	10.9		20.0			
Carbon tetrachloride	1.1079 1.3360	0.9687 1.3458	1.2496	1.2766	1.2954	Ave		1.2257			0.1000	11.3		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.: 480-90492-1 Analy Batch No.: 273987
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.7504 1.4864	1.2933 1.4259	1.4995	1.5216	1.4945	Ave		1.4959				9.1		20.0			
Isobutyl alcohol	0.0747 0.0821	0.0602 0.0827	0.0684	0.0737	0.0724	Ave		0.0734				10.6		20.0			
Benzene	++++ 4.1503	4.0462 3.9512	4.5085	4.4679	4.3079	Ave		4.2386			0.5000	5.4		20.0			
1,2-Dichloroethane	++++ 1.9282	2.0604 1.9170	2.0866	2.0994	1.9563	Ave		2.0080			0.1000	4.1		20.0			
n-Heptane	2.3150 2.4264	2.0437 2.3548	2.5978	2.5613	2.4992	Ave		2.3997				7.8		20.0			
Trichloroethene	0.9689 1.0570	0.9087 1.0037	1.1615	1.0761	1.0579	Ave		1.0334			0.2000	7.9		20.0			
Methylcyclohexane	1.5287 1.8628	1.4066 1.7877	1.9210	1.8488	1.8991	Ave		1.7507			0.1000	11.5		20.0			
1,2-Dichloropropane	++++ 1.2611	0.8878 1.2514	1.2939	1.3086	1.2408	Ave		1.2073			0.1000	13.1		20.0			
Dibromomethane	0.7039 0.6133	0.5051 0.6055	0.6300	0.6639	0.6082	Ave		0.6186			0.1000	9.9		20.0			
1,4-Dioxane	++++ 0.0063	0.0059 0.0064	0.0057	0.0065	0.0057	Ave		0.0061				6.3		20.0			
Bromodichloromethane	1.1503 1.3125	0.9670 1.3431	1.2079	1.1938	1.2250	Ave		1.1999			0.2000	10.2		20.0			
2-Chloroethyl vinyl ether	0.8209 0.8550	0.5482 0.8897	0.6765	0.7384	0.7968	Ave		0.7608				15.5		20.0			
cis-1,3-Dichloropropene	1.3173 1.6816	0.9314 1.7021	1.3565	1.5028	1.5751	Ave		1.4381			0.2000	18.6		20.0			
4-Methyl-2-pentanone (MIBK)	0.7468 0.8119	0.6018 0.7864	0.7252	0.8060	0.8109	Ave		0.7556			0.1000	10.0		20.0			
Toluene	1.4024 1.3115	1.2570 1.2592	1.4157	1.4109	1.3549	Ave		1.3445			0.4000	5.2		20.0			
trans-1,3-Dichloropropene	0.6078 0.7936	0.5195 0.8305	0.6332	0.7119	0.7637	Ave		0.6943			0.1000	16.1		20.0			
Ethyl methacrylate	0.5033 0.7065	0.4745 0.7355	0.5062	0.6206	0.6688	Ave		0.6022				17.8		20.0			
1,1,2-Trichloroethane	++++ 0.3855	0.3789 0.3892	0.3626	0.4232	0.4037	Ave		0.3905			0.1000	5.4		20.0			
Tetrachloroethene	++++ 0.5543	0.5085 0.5274	0.5618	0.5641	0.5762	Ave		0.5487			0.2000	4.7		20.0			
1,3-Dichloropropane	0.9101 0.8887	0.8642 0.8729	0.8719	0.9399	0.9076	Ave		0.8936				3.0		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.: 480-90492-1 Analy Batch No.: 273987
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

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								
2-Hexanone	0.4471 0.5897	0.4103 0.5825	0.5018	0.5651	0.5808	Ave		0.5253			0.1000	13.9		20.0			
Dibromochloromethane	++++ 0.4657	0.2403 ++++	0.3288	0.3820	0.4393	Lin1	-0.313	0.4565			0.1000				0.9960		0.9900
1,2-Dibromoethane	0.4783 0.4920	0.3777 0.4889	0.4862	0.4863	0.4946	Ave		0.4720				8.9		20.0			
Chlorobenzene	++++ 1.5110	1.4943 1.4786	1.6114	1.5790	1.5864	Ave		1.5435			0.5000	3.6		20.0			
1,1,1,2-Tetrachloroethane	0.4098 0.4930	0.3829 0.5008	0.4511	0.4800	0.4954	Ave		0.4590				10.1		20.0			
Ethylbenzene	2.7792 2.4989	2.0195 2.3482	2.5552	2.6025	2.6072	Ave		2.4872			0.1000	9.8		20.0			
m,p-Xylene	1.0524 1.0250	0.8182 0.9904	0.9586	1.0258	1.0290	Ave		0.9857			0.1000	8.1		20.0			
o-Xylene	0.7765 0.9867	0.7711 0.9602	0.9418	0.9827	0.9856	Ave		0.9149			0.3000	10.7		20.0			
Styrene	1.2450 1.6307	1.0542 1.5836	1.4579	1.5737	1.6411	Ave		1.4552			0.3000	15.4		20.0			
Bromoform	++++ 0.2443	0.1101 ++++	0.1729	0.1877	0.2157	Lin1	-0.178	0.2346			0.1000				0.9930		0.9900
Isopropylbenzene	2.5903 2.7317	2.0448 2.5540	2.7499	2.7267	2.7479	Ave		2.5922			0.1000	9.8		20.0			
Bromobenzene	++++ 0.6279	0.5991 0.6089	0.6555	0.6498	0.6133	Ave		0.6258				3.7		20.0			
1,1,2,2-Tetrachloroethane	0.6714 0.6671	0.6175 0.6538	0.6687	0.6898	0.6354	Ave		0.6577			0.3000	3.7		20.0			
1,2,3-Trichloropropane	++++ 0.2230	0.2039 0.2094	0.2270	0.2337	0.2222	Ave		0.2199				5.1		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.3548	0.1252 ++++	0.2967	0.3000	0.3199	Lin1	-0.250	0.3472							0.9980		0.9900
N-Propylbenzene	3.3572 3.1877	2.9179 2.9548	3.4468	3.3515	3.2951	Ave		3.2159				6.4		20.0			
2-Chlorotoluene	++++ 0.6490	0.5399 0.6202	0.7086	0.6605	0.6646	Ave		0.6405				8.9		20.0			
1,3,5-Trimethylbenzene	2.4905 2.3673	1.9172 2.2110	2.4024	2.3355	2.3467	Ave		2.2958				8.1		20.0			
4-Chlorotoluene	0.6006 0.6724	0.5751 0.6443	0.7309	0.7036	0.7139	Ave		0.6630				8.9		20.0			
tert-Butylbenzene	++++ 0.5420	0.4794 0.5162	0.5037	0.5428	0.5466	Ave		0.5218				5.2		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.: 480-90492-1 Analy Batch No.: 273987
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.0574 2.4003	1.9839 2.2653	2.4540	2.4414	2.4273	Ave		2.2899				8.5		20.0			
sec-Butylbenzene	2.7013 2.9182	2.1627 2.7471	3.0941	2.9850	2.9809	Ave		2.7985				11.2		20.0			
1,3-Dichlorobenzene	++++ 1.2330	1.2239 1.1880	1.3683	1.3337	1.2495	Ave		1.2661			0.6000	5.5		20.0			
4-Isopropyltoluene	2.0731 2.5496	1.8837 2.3784	2.5940	2.5563	2.6096	Ave		2.3778				12.1		20.0			
1,4-Dichlorobenzene	++++ 1.2744	1.2981 1.2079	1.4259	1.3472	1.2988	Ave		1.3087			0.5000	5.6		20.0			
n-Butylbenzene	2.2167 2.2560	1.7047 2.1418	2.2842	2.2811	2.2960	Ave		2.1686				9.7		20.0			
1,2-Dichlorobenzene	++++ 1.1963	1.2081 1.1533	1.3441	1.2754	1.2211	Ave		1.2330			0.4000	5.5		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1228	0.0825 ++++	0.0944	0.1000	0.1058	Ave		0.1011			0.0500	14.7		20.0			
1,2,4-Trichlorobenzene	0.9176 0.8770	0.6758 0.8663	0.8409	0.8348	0.8353	Ave		0.8354			0.2000	9.1		20.0			
Hexachlorobutadiene	0.4215 0.3905	0.3671 0.3841	0.4190	0.4037	0.3925	Ave		0.3969				4.9		20.0			
Naphthalene	1.7772 2.2212	1.2723 2.1813	1.7247	1.9539	2.0750	Ave		1.8865				17.5		20.0			
1,2,3-Trichlorobenzene	0.6799 0.8151	0.5902 0.8189	0.8004	0.8364	0.7994	Ave		0.7629				12.0		20.0			
Dibromofluoromethane (Surr)	1.0462 1.0865	1.0003 1.0578	1.0193	1.0297	1.0392	Ave		1.0399				2.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8115 0.7640	0.7730 0.7755	0.7767	0.7861	0.7497	Ave		0.7766				2.5		20.0			
Toluene-d8 (Surr)	2.2040 2.2268	2.1584 2.2582	2.1772	2.2526	2.2588	Ave		2.2194				1.8		20.0			
4-Bromofluorobenzene (Surr)	0.5944 0.6275	0.5722 0.6408	0.5983	0.6138	0.6297	Ave		0.6110				3.9		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.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-273987/5	S4480.D
Level 2	IC 480-273987/6	S4481.D
Level 3	IC 480-273987/7	S4482.D
Level 4	IC 480-273987/8	S4483.D
Level 5	ICIS 480-273987/9	S4484.D
Level 6	IC 480-273987/10	S4485.D
Level 7	IC 480-273987/11	S4486.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4836 497433	9074 945285	53275	101594	256640	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	++++ 892371	18236 1713559	91270	172578	439076	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	4929 544767	10429 1038813	53491	104741	273005	0.500 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	6672 651986	9631 1231518	63156	127801	338077	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	++++ 134616	2871 299185	13124	23200	61366	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Lin1	++++ 253688	2531 486753	21638	49348	124968	++++ 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	4429 544057	7194 1062476	46721	102776	254110	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	++++ 555670	7370 1075697	45339	107167	249261	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	++++ 546629	12509 1089948	59344	114117	276653	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	++++ 628881	11887 1269484	61782	125460	311177	++++ 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 420436	5499 759340	47256	89105	213029	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	3731 402413	7930 767226	42417	77798	193141	0.500 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	++++ 1069822	22919 2091106	109245	220057	516970	++++ 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Lin1	3596 539367	5554 1032842	42780	111899	277702	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	8289 1184920	14459 2330608	97934	206137	556841	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.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

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
Allyl chloride	FB	Ave	++++ 907038	15395 1834986	83001	171649	450294	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl acetate	FB	Ave	30507 2712501	52177 5242341	278323	543665	1345535	2.50 250	5.00 500	25.0	50.0	125
Methylene Chloride	FB	Lin1	10685 435502	14755 822585	50764	94244	222948	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	6879 665963	9610 1395633	56314	121067	297316	5.00 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	++++ 1230820	22807 2452734	122428	245079	608199	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,2-Dichloroethene	FB	Ave	++++ 419183	6499 776202	39473	85418	212002	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	32395 2770598	49622 5323883	287851	569435	1359109	5.00 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	9584 1006362	18709 1902159	105726	205205	514063	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethane	FB	Ave	++++ 976086	17617 1925295	103219	196182	497825	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	26221 2912982	39557 5721488	251937	548108	1364538	1.00 100	2.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	++++ 368893	6756 722095	36681	75327	188026	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	5255 443391	7204 855752	48895	94036	222413	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	17023 1658344	24827 3271127	153734	317657	795223	2.50 250	5.00 500	25.0	50.0	125
Chlorobromomethane	FB	Ave	2025 216689	3540 429250	22495	44661	105481	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	++++ 419793	7375 854474	40213	81704	209550	++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	7629 772709	14645 1483686	83706	158899	390932	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	4365 563528	7464 1141702	54757	114847	285055	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	8718 1111654	16616 2154380	105592	221571	581832	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	4423 559773	7876 1119488	52834	105898	271645	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloropropene	FB	Ave	6988 622800	10515 1186068	63398	126219	313406	0.500 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	7455 859517	12234 1719994	72253	152771	379433	12.5 1250	25.0 2500	125	250	625

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	++++ 1738973	32898 3286626	190622	370620	903370	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	++++ 807927	16752 1594624	88224	174150	410234	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	9242 1016659	16616 1958732	109838	212464	524083	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	3868 442875	7388 834856	49111	89261	221838	0.500 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	6103 780517	11436 1487061	81221	153364	398252	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	++++ 528385	7218 1040919	54707	108550	260208	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromomethane	FB	Ave	2810 256976	4107 503688	26639	55073	127550	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBZ	Ave	++++ 103181	1895 206740	9366	20783	45191	++++ 1000	20.0 2000	100	200	500
Bromodichloromethane	FB	Ave	4592 549936	7862 1117216	51072	99025	256894	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	3277 358256	4457 740082	28603	61249	167088	0.500 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	5259 704600	7573 1415842	57354	124663	330308	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	29327 3307527	48364 6322618	300231	644344	1614966	2.50 250	5.00 500	25.0	50.0	125
Toluene	CBZ	Ave	11015 1068648	20202 2024702	117230	225589	539714	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBZ	Ave	4774 646595	8350 1335348	52429	113831	304188	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBZ	Ave	3953 575682	7626 1182600	41919	99231	266401	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 314101	6090 625805	30022	67668	160790	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBZ	Ave	++++ 451650	8172 847985	46517	90196	229506	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichloropropane	CBZ	Ave	7148 724137	13890 1403606	72198	150274	361533	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBZ	Ave	17557 2402550	32969 4683147	207772	451739	1156809	2.50 250	5.00 500	25.0	50.0	125
Dibromochloromethane	CBZ	Lin1	++++ 379462	3862 ++++	27227	61075	174976	++++ 50.0	1.00 ++++	5.00	10.0	25.0
1,2-Dibromoethane	CBZ	Ave	3757 400868	6071 786090	40261	77759	197015	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.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	+++++ 1231189	24017 2377560	133430	252464	631907	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	3219 401729	6154 805198	37350	76751	197317	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBZ	Ave	21828 2036081	32458 3775798	211578	416101	1038542	0.500 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBZ	Ave	8266 835212	13150 1592565	79374	164017	409901	0.500 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBZ	Ave	6099 803980	12393 1543937	77986	157120	392589	0.500 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBZ	Ave	9778 1328698	16943 2546412	120723	251616	653716	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBZ	Lin1	+++++ 199037	1770 +++++	14314	30011	85905	+++++ 50.0	1.00 +++++	5.00	10.0	25.0
Isopropylbenzene	DCB	Ave	17897 2037567	28866 3839454	198322	397555	1019224	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCB	Ave	+++++ 468331	8458 915389	47273	94735	227490	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	4639 497611	8717 982852	48223	100574	235675	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 166299	2879 314809	16371	34072	82426	+++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 264666	1767 +++++	21397	43743	118640	+++++ 50.0	1.00 +++++	5.00	10.0	25.0
N-Propylbenzene	DCB	Ave	23196 2377706	41191 4442006	248583	488650	1222181	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCB	Ave	+++++ 484054	7622 932276	51106	96304	246509	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCB	Ave	17208 1765736	27065 3323753	173261	340509	870411	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCB	Ave	4150 501529	8119 968609	52715	102578	264794	0.500 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCB	Ave	+++++ 404284	6767 775930	36328	79133	202757	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCB	Ave	14215 1790358	28007 3405464	176980	355956	900303	0.500 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCB	Ave	18664 2176704	30530 4129669	223149	435205	1105652	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCB	Ave	+++++ 919671	17277 1785919	98680	194458	463449	+++++ 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCB	Ave	14324 1901773	26592 3575464	187078	372709	967919	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.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 17:43 Calibration End Date: 11/09/2015 20:00 Calibration ID: 25558

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	+++++ 950586	18325 1815786	102836	196415	481744	+++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCB	Ave	15316 1682773	24065 3219689	164737	332580	851597	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 892326	17054 1733807	96939	185946	452917	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 91621	1164 +++++	6810	14584	39242	+++++ 50.0	1.00 +++++	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCB	Ave	6340 654179	9540 1302271	60647	121720	309809	0.500 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCB	Ave	2912 291290	5183 577439	30215	58860	145573	0.500 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCB	Ave	12279 1656789	17961 3279098	124386	284879	769641	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCB	Ave	4698 607960	8332 1230981	57728	121943	296491	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	226984 247422	221010 239106	234228	232107	236862	27.2 27.2	27.2 27.2	27.2	27.2	27.2
1,2-Dichloroethane-d4 (Surr)	FB	Ave	176073 173978	170793 175284	178469	177192	170883	27.2 27.2	27.2 27.2	27.2	27.2	27.2
Toluene-d8 (Surr)	CBZ	Ave	940797 986086	942678 986702	979808	978689	977985	27.2 27.2	27.2 27.2	27.2	27.2	27.2
4-Bromofluorobenzene (Surr)	CBZ	Ave	253732 277863	249903 279982	269271	266677	272632	27.2 27.2	27.2 27.2	27.2	27.2	27.2

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Nov-2015 17:43:30 ALS Bottle#: 37 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.5
 Misc. Info.: 480-0048176-005
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:24 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:38:52

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	5.401	5.401	0.000	97	199608	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	90	392706	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	345467	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	72	226984	27.2	27.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	176073	27.2	28.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	940797	27.2	27.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.650	-0.006	81	253732	27.2	26.4	
10 Dichlorodifluoromethane	85	1.255	1.249	0.006	42	4836	0.5000	0.5072	
12 Chloromethane	50	1.401	1.407	-0.006	61	10790	0.5000	0.6352	
13 Vinyl chloride	62	1.511	1.511	0.000	3	4929	0.5000	0.4858	
151 Butadiene	54	1.535	1.535	0.000	83	6672	0.5000	0.5550	
14 Bromomethane	94		1.797				ND	ND	M
15 Chloroethane	64	1.913	1.913	0.000	1	3076	0.5000	1.11	M
16 Dichlorofluoromethane	67	2.132	2.132	0.000	32	4429	0.5000	0.4779	
17 Trichlorofluoromethane	101	2.144	2.150	-0.006	40	3135	0.5000	0.3328	
18 Ethyl ether	59	2.418	2.418	0.000	79	7251	0.5000	0.6603	
20 Acrolein	56	2.576	2.582	-0.006	45	7184	2.50	3.02	
21 1,1,2-Trichloro-1,2,2-trif	101	2.661	2.649	0.012	0	2791	0.5000	0.3616	M
22 1,1-Dichloroethene	96	2.661	2.655	0.006	40	3731	0.5000	0.4915	
23 Acetone	43	2.741	2.734	0.007	92	15117	2.50	3.64	
25 Iodomethane	142	2.814	2.814	0.000	44	3596	0.5000	0.6123	
26 Carbon disulfide	76	2.844	2.856	-0.012	80	8289	0.5000	0.4290	
28 3-Chloro-1-propene	41	3.002	2.996	0.006	63	10523	0.5000	0.6355	
27 Methyl acetate	43	3.051	3.039	0.012	94	30507	2.50	2.88	
30 Methylene Chloride	84	3.167	3.167	0.000	75	10685	0.5000	0.4755	
31 2-Methyl-2-propanol	59	3.307	3.301	0.006	45	6879	5.00	5.81	
32 Methyl tert-butyl ether	73	3.374	3.368	0.006	71	14115	0.5000	0.6081	
34 trans-1,2-Dichloroethene	96	3.386	3.374	0.012	61	4731	0.5000	0.6229	
33 Acrylonitrile	53	3.404	3.404	0.000	95	32395	5.00	5.99	
35 Hexane	57	3.599	3.593	0.006	76	9584	0.5000	0.4997	

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	3.788	3.788	0.000	28	10534	0.5000	0.5658	
37 Vinyl acetate	43	3.855	3.849	0.006	95	26221	1.00	1.04	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	33	4135	0.5000	0.5917	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	32	5255	0.5000	0.6030	
43 2-Butanone (MEK)	43	4.384	4.372	0.012	74	17023	2.50	2.82	M
48 Chlorobromomethane	128	4.573	4.579	-0.006	1	2025	0.5000	0.5002	M
49 Tetrahydrofuran	42	4.628	4.603	0.025	0	4594	1.00	1.18	M
50 Chloroform	83	4.652	4.652	0.000	57	7629	0.5000	0.5106	
51 1,1,1-Trichloroethane	97	4.786	4.780	0.006	1	4365	0.5000	0.4365	
52 Cyclohexane	56	4.804	4.804	0.000	10	8718	0.5000	0.4389	
55 Carbon tetrachloride	117	4.926	4.926	0.000	38	4423	0.5000	0.4519	
54 1,1-Dichloropropene	75	4.938	4.932	0.006	42	6988	0.5000	0.5851	
53 Isobutyl alcohol	43	5.151	5.133	0.018	46	7455	12.5	12.7	M
57 Benzene	78	5.133	5.133	0.000	88	20224	0.5000	0.5976	
58 1,2-Dichloroethane	62	5.194	5.188	0.006	47	10479	0.5000	0.6536	
59 n-Heptane	43	5.340	5.340	0.000	79	9242	0.5000	0.4824	
62 Trichloroethene	95	5.754	5.748	0.006	57	3868	0.5000	0.4688	
64 Methylcyclohexane	83	5.882	5.888	-0.006	74	6103	0.5000	0.4366	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	37	6383	0.5000	0.6622	
67 Dibromomethane	93	6.107	6.113	-0.006	46	2810	0.5000	0.5689	
66 1,4-Dioxane	88		6.119				ND	ND	
68 Dichlorobromomethane	83	6.259	6.265	-0.006	33	4592	0.5000	0.4793	
69 2-Chloroethyl vinyl ether	63	6.546	6.545	0.001	17	3277	0.5000	0.5395	
72 cis-1,3-Dichloropropene	75	6.679	6.685	-0.006	38	5259	0.5000	0.4580	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	84	29327	2.50	2.47	
74 Toluene	92	6.984	6.984	0.000	68	11015	0.5000	0.5215	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	50	4774	0.5000	0.4377	
75 Ethyl methacrylate	69	7.306	7.306	0.000	33	3953	0.5000	0.4179	
79 1,1,2-Trichloroethane	83	7.428	7.434	-0.006	43	3829	0.5000	0.6242	
81 Tetrachloroethene	166	7.520	7.520	0.000	62	4940	0.5000	0.5731	
82 1,3-Dichloropropane	76	7.593	7.599	-0.006	49	7148	0.5000	0.5092	
80 2-Hexanone	43	7.666	7.666	0.000	71	17557	2.50	2.13	
83 Chlorodibromomethane	129	7.830	7.836	-0.006	1	2910	0.5000	1.09	
84 Ethylene Dibromide	107	7.940	7.940	0.000	35	3757	0.5000	0.5067	
87 Chlorobenzene	112	8.421	8.427	-0.006	40	14681	0.5000	0.6055	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	3	3219	0.5000	0.4465	
88 Ethylbenzene	91	8.524	8.524	0.000	75	21828	0.5000	0.5587	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	8266	0.5000	0.5339	
91 o-Xylene	106	9.066	9.072	-0.006	64	6099	0.5000	0.4244	
92 Styrene	104	9.096	9.096	0.000	39	9778	0.5000	0.4278	
95 Bromoform	173	9.334	9.334	0.000	1	430	0.5000	0.8762	
94 Isopropylbenzene	105	9.462	9.462	0.000	69	17897	0.5000	0.4996	
101 Bromobenzene	156	9.796	9.796	0.000	74	5068	0.5000	0.5861	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	31	4639	0.5000	0.5104	
100 1,2,3-Trichloropropane	110	9.863	9.869	-0.006	11	2354	0.5000	0.7748	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.882	0.006	1	2138	0.5000	1.16	
99 N-Propylbenzene	91	9.882	9.888	-0.006	83	23196	0.5000	0.5220	
103 2-Chlorotoluene	126	9.985	9.985	0.000	69	5598	0.5000	0.6325	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	60	17208	0.5000	0.5424	
105 4-Chlorotoluene	126	10.095	10.095	0.000	33	4150	0.5000	0.4530	
106 tert-Butylbenzene	134	10.375	10.381	-0.006	52	2793	0.5000	0.3874	
107 1,2,4-Trimethylbenzene	105	10.442	10.436	0.006	34	14215	0.5000	0.4492	

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	10.594	10.594	0.000	71	18664	0.5000	0.4826	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	51	10192	0.5000	0.5826	
110 4-Isopropyltoluene	119	10.740	10.734	0.006	39	14324	0.5000	0.4359	
113 1,4-Dichlorobenzene	146	10.813	10.807	0.006	0	11519	0.5000	0.6369	
115 n-Butylbenzene	91	11.117	11.117	0.000	56	15316	0.5000	0.5111	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	53	10558	0.5000	0.6196	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	0	463	0.5000	0.3314	M
119 1,2,4-Trichlorobenzene	180	12.560	12.560	0.000	48	6340	0.5000	0.5492	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	12	2912	0.5000	0.5309	
121 Naphthalene	128	12.773	12.773	0.000	53	12279	0.5000	0.4710	
122 1,2,3-Trichlorobenzene	180	12.980	12.974	0.006	23	4698	0.5000	0.4456	
S 123 Total BTEX	1				0			2.64	
S 124 Xylenes, Total	1				0			0.9582	
S 125 1,2-Dichloroethene, Total	1				0			1.23	
S 126 1,3-Dichloropropene, Total	1				0			0.8957	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00058	Amount Added: 0.50	Units: uL	
GAS CORP mix_00119	Amount Added: 0.50	Units: uL	
S_8260_IS_00123	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00114	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D

Injection Date: 09-Nov-2015 17:43:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 0.5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

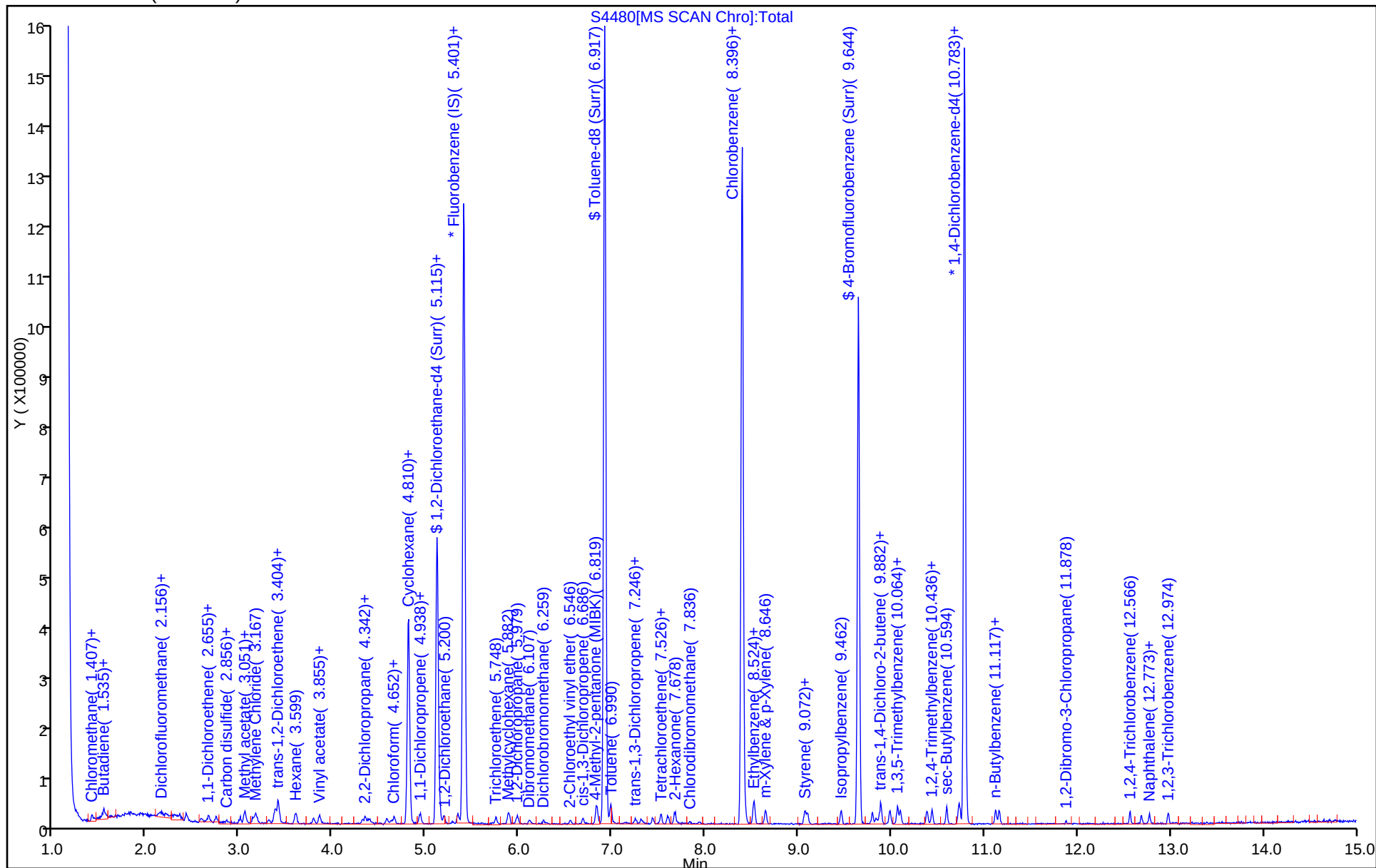
Dil. Factor: 1.0000

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\20151109-48176.b\S4480.D

Injection Date: 09-Nov-2015 17:43:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

37

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

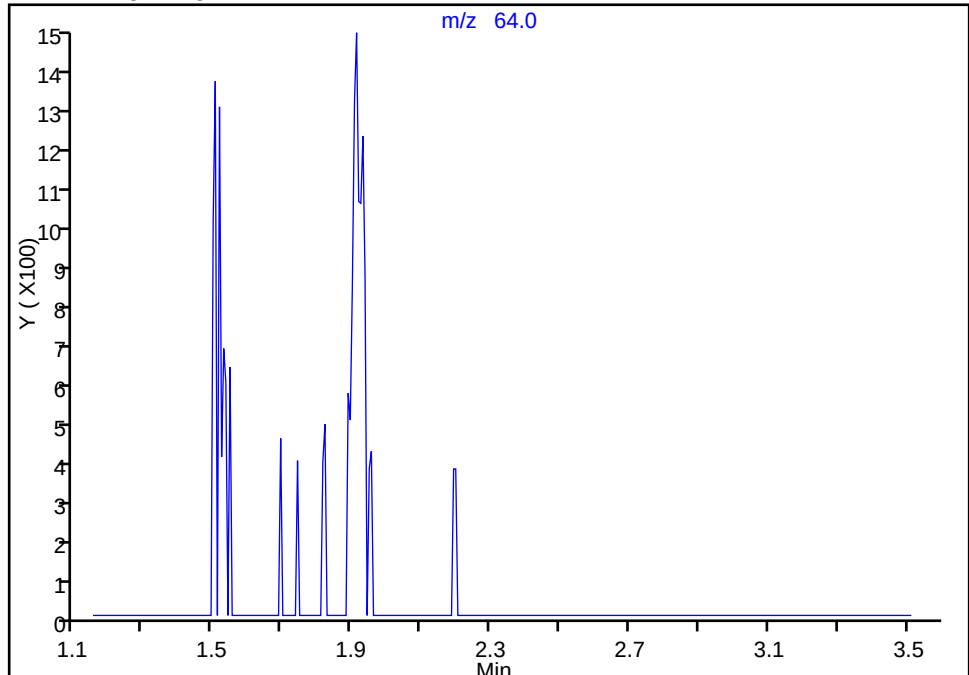
MS SCAN

15 Chloroethane, CAS: 75-00-3

Not Detected

Expected RT: 1.91

Processing Integration Results



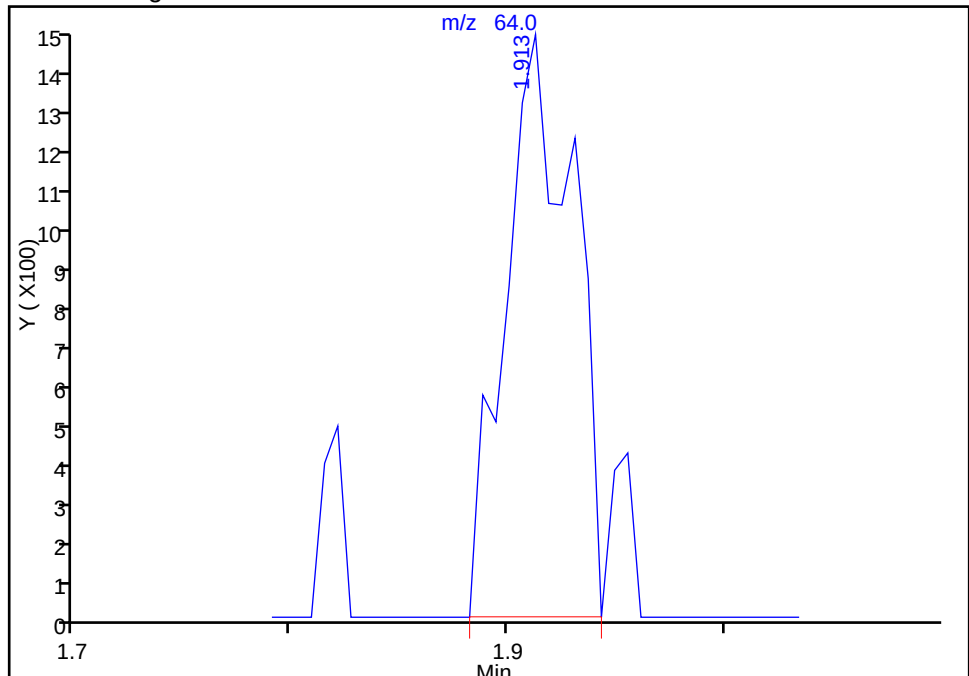
RT: 1.91

Area: 3076

Amount: 1.111288

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:38:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D

Injection Date: 09-Nov-2015 17:43:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

37

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

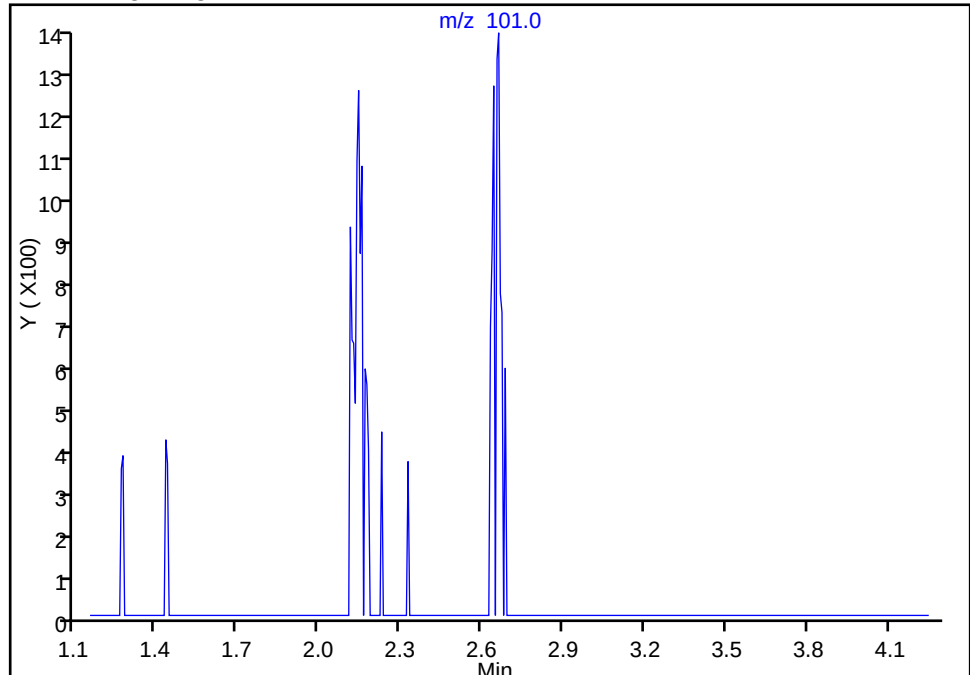
MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Not Detected

Expected RT: 2.65

Processing Integration Results



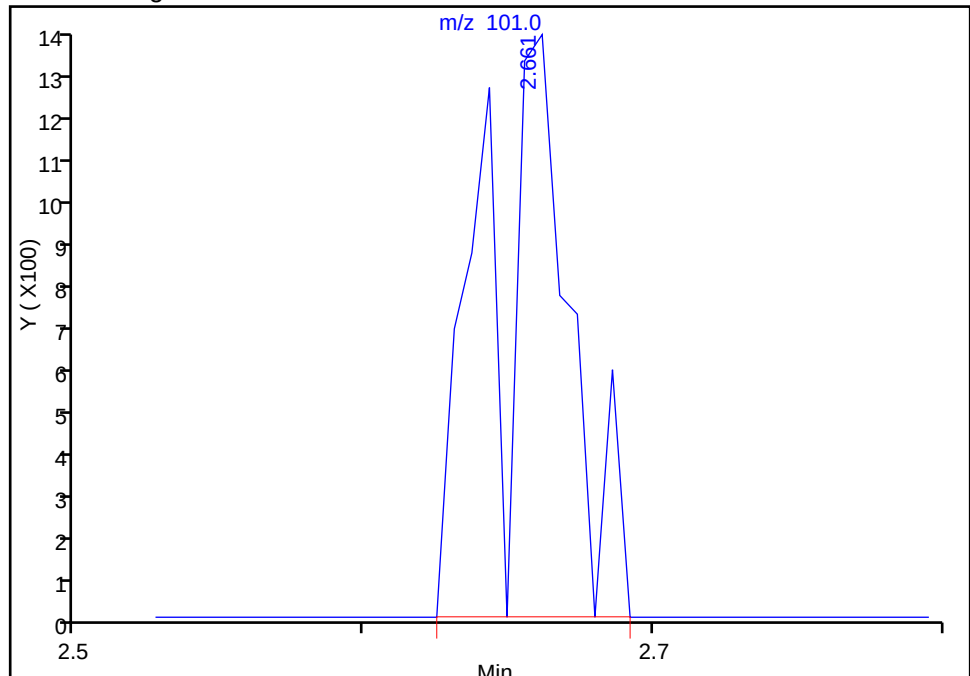
RT: 2.66

Area: 2791

Amount: 0.361593

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:38:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D

Injection Date: 09-Nov-2015 17:43:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

37

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)

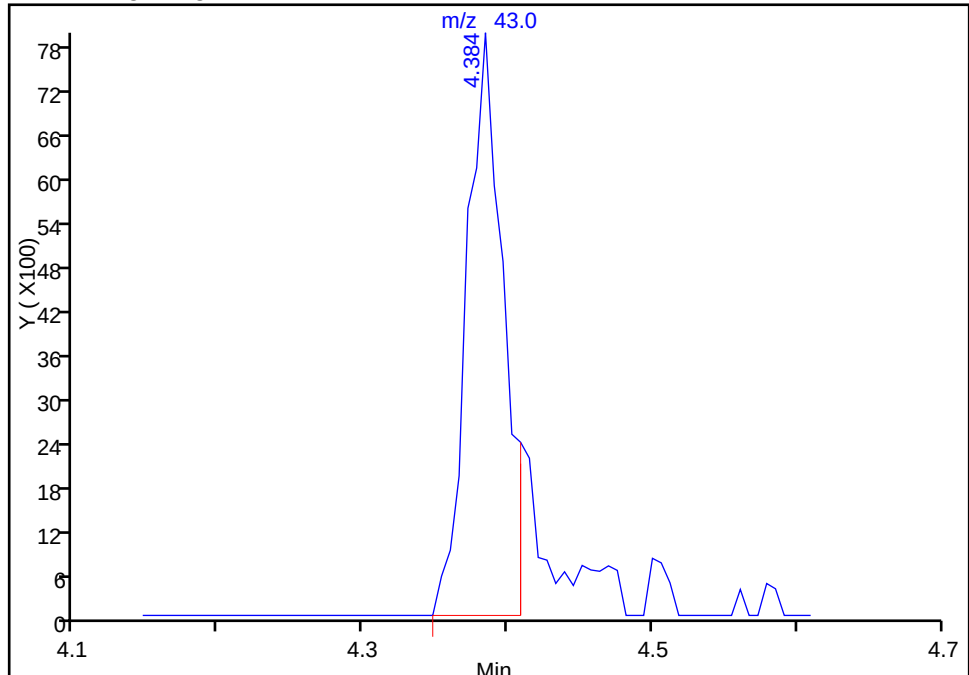
Detector

MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

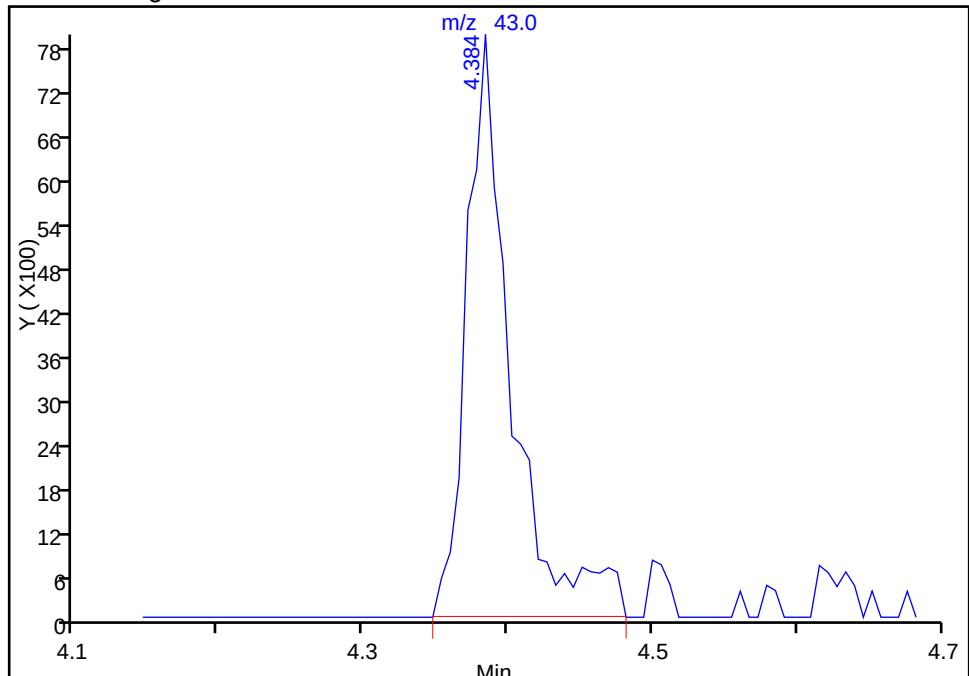
RT: 4.38
Area: 14071
Amount: 2.381369
Amount Units: ug/L

Processing Integration Results



RT: 4.38
Area: 17023
Amount: 2.819583
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:38:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

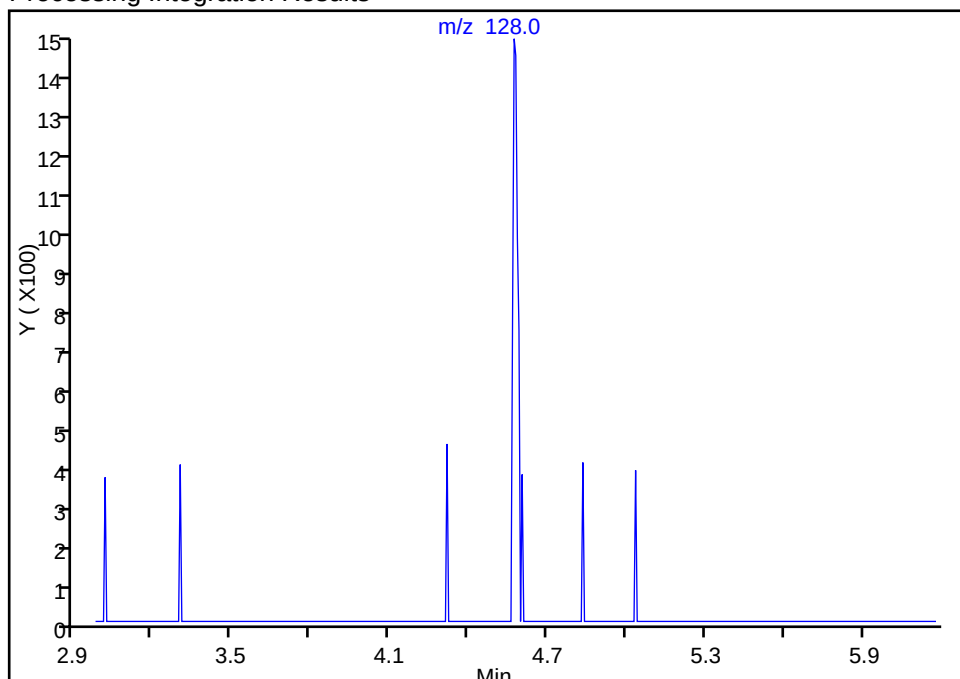
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D
Injection Date: 09-Nov-2015 17:43:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 37 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

48 Chlorobromomethane, CAS: 74-97-5

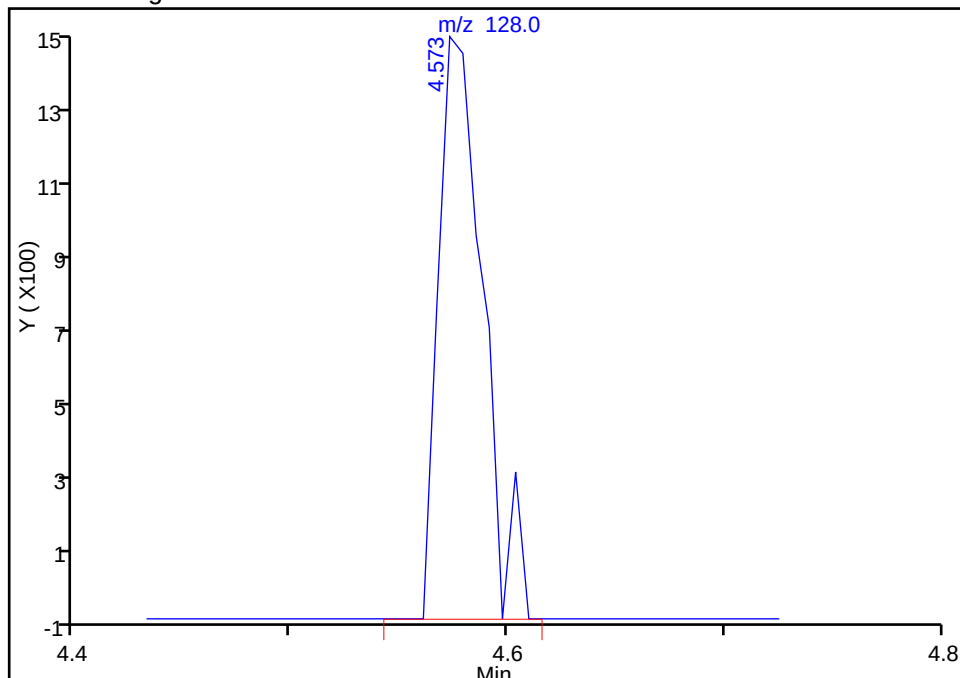
Not Detected
Expected RT: 4.58

Processing Integration Results



RT: 4.57
Area: 2025
Amount: 0.500203
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:38:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D

Injection Date: 09-Nov-2015 17:43:30

Instrument ID: HP5973S

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

37

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)

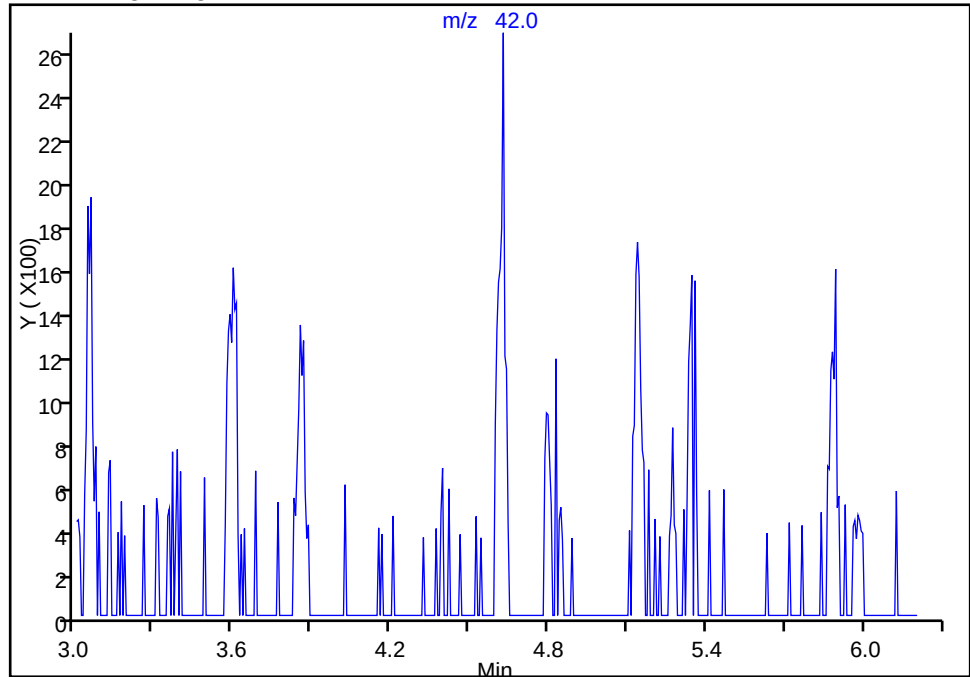
Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Not Detected

Expected RT: 4.60

Processing Integration Results



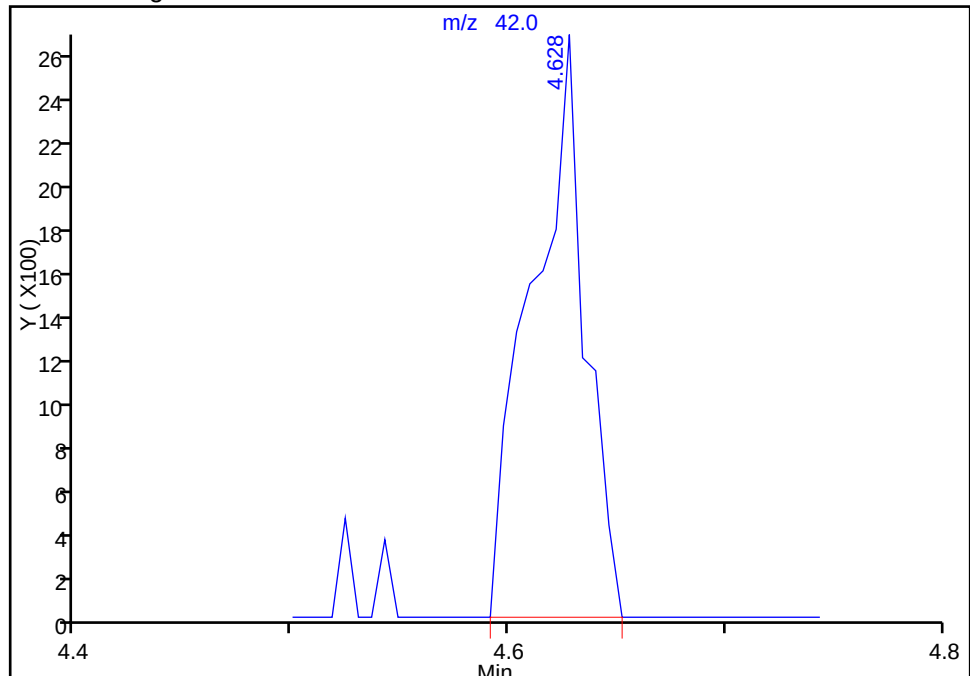
RT: 4.63

Area: 4594

Amount: 1.175937

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:38:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

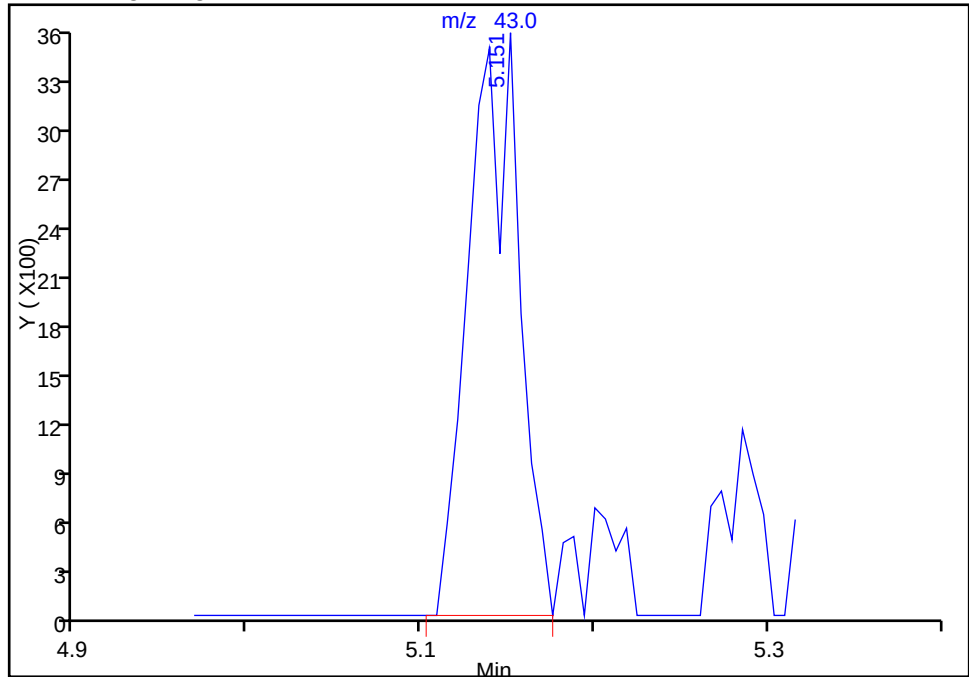
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D
Injection Date: 09-Nov-2015 17:43:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 37 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

53 Isobutyl alcohol, CAS: 78-83-1

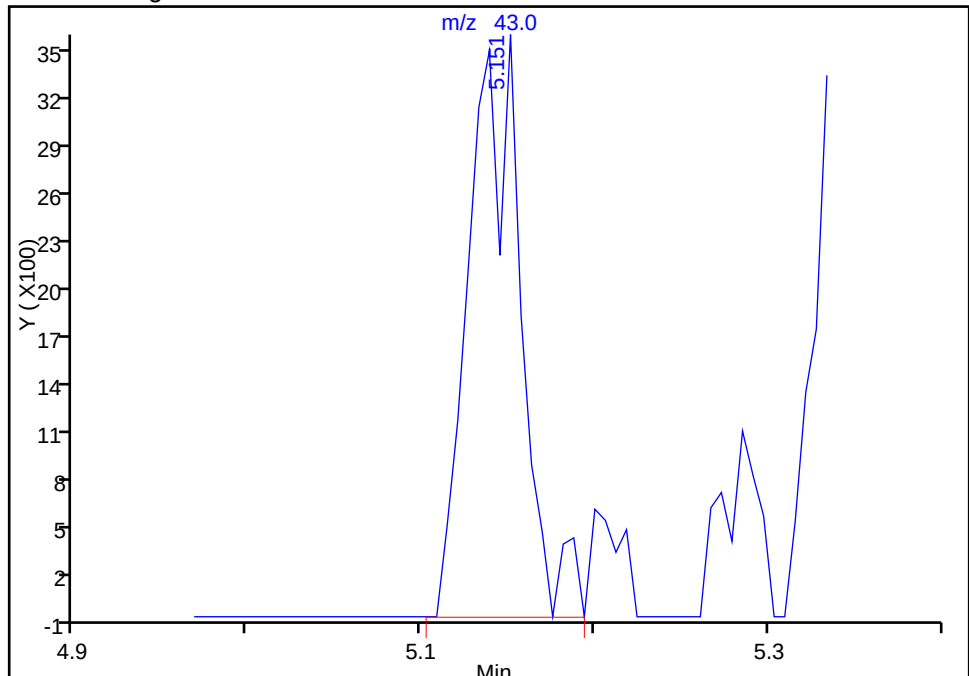
RT: 5.15
Area: 7100
Amount: 12.316425
Amount Units: ug/L

Processing Integration Results



RT: 5.15
Area: 7455
Amount: 12.714690
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:40:54
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

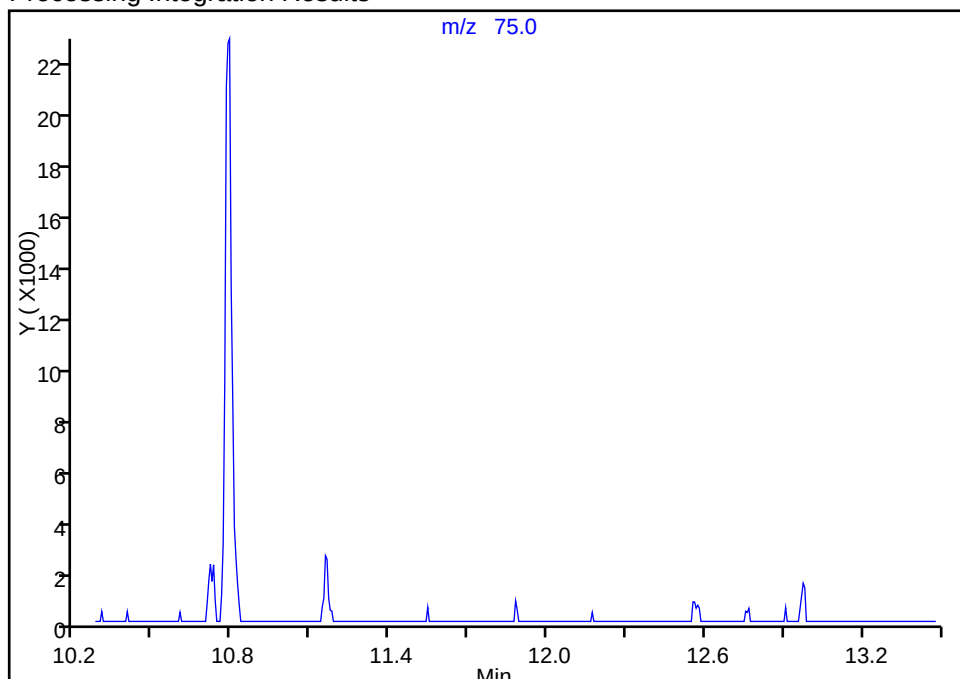
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4480.D
Injection Date: 09-Nov-2015 17:43:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 37 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

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

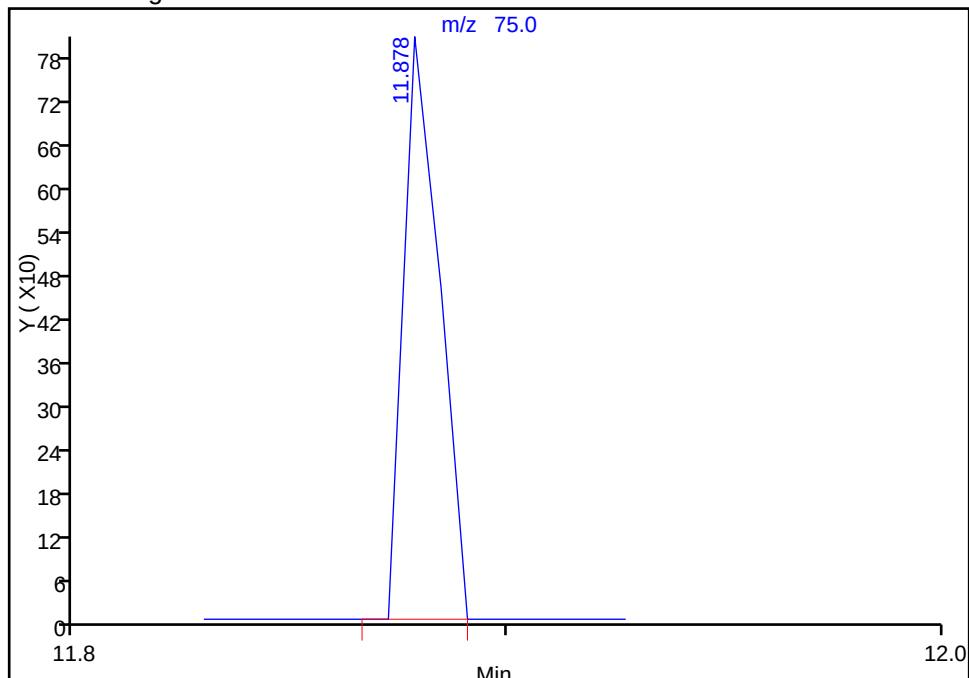
Not Detected
Expected RT: 11.88

Processing Integration Results



RT: 11.88
Area: 463
Amount: 0.331381
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:38:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Nov-2015 18:06:30 ALS Bottle#: 38 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 480-0048176-006
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:27 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:40:34

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	5.401	5.401	0.000	96	203263	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	401803	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	352922	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.000	80	221010	27.2	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	170793	27.2	27.0	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	942678	27.2	26.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.650	-0.006	81	249903	27.2	25.5	
10 Dichlorodifluoromethane	85	1.243	1.249	-0.006	56	9074	1.00	0.9345	
12 Chloromethane	50	1.401	1.407	-0.006	77	18236	1.00	1.05	
13 Vinyl chloride	62	1.517	1.511	0.006	38	10429	1.00	1.01	
151 Butadiene	54	1.541	1.535	0.006	75	9631	1.00	0.7868	
14 Bromomethane	94	1.803	1.797	0.006	28	2871	1.00	1.11	
15 Chloroethane	64	1.919	1.913	0.006	0	2531	1.00	0.9876	M
16 Dichlorofluoromethane	67	2.132	2.132	0.000	39	7194	1.00	0.7622	
17 Trichlorofluoromethane	101	2.138	2.150	-0.012	33	7370	1.00	0.7683	
18 Ethyl ether	59	2.418	2.418	0.000	73	12509	1.00	1.12	
20 Acrolein	56	2.576	2.582	-0.006	65	11887	5.00	4.90	
21 1,1,2-Trichloro-1,2,2-trif	101	2.662	2.649	0.013	11	5499	1.00	0.6996	
22 1,1-Dichloroethene	96	2.668	2.655	0.013	53	7930	1.00	1.03	
23 Acetone	43	2.735	2.734	0.001	83	22919	5.00	5.43	
25 Iodomethane	142	2.820	2.814	0.006	45	5554	1.00	0.7952	
26 Carbon disulfide	76	2.856	2.856	0.000	81	14459	1.00	0.7348	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	51	15395	1.00	0.9130	
27 Methyl acetate	43	3.045	3.039	0.006	97	52177	5.00	4.84	
30 Methylene Chloride	84	3.161	3.167	-0.006	64	14755	1.00	0.9509	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	50	9610	10.0	7.97	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	83	22807	1.00	0.9650	
34 trans-1,2-Dichloroethene	96	3.380	3.374	0.006	56	6499	1.00	0.8403	
33 Acrylonitrile	53	3.410	3.404	0.006	84	49622	10.0	9.02	
35 Hexane	57	3.593	3.593	0.000	81	18709	1.00	0.9579	

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	3.788	3.788	0.000	47	17617	1.00	0.9292	
37 Vinyl acetate	43	3.849	3.849	0.000	91	39557	2.00	1.54	
44 2,2-Dichloropropane	77	4.311	4.317	-0.006	51	6756	1.00	0.9493	
45 cis-1,2-Dichloroethene	96	4.348	4.342	0.006	54	7204	1.00	0.8118	
43 2-Butanone (MEK)	43	4.378	4.372	0.006	91	24827	5.00	4.04	
48 Chlorobromomethane	128	4.567	4.579	-0.012	63	3540	1.00	0.8587	
49 Tetrahydrofuran	42	4.610	4.603	0.007	73	7375	2.00	1.85	
50 Chloroform	83	4.652	4.652	0.000	68	14645	1.00	0.9625	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	1	7464	1.00	0.7329	
52 Cyclohexane	56	4.804	4.804	0.000	9	16616	1.00	0.8215	
55 Carbon tetrachloride	117	4.926	4.926	0.000	59	7876	1.00	0.7903	
54 1,1-Dichloropropene	75	4.938	4.932	0.006	48	10515	1.00	0.8645	
53 Isobutyl alcohol	43	5.133	5.133	0.000	37	12234	25.0	20.5	M
57 Benzene	78	5.133	5.133	0.000	60	32898	1.00	0.9546	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	57	16752	1.00	1.03	
59 n-Heptane	43	5.340	5.340	0.000	78	16616	1.00	0.8516	
62 Trichloroethene	95	5.748	5.748	0.000	72	7388	1.00	0.8793	
64 Methylcyclohexane	83	5.888	5.888	0.000	53	11436	1.00	0.8034	
65 1,2-Dichloropropane	63	5.973	5.979	-0.006	44	7218	1.00	0.7354	M
67 Dibromomethane	93	6.113	6.113	0.000	40	4107	1.00	0.8166	M
66 1,4-Dioxane	88	6.125	6.119	0.006	0	1895	20.0	19.4	M
68 Dichlorobromomethane	83	6.259	6.265	-0.006	37	7862	1.00	0.8059	
69 2-Chloroethyl vinyl ether	63	6.546	6.545	0.001	25	4457	1.00	0.7206	
72 cis-1,3-Dichloropropene	75	6.686	6.685	0.001	18	7573	1.00	0.6477	M
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	90	48364	5.00	3.98	
74 Toluene	92	6.984	6.984	0.000	75	20202	1.00	0.9349	
77 trans-1,3-Dichloropropene	75	7.252	7.246	0.006	62	8350	1.00	0.7483	
75 Ethyl methacrylate	69	7.307	7.306	0.001	54	7626	1.00	0.7879	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	64	6090	1.00	0.9703	
81 Tetrachloroethene	166	7.526	7.520	0.006	75	8172	1.00	0.9267	
82 1,3-Dichloropropane	76	7.593	7.599	-0.006	69	13890	1.00	0.9671	
80 2-Hexanone	43	7.672	7.666	0.006	83	32969	5.00	3.90	
83 Chlorodibromomethane	129	7.836	7.836	0.000	10	3862	1.00	1.21	
84 Ethylene Dibromide	107	7.927	7.940	-0.013	38	6071	1.00	0.8003	
87 Chlorobenzene	112	8.427	8.427	0.000	47	24017	1.00	0.9682	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	21	6154	1.00	0.8342	
88 Ethylbenzene	91	8.524	8.524	0.000	77	32458	1.00	0.8120	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	13150	1.00	0.8301	
91 o-Xylene	106	9.066	9.072	-0.006	88	12393	1.00	0.8428	
92 Styrene	104	9.096	9.096	0.000	49	16943	1.00	0.7244	
95 Bromoform	173	9.328	9.334	-0.006	1	1770	1.00	1.23	
94 Isopropylbenzene	105	9.462	9.462	0.000	64	28866	1.00	0.7888	
101 Bromobenzene	156	9.796	9.796	0.000	83	8458	1.00	0.9575	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	32	8717	1.00	0.9389	
100 1,2,3-Trichloropropane	110	9.870	9.869	0.001	47	2879	1.00	0.9275	
98 trans-1,4-Dichloro-2-buten	53	9.894	9.882	0.012	1	1767	1.00	1.08	
99 N-Propylbenzene	91	9.888	9.888	0.000	88	41191	1.00	0.9073	
103 2-Chlorotoluene	126	9.985	9.985	0.000	81	7622	1.00	0.8430	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	71	27065	1.00	0.8351	
105 4-Chlorotoluene	126	10.095	10.095	0.000	73	8119	1.00	0.8675	
106 tert-Butylbenzene	134	10.381	10.381	0.000	72	6767	1.00	0.9187	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	63	28007	1.00	0.8664	

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	10.594	10.594	0.000	57	30530	1.00	0.7728	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	59	17277	1.00	0.9667	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	63	26592	1.00	0.7922	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	4	18325	1.00	0.99	
115 n-Butylbenzene	91	11.118	11.117	0.001	81	24065	1.00	0.7861	
116 1,2-Dichlorobenzene	146	11.154	11.160	-0.006	71	17054	1.00	0.9797	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	1	1164	1.00	0.8155	
119 1,2,4-Trichlorobenzene	180	12.560	12.560	0.000	46	9540	1.00	0.8089	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	21	5183	1.00	0.9250	
121 Naphthalene	128	12.773	12.773	0.000	74	17961	1.00	0.6744	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	63	8332	1.00	0.7737	
S 123 Total BTEX	1				0			4.37	
S 124 Xylenes, Total	1				0			1.67	
S 125 1,2-Dichloroethene, Total	1				0			1.65	
S 126 1,3-Dichloropropene, Total	1				0			1.40	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00058

Amount Added: 1.00

Units: uL

GAS CORP mix_00119

Amount Added: 1.00

Units: uL

S_8260_IS_00123

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00114

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D

Injection Date: 09-Nov-2015 18:06:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

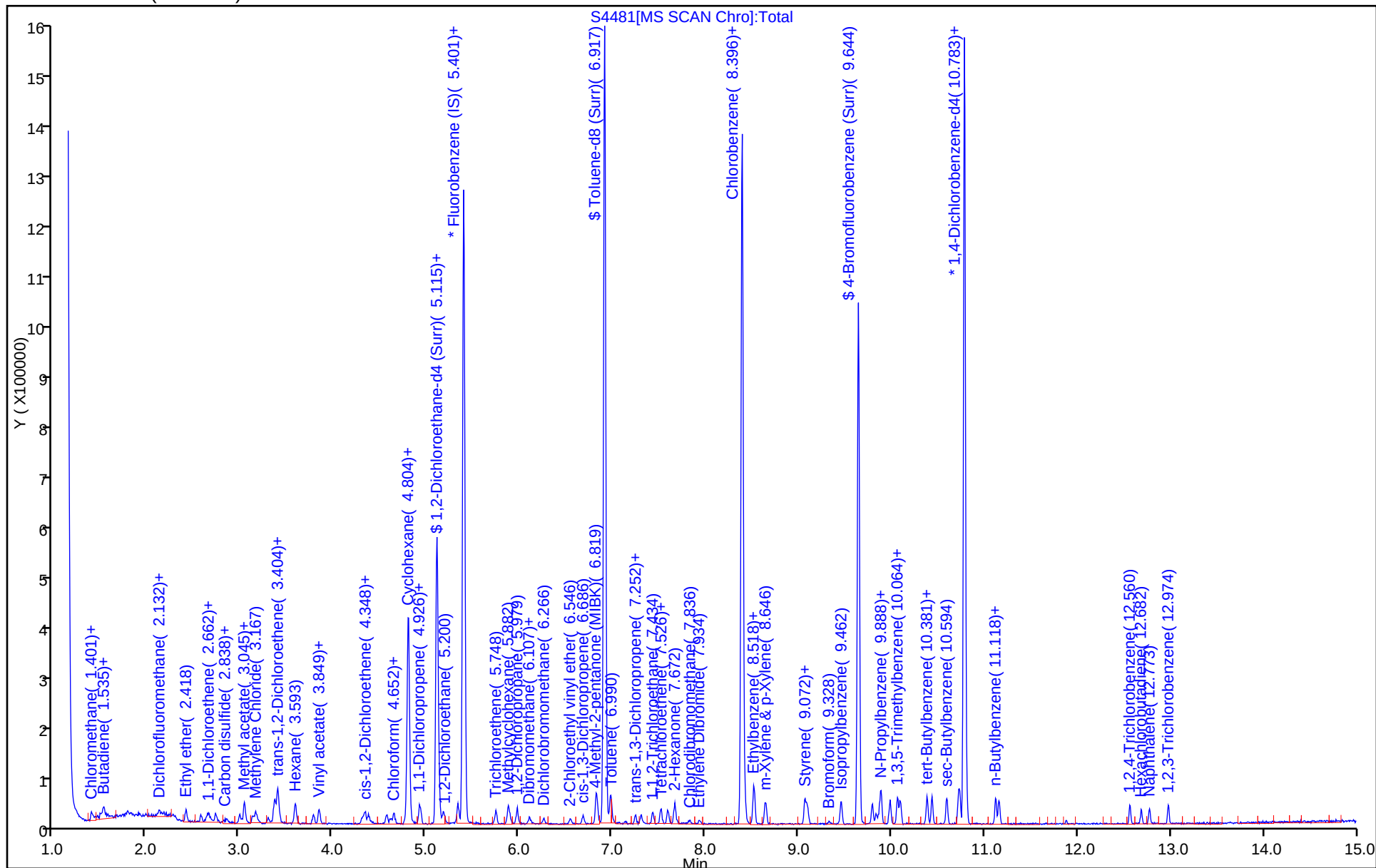
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



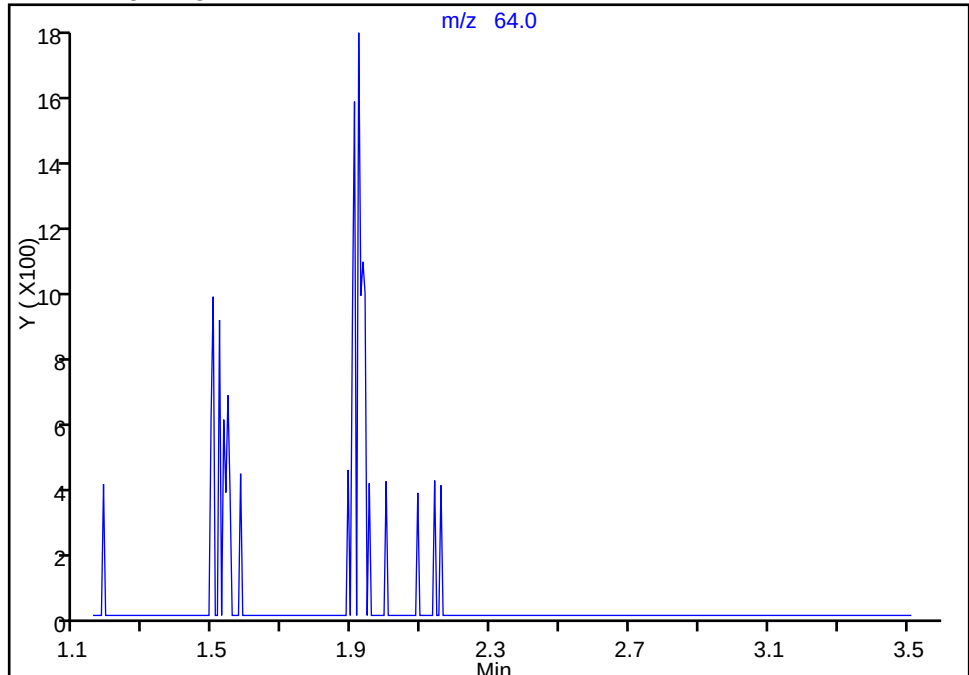
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D
Injection Date: 09-Nov-2015 18:06:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 38 Worklist Smp#: 6
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

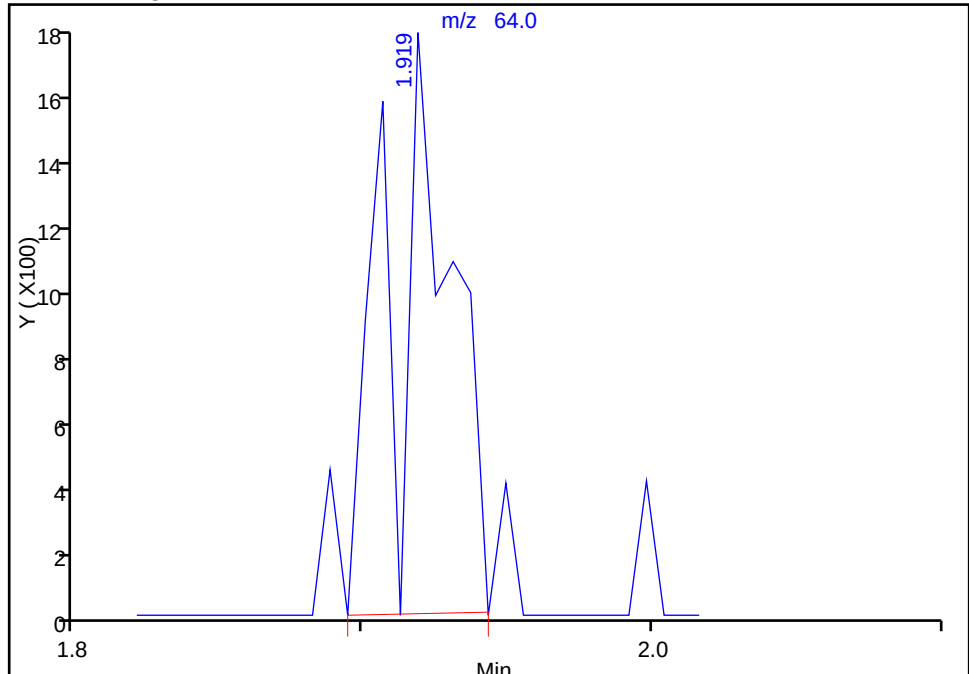
Not Detected
Expected RT: 1.91

Processing Integration Results



RT: 1.92
Area: 2531
Amount: 0.987572
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:40:34
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D

Injection Date: 09-Nov-2015 18:06:30

Instrument ID: HP5973S

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

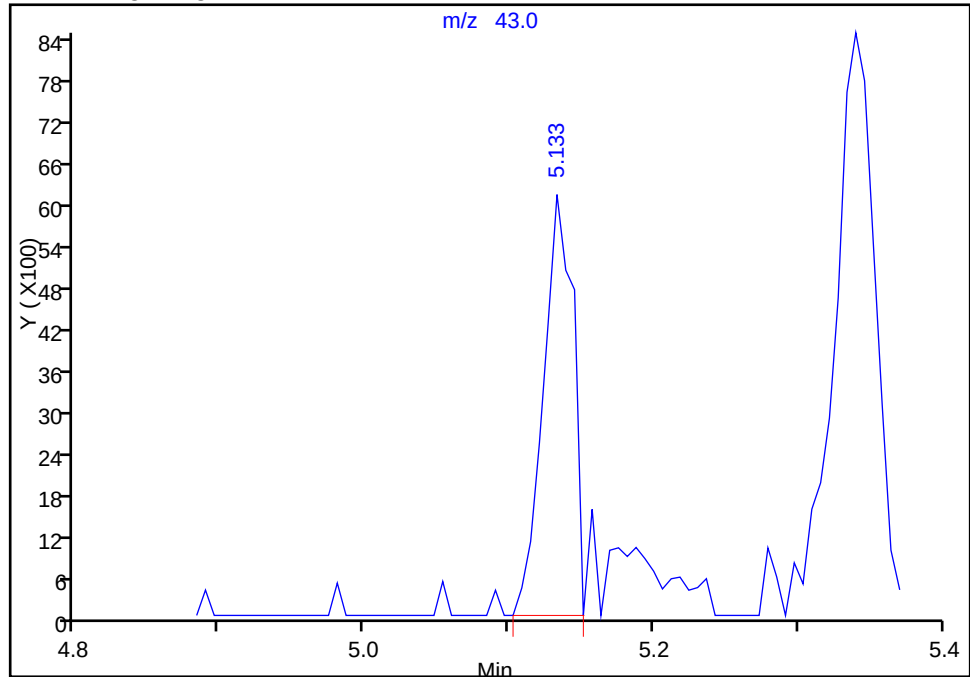
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

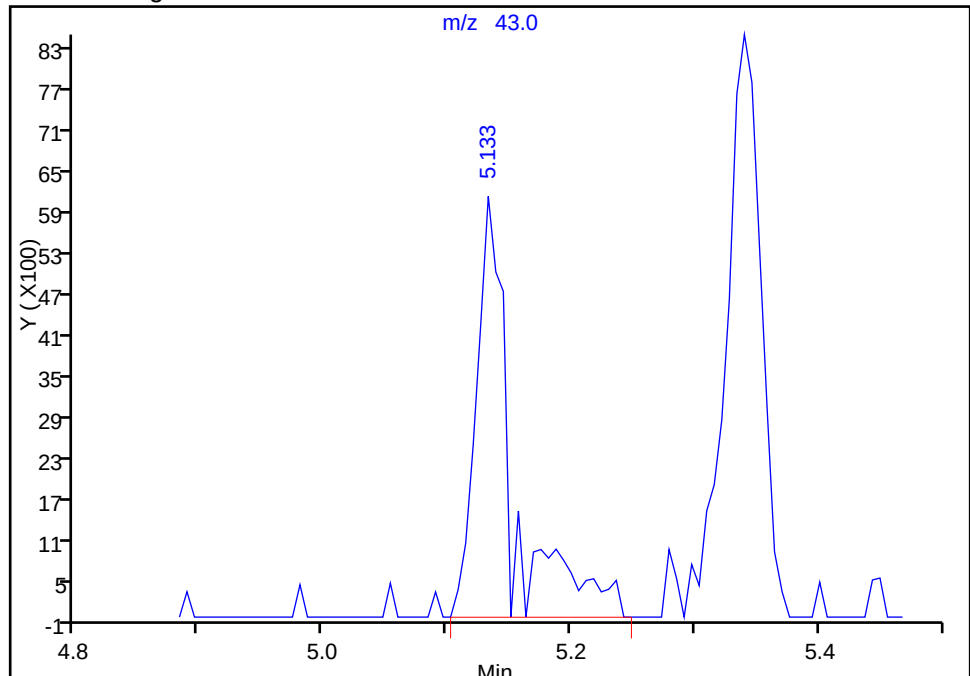
RT: 5.13
Area: 8744
Amount: 15.419376
Amount Units: ug/L

Processing Integration Results



RT: 5.13
Area: 12234
Amount: 20.490200
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:40:34

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

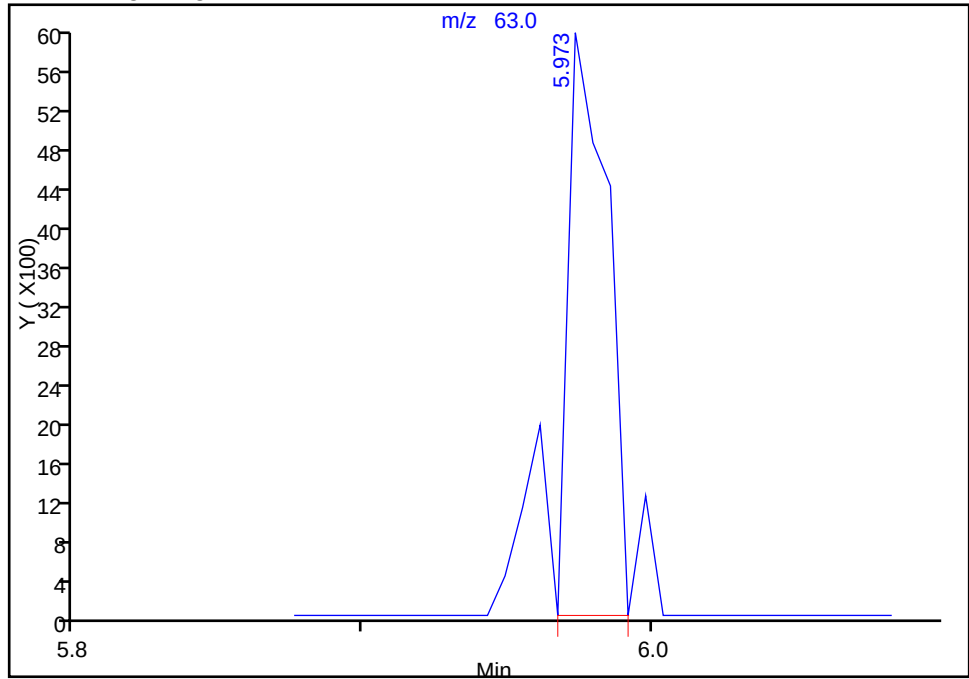
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D
Injection Date: 09-Nov-2015 18:06:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 38 Worklist Smp#: 6
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

65 1,2-Dichloropropane, CAS: 78-87-5

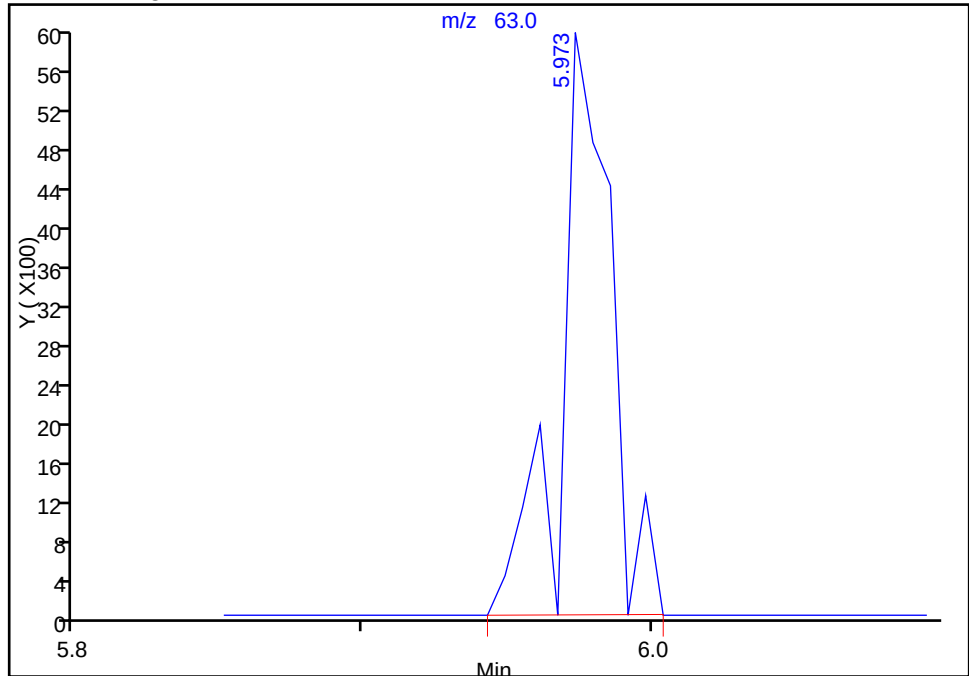
RT: 5.97
Area: 5531
Amount: 0.493842
Amount Units: ug/L

Processing Integration Results



RT: 5.97
Area: 7218
Amount: 0.735360
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:42:24
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

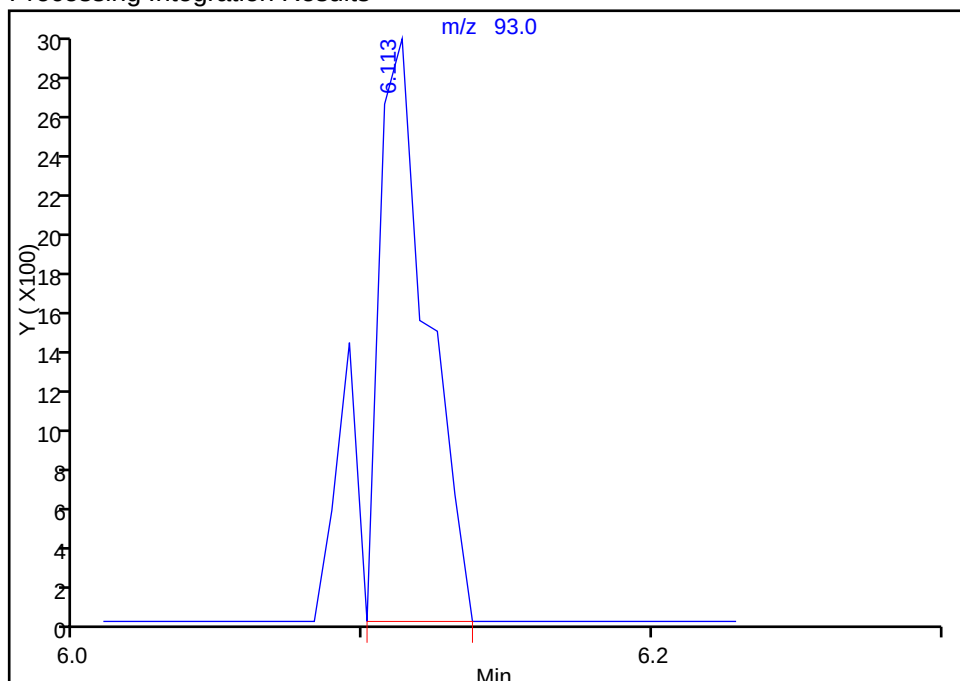
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D
Injection Date: 09-Nov-2015 18:06:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 38 Worklist Smp#: 6
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

67 Dibromomethane, CAS: 74-95-3

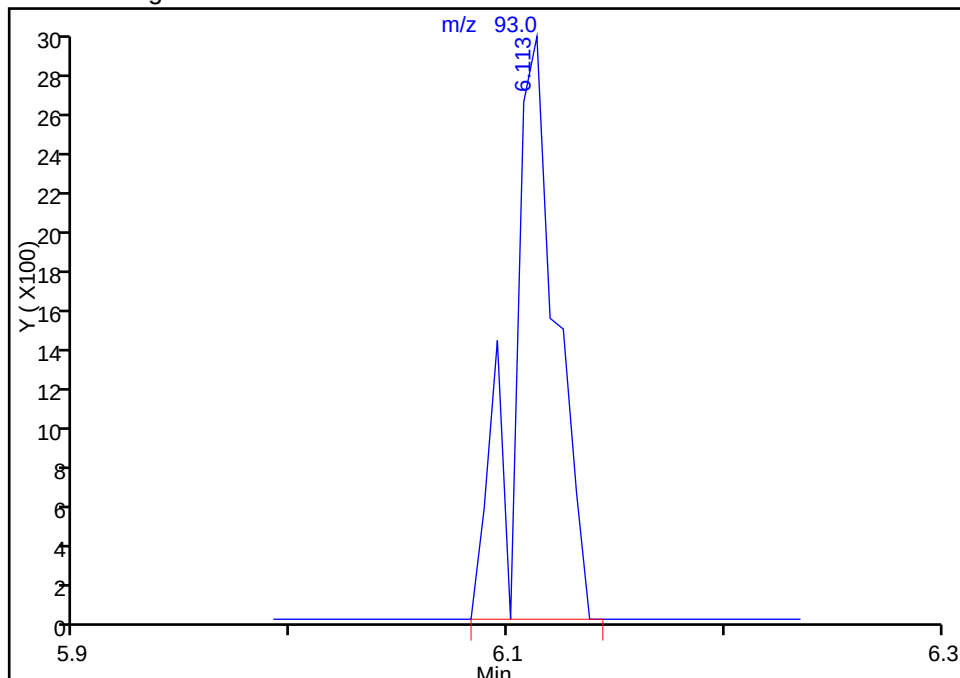
RT: 6.11
Area: 3382
Amount: 0.686590
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 4107
Amount: 0.816604
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:42:24
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

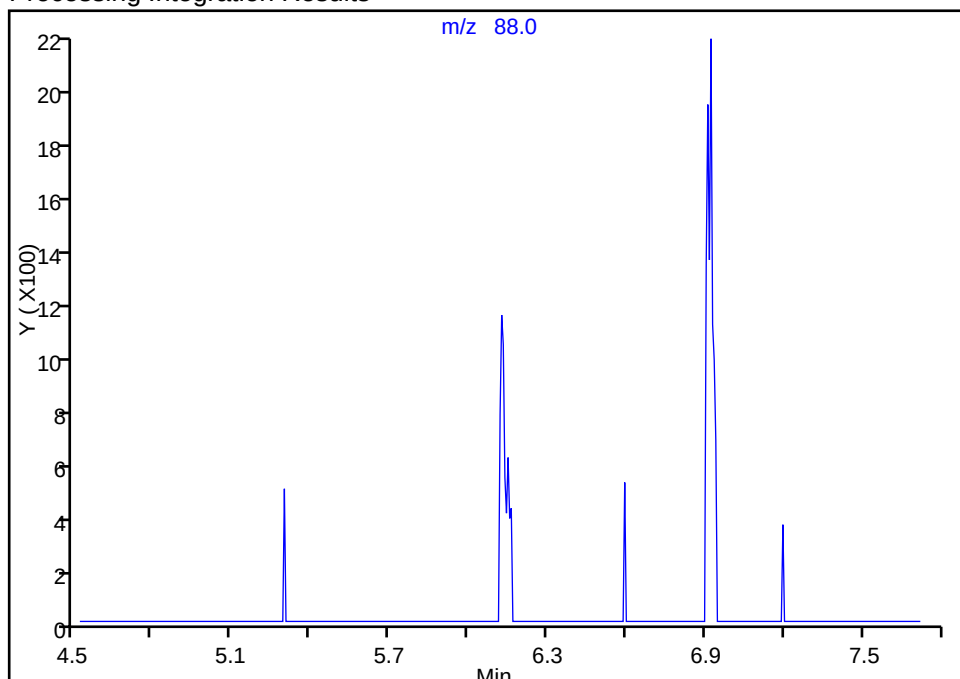
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D
Injection Date: 09-Nov-2015 18:06:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 38 Worklist Smp#: 6
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

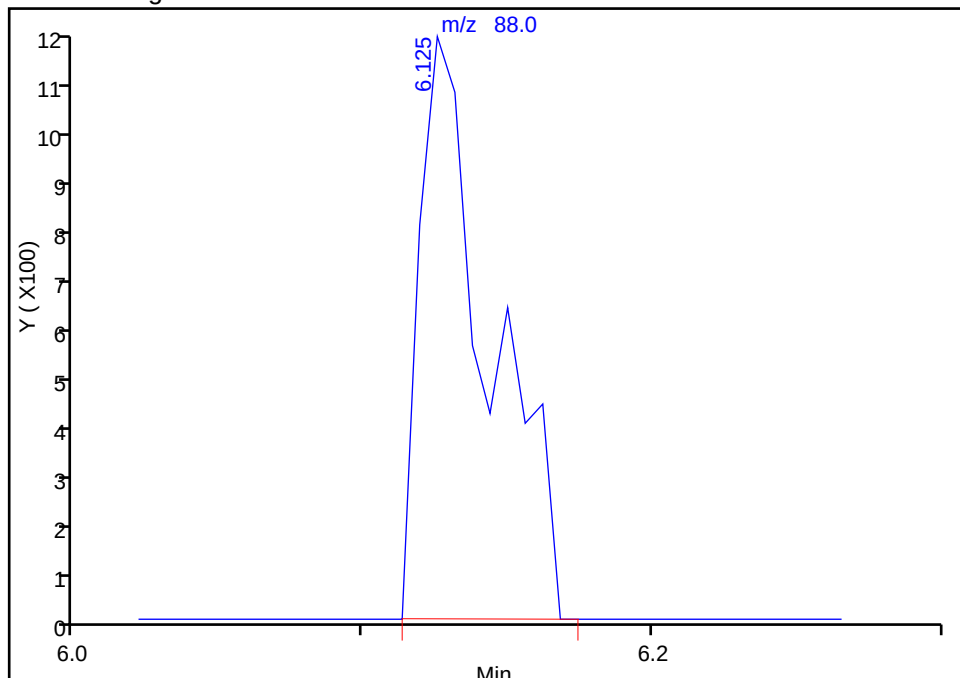
Not Detected
Expected RT: 6.12

Processing Integration Results



RT: 6.13
Area: 1895
Amount: 19.390891
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:42:24
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4481.D

Injection Date: 09-Nov-2015 18:06:30

Instrument ID: HP5973S

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

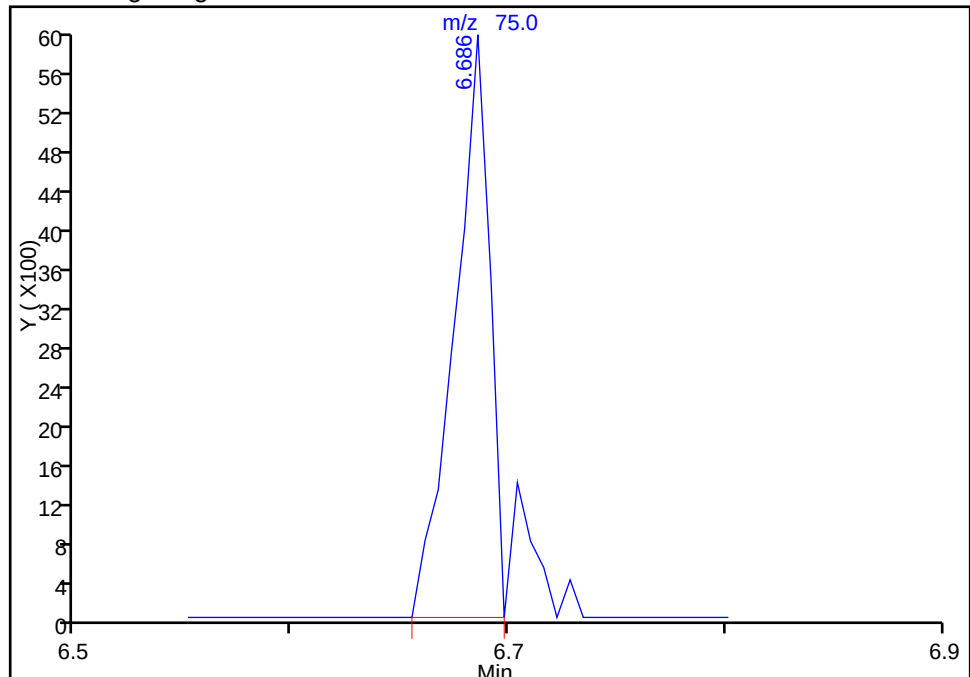
Detector

MS SCAN

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

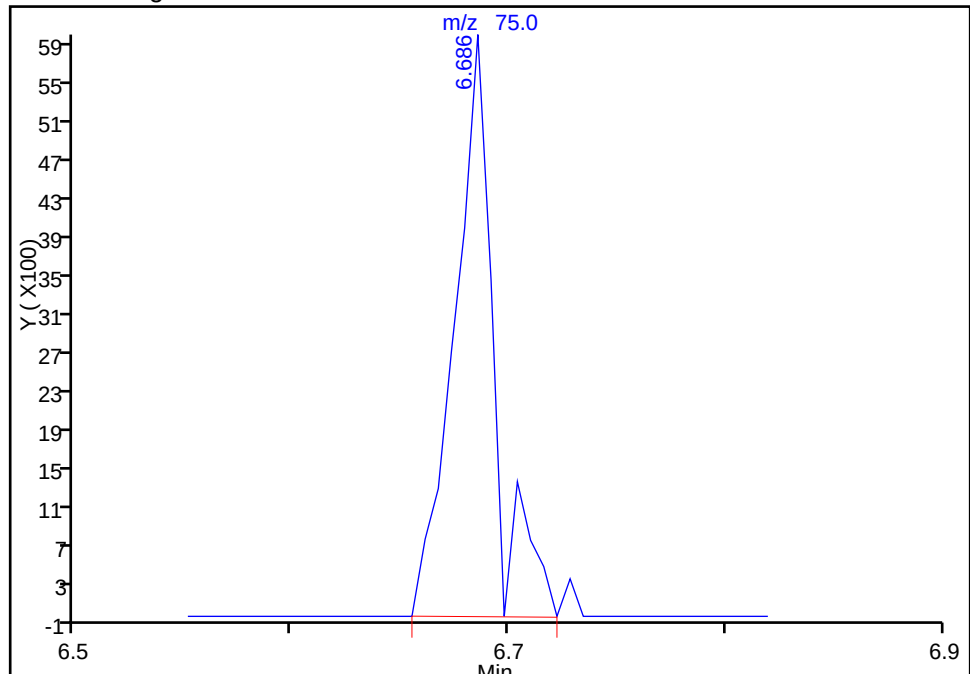
RT: 6.69
Area: 6592
Amount: 0.570606
Amount Units: ug/L

Processing Integration Results



RT: 6.69
Area: 7573
Amount: 0.647665
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:42:24

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4482.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Nov-2015 18:29:30 ALS Bottle#: 39 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 480-0048176-007
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:30 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:43:40

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	5.401	5.401	0.000	96	211404	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	414022	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	91	360599	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.810	-0.006	82	234228	27.2	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	178469	27.2	27.2	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	979808	27.2	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.650	-0.006	81	269271	27.2	26.6	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	75	53275	5.00	5.28	
12 Chloromethane	50	1.407	1.407	0.000	82	91270	5.00	5.07	
13 Vinyl chloride	62	1.511	1.511	0.000	71	53491	5.00	4.98	
151 Butadiene	54	1.535	1.535	0.000	88	63156	5.00	4.96	
14 Bromomethane	94	1.815	1.797	0.018	64	13124	5.00	4.86	
15 Chloroethane	64	1.919	1.913	0.006	66	21638	5.00	4.75	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	70	46721	5.00	4.76	
17 Trichlorofluoromethane	101	2.144	2.150	-0.006	66	45339	5.00	4.54	
18 Ethyl ether	59	2.418	2.418	0.000	93	59344	5.00	5.10	
20 Acrolein	56	2.582	2.582	0.000	91	61782	25.0	24.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.661	2.649	0.012	36	47256	5.00	5.78	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	74	42417	5.00	5.28	
23 Acetone	43	2.741	2.734	0.006	96	109245	25.0	24.9	
25 Iodomethane	142	2.820	2.814	0.006	94	42780	5.00	4.23	
26 Carbon disulfide	76	2.856	2.856	0.000	94	97934	5.00	4.79	
28 3-Chloro-1-propene	41	3.002	2.996	0.006	62	83001	5.00	4.73	
27 Methyl acetate	43	3.045	3.039	0.006	97	278323	25.0	24.8	
30 Methylene Chloride	84	3.173	3.167	0.006	79	50764	5.00	5.13	
31 2-Methyl-2-propanol	59	3.307	3.301	0.006	90	56314	50.0	44.9	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	90	122428	5.00	4.98	
34 trans-1,2-Dichloroethene	96	3.380	3.374	0.006	78	39473	5.00	4.91	
33 Acrylonitrile	53	3.404	3.404	0.000	98	287851	50.0	50.3	
35 Hexane	57	3.599	3.593	0.006	91	105726	5.00	5.20	

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	3.788	3.788	0.000	83	103219	5.00	5.23	
37 Vinyl acetate	43	3.848	3.849	-0.001	97	251937	10.0	9.41	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	78	36681	5.00	4.96	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	67	48895	5.00	5.30	
43 2-Butanone (MEK)	43	4.378	4.372	0.006	93	153734	25.0	24.0	
48 Chlorobromomethane	128	4.573	4.579	-0.006	80	22495	5.00	5.25	
49 Tetrahydrofuran	42	4.609	4.603	0.006	91	40213	10.0	9.72	
50 Chloroform	83	4.658	4.652	0.006	83	83706	5.00	5.29	
51 1,1,1-Trichloroethane	97	4.786	4.780	0.006	76	54757	5.00	5.17	
52 Cyclohexane	56	4.798	4.804	-0.006	55	105592	5.00	5.02	
55 Carbon tetrachloride	117	4.926	4.926	0.000	68	52834	5.00	5.10	
54 1,1-Dichloropropene	75	4.938	4.932	0.006	80	63398	5.00	5.01	
53 Isobutyl alcohol	43	5.133	5.133	0.000	56	72253	125.0	116.4	M
57 Benzene	78	5.139	5.133	0.006	88	190622	5.00	5.32	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	58	88224	5.00	5.20	
59 n-Heptane	43	5.340	5.340	0.000	95	109838	5.00	5.41	
62 Trichloroethene	95	5.748	5.748	0.000	84	49111	5.00	5.62	
64 Methylcyclohexane	83	5.888	5.888	0.000	96	81221	5.00	5.49	
65 1,2-Dichloropropane	63	5.973	5.979	-0.006	79	54707	5.00	5.36	
67 Dibromomethane	93	6.113	6.113	0.000	82	26639	5.00	5.09	
66 1,4-Dioxane	88	6.119	6.119	0.000	27	9366	100.0	93.0	
68 Dichlorobromomethane	83	6.265	6.265	0.000	84	51072	5.00	5.03	
69 2-Chloroethyl vinyl ether	63	6.551	6.545	0.006	79	28603	5.00	4.45	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	71	57354	5.00	4.72	
73 4-Methyl-2-pentanone (MIBK)	43	6.832	6.825	0.007	95	300231	25.0	24.0	
74 Toluene	92	6.984	6.984	0.000	93	117230	5.00	5.26	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	80	52429	5.00	4.56	
75 Ethyl methacrylate	69	7.306	7.306	0.000	93	41919	5.00	4.20	
79 1,1,2-Trichloroethane	83	7.428	7.434	-0.006	85	30022	5.00	4.64	
81 Tetrachloroethene	166	7.526	7.520	0.006	85	46517	5.00	5.12	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	89	72198	5.00	4.88	
80 2-Hexanone	43	7.666	7.666	0.000	97	207772	25.0	23.9	
83 Chlorodibromomethane	129	7.836	7.836	0.000	68	27227	5.00	4.29	
84 Ethylene Dibromide	107	7.933	7.940	-0.007	81	40261	5.00	5.15	
87 Chlorobenzene	112	8.427	8.427	0.000	81	133430	5.00	5.22	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	38	37350	5.00	4.91	
88 Ethylbenzene	91	8.524	8.524	0.000	98	211578	5.00	5.14	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	79374	5.00	4.86	
91 o-Xylene	106	9.072	9.072	0.000	96	77986	5.00	5.15	
92 Styrene	104	9.096	9.096	0.000	86	120723	5.00	5.01	
95 Bromoform	173	9.334	9.334	0.000	80	14314	5.00	4.44	
94 Isopropylbenzene	105	9.455	9.462	-0.007	93	198322	5.00	5.30	
101 Bromobenzene	156	9.796	9.796	0.000	91	47273	5.00	5.24	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	80	48223	5.00	5.08	
100 1,2,3-Trichloropropane	110	9.863	9.869	-0.006	75	16371	5.00	5.16	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.882	0.000	33	21397	5.00	4.99	
99 N-Propylbenzene	91	9.888	9.888	0.000	98	248583	5.00	5.36	
103 2-Chlorotoluene	126	9.985	9.985	0.000	92	51106	5.00	5.53	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	93	173261	5.00	5.23	
105 4-Chlorotoluene	126	10.095	10.095	0.000	89	52715	5.00	5.51	
106 tert-Butylbenzene	134	10.387	10.381	0.006	89	36328	5.00	4.83	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	46	176980	5.00	5.36	

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	10.594	10.594	0.000	95	223149	5.00	5.53	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	92	98680	5.00	5.40	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	95	187078	5.00	5.45	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	75	102836	5.00	5.45	
115 n-Butylbenzene	91	11.117	11.117	0.000	93	164737	5.00	5.27	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	87	96939	5.00	5.45	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	29	6810	5.00	4.67	
119 1,2,4-Trichlorobenzene	180	12.566	12.560	0.006	88	60647	5.00	5.03	
120 Hexachlorobutadiene	225	12.682	12.688	-0.006	78	30215	5.00	5.28	
121 Naphthalene	128	12.773	12.773	0.000	96	124386	5.00	4.57	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	89	57728	5.00	5.25	
S 123 Total BTEX	1				0			25.7	
S 124 Xylenes, Total	1				0			10.0	
S 125 1,2-Dichloroethene, Total	1				0			10.2	
S 126 1,3-Dichloropropene, Total	1				0			9.28	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00058

Amount Added: 5.00

Units: uL

GAS CORP mix_00119

Amount Added: 5.00

Units: uL

S_8260_IS_00123

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00114

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151109-48176.b\\S4482.D

Injection Date: 09-Nov-2015 18:29:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

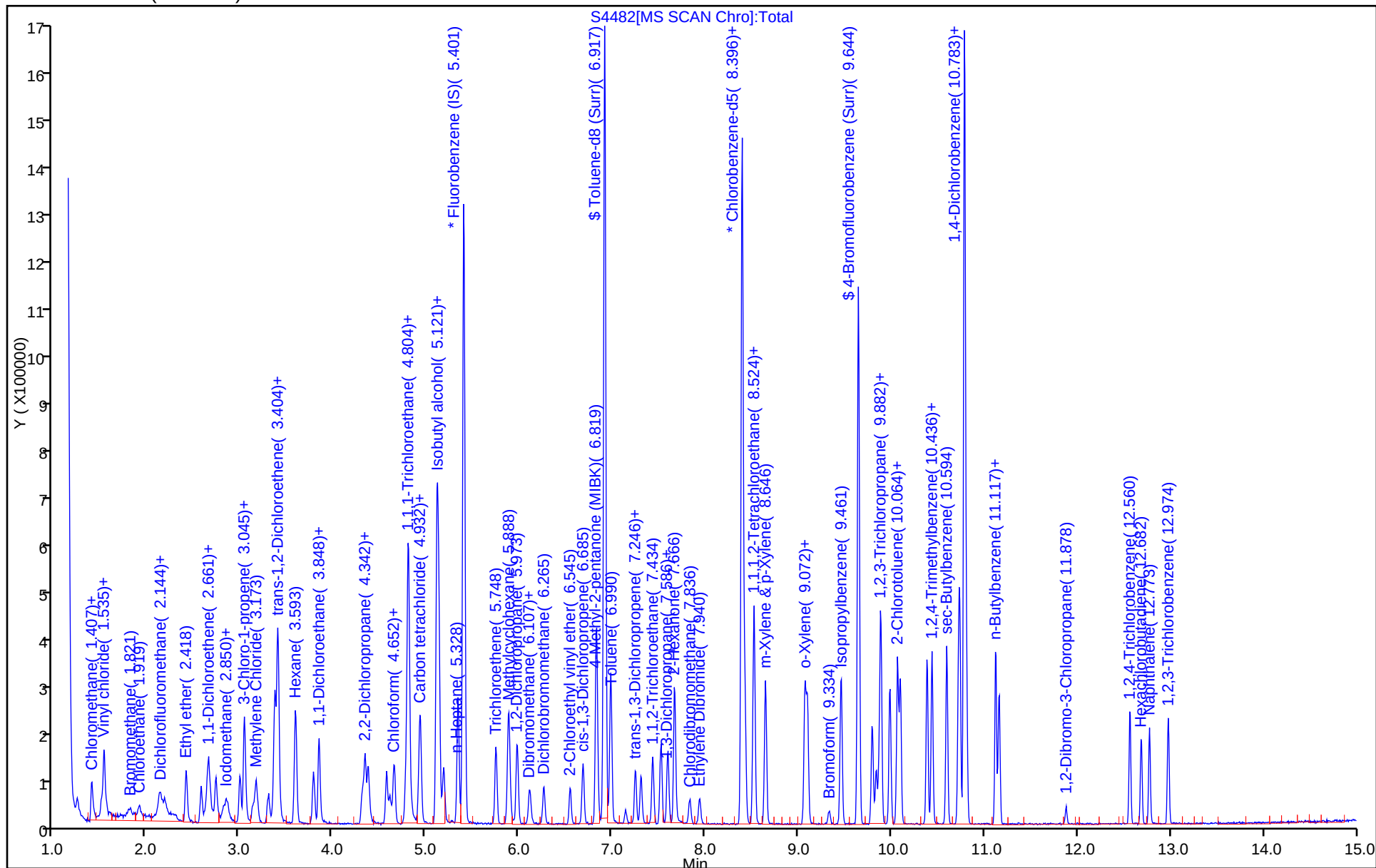
Dil. Factor: 1.0000

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\20151109-48176.b\S4482.D

Injection Date: 09-Nov-2015 18:29:30

Instrument ID: HP5973S

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

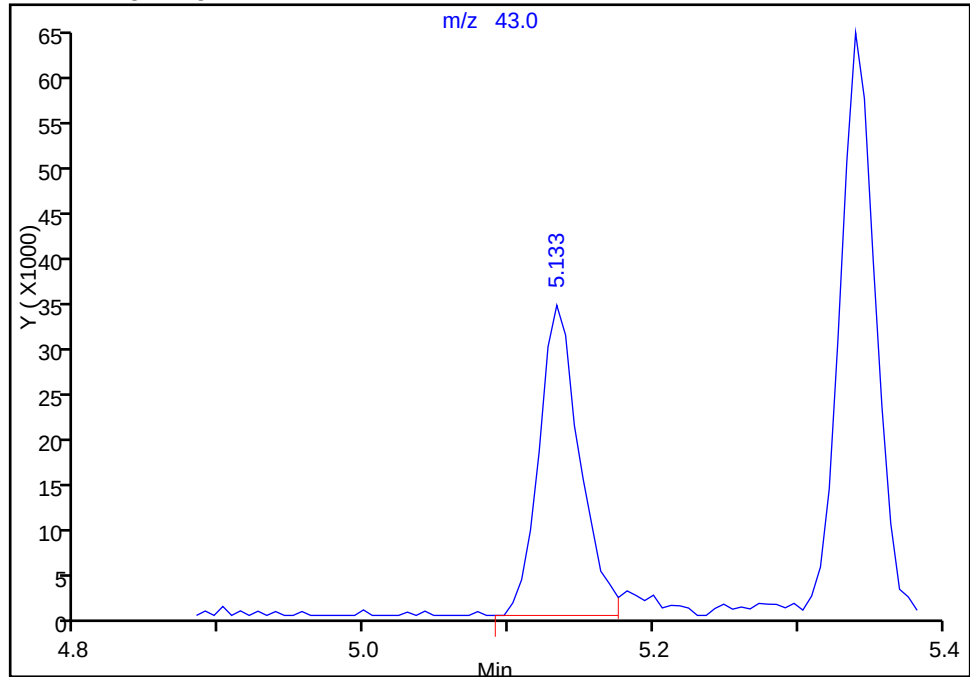
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

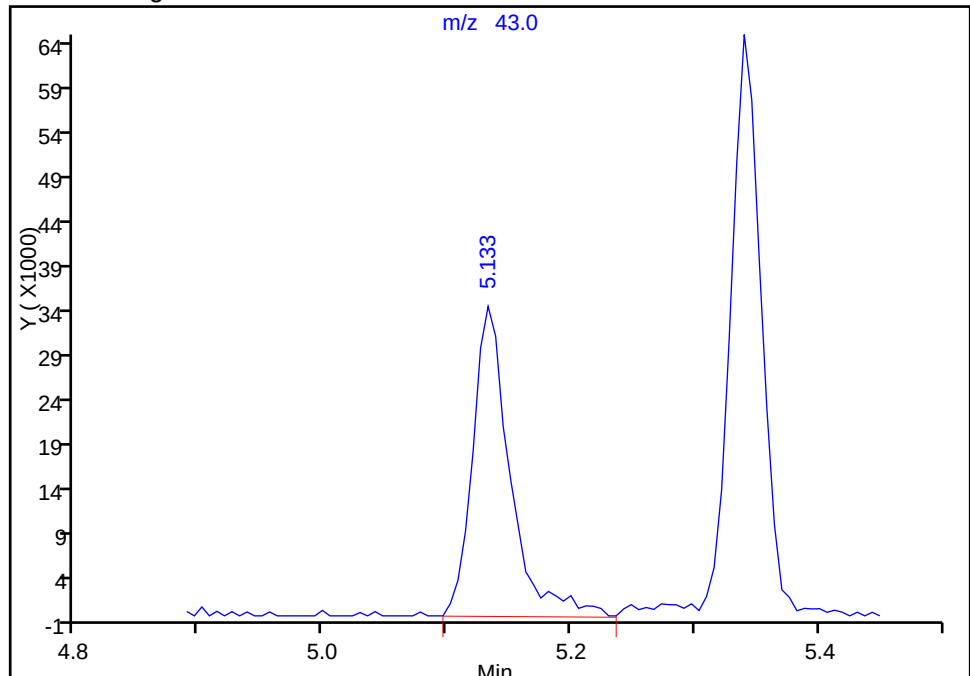
RT: 5.13
Area: 66872
Amount: 108.7651
Amount Units: ug/L

Processing Integration Results



RT: 5.13
Area: 72253
Amount: 116.3533
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:43:40
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4483.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Nov-2015 18:51:30 ALS Bottle#: 40 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 3
 Misc. Info.: 480-0048176-008
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:34 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:45:13

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	5.407	5.407	0.000	96	207381	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	399718	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	89	364497	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	80	232107	27.2	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	177192	27.2	27.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	978689	27.2	27.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	266677	27.2	27.3	
10 Dichlorodifluoromethane	85	1.255	1.255	0.000	79	101594	10.0	10.3	
12 Chloromethane	50	1.407	1.407	0.000	89	172578	10.0	9.78	
13 Vinyl chloride	62	1.511	1.511	0.000	78	104741	10.0	9.94	
151 Butadiene	54	1.535	1.535	0.000	87	127801	10.0	10.2	
14 Bromomethane	94	1.797	1.797	0.000	78	23200	10.0	8.75	
15 Chloroethane	64	1.913	1.913	0.000	90	49348	10.0	10.4	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	78	102776	10.0	10.7	
17 Trichlorofluoromethane	101	2.150	2.150	0.000	64	107167	10.0	11.0	
18 Ethyl ether	59	2.418	2.418	0.000	97	114117	10.0	10.0	
20 Acrolein	56	2.582	2.582	0.000	91	125460	50.0	50.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	56	89105	10.0	11.1	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	77	77798	10.0	9.87	
23 Acetone	43	2.741	2.741	0.000	98	220057	50.0	51.1	
25 Iodomethane	142	2.814	2.814	0.000	96	111899	10.0	10.9	
26 Carbon disulfide	76	2.850	2.850	0.000	99	206137	10.0	10.3	
28 3-Chloro-1-propene	41	3.002	3.002	0.000	83	171649	10.0	9.98	
27 Methyl acetate	43	3.045	3.045	0.000	97	543665	50.0	49.4	
30 Methylene Chloride	84	3.167	3.167	0.000	83	94244	10.0	10.5	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	94	121067	100.0	98.4	M
32 Methyl tert-butyl ether	73	3.374	3.374	0.000	87	245079	10.0	10.2	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	78	85418	10.0	10.8	
33 Acrylonitrile	53	3.404	3.404	0.000	97	569435	100.0	101.4	
35 Hexane	57	3.599	3.599	0.000	93	205205	10.0	10.3	

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	3.788	3.788	0.000	86	196182	10.0	10.1	
37 Vinyl acetate	43	3.849	3.849	0.000	97	548108	20.0	20.9	
44 2,2-Dichloropropane	77	4.323	4.323	0.000	78	75327	10.0	10.4	
45 cis-1,2-Dichloroethene	96	4.348	4.348	0.000	71	94036	10.0	10.4	
43 2-Butanone (MEK)	43	4.378	4.378	0.000	92	317657	50.0	50.6	
48 Chlorobromomethane	128	4.573	4.573	0.000	80	44661	10.0	10.6	
49 Tetrahydrofuran	42	4.610	4.610	0.000	86	81704	20.0	20.1	
50 Chloroform	83	4.652	4.652	0.000	82	158899	10.0	10.2	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	86	114847	10.0	11.1	
52 Cyclohexane	56	4.810	4.810	0.000	71	221571	10.0	10.7	
55 Carbon tetrachloride	117	4.926	4.926	0.000	73	105898	10.0	10.4	
54 1,1-Dichloropropene	75	4.938	4.938	0.000	83	126219	10.0	10.2	
53 Isobutyl alcohol	43	5.133	5.133	0.000	61	152771	250.0	250.8	
57 Benzene	78	5.133	5.133	0.000	90	370620	10.0	10.5	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	71	174150	10.0	10.5	
59 n-Heptane	43	5.346	5.346	0.000	95	212464	10.0	10.7	
62 Trichloroethene	95	5.748	5.748	0.000	88	89261	10.0	10.4	
64 Methylcyclohexane	83	5.888	5.888	0.000	95	153364	10.0	10.6	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	88	108550	10.0	10.8	
67 Dibromomethane	93	6.113	6.113	0.000	85	55073	10.0	10.7	
66 1,4-Dioxane	88	6.125	6.125	0.000	67	20783	200.0	213.8	
68 Dichlorobromomethane	83	6.259	6.259	0.000	87	99025	10.0	9.95	
69 2-Chloroethyl vinyl ether	63	6.546	6.546	0.000	87	61249	10.0	9.71	
72 cis-1,3-Dichloropropene	75	6.686	6.686	0.000	82	124663	10.0	10.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.826	0.000	99	644344	50.0	53.3	
74 Toluene	92	6.984	6.984	0.000	93	225589	10.0	10.5	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	93	113831	10.0	10.3	
75 Ethyl methacrylate	69	7.313	7.313	0.000	92	99231	10.0	10.3	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	87	67668	10.0	10.8	
81 Tetrachloroethene	166	7.526	7.526	0.000	84	90196	10.0	10.3	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	94	150274	10.0	10.5	
80 2-Hexanone	43	7.666	7.666	0.000	99	451739	50.0	53.8	
83 Chlorodibromomethane	129	7.836	7.836	0.000	82	61075	10.0	9.05	
84 Ethylene Dibromide	107	7.940	7.940	0.000	89	77759	10.0	10.3	
87 Chlorobenzene	112	8.427	8.427	0.000	85	252464	10.0	10.2	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	38	76751	10.0	10.5	
88 Ethylbenzene	91	8.524	8.524	0.000	97	416101	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	164017	10.0	10.4	
91 o-Xylene	106	9.072	9.072	0.000	97	157120	10.0	10.7	
92 Styrene	104	9.096	9.096	0.000	92	251616	10.0	10.8	
95 Bromoform	173	9.328	9.328	0.000	91	30011	10.0	8.76	
94 Isopropylbenzene	105	9.462	9.462	0.000	96	397555	10.0	10.5	
101 Bromobenzene	156	9.796	9.796	0.000	96	94735	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	77	100574	10.0	10.5	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	69	34072	10.0	10.6	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.882	0.000	37	43743	10.0	9.36	
99 N-Propylbenzene	91	9.888	9.888	0.000	96	488650	10.0	10.4	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	96304	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	95	340509	10.0	10.2	
105 4-Chlorotoluene	126	10.095	10.095	0.000	97	102578	10.0	10.6	
106 tert-Butylbenzene	134	10.387	10.387	0.000	91	79133	10.0	10.4	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	67	355956	10.0	10.7	

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	10.594	10.594	0.000	94	435205	10.0	10.7	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	194458	10.0	10.5	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	95	372709	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	85	196415	10.0	10.3	
115 n-Butylbenzene	91	11.117	11.117	0.000	94	332580	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.154	11.154	0.000	88	185946	10.0	10.3	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	46	14584	10.0	9.89	
119 1,2,4-Trichlorobenzene	180	12.560	12.560	0.000	90	121720	10.0	10.0	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	89	58860	10.0	10.2	
121 Naphthalene	128	12.773	12.773	0.000	97	284879	10.0	10.4	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	94	121943	10.0	11.0	
S 123 Total BTEX	1				0			52.6	
S 124 Xylenes, Total	1				0			21.1	
S 125 1,2-Dichloroethene, Total	1				0			21.2	
S 126 1,3-Dichloropropene, Total	1				0			20.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00058

Amount Added: 5.00

Units: uL

GAS CORP mix_00119

Amount Added: 5.00

Units: uL

S_8260_IS_00123

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00114

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151109-48176.b\\S4483.D

Injection Date: 09-Nov-2015 18:51:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 3

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

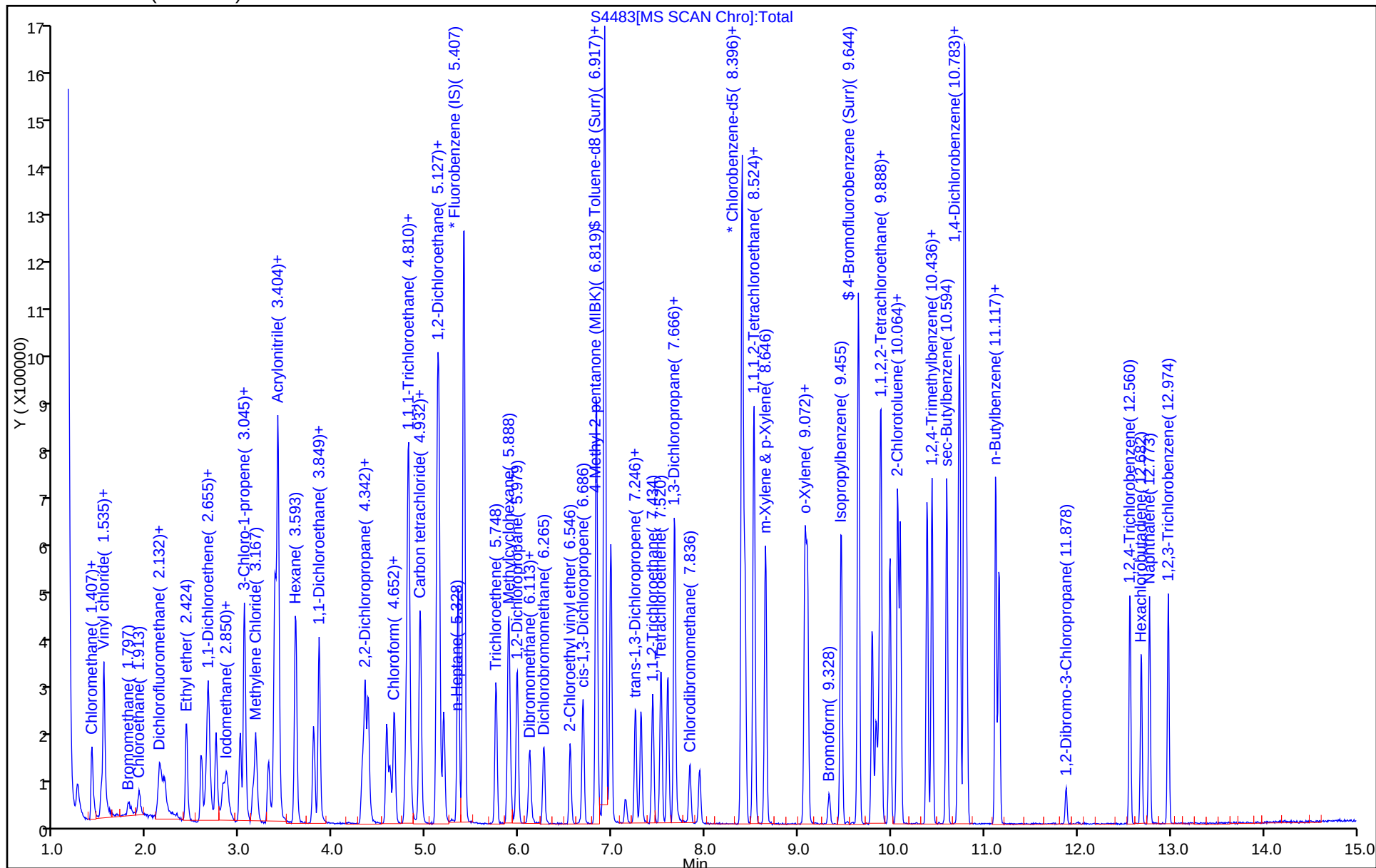
Dil. Factor: 1.0000

ALS Bottle#: 40

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4483.D

Injection Date: 09-Nov-2015 18:51:30

Instrument ID: HP5973S

Lims ID: IC 3

Client ID:

Operator ID: LH

ALS Bottle#:

40

Worklist Smp#:

8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: S-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

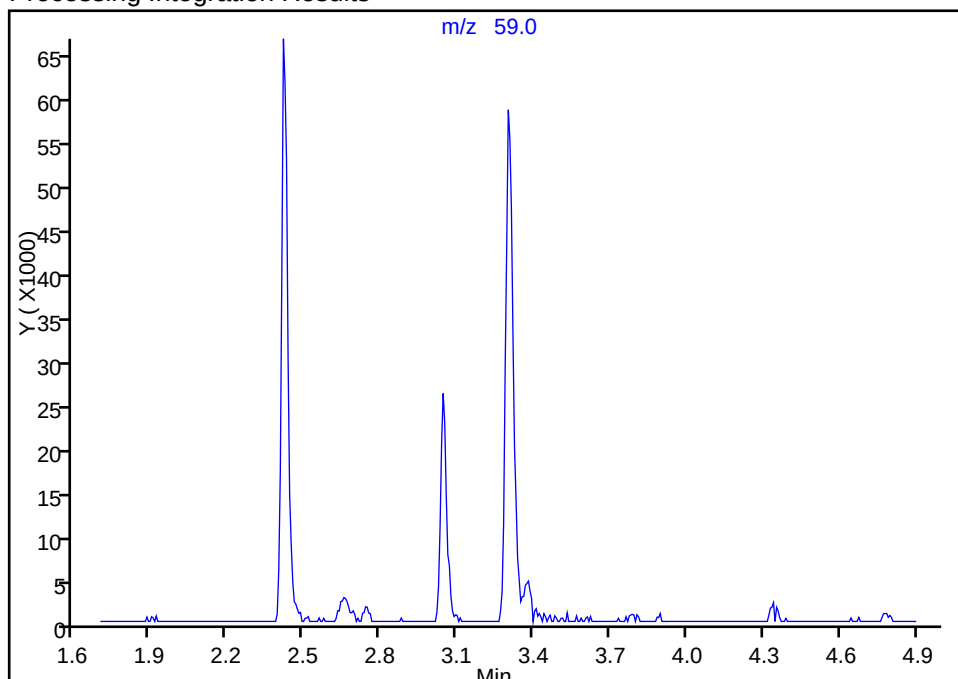
MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

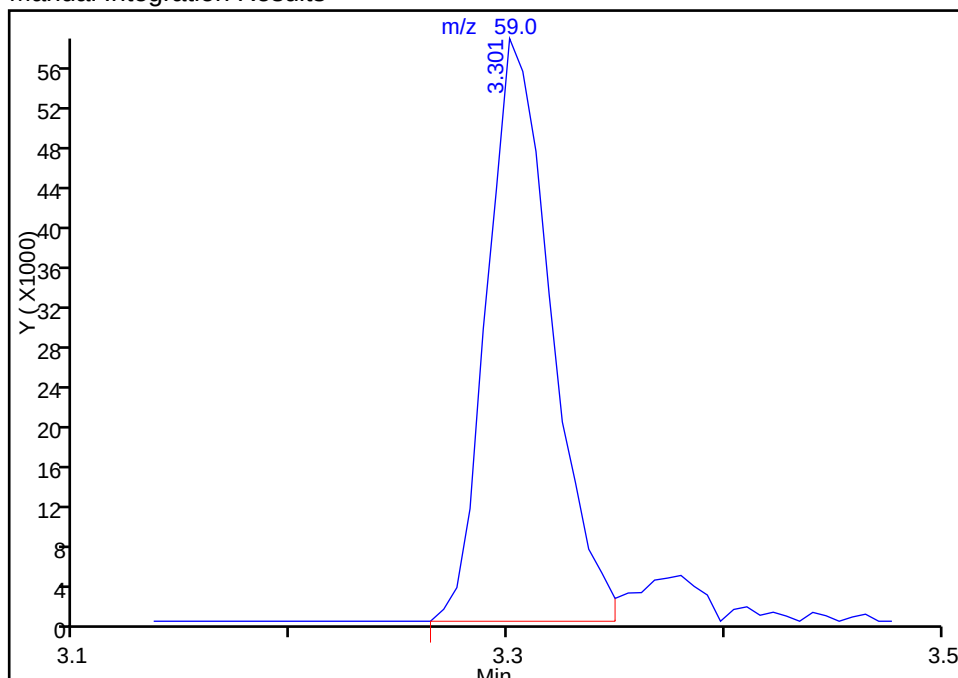
Not Detected

Expected RT: 3.30

Processing Integration Results



Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:45:13

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4484.D
 Lims ID: ICIS 4
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 09-Nov-2015 19:14:30 ALS Bottle#: 41 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis 4
 Misc. Info.: 480-0048176-009
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:36 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:35:20

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	5.401	5.401	0.000	96	209703	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	398331	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	87	370912	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	57	236862	27.2	27.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	170883	27.2	26.2	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	977985	27.2	27.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.650	9.650	0.000	85	272632	27.2	28.0	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	82	256640	25.0	25.6	
12 Chloromethane	50	1.407	1.407	0.000	89	439076	25.0	24.6	
13 Vinyl chloride	62	1.511	1.511	0.000	82	273005	25.0	25.6	
151 Butadiene	54	1.535	1.535	0.000	88	338077	25.0	26.8	
14 Bromomethane	94	1.797	1.797	0.000	90	61366	25.0	22.9	
15 Chloroethane	64	1.913	1.913	0.000	92	124968	25.0	25.4	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	79	254110	25.0	26.1	
17 Trichlorofluoromethane	101	2.150	2.150	0.000	82	249261	25.0	25.2	
18 Ethyl ether	59	2.418	2.418	0.000	97	276653	25.0	24.0	
20 Acrolein	56	2.582	2.582	0.000	94	311177	125.0	124.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	60	213029	25.0	26.3	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	78	193141	25.0	24.2	
23 Acetone	43	2.734	2.734	0.000	98	516970	125.0	118.6	
25 Iodomethane	142	2.814	2.814	0.000	97	277702	25.0	26.3	
26 Carbon disulfide	76	2.856	2.856	0.000	99	556841	25.0	27.4	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	84	450294	25.0	25.9	
27 Methyl acetate	43	3.039	3.039	0.000	97	1345535	125.0	121.0	
30 Methylene Chloride	84	3.167	3.167	0.000	83	222948	25.0	25.7	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	93	297316	250.0	239.0	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	90	608199	25.0	24.9	
34 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	73	212002	25.0	26.6	
33 Acrylonitrile	53	3.404	3.404	0.000	98	1359109	250.0	239.4	
35 Hexane	57	3.593	3.593	0.000	96	514063	25.0	25.5	

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	3.788	3.788	0.000	85	497825	25.0	25.5	
37 Vinyl acetate	43	3.849	3.849	0.000	96	1364538	50.0	51.4	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	85	188026	25.0	25.6	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	74	222413	25.0	24.3	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	92	795223	125.0	125.4	
48 Chlorobromomethane	128	4.579	4.579	0.000	86	105481	25.0	24.8	
49 Tetrahydrofuran	42	4.603	4.603	0.000	93	209550	50.0	51.1	
50 Chloroform	83	4.652	4.652	0.000	83	390932	25.0	24.9	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	89	285055	25.0	27.1	
52 Cyclohexane	56	4.804	4.804	0.000	91	581832	25.0	27.9	
55 Carbon tetrachloride	117	4.926	4.926	0.000	76	271645	25.0	26.4	
54 1,1-Dichloropropene	75	4.932	4.932	0.000	84	313406	25.0	25.0	
53 Isobutyl alcohol	43	5.133	5.133	0.000	63	379433	625.0	616.0	
57 Benzene	78	5.133	5.133	0.000	94	903370	25.0	25.4	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	71	410234	25.0	24.4	
59 n-Heptane	43	5.340	5.340	0.000	96	524083	25.0	26.0	
62 Trichloroethene	95	5.748	5.748	0.000	85	221838	25.0	25.6	
64 Methylcyclohexane	83	5.888	5.888	0.000	96	398252	25.0	27.1	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	89	260208	25.0	25.7	
67 Dibromomethane	93	6.113	6.113	0.000	90	127550	25.0	24.6	
66 1,4-Dioxane	88	6.119	6.119	0.000	59	45191	500.0	466.5	
68 Dichlorobromomethane	83	6.265	6.265	0.000	90	256894	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	88	167088	25.0	26.2	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	82	330308	25.0	27.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	98	1614966	125.0	134.1	
74 Toluene	92	6.984	6.984	0.000	94	539714	25.0	25.2	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	92	304188	25.0	27.5	
75 Ethyl methacrylate	69	7.306	7.306	0.000	92	266401	25.0	27.8	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	160790	25.0	25.8	
81 Tetrachloroethene	166	7.520	7.520	0.000	89	229506	25.0	26.3	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	96	361533	25.0	25.4	
80 2-Hexanone	43	7.666	7.666	0.000	97	1156809	125.0	138.2	
83 Chlorodibromomethane	129	7.836	7.836	0.000	85	174976	25.0	24.7	
84 Ethylene Dibromide	107	7.940	7.940	0.000	97	197015	25.0	26.2	
87 Chlorobenzene	112	8.427	8.427	0.000	90	631907	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	41	197317	25.0	27.0	
88 Ethylbenzene	91	8.524	8.524	0.000	98	1038542	25.0	26.2	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	409901	25.0	26.1	
91 o-Xylene	106	9.072	9.072	0.000	97	392589	25.0	26.9	
92 Styrene	104	9.096	9.096	0.000	93	653716	25.0	28.2	
95 Bromoform	173	9.334	9.334	0.000	92	85905	25.0	23.7	
94 Isopropylbenzene	105	9.462	9.462	0.000	97	1019224	25.0	26.5	
101 Bromobenzene	156	9.796	9.796	0.000	93	227490	25.0	24.5	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	80	235675	25.0	24.2	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	72	82426	25.0	25.3	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.882	0.000	37	118640	25.0	23.8	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1222181	25.0	25.6	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	246509	25.0	25.9	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	95	870411	25.0	25.6	
105 4-Chlorotoluene	126	10.095	10.095	0.000	96	264794	25.0	26.9	
106 tert-Butylbenzene	134	10.381	10.381	0.000	93	202757	25.0	26.2	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	900303	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	10.594	10.594	0.000	96	1105652	25.0	26.6	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	92	463449	25.0	24.7	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	97	967919	25.0	27.4	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	89	481744	25.0	24.8	
115 n-Butylbenzene	91	11.117	11.117	0.000	98	851597	25.0	26.5	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	89	452917	25.0	24.8	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	63	39242	25.0	26.2	
119 1,2,4-Trichlorobenzene	180	12.560	12.560	0.000	90	309809	25.0	25.0	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	93	145573	25.0	24.7	
121 Naphthalene	128	12.773	12.773	0.000	98	769641	25.0	27.5	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	92	296491	25.0	26.2	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00119	Amount Added: 12.50	Units: uL	
S_8260_IS_00123	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00114	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151109-48176.b\\S4484.D

Injection Date: 09-Nov-2015 19:14:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: ICIS 4

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

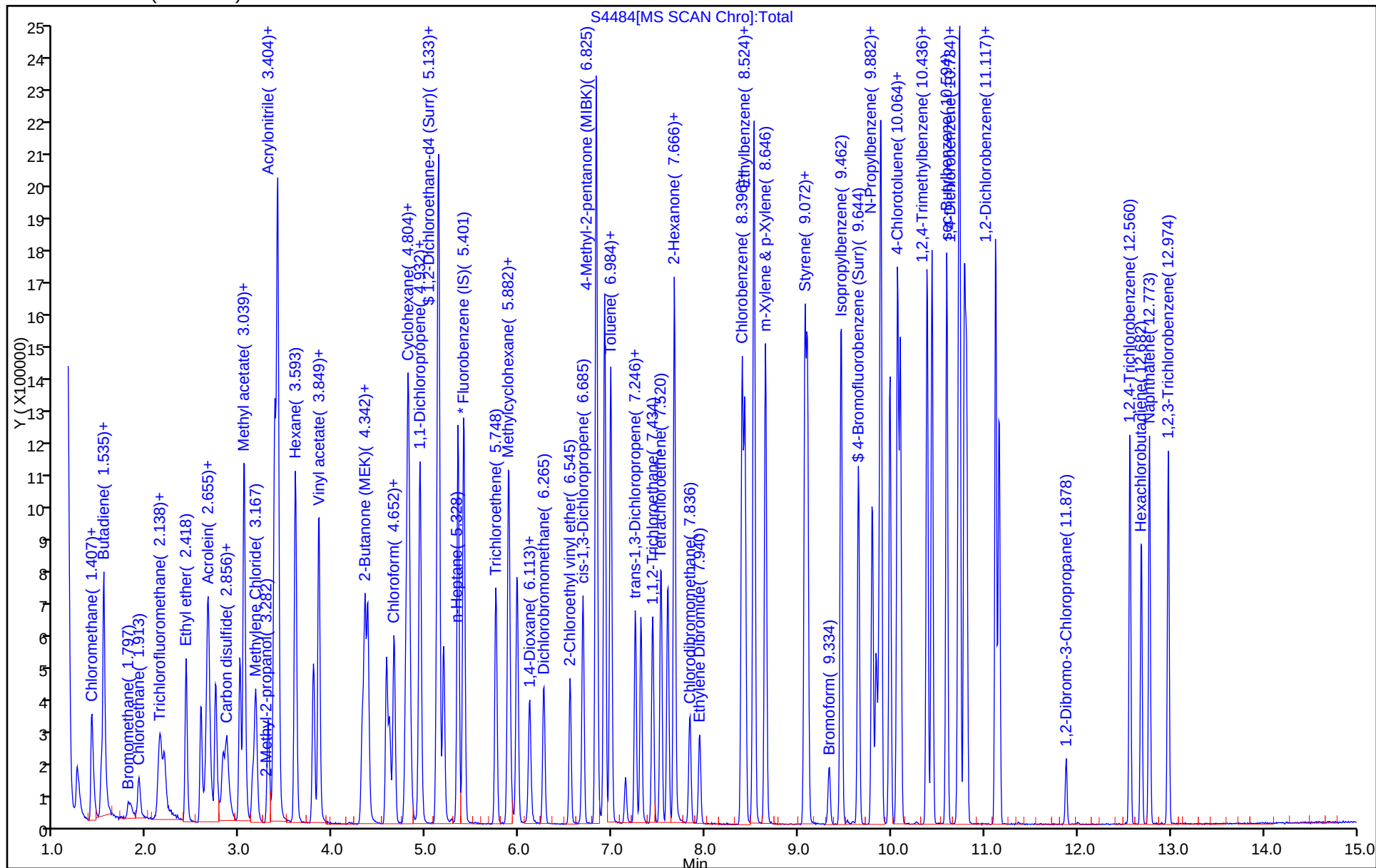
Dil. Factor: 1.0000

ALS Bottle#: 41

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4485.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Nov-2015 19:37:30 ALS Bottle#: 42 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 5
 Misc. Info.: 480-0048176-010
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:39 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:46:24

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	5.401	5.401	0.000	92	209502	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.396	-0.006	89	407401	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	60	372948	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	43	247422	27.2	28.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	173978	27.2	26.7	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	986086	27.2	27.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.650	-0.006	81	277863	27.2	27.9	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	87	497433	50.0	49.7	
12 Chloromethane	50	1.407	1.407	0.000	89	892371	50.0	50.1	
13 Vinyl chloride	62	1.511	1.511	0.000	82	544767	50.0	51.2	
151 Butadiene	54	1.535	1.535	0.000	86	651986	50.0	51.7	
14 Bromomethane	94	1.803	1.797	0.006	89	134616	50.0	50.3	
15 Chloroethane	64	1.913	1.913	0.000	90	253688	50.0	51.1	
16 Dichlorofluoromethane	67	2.138	2.132	0.006	78	544057	50.0	55.9	
17 Trichlorofluoromethane	101	2.150	2.150	0.000	83	555670	50.0	56.2	
18 Ethyl ether	59	2.418	2.418	0.000	97	546629	50.0	47.4	
20 Acrolein	56	2.582	2.582	0.000	96	628881	250.0	251.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.655	2.649	0.006	51	420436	50.0	51.9	
22 1,1-Dichloroethene	96	2.661	2.655	0.006	78	402413	50.0	50.5	
23 Acetone	43	2.734	2.734	0.000	98	1069822	250.0	245.7	
25 Iodomethane	142	2.820	2.814	0.006	98	539367	50.0	50.9	
26 Carbon disulfide	76	2.856	2.856	0.000	98	1184920	50.0	58.4	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	81	907038	50.0	52.2	
27 Methyl acetate	43	3.045	3.039	0.006	97	2712501	250.0	244.2	
30 Methylene Chloride	84	3.167	3.167	0.000	80	435502	50.0	51.0	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	96	665963	500.0	535.8	M
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	91	1230820	50.0	50.5	
34 trans-1,2-Dichloroethene	96	3.380	3.374	0.006	82	419183	50.0	52.6	
33 Acrylonitrile	53	3.404	3.404	0.000	97	2770598	500.0	488.4	
35 Hexane	57	3.593	3.593	0.000	95	1006362	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	976086	50.0	50.0	
37 Vinyl acetate	43	3.848	3.849	-0.001	96	2912982	100.0	109.8	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	87	368893	50.0	50.3	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	443391	50.0	48.5	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	92	1658344	250.0	261.7	
48 Chlorobromomethane	128	4.573	4.579	-0.006	84	216689	50.0	51.0	
49 Tetrahydrofuran	42	4.603	4.603	0.000	93	419793	100.0	102.4	
50 Chloroform	83	4.652	4.652	0.000	83	772709	50.0	49.3	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	88	563528	50.0	53.7	
52 Cyclohexane	56	4.804	4.804	0.000	92	1111654	50.0	53.3	
55 Carbon tetrachloride	117	4.926	4.926	0.000	77	559773	50.0	54.5	
54 1,1-Dichloropropene	75	4.938	4.932	0.006	86	622800	50.0	49.7	
53 Isobutyl alcohol	43	5.127	5.133	-0.006	73	859517	1250.0	1396.7	
57 Benzene	78	5.133	5.133	0.000	93	1738973	50.0	49.0	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	71	807927	50.0	48.0	
59 n-Heptane	43	5.340	5.340	0.000	96	1016659	50.0	50.6	
62 Trichloroethene	95	5.748	5.748	0.000	91	442875	50.0	51.1	
64 Methylcyclohexane	83	5.888	5.888	0.000	96	780517	50.0	53.2	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	91	528385	50.0	52.2	
67 Dibromomethane	93	6.107	6.113	-0.006	89	256976	50.0	49.6	
66 1,4-Dioxane	88	6.119	6.119	0.000	59	103181	1000.0	1041.3	
68 Dichlorobromomethane	83	6.259	6.265	-0.006	91	549936	50.0	54.7	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	87	358256	50.0	56.2	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	83	704600	50.0	58.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	98	3307527	250.0	268.6	
74 Toluene	92	6.984	6.984	0.000	94	1068648	50.0	48.8	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	93	646595	50.0	57.1	
75 Ethyl methacrylate	69	7.306	7.306	0.000	94	575682	50.0	58.7	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	314101	50.0	49.4	
81 Tetrachloroethene	166	7.519	7.520	-0.001	85	451650	50.0	50.5	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	96	724137	50.0	49.7	
80 2-Hexanone	43	7.666	7.666	0.000	99	2402550	250.0	280.6	
83 Chlorodibromomethane	129	7.830	7.836	-0.006	87	379462	50.0	51.7	
84 Ethylene Dibromide	107	7.940	7.940	0.000	97	400868	50.0	52.1	
87 Chlorobenzene	112	8.427	8.427	0.000	90	1231189	50.0	48.9	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	41	401729	50.0	53.7	
88 Ethylbenzene	91	8.524	8.524	0.000	98	2036081	50.0	50.2	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	835212	50.0	52.0	
91 o-Xylene	106	9.072	9.072	0.000	97	803980	50.0	53.9	
92 Styrene	104	9.096	9.096	0.000	94	1328698	50.0	56.0	
95 Bromoform	173	9.334	9.334	0.000	95	199037	50.0	52.8	
94 Isopropylbenzene	105	9.455	9.462	-0.007	98	2037567	50.0	52.7	
101 Bromobenzene	156	9.796	9.796	0.000	96	468331	50.0	50.2	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	81	497611	50.0	50.7	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	70	166299	50.0	50.7	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.882	0.006	34	264666	50.0	51.8	
99 N-Propylbenzene	91	9.888	9.888	0.000	96	2377706	50.0	49.6	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	484054	50.0	50.7	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	95	1765736	50.0	51.6	
105 4-Chlorotoluene	126	10.095	10.095	0.000	97	501529	50.0	50.7	
106 tert-Butylbenzene	134	10.381	10.381	0.000	93	404284	50.0	51.9	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	1790358	50.0	52.4	

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	10.594	10.594	0.000	95	2176704	50.0	52.1	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	919671	50.0	48.7	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	96	1901773	50.0	53.6	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	91	950586	50.0	48.7	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	1682773	50.0	52.0	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	93	892326	50.0	48.5	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	67	91621	50.0	60.7	
119 1,2,4-Trichlorobenzene	180	12.566	12.560	0.006	92	654179	50.0	52.5	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	95	291290	50.0	49.2	
121 Naphthalene	128	12.773	12.773	0.000	98	1656789	50.0	58.9	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	92	607960	50.0	53.4	
S 123 Total BTEX	1				0			253.9	
S 124 Xylenes, Total	1				0			105.9	
S 125 1,2-Dichloroethene, Total	1				0			101.1	
S 126 1,3-Dichloropropene, Total	1				0			115.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00058

Amount Added: 25.00

Units: uL

GAS CORP mix_00119

Amount Added: 25.00

Units: uL

S_8260_IS_00123

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00114

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4485.D

Injection Date: 09-Nov-2015 19:37:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

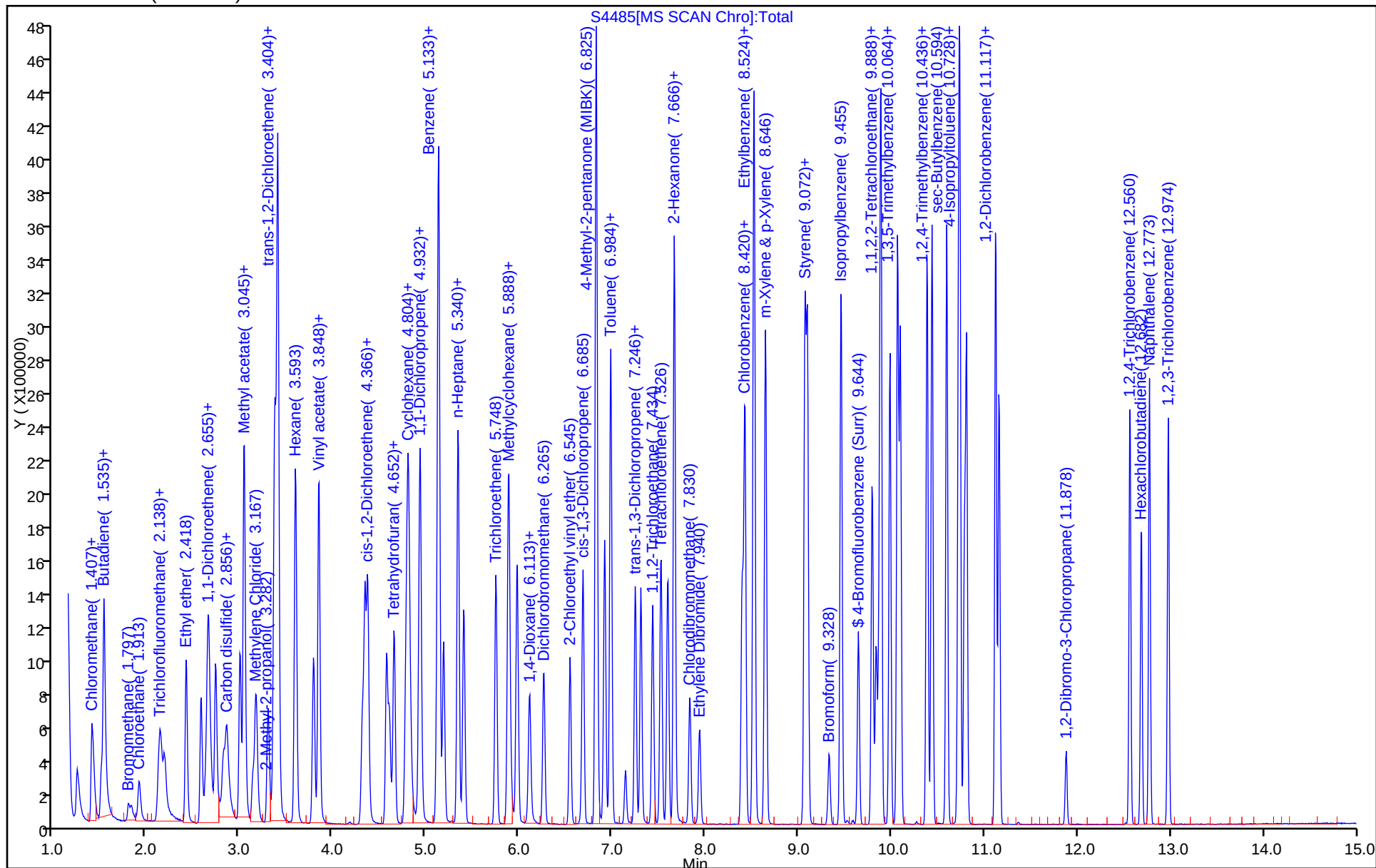
Dil. Factor: 1.0000

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\20151109-48176.b\S4485.D

Injection Date: 09-Nov-2015 19:37:30

Instrument ID: HP5973S

Lims ID: IC 5

Client ID:

Operator ID: LH

ALS Bottle#:

42

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

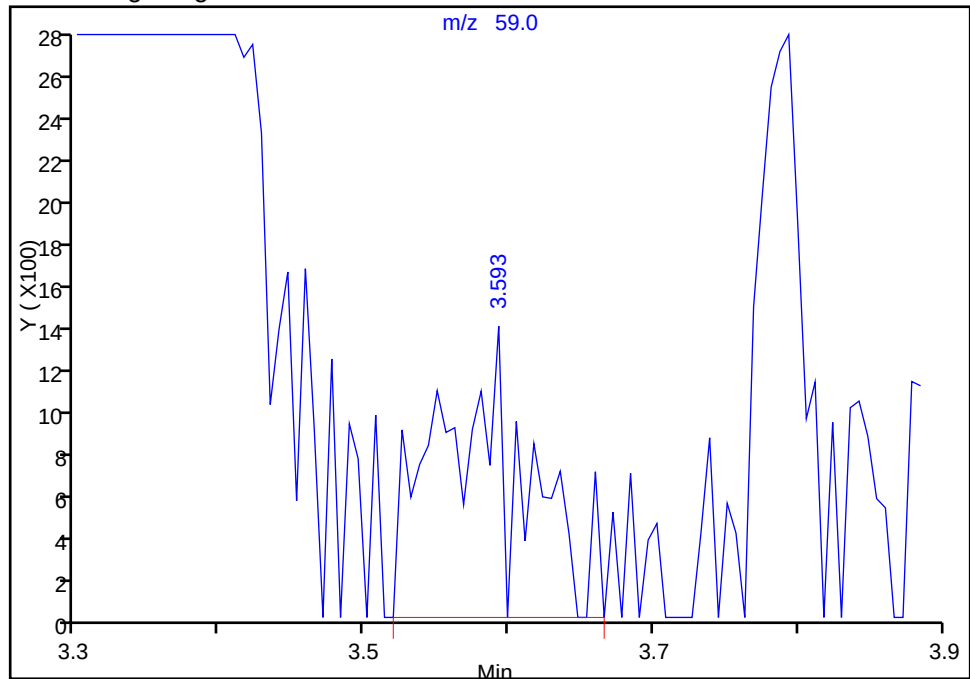
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

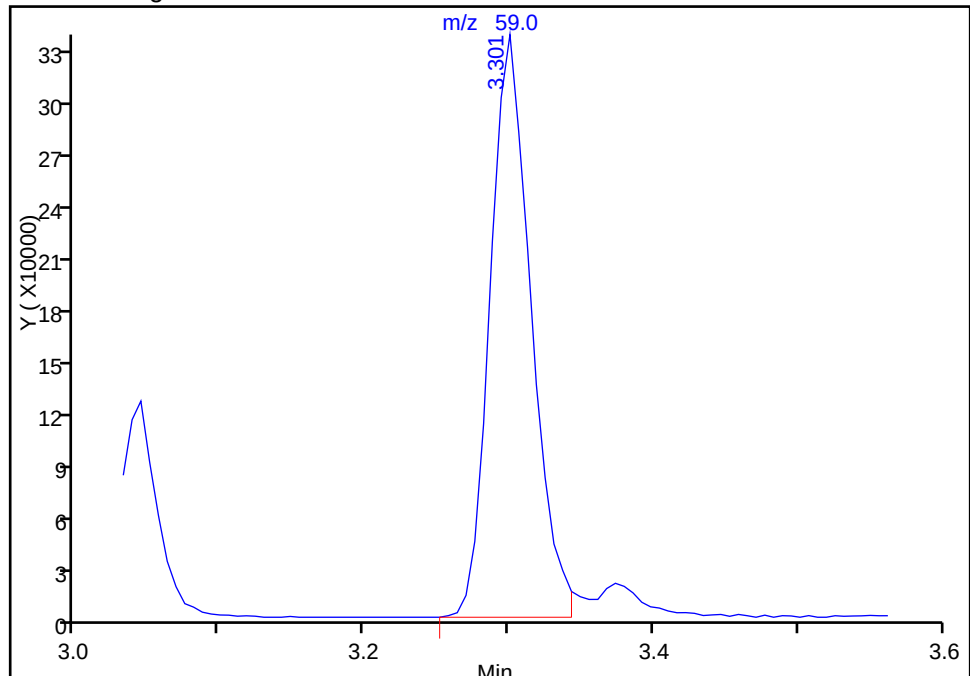
RT: 3.59
Area: 5552
Amount: 6.498677
Amount Units: ug/L

Processing Integration Results



RT: 3.30
Area: 665963
Amount: 535.8465
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:47:17
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4486.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Nov-2015 20:00:30 ALS Bottle#: 43 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 6
 Misc. Info.: 480-0048176-011
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:42 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:48:31

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	5.401	5.401	0.000	92	207953	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	90	401990	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	63	375824	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	31	239106	27.2	27.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	175284	27.2	27.1	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	986702	27.2	27.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.650	-0.006	82	279982	27.2	28.5	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	87	945285	100.0	95.2	
12 Chloromethane	50	1.414	1.407	0.007	89	1713559	100.0	96.8	
13 Vinyl chloride	62	1.511	1.511	0.000	81	1038813	100.0	98.3	
151 Butadiene	54	1.535	1.535	0.000	88	1231518	100.0	98.3	
14 Bromomethane	94	1.828	1.797	0.031	91	299185	100.0	112.6	
15 Chloroethane	64	1.913	1.913	0.000	93	486753	100.0	98.4	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	80	1062476	100.0	110.0	
17 Trichlorofluoromethane	101	2.144	2.150	-0.006	76	1075697	100.0	109.6	
18 Ethyl ether	59	2.418	2.418	0.000	98	1089948	100.0	95.3	
20 Acrolein	56	2.576	2.582	-0.006	99	1269484	500.0	511.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	52	759340	100.0	94.4	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	77	767226	100.0	97.0	
23 Acetone	43	2.735	2.734	0.001	98	2091106	500.0	483.8	
25 Iodomethane	142	2.814	2.814	0.000	98	1032842	100.0	97.9	
26 Carbon disulfide	76	2.856	2.856	0.000	99	2330608	100.0	115.8	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	83	1834986	100.0	106.4	
27 Methyl acetate	43	3.039	3.039	0.000	97	5242341	500.0	475.5	
30 Methylene Chloride	84	3.167	3.167	0.000	83	822585	100.0	97.8	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	1	1395633	1000.0	1131.3	M
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	91	2452734	100.0	101.4	
34 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	70	776202	100.0	98.1	
33 Acrylonitrile	53	3.404	3.404	0.000	97	5323883	1000.0	945.5	
35 Hexane	57	3.593	3.593	0.000	94	1902159	100.0	95.2	

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	3.788	3.788	0.000	85	1925295	100.0	99.3	
37 Vinyl acetate	43	3.843	3.849	-0.006	97	5721488	200.0	217.2	
44 2,2-Dichloropropane	77	4.311	4.317	-0.006	89	722095	100.0	99.2	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	76	855752	100.0	94.3	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	92	3271127	500.0	520.1	
48 Chlorobromomethane	128	4.573	4.579	-0.006	84	429250	100.0	101.8	
49 Tetrahydrofuran	42	4.604	4.603	0.001	93	854474	200.0	209.9	
50 Chloroform	83	4.652	4.652	0.000	83	1483686	100.0	95.3	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	89	1141702	100.0	109.6	
52 Cyclohexane	56	4.804	4.804	0.000	92	2154380	100.0	104.1	
55 Carbon tetrachloride	117	4.926	4.926	0.000	80	1119488	100.0	109.8	
54 1,1-Dichloropropene	75	4.932	4.932	0.000	85	1186068	100.0	95.3	
53 Isobutyl alcohol	43	5.127	5.133	-0.006	76	1719994	2500.0	2815.8	
57 Benzene	78	5.133	5.133	0.000	93	3286626	100.0	93.2	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	76	1594624	100.0	95.5	
59 n-Heptane	43	5.340	5.340	0.000	97	1958732	100.0	98.1	
62 Trichloroethene	95	5.748	5.748	0.000	90	834856	100.0	97.1	
64 Methylcyclohexane	83	5.888	5.888	0.000	96	1487061	100.0	102.1	
65 1,2-Dichloropropane	63	5.973	5.979	-0.006	91	1040919	100.0	103.7	
67 Dibromomethane	93	6.107	6.113	-0.006	90	503688	100.0	97.9	
66 1,4-Dioxane	88	6.119	6.119	0.000	63	206740	2000.0	2114.5	M
68 Dichlorobromomethane	83	6.266	6.265	0.001	91	1117216	100.0	111.9	
69 2-Chloroethyl vinyl ether	63	6.546	6.545	0.001	89	740082	100.0	116.9	
72 cis-1,3-Dichloropropene	75	6.686	6.685	0.001	84	1415842	100.0	118.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	97	6322618	500.0	520.4	
74 Toluene	92	6.984	6.984	0.000	96	2024702	100.0	93.7	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	93	1335348	100.0	119.6	
75 Ethyl methacrylate	69	7.307	7.306	0.001	89	1182600	100.0	122.1	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	625805	100.0	99.7	
81 Tetrachloroethene	166	7.526	7.520	0.006	88	847985	100.0	96.1	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	95	1403606	100.0	97.7	
80 2-Hexanone	43	7.666	7.666	0.000	98	4683147	500.0	554.4	
83 Chlorodibromomethane	129	7.836	7.836	0.000	87	786353	100.0	107.8	
84 Ethylene Dibromide	107	7.940	7.940	0.000	98	786090	100.0	103.6	
87 Chlorobenzene	112	8.427	8.427	0.000	90	2377560	100.0	95.8	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	43	805198	100.0	109.1	
88 Ethylbenzene	91	8.524	8.524	0.000	98	3775798	100.0	94.4	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	1592565	100.0	100.5	
91 o-Xylene	106	9.072	9.072	0.000	97	1543937	100.0	104.9	
92 Styrene	104	9.096	9.096	0.000	93	2546412	100.0	108.8	
95 Bromoform	173	9.328	9.334	-0.006	94	442386	100.0	118.0	
94 Isopropylbenzene	105	9.456	9.462	-0.006	98	3839454	100.0	98.5	
101 Bromobenzene	156	9.797	9.796	0.001	96	915389	100.0	97.3	
97 1,1,2,2-Tetrachloroethane	83	9.839	9.833	0.006	81	982852	100.0	99.4	
100 1,2,3-Trichloropropane	110	9.870	9.869	0.001	74	314809	100.0	95.2	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.882	0.006	35	540910	100.0	104.4	
99 N-Propylbenzene	91	9.888	9.888	0.000	96	4442006	100.0	91.9	
103 2-Chlorotoluene	126	9.985	9.985	0.000	95	932276	100.0	96.8	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	96	3323753	100.0	96.3	
105 4-Chlorotoluene	126	10.095	10.095	0.000	97	968609	100.0	97.2	
106 tert-Butylbenzene	134	10.381	10.381	0.000	94	775930	100.0	98.9	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	3405464	100.0	98.9	

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	10.594	10.594	0.000	96	4129669	100.0	98.2	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	95	1785919	100.0	93.8	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	96	3575464	100.0	100.0	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	89	1815786	100.0	92.3	
115 n-Butylbenzene	91	11.118	11.117	0.001	97	3219689	100.0	98.8	
116 1,2-Dichlorobenzene	146	11.154	11.160	-0.006	92	1733807	100.0	93.5	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.878	0.001	75	203571	100.0	133.9	
119 1,2,4-Trichlorobenzene	180	12.560	12.560	0.000	92	1302271	100.0	103.7	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	96	577439	100.0	96.8	
121 Naphthalene	128	12.773	12.773	0.000	98	3279098	100.0	115.6	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	93	1230981	100.0	107.3	
S 123 Total BTEX	1				0			486.7	
S 124 Xylenes, Total	1				0			205.4	
S 125 1,2-Dichloroethene, Total	1				0			192.4	
S 126 1,3-Dichloropropene, Total	1				0			238.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00058

Amount Added: 50.00

Units: uL

GAS CORP mix_00119

Amount Added: 50.00

Units: uL

S_8260_IS_00123

Amount Added: 1.00

Units: uL

Run Reagent

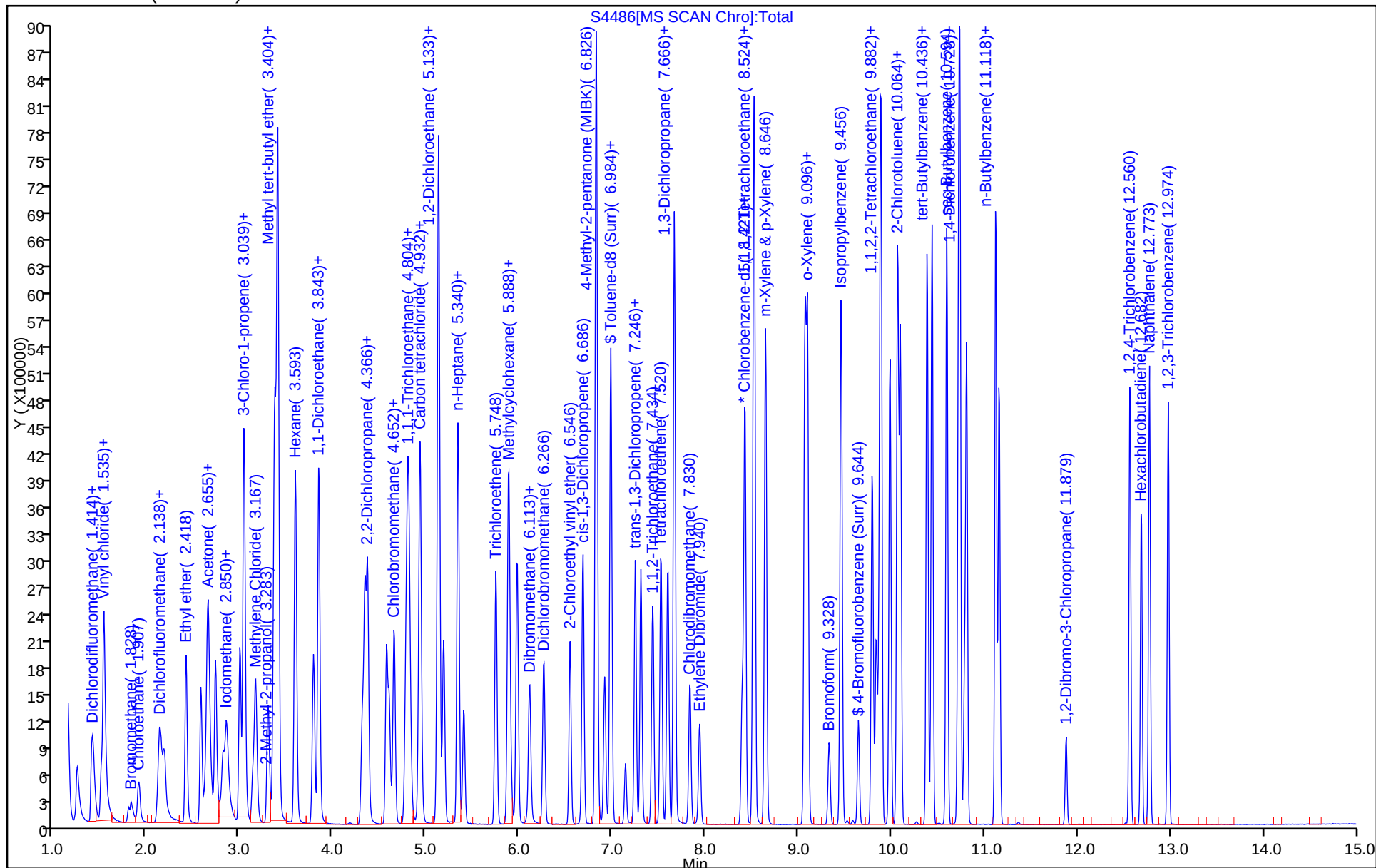
S_8260_Surr_00114

Amount Added: 1.00

Units: uL

Run Reagent

Column: ZB-624 (0.25 mm)



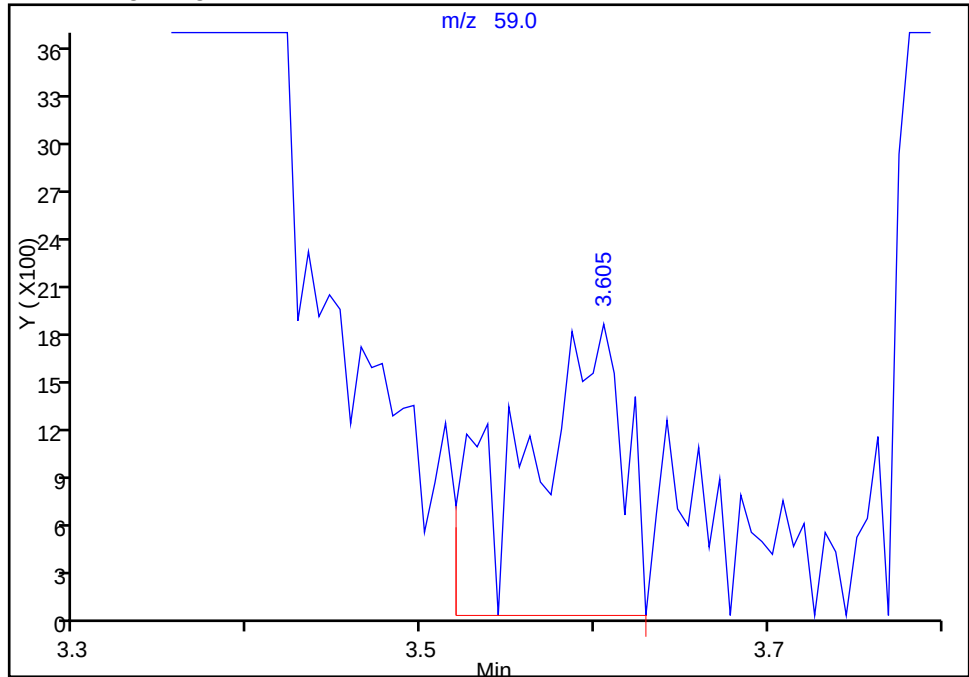
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4486.D
Injection Date: 09-Nov-2015 20:00:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 43 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

31 2-Methyl-2-propanol, CAS: 75-65-0

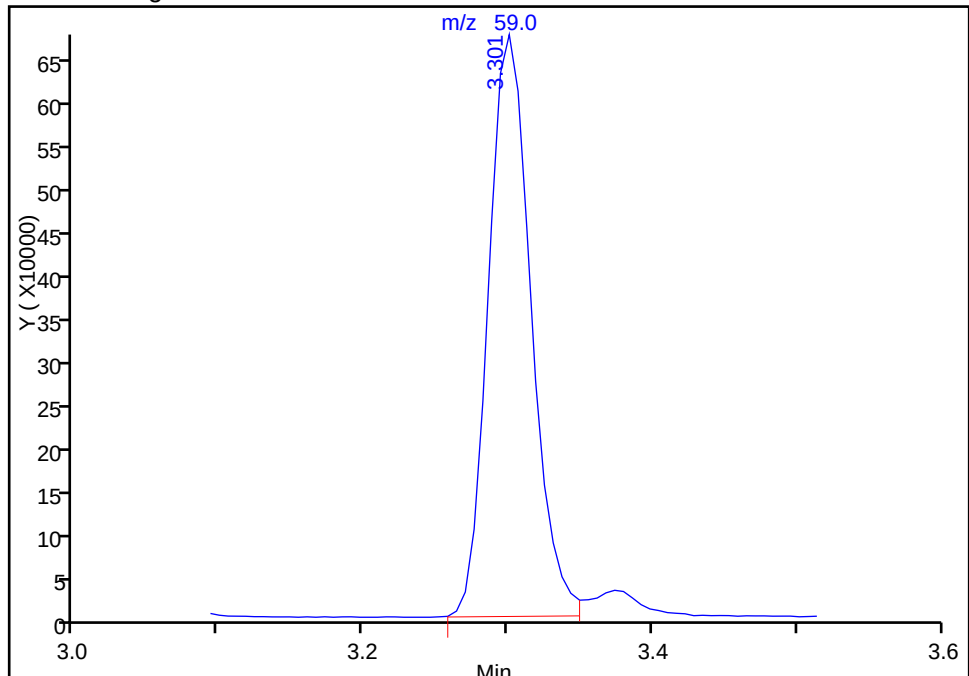
RT: 3.61
Area: 7321
Amount: 7.071347
Amount Units: ug/L

Processing Integration Results



RT: 3.30
Area: 1395633
Amount: 1131.3175
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:48:31
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

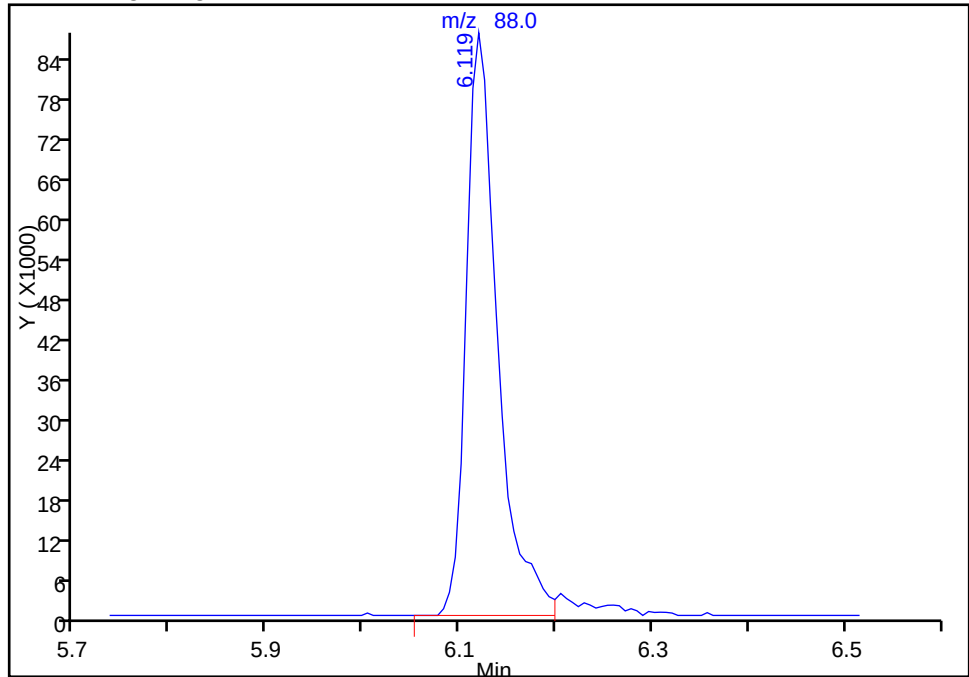
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4486.D
Injection Date: 09-Nov-2015 20:00:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 43 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

66 1,4-Dioxane, CAS: 123-91-1

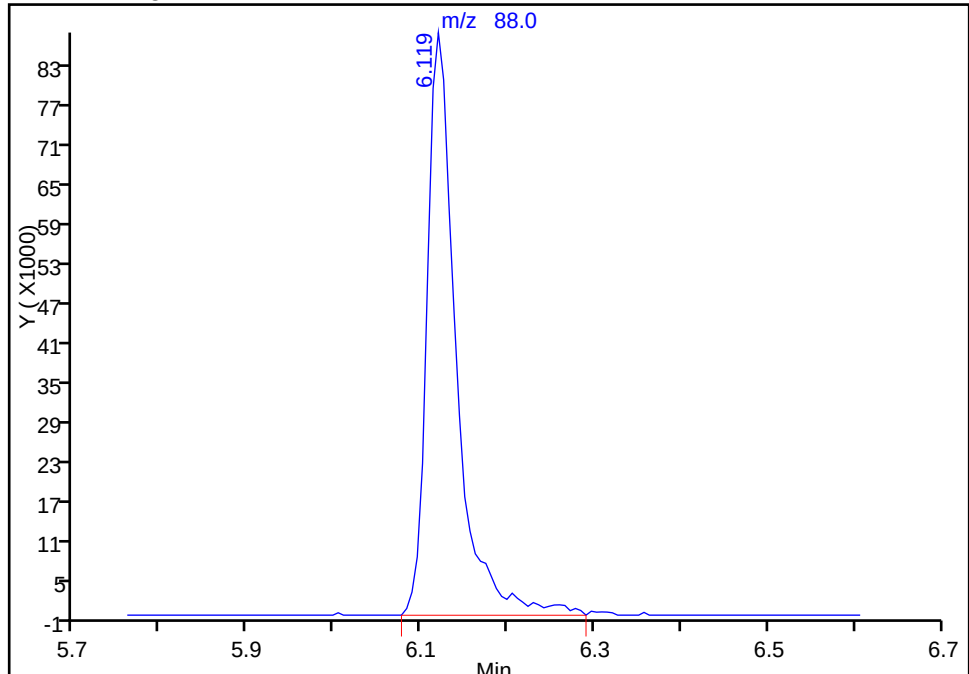
RT: 6.12
Area: 198551
Amount: 2045.0335
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 206740
Amount: 2114.5161
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:48:31
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 21:31 Calibration End Date: 11/09/2015 23:46 Calibration ID: 25561

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-273987/15	S4490.D
Level 2	IC 480-273987/16	S4491.D
Level 3	IC 480-273987/17	S4492.D
Level 4	IC 480-273987/18	S4493.D
Level 5	IC 480-273987/19	S4494.D
Level 6	IC 480-273987/20	S4495.D
Level 7	IC 480-273987/21	S4496.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															
Chlorodifluoromethane	1.3784 1.3790	1.3071 1.6513	1.3226	1.0376	1.6109	Ave		1.3838				14.8		20.0			
Ethanol	0.0109 0.0191	0.0205 0.0173	0.0168	0.0191	0.0195	Lin1	-0.047	0.0182							0.9960		0.9900
Isopropyl alcohol	0.1259 0.0951	0.0947 0.0906	0.0829	0.0970	0.0934	Ave		0.0971				13.9		20.0			
Acetonitrile	0.2107 0.1089	0.1565 0.1029	0.1204	0.1151	0.1107	Lin1	0.5628	0.1051							0.9990		0.9900
Isopropyl ether	4.3676 4.8775	4.5464 5.0626	4.3822	4.6343	5.1120	Ave		4.7118				6.5		20.0			
Chloroprene	1.7308 2.1026	1.7928 2.4254	1.9299	1.8117	2.3678	Ave		2.0230				14.0		20.0			
1,1-Dimethoxyethane	0.1721 0.1709	0.1331 0.1766	0.1461	0.1553	0.1691	Ave		0.1605				10.1		20.0			
Tert-butyl ethyl ether	4.0655 4.2375	4.0795 4.3671	3.9410	3.9915	4.3170	Ave		4.1427				4.0		20.0			
Ethyl acetate	0.9896 0.9574	0.9147 0.9929	0.8714	0.9489	0.9742	Ave		0.9499				4.6		20.0			
Propionitrile	0.2548 0.2377	0.2232 0.2328	0.2249	0.2411	0.2459	Ave		0.2372				4.8		20.0			
Methacrylonitrile	0.9213 0.9397	0.8690 0.8541	0.9286	0.9716	0.9961	Ave		0.9258				5.5		20.0			
Isooctane	4.1299 4.6922	3.7622 5.3145	4.3953	3.9390	5.3910	Ave		4.5177				14.3		20.0			
t-Amyl alcohol	0.0979 0.1100	0.0970 0.1099	0.0904	0.1038	0.1061	Ave		0.1022				7.2		15.0			
Tert-amyl methyl ether	3.1227 3.0793	2.6605 3.1951	2.8257	2.9354	3.1376	Ave		2.9937				6.5		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.: 480-90492-1 Analy Batch No.: 273987
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2015 21:31 Calibration End Date: 11/09/2015 23:46 Calibration ID: 25561

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	3.1587 3.0050	2.9575 3.1952	2.8949	2.9695	3.2722	Ave		3.0647				4.7		20.0			
n-Butanol	0.0074 0.0411	0.0196 0.0412	0.0266	0.0292	0.0365	Ave		0.0288				42.8	*	20.0			
Ethyl acrylate	1.4624 1.8746	1.3971 1.9807	1.4473	1.6861	1.8320	Ave		1.6686				14.1		20.0			
Methyl methacrylate	1.0042 1.3276	0.9581 1.3290	1.0491	1.2239	1.3305	Ave		1.1746				14.1		20.0			
2-Nitropropane	0.1482 0.1630	0.1193 0.1979	0.1155	0.1191	0.1382	Ave		0.1430				20.9	*	20.0			
Epichlorohydrin	0.0854 0.1434	0.1094 0.1436	0.1112	0.1297	0.1418	Lin1	-0.403	0.1429							0.9990		0.9900
2-Methylthiophene	1.5976 1.8549	1.6199 1.8374	1.7354	1.7532	1.8637	Ave		1.7517				6.2		20.0			
3-Methylthiophene	1.2860 2.1400	1.6934 2.1588	1.6967	1.7361	1.8159	Ave		1.7895				16.7		20.0			
n-Butyl acetate	1.2675 1.4496	1.0591 1.5531	1.0380	1.2265	1.4081	Ave		1.2860			0.1000	15.2		20.0			
1-Chlorohexane	1.9464 0.6857	1.1903 0.7963	0.7903	0.6860	0.8021	Lin1	0.4900	0.7494							0.9940		0.9900
3-Chlorobenzotrifluoride	0.6966 0.7597	0.7604 0.8398	0.7561	0.7388	0.8487	Ave		0.7714				7.1		20.0			
4-Chlorobenzotrifluoride	0.7887 0.7194	0.6788 0.8113	0.6575	0.6989	0.7881	Ave		0.7347				8.3		20.0			
2-Chlorobenzotrifluoride	0.8015 0.7684	0.7087 0.8515	0.7148	0.7316	0.8319	Ave		0.7726				7.4		20.0			
Cyclohexanone	0.0200 0.0270	0.0279 0.0284	0.0232	0.0216	0.0264	Ave		0.0249				13.3		20.0			
3-Chlorotoluene	0.6202 0.6541	0.5960 0.6826	0.6204	0.6495	0.6910	Ave		0.6448				5.4		20.0			
Pentachloroethane	++++ 0.2801	0.1284 ++++	0.1978	0.2254	0.2626	Lin1	-0.204	0.2743							0.9960		0.9900
Dicyclopentadiene	3.4089 2.8145	2.8873 3.0416	2.5412	2.6114	3.0667	Ave		2.9102				10.2		20.0			
1,2,3-Trimethylbenzene	2.1269 2.5213	2.1265 2.5181	2.2955	2.4461	2.6780	Ave		2.3875				8.8		20.0			
Benzyl chloride	++++ 0.1789	0.0523 0.2094	0.1149	0.1079	0.1466	Ave		0.1350				41.3	*	20.0			
1,3,5-Trichlorobenzene	1.0179 0.9142	0.7131 0.9525	0.8706	0.8889	0.9726	Ave		0.9042				10.9		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
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 21:31 Calibration End Date: 11/09/2015 23:46 Calibration ID: 25561

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	0.8285 1.3674	0.6122 1.4207	0.7709	0.9126	1.2443	Ave		1.0224				31.1	*	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.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 21:31 Calibration End Date: 11/09/2015 23:46 Calibration ID: 25561

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-273987/15	S4490.D
Level 2	IC 480-273987/16	S4491.D
Level 3	IC 480-273987/17	S4492.D
Level 4	IC 480-273987/18	S4493.D
Level 5	IC 480-273987/19	S4494.D
Level 6	IC 480-273987/20	S4495.D
Level 7	IC 480-273987/21	S4496.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	5433 576487	10206 1397540	53610	89084	331171	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Lin1	1712 318993	6403 584539	27257	65592	159961	20.0 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	4962 397707	7396 766680	33601	83244	191971	5.00 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Lin1	8305 455125	12220 870915	48820	98830	227485	5.00 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	17215 2039055	35500 4284509	177628	397889	1050936	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	6822 878998	13999 2052599	78225	155551	486788	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	3391 357238	5197 747469	29606	66651	173802	2.50 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	16024 1771475	31854 3695877	159745	342697	887513	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	7801 800483	14285 1680605	70643	162939	400580	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	10044 993532	17427 1970409	91178	207006	505575	5.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	36312 3928455	67855 7228426	376395	834165	2047908	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	16278 1961569	29377 4497677	178159	338190	1108294	0.500 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	3860 459841	7578 929696	36658	89087	218215	5.00 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	12308 1287281	20774 2704076	114537	252021	645044	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	12450 1256232	23093 2704086	117340	254950	672720	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.: 480-90492-1 Analy Batch No.: 273987

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/09/2015 21:31 Calibration End Date: 11/09/2015 23:46 Calibration ID: 25561

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	730 429868	3831 870978	26911	62637	187707	12.5 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	5764 783679	10909 1676303	58664	144765	376639	0.500 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	7916 1109966	14963 2249415	85050	210163	547053	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCB	Ave	1959 232548	3152 575265	15785	33528	97416	1.00 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Lin1	3365 599482	8545 1215531	45054	111372	291439	5.00 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCB	Ave	10562 1323308	21402 2670528	118536	246738	656864	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCB	Ave	8502 1526674	22374 3137582	115889	244333	640020	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	FB	Ave	4996 605986	8270 1314361	42075	105306	289477	0.500 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBZ	Lin1	14615 557444	18298 1285230	63004	113964	319384	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCB	Ave	4605 541978	10047 1220512	51646	103973	299129	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCB	Ave	5214 513195	8969 1179178	44910	98361	277766	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCB	Ave	5299 548172	9364 1237618	48826	102960	293214	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCB	Ave	1324 192818	3687 413014	15835	30413	93160	5.00 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCB	Ave	4100 466640	7875 992069	42376	91402	243557	0.500 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCB	Lin1	++++ 199832	1696 ++++	13511	31729	92573	++++ 50.0	1.00 ++++	5.00	10.0	25.0
Dicyclopentadiene	DCB	Ave	22536 2007907	38148 4420694	173573	367521	1080897	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCB	Ave	14061 1798706	28096 3659898	156795	344257	943901	0.500 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBZ	Ave	++++ 145474	804 337894	9160	17925	58371	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCB	Ave	6729 652209	9421 1384374	59466	125095	342820	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCB	Ave	5477 975531	8089 2064829	52656	128431	438563	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.: 480-90492-1 Analy Batch No.: 273987
SDG No.: _____
Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/09/2015 21:31 Calibration End Date: 11/09/2015 23:46 Calibration ID: 25561

Curve Type Legend:

Ave = Average ISTD Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4490.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Nov-2015 21:31:30 ALS Bottle#: 47 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 7
 Misc. Info.: 480-0048176-015
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:07 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:53:58

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	5.407	5.401	0.006	97	197074	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	375433	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	330548	25.0	25.0	
11 Chlorodifluoromethane	51	1.273	1.267	0.006	36	5433	0.5000	0.4980	
148 Ethanol	45	2.406	2.400	0.006	54	1712	20.0	14.6	
19 Propene oxide	58	2.497	2.497	0.000	70	5662	NC	NC	
24 Isopropyl alcohol	45	2.942	2.917	0.025	55	4962	5.00	6.48	
29 Acetonitrile	40	3.045	3.033	0.012	71	8305	5.00	4.67	
36 Isopropyl ether	45	3.830	3.824	0.006	90	17215	0.5000	0.4635	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	45	6822	0.5000	0.4278	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	58	3391	2.50	2.68	
41 Tert-butyl ethyl ether	59	4.171	4.165	0.006	87	16024	0.5000	0.4907	
42 Ethyl acetate	43	4.427	4.415	0.012	23	7801	1.00	1.04	
46 Propionitrile	54	4.470	4.458	0.012	65	10044	5.00	5.37	
47 Methacrylonitrile	41	4.585	4.579	0.006	91	36312	5.00	4.98	
152 Isooctane	57	5.157	5.170	-0.013	69	16278	0.5000	0.4571	M
147 t-Amyl alcohol	59	5.206	5.194	0.012	36	3860	5.00	4.79	
56 Tert-amyl methyl ether	73	5.218	5.225	-0.007	73	12308	0.5000	0.5215	
1 1,4-Difluorobenzene	114	5.517	5.511	0.006	44	12450	0.5000	0.5153	
60 n-Butanol	56	5.766	5.754	0.012	26	730	12.5	3.22	
142 Ethyl acrylate	55	5.870	5.864	0.006	1	5764	0.5000	0.4382	
63 Methyl methacrylate	41	6.083	6.083	0.000	47	7916	1.00	0.8549	
70 2-Nitropropane	43	6.503	6.497	0.006	29	1959	1.00	1.04	M
71 Epichlorohydrin	57	6.625	6.625	0.000	1	3365	5.00	5.81	M
76 2-Methylthiophene	97	7.118	7.118	0.000	44	10562	0.5000	0.4560	
78 3-Methylthiophene	97	7.282	7.282	0.000	51	8502	0.5000	0.3593	
155 n-Butyl acetate	43	7.794	7.788	0.006	61	4996	0.5000	0.4928	M
146 1-Chlorohexane	55	8.384	8.384	0.000	23	14615	0.5000	0.6448	
85 3-Chlorobenzotrifluoride	180	8.402	8.402	0.000	1	4605	0.5000	0.4515	
86 4-Chlorobenzotrifluoride	180	8.463	8.463	0.000	34	5214	0.5000	0.5368	

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	9.376	9.376	0.000	24	5299	0.5000	0.5187	
96 Cyclohexanone	55	9.602	9.602	0.000	1	1324	5.00	4.01	
104 3-Chlorotoluene	126	10.052	10.046	0.006	40	4100	0.5000	0.4809	
108 Pentachloroethane	167	10.436	10.430	0.006	1	1008	0.5000	1.02	
114 Dicyclopentadiene	66	10.795	10.801	-0.006	20	22536	0.5000	0.5857	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	38	14061	0.5000	0.4454	
150 Benzyl chloride	126		10.947				ND	ND	
118 1,3,5-Trichlorobenzene	180	12.018	12.031	-0.013	1	6729	0.5000	0.5628	M
149 2-Methylnaphthalene	142	13.680	13.687	-0.007	25	5477	0.5000	0.4052	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00039	Amount Added: 0.50	Units: uL
2MTP_WRK_00048	Amount Added: 0.50	Units: uL
3MTP_WRK_00050	Amount Added: 0.50	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151109-48176.b\\S4490.D

Injection Date: 09-Nov-2015 21:31:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 7

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

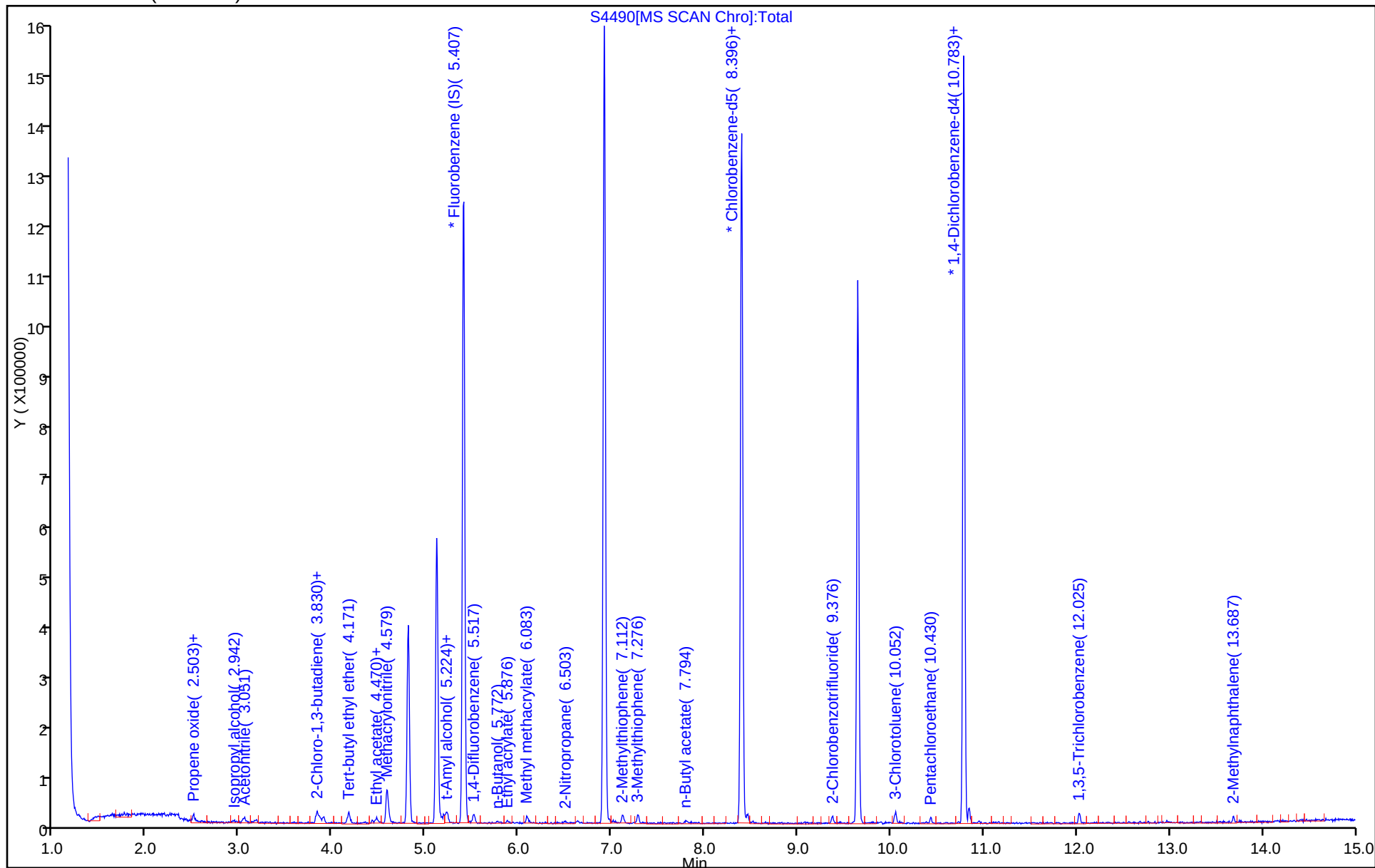
Dil. Factor: 1.0000

ALS Bottle#: 47

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



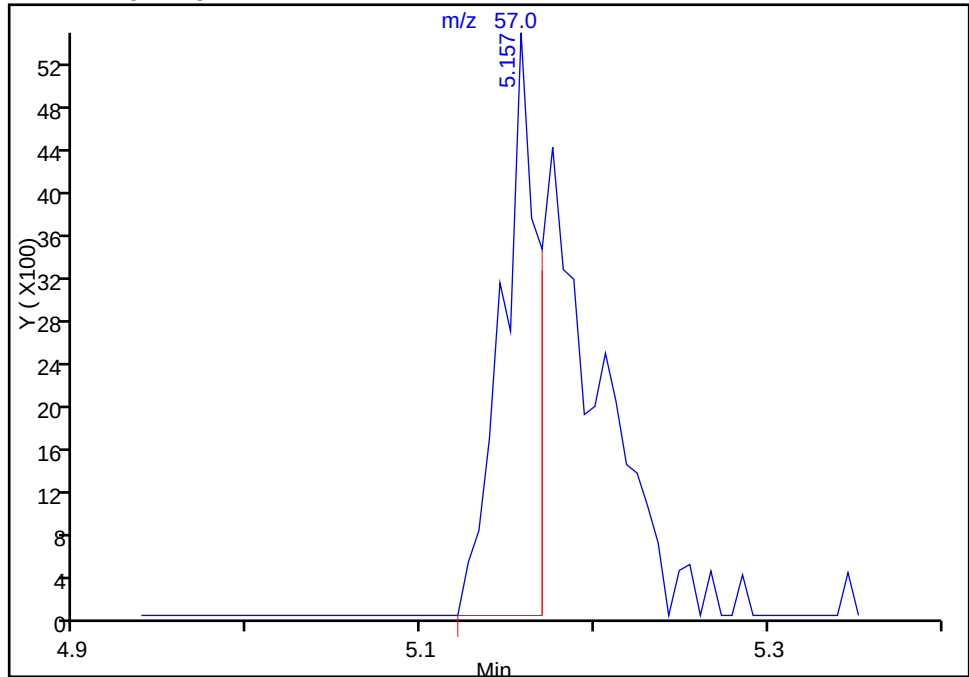
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4490.D
Injection Date: 09-Nov-2015 21:31:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 47 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

152 Isooctane, CAS: 540-84-1

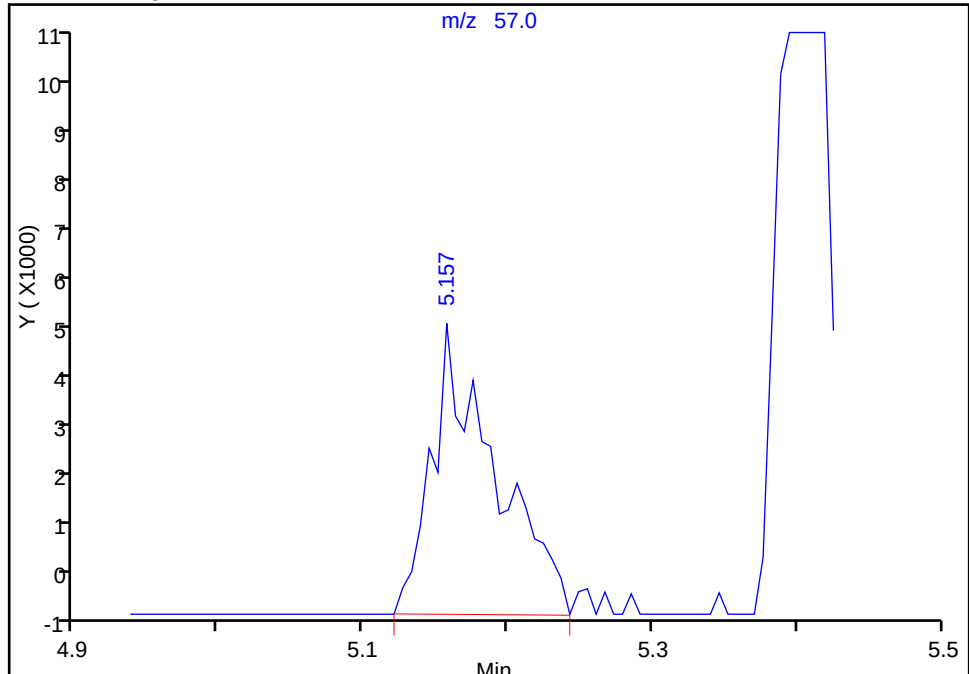
RT: 5.16
Area: 7718
Amount: 0.235576
Amount Units: ug/L

Processing Integration Results



RT: 5.16
Area: 16278
Amount: 0.457080
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:53:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

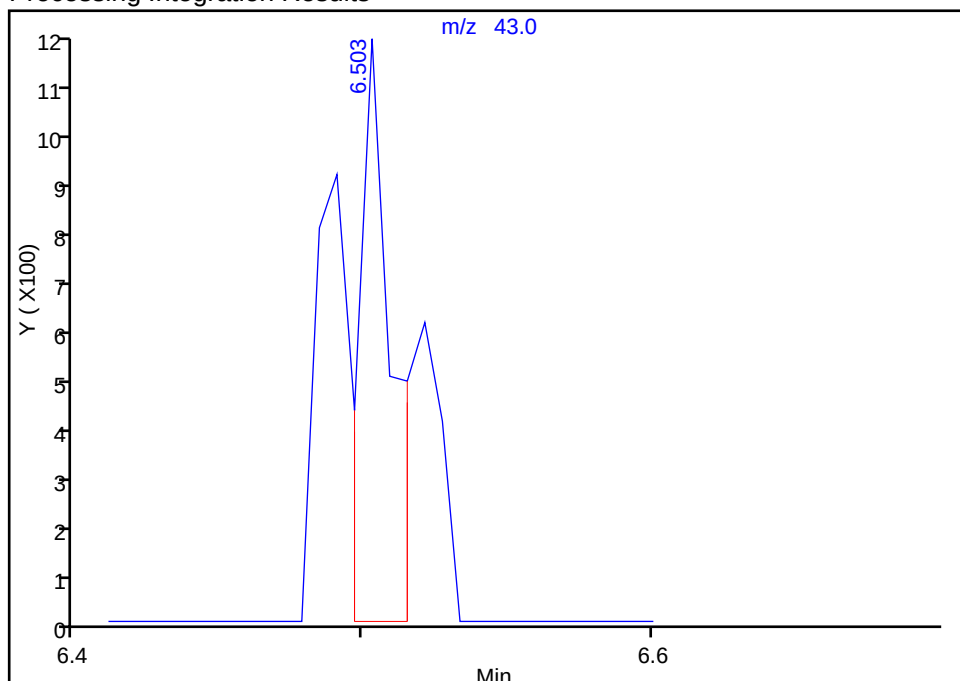
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4490.D
Injection Date: 09-Nov-2015 21:31:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 47 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

70 2-Nitropropane, CAS: 79-46-9

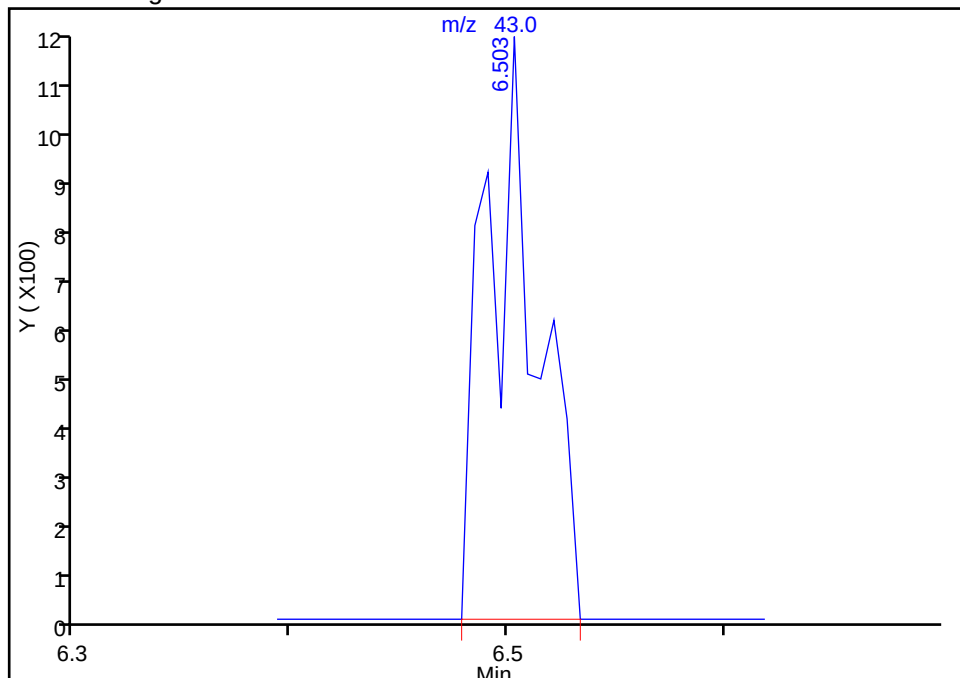
RT: 6.50
Area: 957
Amount: 0.536901
Amount Units: ug/L

Processing Integration Results



RT: 6.50
Area: 1959
Amount: 1.035910
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:53:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4490.D

Injection Date: 09-Nov-2015 21:31:30

Instrument ID: HP5973S

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

47

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)

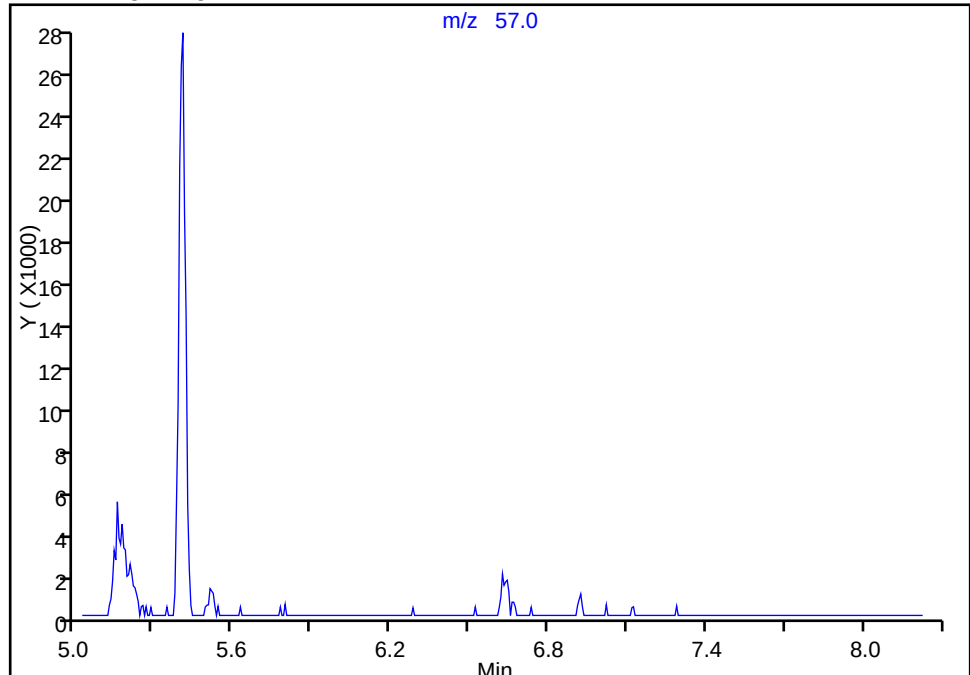
Detector: MS SCAN

71 Epichlorohydrin, CAS: 106-89-8

Not Detected

Expected RT: 6.62

Processing Integration Results



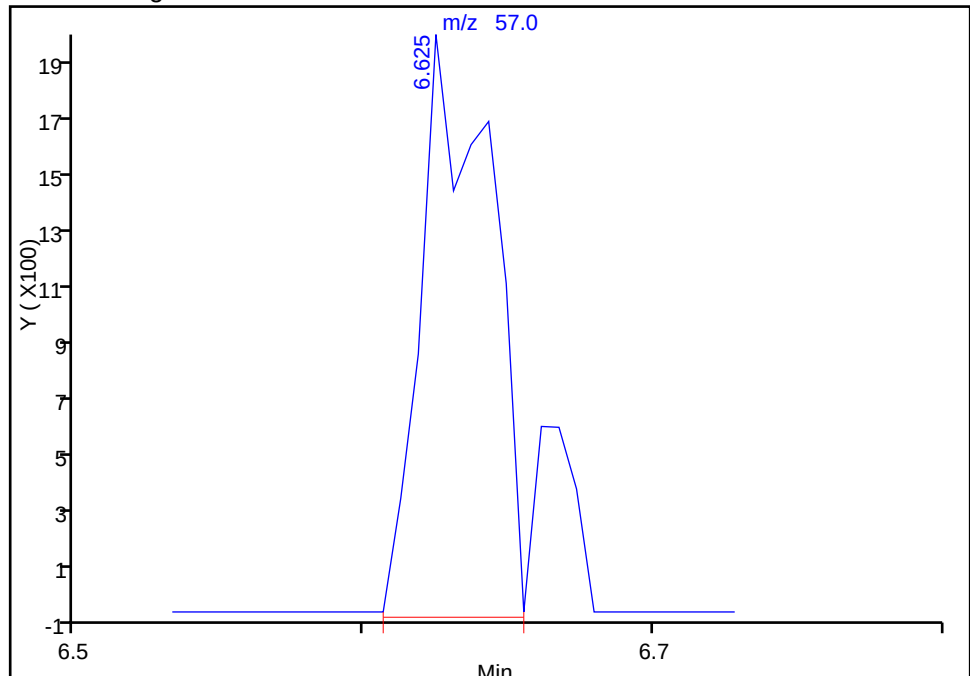
RT: 6.62

Area: 3365

Amount: 5.807012

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:53:58

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4490.D

Injection Date: 09-Nov-2015 21:31:30

Instrument ID: HP5973S

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

47

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)

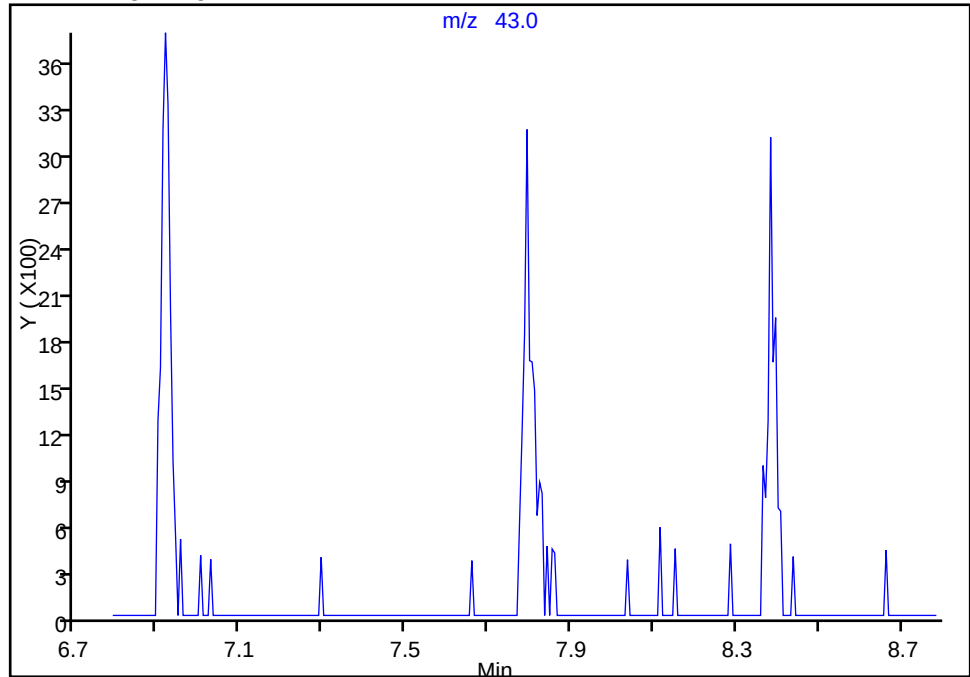
Detector: MS SCAN

155 n-Butyl acetate, CAS: 123-86-4

Not Detected

Expected RT: 7.79

Processing Integration Results



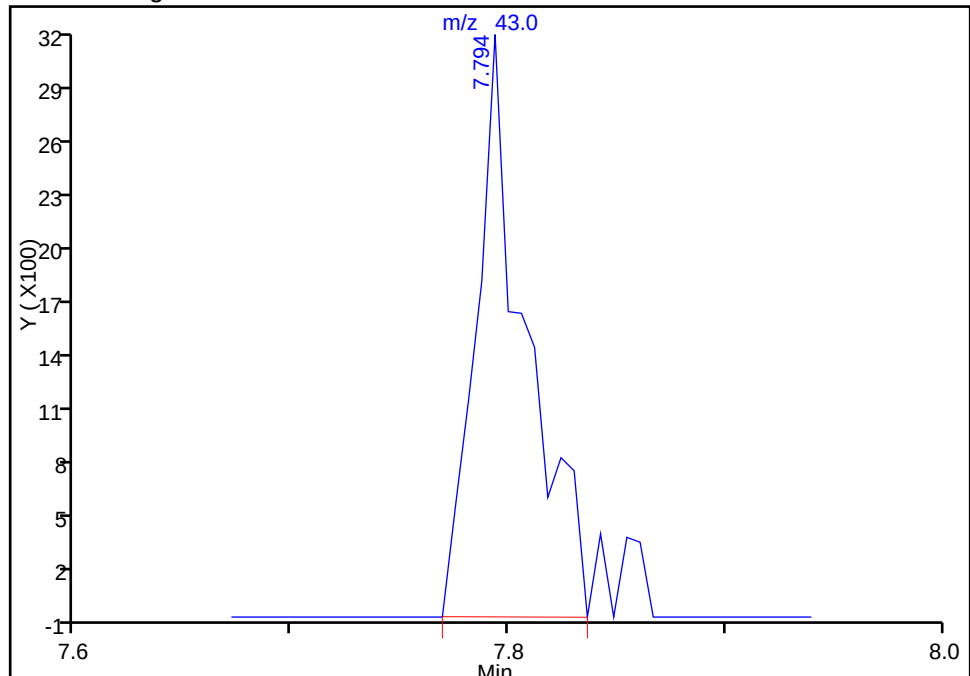
RT: 7.79

Area: 4996

Amount: 0.492830

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:53:58

Audit Action: Manually Integrated

Audit Reason: Split Peak

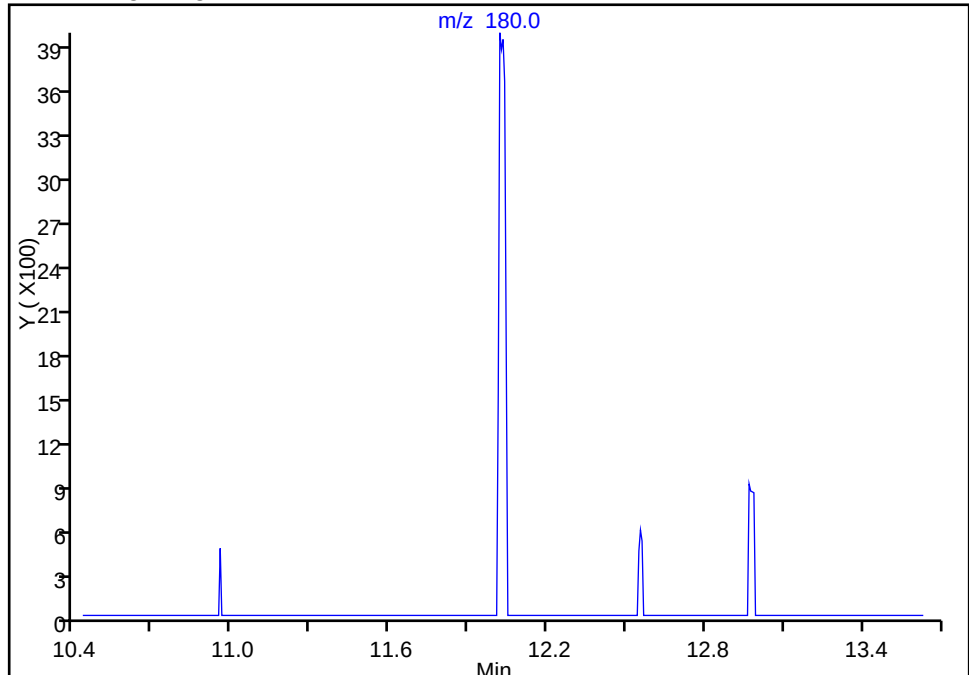
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4490.D
Injection Date: 09-Nov-2015 21:31:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 47 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

118 1,3,5-Trichlorobenzene, CAS: 108-70-3

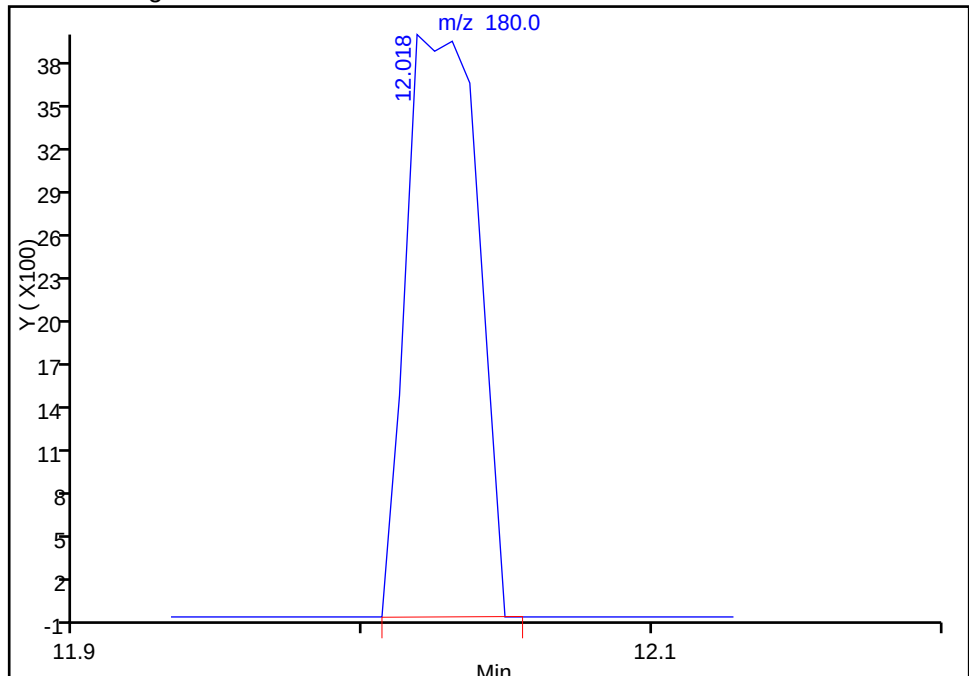
Not Detected
Expected RT: 12.03

Processing Integration Results



RT: 12.02
Area: 6729
Amount: 0.562820
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:53:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Nov-2015 21:53:30 ALS Bottle#: 48 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 8
 Misc. Info.: 480-0048176-016
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:09 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:55:28

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	5.401	5.401	0.000	96	195210	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	384327	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	330306	25.0	25.0	
11 Chlorodifluoromethane	51	1.268	1.267	0.001	29	10206	1.00	0.9445	
148 Ethanol	45	2.406	2.400	0.006	48	6403	40.0	47.8	
19 Propene oxide	58	2.497	2.497	0.000	50	13500	NC	NC	
24 Isopropyl alcohol	45	2.929	2.917	0.012	67	7396	10.0	9.76	
29 Acetonitrile	40	3.039	3.033	0.006	59	12220	10.0	9.54	M
36 Isopropyl ether	45	3.830	3.824	0.006	94	35500	1.00	0.9649	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	42	13999	1.00	0.8862	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	81	5197	5.00	4.15	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	90	31854	1.00	0.9847	
42 Ethyl acetate	43	4.427	4.415	0.012	74	14285	2.00	1.93	
46 Propionitrile	54	4.464	4.458	0.006	93	17427	10.0	9.41	
47 Methacrylonitrile	41	4.585	4.579	0.006	96	67855	10.0	9.39	
152 Isooctane	57	5.164	5.170	-0.006	85	29377	1.00	0.8328	M
147 t-Amyl alcohol	59	5.200	5.194	0.006	32	7578	10.0	9.50	
56 Tert-amyl methyl ether	73	5.231	5.225	0.006	72	20774	1.00	0.8887	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	73	23093	1.00	0.9650	
60 n-Butanol	56	5.773	5.754	0.018	49	3831	25.0	17.0	
142 Ethyl acrylate	55	5.870	5.864	0.006	48	10909	1.00	0.8373	
63 Methyl methacrylate	41	6.089	6.083	0.006	73	14963	2.00	1.63	
70 2-Nitropropane	43	6.509	6.497	0.012	37	3152	2.00	1.67	M
71 Epichlorohydrin	57	6.637	6.625	0.012	1	8545	10.0	10.5	M
76 2-Methylthiophene	97	7.112	7.118	-0.006	62	21402	1.00	0.9247	
78 3-Methylthiophene	97	7.282	7.282	0.000	66	22374	1.00	0.9463	
155 n-Butyl acetate	43	7.788	7.788	0.000	73	8270	1.00	0.8236	
146 1-Chlorohexane	55	8.390	8.384	0.006	26	18298	1.00	0.9344	
85 3-Chlorobenzotrifluoride	180	8.402	8.402	0.000	23	10047	1.00	0.9857	
86 4-Chlorobenzotrifluoride	180	8.457	8.463	-0.006	18	8969	1.00	0.9240	

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	9.370	9.376	-0.006	36	9364	1.00	0.9173	
96 Cyclohexanone	55	9.602	9.602	0.000	8	3687	10.0	11.2	M
104 3-Chlorotoluene	126	10.046	10.046	0.000	64	7875	1.00	0.9243	
108 Pentachloroethane	167	10.436	10.430	0.006	33	1696	1.00	1.21	
114 Dicyclopentadiene	66	10.795	10.801	-0.006	43	38148	1.00	0.99	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	24	28096	1.00	0.8907	
150 Benzyl chloride	126	10.953	10.947	0.006	0	804	1.00	0.3874	M
118 1,3,5-Trichlorobenzene	180	12.025	12.031	-0.006	69	9421	1.00	0.7886	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	42	8089	1.00	0.5988	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00039	Amount Added: 1.00	Units: uL
2MTP_WRK_00048	Amount Added: 1.00	Units: uL
3MTP_WRK_00050	Amount Added: 1.00	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D

Injection Date: 09-Nov-2015 21:53:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 8

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

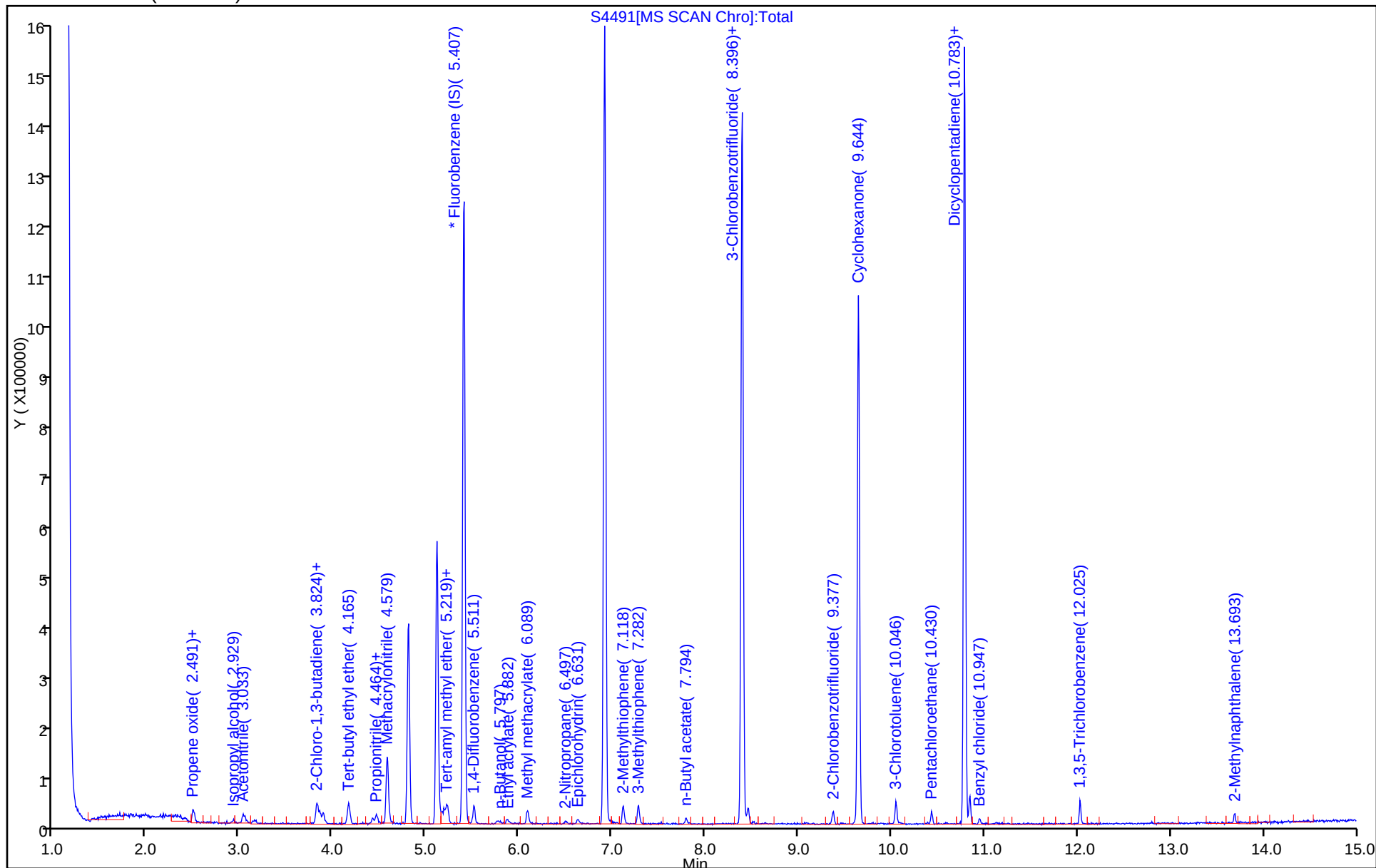
Dil. Factor: 1.0000

ALS Bottle#: 48

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



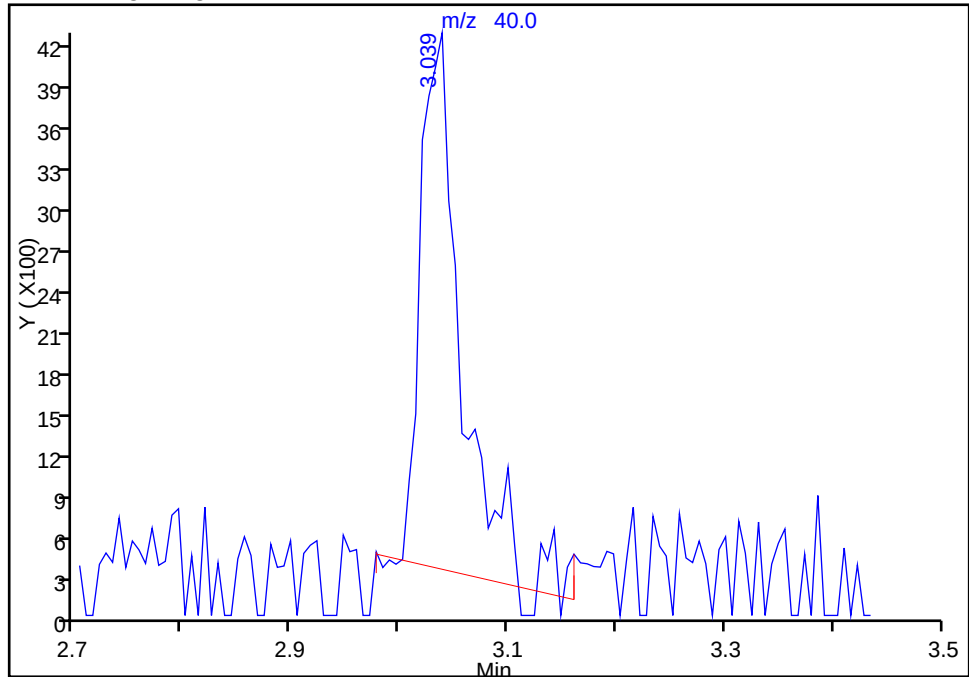
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D
Injection Date: 09-Nov-2015 21:53:30 Instrument ID: HP5973S
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 48 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

29 Acetonitrile, CAS: 75-05-8

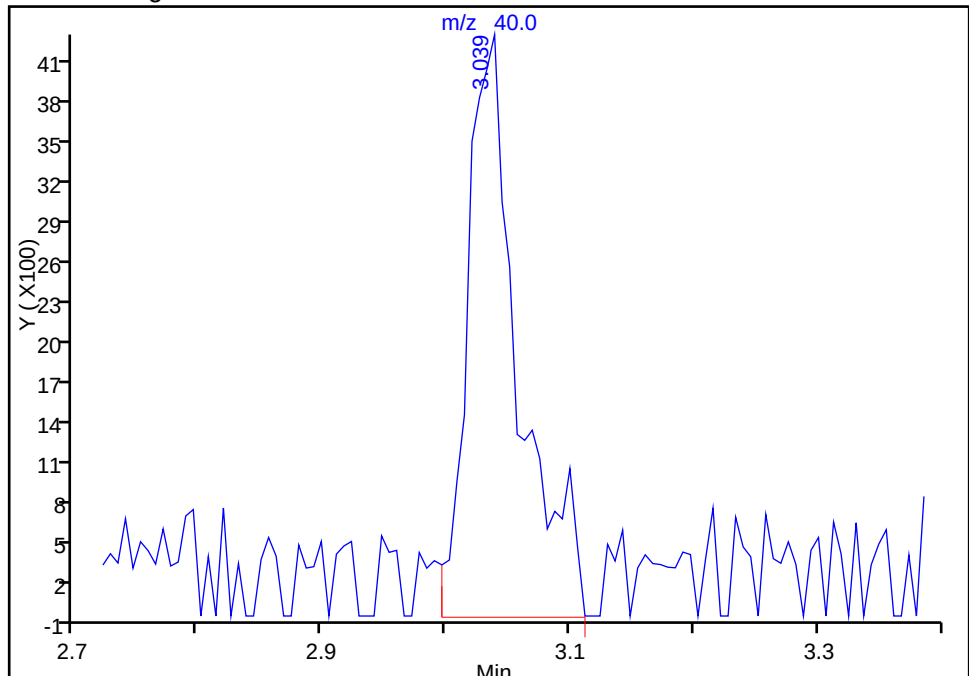
RT: 3.04
Area: 10265
Amount: 8.373622
Amount Units: ug/L

Processing Integration Results



RT: 3.04
Area: 12220
Amount: 9.537704
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:55:28
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

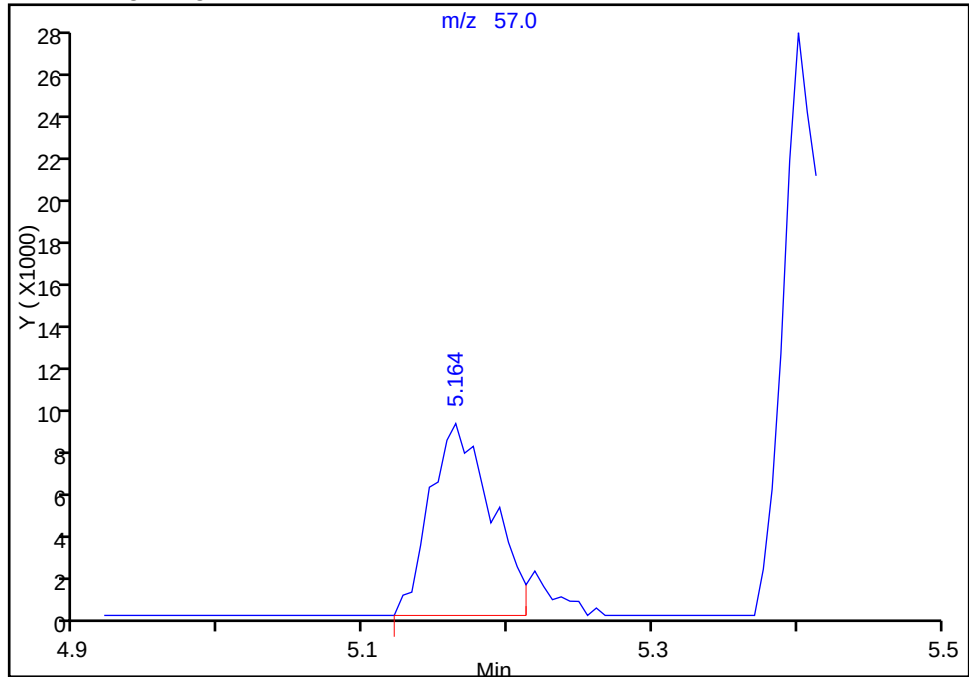
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D
Injection Date: 09-Nov-2015 21:53:30 Instrument ID: HP5973S
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 48 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

152 Isooctane, CAS: 540-84-1

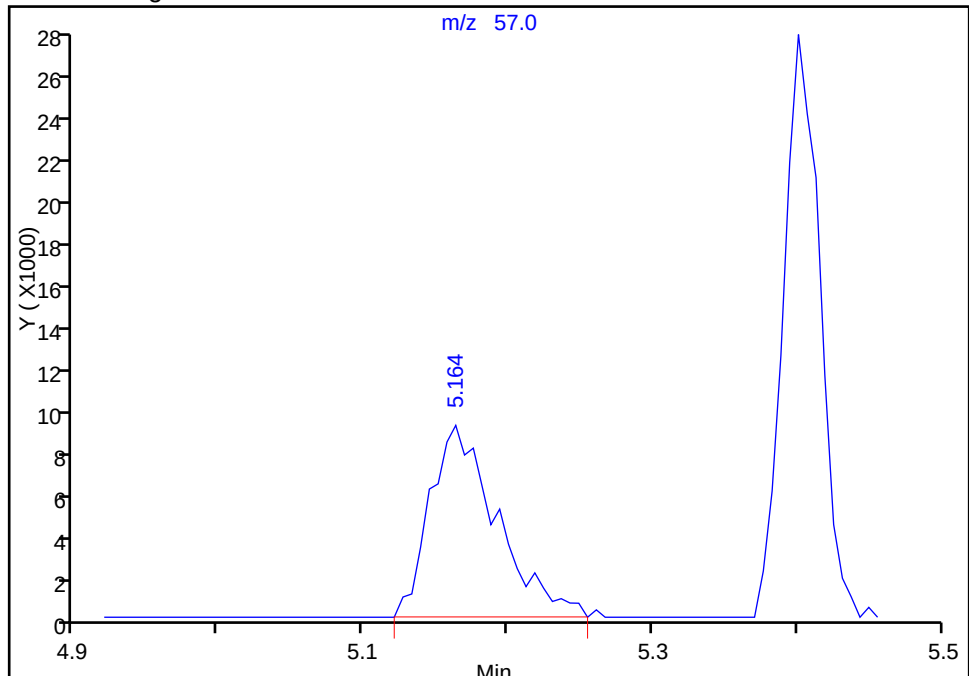
RT: 5.16
Area: 27135
Amount: 0.836902
Amount Units: ug/L

Processing Integration Results



RT: 5.16
Area: 29377
Amount: 0.832771
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:56:49
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D

Injection Date: 09-Nov-2015 21:53:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

48

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

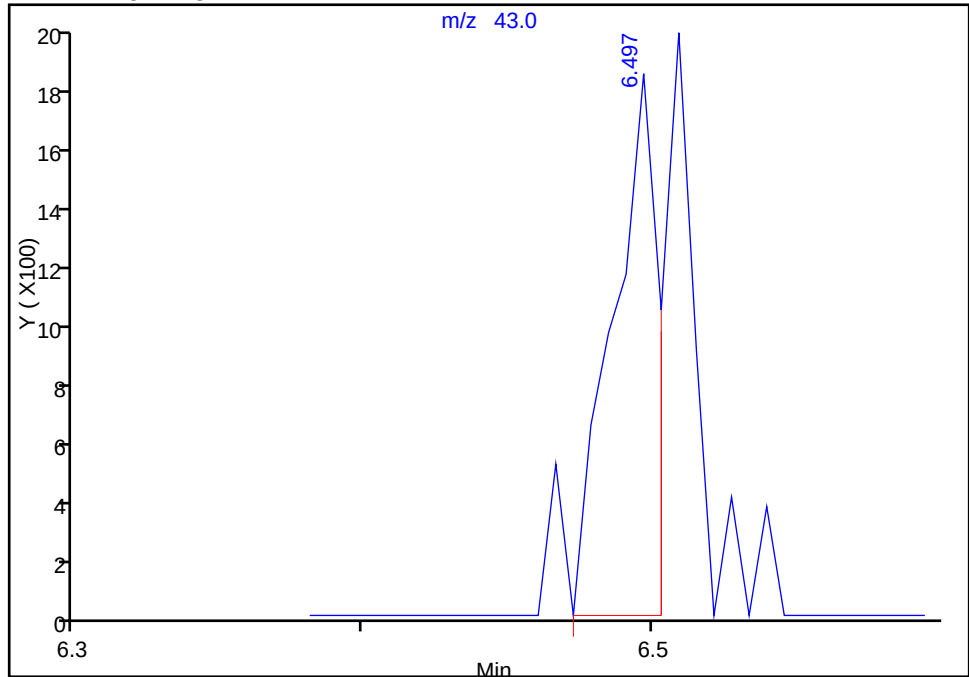
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

70 2-Nitropropane, CAS: 79-46-9

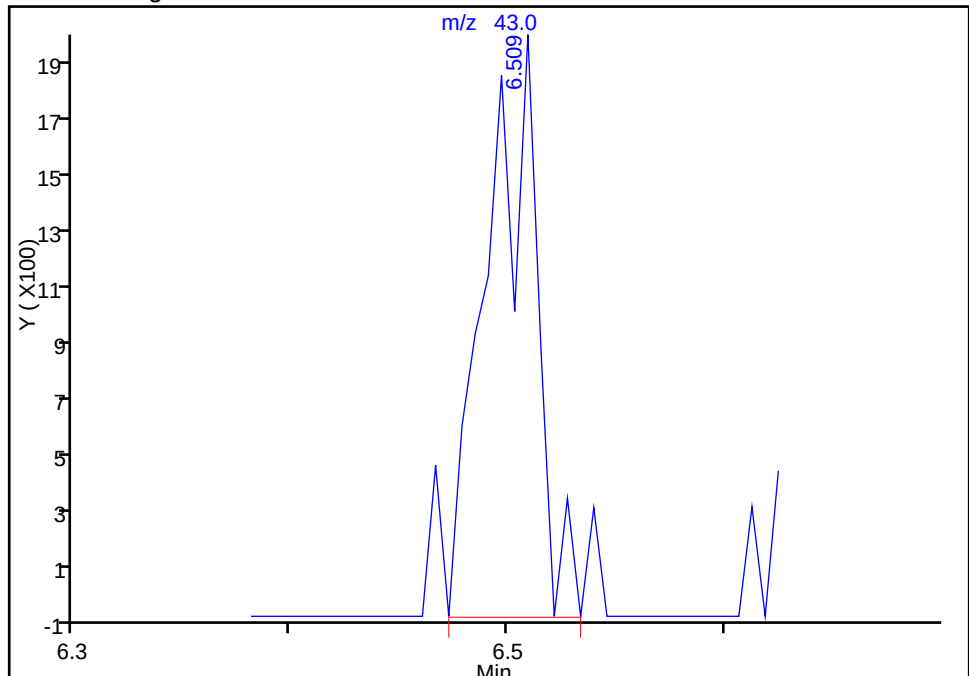
RT: 6.50
Area: 1985
Amount: 1.098902
Amount Units: ug/L

Processing Integration Results



RT: 6.51
Area: 3152
Amount: 1.667984
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:56:49

Audit Action: Manually Integrated

Audit Reason: Split Peak

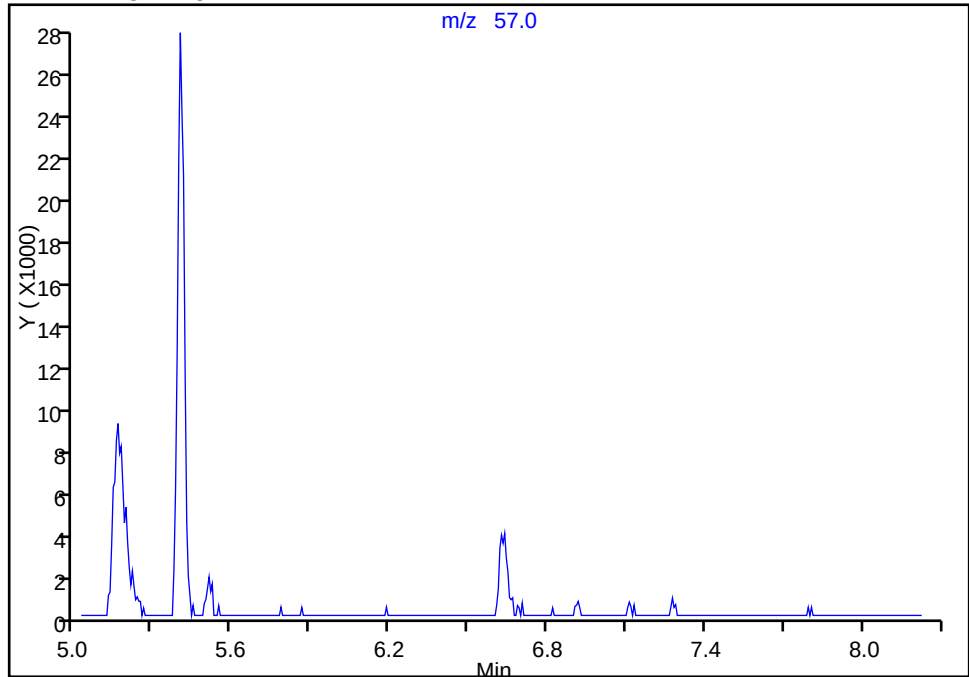
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D
Injection Date: 09-Nov-2015 21:53:30 Instrument ID: HP5973S
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 48 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

71 Epichlorohydrin, CAS: 106-89-8

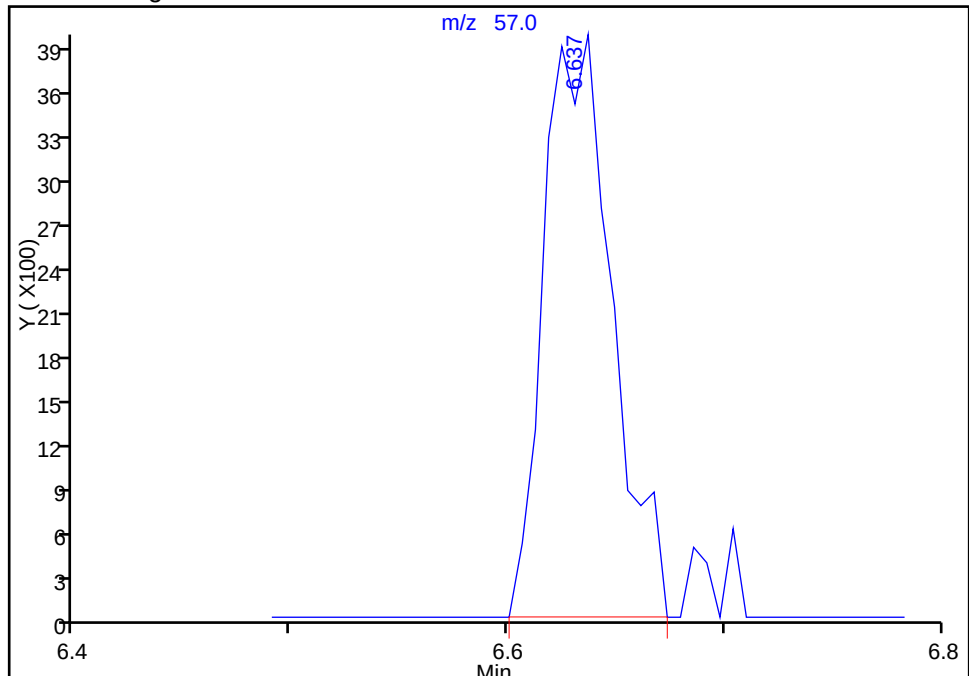
Not Detected
Expected RT: 6.62

Processing Integration Results



RT: 6.64
Area: 8545
Amount: 10.478114
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:56:49
Audit Action: Manually Integrated
Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D

Injection Date: 09-Nov-2015 21:53:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

48

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)

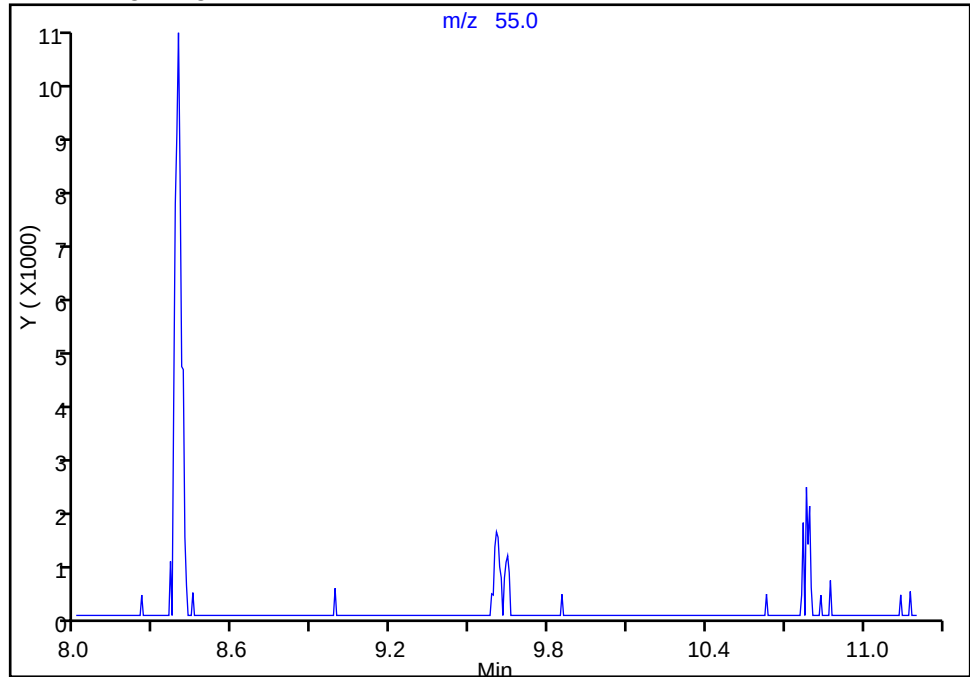
Detector: MS SCAN

96 Cyclohexanone, CAS: 108-94-1

Not Detected

Expected RT: 9.60

Processing Integration Results



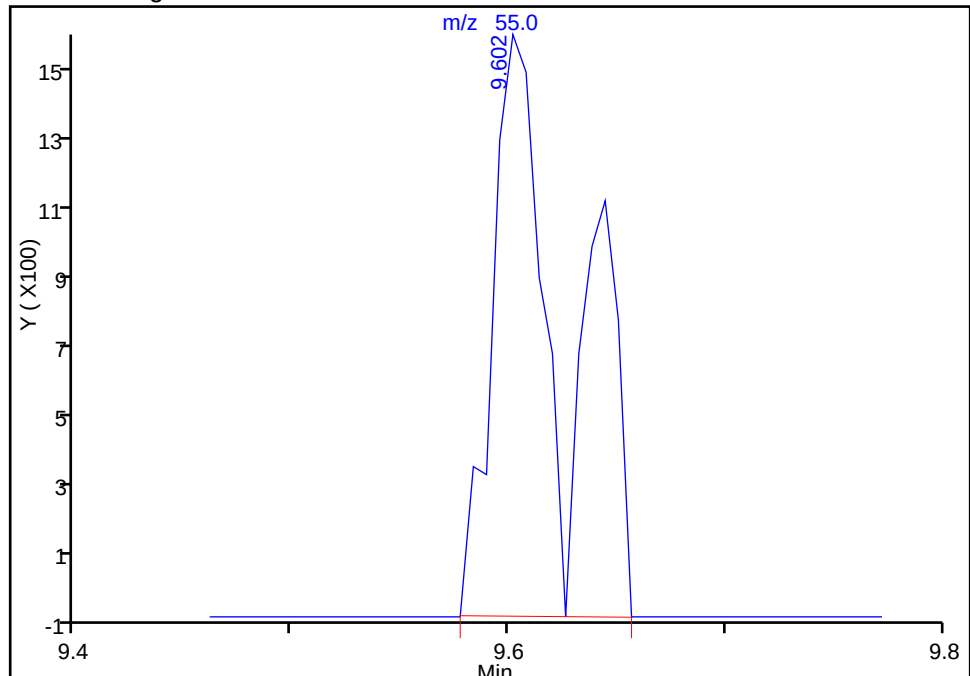
RT: 9.60

Area: 3687

Amount: 11.187842

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:56:49

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4491.D

Injection Date: 09-Nov-2015 21:53:30

Instrument ID: HP5973S

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

48

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)

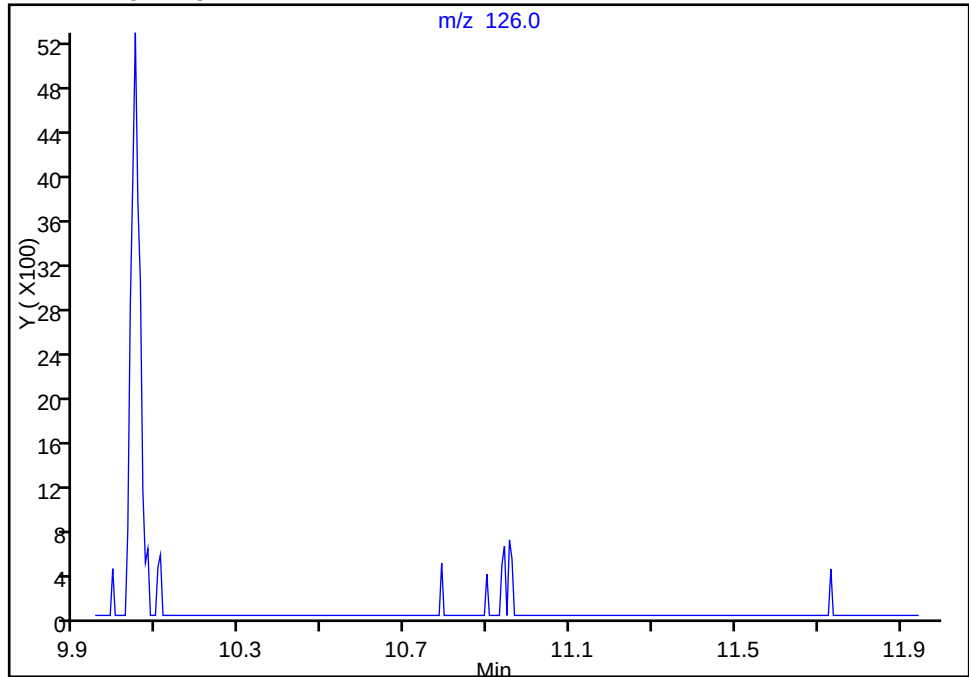
Detector: MS SCAN

150 Benzyl chloride, CAS: 100-44-7

Not Detected

Expected RT: 10.95

Processing Integration Results



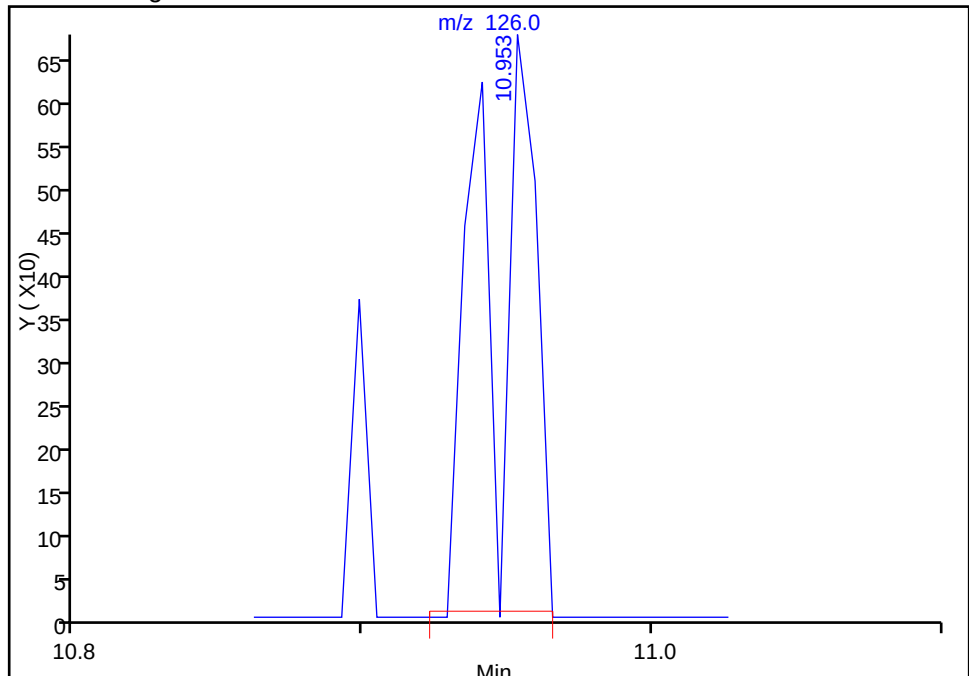
RT: 10.95

Area: 804

Amount: 0.387402

Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:56:49

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4492.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Nov-2015 22:16:30 ALS Bottle#: 49 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 9
 Misc. Info.: 480-0048176-017
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:11 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:57:36

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	5.401	5.401	0.000	96	202669	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	90	398601	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	341522	25.0	25.0	
11 Chlorodifluoromethane	51	1.267	1.267	0.000	64	53610	5.00	4.78	
148 Ethanol	45	2.400	2.400	0.000	92	27257	200.0	187.8	
19 Propene oxide	58	2.497	2.497	0.000	83	65851	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	89	33601	50.0	42.7	
29 Acetonitrile	40	3.033	3.033	0.000	99	48820	50.0	52.0	M
36 Isopropyl ether	45	3.824	3.824	0.000	95	177628	5.00	4.65	
40 2-Chloro-1,3-butadiene	53	3.861	3.855	0.006	84	78225	5.00	4.77	
38 1,1-Dimethoxyethane	75	3.885	3.891	-0.006	82	29606	25.0	22.8	
41 Tert-butyl ethyl ether	59	4.171	4.165	0.006	92	159745	5.00	4.76	
42 Ethyl acetate	43	4.421	4.415	0.006	94	70643	10.0	9.17	
46 Propionitrile	54	4.457	4.458	-0.001	96	91178	50.0	47.4	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	376395	50.0	50.2	
152 Isooctane	57	5.176	5.170	0.006	93	178159	5.00	4.86	M
147 t-Amyl alcohol	59	5.200	5.194	0.006	65	36658	50.0	44.3	
56 Tert-amyl methyl ether	73	5.224	5.225	-0.001	74	114537	5.00	4.72	
1 1,4-Difluorobenzene	114	5.517	5.511	0.006	94	117340	5.00	4.72	
60 n-Butanol	56	5.754	5.754	0.000	85	26911	125.0	115.3	
142 Ethyl acrylate	55	5.870	5.864	0.006	93	58664	5.00	4.34	
63 Methyl methacrylate	41	6.083	6.083	0.000	83	85050	10.0	8.93	
70 2-Nitropropane	43	6.497	6.497	0.000	91	15785	10.0	8.08	
71 Epichlorohydrin	57	6.631	6.625	0.006	91	45054	50.0	41.7	
76 2-Methylthiophene	97	7.118	7.118	0.000	96	118536	5.00	4.95	
78 3-Methylthiophene	97	7.276	7.282	-0.006	95	115889	5.00	4.74	
155 n-Butyl acetate	43	7.787	7.788	-0.001	94	42075	5.00	4.04	
146 1-Chlorohexane	55	8.384	8.384	0.000	43	63004	5.00	4.62	
85 3-Chlorobenzotrifluoride	180	8.396	8.402	-0.006	49	51646	5.00	4.90	
86 4-Chlorobenzotrifluoride	180	8.457	8.463	-0.006	83	44910	5.00	4.47	

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	9.370	9.376	-0.006	83	48826	5.00	4.63	
96 Cyclohexanone	55	9.608	9.602	0.006	66	15835	50.0	46.5	
104 3-Chlorotoluene	126	10.046	10.046	0.000	95	42376	5.00	4.81	
108 Pentachloroethane	167	10.436	10.430	0.006	60	13511	5.00	4.35	
114 Dicyclopentadiene	66	10.801	10.801	0.000	91	173573	5.00	4.37	
112 1,2,3-Trimethylbenzene	105	10.843	10.844	-0.001	41	156795	5.00	4.81	
150 Benzyl chloride	126	10.947	10.947	0.000	81	9160	5.00	4.26	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	90	59466	5.00	4.81	
149 2-Methylnaphthalene	142	13.686	13.687	-0.001	80	52656	5.00	3.77	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00039	Amount Added: 5.00	Units: uL
2MTP_WRK_00048	Amount Added: 5.00	Units: uL
3MTP_WRK_00050	Amount Added: 5.00	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4492.D

Injection Date: 09-Nov-2015 22:16:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 9

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

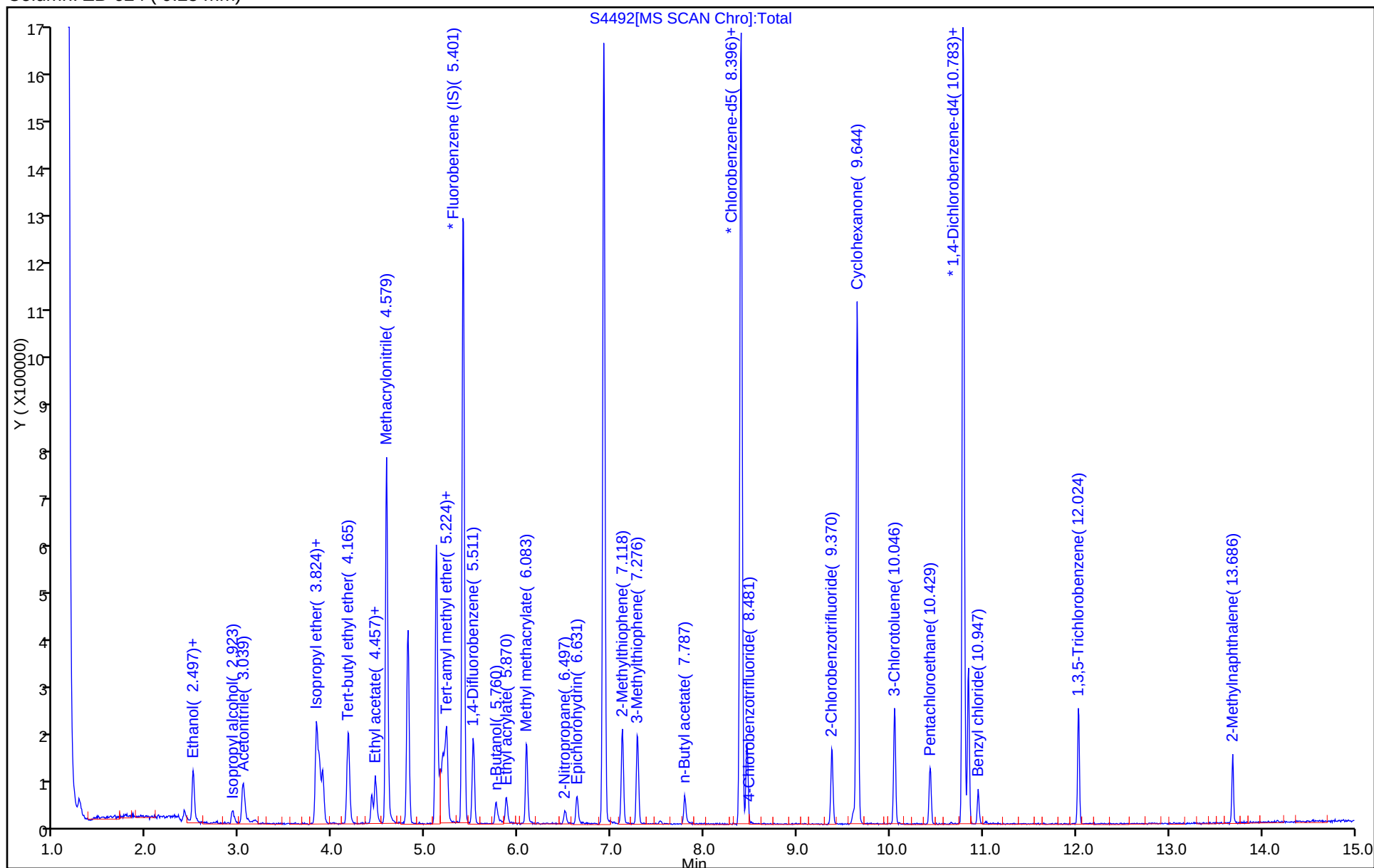
Dil. Factor: 1.0000

ALS Bottle#: 49

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



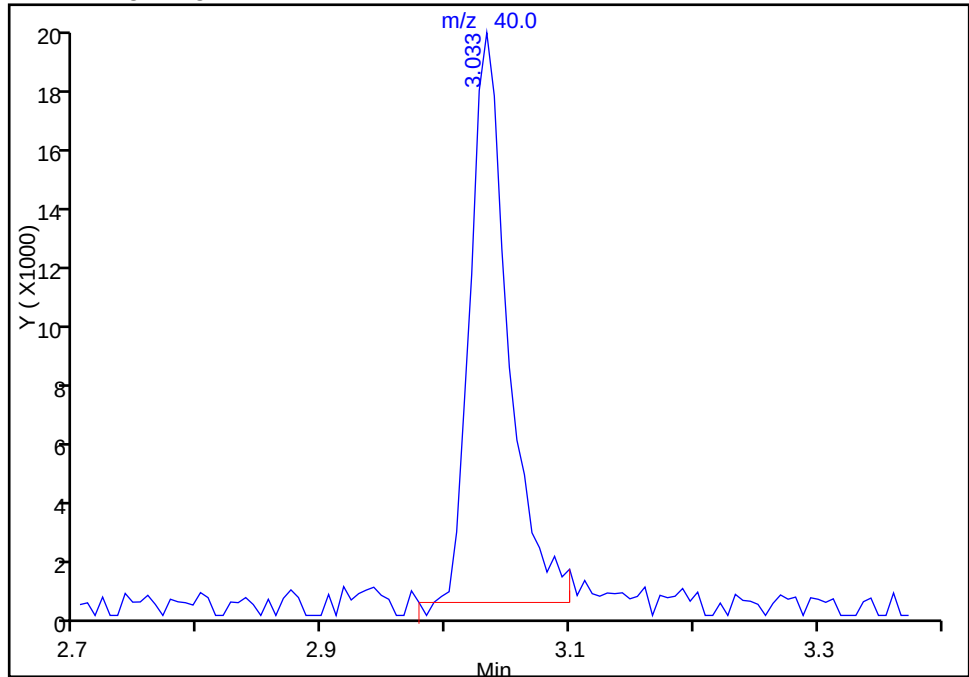
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4492.D
Injection Date: 09-Nov-2015 22:16:30 Instrument ID: HP5973S
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 49 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

29 Acetonitrile, CAS: 75-05-8

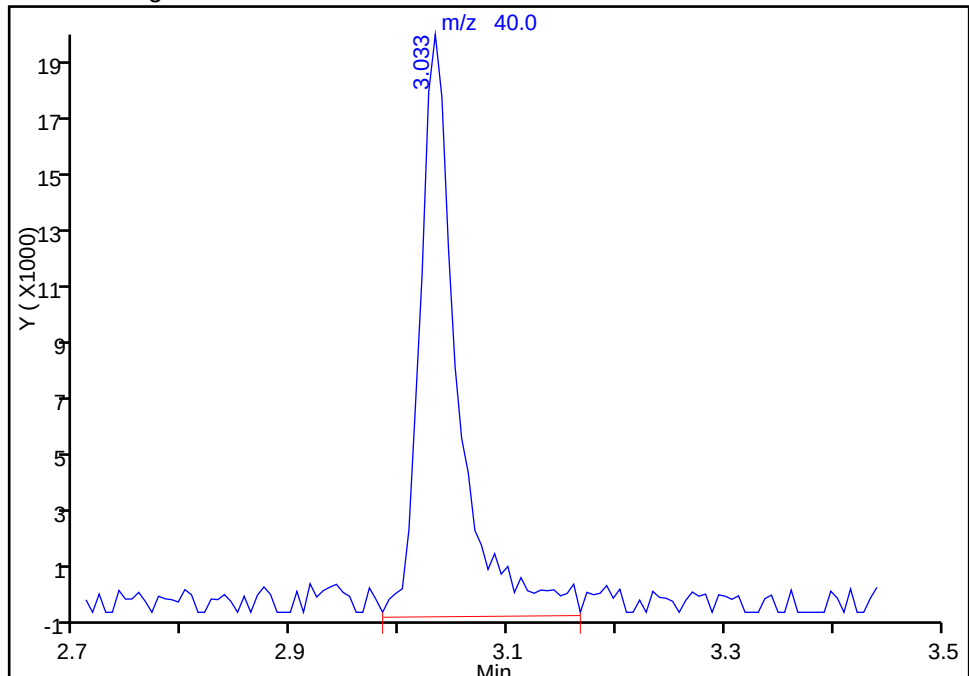
RT: 3.03
Area: 41209
Amount: 43.619440
Amount Units: ug/L

Processing Integration Results



RT: 3.03
Area: 48820
Amount: 51.956807
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:57:36
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4492.D

Injection Date: 09-Nov-2015 22:16:30

Instrument ID: HP5973S

Lims ID: IC 9

Client ID:

Operator ID: LH

ALS Bottle#:

49

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

Limit Group: MV - 8260C ICAL

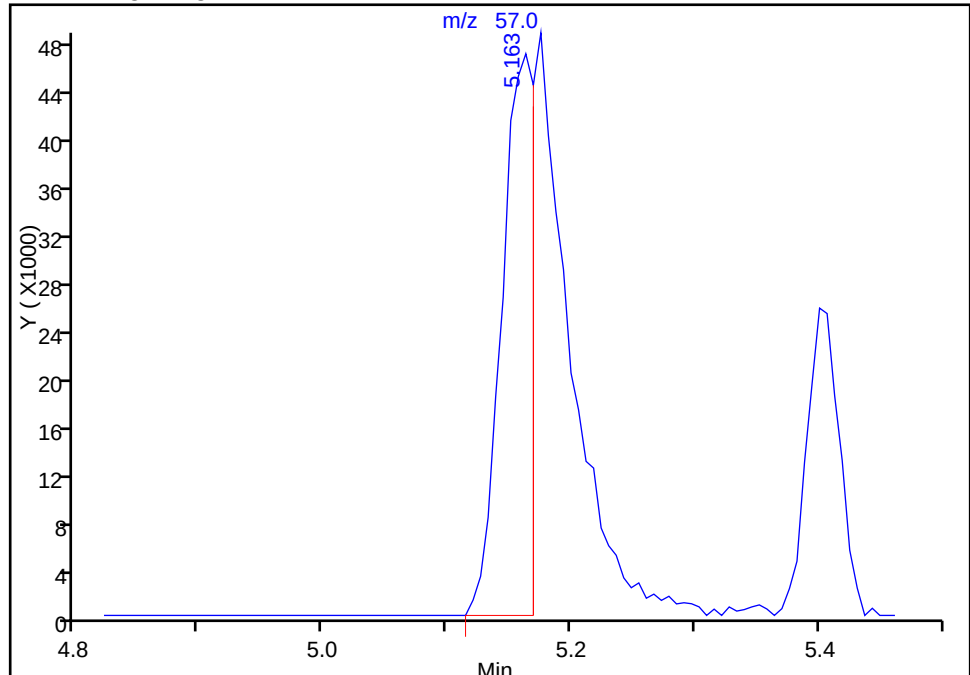
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

152 Isooctane, CAS: 540-84-1

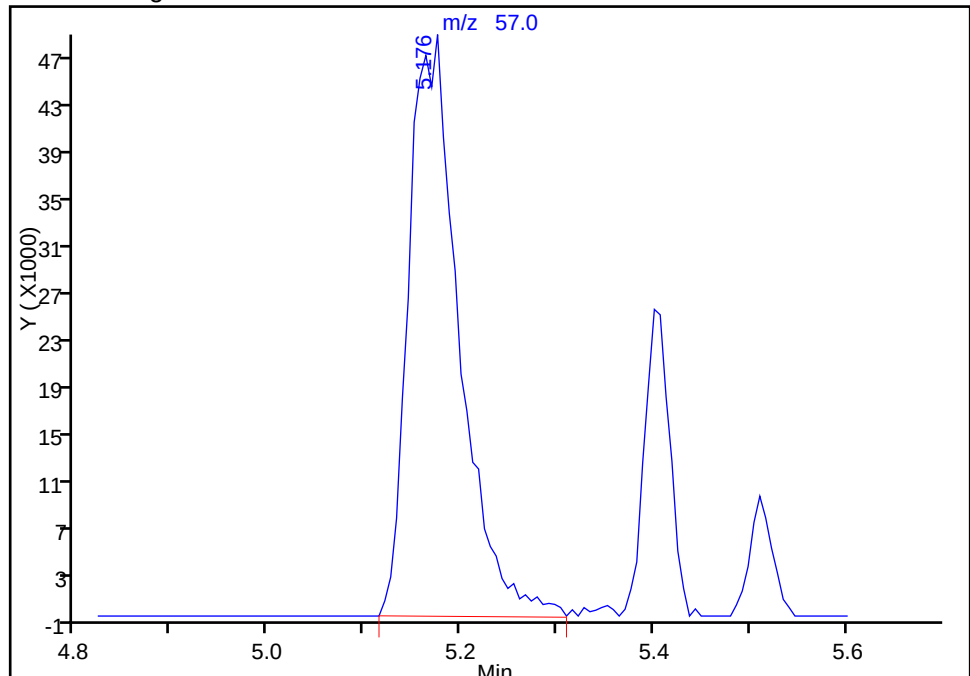
RT: 5.16
Area: 86125
Amount: 2.533492
Amount Units: ug/L

Processing Integration Results



RT: 5.18
Area: 178159
Amount: 4.864526
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 10-Nov-2015 13:57:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4493.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Nov-2015 22:38:30 ALS Bottle#: 50 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 10
 Misc. Info.: 480-0048176-018
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:14 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:58:02

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	5.401	5.401	0.000	97	214642	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	415292	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	351841	25.0	25.0	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	67	89084	10.0	7.50	
148 Ethanol	45	2.406	2.406	0.000	92	65592	400.0	423.5	
19 Propene oxide	58	2.491	2.491	0.000	93	140332	NC	NC	
24 Isopropyl alcohol	45	2.911	2.911	0.000	95	83244	100.0	99.9	
29 Acetonitrile	40	3.027	3.027	0.000	96	98830	100.0	104.2	
36 Isopropyl ether	45	3.824	3.824	0.000	94	397889	10.0	9.84	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	84	155551	10.0	8.96	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	65	66651	50.0	48.4	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	342697	10.0	9.63	
42 Ethyl acetate	43	4.415	4.415	0.000	96	162939	20.0	20.0	
46 Propionitrile	54	4.457	4.457	0.000	97	207006	100.0	101.6	
47 Methacrylonitrile	41	4.573	4.573	0.000	98	834165	100.0	104.9	
152 Isooctane	57	5.170	5.170	0.000	96	338190	10.0	8.72	
147 t-Amyl alcohol	59	5.194	5.194	0.000	76	89087	100.0	101.6	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	86	252021	10.0	9.80	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	254950	10.0	9.69	
60 n-Butanol	56	5.754	5.754	0.000	90	62637	250.0	253.3	
142 Ethyl acrylate	55	5.864	5.864	0.000	87	144765	10.0	10.1	
63 Methyl methacrylate	41	6.083	6.083	0.000	87	210163	20.0	20.8	
70 2-Nitropropane	43	6.503	6.503	0.000	98	33528	20.0	16.7	
71 Epichlorohydrin	57	6.625	6.625	0.000	95	111372	100.0	93.6	
76 2-Methylthiophene	97	7.118	7.118	0.000	97	246738	10.0	10.0	
78 3-Methylthiophene	97	7.276	7.276	0.000	98	244333	10.0	9.70	
155 n-Butyl acetate	43	7.787	7.787	0.000	92	105306	10.0	9.54	
146 1-Chlorohexane	55	8.384	8.384	0.000	52	113964	10.0	8.50	
85 3-Chlorobenzotrifluoride	180	8.402	8.402	0.000	56	103973	10.0	9.58	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	91	98361	10.0	9.51	

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	9.376	9.376	0.000	88	102960	10.0	9.47	
96 Cyclohexanone	55	9.602	9.602	0.000	88	30413	100.0	86.6	
104 3-Chlorotoluene	126	10.052	10.052	0.000	96	91402	10.0	10.1	
108 Pentachloroethane	167	10.430	10.430	0.000	65	31729	10.0	8.96	
114 Dicyclopentadiene	66	10.801	10.801	0.000	96	367521	10.0	8.97	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	48	344257	10.0	10.2	
150 Benzyl chloride	126	10.947	10.947	0.000	94	17925	10.0	7.99	
118 1,3,5-Trichlorobenzene	180	12.025	12.025	0.000	93	125095	10.0	9.83	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	92	128431	10.0	8.93	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00039	Amount Added: 5.00	Units: uL
2MTP_WRK_00048	Amount Added: 5.00	Units: uL
3MTP_WRK_00050	Amount Added: 5.00	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151109-48176.b\\S4493.D

Injection Date: 09-Nov-2015 22:38:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 10

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

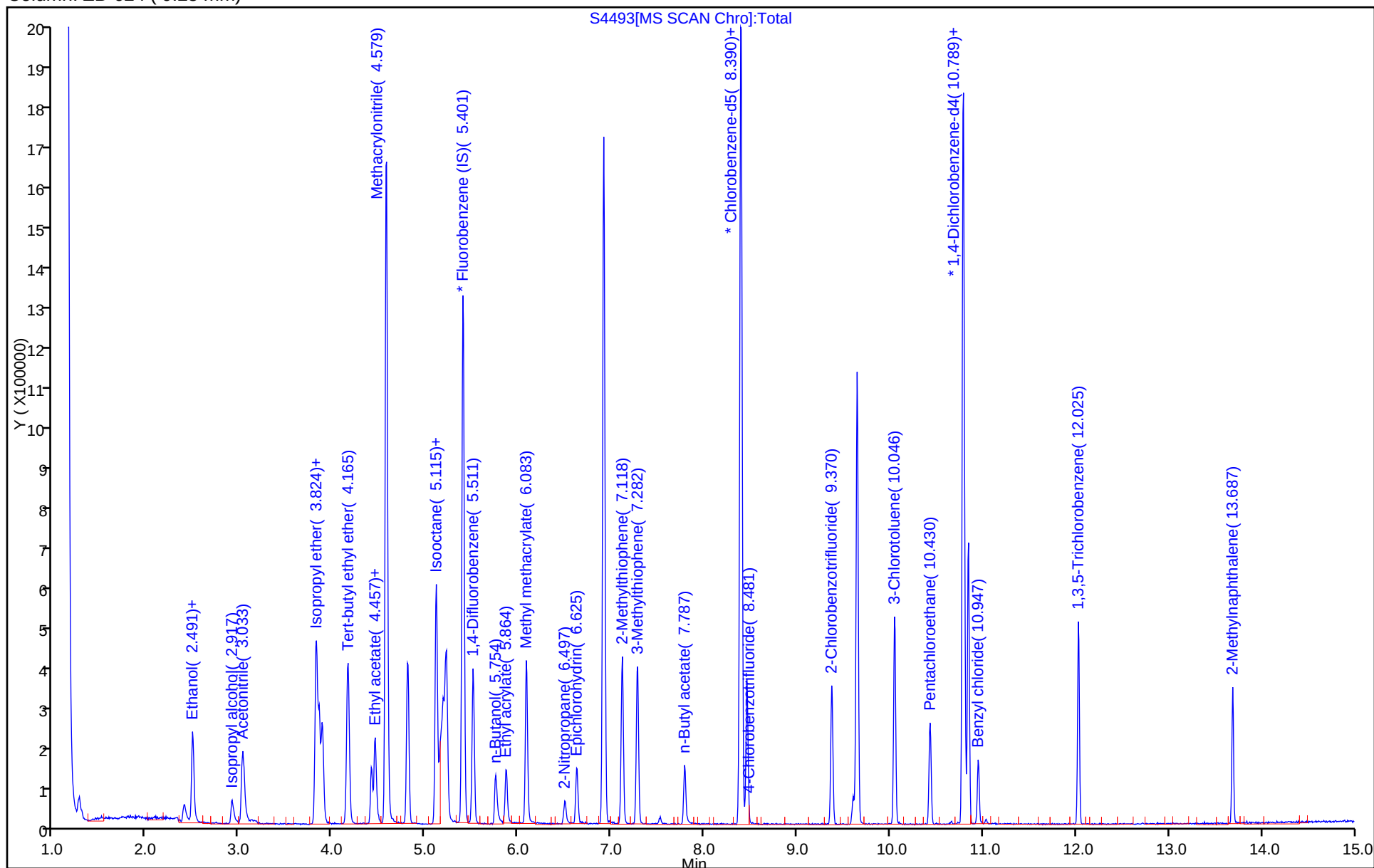
Dil. Factor: 1.0000

ALS Bottle#: 50

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4494.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Nov-2015 23:00:30 ALS Bottle#: 51 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 11
 Misc. Info.: 480-0048176-019
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:16 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:52:06

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	5.401	5.401	0.000	96	205584	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	398184	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	89	352461	25.0	25.0	
11 Chlorodifluoromethane	51	1.267	1.267	0.000	77	331171	25.0	29.1	
148 Ethanol	45	2.400	2.400	0.000	97	159961	1000.0	1074.2	
19 Propene oxide	58	2.497	2.497	0.000	95	350279	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	94	191971	250.0	240.5	
29 Acetonitrile	40	3.033	3.033	0.000	99	227485	250.0	257.9	
36 Isopropyl ether	45	3.824	3.824	0.000	97	1050936	25.0	27.1	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	83	486788	25.0	29.3	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	63	173802	125.0	131.7	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	887513	25.0	26.1	
42 Ethyl acetate	43	4.415	4.415	0.000	98	400580	50.0	51.3	
46 Propionitrile	54	4.458	4.458	0.000	98	505575	250.0	259.2	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	2047908	250.0	269.0	
152 Isooctane	57	5.170	5.170	0.000	96	1108294	25.0	29.8	
147 t-Amyl alcohol	59	5.194	5.194	0.000	74	218215	250.0	259.7	
56 Tert-amyl methyl ether	73	5.225	5.225	0.000	85	645044	25.0	26.2	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	98	672720	25.0	26.7	
60 n-Butanol	56	5.754	5.754	0.000	91	187707	625.0	792.6	
142 Ethyl acrylate	55	5.864	5.864	0.000	97	376639	25.0	27.4	
63 Methyl methacrylate	41	6.083	6.083	0.000	89	547053	50.0	56.6	
70 2-Nitropropane	43	6.497	6.497	0.000	98	97416	50.0	48.3	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	291439	250.0	250.8	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	656864	25.0	26.6	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	640020	25.0	25.4	
155 n-Butyl acetate	43	7.788	7.788	0.000	97	289477	25.0	27.4	
146 1-Chlorohexane	55	8.384	8.384	0.000	87	319384	25.0	26.1	
85 3-Chlorobenzotrifluoride	180	8.402	8.402	0.000	80	299129	25.0	27.5	
86 4-Chlorobenzotrifluoride	180	8.463	8.463	0.000	93	277766	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	9.376	9.376	0.000	93	293214	25.0	26.9	
96 Cyclohexanone	55	9.602	9.602	0.000	95	93160	250.0	264.9	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	243557	25.0	26.8	
108 Pentachloroethane	167	10.430	10.430	0.000	72	92573	25.0	24.7	
114 Dicyclopentadiene	66	10.801	10.801	0.000	97	1080897	25.0	26.3	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	95	943901	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	97	58371	25.0	27.1	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	342820	25.0	26.9	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	438563	25.0	30.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00039	Amount Added: 12.50	Units: uL
2MTP_WRK_00048	Amount Added: 12.50	Units: uL
3MTP_WRK_00050	Amount Added: 12.50	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4494.D

Injection Date: 09-Nov-2015 23:00:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 11

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

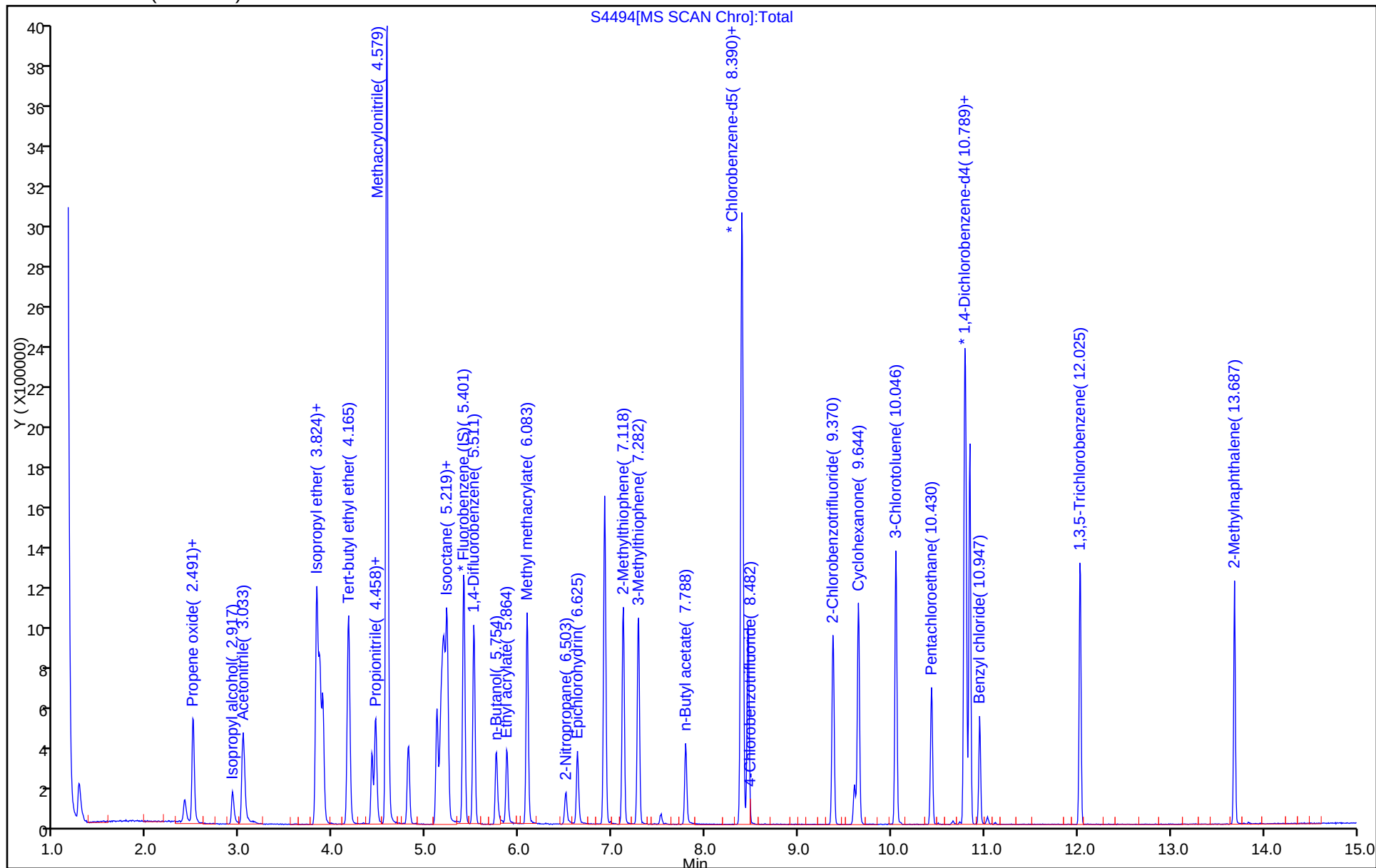
Dil. Factor: 1.0000

ALS Bottle#: 51

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4495.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Nov-2015 23:23:30 ALS Bottle#: 52 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 12
 Misc. Info.: 480-0048176-020
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:19 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:58:33

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	5.401	5.401	0.000	97	209025	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	406472	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	92	356707	25.0	25.0	
11 Chlorodifluoromethane	51	1.274	1.267	0.007	77	576487	50.0	49.8	
148 Ethanol	45	2.406	2.400	0.006	100	318993	2000.0	2104.4	
19 Propene oxide	58	2.497	2.497	0.000	95	691967	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	97	397707	500.0	490.0	
29 Acetonitrile	40	3.027	3.033	-0.006	99	455125	500.0	512.7	
36 Isopropyl ether	45	3.824	3.824	0.000	95	2039055	50.0	51.8	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	83	878998	50.0	52.0	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	64	357238	250.0	266.3	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	1771475	50.0	51.1	
42 Ethyl acetate	43	4.415	4.415	0.000	99	800483	100.0	100.8	
46 Propionitrile	54	4.458	4.458	0.000	97	993532	500.0	500.9	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	3928455	500.0	507.5	
152 Isooctane	57	5.170	5.170	0.000	97	1961569	50.0	51.9	
147 t-Amyl alcohol	59	5.194	5.194	0.000	72	459841	500.0	538.3	
56 Tert-amyl methyl ether	73	5.225	5.225	0.000	85	1287281	50.0	51.4	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	1256232	50.0	49.0	
60 n-Butanol	56	5.754	5.754	0.000	89	429868	1250.0	1785.3	
142 Ethyl acrylate	55	5.864	5.864	0.000	98	783679	50.0	56.2	
63 Methyl methacrylate	41	6.083	6.083	0.000	91	1109966	100.0	113.0	
70 2-Nitropropane	43	6.497	6.497	0.000	97	232548	100.0	114.0	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	599482	500.0	504.6	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	1323308	50.0	52.9	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	1526674	50.0	59.8	
155 n-Butyl acetate	43	7.788	7.788	0.000	97	605986	50.0	56.4	
146 1-Chlorohexane	55	8.384	8.384	0.000	80	557444	50.0	45.1	
85 3-Chlorobenzotrifluoride	180	8.396	8.402	-0.006	87	541978	50.0	49.2	
86 4-Chlorobenzotrifluoride	180	8.457	8.463	-0.006	94	513195	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.370	9.376	-0.006	93	548172	50.0	49.7	
96 Cyclohexanone	55	9.602	9.602	0.000	93	192818	500.0	541.8	
104 3-Chlorotoluene	126	10.046	10.046	0.000	98	466640	50.0	50.7	
108 Pentachloroethane	167	10.430	10.430	0.000	81	199832	50.0	51.8	
114 Dicyclopentadiene	66	10.801	10.801	0.000	98	2007907	50.0	48.4	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	55	1798706	50.0	52.8	
150 Benzyl chloride	126	10.947	10.947	0.000	99	145474	50.0	66.3	
118 1,3,5-Trichlorobenzene	180	12.025	12.031	-0.006	95	652209	50.0	50.6	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	975531	50.0	66.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00039	Amount Added: 25.00	Units: uL
2MTP_WRK_00048	Amount Added: 25.00	Units: uL
3MTP_WRK_00050	Amount Added: 25.00	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4495.D

Injection Date: 09-Nov-2015 23:23:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 12

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

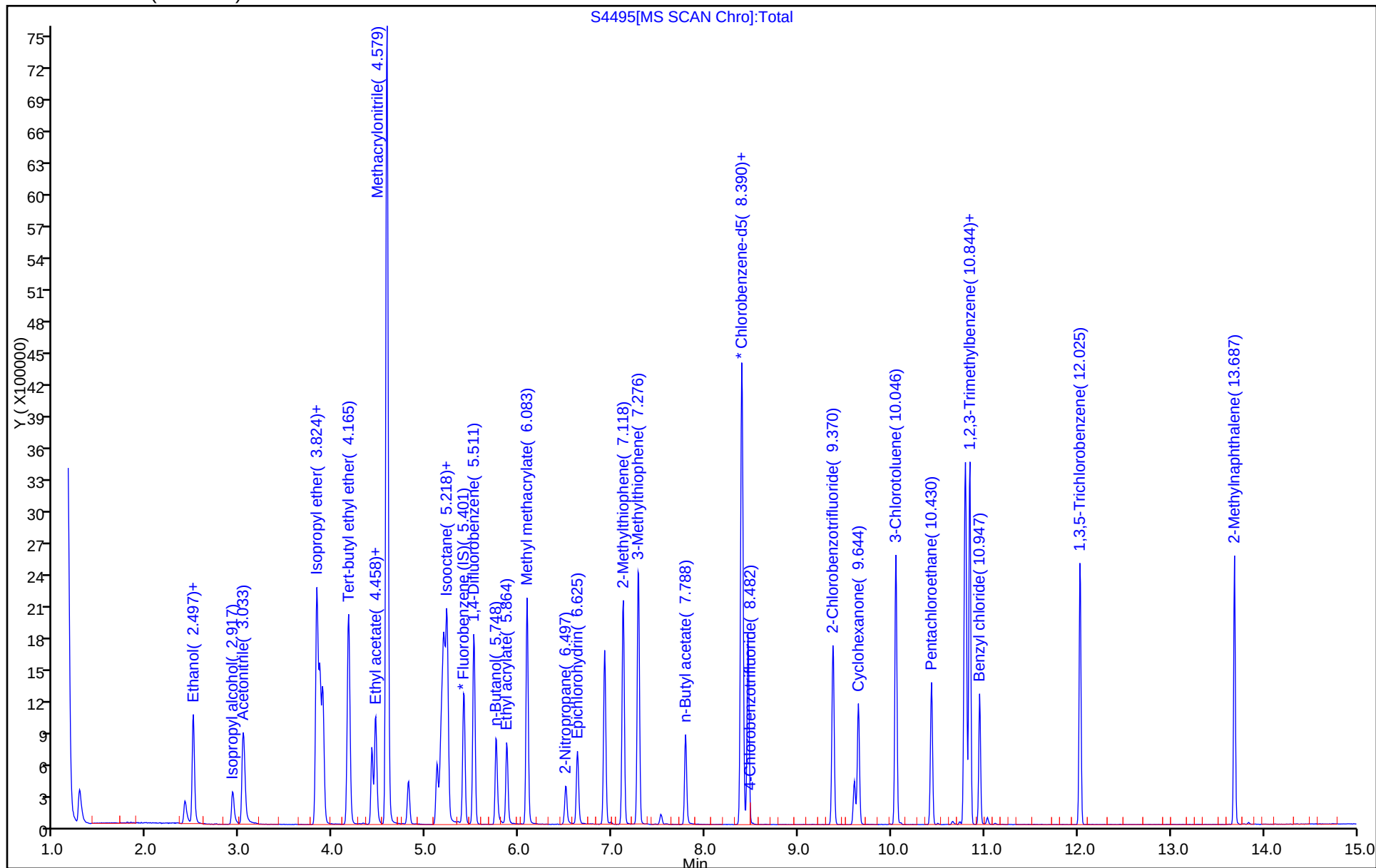
Dil. Factor: 1.0000

ALS Bottle#: 52

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Nov-2015 23:46:30 ALS Bottle#: 53 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 13
 Misc. Info.: 480-0048176-021
 Operator ID: LH Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub33
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Nov-2015 15:39:21 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: HillL

Date: 10-Nov-2015 13:58:48

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	5.407	5.401	0.006	97	211577	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	65	403501	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	68	363355	25.0	25.0	
11 Chlorodifluoromethane	51	1.274	1.267	0.007	79	1397540	100.0	119.3	
148 Ethanol	45	2.412	2.400	0.012	100	584539	4000.0	3807.6	
19 Propene oxide	58	2.491	2.497	-0.006	95	1415841	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	98	766680	1000.0	933.2	
29 Acetonitrile	40	3.027	3.033	-0.006	99	870915	1000.0	974.0	
36 Isopropyl ether	45	3.824	3.824	0.000	96	4284509	100.0	107.4	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	83	2052599	100.0	119.9	
38 1,1-Dimethoxyethane	75	3.885	3.891	-0.006	65	747469	500.0	550.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	3695877	100.0	105.4	
42 Ethyl acetate	43	4.415	4.415	0.000	99	1680605	200.0	209.1	
46 Propionitrile	54	4.457	4.458	-0.001	97	1970409	1000.0	981.5	
47 Methacrylonitrile	41	4.579	4.579	0.000	95	7228426	1000.0	922.6	
152 Isooctane	57	5.170	5.170	0.000	97	4497677	100.0	117.6	
147 t-Amyl alcohol	59	5.194	5.194	0.000	78	929696	1000.0	1075.2	
56 Tert-amyl methyl ether	73	5.225	5.225	0.000	87	2704076	100.0	106.7	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	2704086	100.0	104.3	
60 n-Butanol	56	5.748	5.754	-0.006	91	870978	2500.0	3573.6	
142 Ethyl acrylate	55	5.864	5.864	0.000	98	1676303	100.0	118.7	
63 Methyl methacrylate	41	6.083	6.083	0.000	89	2249415	200.0	226.3	
70 2-Nitropropane	43	6.497	6.497	0.000	97	575265	200.0	276.7	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	1215531	1000.0	1008.0	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	2670528	100.0	104.9	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	3137582	100.0	120.6	
155 n-Butyl acetate	43	7.788	7.788	0.000	98	1314361	100.0	120.8	
146 1-Chlorohexane	55	8.384	8.384	0.000	80	1285230	100.0	105.6	
85 3-Chlorobenzotrifluoride	180	8.402	8.402	0.000	90	1220512	100.0	108.9	
86 4-Chlorobenzotrifluoride	180	8.463	8.463	0.000	95	1179178	100.0	110.4	

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	9.370	9.376	-0.006	92	1237618	100.0	110.2	
96 Cyclohexanone	55	9.602	9.602	0.000	93	413014	1000.0	1139.3	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	992069	100.0	105.9	
108 Pentachloroethane	167	10.430	10.430	0.000	84	452570	100.0	114.3	
114 Dicyclopentadiene	66	10.801	10.801	0.000	98	4420694	100.0	104.5	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	65	3659898	100.0	105.5	
150 Benzyl chloride	126	10.947	10.947	0.000	99	337894	100.0	155.1	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	1384374	100.0	105.3	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	2064829	100.0	139.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00039	Amount Added: 50.00	Units: uL
2MTP_WRK_00048	Amount Added: 50.00	Units: uL
3MTP_WRK_00050	Amount Added: 50.00	Units: uL
S_8260_IS_00123	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D

Injection Date: 09-Nov-2015 23:46:30

Instrument ID: HP5973S

Operator ID: LH

Lims ID: IC 13

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

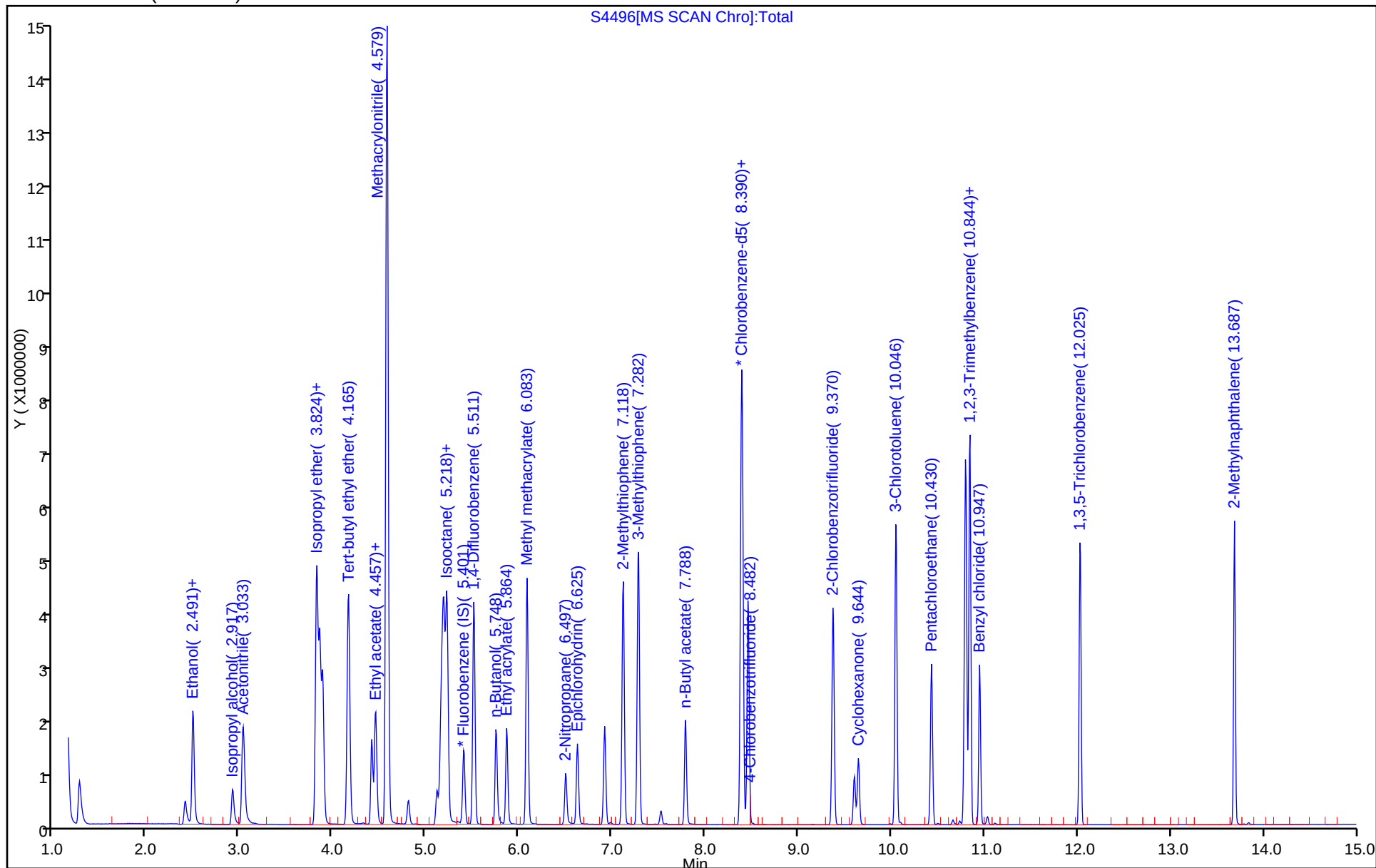
Dil. Factor: 1.0000

ALS Bottle#: 53

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCVIS 480-275144/4 Calibration Date: 11/16/2015 09:43

Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00

Lab File ID: S4773.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	1.194	1.214	0.1000	25.4	25.0	1.7	50.0
Chloromethane	Ave	2.128	2.087	0.1000	24.5	25.0	-1.9	20.0
Vinyl chloride	Ave	1.271	1.203	0.1000	23.7	25.0	-5.3	20.0
Butadiene	Ave	1.506	1.516		25.2	25.0	0.7	20.0
Bromomethane	Ave	0.3195	0.2108	0.1000	16.5	25.0	-34.0	50.0
Chloroethane	Lin1		0.5705	0.1000	24.3	25.0	-2.7	50.0
Dichlorofluoromethane	Ave	1.161	1.239		26.7	25.0	6.7	20.0
Trichlorofluoromethane	Ave	1.180	1.270	0.1000	26.9	25.0	7.6	20.0
Ethyl ether	Ave	1.375	1.218		22.1	25.0	-11.4	20.0
Acrolein	Ave	0.2982	0.2567		108	125	-13.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9667	1.002	0.1000	25.9	25.0	3.6	20.0
1,1-Dichloroethene	Ave	0.9507	0.9145	0.1000	24.0	25.0	-3.8	20.0
Acetone	Ave	0.5196	0.5356	0.1000	129	125	3.1	50.0
Iodomethane	Lin1		1.270		25.2	25.0	0.9	20.0
Carbon disulfide	Ave	2.420	2.245	0.1000	23.2	25.0	-7.2	20.0
Allyl chloride	Ave	2.074	2.105		25.4	25.0	1.5	20.0
Methyl acetate	Ave	1.325	1.221	0.1000	115	125	-7.9	50.0
Methylene Chloride	Lin1		1.004	0.1000	24.2	25.0	-3.3	20.0
2-Methyl-2-propanol	Ave	0.1483	0.1286		217	250	-13.3	50.0
Methyl tert-butyl ether	Ave	2.907	2.686	0.1000	23.1	25.0	-7.6	20.0
trans-1,2-Dichloroethene	Ave	0.9512	0.9624	0.1000	25.3	25.0	1.2	20.0
Acrylonitrile	Ave	0.6769	0.6180		228	250	-8.7	20.0
Hexane	Ave	2.402	2.247		23.4	25.0	-6.5	20.0
1,1-Dichloroethane	Ave	2.332	2.204	0.2000	23.6	25.0	-5.5	20.0
Vinyl acetate	Ave	3.167	3.183		50.3	50.0	0.5	20.0
2,2-Dichloropropane	Ave	0.8753	0.8127		23.2	25.0	-7.2	20.0
cis-1,2-Dichloroethene	Ave	1.091	1.058	0.1000	24.2	25.0	-3.1	20.0
2-Butanone (MEK)	Ave	0.7562	0.7291	0.1000	121	125	-3.6	20.0
Chlorobromomethane	Ave	0.5070	0.4947		24.4	25.0	-2.4	20.0
Tetrahydrofuran	Ave	0.4893	0.4411		45.1	50.0	-9.8	20.0
Chloroform	Ave	1.871	1.825	0.2000	24.4	25.0	-2.5	20.0
1,1,1-Trichloroethane	Ave	1.253	1.258	0.1000	25.1	25.0	0.4	20.0
Cyclohexane	Ave	2.488	2.491	0.1000	25.0	25.0	0.1	20.0
Carbon tetrachloride	Ave	1.226	1.152	0.1000	23.5	25.0	-6.0	20.0
1,1-Dichloropropene	Ave	1.496	1.436		24.0	25.0	-4.0	20.0
Benzene	Ave	4.239	4.091	0.5000	24.1	25.0	-3.5	20.0
Isobutyl alcohol	Ave	0.0734	0.0663		564	625	-9.8	50.0
1,2-Dichloroethane	Ave	2.008	1.905	0.1000	23.7	25.0	-5.1	20.0
n-Heptane	Ave	2.400	2.435		25.4	25.0	1.5	20.0
Trichloroethene	Ave	1.033	1.001	0.2000	24.2	25.0	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCVIS 480-275144/4 Calibration Date: 11/16/2015 09:43

Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00

Lab File ID: S4773.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	1.751	1.762	0.1000	25.2	25.0	0.6	20.0
1,2-Dichloropropane	Ave	1.207	1.202	0.1000	24.9	25.0	-0.5	20.0
Dibromomethane	Ave	0.6186	0.5694	0.1000	23.0	25.0	-7.9	20.0
1,4-Dioxane	Ave	0.0061	0.0063		516	500	3.1	50.0
Bromodichloromethane	Ave	1.200	1.131	0.2000	23.6	25.0	-5.8	20.0
2-Chloroethyl vinyl ether	Ave	0.7608	0.7161		23.5	25.0	-5.9	20.0
cis-1,3-Dichloropropene	Ave	1.438	1.453	0.2000	25.2	25.0	1.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7556	0.7724	0.1000	128	125	2.2	20.0
Toluene	Ave	1.345	1.324	0.4000	24.6	25.0	-1.5	20.0
trans-1,3-Dichloropropene	Ave	0.6943	0.7082	0.1000	25.5	25.0	2.0	20.0
Ethyl methacrylate	Ave	0.6022	0.6299		26.2	25.0	4.6	20.0
1,1,2-Trichloroethane	Ave	0.3905	0.4040	0.1000	25.9	25.0	3.4	20.0
Tetrachloroethene	Ave	0.5487	0.5699	0.2000	26.0	25.0	3.9	20.0
1,3-Dichloropropane	Ave	0.8936	0.8850		24.8	25.0	-1.0	20.0
2-Hexanone	Ave	0.5253	0.5668	0.1000	135	125	7.9	20.0
Dibromochloromethane	Lin1		0.3985	0.1000	22.5	25.0	-10.0	20.0
1,2-Dibromoethane	Ave	0.4720	0.4701		24.9	25.0	-0.4	20.0
Chlorobenzene	Ave	1.543	1.531	0.5000	24.8	25.0	-0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4590	0.4828		26.3	25.0	5.2	20.0
Ethylbenzene	Ave	2.487	2.538	0.1000	25.5	25.0	2.0	20.0
m,p-Xylene	Ave	0.9857	1.016	0.1000	25.8	25.0	3.1	20.0
o-Xylene	Ave	0.9149	0.9465	0.3000	25.9	25.0	3.4	20.0
Styrene	Ave	1.455	1.600	0.3000	27.5	25.0	9.9	20.0
Bromoform	Lin1		0.1923	0.1000	21.3	25.0	-15.0	50.0
Isopropylbenzene	Ave	2.592	2.761	0.1000	26.6	25.0	6.5	20.0
Bromobenzene	Ave	0.6258	0.6186		24.7	25.0	-1.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6577	0.6578	0.3000	25.0	25.0	0.0	20.0
1,2,3-Trichloropropane	Ave	0.2199	0.2194		24.9	25.0	-0.2	20.0
N-Propylbenzene	Ave	3.216	3.325		25.8	25.0	3.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2988		22.2	25.0	-11.1	50.0
2-Chlorotoluene	Ave	0.6405	0.6756		26.4	25.0	5.5	20.0
1,3,5-Trimethylbenzene	Ave	2.296	2.360		25.7	25.0	2.8	20.0
4-Chlorotoluene	Ave	0.6630	0.7137		26.9	25.0	7.6	20.0
tert-Butylbenzene	Ave	0.5218	0.5287		25.3	25.0	1.3	20.0
1,2,4-Trimethylbenzene	Ave	2.290	2.466		26.9	25.0	7.7	20.0
sec-Butylbenzene	Ave	2.798	3.002		26.8	25.0	7.3	20.0
1,3-Dichlorobenzene	Ave	1.266	1.292	0.6000	25.5	25.0	2.0	20.0
4-Isopropyltoluene	Ave	2.378	2.624		27.6	25.0	10.3	20.0
1,4-Dichlorobenzene	Ave	1.309	1.317	0.5000	25.1	25.0	0.6	20.0
n-Butylbenzene	Ave	2.169	2.373		27.4	25.0	9.4	20.0
1,2-Dichlorobenzene	Ave	1.233	1.246	0.4000	25.3	25.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-275144/4 Calibration Date: 11/16/2015 09:43
 Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
 Lab File ID: S4773.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	0.1011	0.0936	0.0500	23.1	25.0	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8354	0.8621	0.2000	25.8	25.0	3.2	20.0
Hexachlorobutadiene	Ave	0.3969	0.4046		25.5	25.0	1.9	20.0
Naphthalene	Ave	1.887	2.069		27.4	25.0	9.7	20.0
1,2,3-Trichlorobenzene	Ave	0.7629	0.8424		27.6	25.0	10.4	20.0
Dibromofluoromethane (Surr)	Ave	1.040	1.005		26.3	27.2	-3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7378		25.8	27.2	-5.0	20.0
Toluene-d8 (Surr)	Ave	2.219	2.171		26.6	27.2	-2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.6184		27.5	27.2	1.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4773.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 16-Nov-2015 09:43:30 ALS Bottle#: 62 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0048379-004
 Operator ID: GTG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 10:15:29 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK031

First Level Reviewer: goliszekg

Date: 16-Nov-2015 10:15:29

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	5.401	5.401	0.000	96	211325	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	393862	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	72	359380	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	62	230865	27.2	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	169481	27.2	25.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	929413	27.2	26.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	264749	27.2	27.5	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	84	256639	25.0	25.4	
12 Chloromethane	50	1.407	1.407	0.000	88	441104	25.0	24.5	
13 Vinyl chloride	62	1.505	1.505	0.000	81	254282	25.0	23.7	
151 Butadiene	54	1.535	1.535	0.000	92	320452	25.0	25.2	
14 Bromomethane	94	1.797	1.797	0.000	83	44550	25.0	16.5	
15 Chloroethane	64	1.906	1.906	0.000	86	120569	25.0	24.3	
16 Dichlorofluoromethane	67	2.126	2.126	0.000	76	261831	25.0	26.7	
17 Trichlorofluoromethane	101	2.138	2.138	0.000	71	268386	25.0	26.9	
18 Ethyl ether	59	2.418	2.418	0.000	97	257436	25.0	22.1	
20 Acrolein	56	2.582	2.582	0.000	94	271210	125.0	107.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	55	211716	25.0	25.9	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	79	193261	25.0	24.0	
23 Acetone	43	2.734	2.734	0.000	98	565969	125.0	128.9	
25 Iodomethane	142	2.814	2.814	0.000	97	268486	25.0	25.2	
26 Carbon disulfide	76	2.850	2.850	0.000	99	474379	25.0	23.2	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	83	444738	25.0	25.4	
27 Methyl acetate	43	3.039	3.039	0.000	97	1289640	125.0	115.1	
30 Methylene Chloride	84	3.136	3.136	0.000	87	212109	25.0	24.2	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	91	271817	250.0	216.8	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	93	567551	25.0	23.1	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	84	203371	25.0	25.3	
33 Acrylonitrile	53	3.404	3.404	0.000	97	1306075	250.0	228.3	
35 Hexane	57	3.593	3.593	0.000	95	474775	25.0	23.4	

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	3.788	3.788	0.000	86	465714	25.0	23.6	
37 Vinyl acetate	43	3.842	3.842	0.000	97	1345241	50.0	50.3	
44 2,2-Dichloropropane	77	4.311	4.311	0.000	86	171734	25.0	23.2	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	223480	25.0	24.2	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	91	770428	125.0	120.5	
48 Chlorobromomethane	128	4.579	4.579	0.000	83	104536	25.0	24.4	
49 Tetrahydrofuran	42	4.609	4.609	0.000	92	186444	50.0	45.1	
50 Chloroform	83	4.652	4.652	0.000	82	385641	25.0	24.4	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	88	265780	25.0	25.1	
52 Cyclohexane	56	4.804	4.804	0.000	94	526429	25.0	25.0	
55 Carbon tetrachloride	117	4.926	4.926	0.000	70	243391	25.0	23.5	
54 1,1-Dichloropropene	75	4.938	4.938	0.000	85	303362	25.0	24.0	
53 Isobutyl alcohol	43	5.133	5.133	0.000	60	350061	625.0	563.9	
57 Benzene	78	5.133	5.133	0.000	93	864596	25.0	24.1	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	71	402584	25.0	23.7	
59 n-Heptane	43	5.340	5.340	0.000	96	514625	25.0	25.4	
62 Trichloroethene	95	5.748	5.748	0.000	90	211545	25.0	24.2	
64 Methylcyclohexane	83	5.888	5.888	0.000	95	372351	25.0	25.2	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	85	253962	25.0	24.9	
67 Dibromomethane	93	6.107	6.107	0.000	89	120332	25.0	23.0	
66 1,4-Dioxane	88	6.125	6.125	0.000	80	49397	500.0	515.7	
68 Dichlorobromomethane	83	6.259	6.259	0.000	91	238903	25.0	23.6	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	88	151330	25.0	23.5	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	83	306950	25.0	25.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	98	1521144	125.0	127.8	
74 Toluene	92	6.984	6.984	0.000	96	521590	25.0	24.6	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	92	278948	25.0	25.5	
75 Ethyl methacrylate	69	7.306	7.306	0.000	93	248106	25.0	26.2	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	159105	25.0	25.9	
81 Tetrachloroethene	166	7.526	7.526	0.000	88	224453	25.0	26.0	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	96	348578	25.0	24.8	
80 2-Hexanone	43	7.666	7.666	0.000	100	1116104	125.0	134.9	
83 Chlorodibromomethane	129	7.830	7.830	0.000	85	156952	25.0	22.5	
84 Ethylene Dibromide	107	7.940	7.940	0.000	98	185156	25.0	24.9	
87 Chlorobenzene	112	8.427	8.427	0.000	90	603032	25.0	24.8	
88 Ethylbenzene	91	8.524	8.524	0.000	98	999515	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	8.524	8.524	0.000	38	190136	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	400304	25.0	25.8	
91 o-Xylene	106	9.072	9.072	0.000	97	372774	25.0	25.9	
92 Styrene	104	9.096	9.096	0.000	93	629981	25.0	27.5	
95 Bromoform	173	9.334	9.334	0.000	92	75736	25.0	21.3	
94 Isopropylbenzene	105	9.462	9.462	0.000	97	992132	25.0	26.6	
101 Bromobenzene	156	9.796	9.796	0.000	96	222298	25.0	24.7	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	79	236415	25.0	25.0	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	73	78829	25.0	24.9	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.888	0.000	32	107363	25.0	22.2	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1194790	25.0	25.8	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	242791	25.0	26.4	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	96	848257	25.0	25.7	
105 4-Chlorotoluene	126	10.095	10.095	0.000	99	256476	25.0	26.9	
106 tert-Butylbenzene	134	10.387	10.387	0.000	94	190003	25.0	25.3	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	886120	25.0	26.9	

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	10.594	10.594	0.000	95	1078830	25.0	26.8	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	464158	25.0	25.5	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	97	942833	25.0	27.6	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	90	473139	25.0	25.1	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	852942	25.0	27.4	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	90	447648	25.0	25.3	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	60	33638	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	93	309829	25.0	25.8	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	93	145418	25.0	25.5	
121 Naphthalene	128	12.773	12.773	0.000	98	743545	25.0	27.4	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	94	302734	25.0	27.6	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4773.D

Injection Date: 16-Nov-2015 09:43:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

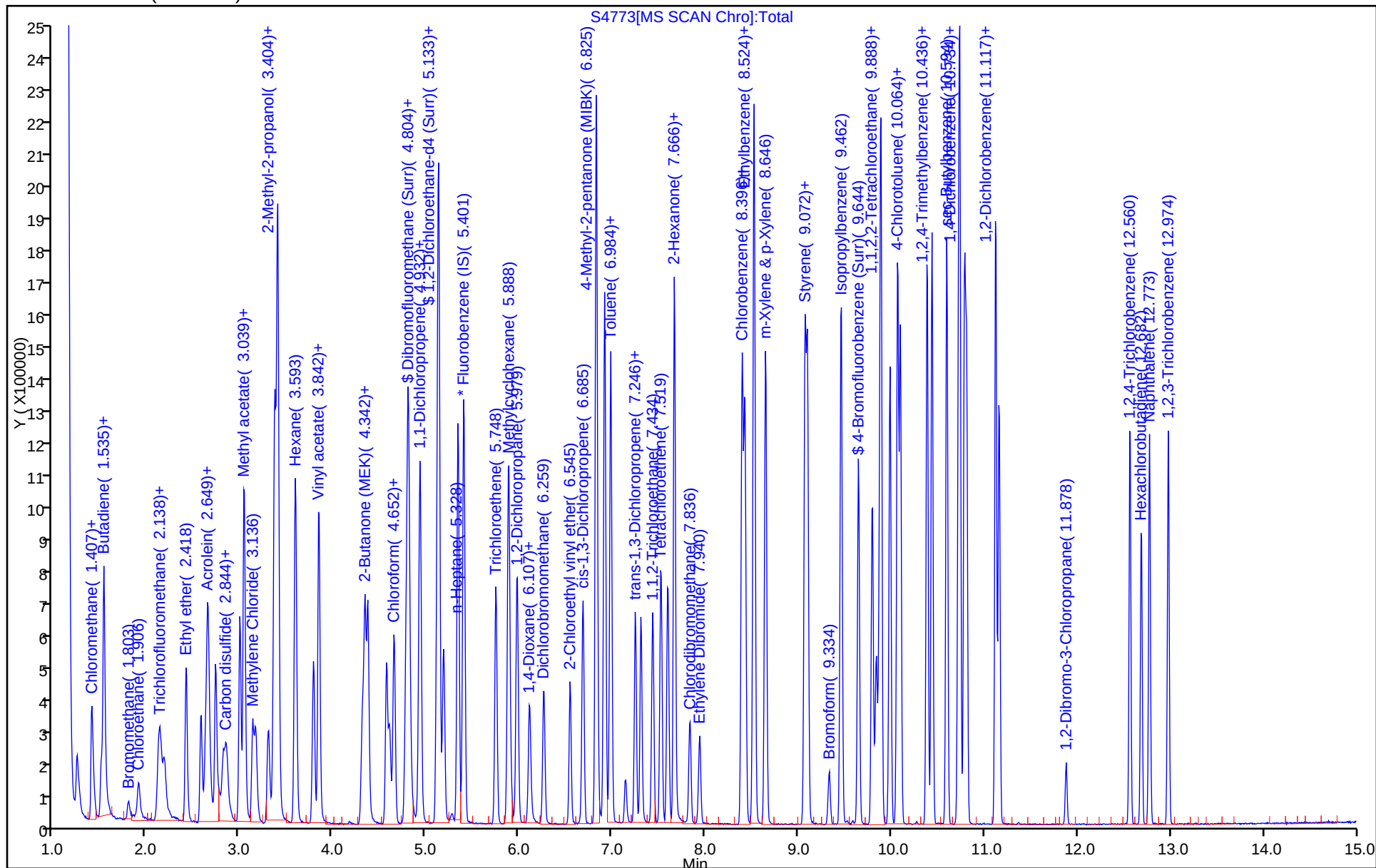
Dil. Factor: 1.0000

ALS Bottle#: 62

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
SDG No.: _____
Lab Sample ID: CCV 480-275144/5 Calibration Date: 11/16/2015 10:06
Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
Lab File ID: S4774.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	1.040	0.9942		26.0	27.2	-4.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7793		27.3	27.2	0.3	20.0
Toluene-d8 (Surr)	Ave	2.219	2.096		25.7	27.2	-5.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.5948		26.5	27.2	-2.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4774.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2015 10:06:30 ALS Bottle#: 63 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0048379-005
 Operator ID: GTG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 10:52:33 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK031

First Level Reviewer: goliszekg

Date: 16-Nov-2015 10:52:33

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	5.401	5.401	0.000	97	198384	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	391089	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	89	339351	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	69	214378	27.2	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	168047	27.2	27.3	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	891009	27.2	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	252847	27.2	26.5	
11 Chlorodifluoromethane	51	1.267	1.267	0.000	78	289080	25.0	26.3	
148 Ethanol	45	2.412	2.412	0.000	100	175691	1000.0	1222.3	
19 Propene oxide	58	2.497	2.497	0.000	95	340039	NC	NC	
24 Isopropyl alcohol	45	2.923	2.923	0.000	96	198786	250.0	258.0	
29 Acetonitrile	40	3.027	3.027	0.000	100	219725	250.0	258.2	
36 Isopropyl ether	45	3.824	3.824	0.000	96	992615	25.0	26.5	
40 2-Chloro-1,3-butadiene	53	3.861	3.861	0.000	84	450330	25.0	28.1	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	64	156900	125.0	123.2	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	849942	25.0	25.9	
42 Ethyl acetate	43	4.415	4.415	0.000	99	399416	50.0	53.0	
46 Propionitrile	54	4.457	4.457	0.000	98	489986	250.0	260.3	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	2059746	250.0	280.4	
152 Isooctane	57	5.170	5.170	0.000	95	1051558	25.0	29.3	
147 t-Amyl alcohol	59	5.194	5.194	0.000	80	215404	250.0	265.7	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	84	625899	25.0	26.3	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	646283	25.0	26.6	
60 n-Butanol	56	5.754	5.754	0.000	92	189051	625.0	827.3	
142 Ethyl acrylate	55	5.864	5.864	0.000	93	375768	25.0	28.4	
63 Methyl methacrylate	41	6.083	6.083	0.000	88	542574	50.0	58.2	
70 2-Nitropropane	43	6.497	6.497	0.000	99	90233	50.0	46.5	
71 Epichlorohydrin	57	6.625	6.625	0.000	97	289386	250.0	258.0	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	617324	25.0	26.0	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	699622	25.0	28.8	

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	7.787	7.787	0.000	97	285823	25.0	28.0	
146 1-Chlorohexane	55	8.384	8.384	0.000	87	308190	25.0	25.6	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	75	297260	25.0	28.4	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	92	275239	25.0	27.6	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	91	282366	25.0	26.9	
96 Cyclohexanone	55	9.602	9.602	0.000	90	96111	250.0	283.9	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	234527	25.0	26.8	
108 Pentachloroethane	167	10.430	10.430	0.000	75	93125	25.0	25.8	
114 Dicyclopentadiene	66	10.801	10.801	0.000	98	1012447	25.0	25.6	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	59	893557	25.0	27.6	
150 Benzyl chloride	126	10.947	10.947	0.000	98	55959	25.0	26.5	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	336113	25.0	27.4	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	94	433853	25.0	31.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4774.D

Injection Date: 16-Nov-2015 10:06:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: CCV

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

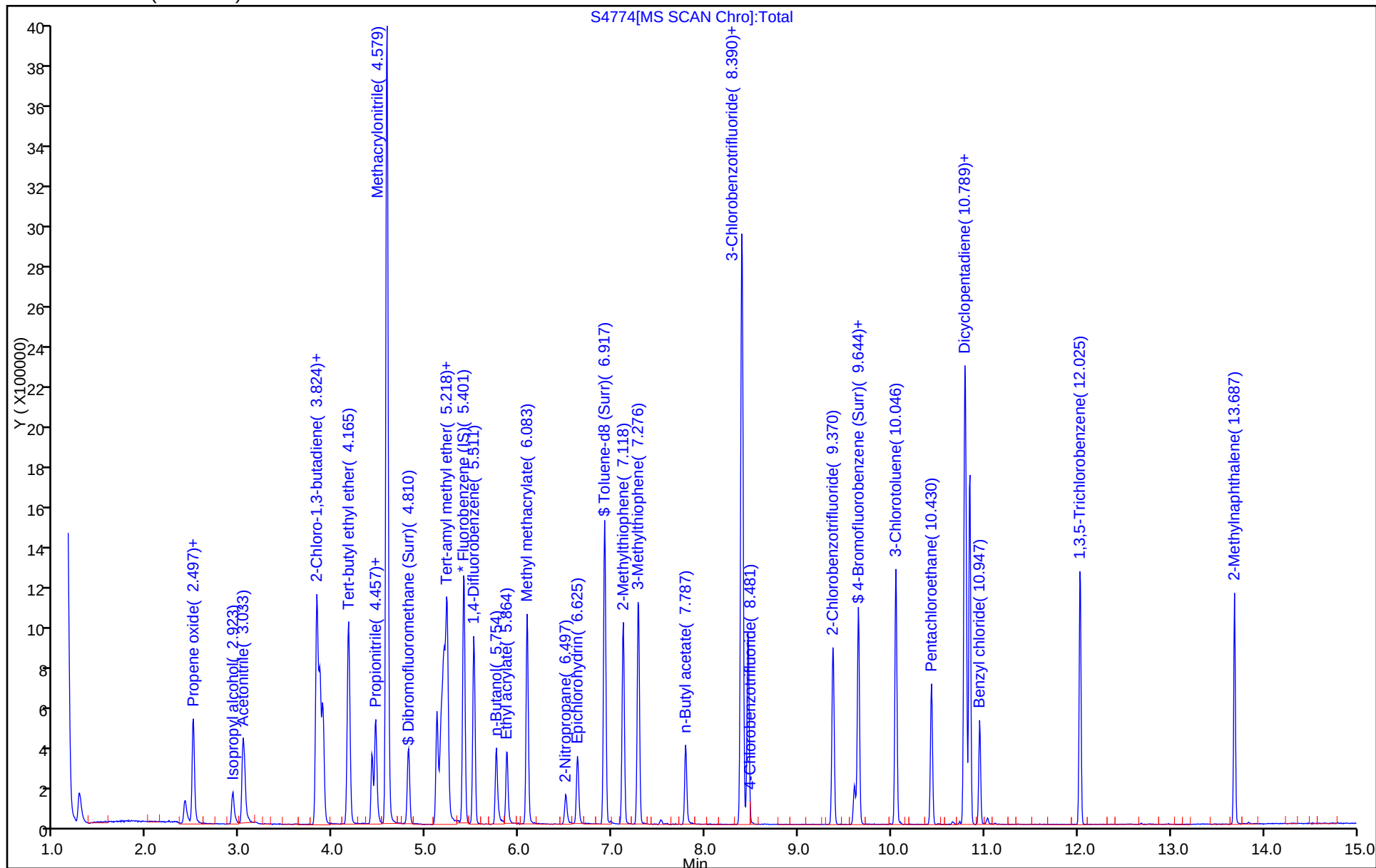
Dil. Factor: 1.0000

ALS Bottle#: 63

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.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCV 480-275144/5 Calibration Date: 11/16/2015 10:06

Instrument ID: HP5973S Calib Start Date: 11/09/2015 21:31

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 23:46

Lab File ID: S4774.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	1.384	1.457		26.3	25.0	5.3	20.0
Ethanol	Lin1		0.0221		1220	1000	22.2*	20.0
Isopropyl alcohol	Ave	0.0971	0.1002		258	250	3.2	20.0
Acetonitrile	Lin1		0.1108		258	250	3.3	20.0
Isopropyl ether	Ave	4.712	5.004		26.5	25.0	6.2	20.0
Chloroprene	Ave	2.023	2.270		28.1	25.0	12.2	20.0
1,1-Dimethoxyethane	Ave	0.1605	0.1582		123	125	-1.4	20.0
Tert-butyl ethyl ether	Ave	4.143	4.284		25.9	25.0	3.4	20.0
Ethyl acetate	Ave	0.9499	1.007		53.0	50.0	6.0	20.0
Propionitrile	Ave	0.2372	0.2470		260	250	4.1	20.0
Methacrylonitrile	Ave	0.9258	1.038		280	250	12.2	20.0
Isooctane	Ave	4.518	5.301		29.3	25.0	17.3	20.0
t-Amyl alcohol	Ave	0.1022	0.1086		266	250	6.3	20.0
Tert-amyl methyl ether	Ave	2.994	3.155		26.3	25.0	5.4	20.0
1,4-Difluorobenzene	Ave	3.065	3.258		26.6	25.0	6.3	20.0
n-Butanol	Ave	0.0288	0.0381		827	625	32.4*	20.0
Ethyl acrylate	Ave	1.669	1.894		28.4	25.0	13.5	20.0
Methyl methacrylate	Ave	1.175	1.367		58.2	50.0	16.4	20.0
2-Nitropropane	Ave	0.1430	0.1330		46.5	50.0	-7.0	20.0
Epichlorohydrin	Lin1		0.1459		258	250	3.2	20.0
2-Methylthiophene	Ave	1.752	1.819		26.0	25.0	3.8	20.0
3-Methylthiophene	Ave	1.790	2.062		28.8	25.0	15.2	20.0
n-Butyl acetate	Ave	1.286	1.441	0.1000	28.0	25.0	12.0	20.0
1-Chlorohexane	Lin1		0.7880		25.6	25.0	2.5	20.0
3-Chlorobenzotrifluoride	Ave	0.7714	0.8760		28.4	25.0	13.6	20.0
4-Chlorobenzotrifluoride	Ave	0.7347	0.8111		27.6	25.0	10.4	20.0
2-Chlorobenzotrifluoride	Ave	0.7726	0.8321		26.9	25.0	7.7	20.0
Cyclohexanone	Ave	0.0249	0.0283		284	250	13.5	20.0
3-Chlorotoluene	Ave	0.6448	0.6911		26.8	25.0	7.2	20.0
Pentachloroethane	Lin1		0.2744		25.8	25.0	3.0	20.0
Dicyclopentadiene	Ave	2.910	2.983		25.6	25.0	2.5	20.0
1,2,3-Trimethylbenzene	Ave	2.388	2.633		27.6	25.0	10.3	20.0
Benzyl chloride	Ave	0.1350	0.1431		26.5	25.0	6.0	20.0
1,3,5-Trichlorobenzene	Ave	0.9042	0.9905		27.4	25.0	9.5	20.0
2-Methylnaphthalene	Ave	1.022	1.278		31.3	25.0	25.1*	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4774.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2015 10:06:30 ALS Bottle#: 63 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0048379-005
 Operator ID: GTG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 10:52:33 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK031

First Level Reviewer: goliszekg

Date: 16-Nov-2015 10:52:33

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	5.401	5.401	0.000	97	198384	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	391089	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	89	339351	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	69	214378	27.2	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	168047	27.2	27.3	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	891009	27.2	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	252847	27.2	26.5	
11 Chlorodifluoromethane	51	1.267	1.267	0.000	78	289080	25.0	26.3	
148 Ethanol	45	2.412	2.412	0.000	100	175691	1000.0	1222.3	
19 Propene oxide	58	2.497	2.497	0.000	95	340039	NC	NC	
24 Isopropyl alcohol	45	2.923	2.923	0.000	96	198786	250.0	258.0	
29 Acetonitrile	40	3.027	3.027	0.000	100	219725	250.0	258.2	
36 Isopropyl ether	45	3.824	3.824	0.000	96	992615	25.0	26.5	
40 2-Chloro-1,3-butadiene	53	3.861	3.861	0.000	84	450330	25.0	28.1	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	64	156900	125.0	123.2	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	849942	25.0	25.9	
42 Ethyl acetate	43	4.415	4.415	0.000	99	399416	50.0	53.0	
46 Propionitrile	54	4.457	4.457	0.000	98	489986	250.0	260.3	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	2059746	250.0	280.4	
152 Isooctane	57	5.170	5.170	0.000	95	1051558	25.0	29.3	
147 t-Amyl alcohol	59	5.194	5.194	0.000	80	215404	250.0	265.7	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	84	625899	25.0	26.3	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	646283	25.0	26.6	
60 n-Butanol	56	5.754	5.754	0.000	92	189051	625.0	827.3	
142 Ethyl acrylate	55	5.864	5.864	0.000	93	375768	25.0	28.4	
63 Methyl methacrylate	41	6.083	6.083	0.000	88	542574	50.0	58.2	
70 2-Nitropropane	43	6.497	6.497	0.000	99	90233	50.0	46.5	
71 Epichlorohydrin	57	6.625	6.625	0.000	97	289386	250.0	258.0	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	617324	25.0	26.0	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	699622	25.0	28.8	

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	7.787	7.787	0.000	97	285823	25.0	28.0	
146 1-Chlorohexane	55	8.384	8.384	0.000	87	308190	25.0	25.6	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	75	297260	25.0	28.4	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	92	275239	25.0	27.6	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	91	282366	25.0	26.9	
96 Cyclohexanone	55	9.602	9.602	0.000	90	96111	250.0	283.9	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	234527	25.0	26.8	
108 Pentachloroethane	167	10.430	10.430	0.000	75	93125	25.0	25.8	
114 Dicyclopentadiene	66	10.801	10.801	0.000	98	1012447	25.0	25.6	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	59	893557	25.0	27.6	
150 Benzyl chloride	126	10.947	10.947	0.000	98	55959	25.0	26.5	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	336113	25.0	27.4	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	94	433853	25.0	31.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4774.D

Injection Date: 16-Nov-2015 10:06:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: CCV

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

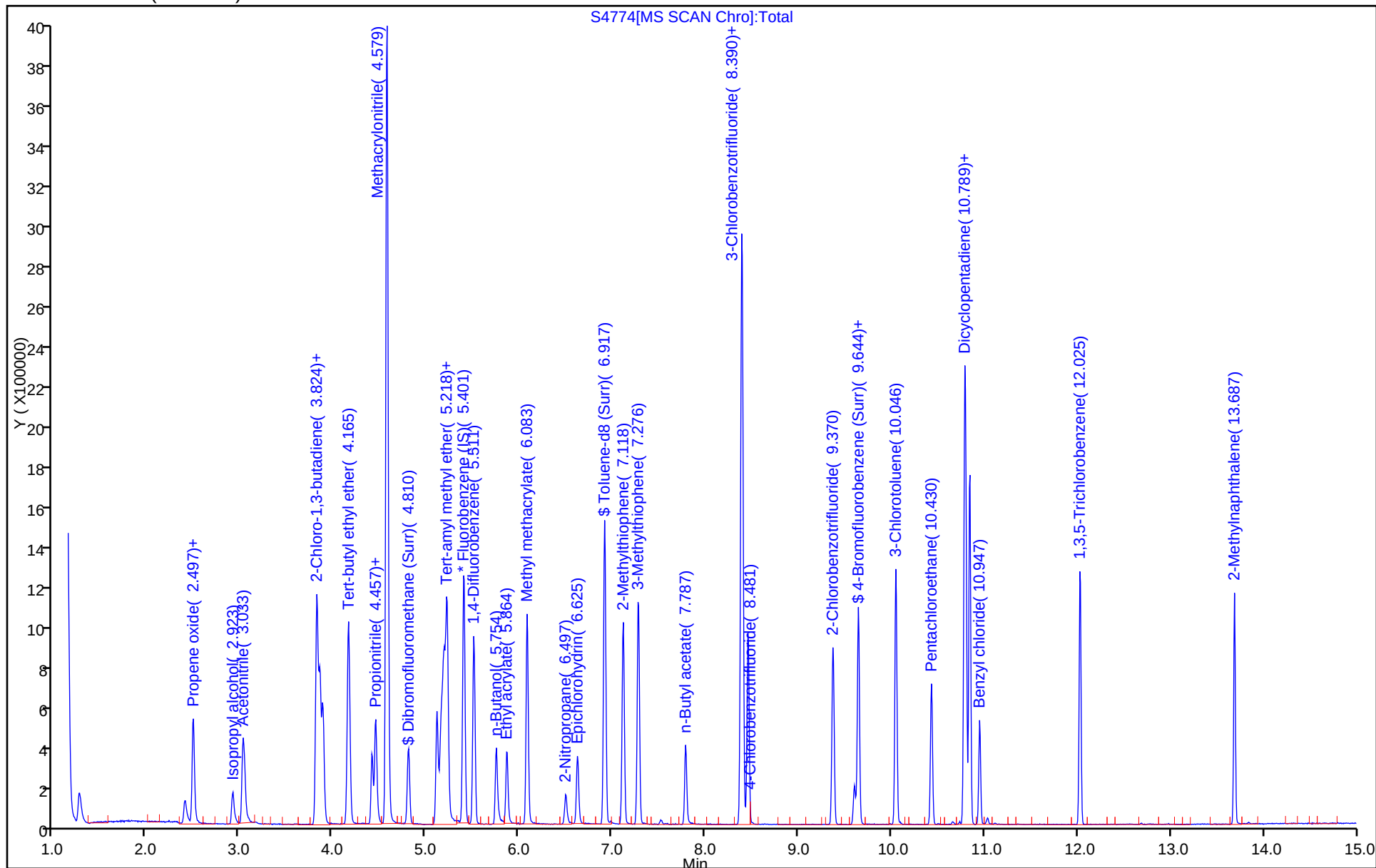
Dil. Factor: 1.0000

ALS Bottle#: 63

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.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCVIS 480-275311/2 Calibration Date: 11/16/2015 22:57

Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00

Lab File ID: S4805.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	1.194	1.120	0.1000	23.4	25.0	-6.2	50.0
Chloromethane	Ave	2.128	2.013	0.1000	23.6	25.0	-5.4	20.0
Vinyl chloride	Ave	1.271	1.283	0.1000	25.2	25.0	1.0	20.0
Butadiene	Ave	1.506	1.602		26.6	25.0	6.4	20.0
Bromomethane	Ave	0.3195	0.4068	0.1000	31.8	25.0	27.3	50.0
Chloroethane	Lin1		0.6943	0.1000	29.5	25.0	18.0	50.0
Dichlorofluoromethane	Ave	1.161	1.327		28.6	25.0	14.4	20.0
Trichlorofluoromethane	Ave	1.180	1.368	0.1000	29.0	25.0	16.0	20.0
Ethyl ether	Ave	1.375	1.180		21.5	25.0	-14.2	20.0
Acrolein	Ave	0.2982	0.2526		106	125	-15.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9667	1.009	0.1000	26.1	25.0	4.3	20.0
1,1-Dichloroethene	Ave	0.9507	0.8491	0.1000	22.3	25.0	-10.7	20.0
Acetone	Ave	0.5196	0.5318	0.1000	128	125	2.3	50.0
Iodomethane	Lin1		1.273		25.3	25.0	1.1	20.0
Carbon disulfide	Ave	2.420	2.213	0.1000	22.9	25.0	-8.6	20.0
Allyl chloride	Ave	2.074	2.087		25.2	25.0	0.6	20.0
Methyl acetate	Ave	1.325	1.184	0.1000	112	125	-10.7	50.0
Methylene Chloride	Lin1		0.9627	0.1000	23.2	25.0	-7.4	20.0
2-Methyl-2-propanol	Ave	0.1483	0.1235		208	250	-16.7	50.0
Methyl tert-butyl ether	Ave	2.907	2.624	0.1000	22.6	25.0	-9.7	20.0
trans-1,2-Dichloroethene	Ave	0.9512	0.9199	0.1000	24.2	25.0	-3.3	20.0
Acrylonitrile	Ave	0.6769	0.5991		221	250	-11.5	20.0
Hexane	Ave	2.402	2.095		21.8	25.0	-12.8	20.0
1,1-Dichloroethane	Ave	2.332	2.198	0.2000	23.6	25.0	-5.7	20.0
Vinyl acetate	Ave	3.167	3.074		48.5	50.0	-2.9	20.0
2,2-Dichloropropane	Ave	0.8753	0.8623		24.6	25.0	-1.5	20.0
cis-1,2-Dichloroethene	Ave	1.091	0.997	0.1000	22.8	25.0	-8.6	20.0
2-Butanone (MEK)	Ave	0.7562	0.7230	0.1000	120	125	-4.4	20.0
Chlorobromomethane	Ave	0.5070	0.5041		24.9	25.0	-0.6	20.0
Tetrahydrofuran	Ave	0.4893	0.4521		46.2	50.0	-7.6	20.0
Chloroform	Ave	1.871	1.789	0.2000	23.9	25.0	-4.4	20.0
1,1,1-Trichloroethane	Ave	1.253	1.271	0.1000	25.4	25.0	1.4	20.0
Cyclohexane	Ave	2.488	2.430	0.1000	24.4	25.0	-2.3	20.0
Carbon tetrachloride	Ave	1.226	1.180	0.1000	24.1	25.0	-3.7	20.0
1,1-Dichloropropene	Ave	1.496	1.409		23.5	25.0	-5.8	20.0
Isobutyl alcohol	Ave	0.0734	0.0662		563	625	-9.9	50.0
Benzene	Ave	4.239	4.105	0.5000	24.2	25.0	-3.1	20.0
1,2-Dichloroethane	Ave	2.008	1.924	0.1000	24.0	25.0	-4.2	20.0
n-Heptane	Ave	2.400	2.203		23.0	25.0	-8.2	20.0
Trichloroethene	Ave	1.033	0.9840	0.2000	23.8	25.0	-4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCVIS 480-275311/2 Calibration Date: 11/16/2015 22:57

Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00

Lab File ID: S4805.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	1.751	1.705	0.1000	24.3	25.0	-2.6	20.0
1,2-Dichloropropane	Ave	1.207	1.173	0.1000	24.3	25.0	-2.9	20.0
Dibromomethane	Ave	0.6186	0.5772	0.1000	23.3	25.0	-6.7	20.0
1,4-Dioxane	Ave	0.0061	0.0054		440	500	-12.0	50.0
Bromodichloromethane	Ave	1.200	1.158	0.2000	24.1	25.0	-3.5	20.0
2-Chloroethyl vinyl ether	Ave	0.7608	0.7123		23.4	25.0	-6.4	20.0
cis-1,3-Dichloropropene	Ave	1.438	1.454	0.2000	25.3	25.0	1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7556	0.7813	0.1000	129	125	3.4	20.0
Toluene	Ave	1.345	1.306	0.4000	24.3	25.0	-2.8	20.0
trans-1,3-Dichloropropene	Ave	0.6943	0.6845	0.1000	24.6	25.0	-1.4	20.0
Ethyl methacrylate	Ave	0.6022	0.6156		25.6	25.0	2.2	20.0
1,1,2-Trichloroethane	Ave	0.3905	0.3909	0.1000	25.0	25.0	0.1	20.0
Tetrachloroethene	Ave	0.5487	0.5385	0.2000	24.5	25.0	-1.9	20.0
1,3-Dichloropropane	Ave	0.8936	0.8687		24.3	25.0	-2.8	20.0
2-Hexanone	Ave	0.5253	0.5638	0.1000	134	125	7.3	20.0
Dibromochloromethane	Lin1		0.4046	0.1000	22.8	25.0	-8.6	20.0
1,2-Dibromoethane	Ave	0.4720	0.4686		24.8	25.0	-0.7	20.0
Chlorobenzene	Ave	1.543	1.517	0.5000	24.6	25.0	-1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4590	0.4729		25.8	25.0	3.0	20.0
Ethylbenzene	Ave	2.487	2.491	0.1000	25.0	25.0	0.1	20.0
m,p-Xylene	Ave	0.9857	0.997	0.1000	25.3	25.0	1.2	20.0
o-Xylene	Ave	0.9149	0.9586	0.3000	26.2	25.0	4.8	20.0
Styrene	Ave	1.455	1.585	0.3000	27.2	25.0	8.9	20.0
Bromoform	Lin1		0.1913	0.1000	21.1	25.0	-15.4	50.0
Isopropylbenzene	Ave	2.592	2.638	0.1000	25.4	25.0	1.8	20.0
Bromobenzene	Ave	0.6258	0.6277		25.1	25.0	0.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6577	0.6483	0.3000	24.6	25.0	-1.4	20.0
1,2,3-Trichloropropane	Ave	0.2199	0.2234		25.4	25.0	1.6	20.0
N-Propylbenzene	Ave	3.216	3.227		25.1	25.0	0.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2680		20.0	25.0	-19.9	50.0
2-Chlorotoluene	Ave	0.6405	0.6346		24.8	25.0	-0.9	20.0
1,3,5-Trimethylbenzene	Ave	2.296	2.328		25.4	25.0	1.4	20.0
4-Chlorotoluene	Ave	0.6630	0.6968		26.3	25.0	5.1	20.0
tert-Butylbenzene	Ave	0.5218	0.5180		24.8	25.0	-0.7	20.0
1,2,4-Trimethylbenzene	Ave	2.290	2.417		26.4	25.0	5.6	20.0
sec-Butylbenzene	Ave	2.798	2.930		26.2	25.0	4.7	20.0
1,3-Dichlorobenzene	Ave	1.266	1.241	0.6000	24.5	25.0	-2.0	20.0
4-Isopropyltoluene	Ave	2.378	2.524		26.5	25.0	6.1	20.0
1,4-Dichlorobenzene	Ave	1.309	1.272	0.5000	24.3	25.0	-2.8	20.0
n-Butylbenzene	Ave	2.169	2.248		25.9	25.0	3.7	20.0
1,2-Dichlorobenzene	Ave	1.233	1.224	0.4000	24.8	25.0	-0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-275311/2 Calibration Date: 11/16/2015 22:57
 Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
 Lab File ID: S4805.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	0.1011	0.0999	0.0500	24.7	25.0	-1.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8354	0.8210	0.2000	24.6	25.0	-1.7	20.0
Hexachlorobutadiene	Ave	0.3969	0.3867		24.4	25.0	-2.6	20.0
Naphthalene	Ave	1.887	1.982		26.3	25.0	5.1	20.0
1,2,3-Trichlorobenzene	Ave	0.7629	0.8282		27.1	25.0	8.6	20.0
Dibromofluoromethane (Surr)	Ave	1.040	1.002		26.2	27.2	-3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7465		26.1	27.2	-3.9	20.0
Toluene-d8 (Surr)	Ave	2.219	2.180		26.7	27.2	-1.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.6089		27.1	27.2	-0.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4805.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 16-Nov-2015 22:57:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0048406-002
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 23:17:49 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 23:17:49

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	5.401	5.401	0.000	96	205643	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	385000	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	71	355927	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.804	0.000	59	224073	27.2	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166860	27.2	26.1	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	912157	27.2	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	254809	27.2	27.1	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	82	230279	25.0	23.4	
12 Chloromethane	50	1.407	1.407	0.000	89	413878	25.0	23.6	
13 Vinyl chloride	62	1.511	1.511	0.000	81	263917	25.0	25.2	
151 Butadiene	54	1.535	1.535	0.000	89	329474	25.0	26.6	
14 Bromomethane	94	1.815	1.815	0.000	89	83647	25.0	31.8	
15 Chloroethane	64	1.913	1.913	0.000	90	142767	25.0	29.5	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	78	272971	25.0	28.6	
17 Trichlorofluoromethane	101	2.144	2.144	0.000	79	281346	25.0	29.0	
18 Ethyl ether	59	2.418	2.418	0.000	96	242759	25.0	21.5	
20 Acrolein	56	2.576	2.576	0.000	95	259721	125.0	105.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	60	207426	25.0	26.1	
22 1,1-Dichloroethene	96	2.649	2.649	0.000	77	174605	25.0	22.3	
23 Acetone	43	2.728	2.728	0.000	98	546757	125.0	127.9	
25 Iodomethane	142	2.808	2.808	0.000	98	261885	25.0	25.3	
26 Carbon disulfide	76	2.850	2.850	0.000	97	455054	25.0	22.9	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	83	429125	25.0	25.2	
27 Methyl acetate	43	3.039	3.039	0.000	97	1217116	125.0	111.6	
30 Methylene Chloride	84	3.136	3.136	0.000	84	197974	25.0	23.2	
31 2-Methyl-2-propanol	59	3.295	3.295	0.000	92	254023	250.0	208.2	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	91	539643	25.0	22.6	
34 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	87	189161	25.0	24.2	
33 Acrylonitrile	53	3.398	3.398	0.000	97	1232096	250.0	221.3	
35 Hexane	57	3.593	3.593	0.000	95	430875	25.0	21.8	

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	3.788	3.788	0.000	86	452015	25.0	23.6	
37 Vinyl acetate	43	3.842	3.842	0.000	96	1264401	50.0	48.5	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	84	177335	25.0	24.6	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	205069	25.0	22.8	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	91	743399	125.0	119.5	
48 Chlorobromomethane	128	4.573	4.573	0.000	83	103659	25.0	24.9	
49 Tetrahydrofuran	42	4.603	4.603	0.000	93	185960	50.0	46.2	
50 Chloroform	83	4.652	4.652	0.000	83	367847	25.0	23.9	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	88	261295	25.0	25.4	
52 Cyclohexane	56	4.804	4.804	0.000	94	499691	25.0	24.4	
55 Carbon tetrachloride	117	4.926	4.926	0.000	74	242676	25.0	24.1	
54 1,1-Dichloropropene	75	4.938	4.938	0.000	86	289671	25.0	23.5	
53 Isobutyl alcohol	43	5.127	5.127	0.000	63	340149	625.0	563.1	
57 Benzene	78	5.133	5.133	0.000	93	844260	25.0	24.2	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	395756	25.0	24.0	
59 n-Heptane	43	5.340	5.340	0.000	96	453068	25.0	23.0	
62 Trichloroethene	95	5.748	5.748	0.000	90	202360	25.0	23.8	
64 Methylcyclohexane	83	5.888	5.888	0.000	96	350531	25.0	24.3	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	88	241183	25.0	24.3	
67 Dibromomethane	93	6.107	6.107	0.000	90	118694	25.0	23.3	
66 1,4-Dioxane	88	6.119	6.119	0.000	48	41207	500.0	440.1	
68 Dichlorobromomethane	83	6.259	6.259	0.000	90	238110	25.0	24.1	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	86	146486	25.0	23.4	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	81	299043	25.0	25.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.826	0.000	98	1504061	125.0	129.3	
74 Toluene	92	6.984	6.984	0.000	95	502940	25.0	24.3	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	90	263539	25.0	24.6	
75 Ethyl methacrylate	69	7.306	7.306	0.000	93	237007	25.0	25.6	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	88	150502	25.0	25.0	
81 Tetrachloroethene	166	7.526	7.526	0.000	87	207332	25.0	24.5	
82 1,3-Dichloropropane	76	7.593	7.593	0.000	94	334445	25.0	24.3	
80 2-Hexanone	43	7.666	7.666	0.000	75	1085288	125.0	134.2	
83 Chlorodibromomethane	129	7.830	7.830	0.000	86	155770	25.0	22.8	
84 Ethylene Dibromide	107	7.940	7.940	0.000	96	180404	25.0	24.8	
87 Chlorobenzene	112	8.427	8.427	0.000	89	584145	25.0	24.6	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	39	182072	25.0	25.8	
88 Ethylbenzene	91	8.524	8.524	0.000	98	958851	25.0	25.0	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	384032	25.0	25.3	
91 o-Xylene	106	9.072	9.072	0.000	96	369051	25.0	26.2	
92 Styrene	104	9.096	9.096	0.000	93	610214	25.0	27.2	
95 Bromoform	173	9.334	9.334	0.000	93	73639	25.0	21.1	
94 Isopropylbenzene	105	9.462	9.462	0.000	97	939074	25.0	25.4	
101 Bromobenzene	156	9.796	9.796	0.000	97	223409	25.0	25.1	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	81	230732	25.0	24.6	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	65	79503	25.0	25.4	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1148673	25.0	25.1	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.888	0.000	33	95376	25.0	20.0	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	225866	25.0	24.8	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	95	828728	25.0	25.4	
105 4-Chlorotoluene	126	10.095	10.095	0.000	99	248003	25.0	26.3	
106 tert-Butylbenzene	134	10.387	10.387	0.000	93	184368	25.0	24.8	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	76	860351	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	10.594	10.594	0.000	96	1042884	25.0	26.2	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	93	441765	25.0	24.5	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	97	898181	25.0	26.5	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	88	452617	25.0	24.3	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	800246	25.0	25.9	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	90	435795	25.0	24.8	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	55	35565	25.0	24.7	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	93	292230	25.0	24.6	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	94	137639	25.0	24.4	
121 Naphthalene	128	12.773	12.773	0.000	98	705482	25.0	26.3	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	93	294761	25.0	27.1	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151116-48406.b\\S4805.D

Injection Date: 16-Nov-2015 22:57:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

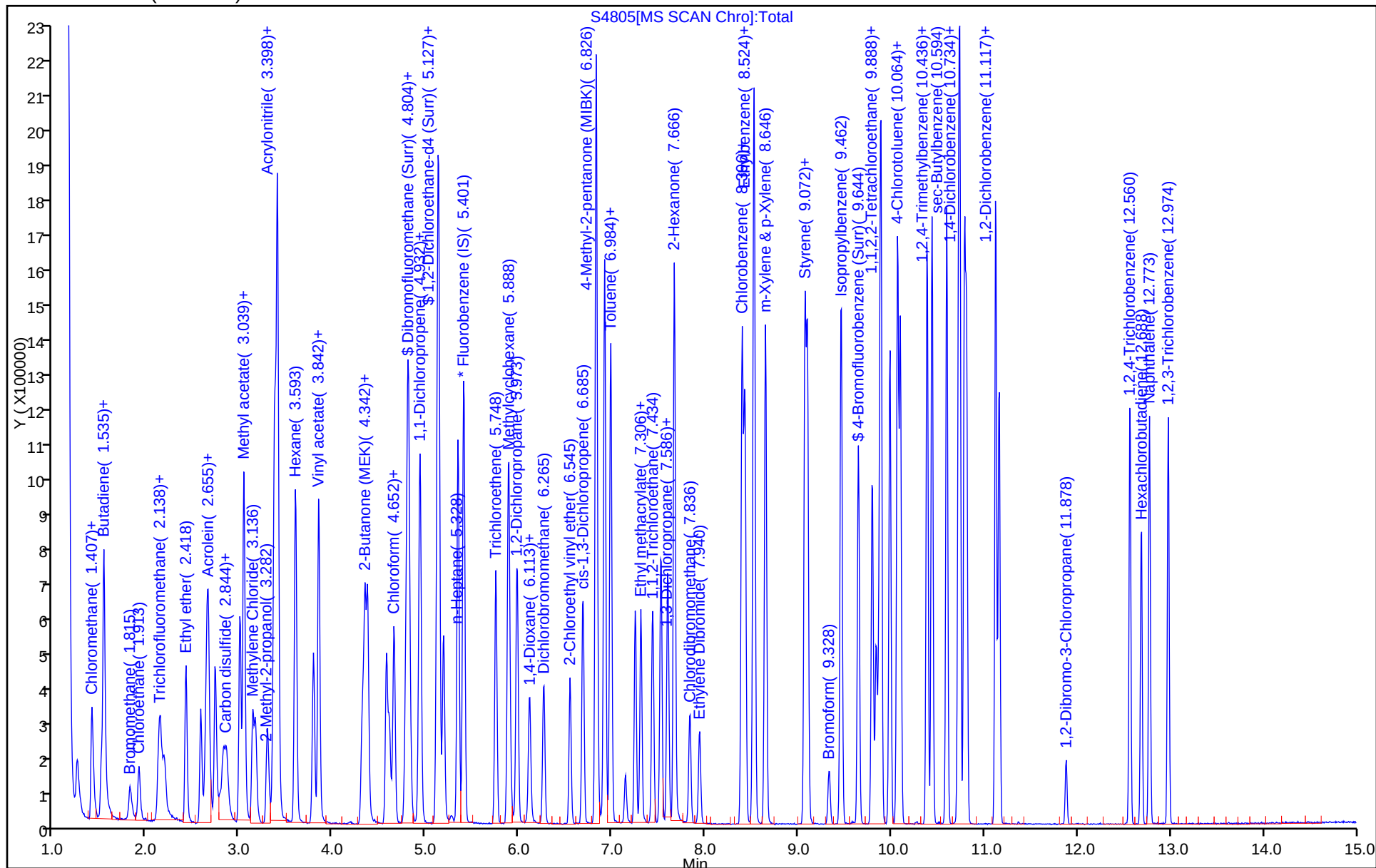
Dil. Factor: 1.0000

ALS Bottle#: 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.: 480-90492-1
SDG No.: _____
Lab Sample ID: CCV 480-275311/3 Calibration Date: 11/16/2015 23:20
Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
Lab File ID: S4806.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	1.040	0.9800		25.6	27.2	-5.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7689		26.9	27.2	-1.0	20.0
Toluene-d8 (Surr)	Ave	2.219	2.168		26.5	27.2	-2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.5977		26.6	27.2	-2.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4806.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2015 23:20:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0048406-003
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 00:01:15 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 17-Nov-2015 00:01:15

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	5.401	5.401	0.000	96	198937	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	380289	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	333680	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	74	211911	27.2	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166260	27.2	26.9	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	896248	27.2	26.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	78	247051	27.2	26.6	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	75	258087	25.0	23.4	
148 Ethanol	45	2.406	2.406	0.000	100	133589	1000.0	927.5	
19 Propene oxide	58	2.497	2.497	0.000	95	332222	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	95	168157	250.0	217.7	
29 Acetonitrile	40	3.027	3.027	0.000	100	213633	250.0	250.1	
36 Isopropyl ether	45	3.824	3.824	0.000	96	981528	25.0	26.2	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	81	456508	25.0	28.4	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	88	145161	125.0	113.7	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	843027	25.0	25.6	
42 Ethyl acetate	43	4.415	4.415	0.000	99	386372	50.0	51.1	
46 Propionitrile	54	4.457	4.457	0.000	98	469136	250.0	248.5	
47 Methacrylonitrile	41	4.573	4.573	0.000	98	2004909	250.0	272.2	
152 Isooctane	57	5.164	5.164	0.000	95	975024	25.0	27.1	
147 t-Amyl alcohol	59	5.188	5.188	0.000	72	195227	250.0	240.1	
56 Tert-amyl methyl ether	73	5.218	5.218	0.000	84	606996	25.0	25.5	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	98	631765	25.0	25.9	
60 n-Butanol	56	5.754	5.754	0.000	94	168372	625.0	734.7	
142 Ethyl acrylate	55	5.864	5.864	0.000	96	363724	25.0	27.4	
63 Methyl methacrylate	41	6.083	6.083	0.000	87	534068	50.0	57.1	
70 2-Nitropropane	43	6.497	6.497	0.000	97	89843	50.0	47.1	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	266601	250.0	237.3	
76 2-Methylthiophene	97	7.118	7.118	0.000	99	732766	25.0	31.3	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	714127	25.0	29.9	

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	7.787	7.787	0.000	97	284694	25.0	27.8	
146 1-Chlorohexane	55	8.384	8.384	0.000	86	306773	25.0	26.3	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	76	280418	25.0	27.2	
86 4-Chlorobenzotrifluoride	180	8.463	8.463	0.000	90	266195	25.0	27.1	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	91	273514	25.0	26.5	
96 Cyclohexanone	55	9.602	9.602	0.000	88	82781	250.0	248.7	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	228633	25.0	26.6	
108 Pentachloroethane	167	10.430	10.430	0.000	73	87413	25.0	24.6	
114 Dicyclopentadiene	66	10.801	10.801	0.000	98	1002034	25.0	25.8	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	54	893596	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	98	51789	25.0	25.2	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	326592	25.0	27.1	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	91	394107	25.0	28.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4806.D

Injection Date: 16-Nov-2015 23:20:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

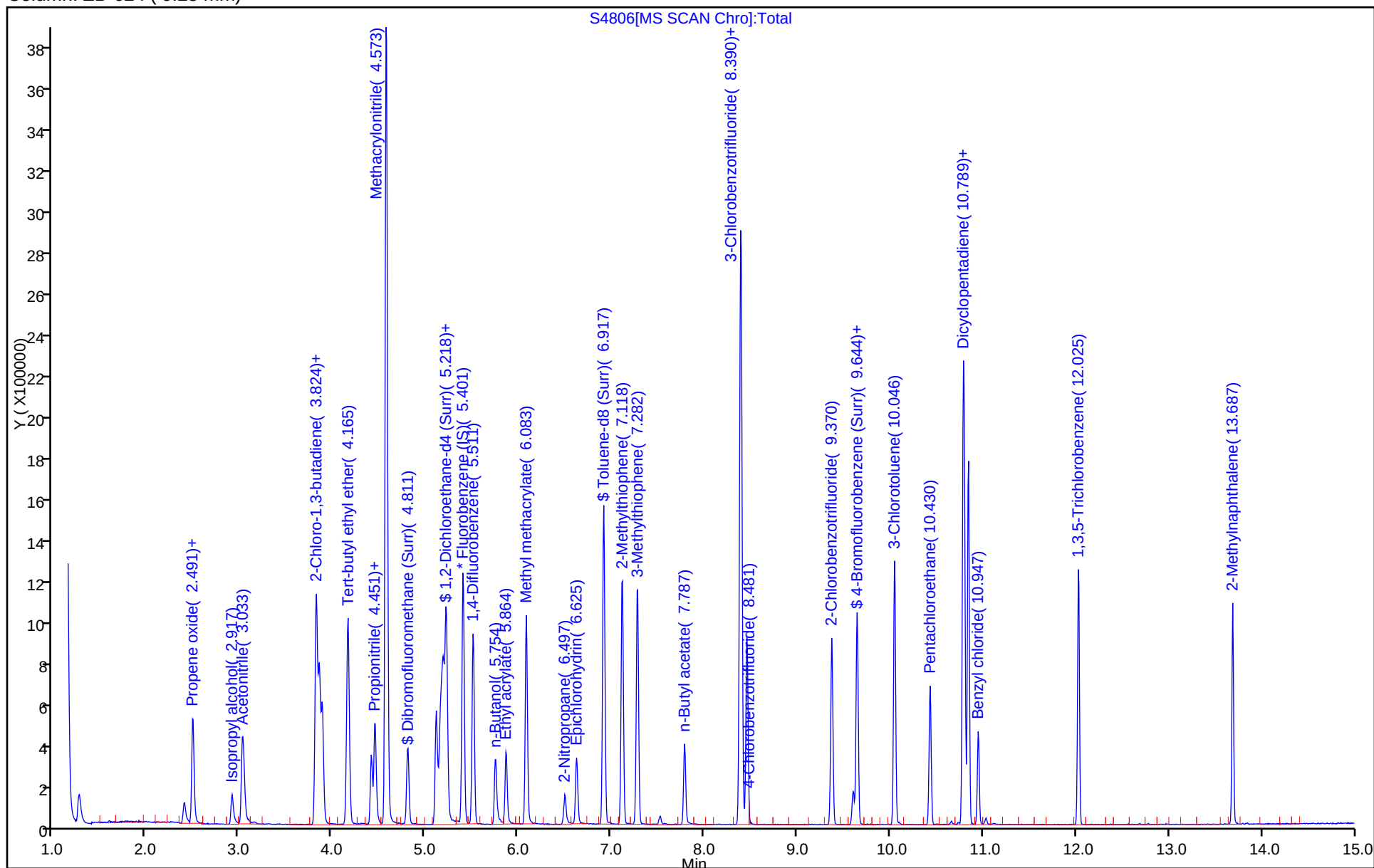
Dil. Factor: 1.0000

ALS Bottle#: 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.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCV 480-275311/3 Calibration Date: 11/16/2015 23:20

Instrument ID: HP5973S Calib Start Date: 11/09/2015 21:31

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 23:46

Lab File ID: S4806.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	1.384	1.297		23.4	25.0	-6.3	20.0
Ethanol	Lin1		0.0168		927	1000	-7.3	20.0
Isopropyl alcohol	Ave	0.0971	0.0845		218	250	-12.9	20.0
Acetonitrile	Lin1		0.1074		250	250	0.0	20.0
Isopropyl ether	Ave	4.712	4.934		26.2	25.0	4.7	20.0
Chloroprene	Ave	2.023	2.295		28.4	25.0	13.4	20.0
1,1-Dimethoxyethane	Ave	0.1605	0.1459		114	125	-9.0	20.0
Tert-butyl ethyl ether	Ave	4.143	4.238		25.6	25.0	2.3	20.0
Ethyl acetate	Ave	0.9499	0.9711		51.1	50.0	2.2	20.0
Propionitrile	Ave	0.2372	0.2358		249	250	-0.6	20.0
Methacrylonitrile	Ave	0.9258	1.008		272	250	8.9	20.0
Isooctane	Ave	4.518	4.901		27.1	25.0	8.5	20.0
t-Amyl alcohol	Ave	0.1022	0.0981		240	250	-3.9	20.0
Tert-amyl methyl ether	Ave	2.994	3.051		25.5	25.0	1.9	20.0
1,4-Difluorobenzene	Ave	3.065	3.176		25.9	25.0	3.6	20.0
n-Butanol	Ave	0.0288	0.0339		735	625	17.6	20.0
Ethyl acrylate	Ave	1.669	1.828		27.4	25.0	9.6	20.0
Methyl methacrylate	Ave	1.175	1.342		57.1	50.0	14.3	20.0
2-Nitropropane	Ave	0.1430	0.1346		47.1	50.0	-5.9	20.0
Epichlorohydrin	Lin1		0.1340		237	250	-5.1	20.0
2-Methylthiophene	Ave	1.752	2.196		31.3	25.0	25.4*	20.0
3-Methylthiophene	Ave	1.790	2.140		29.9	25.0	19.6	20.0
n-Butyl acetate	Ave	1.286	1.431	0.1000	27.8	25.0	11.3	20.0
1-Chlorohexane	Lin1		0.8067		26.3	25.0	5.0	20.0
3-Chlorobenzotrifluoride	Ave	0.7714	0.8404		27.2	25.0	8.9	20.0
4-Chlorobenzotrifluoride	Ave	0.7347	0.7978		27.1	25.0	8.6	20.0
2-Chlorobenzotrifluoride	Ave	0.7726	0.8197		26.5	25.0	6.1	20.0
Cyclohexanone	Ave	0.0249	0.0248		249	250	-0.5	20.0
3-Chlorotoluene	Ave	0.6448	0.6852		26.6	25.0	6.3	20.0
Pentachloroethane	Lin1		0.2620		24.6	25.0	-1.5	20.0
Dicyclopentadiene	Ave	2.910	3.003		25.8	25.0	3.2	20.0
1,2,3-Trimethylbenzene	Ave	2.388	2.678		28.0	25.0	12.2	20.0
Benzyl chloride	Ave	0.1350	0.1362		25.2	25.0	0.9	20.0
1,3,5-Trichlorobenzene	Ave	0.9042	0.9788		27.1	25.0	8.2	20.0
2-Methylnaphthalene	Ave	1.022	1.181		28.9	25.0	15.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4806.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Nov-2015 23:20:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0048406-003
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 00:01:15 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 17-Nov-2015 00:01:15

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	5.401	5.401	0.000	96	198937	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	380289	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	333680	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	74	211911	27.2	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166260	27.2	26.9	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	896248	27.2	26.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	78	247051	27.2	26.6	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	75	258087	25.0	23.4	
148 Ethanol	45	2.406	2.406	0.000	100	133589	1000.0	927.5	
19 Propene oxide	58	2.497	2.497	0.000	95	332222	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	95	168157	250.0	217.7	
29 Acetonitrile	40	3.027	3.027	0.000	100	213633	250.0	250.1	
36 Isopropyl ether	45	3.824	3.824	0.000	96	981528	25.0	26.2	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	81	456508	25.0	28.4	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	88	145161	125.0	113.7	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	843027	25.0	25.6	
42 Ethyl acetate	43	4.415	4.415	0.000	99	386372	50.0	51.1	
46 Propionitrile	54	4.457	4.457	0.000	98	469136	250.0	248.5	
47 Methacrylonitrile	41	4.573	4.573	0.000	98	2004909	250.0	272.2	
152 Isooctane	57	5.164	5.164	0.000	95	975024	25.0	27.1	
147 t-Amyl alcohol	59	5.188	5.188	0.000	72	195227	250.0	240.1	
56 Tert-amyl methyl ether	73	5.218	5.218	0.000	84	606996	25.0	25.5	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	98	631765	25.0	25.9	
60 n-Butanol	56	5.754	5.754	0.000	94	168372	625.0	734.7	
142 Ethyl acrylate	55	5.864	5.864	0.000	96	363724	25.0	27.4	
63 Methyl methacrylate	41	6.083	6.083	0.000	87	534068	50.0	57.1	
70 2-Nitropropane	43	6.497	6.497	0.000	97	89843	50.0	47.1	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	266601	250.0	237.3	
76 2-Methylthiophene	97	7.118	7.118	0.000	99	732766	25.0	31.3	
78 3-Methylthiophene	97	7.282	7.282	0.000	98	714127	25.0	29.9	

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	7.787	7.787	0.000	97	284694	25.0	27.8	
146 1-Chlorohexane	55	8.384	8.384	0.000	86	306773	25.0	26.3	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	76	280418	25.0	27.2	
86 4-Chlorobenzotrifluoride	180	8.463	8.463	0.000	90	266195	25.0	27.1	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	91	273514	25.0	26.5	
96 Cyclohexanone	55	9.602	9.602	0.000	88	82781	250.0	248.7	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	228633	25.0	26.6	
108 Pentachloroethane	167	10.430	10.430	0.000	73	87413	25.0	24.6	
114 Dicyclopentadiene	66	10.801	10.801	0.000	98	1002034	25.0	25.8	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	54	893596	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	98	51789	25.0	25.2	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	326592	25.0	27.1	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	91	394107	25.0	28.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4806.D

Injection Date: 16-Nov-2015 23:20:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

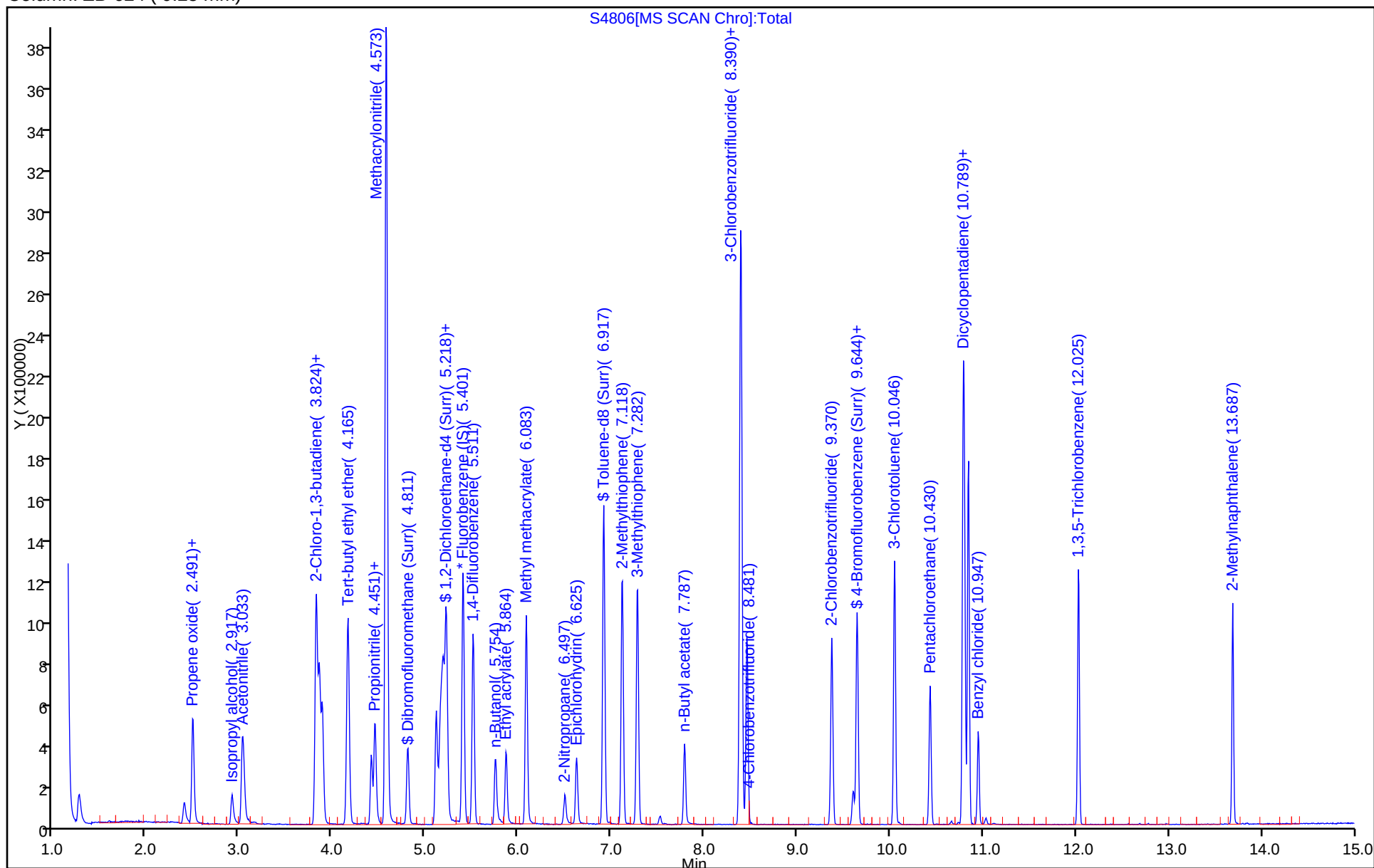
Dil. Factor: 1.0000

ALS Bottle#: 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.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCVIS 480-275377/2 Calibration Date: 11/17/2015 10:14

Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00

Lab File ID: S4831.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	1.194	0.9828	0.1000	20.6	25.0	-17.7	50.0
Chloromethane	Ave	2.128	1.896	0.1000	22.3	25.0	-10.9	20.0
Vinyl chloride	Ave	1.271	1.150	0.1000	22.6	25.0	-9.5	20.0
Butadiene	Ave	1.506	1.482		24.6	25.0	-1.6	20.0
Bromomethane	Ave	0.3195	0.2754	0.1000	21.6	25.0	-13.8	50.0
Chloroethane	Lin1		0.5757	0.1000	24.5	25.0	-1.8	50.0
Dichlorofluoromethane	Ave	1.161	1.280		27.6	25.0	10.2	20.0
Trichlorofluoromethane	Ave	1.180	1.226	0.1000	26.0	25.0	3.9	20.0
Ethyl ether	Ave	1.375	1.303		23.7	25.0	-5.2	20.0
Acrolein	Ave	0.2982	0.2754		115	125	-7.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9667	1.021	0.1000	26.4	25.0	5.6	20.0
1,1-Dichloroethene	Ave	0.9507	0.9417	0.1000	24.8	25.0	-0.9	20.0
Acetone	Ave	0.5196	0.5720	0.1000	138	125	10.1	50.0
Iodomethane	Lin1		1.175		23.3	25.0	-6.6	20.0
Carbon disulfide	Ave	2.420	2.467	0.1000	25.5	25.0	1.9	20.0
Allyl chloride	Ave	2.074	2.011		24.2	25.0	-3.0	20.0
Methyl acetate	Ave	1.325	1.295	0.1000	122	125	-2.3	50.0
Methylene Chloride	Lin1		1.025	0.1000	24.7	25.0	-1.2	20.0
2-Methyl-2-propanol	Ave	0.1483	0.1386		234	250	-6.5	50.0
Methyl tert-butyl ether	Ave	2.907	2.786	0.1000	24.0	25.0	-4.2	20.0
trans-1,2-Dichloroethene	Ave	0.9512	0.9752	0.1000	25.6	25.0	2.5	20.0
Acrylonitrile	Ave	0.6769	0.6450		238	250	-4.7	20.0
Hexane	Ave	2.402	2.366		24.6	25.0	-1.5	20.0
1,1-Dichloroethane	Ave	2.332	2.273	0.2000	24.4	25.0	-2.5	20.0
Vinyl acetate	Ave	3.167	3.429		54.1	50.0	8.3	20.0
2,2-Dichloropropane	Ave	0.8753	0.7978		22.8	25.0	-8.9	20.0
cis-1,2-Dichloroethene	Ave	1.091	1.039	0.1000	23.8	25.0	-4.8	20.0
2-Butanone (MEK)	Ave	0.7562	0.7971	0.1000	132	125	5.4	20.0
Chlorobromomethane	Ave	0.5070	0.5135		25.3	25.0	1.3	20.0
Tetrahydrofuran	Ave	0.4893	0.4841		49.5	50.0	-1.1	20.0
Chloroform	Ave	1.871	1.822	0.2000	24.3	25.0	-2.6	20.0
1,1,1-Trichloroethane	Ave	1.253	1.263	0.1000	25.2	25.0	0.8	20.0
Cyclohexane	Ave	2.488	2.546	0.1000	25.6	25.0	2.4	20.0
Carbon tetrachloride	Ave	1.226	1.147	0.1000	23.4	25.0	-6.4	20.0
1,1-Dichloropropene	Ave	1.496	1.439		24.0	25.0	-3.8	20.0
Benzene	Ave	4.239	4.235	0.5000	25.0	25.0	-0.0	20.0
Isobutyl alcohol	Ave	0.0734	0.0726		618	625	-1.1	50.0
1,2-Dichloroethane	Ave	2.008	1.940	0.1000	24.1	25.0	-3.4	20.0
n-Heptane	Ave	2.400	2.537		26.4	25.0	5.7	20.0
Trichloroethene	Ave	1.033	1.049	0.2000	25.4	25.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-275377/2 Calibration Date: 11/17/2015 10:14
 Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
 Lab File ID: S4831.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	1.751	1.788	0.1000	25.5	25.0	2.2	20.0
1,2-Dichloropropane	Ave	1.207	1.214	0.1000	25.1	25.0	0.6	20.0
Dibromomethane	Ave	0.6186	0.5871	0.1000	23.7	25.0	-5.1	20.0
1,4-Dioxane	Ave	0.0061	0.0057		467	500	-6.7	50.0
Bromodichloromethane	Ave	1.200	1.185	0.2000	24.7	25.0	-1.2	20.0
2-Chloroethyl vinyl ether	Ave	0.7608	0.7529		24.7	25.0	-1.0	20.0
cis-1,3-Dichloropropene	Ave	1.438	1.480	0.2000	25.7	25.0	2.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7556	0.8353	0.1000	138	125	10.6	20.0
Toluene	Ave	1.345	1.361	0.4000	25.3	25.0	1.2	20.0
trans-1,3-Dichloropropene	Ave	0.6943	0.7255	0.1000	26.1	25.0	4.5	20.0
Ethyl methacrylate	Ave	0.6022	0.6606		27.4	25.0	9.7	20.0
1,1,2-Trichloroethane	Ave	0.3905	0.4149	0.1000	26.6	25.0	6.3	20.0
Tetrachloroethene	Ave	0.5487	0.5637	0.2000	25.7	25.0	2.7	20.0
1,3-Dichloropropane	Ave	0.8936	0.8944		25.0	25.0	0.0	20.0
2-Hexanone	Ave	0.5253	0.6104	0.1000	145	125	16.2	20.0
Dibromochloromethane	Lin1		0.4062	0.1000	22.9	25.0	-8.3	20.0
1,2-Dibromoethane	Ave	0.4720	0.4925		26.1	25.0	4.3	20.0
Chlorobenzene	Ave	1.543	1.561	0.5000	25.3	25.0	1.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4590	0.4927		26.8	25.0	7.3	20.0
Ethylbenzene	Ave	2.487	2.570	0.1000	25.8	25.0	3.3	20.0
m,p-Xylene	Ave	0.9857	1.011	0.1000	25.6	25.0	2.6	20.0
o-Xylene	Ave	0.9149	0.9609	0.3000	26.3	25.0	5.0	20.0
Styrene	Ave	1.455	1.620	0.3000	27.8	25.0	11.4	20.0
Bromoform	Lin1		0.1886	0.1000	20.9	25.0	-16.5	50.0
Isopropylbenzene	Ave	2.592	2.804	0.1000	27.0	25.0	8.2	20.0
Bromobenzene	Ave	0.6258	0.6561		26.2	25.0	4.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6577	0.6973	0.3000	26.5	25.0	6.0	20.0
1,2,3-Trichloropropane	Ave	0.2199	0.2352		26.7	25.0	7.0	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2937		21.9	25.0	-12.5	50.0
N-Propylbenzene	Ave	3.216	3.358		26.1	25.0	4.4	20.0
2-Chlorotoluene	Ave	0.6405	0.6810		26.6	25.0	6.3	20.0
1,3,5-Trimethylbenzene	Ave	2.296	2.416		26.3	25.0	5.2	20.0
4-Chlorotoluene	Ave	0.6630	0.7254		27.4	25.0	9.4	20.0
tert-Butylbenzene	Ave	0.5218	0.5204		24.9	25.0	-0.3	20.0
1,2,4-Trimethylbenzene	Ave	2.290	2.516		27.5	25.0	9.9	20.0
sec-Butylbenzene	Ave	2.798	3.017		27.0	25.0	7.8	20.0
1,3-Dichlorobenzene	Ave	1.266	1.299	0.6000	25.6	25.0	2.6	20.0
4-Isopropyltoluene	Ave	2.378	2.609		27.4	25.0	9.7	20.0
1,4-Dichlorobenzene	Ave	1.309	1.315	0.5000	25.1	25.0	0.5	20.0
n-Butylbenzene	Ave	2.169	2.363		27.2	25.0	8.9	20.0
1,2-Dichlorobenzene	Ave	1.233	1.251	0.4000	25.4	25.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-275377/2 Calibration Date: 11/17/2015 10:14
 Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
 Lab File ID: S4831.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	0.1011	0.1028	0.0500	25.4	25.0	1.6	50.0
1,2,4-Trichlorobenzene	Ave	0.8354	0.8923	0.2000	26.7	25.0	6.8	20.0
Hexachlorobutadiene	Ave	0.3969	0.4213		26.5	25.0	6.1	20.0
Naphthalene	Ave	1.887	2.175		28.8	25.0	15.3	20.0
1,2,3-Trichlorobenzene	Ave	0.7629	0.8473		27.8	25.0	11.1	20.0
Dibromofluoromethane (Surr)	Ave	1.040	0.999		26.1	27.2	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7574		26.5	27.2	-2.5	20.0
Toluene-d8 (Surr)	Ave	2.219	2.225		27.2	27.2	0.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.6326		28.1	27.2	3.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4831.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 17-Nov-2015 10:14:30 ALS Bottle#: 28 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0048414-002
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 10:40:46 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: gentilej

Date: 17-Nov-2015 10:40:46

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	5.401	5.401	0.000	96	201006	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	372882	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	73	335779	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.804	0.000	62	218317	27.2	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	165480	27.2	26.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	901960	27.2	27.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	256395	27.2	28.1	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	86	197539	25.0	20.6	
12 Chloromethane	50	1.407	1.407	0.000	88	381173	25.0	22.3	
13 Vinyl chloride	62	1.511	1.511	0.000	81	231104	25.0	22.6	
151 Butadiene	54	1.541	1.541	0.000	90	297907	25.0	24.6	
14 Bromomethane	94	1.803	1.803	0.000	86	55355	25.0	21.6	
15 Chloroethane	64	1.913	1.913	0.000	92	115723	25.0	24.5	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	78	257198	25.0	27.6	
17 Trichlorofluoromethane	101	2.144	2.144	0.000	77	246422	25.0	26.0	
18 Ethyl ether	59	2.424	2.424	0.000	98	261994	25.0	23.7	
20 Acrolein	56	2.582	2.582	0.000	96	276763	125.0	115.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.661	2.661	0.000	45	205150	25.0	26.4	
22 1,1-Dichloroethene	96	2.661	2.661	0.000	77	189284	25.0	24.8	
23 Acetone	43	2.740	2.740	0.000	98	574838	125.0	137.6	
25 Iodomethane	142	2.820	2.820	0.000	96	236140	25.0	23.3	
26 Carbon disulfide	76	2.850	2.850	0.000	99	495807	25.0	25.5	
28 3-Chloro-1-propene	41	3.002	3.002	0.000	83	404212	25.0	24.2	
27 Methyl acetate	43	3.045	3.045	0.000	98	1301962	125.0	122.2	
30 Methylene Chloride	84	3.173	3.173	0.000	81	205977	25.0	24.7	
31 2-Methyl-2-propanol	59	3.301	3.301	0.000	93	278666	250.0	233.7	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	92	560021	25.0	24.0	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	80	196029	25.0	25.6	
33 Acrylonitrile	53	3.404	3.404	0.000	97	1296428	250.0	238.2	
35 Hexane	57	3.593	3.593	0.000	94	475536	25.0	24.6	

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	3.788	3.788	0.000	85	456879	25.0	24.4	
37 Vinyl acetate	43	3.848	3.848	0.000	97	1378610	50.0	54.1	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	81	160352	25.0	22.8	
45 cis-1,2-Dichloroethene	96	4.348	4.348	0.000	73	208847	25.0	23.8	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	91	801065	125.0	131.8	
48 Chlorobromomethane	128	4.573	4.573	0.000	82	103222	25.0	25.3	
49 Tetrahydrofuran	42	4.609	4.609	0.000	92	194627	50.0	49.5	
50 Chloroform	83	4.652	4.652	0.000	84	366208	25.0	24.3	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	87	253776	25.0	25.2	
52 Cyclohexane	56	4.804	4.804	0.000	91	511814	25.0	25.6	
55 Carbon tetrachloride	117	4.926	4.926	0.000	71	230589	25.0	23.4	
54 1,1-Dichloropropene	75	4.932	4.932	0.000	83	289156	25.0	24.0	
53 Isobutyl alcohol	43	5.133	5.133	0.000	62	364988	625.0	618.2	
57 Benzene	78	5.133	5.133	0.000	93	851229	25.0	25.0	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	389855	25.0	24.1	
59 n-Heptane	43	5.340	5.340	0.000	96	509932	25.0	26.4	
62 Trichloroethene	95	5.748	5.748	0.000	92	210783	25.0	25.4	
64 Methylcyclohexane	83	5.888	5.888	0.000	95	359476	25.0	25.5	
65 1,2-Dichloropropane	63	5.973	5.973	0.000	89	244043	25.0	25.1	
67 Dibromomethane	93	6.113	6.113	0.000	93	118006	25.0	23.7	
66 1,4-Dioxane	88	6.125	6.125	0.000	85	42329	500.0	466.7	
68 Dichlorobromomethane	83	6.265	6.265	0.000	91	238196	25.0	24.7	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	86	151332	25.0	24.7	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	81	297395	25.0	25.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	99	1557351	125.0	138.2	
74 Toluene	92	6.984	6.984	0.000	93	507411	25.0	25.3	
77 trans-1,3-Dichloropropene	75	7.245	7.245	0.000	91	270523	25.0	26.1	
75 Ethyl methacrylate	69	7.306	7.306	0.000	92	246339	25.0	27.4	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	154723	25.0	26.6	
81 Tetrachloroethene	166	7.519	7.519	0.000	87	210180	25.0	25.7	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	93	333491	25.0	25.0	
80 2-Hexanone	43	7.666	7.666	0.000	99	1137952	125.0	145.2	
83 Chlorodibromomethane	129	7.836	7.836	0.000	87	151481	25.0	22.9	
84 Ethylene Dibromide	107	7.940	7.940	0.000	96	183645	25.0	26.1	
87 Chlorobenzene	112	8.427	8.427	0.000	88	582252	25.0	25.3	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	40	183706	25.0	26.8	
88 Ethylbenzene	91	8.524	8.524	0.000	98	958158	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	376960	25.0	25.6	
91 o-Xylene	106	9.072	9.072	0.000	97	358294	25.0	26.3	
92 Styrene	104	9.096	9.096	0.000	93	604210	25.0	27.8	
95 Bromoform	173	9.328	9.328	0.000	91	70341	25.0	20.9	
94 Isopropylbenzene	105	9.455	9.455	0.000	98	941686	25.0	27.0	
101 Bromobenzene	156	9.796	9.796	0.000	94	220313	25.0	26.2	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	80	234134	25.0	26.5	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	65	78980	25.0	26.7	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.882	0.000	33	98608	25.0	21.9	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1127706	25.0	26.1	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	228658	25.0	26.6	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	95	811153	25.0	26.3	
105 4-Chlorotoluene	126	10.095	10.095	0.000	98	243578	25.0	27.4	
106 tert-Butylbenzene	134	10.387	10.387	0.000	93	174730	25.0	24.9	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	844792	25.0	27.5	

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	10.594	10.594	0.000	95	1013113	25.0	27.0	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	93	436161	25.0	25.6	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	96	875878	25.0	27.4	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	89	441657	25.0	25.1	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	793307	25.0	27.2	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	89	419958	25.0	25.4	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	59	34503	25.0	25.4	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	91	299628	25.0	26.7	
120 Hexachlorobutadiene	225	12.682	12.682	0.000	93	141453	25.0	26.5	
121 Naphthalene	128	12.773	12.773	0.000	98	730399	25.0	28.8	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	93	284494	25.0	27.8	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4831.D

Injection Date: 17-Nov-2015 10:14:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

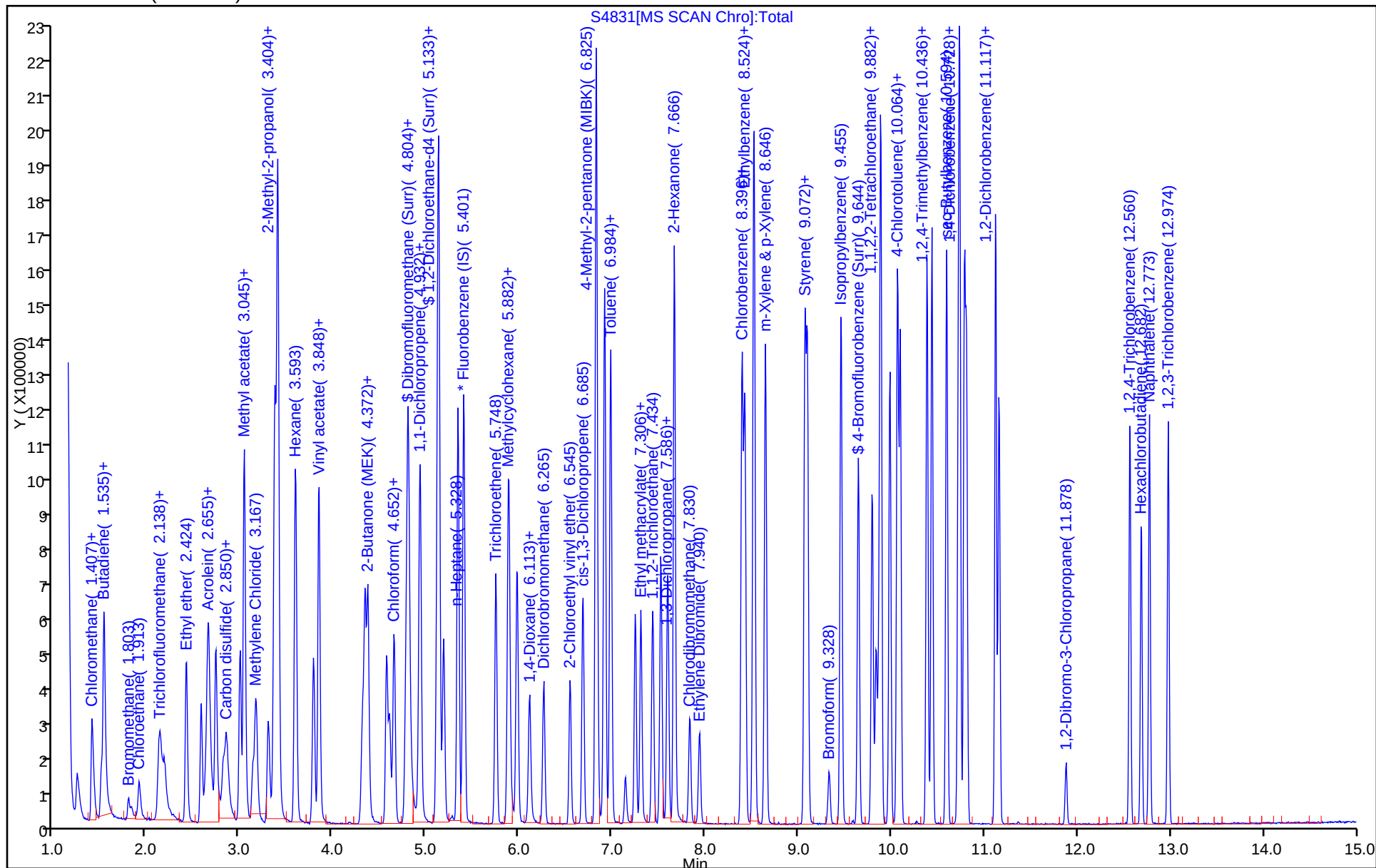
Dil. Factor: 1.0000

ALS Bottle#: 28

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.: 480-90492-1
SDG No.: _____
Lab Sample ID: CCV 480-275377/3 Calibration Date: 11/17/2015 10:37
Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
Lab File ID: S4832.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	1.040	0.9741		25.5	27.2	-6.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7685		26.9	27.2	-1.1	20.0
Toluene-d8 (Surr)	Ave	2.219	2.178		26.7	27.2	-1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.6062		27.0	27.2	-0.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4832.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Nov-2015 10:37:30 ALS Bottle#: 29 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0048414-003
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 10:57:33 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: gentilej

Date: 17-Nov-2015 10:57:33

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	5.401	5.401	0.000	97	195382	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.390	0.000	89	368372	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	316987	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.804	0.000	58	206880	27.2	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	163203	27.2	26.9	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	872016	27.2	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	79	242710	27.2	27.0	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	77	282636	25.0	26.1	
148 Ethanol	45	2.418	2.418	0.000	99	167321	1000.0	1182.1	
19 Propene oxide	58	2.497	2.497	0.000	95	338038	NC	NC	
24 Isopropyl alcohol	45	2.929	2.929	0.000	95	192384	250.0	253.6	
29 Acetonitrile	40	3.033	3.033	0.000	99	231799	250.0	276.9	
36 Isopropyl ether	45	3.824	3.824	0.000	97	980730	25.0	26.6	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	83	440871	25.0	27.9	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	62	154852	125.0	123.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	830503	25.0	25.7	
42 Ethyl acetate	43	4.415	4.415	0.000	99	399227	50.0	53.8	
46 Propionitrile	54	4.457	4.457	0.000	97	482817	250.0	260.4	
47 Methacrylonitrile	41	4.579	4.579	0.000	98	2031156	250.0	280.7	
152 Isooctane	57	5.170	5.170	0.000	96	964009	25.0	27.3	
147 t-Amyl alcohol	59	5.194	5.194	0.000	80	216235	250.0	270.8	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	86	599730	25.0	25.6	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	619715	25.0	25.9	
60 n-Butanol	56	5.754	5.754	0.000	95	189776	625.0	843.2	
142 Ethyl acrylate	55	5.864	5.864	0.000	97	368735	25.0	28.3	
63 Methyl methacrylate	41	6.083	6.083	0.000	88	549274	50.0	59.8	
70 2-Nitropropane	43	6.503	6.503	0.000	99	86301	50.0	47.6	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	280989	250.0	254.4	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	690065	25.0	31.1	
78 3-Methylthiophene	97	7.282	7.282	0.000	99	689510	25.0	30.4	

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	7.787	7.787	0.000	97	278753	25.0	27.7	
146 1-Chlorohexane	55	8.384	8.384	0.000	86	303812	25.0	26.9	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	77	276710	25.0	28.3	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	93	261646	25.0	28.1	
93 2-Chlorobenzotrifluoride	180	9.376	9.376	0.000	95	268738	25.0	27.4	
96 Cyclohexanone	55	9.602	9.602	0.000	94	94086	250.0	297.5	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	223505	25.0	27.3	
108 Pentachloroethane	167	10.430	10.430	0.000	76	86064	25.0	25.5	
114 Dicyclopentadiene	66	10.795	10.795	0.000	97	954414	25.0	25.9	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	59	847589	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	97	56449	25.0	28.4	
118 1,3,5-Trichlorobenzene	180	12.025	12.025	0.000	94	314517	25.0	27.4	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	87	406268	25.0	31.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4832.D

Injection Date: 17-Nov-2015 10:37:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

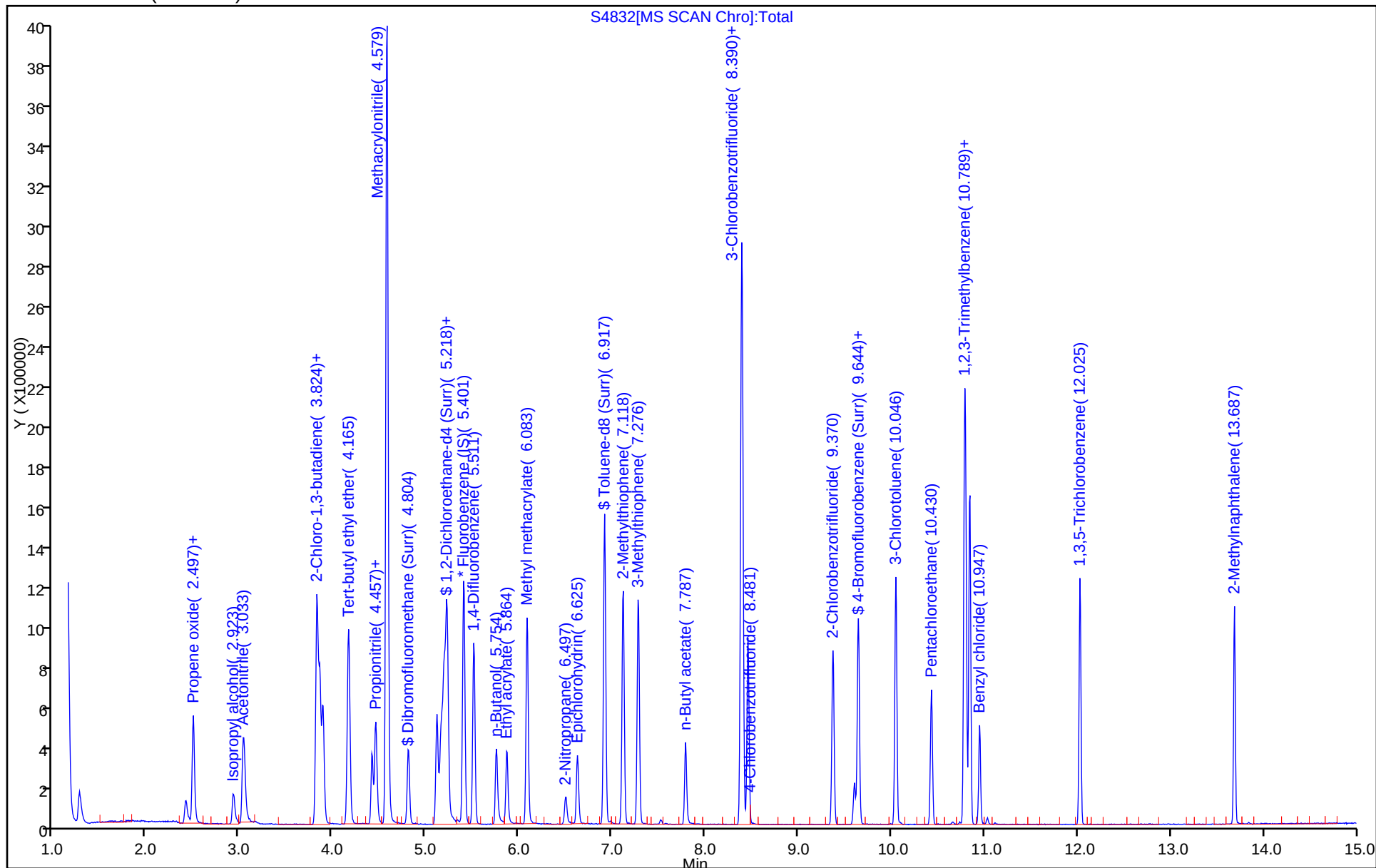
Dil. Factor: 1.0000

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.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCV 480-275377/3 Calibration Date: 11/17/2015 10:37

Instrument ID: HP5973S Calib Start Date: 11/09/2015 21:31

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 23:46

Lab File ID: S4832.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	1.384	1.447		26.1	25.0	4.5	20.0
Ethanol	Lin1		0.0214		1180	1000	18.2	20.0
Isopropyl alcohol	Ave	0.0971	0.0985		254	250	1.4	20.0
Acetonitrile	Lin1		0.1186		277	250	10.8	20.0
Isopropyl ether	Ave	4.712	5.020		26.6	25.0	6.5	20.0
Chloroprene	Ave	2.023	2.256		27.9	25.0	11.5	20.0
1,1-Dimethoxyethane	Ave	0.1605	0.1585		123	125	-1.2	20.0
Tert-butyl ethyl ether	Ave	4.143	4.251		25.7	25.0	2.6	20.0
Ethyl acetate	Ave	0.9499	1.022		53.8	50.0	7.6	20.0
Propionitrile	Ave	0.2372	0.2471		260	250	4.2	20.0
Methacrylonitrile	Ave	0.9258	1.040		281	250	12.3	20.0
Isooctane	Ave	4.518	4.934		27.3	25.0	9.2	20.0
t-Amyl alcohol	Ave	0.1022	0.1107		271	250	8.3	20.0
Tert-amyl methyl ether	Ave	2.994	3.070		25.6	25.0	2.5	20.0
1,4-Difluorobenzene	Ave	3.065	3.172		25.9	25.0	3.5	20.0
n-Butanol	Ave	0.0288	0.0389		843	625	34.9*	20.0
Ethyl acrylate	Ave	1.669	1.887		28.3	25.0	13.1	20.0
Methyl methacrylate	Ave	1.175	1.406		59.8	50.0	19.7	20.0
2-Nitropropane	Ave	0.1430	0.1361		47.6	50.0	-4.8	20.0
Epichlorohydrin	Lin1		0.1438		254	250	1.8	20.0
2-Methylthiophene	Ave	1.752	2.177		31.1	25.0	24.3*	20.0
3-Methylthiophene	Ave	1.790	2.175		30.4	25.0	21.6*	20.0
n-Butyl acetate	Ave	1.286	1.427	0.1000	27.7	25.0	10.9	20.0
1-Chlorohexane	Lin1		0.8247		26.9	25.0	7.4	20.0
3-Chlorobenzotrifluoride	Ave	0.7714	0.8729		28.3	25.0	13.2	20.0
4-Chlorobenzotrifluoride	Ave	0.7347	0.8254		28.1	25.0	12.4	20.0
2-Chlorobenzotrifluoride	Ave	0.7726	0.8478		27.4	25.0	9.7	20.0
Cyclohexanone	Ave	0.0249	0.0297		297	250	19.0	20.0
3-Chlorotoluene	Ave	0.6448	0.7051		27.3	25.0	9.3	20.0
Pentachloroethane	Lin1		0.2715		25.5	25.0	1.9	20.0
Dicyclopentadiene	Ave	2.910	3.011		25.9	25.0	3.5	20.0
1,2,3-Trimethylbenzene	Ave	2.388	2.674		28.0	25.0	12.0	20.0
Benzyl chloride	Ave	0.1350	0.1532		28.4	25.0	13.5	20.0
1,3,5-Trichlorobenzene	Ave	0.9042	0.9922		27.4	25.0	9.7	20.0
2-Methylnaphthalene	Ave	1.022	1.282		31.3	25.0	25.4*	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4832.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Nov-2015 10:37:30 ALS Bottle#: 29 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0048414-003
 Operator ID: JG Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 10:57:33 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: gentilej

Date: 17-Nov-2015 10:57:33

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	5.401	5.401	0.000	97	195382	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.390	0.000	89	368372	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	316987	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.804	0.000	58	206880	27.2	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	163203	27.2	26.9	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	95	872016	27.2	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	79	242710	27.2	27.0	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	77	282636	25.0	26.1	
148 Ethanol	45	2.418	2.418	0.000	99	167321	1000.0	1182.1	
19 Propene oxide	58	2.497	2.497	0.000	95	338038	NC	NC	
24 Isopropyl alcohol	45	2.929	2.929	0.000	95	192384	250.0	253.6	
29 Acetonitrile	40	3.033	3.033	0.000	99	231799	250.0	276.9	
36 Isopropyl ether	45	3.824	3.824	0.000	97	980730	25.0	26.6	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	83	440871	25.0	27.9	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	62	154852	125.0	123.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	830503	25.0	25.7	
42 Ethyl acetate	43	4.415	4.415	0.000	99	399227	50.0	53.8	
46 Propionitrile	54	4.457	4.457	0.000	97	482817	250.0	260.4	
47 Methacrylonitrile	41	4.579	4.579	0.000	98	2031156	250.0	280.7	
152 Isooctane	57	5.170	5.170	0.000	96	964009	25.0	27.3	
147 t-Amyl alcohol	59	5.194	5.194	0.000	80	216235	250.0	270.8	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	86	599730	25.0	25.6	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	619715	25.0	25.9	
60 n-Butanol	56	5.754	5.754	0.000	95	189776	625.0	843.2	
142 Ethyl acrylate	55	5.864	5.864	0.000	97	368735	25.0	28.3	
63 Methyl methacrylate	41	6.083	6.083	0.000	88	549274	50.0	59.8	
70 2-Nitropropane	43	6.503	6.503	0.000	99	86301	50.0	47.6	
71 Epichlorohydrin	57	6.625	6.625	0.000	98	280989	250.0	254.4	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	690065	25.0	31.1	
78 3-Methylthiophene	97	7.282	7.282	0.000	99	689510	25.0	30.4	

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	7.787	7.787	0.000	97	278753	25.0	27.7	
146 1-Chlorohexane	55	8.384	8.384	0.000	86	303812	25.0	26.9	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	77	276710	25.0	28.3	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	93	261646	25.0	28.1	
93 2-Chlorobenzotrifluoride	180	9.376	9.376	0.000	95	268738	25.0	27.4	
96 Cyclohexanone	55	9.602	9.602	0.000	94	94086	250.0	297.5	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	223505	25.0	27.3	
108 Pentachloroethane	167	10.430	10.430	0.000	76	86064	25.0	25.5	
114 Dicyclopentadiene	66	10.795	10.795	0.000	97	954414	25.0	25.9	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	59	847589	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	97	56449	25.0	28.4	
118 1,3,5-Trichlorobenzene	180	12.025	12.025	0.000	94	314517	25.0	27.4	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	87	406268	25.0	31.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4832.D

Injection Date: 17-Nov-2015 10:37:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

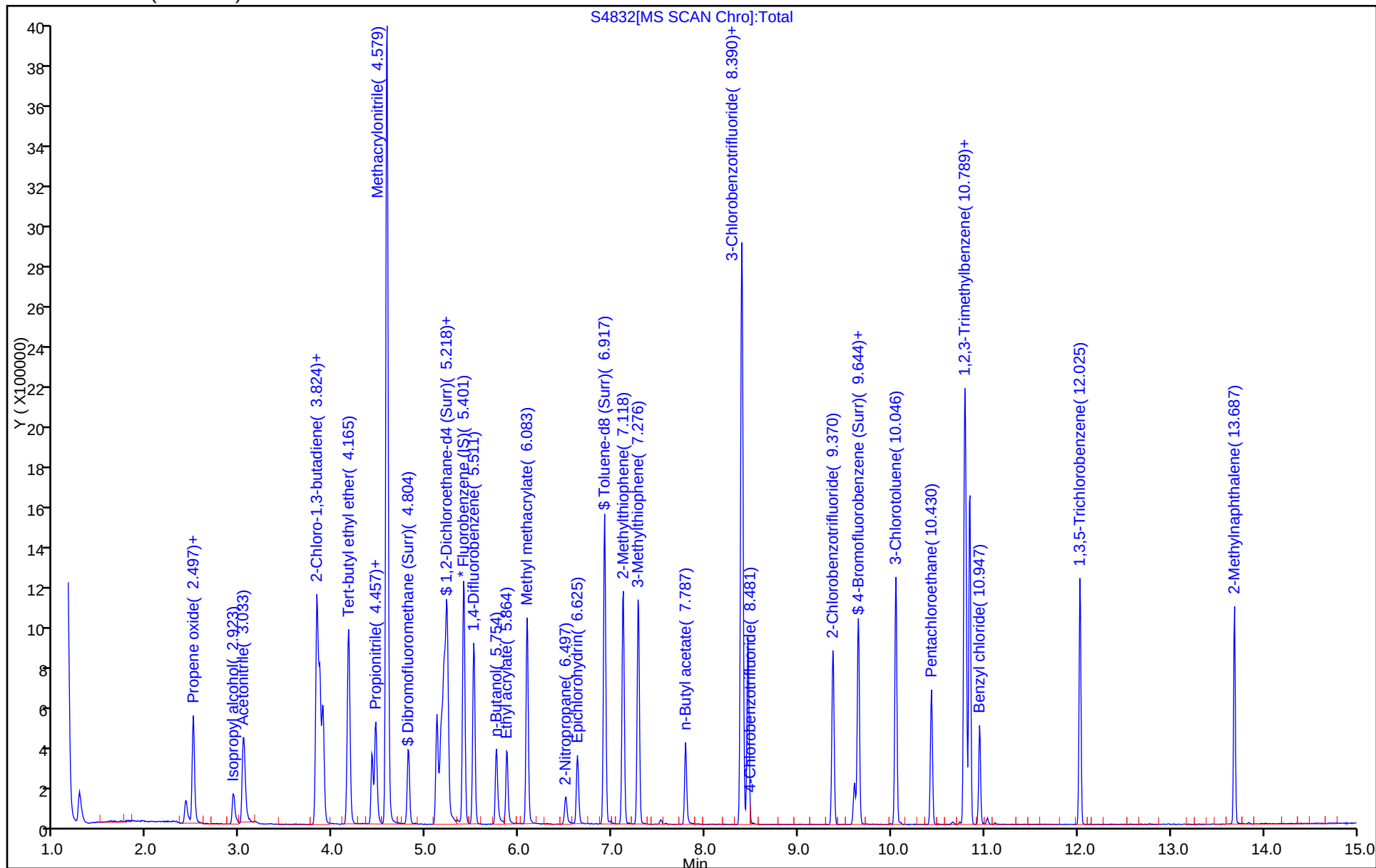
Dil. Factor: 1.0000

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.: 480-90492-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-275520/2 Calibration Date: 11/17/2015 21:41
 Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
 Lab File ID: S4861.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	1.194	1.051	0.1000	22.0	25.0	-12.0	50.0
Chloromethane	Ave	2.128	1.998	0.1000	23.5	25.0	-6.1	20.0
Vinyl chloride	Ave	1.271	1.279	0.1000	25.2	25.0	0.6	20.0
Butadiene	Ave	1.506	1.591		26.4	25.0	5.7	20.0
Bromomethane	Ave	0.3195	0.4063	0.1000	31.8	25.0	27.2	50.0
Chloroethane	Lin1		0.6739	0.1000	28.6	25.0	14.6	50.0
Dichlorofluoromethane	Ave	1.161	1.281		27.6	25.0	10.4	20.0
Trichlorofluoromethane	Ave	1.180	1.305	0.1000	27.7	25.0	10.6	20.0
Ethyl ether	Ave	1.375	1.335		24.3	25.0	-2.9	20.0
Acrolein	Ave	0.2982	0.2731		114	125	-8.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9667	1.047	0.1000	27.1	25.0	8.3	20.0
1,1-Dichloroethene	Ave	0.9507	0.9857	0.1000	25.9	25.0	3.7	20.0
Acetone	Ave	0.5196	0.5545	0.1000	133	125	6.7	50.0
Iodomethane	Lin1		1.448		28.7	25.0	14.8	20.0
Carbon disulfide	Ave	2.420	2.576	0.1000	26.6	25.0	6.4	20.0
Allyl chloride	Ave	2.074	2.329		28.1	25.0	12.3	20.0
Methyl acetate	Ave	1.325	1.261	0.1000	119	125	-4.9	50.0
Methylene Chloride	Lin1		1.076	0.1000	26.0	25.0	3.9	20.0
2-Methyl-2-propanol	Ave	0.1483	0.1217		205	250	-17.9	50.0
Methyl tert-butyl ether	Ave	2.907	2.803	0.1000	24.1	25.0	-3.6	20.0
trans-1,2-Dichloroethene	Ave	0.9512	1.041	0.1000	27.4	25.0	9.4	20.0
Acrylonitrile	Ave	0.6769	0.6365		235	250	-6.0	20.0
Hexane	Ave	2.402	2.453		25.5	25.0	2.1	20.0
1,1-Dichloroethane	Ave	2.332	2.395	0.2000	25.7	25.0	2.7	20.0
Vinyl acetate	Ave	3.167	3.386		53.5	50.0	6.9	20.0
2,2-Dichloropropane	Ave	0.8753	0.9746		27.8	25.0	11.4	20.0
cis-1,2-Dichloroethene	Ave	1.091	1.094	0.1000	25.1	25.0	0.3	20.0
2-Butanone (MEK)	Ave	0.7562	0.7631	0.1000	126	125	0.9	20.0
Chlorobromomethane	Ave	0.5070	0.5306		26.2	25.0	4.6	20.0
Tetrahydrofuran	Ave	0.4893	0.4560		46.6	50.0	-6.8	20.0
Chloroform	Ave	1.871	1.924	0.2000	25.7	25.0	2.8	20.0
1,1,1-Trichloroethane	Ave	1.253	1.384	0.1000	27.6	25.0	10.5	20.0
Cyclohexane	Ave	2.488	2.721	0.1000	27.3	25.0	9.4	20.0
Carbon tetrachloride	Ave	1.226	1.282	0.1000	26.2	25.0	4.6	20.0
1,1-Dichloropropene	Ave	1.496	1.520		25.4	25.0	1.6	20.0
Isobutyl alcohol	Ave	0.0734	0.0647		550	625	-12.0	50.0
Benzene	Ave	4.239	4.362	0.5000	25.7	25.0	2.9	20.0
1,2-Dichloroethane	Ave	2.008	2.037	0.1000	25.4	25.0	1.5	20.0
n-Heptane	Ave	2.400	2.583		26.9	25.0	7.6	20.0
Trichloroethene	Ave	1.033	1.083	0.2000	26.2	25.0	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCVIS 480-275520/2 Calibration Date: 11/17/2015 21:41

Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00

Lab File ID: S4861.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	1.751	1.852	0.1000	26.5	25.0	5.8	20.0
1,2-Dichloropropane	Ave	1.207	1.282	0.1000	26.5	25.0	6.2	20.0
Dibromomethane	Ave	0.6186	0.6138	0.1000	24.8	25.0	-0.8	20.0
1,4-Dioxane	Ave	0.0061	0.0051		420	500	-16.0	50.0
Bromodichloromethane	Ave	1.200	1.208	0.2000	25.2	25.0	0.7	20.0
2-Chloroethyl vinyl ether	Ave	0.7608	0.7556		24.8	25.0	-0.7	20.0
cis-1,3-Dichloropropene	Ave	1.438	1.531	0.2000	26.6	25.0	6.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7556	0.8032	0.1000	133	125	6.3	20.0
Toluene	Ave	1.345	1.380	0.4000	25.7	25.0	2.6	20.0
trans-1,3-Dichloropropene	Ave	0.6943	0.7348	0.1000	26.5	25.0	5.8	20.0
Ethyl methacrylate	Ave	0.6022	0.6602		27.4	25.0	9.6	20.0
1,1,2-Trichloroethane	Ave	0.3905	0.3976	0.1000	25.5	25.0	1.8	20.0
Tetrachloroethene	Ave	0.5487	0.5820	0.2000	26.5	25.0	6.1	20.0
1,3-Dichloropropane	Ave	0.8936	0.9160		25.6	25.0	2.5	20.0
2-Hexanone	Ave	0.5253	0.5786	0.1000	138	125	10.1	20.0
Dibromochloromethane	Lin1		0.4278	0.1000	24.1	25.0	-3.5	20.0
1,2-Dibromoethane	Ave	0.4720	0.4995		26.5	25.0	5.8	20.0
Chlorobenzene	Ave	1.543	1.638	0.5000	26.5	25.0	6.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4590	0.5080		27.7	25.0	10.7	20.0
Ethylbenzene	Ave	2.487	2.681	0.1000	26.9	25.0	7.8	20.0
m,p-Xylene	Ave	0.9857	1.052	0.1000	26.7	25.0	6.7	20.0
o-Xylene	Ave	0.9149	1.008	0.3000	27.5	25.0	10.1	20.0
Styrene	Ave	1.455	1.676	0.3000	28.8	25.0	15.2	20.0
Bromoform	Lin1		0.1934	0.1000	21.4	25.0	-14.5	50.0
Isopropylbenzene	Ave	2.592	2.728	0.1000	26.3	25.0	5.3	20.0
Bromobenzene	Ave	0.6258	0.6410		25.6	25.0	2.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6577	0.6583	0.3000	25.0	25.0	0.1	20.0
1,2,3-Trichloropropane	Ave	0.2199	0.2176		24.7	25.0	-1.0	20.0
N-Propylbenzene	Ave	3.216	3.330		25.9	25.0	3.5	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2889		21.5	25.0	-13.9	50.0
2-Chlorotoluene	Ave	0.6405	0.6706		26.2	25.0	4.7	20.0
1,3,5-Trimethylbenzene	Ave	2.296	2.413		26.3	25.0	5.1	20.0
4-Chlorotoluene	Ave	0.6630	0.7214		27.2	25.0	8.8	20.0
tert-Butylbenzene	Ave	0.5218	0.5410		25.9	25.0	3.7	20.0
1,2,4-Trimethylbenzene	Ave	2.290	2.465		26.9	25.0	7.6	20.0
sec-Butylbenzene	Ave	2.798	3.008		26.9	25.0	7.5	20.0
1,3-Dichlorobenzene	Ave	1.266	1.293	0.6000	25.5	25.0	2.1	20.0
4-Isopropyltoluene	Ave	2.378	2.672		28.1	25.0	12.4	20.0
1,4-Dichlorobenzene	Ave	1.309	1.343	0.5000	25.7	25.0	2.6	20.0
n-Butylbenzene	Ave	2.169	2.356		27.2	25.0	8.6	20.0
1,2-Dichlorobenzene	Ave	1.233	1.265	0.4000	25.6	25.0	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-275520/2 Calibration Date: 11/17/2015 21:41
 Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
 Lab File ID: S4861.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	0.1011	0.0915	0.0500	22.6	25.0	-9.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8354	0.8491	0.2000	25.4	25.0	1.6	20.0
Hexachlorobutadiene	Ave	0.3969	0.3956		24.9	25.0	-0.3	20.0
Naphthalene	Ave	1.887	2.034		27.0	25.0	7.8	20.0
1,2,3-Trichlorobenzene	Ave	0.7629	0.8226		27.0	25.0	7.8	20.0
Dibromofluoromethane (Surr)	Ave	1.040	1.053		27.5	27.2	1.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7926		27.7	27.2	2.1	20.0
Toluene-d8 (Surr)	Ave	2.219	2.302		28.2	27.2	3.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.6302		28.0	27.2	3.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4861.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 17-Nov-2015 21:41:30 ALS Bottle#: 58 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0048440-002
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 21:59:59 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 21:59:59

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	5.401	5.401	0.000	97	193125	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	363406	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	70	342181	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.804	0.000	57	221099	27.2	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166375	27.2	27.7	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	909303	27.2	28.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	248931	27.2	28.0	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	86	203047	25.0	22.0	
12 Chloromethane	50	1.407	1.407	0.000	89	385952	25.0	23.5	
13 Vinyl chloride	62	1.517	1.517	0.000	78	247026	25.0	25.2	
151 Butadiene	54	1.535	1.535	0.000	89	307266	25.0	26.4	
14 Bromomethane	94	1.815	1.815	0.000	92	78461	25.0	31.8	
15 Chloroethane	64	1.913	1.913	0.000	90	130146	25.0	28.6	
16 Dichlorofluoromethane	67	2.138	2.138	0.000	79	247432	25.0	27.6	
17 Trichlorofluoromethane	101	2.144	2.144	0.000	78	252076	25.0	27.7	
18 Ethyl ether	59	2.418	2.418	0.000	97	257801	25.0	24.3	
20 Acrolein	56	2.576	2.576	0.000	96	263683	125.0	114.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	52	202179	25.0	27.1	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	79	190372	25.0	25.9	
23 Acetone	43	2.734	2.734	0.000	98	535402	125.0	133.4	
25 Iodomethane	142	2.814	2.814	0.000	98	279585	25.0	28.7	
26 Carbon disulfide	76	2.850	2.850	0.000	99	497442	25.0	26.6	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	82	449881	25.0	28.1	
27 Methyl acetate	43	3.039	3.039	0.000	97	1217431	125.0	118.9	
30 Methylene Chloride	84	3.136	3.136	0.000	87	207725	25.0	26.0	
31 2-Methyl-2-propanol	59	3.294	3.294	0.000	91	235118	250.0	205.2	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	90	541328	25.0	24.1	
34 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	85	200977	25.0	27.4	
33 Acrylonitrile	53	3.404	3.404	0.000	97	1229219	250.0	235.1	
35 Hexane	57	3.593	3.593	0.000	96	473685	25.0	25.5	

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	3.788	3.788	0.000	85	462446	25.0	25.7	
37 Vinyl acetate	43	3.842	3.842	0.000	97	1307670	50.0	53.5	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	82	188228	25.0	27.8	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	76	211327	25.0	25.1	
43 2-Butanone (MEK)	43	4.366	4.366	0.000	90	736904	125.0	126.2	
48 Chlorobromomethane	128	4.573	4.573	0.000	83	102462	25.0	26.2	
49 Tetrahydrofuran	42	4.603	4.603	0.000	92	176110	50.0	46.6	
50 Chloroform	83	4.652	4.652	0.000	83	371522	25.0	25.7	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	89	267364	25.0	27.6	
52 Cyclohexane	56	4.810	4.810	0.000	91	525409	25.0	27.3	
55 Carbon tetrachloride	117	4.926	4.926	0.000	77	247615	25.0	26.2	
54 1,1-Dichloropropene	75	4.938	4.938	0.000	84	293603	25.0	25.4	
53 Isobutyl alcohol	43	5.127	5.127	0.000	62	312116	625.0	550.2	
57 Benzene	78	5.133	5.133	0.000	93	842337	25.0	25.7	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	393456	25.0	25.4	
59 n-Heptane	43	5.340	5.340	0.000	96	498802	25.0	26.9	
62 Trichloroethene	95	5.748	5.748	0.000	89	209118	25.0	26.2	
64 Methylcyclohexane	83	5.882	5.882	0.000	96	357753	25.0	26.5	
65 1,2-Dichloropropane	63	5.973	5.973	0.000	87	247507	25.0	26.5	
67 Dibromomethane	93	6.107	6.107	0.000	90	118534	25.0	24.8	
66 1,4-Dioxane	88	6.119	6.119	0.000	56	37127	500.0	420.0	
68 Dichlorobromomethane	83	6.265	6.265	0.000	89	233356	25.0	25.2	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	87	145925	25.0	24.8	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	82	295678	25.0	26.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	99	1459437	125.0	132.9	
74 Toluene	92	6.984	6.984	0.000	89	501541	25.0	25.7	
77 trans-1,3-Dichloropropene	75	7.245	7.245	0.000	92	267023	25.0	26.5	
75 Ethyl methacrylate	69	7.306	7.306	0.000	94	239926	25.0	27.4	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	86	144473	25.0	25.5	
81 Tetrachloroethene	166	7.519	7.519	0.000	88	211513	25.0	26.5	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	94	332895	25.0	25.6	
80 2-Hexanone	43	7.666	7.666	0.000	99	1051396	125.0	137.7	
83 Chlorodibromomethane	129	7.830	7.830	0.000	86	155449	25.0	24.1	
84 Ethylene Dibromide	107	7.940	7.940	0.000	95	181513	25.0	26.5	
87 Chlorobenzene	112	8.427	8.427	0.000	89	595145	25.0	26.5	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	40	184599	25.0	27.7	
88 Ethylbenzene	91	8.524	8.524	0.000	98	974168	25.0	26.9	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	382254	25.0	26.7	
91 o-Xylene	106	9.072	9.072	0.000	97	366169	25.0	27.5	
92 Styrene	104	9.096	9.096	0.000	92	609041	25.0	28.8	
95 Bromoform	173	9.334	9.334	0.000	93	70288	25.0	21.4	
94 Isopropylbenzene	105	9.455	9.455	0.000	97	933575	25.0	26.3	
101 Bromobenzene	156	9.796	9.796	0.000	96	219350	25.0	25.6	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	81	225268	25.0	25.0	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	68	74468	25.0	24.7	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1139351	25.0	25.9	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.888	0.000	31	98852	25.0	21.5	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	229461	25.0	26.2	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	95	825662	25.0	26.3	
105 4-Chlorotoluene	126	10.095	10.095	0.000	97	246855	25.0	27.2	
106 tert-Butylbenzene	134	10.387	10.387	0.000	93	185111	25.0	25.9	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	70	843337	25.0	26.9	

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	10.594	10.594	0.000	95	1029248	25.0	26.9	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	93	442329	25.0	25.5	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	96	914275	25.0	28.1	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	91	459533	25.0	25.7	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	806173	25.0	27.2	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	93	432731	25.0	25.6	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	61	31295	25.0	22.6	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	90	290542	25.0	25.4	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	93	135375	25.0	24.9	
121 Naphthalene	128	12.773	12.773	0.000	97	696054	25.0	27.0	
122 1,2,3-Trichlorobenzene	180	12.980	12.980	0.000	94	281470	25.0	27.0	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151117-48440.b\\S4861.D

Injection Date: 17-Nov-2015 21:41:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

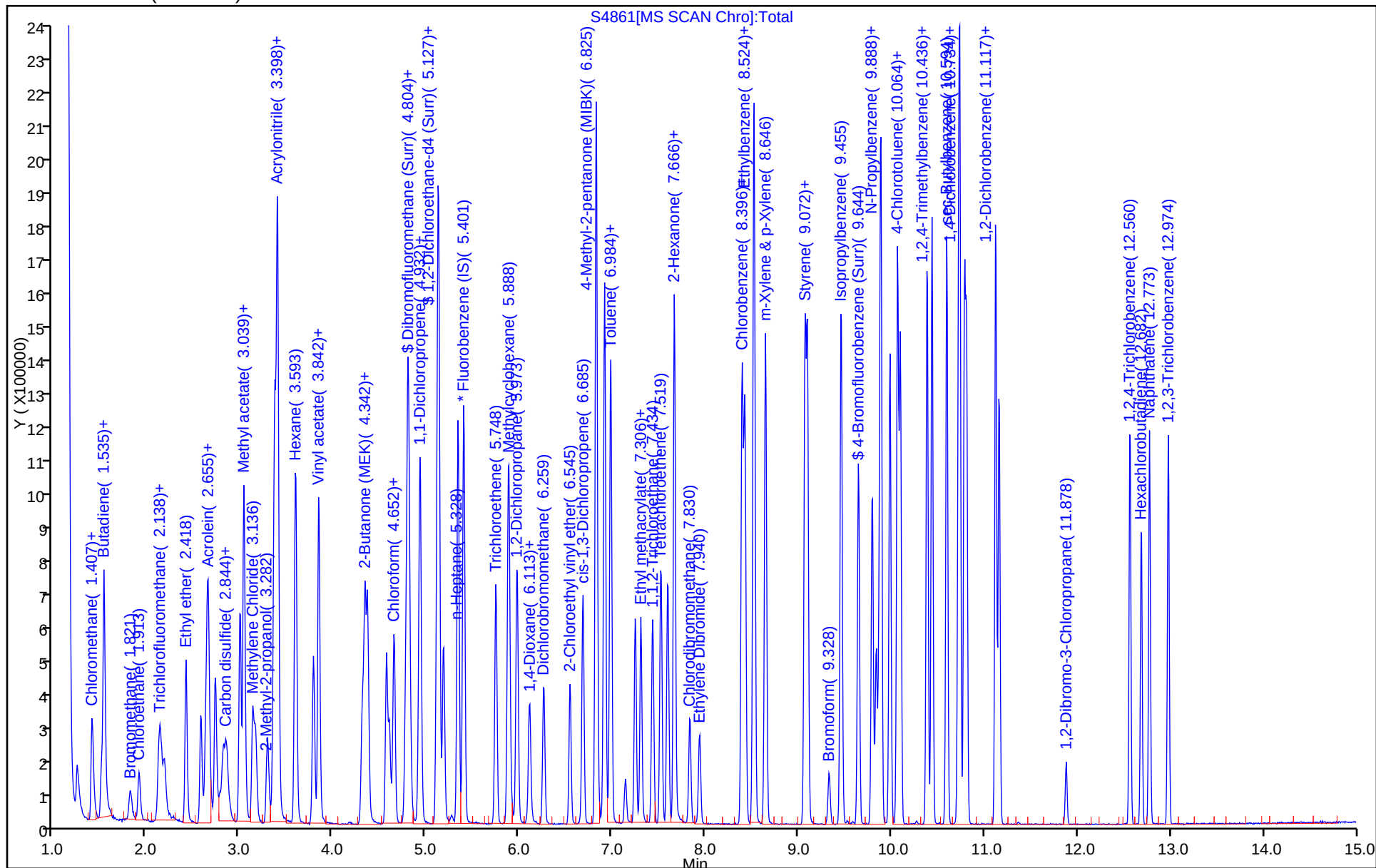
Dil. Factor: 1.0000

ALS Bottle#: 58

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.: 480-90492-1
SDG No.: _____
Lab Sample ID: CCV 480-275520/3 Calibration Date: 11/17/2015 22:05
Instrument ID: HP5973S Calib Start Date: 11/09/2015 17:43
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 20:00
Lab File ID: S4862.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	1.040	1.015		26.5	27.2	-2.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7766	0.7863		27.5	27.2	1.2	20.0
Toluene-d8 (Surr)	Ave	2.219	2.171		26.6	27.2	-2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6110	0.5895		26.2	27.2	-3.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4862.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Nov-2015 22:05:30 ALS Bottle#: 59 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0048440-003
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 22:31:05 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 22:31:05

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	5.401	5.401	0.000	97	194553	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.390	0.000	90	380451	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	329000	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	57	214629	27.2	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166272	27.2	27.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	897866	27.2	26.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	78	243768	27.2	26.2	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	77	241950	25.0	22.5	
148 Ethanol	45	2.400	2.400	0.000	99	138793	1000.0	985.1	
19 Propene oxide	58	2.497	2.497	0.000	95	327459	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	94	170746	250.0	226.0	
29 Acetonitrile	40	3.027	3.027	0.000	100	220823	250.0	264.7	
36 Isopropyl ether	45	3.824	3.824	0.000	95	973969	25.0	26.6	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	79	437347	25.0	27.8	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	64	146737	125.0	117.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	821582	25.0	25.5	
42 Ethyl acetate	43	4.415	4.415	0.000	99	377815	50.0	51.1	
46 Propionitrile	54	4.457	4.457	0.000	98	458614	250.0	248.4	
47 Methacrylonitrile	41	4.579	4.579	0.000	98	1945434	250.0	270.0	
152 Isooctane	57	5.164	5.164	0.000	95	1003151	25.0	28.5	
147 t-Amyl alcohol	59	5.188	5.188	0.000	75	183069	250.0	230.3	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	85	574232	25.0	24.6	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	98	626653	25.0	26.3	
60 n-Butanol	56	5.748	5.748	0.000	91	153070	625.0	683.0	
142 Ethyl acrylate	55	5.864	5.864	0.000	94	361509	25.0	27.8	
63 Methyl methacrylate	41	6.083	6.083	0.000	90	512256	50.0	56.0	
70 2-Nitropropane	43	6.497	6.497	0.000	100	86259	50.0	45.8	
71 Epichlorohydrin	57	6.625	6.625	0.000	94	261990	250.0	238.4	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	707085	25.0	30.7	
78 3-Methylthiophene	97	7.282	7.282	0.000	99	702688	25.0	29.8	

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	7.787	7.787	0.000	95	269556	25.0	26.9	
146 1-Chlorohexane	55	8.384	8.384	0.000	86	303368	25.0	25.9	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	76	285895	25.0	28.2	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	92	270916	25.0	28.0	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	92	273985	25.0	26.9	
96 Cyclohexanone	55	9.602	9.602	0.000	91	78154	250.0	238.1	
104 3-Chlorotoluene	126	10.046	10.046	0.000	98	227158	25.0	26.8	
108 Pentachloroethane	167	10.430	10.430	0.000	76	89114	25.0	25.4	
114 Dicyclopentadiene	66	10.801	10.801	0.000	97	991400	25.0	25.9	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	54	879937	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	98	51956	25.0	25.3	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	322143	25.0	27.1	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	381523	25.0	28.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4862.D

Injection Date: 17-Nov-2015 22:05:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

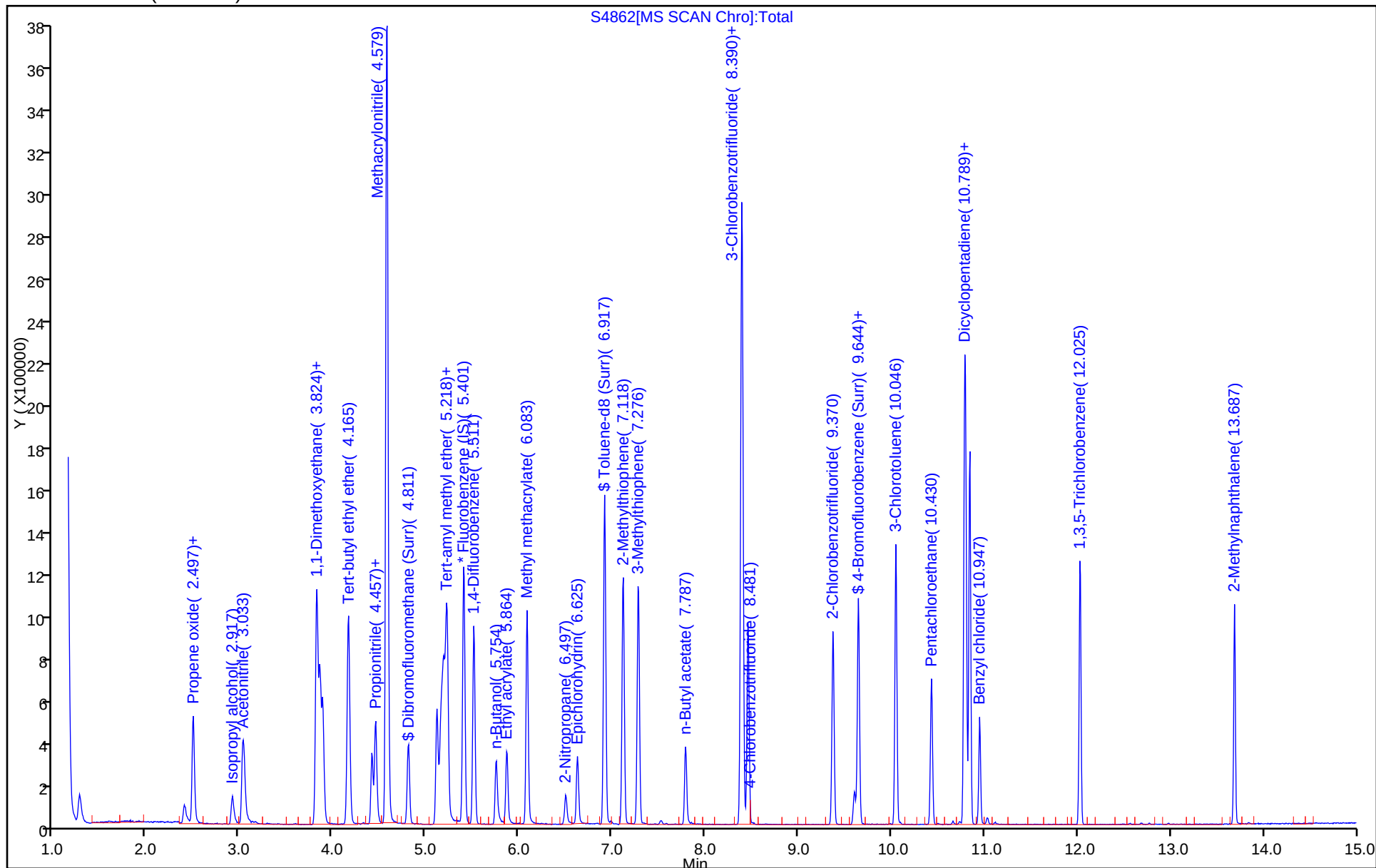
Dil. Factor: 1.0000

ALS Bottle#: 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.: 480-90492-1

SDG No.: _____

Lab Sample ID: CCV 480-275520/3 Calibration Date: 11/17/2015 22:05

Instrument ID: HP5973S Calib Start Date: 11/09/2015 21:31

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/09/2015 23:46

Lab File ID: S4862.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	1.384	1.244		22.5	25.0	-10.1	20.0
Ethanol	Lin1		0.0178		985	1000	-1.5	20.0
Isopropyl alcohol	Ave	0.0971	0.0878		226	250	-9.6	20.0
Acetonitrile	Lin1		0.1135		265	250	5.9	20.0
Isopropyl ether	Ave	4.712	5.006		26.6	25.0	6.2	20.0
Chloroprene	Ave	2.023	2.248		27.8	25.0	11.1	20.0
1,1-Dimethoxyethane	Ave	0.1605	0.1509		118	125	-6.0	20.0
Tert-butyl ethyl ether	Ave	4.143	4.223		25.5	25.0	1.9	20.0
Ethyl acetate	Ave	0.9499	0.9710		51.1	50.0	2.2	20.0
Propionitrile	Ave	0.2372	0.2357		248	250	-0.6	20.0
Methacrylonitrile	Ave	0.9258	1.000		270	250	8.0	20.0
Isooctane	Ave	4.518	5.156		28.5	25.0	14.1	20.0
t-Amyl alcohol	Ave	0.1022	0.0941		230	250	-7.9	20.0
Tert-amyl methyl ether	Ave	2.994	2.952		24.6	25.0	-1.4	20.0
1,4-Difluorobenzene	Ave	3.065	3.221		26.3	25.0	5.1	20.0
n-Butanol	Ave	0.0288	0.0315		683	625	9.3	20.0
Ethyl acrylate	Ave	1.669	1.858		27.8	25.0	11.4	20.0
Methyl methacrylate	Ave	1.175	1.316		56.0	50.0	12.1	20.0
2-Nitropropane	Ave	0.1430	0.1311		45.8	50.0	-8.3	20.0
Epichlorohydrin	Lin1		0.1347		238	250	-4.6	20.0
2-Methylthiophene	Ave	1.752	2.149		30.7	25.0	22.7*	20.0
3-Methylthiophene	Ave	1.790	2.136		29.8	25.0	19.4	20.0
n-Butyl acetate	Ave	1.286	1.386	0.1000	26.9	25.0	7.7	20.0
1-Chlorohexane	Lin1		0.7974		25.9	25.0	3.8	20.0
3-Chlorobenzotrifluoride	Ave	0.7714	0.8690		28.2	25.0	12.6	20.0
4-Chlorobenzotrifluoride	Ave	0.7347	0.8235		28.0	25.0	12.1	20.0
2-Chlorobenzotrifluoride	Ave	0.7726	0.8328		26.9	25.0	7.8	20.0
Cyclohexanone	Ave	0.0249	0.0238		238	250	-4.8	20.0
3-Chlorotoluene	Ave	0.6448	0.6905		26.8	25.0	7.1	20.0
Pentachloroethane	Lin1		0.2709		25.4	25.0	1.7	20.0
Dicyclopentadiene	Ave	2.910	3.013		25.9	25.0	3.5	20.0
1,2,3-Trimethylbenzene	Ave	2.388	2.675		28.0	25.0	12.0	20.0
Benzyl chloride	Ave	0.1350	0.1366		25.3	25.0	1.2	20.0
1,3,5-Trichlorobenzene	Ave	0.9042	0.9792		27.1	25.0	8.3	20.0
2-Methylnaphthalene	Ave	1.022	1.160		28.4	25.0	13.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4862.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Nov-2015 22:05:30 ALS Bottle#: 59 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Misc. Info.: 480-0048440-003
 Operator ID: SO Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub32
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 22:31:05 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 22:31:05

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	5.401	5.401	0.000	97	194553	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.390	0.000	90	380451	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	95	329000	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.811	0.000	57	214629	27.2	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166272	27.2	27.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	897866	27.2	26.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	78	243768	27.2	26.2	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	77	241950	25.0	22.5	
148 Ethanol	45	2.400	2.400	0.000	99	138793	1000.0	985.1	
19 Propene oxide	58	2.497	2.497	0.000	95	327459	NC	NC	
24 Isopropyl alcohol	45	2.917	2.917	0.000	94	170746	250.0	226.0	
29 Acetonitrile	40	3.027	3.027	0.000	100	220823	250.0	264.7	
36 Isopropyl ether	45	3.824	3.824	0.000	95	973969	25.0	26.6	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	79	437347	25.0	27.8	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	64	146737	125.0	117.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	821582	25.0	25.5	
42 Ethyl acetate	43	4.415	4.415	0.000	99	377815	50.0	51.1	
46 Propionitrile	54	4.457	4.457	0.000	98	458614	250.0	248.4	
47 Methacrylonitrile	41	4.579	4.579	0.000	98	1945434	250.0	270.0	
152 Isooctane	57	5.164	5.164	0.000	95	1003151	25.0	28.5	
147 t-Amyl alcohol	59	5.188	5.188	0.000	75	183069	250.0	230.3	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	85	574232	25.0	24.6	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	98	626653	25.0	26.3	
60 n-Butanol	56	5.748	5.748	0.000	91	153070	625.0	683.0	
142 Ethyl acrylate	55	5.864	5.864	0.000	94	361509	25.0	27.8	
63 Methyl methacrylate	41	6.083	6.083	0.000	90	512256	50.0	56.0	
70 2-Nitropropane	43	6.497	6.497	0.000	100	86259	50.0	45.8	
71 Epichlorohydrin	57	6.625	6.625	0.000	94	261990	250.0	238.4	
76 2-Methylthiophene	97	7.118	7.118	0.000	98	707085	25.0	30.7	
78 3-Methylthiophene	97	7.282	7.282	0.000	99	702688	25.0	29.8	

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	7.787	7.787	0.000	95	269556	25.0	26.9	
146 1-Chlorohexane	55	8.384	8.384	0.000	86	303368	25.0	25.9	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	76	285895	25.0	28.2	
86 4-Chlorobenzotrifluoride	180	8.457	8.457	0.000	92	270916	25.0	28.0	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	92	273985	25.0	26.9	
96 Cyclohexanone	55	9.602	9.602	0.000	91	78154	250.0	238.1	
104 3-Chlorotoluene	126	10.046	10.046	0.000	98	227158	25.0	26.8	
108 Pentachloroethane	167	10.430	10.430	0.000	76	89114	25.0	25.4	
114 Dicyclopentadiene	66	10.801	10.801	0.000	97	991400	25.0	25.9	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	54	879937	25.0	28.0	
150 Benzyl chloride	126	10.947	10.947	0.000	98	51956	25.0	25.3	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	322143	25.0	27.1	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	381523	25.0	28.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3MTP_WRK_00050	Amount Added: 12.50	Units: uL	
2MTP_WRK_00048	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4862.D

Injection Date: 17-Nov-2015 22:05:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

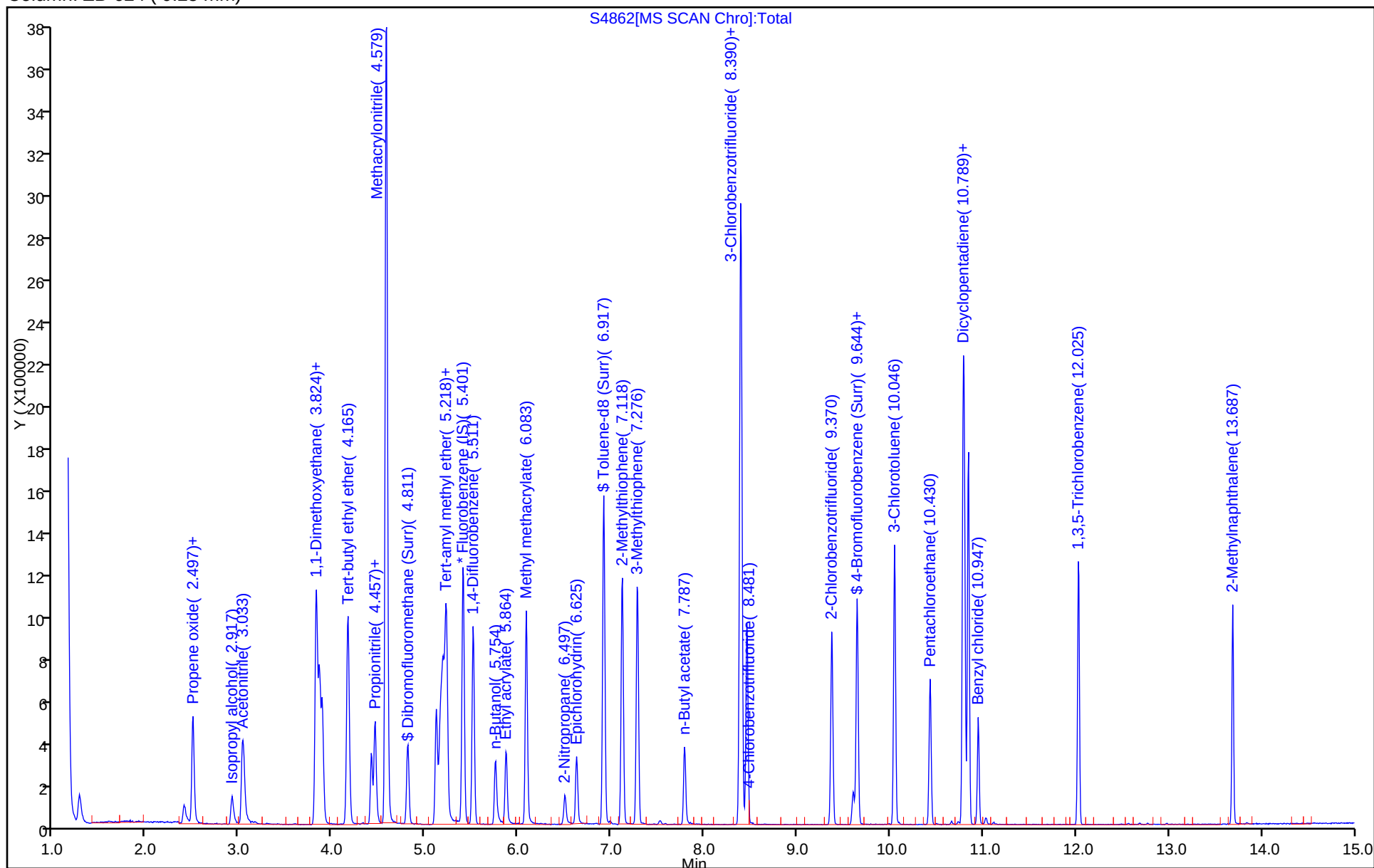
Dil. Factor: 1.0000

ALS Bottle#: 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\20151109-48176.b\S4478.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Nov-2015 16:49:30 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0048176-003
Operator ID: LH Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Nov-2015 15:39:45 Calib Date: 09-Nov-2015 23:46:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: HillL

Date: 09-Nov-2015 17:05:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.923	3.923	0.000	0	225435	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00049

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4478.D

Injection Date: 09-Nov-2015 16:49:30

Instrument ID: HP5973S

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 35 Worklist Smp#: 3

Injection Vol: 1.0 uL

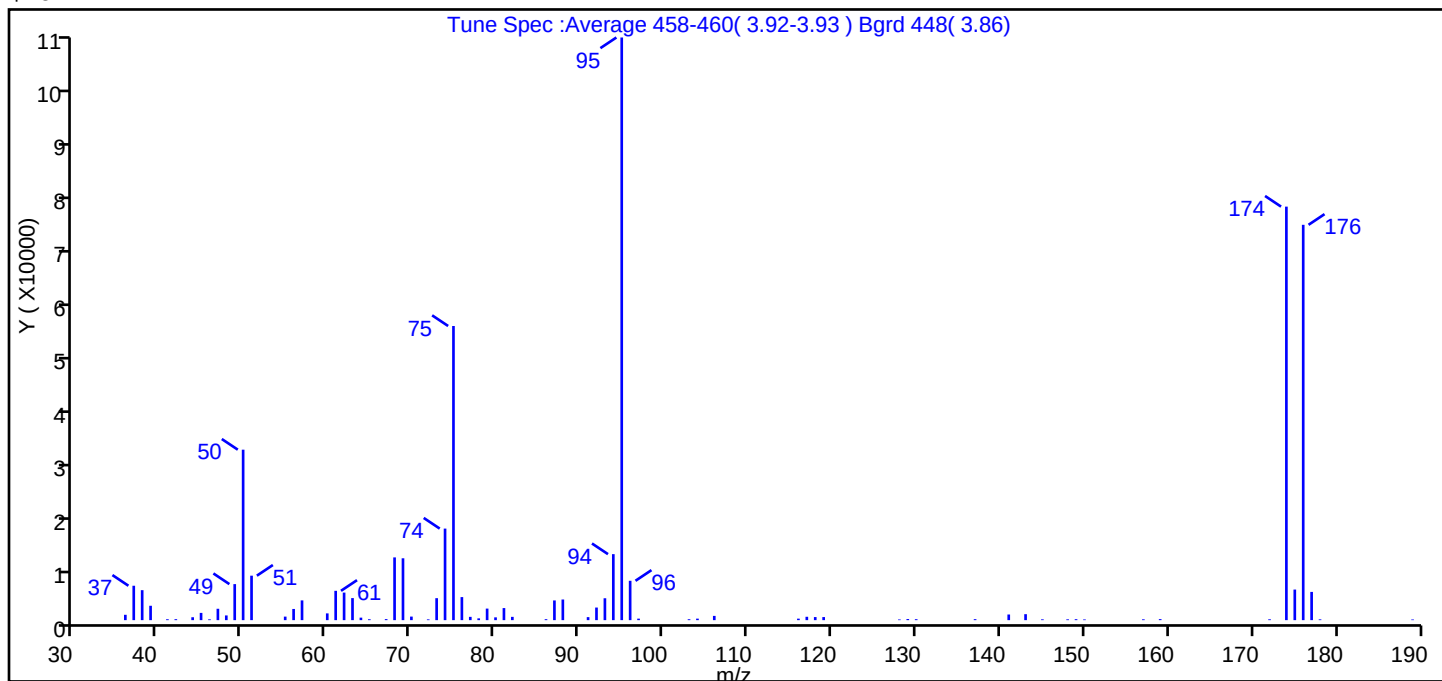
Dil. Factor: 1.0000

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	29.3
75	30 to 60% of m/z 95	50.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.0
175	5 to 9% of m/z 174	5.2 (7.4)
176	Greater than 95% but less than 101% of m/z 174	67.8 (95.6)
177	5 to 9% of m/z 176	4.8 (7.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4478.D\S-8260.rslt\spectra.d
Injection Date: 09-Nov-2015 16:49:30
Spectrum: Tune Spec :Average 458-460(3.92-3.93) Bgrd 448(3.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	943	62.00	4861	86.00	167	130.00	165
37.00	6070	63.00	3890	87.00	3477	137.00	172
38.00	5289	64.00	442	88.00	3642	141.00	995
39.00	2536	65.00	156	91.00	531	143.00	1053
41.00	158	67.00	181	92.00	2223	145.00	142
42.00	169	68.00	11071	93.00	3863	148.00	143
44.00	513	69.00	10915	94.00	11645	149.00	166
45.00	1278	70.00	627	95.00	102816	150.00	124
46.00	143	72.00	136	96.00	6944	157.00	144
47.00	2007	73.00	3877	97.00	265	159.00	180
48.00	831	74.00	16154	103.00	162	172.00	149
49.00	6358	75.00	51904	104.00	265	174.00	72968
50.00	30080	76.00	4066	106.00	749	175.00	5396
51.00	7846	77.00	580	116.00	264	176.00	69760
55.00	622	78.00	313	117.00	593	177.00	4983
56.00	1973	79.00	2037	118.00	543	178.00	138
57.00	3485	80.00	493	119.00	543	189.00	116
60.00	1192	81.00	2129	128.00	121		
61.00	5174	82.00	579	129.00	192		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4772.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Nov-2015 09:14:30 ALS Bottle#: 61 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0048379-003
Operator ID: GTG Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Nov-2015 09:29:59 Calib Date: 09-Nov-2015 23:46:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: goliszekg

Date: 16-Nov-2015 09:29:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB 95 3.954 3.954 0.000 0 346026 NR NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00049

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4772.D

Injection Date: 16-Nov-2015 09:14:30

Instrument ID: HP5973S

Lims ID: BFB

Client ID:

Operator ID: GTG

ALS Bottle#: 61 Worklist Smp#: 3

Injection Vol: 1.0 uL

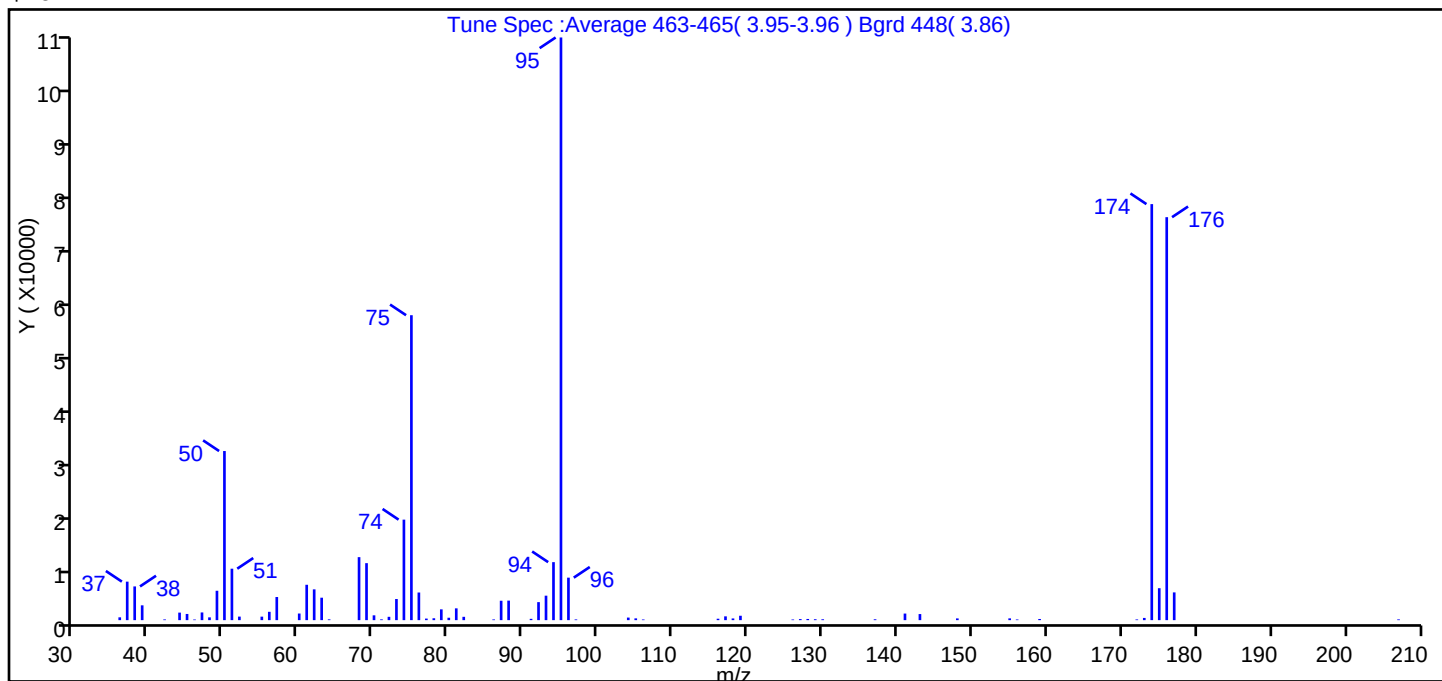
Dil. Factor: 1.0000

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	29.0
75	30 to 60% of m/z 95	52.3
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	71.4
175	5 to 9% of m/z 174	5.5 (7.7)
176	Greater than 95% but less than 101% of m/z 174	69.2 (96.9)
177	5 to 9% of m/z 176	4.8 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4772.D\S-8260.rslt\spectra.d
Injection Date: 16-Nov-2015 09:14:30
Spectrum: Tune Spec :Average 463-465(3.95-3.96) Bgrd 448(3.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	528	62.00	5767	87.00	3634	129.00	170
37.00	7210	63.00	4204	88.00	3657	130.00	161
38.00	6315	64.00	147	91.00	245	137.00	160
39.00	2774	68.00	11798	92.00	3374	141.00	1233
42.00	136	69.00	10673	93.00	4582	143.00	1140
44.00	1411	70.00	901	94.00	10862	148.00	325
45.00	1157	71.00	145	95.00	109128	155.00	333
46.00	120	72.00	623	96.00	7958	156.00	125
47.00	1441	73.00	3957	97.00	135	159.00	216
48.00	521	74.00	18824	104.00	480	172.00	133
49.00	5502	75.00	57112	105.00	333	173.00	414
50.00	31672	76.00	5176	106.00	123	174.00	77920
51.00	9635	77.00	293	116.00	265	175.00	5982
52.00	664	78.00	353	117.00	711	176.00	75472
55.00	654	79.00	2021	118.00	319	177.00	5197
56.00	1561	80.00	450	119.00	822	207.00	141
57.00	4332	81.00	2208	126.00	121		
60.00	1240	82.00	623	127.00	199		
61.00	6623	86.00	133	128.00	221		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4804.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Nov-2015 22:34:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0048406-001
Operator ID: SO Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Nov-2015 22:43:12 Calib Date: 09-Nov-2015 23:46:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 22:43:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.911	3.911	0.000	0	303463	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00049

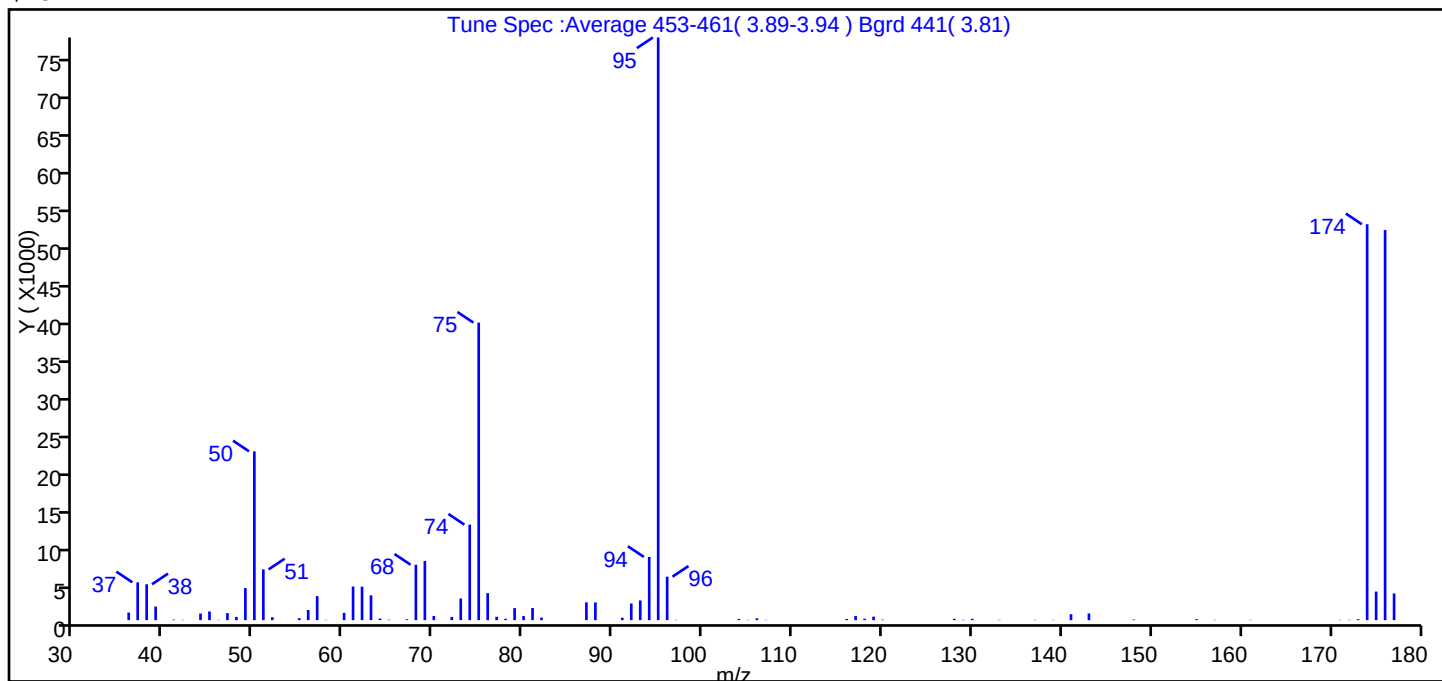
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4804.D
Injection Date: 16-Nov-2015 22:34:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: SO 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	29.0
75	30 to 60% of m/z 95	51.1
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	67.9
175	5 to 9% of m/z 174	4.9 (7.2)
176	Greater than 95% but less than 101% of m/z 174	67.0 (98.5)
177	5 to 9% of m/z 176	4.6 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4804.D\S-8260.rslt\spectra.d
Injection Date: 16-Nov-2015 22:34:30
Spectrum: Tune Spec :Average 453-461(3.89-3.94) Bgrd 441(3.81)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1015	61.00	4498	87.00	2380	130.00	179
37.00	5057	62.00	4482	88.00	2366	133.00	47
38.00	4796	63.00	3318	91.00	322	137.00	46
39.00	1815	64.00	210	92.00	2228	139.00	40
41.00	83	65.00	59	93.00	2638	141.00	790
42.00	40	67.00	121	94.00	8452	143.00	890
44.00	883	68.00	7408	95.00	77896	148.00	84
45.00	1161	69.00	7903	96.00	5808	155.00	133
46.00	40	70.00	552	97.00	46	157.00	43
47.00	935	72.00	430	104.00	164	161.00	44
48.00	430	73.00	2888	105.00	41	171.00	47
49.00	4290	74.00	12767	106.00	249	172.00	48
50.00	22568	75.00	39776	107.00	40	173.00	129
51.00	6789	76.00	3610	116.00	160	174.00	52928
52.00	389	77.00	449	117.00	564	175.00	3820
55.00	263	78.00	180	118.00	192	176.00	52152
56.00	1354	79.00	1610	119.00	466	177.00	3572
57.00	3209	80.00	547	120.00	70		
58.00	39	81.00	1629	128.00	183		
60.00	969	82.00	345	129.00	50		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4830.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Nov-2015 09:37:30 ALS Bottle#: 27 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0048414-001
Operator ID: JG Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Nov-2015 09:59:24 Calib Date: 09-Nov-2015 23:46:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: gentilej

Date: 17-Nov-2015 09:59:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.905	3.905	0.000	0	214205	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00049

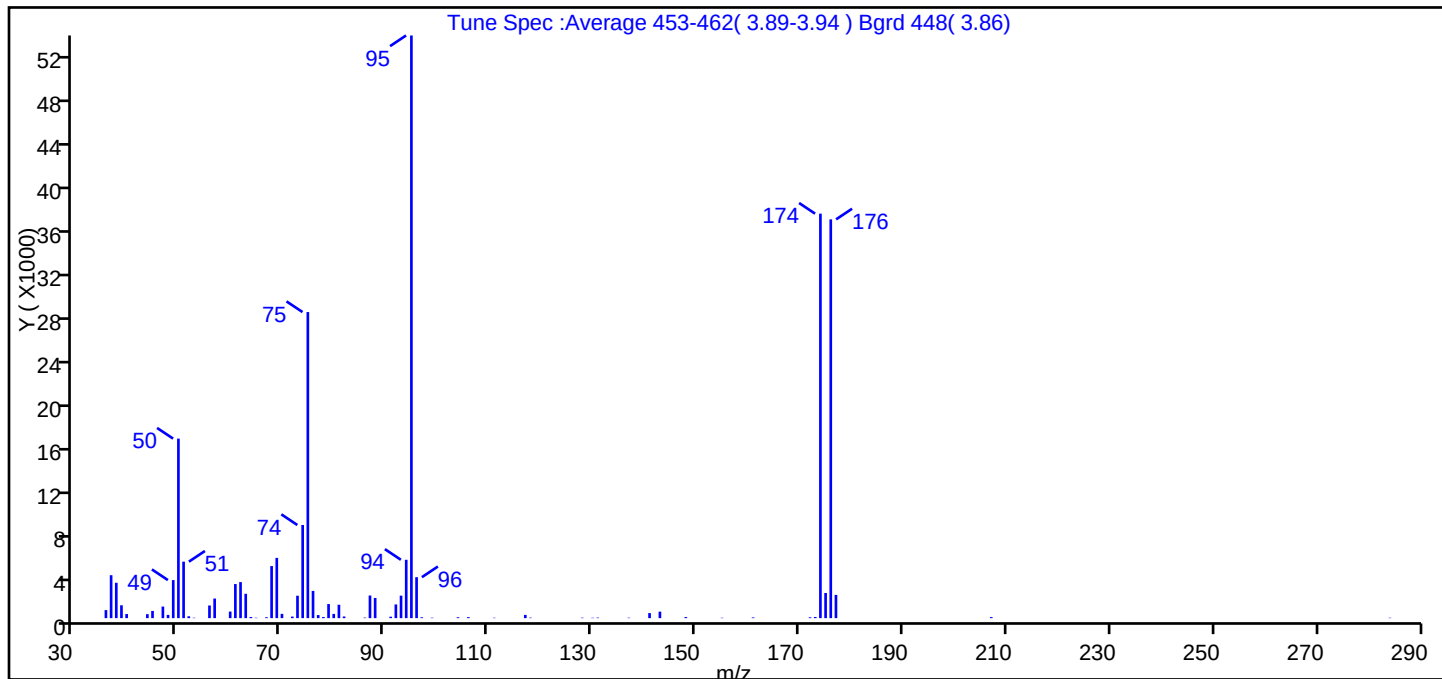
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4830.D
Injection Date: 17-Nov-2015 09:37:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: JG ALS Bottle#: 27 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	30.8
75	30 to 60% of m/z 95	52.5
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	69.4
175	5 to 9% of m/z 174	4.3 (6.2)
176	Greater than 95% but less than 101% of m/z 174	68.4 (98.6)
177	5 to 9% of m/z 176	4.0 (5.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4830.D\S-8260.rslt\spectra.d
Injection Date: 17-Nov-2015 09:37:30
Spectrum: Tune Spec :Average 453-462(3.89-3.94) Bgrd 448(3.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	734	62.00	3286	82.00	150	130.00	36
37.00	3913	63.00	2220	86.00	49	131.00	49
38.00	3223	64.00	101	87.00	2062	137.00	40
39.00	1172	65.00	35	88.00	1840	141.00	460
40.00	375	67.00	81	91.00	130	143.00	593
44.00	364	68.00	4746	92.00	1248	148.00	98
45.00	657	69.00	5491	93.00	2050	155.00	35
47.00	1056	70.00	390	94.00	5318	161.00	65
48.00	297	72.00	141	95.00	53104	172.00	74
49.00	3469	73.00	2043	96.00	3734	173.00	105
50.00	16363	74.00	8489	97.00	78	174.00	36864
51.00	5148	75.00	27896	99.00	41	175.00	2293
52.00	169	76.00	2481	104.00	79	176.00	36344
53.00	37	77.00	281	106.00	91	177.00	2117
56.00	1153	78.00	101	111.00	36	207.00	95
57.00	1788	79.00	1282	117.00	294	284.00	37
60.00	598	80.00	385	118.00	45		
61.00	3108	81.00	1222	128.00	42		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4860.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Nov-2015 21:17:30 ALS Bottle#: 57 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0048440-001
Operator ID: SO Instrument ID: HP5973S
Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Nov-2015 21:27:30 Calib Date: 09-Nov-2015 23:46:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 21:27:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 61 BFB	95	3.911	3.911	0.000	0	297481	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00049

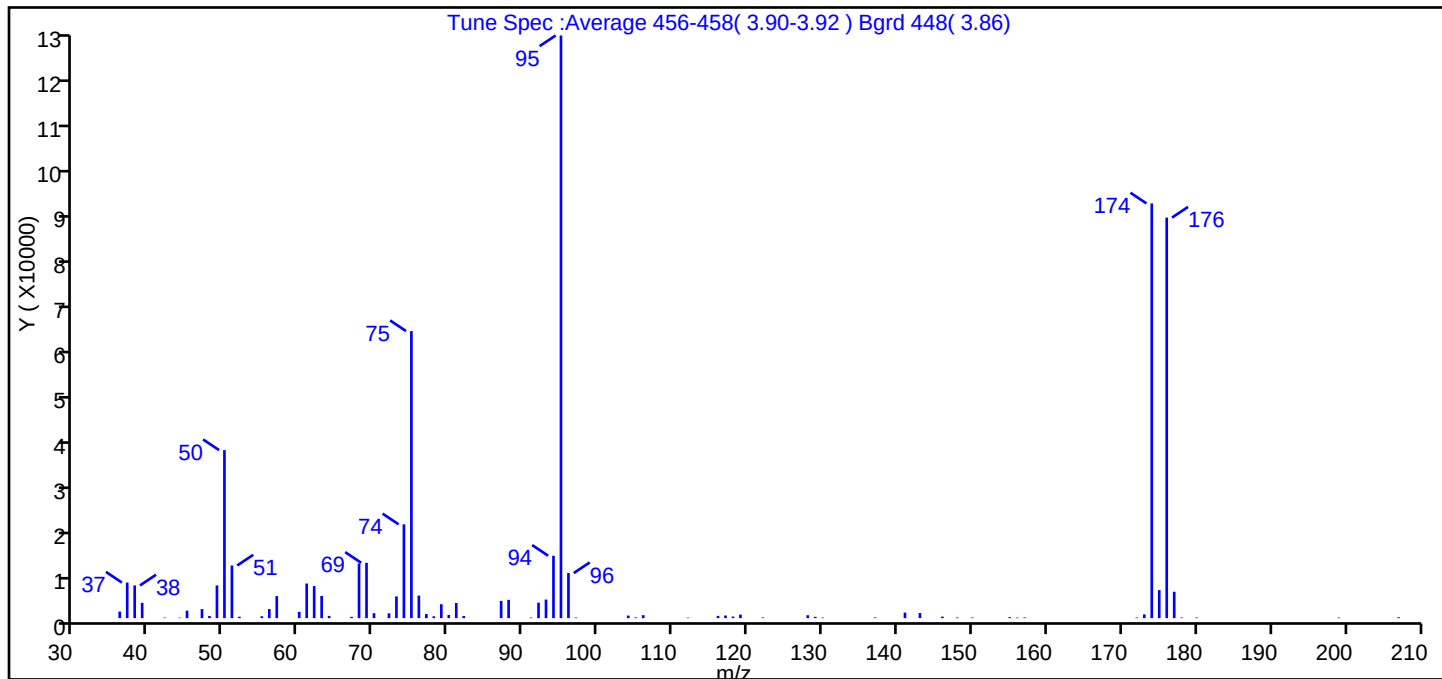
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4860.D
Injection Date: 17-Nov-2015 21:17:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: SO 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	28.8
75	30 to 60% of m/z 95	49.3
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.6 (0.9)
174	50 to 120% of m/z 95	71.2
175	5 to 9% of m/z 174	4.8 (6.8)
176	Greater than 95% but less than 101% of m/z 174	68.7 (96.6)
177	5 to 9% of m/z 176	4.5 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4860.D\S-8260.rslt\spectra.d
Injection Date: 17-Nov-2015 21:17:30
Spectrum: Tune Spec :Average 456-458(3.90-3.92) Bgrd 448(3.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1461	63.00	4938	91.00	133	137.00	157
37.00	7922	64.00	494	92.00	3440	141.00	1237
38.00	7282	67.00	290	93.00	4139	143.00	1138
39.00	3404	68.00	12171	94.00	13883	146.00	340
42.00	124	69.00	12310	95.00	129608	148.00	148
44.00	105	70.00	1098	96.00	10027	150.00	142
45.00	1669	72.00	1072	97.00	144	155.00	217
47.00	2020	73.00	4834	104.00	569	156.00	132
48.00	485	74.00	20872	105.00	162	157.00	146
49.00	7279	75.00	63856	106.00	672	172.00	143
50.00	37376	76.00	5023	112.00	123	173.00	840
51.00	11712	77.00	920	116.00	500	174.00	92256
52.00	309	78.00	409	117.00	591	175.00	6235
55.00	416	79.00	3095	118.00	356	176.00	89104
56.00	2030	80.00	719	119.00	785	177.00	5871
57.00	4903	81.00	3369	122.00	163	178.00	137
60.00	1410	82.00	476	128.00	654	180.00	140
61.00	7701	87.00	3830	129.00	297	199.00	125
62.00	7135	88.00	4071	130.00	127	207.00	197

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-275144/8

Matrix: Water Lab File ID: S4777.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 11:15

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-275144/8
 Matrix: Water Lab File ID: S4777.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 11:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4777.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 16-Nov-2015 11:15:30 ALS Bottle#: 66 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0048379-008
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 11:43:06 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK031

First Level Reviewer: goliszekg

Date: 16-Nov-2015 11:43:24

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	5.401	5.401	0.000	97	194190	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	356020	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	96	316381	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	62	203400	27.2	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	164119	27.2	27.2	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	849431	27.2	26.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	228970	27.2	26.3	
10 Dichlorodifluoromethane	85		1.249					ND	
11 Chlorodifluoromethane	51		1.267					ND	
12 Chloromethane	50		1.407					ND	
13 Vinyl chloride	62		1.505					ND	
151 Butadiene	54		1.535					ND	
14 Bromomethane	94		1.797					ND	
15 Chloroethane	64		1.906					ND	
16 Dichlorofluoromethane	67		2.126					ND	
17 Trichlorofluoromethane	101		2.138					ND	
148 Ethanol	45		2.412					ND	
18 Ethyl ether	59		2.418					ND	
19 Propene oxide	58		2.497					ND	
20 Acrolein	56		2.582					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649					ND	
22 1,1-Dichloroethene	96		2.655					ND	
23 Acetone	43		2.734					ND	
25 Iodomethane	142		2.814					ND	
26 Carbon disulfide	76		2.850					ND	
24 Isopropyl alcohol	45		2.923					ND	
28 3-Chloro-1-propene	41		2.996					ND	
27 Methyl acetate	43		3.039					ND	
30 Methylene Chloride	84		3.136					ND	
31 2-Methyl-2-propanol	59		3.301					ND	
32 Methyl tert-butyl ether	73		3.368					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.380					ND	
33 Acrylonitrile	53		3.404					ND	
35 Hexane	57		3.593					ND	
139 Halothane	117		3.760					ND	
39 1,1-Dichloroethane	63		3.788					ND	
36 Isopropyl ether	45		3.824					ND	
37 Vinyl acetate	43		3.842					ND	
40 2-Chloro-1,3-butadiene	53		3.861					ND	
38 1,1-Dimethoxyethane	75		3.885					ND	
41 Tert-butyl ethyl ether	59		4.165					ND	
44 2,2-Dichloropropane	77		4.311					ND	
45 cis-1,2-Dichloroethene	96		4.342					ND	
43 2-Butanone (MEK)	43		4.372					ND	
42 Ethyl acetate	43		4.415					ND	
46 Propionitrile	54		4.457					ND	
48 Chlorobromomethane	128		4.579					ND	
47 Methacrylonitrile	41		4.579					ND	
49 Tetrahydrofuran	42		4.609					ND	
50 Chloroform	83		4.652					ND	
51 1,1,1-Trichloroethane	97		4.780					ND	
52 Cyclohexane	56		4.804					ND	
55 Carbon tetrachloride	117		4.926					ND	
54 1,1-Dichloropropene	75		4.938					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.994					ND	
53 Isobutyl alcohol	43		5.133					ND	
57 Benzene	78		5.133					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.170					ND	
58 1,2-Dichloroethane	62		5.188					ND	
147 t-Amyl alcohol	59		5.194					ND	
56 Tert-amyl methyl ether	73		5.224					ND	
59 n-Heptane	43		5.340					ND	
1 1,4-Difluorobenzene	114		5.511					ND	
62 Trichloroethene	95		5.748					ND	
60 n-Butanol	56		5.754					ND	
142 Ethyl acrylate	55		5.864					ND	
64 Methylcyclohexane	83		5.888					ND	
65 1,2-Dichloropropane	63		5.979					ND	
63 Methyl methacrylate	41		6.083					ND	
67 Dibromomethane	93		6.107					ND	
66 1,4-Dioxane	88		6.125					ND	
68 Dichlorobromomethane	83		6.259					ND	
70 2-Nitropropane	43		6.497					ND	
69 2-Chloroethyl vinyl ether	63		6.545					ND	
71 Epichlorohydrin	57		6.625					ND	
72 cis-1,3-Dichloropropene	75		6.685					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825					ND	
74 Toluene	92		6.984					ND	
76 2-Methylthiophene	97		7.118					ND	
77 trans-1,3-Dichloropropene	75		7.246					ND	
78 3-Methylthiophene	97		7.282					ND	
75 Ethyl methacrylate	69		7.306					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
79 1,1,2-Trichloroethane	83		7.434					ND	
81 Tetrachloroethene	166		7.526					ND	
82 1,3-Dichloropropane	76		7.599					ND	
80 2-Hexanone	43		7.666					ND	
155 n-Butyl acetate	43		7.787					ND	
83 Chlorodibromomethane	129		7.830					ND	
84 Ethylene Dibromide	107		7.940					ND	
146 1-Chlorohexane	55		8.384					ND	
85 3-Chlorobenzotrifluoride	180		8.396					ND	
87 Chlorobenzene	112		8.427					ND	
86 4-Chlorobenzotrifluoride	180		8.457					ND	
89 1,1,1,2-Tetrachloroethane	131		8.524					ND	
88 Ethylbenzene	91		8.524					ND	
90 m-Xylene & p-Xylene	106		8.646					ND	
91 o-Xylene	106		9.072					ND	
92 Styrene	104		9.096					ND	
95 Bromoform	173		9.334					ND	
93 2-Chlorobenzotrifluoride	180		9.370					ND	
94 Isopropylbenzene	105		9.462					ND	
96 Cyclohexanone	55		9.602					ND	
101 Bromobenzene	156		9.796					ND	
97 1,1,2,2-Tetrachloroethane	83		9.833					ND	
100 1,2,3-Trichloropropane	110		9.869					ND	
99 N-Propylbenzene	91		9.888					ND	
98 trans-1,4-Dichloro-2-buten	53		9.888					ND	
103 2-Chlorotoluene	126		9.985					ND	
104 3-Chlorotoluene	126		10.046					ND	
102 1,3,5-Trimethylbenzene	105		10.064					ND	
105 4-Chlorotoluene	126		10.095					ND	
106 tert-Butylbenzene	134		10.387					ND	
108 Pentachloroethane	167		10.430					ND	
107 1,2,4-Trimethylbenzene	105		10.436					ND	
109 sec-Butylbenzene	105		10.594					ND	
111 1,3-Dichlorobenzene	146		10.722					ND	
110 4-Isopropyltoluene	119		10.734					ND	
114 Dicyclopentadiene	66		10.801					ND	
113 1,4-Dichlorobenzene	146		10.807					ND	
112 1,2,3-Trimethylbenzene	105		10.844					ND	
150 Benzyl chloride	126		10.947					ND	
115 n-Butylbenzene	91		11.117					ND	
116 1,2-Dichlorobenzene	146		11.160					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878					ND	
118 1,3,5-Trichlorobenzene	180		12.031					ND	
119 1,2,4-Trichlorobenzene	180		12.566					ND	
120 Hexachlorobutadiene	225		12.688					ND	
121 Naphthalene	128		12.773					ND	
122 1,2,3-Trichlorobenzene	180		12.974					ND	
149 2-Methylnaphthalene	142		13.687					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	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
136 Nitrobenzene	77		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		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	1.529	1.528	0.001	3	3726		0	
T 156 1-Chloro-1-fluoroethane TI	47	5.401	2.000	3.401	1	1661		0	
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_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4777.D

Injection Date: 16-Nov-2015 11:15:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

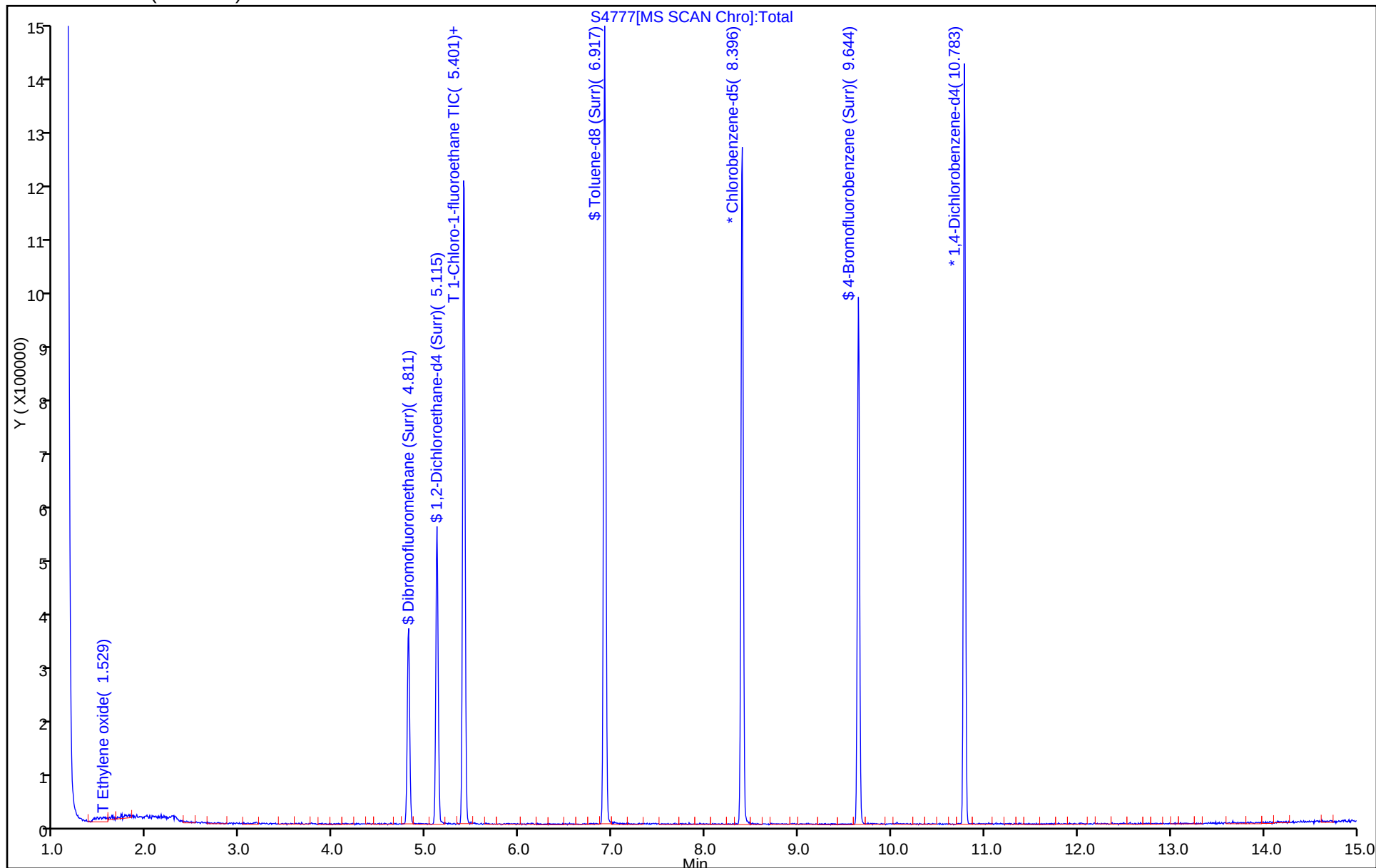
Dil. Factor: 1.0000

ALS Bottle#: 66

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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-275311/6

Matrix: Water Lab File ID: S4809.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 00:29

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-275311/6
 Matrix: Water Lab File ID: S4809.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 00:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275311 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4809.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 17-Nov-2015 00:29:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0048406-006
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 00:54:49 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 17-Nov-2015 00:54:49

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	5.407	5.401	0.006	96	197227	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	89	370950	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.783	0.006	96	320228	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	-0.001	54	207338	27.2	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	168013	27.2	27.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	861334	27.2	26.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	235448	27.2	26.0	
10 Dichlorodifluoromethane	85		1.249					ND	
11 Chlorodifluoromethane	51		1.273					ND	
12 Chloromethane	50		1.407					ND	
13 Vinyl chloride	62		1.511					ND	
151 Butadiene	54		1.535					ND	
14 Bromomethane	94		1.815					ND	
15 Chloroethane	64		1.913					ND	
16 Dichlorofluoromethane	67		2.132					ND	
17 Trichlorofluoromethane	101		2.144					ND	
148 Ethanol	45		2.406					ND	
18 Ethyl ether	59		2.418					ND	
19 Propene oxide	58		2.497					ND	
20 Acrolein	56		2.576					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649					ND	
22 1,1-Dichloroethene	96		2.649					ND	
23 Acetone	43		2.728					ND	
25 Iodomethane	142		2.808					ND	
26 Carbon disulfide	76		2.850					ND	
24 Isopropyl alcohol	45		2.917					ND	
28 3-Chloro-1-propene	41		2.996					ND	
27 Methyl acetate	43		3.039					ND	
30 Methylene Chloride	84		3.136					ND	
31 2-Methyl-2-propanol	59		3.295					ND	
32 Methyl tert-butyl ether	73		3.368					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.374					ND	
33 Acrylonitrile	53		3.398					ND	
35 Hexane	57		3.593					ND	
139 Halothane	117		3.760					ND	
39 1,1-Dichloroethane	63		3.788					ND	
36 Isopropyl ether	45		3.824					ND	
37 Vinyl acetate	43		3.842					ND	
40 2-Chloro-1,3-butadiene	53		3.855					ND	
38 1,1-Dimethoxyethane	75		3.885					ND	
41 Tert-butyl ethyl ether	59		4.165					ND	
44 2,2-Dichloropropane	77		4.317					ND	
45 cis-1,2-Dichloroethene	96		4.342					ND	
43 2-Butanone (MEK)	43		4.372					ND	
46 Propionitrile	54		4.457					ND	
48 Chlorobromomethane	128		4.573					ND	
47 Methacrylonitrile	41		4.573					ND	
49 Tetrahydrofuran	42		4.603					ND	
50 Chloroform	83		4.652					ND	
51 1,1,1-Trichloroethane	97		4.786					ND	
52 Cyclohexane	56		4.804					ND	
55 Carbon tetrachloride	117		4.926					ND	
54 1,1-Dichloropropene	75		4.938					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.994					ND	
53 Isobutyl alcohol	43		5.127					ND	
57 Benzene	78		5.133					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.164					ND	
147 t-Amyl alcohol	59		5.188					ND	
56 Tert-amyl methyl ether	73		5.218					ND	
59 n-Heptane	43		5.340					ND	
1 1,4-Difluorobenzene	114		5.511					ND	
62 Trichloroethene	95		5.748					ND	
60 n-Butanol	56		5.754					ND	
142 Ethyl acrylate	55		5.864					ND	
64 Methylcyclohexane	83		5.888					ND	
65 1,2-Dichloropropane	63		5.979					ND	
63 Methyl methacrylate	41		6.083					ND	
67 Dibromomethane	93		6.107					ND	
66 1,4-Dioxane	88		6.119					ND	
68 Dichlorobromomethane	83		6.259					ND	
70 2-Nitropropane	43		6.497					ND	
69 2-Chloroethyl vinyl ether	63		6.545					ND	
71 Epichlorohydrin	57		6.625					ND	
72 cis-1,3-Dichloropropene	75		6.685					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.826					ND	
74 Toluene	92		6.984					ND	
76 2-Methylthiophene	97		7.118					ND	
77 trans-1,3-Dichloropropene	75		7.246					ND	
78 3-Methylthiophene	97		7.282					ND	
75 Ethyl methacrylate	69		7.306					ND	
79 1,1,2-Trichloroethane	83		7.434					ND	
81 Tetrachloroethene	166		7.526					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
82 1,3-Dichloropropane	76		7.593					ND	
80 2-Hexanone	43		7.666					ND	
155 n-Butyl acetate	43		7.787					ND	
83 Chlorodibromomethane	129		7.830					ND	
84 Ethylene Dibromide	107		7.940					ND	
146 1-Chlorohexane	55		8.384					ND	
85 3-Chlorobenzotrifluoride	180		8.396					ND	
87 Chlorobenzene	112		8.427					ND	
86 4-Chlorobenzotrifluoride	180		8.463					ND	
89 1,1,1,2-Tetrachloroethane	131		8.518					ND	
88 Ethylbenzene	91		8.524					ND	
90 m-Xylene & p-Xylene	106		8.646					ND	
91 o-Xylene	106		9.072					ND	
92 Styrene	104		9.096					ND	
95 Bromoform	173		9.334					ND	
93 2-Chlorobenzotrifluoride	180		9.370					ND	
94 Isopropylbenzene	105		9.462					ND	
96 Cyclohexanone	55		9.602					ND	
101 Bromobenzene	156		9.796					ND	
97 1,1,2,2-Tetrachloroethane	83		9.833					ND	
100 1,2,3-Trichloropropane	110		9.869					ND	
98 trans-1,4-Dichloro-2-buten	53		9.888					ND	
99 N-Propylbenzene	91		9.888					ND	
103 2-Chlorotoluene	126		9.985					ND	
104 3-Chlorotoluene	126		10.046					ND	
102 1,3,5-Trimethylbenzene	105		10.064					ND	
105 4-Chlorotoluene	126		10.095					ND	
106 tert-Butylbenzene	134		10.387					ND	
108 Pentachloroethane	167		10.430					ND	
107 1,2,4-Trimethylbenzene	105		10.436					ND	
109 sec-Butylbenzene	105		10.594					ND	
111 1,3-Dichlorobenzene	146		10.722					ND	
110 4-Isopropyltoluene	119		10.734					ND	
114 Dicyclopentadiene	66		10.801					ND	
113 1,4-Dichlorobenzene	146		10.807					ND	
112 1,2,3-Trimethylbenzene	105		10.844					ND	
150 Benzyl chloride	126		10.947					ND	
115 n-Butylbenzene	91		11.117					ND	
116 1,2-Dichlorobenzene	146		11.160					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878					ND	
118 1,3,5-Trichlorobenzene	180		12.031					ND	
119 1,2,4-Trichlorobenzene	180		12.566					ND	
120 Hexachlorobutadiene	225		12.688					ND	
121 Naphthalene	128		12.773					ND	
122 1,2,3-Trichlorobenzene	180		12.974					ND	
149 2-Methylnaphthalene	142		13.687					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	
135 Hexachloroethane	117		0.000					ND	
134 Pentachloroethane 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	
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	1.541	1.528	0.013	57	2317		0	
T 156 1-Chloro-1-fluoroethane TI	47	5.401	2.002	3.401	12	2005		0	
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_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4809.D

Injection Date: 17-Nov-2015 00:29:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

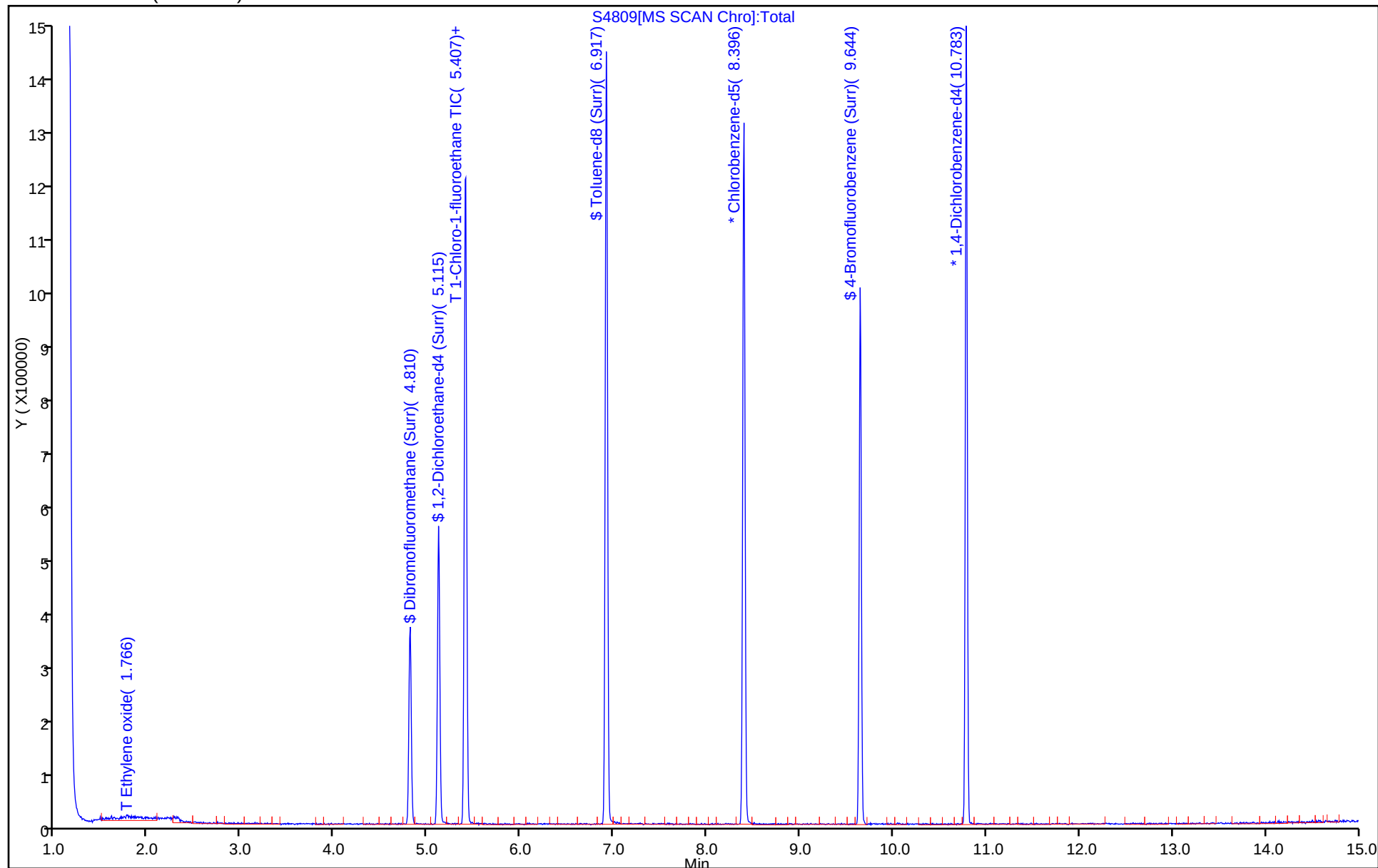
Dil. Factor: 1.0000

ALS Bottle#: 6

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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-275377/6

Matrix: Water Lab File ID: S4835.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 11:47

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275377 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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-275377/6

Matrix: Water Lab File ID: S4835.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 11:47

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275377 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4835.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 17-Nov-2015 11:47:30 ALS Bottle#: 32 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0048414-006
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 20:45:09 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 20:45:09

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	5.401	5.401	0.000	97	182286	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.390	8.390	0.000	90	347230	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	298511	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.804	0.006	65	199525	27.2	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	157330	27.2	27.8	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	820788	27.2	26.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	219987	27.2	25.9	
10 Dichlorodifluoromethane	85		1.249					ND	
11 Chlorodifluoromethane	51		1.273					ND	
12 Chloromethane	50		1.407					ND	
13 Vinyl chloride	62		1.511					ND	
151 Butadiene	54		1.541					ND	
14 Bromomethane	94		1.803					ND	
15 Chloroethane	64		1.913					ND	
16 Dichlorofluoromethane	67		2.132					ND	
17 Trichlorofluoromethane	101		2.144					ND	
148 Ethanol	45		2.418					ND	
18 Ethyl ether	59		2.424					ND	
19 Propene oxide	58		2.497					ND	
20 Acrolein	56		2.582					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.661					ND	
22 1,1-Dichloroethene	96		2.661					ND	
23 Acetone	43		2.740					ND	
25 Iodomethane	142		2.820					ND	
26 Carbon disulfide	76		2.850					ND	
24 Isopropyl alcohol	45		2.929					ND	
28 3-Chloro-1-propene	41		3.002					ND	
27 Methyl acetate	43		3.045					ND	
30 Methylene Chloride	84		3.173					ND	
31 2-Methyl-2-propanol	59		3.301					ND	
32 Methyl tert-butyl ether	73		3.368					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.380					ND	
33 Acrylonitrile	53		3.404					ND	
35 Hexane	57		3.593					ND	
139 Halothane	117		3.760					ND	
39 1,1-Dichloroethane	63		3.788					ND	
36 Isopropyl ether	45		3.824					ND	
37 Vinyl acetate	43		3.848					ND	
40 2-Chloro-1,3-butadiene	53		3.855					ND	
38 1,1-Dimethoxyethane	75		3.891					ND	
41 Tert-butyl ethyl ether	59		4.165					ND	
44 2,2-Dichloropropane	77		4.317					ND	
45 cis-1,2-Dichloroethene	96		4.348					ND	
43 2-Butanone (MEK)	43		4.372					ND	
42 Ethyl acetate	43		4.415					ND	
46 Propionitrile	54		4.457					ND	
48 Chlorobromomethane	128		4.573					ND	
47 Methacrylonitrile	41		4.579					ND	
49 Tetrahydrofuran	42		4.609					ND	
50 Chloroform	83		4.652					ND	
51 1,1,1-Trichloroethane	97		4.780					ND	
52 Cyclohexane	56		4.804					ND	
55 Carbon tetrachloride	117		4.926					ND	
54 1,1-Dichloropropene	75		4.932					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.994					ND	
53 Isobutyl alcohol	43		5.133					ND	
57 Benzene	78		5.133					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.170					ND	
58 1,2-Dichloroethane	62		5.188					ND	
147 t-Amyl alcohol	59		5.194					ND	
56 Tert-amyl methyl ether	73		5.224					ND	
59 n-Heptane	43		5.340					ND	
1 1,4-Difluorobenzene	114		5.511					ND	
62 Trichloroethene	95		5.748					ND	
60 n-Butanol	56		5.754					ND	
142 Ethyl acrylate	55		5.864					ND	
64 Methylcyclohexane	83		5.888					ND	
65 1,2-Dichloropropane	63		5.973					ND	
63 Methyl methacrylate	41		6.083					ND	
67 Dibromomethane	93		6.113					ND	
66 1,4-Dioxane	88		6.125					ND	
68 Dichlorobromomethane	83		6.265					ND	
70 2-Nitropropane	43		6.503					ND	
69 2-Chloroethyl vinyl ether	63		6.545					ND	
71 Epichlorohydrin	57		6.625					ND	
72 cis-1,3-Dichloropropene	75		6.685					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825					ND	
74 Toluene	92		6.984					ND	
76 2-Methylthiophene	97		7.118					ND	
77 trans-1,3-Dichloropropene	75		7.245					ND	
78 3-Methylthiophene	97		7.282					ND	
75 Ethyl methacrylate	69		7.306					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
79 1,1,2-Trichloroethane	83		7.434					ND	
81 Tetrachloroethene	166		7.519					ND	
82 1,3-Dichloropropane	76		7.599					ND	
80 2-Hexanone	43		7.666					ND	
155 n-Butyl acetate	43		7.787					ND	
83 Chlorodibromomethane	129		7.836					ND	
84 Ethylene Dibromide	107		7.940					ND	
146 1-Chlorohexane	55		8.384					ND	
85 3-Chlorobenzotrifluoride	180		8.396					ND	
87 Chlorobenzene	112		8.427					ND	
86 4-Chlorobenzotrifluoride	180		8.457					ND	
89 1,1,1,2-Tetrachloroethane	131		8.518					ND	
88 Ethylbenzene	91		8.524					ND	
90 m-Xylene & p-Xylene	106		8.646					ND	
91 o-Xylene	106		9.072					ND	
92 Styrene	104		9.096					ND	
95 Bromoform	173		9.328					ND	
93 2-Chlorobenzotrifluoride	180		9.376					ND	
94 Isopropylbenzene	105		9.455					ND	
96 Cyclohexanone	55		9.602					ND	
101 Bromobenzene	156		9.796					ND	
97 1,1,2,2-Tetrachloroethane	83		9.833					ND	
100 1,2,3-Trichloropropane	110		9.869					ND	
98 trans-1,4-Dichloro-2-buten	53		9.882					ND	
99 N-Propylbenzene	91		9.888					ND	
103 2-Chlorotoluene	126		9.985					ND	
104 3-Chlorotoluene	126		10.046					ND	
102 1,3,5-Trimethylbenzene	105		10.064					ND	
105 4-Chlorotoluene	126		10.095					ND	
106 tert-Butylbenzene	134		10.387					ND	
108 Pentachloroethane	167		10.430					ND	
107 1,2,4-Trimethylbenzene	105		10.436					ND	
109 sec-Butylbenzene	105		10.594					ND	
111 1,3-Dichlorobenzene	146		10.722					ND	
110 4-Isopropyltoluene	119		10.734					ND	
114 Dicyclopentadiene	66		10.795					ND	
113 1,4-Dichlorobenzene	146		10.807					ND	
112 1,2,3-Trimethylbenzene	105		10.844					ND	
150 Benzyl chloride	126		10.947					ND	
115 n-Butylbenzene	91		11.117					ND	
116 1,2-Dichlorobenzene	146		11.160					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878					ND	
118 1,3,5-Trichlorobenzene	180		12.025					ND	
119 1,2,4-Trichlorobenzene	180		12.566					ND	
120 Hexachlorobutadiene	225		12.682					ND	
121 Naphthalene	128		12.773					ND	
122 1,2,3-Trichlorobenzene	180		12.974					ND	
149 2-Methylnaphthalene	142		13.687					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	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Hexachloroethane	117		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
145 Ethylene oxide 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	1.535	1.528	0.007	72	1030		0	
T 156 1-Chloro-1-fluoroethane TI	47	6.911	2.000	4.911	17	697		0	
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_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4835.D

Injection Date: 17-Nov-2015 11:47:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

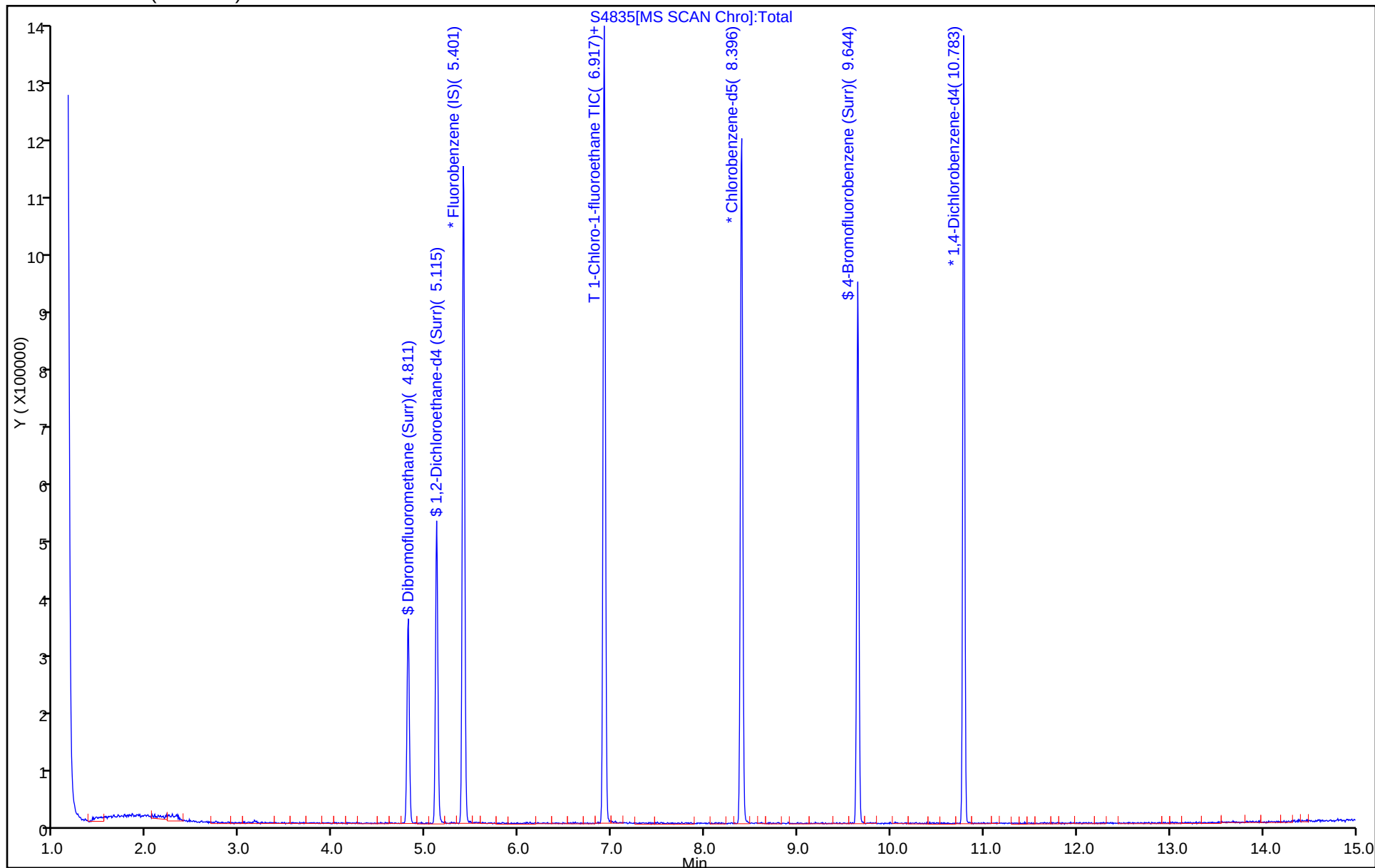
Dil. Factor: 1.0000

ALS Bottle#: 32

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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-275520/6

Matrix: Water Lab File ID: S4865.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 23:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275520 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.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-275520/6
 Matrix: Water Lab File ID: S4865.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 23:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275520 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		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4865.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 17-Nov-2015 23:14:30 ALS Bottle#: 62 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0048440-006
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 23:44:36 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: o'briens

Date: 17-Nov-2015 23:44:36

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	5.401	5.401	0.000	97	185829	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.390	0.006	88	359575	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	96	312289	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	0.000	57	213103	27.2	27.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	162174	27.2	28.1	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	94	882556	27.2	27.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	82	237571	27.2	27.0	
10 Dichlorodifluoromethane	85		1.249					ND	
11 Chlorodifluoromethane	51		1.273					ND	
12 Chloromethane	50		1.407					ND	
13 Vinyl chloride	62		1.517					ND	
151 Butadiene	54		1.535					ND	
14 Bromomethane	94		1.815					ND	
15 Chloroethane	64		1.913					ND	
16 Dichlorofluoromethane	67		2.138					ND	
17 Trichlorofluoromethane	101		2.144					ND	
148 Ethanol	45		2.400					ND	
18 Ethyl ether	59		2.418					ND	
19 Propene oxide	58		2.497					ND	
20 Acrolein	56		2.576					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.649					ND	
22 1,1-Dichloroethene	96		2.655					ND	
23 Acetone	43		2.734					ND	
25 Iodomethane	142		2.814					ND	
26 Carbon disulfide	76		2.850					ND	
24 Isopropyl alcohol	45		2.917					ND	
28 3-Chloro-1-propene	41		2.996					ND	
27 Methyl acetate	43		3.039					ND	
30 Methylene Chloride	84		3.136					ND	
31 2-Methyl-2-propanol	59		3.294					ND	
32 Methyl tert-butyl ether	73		3.368					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.374					ND	
33 Acrylonitrile	53		3.404					ND	
35 Hexane	57		3.593					ND	
139 Halothane	117		3.760					ND	
39 1,1-Dichloroethane	63		3.788					ND	
36 Isopropyl ether	45		3.824					ND	
37 Vinyl acetate	43		3.842					ND	
40 2-Chloro-1,3-butadiene	53		3.855					ND	
38 1,1-Dimethoxyethane	75		3.885					ND	
41 Tert-butyl ethyl ether	59		4.165					ND	
44 2,2-Dichloropropane	77		4.317					ND	
45 cis-1,2-Dichloroethene	96		4.342					ND	
43 2-Butanone (MEK)	43		4.366					ND	
42 Ethyl acetate	43		4.415					ND	
46 Propionitrile	54		4.457					ND	
48 Chlorobromomethane	128		4.573					ND	
47 Methacrylonitrile	41		4.579					ND	
49 Tetrahydrofuran	42		4.603					ND	
50 Chloroform	83		4.652					ND	
51 1,1,1-Trichloroethane	97		4.780					ND	
52 Cyclohexane	56		4.810					ND	
55 Carbon tetrachloride	117		4.926					ND	
54 1,1-Dichloropropene	75		4.938					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.994					ND	
53 Isobutyl alcohol	43		5.127					ND	
57 Benzene	78		5.133					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.164					ND	
147 t-Amyl alcohol	59		5.188					ND	
56 Tert-amyl methyl ether	73		5.224					ND	
59 n-Heptane	43		5.340					ND	
1 1,4-Difluorobenzene	114		5.511					ND	
62 Trichloroethene	95		5.748					ND	
60 n-Butanol	56		5.748					ND	
142 Ethyl acrylate	55		5.864					ND	
64 Methylcyclohexane	83		5.882					ND	
65 1,2-Dichloropropane	63		5.973					ND	
63 Methyl methacrylate	41		6.083					ND	
67 Dibromomethane	93		6.107					ND	
66 1,4-Dioxane	88		6.119					ND	
68 Dichlorobromomethane	83		6.265					ND	
70 2-Nitropropane	43		6.497					ND	
69 2-Chloroethyl vinyl ether	63		6.545					ND	
71 Epichlorohydrin	57		6.625					ND	
72 cis-1,3-Dichloropropene	75		6.685					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.825					ND	
74 Toluene	92		6.984					ND	
76 2-Methylthiophene	97		7.118					ND	
77 trans-1,3-Dichloropropene	75		7.245					ND	
78 3-Methylthiophene	97		7.282					ND	
75 Ethyl methacrylate	69		7.306					ND	
79 1,1,2-Trichloroethane	83		7.434					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
81 Tetrachloroethene	166		7.519					ND	
82 1,3-Dichloropropane	76		7.599					ND	
80 2-Hexanone	43		7.666					ND	
155 n-Butyl acetate	43		7.787					ND	
83 Chlorodibromomethane	129		7.830					ND	
84 Ethylene Dibromide	107		7.940					ND	
146 1-Chlorohexane	55		8.384					ND	
85 3-Chlorobenzotrifluoride	180		8.396					ND	
87 Chlorobenzene	112		8.427					ND	
86 4-Chlorobenzotrifluoride	180		8.457					ND	
89 1,1,1,2-Tetrachloroethane	131		8.518					ND	
88 Ethylbenzene	91		8.524					ND	
90 m-Xylene & p-Xylene	106		8.646					ND	
91 o-Xylene	106		9.072					ND	
92 Styrene	104		9.096					ND	
95 Bromoform	173		9.334					ND	
93 2-Chlorobenzotrifluoride	180		9.370					ND	
94 Isopropylbenzene	105		9.455					ND	
96 Cyclohexanone	55		9.602					ND	
101 Bromobenzene	156		9.796					ND	
97 1,1,2,2-Tetrachloroethane	83		9.833					ND	
100 1,2,3-Trichloropropane	110		9.869					ND	
98 trans-1,4-Dichloro-2-buten	53		9.888					ND	
99 N-Propylbenzene	91		9.888					ND	
103 2-Chlorotoluene	126		9.985					ND	
104 3-Chlorotoluene	126		10.046					ND	
102 1,3,5-Trimethylbenzene	105		10.064					ND	
105 4-Chlorotoluene	126		10.095					ND	
106 tert-Butylbenzene	134		10.387					ND	
108 Pentachloroethane	167		10.430					ND	
107 1,2,4-Trimethylbenzene	105		10.436					ND	
109 sec-Butylbenzene	105		10.594					ND	
111 1,3-Dichlorobenzene	146		10.722					ND	
110 4-Isopropyltoluene	119		10.734					ND	
114 Dicyclopentadiene	66		10.801					ND	
113 1,4-Dichlorobenzene	146		10.807					ND	
112 1,2,3-Trimethylbenzene	105		10.844					ND	
150 Benzyl chloride	126		10.947					ND	
115 n-Butylbenzene	91		11.117					ND	
116 1,2-Dichlorobenzene	146		11.160					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.878					ND	
118 1,3,5-Trichlorobenzene	180		12.031					ND	
119 1,2,4-Trichlorobenzene	180		12.566					ND	
120 Hexachlorobutadiene	225		12.688					ND	
121 Naphthalene	128		12.773					ND	
122 1,2,3-Trichlorobenzene	180		12.980					ND	
149 2-Methylnaphthalene	142		13.687					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	
145 Ethylene oxide TIC	1		0.000					ND	
137 Methyl acrylate	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
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	1.529	1.528	0.001	1	2409		0	
T 156 1-Chloro-1-fluoroethane TI	47	6.911	2.002	4.911	17	436		0	
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_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4865.D

Injection Date: 17-Nov-2015 23:14:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

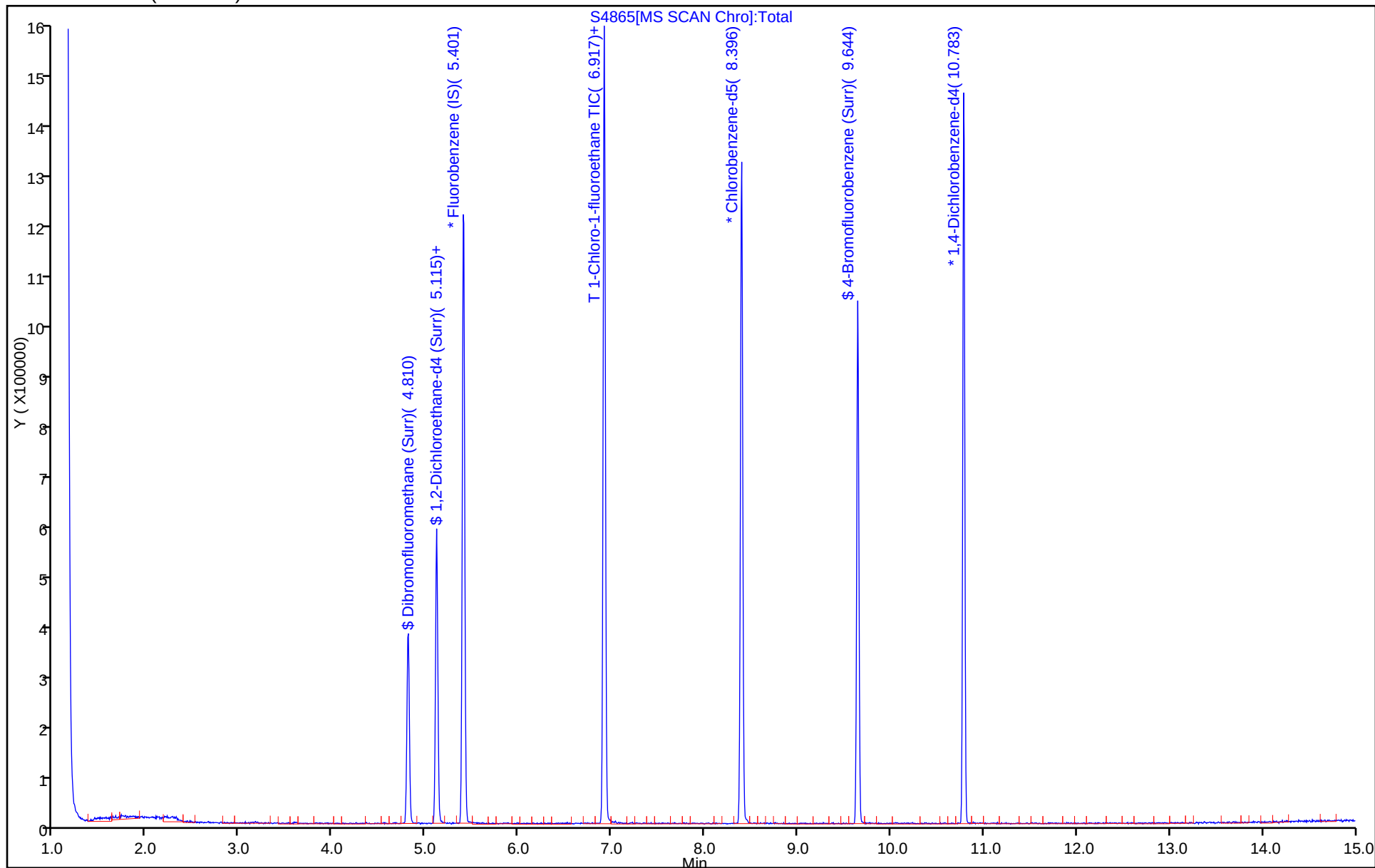
Dil. Factor: 1.0000

ALS Bottle#: 62

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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-275144/29

Matrix: Water Lab File ID: S4778.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 11:55

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.7		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.9		1.0	0.23
75-34-3	1,1-Dichloroethane	24.0		1.0	0.38
75-35-4	1,1-Dichloroethene	24.5		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.7		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	26.0		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	25.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.9		1.0	0.39
106-93-4	1,2-Dibromoethane	25.7		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.9		1.0	0.79
107-06-2	1,2-Dichloroethane	24.9		1.0	0.21
78-87-5	1,2-Dichloropropane	25.8		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	24.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.9		1.0	0.84
78-93-3	2-Butanone (MEK)	123		10	1.3
591-78-6	2-Hexanone	135		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	132		5.0	2.1
67-64-1	Acetone	128		10	3.0
71-43-2	Benzene	24.3		1.0	0.41
75-27-4	Bromodichloromethane	25.0		1.0	0.39
75-25-2	Bromoform	20.8		1.0	0.26
74-83-9	Bromomethane	18.9		1.0	0.69
75-15-0	Carbon disulfide	23.4		1.0	0.19
56-23-5	Carbon tetrachloride	23.7		1.0	0.27
108-90-7	Chlorobenzene	24.7		1.0	0.75
75-00-3	Chloroethane	24.1		1.0	0.32
67-66-3	Chloroform	24.4		1.0	0.34
74-87-3	Chloromethane	23.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.0		1.0	0.36
110-82-7	Cyclohexane	24.8		1.0	0.18
124-48-1	Dibromochloromethane	23.4		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-275144/29
 Matrix: Water Lab File ID: S4778.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 11:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	24.5		1.0	0.68
100-41-4	Ethylbenzene	24.8		1.0	0.74
98-82-8	Isopropylbenzene	25.3		1.0	0.79
79-20-9	Methyl acetate	137		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.4		1.0	0.16
108-87-2	Methylcyclohexane	25.4		1.0	0.16
75-09-2	Methylene Chloride	25.1		1.0	0.44
100-42-5	Styrene	26.7		1.0	0.73
127-18-4	Tetrachloroethene	24.6		1.0	0.36
108-88-3	Toluene	24.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.1		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.3		1.0	0.37
79-01-6	Trichloroethene	25.2		1.0	0.46
75-69-4	Trichlorofluoromethane	26.3		1.0	0.88
75-01-4	Vinyl chloride	23.5		1.0	0.90
1330-20-7	Xylenes, Total	51.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4778.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 16-Nov-2015 11:55:30 ALS Bottle#: 67 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0048379-029
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 12:36:43 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK031

First Level Reviewer: goliszekg

Date: 16-Nov-2015 12:36:43

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	5.401	5.401	0.000	97	197683	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	87	379580	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	75	350691	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.810	-0.006	68	227636	27.2	27.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	174791	27.2	28.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	912580	27.2	27.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	79	263605	27.2	28.4	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	85	230959	25.0	24.5	
11 Chlorodifluoromethane	51	1.267	1.267	0.000	75	295378	25.0	27.0	
12 Chloromethane	50	1.407	1.407	0.000	89	401385	25.0	23.9	
13 Vinyl chloride	62	1.511	1.505	0.006	81	236590	25.0	23.5	
151 Butadiene	54	1.535	1.535	0.000	89	289655	25.0	24.3	
14 Bromomethane	94	1.797	1.797	0.000	84	47716	25.0	18.9	
15 Chloroethane	64	1.913	1.906	0.007	86	111825	25.0	24.1	
16 Dichlorofluoromethane	67	2.132	2.126	0.006	76	255088	25.0	27.8	
17 Trichlorofluoromethane	101	2.144	2.138	0.006	79	245781	25.0	26.3	
148 Ethanol	45	2.418	2.412	0.006	85	366284	1000.0	2554.5	
18 Ethyl ether	59	2.418	2.418	0.000	81	260324	25.0	23.9	
19 Propene oxide	58	2.497	2.497	0.000	87	345487	NC	NC	
20 Acrolein	56	2.582	2.582	0.000	91	269506	125.0	114.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	52	172556	25.0	22.6	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	77	184518	25.0	24.5	
23 Acetone	43	2.741	2.734	0.007	98	525454	125.0	127.9	
25 Iodomethane	142	2.820	2.814	0.006	97	235289	25.0	23.6	
26 Carbon disulfide	76	2.850	2.850	0.000	98	448217	25.0	23.4	
24 Isopropyl alcohol	45	2.929	2.923	0.006	85	181597	250.0	236.6	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	17	354222	25.0	21.6	M
29 Acetonitrile	40	3.027	3.027	0.000	77	291632	250.0	345.6	
27 Methyl acetate	43	3.045	3.039	0.006	98	1435135	125.0	136.9	
30 Methylene Chloride	84	3.173	3.136	0.037	82	205417	25.0	25.1	
31 2-Methyl-2-propanol	59	3.307	3.301	0.006	94	257122	250.0	219.3	

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	3.368	3.368	0.000	93	561208	25.0	24.4	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	84	188435	25.0	25.1	
33 Acrylonitrile	53	3.404	3.404	0.000	96	1238311	250.0	231.3	
35 Hexane	57	3.593	3.593	0.000	95	433084	25.0	22.8	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	441650	25.0	24.0	
36 Isopropyl ether	45	3.824	3.824	0.000	90	1043371	25.0	28.0	
37 Vinyl acetate	43	3.842	3.842	0.000	96	1885200	50.0	75.3	
40 2-Chloro-1,3-butadiene	53	3.855	3.861	-0.006	47	488846	25.0	30.6	
38 1,1-Dimethoxyethane	75	3.891	3.885	0.006	63	169208	125.0	133.4	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	871439	25.0	26.6	
44 2,2-Dichloropropane	77	4.317	4.311	0.006	82	160375	25.0	23.2	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	74	207118	25.0	24.0	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	92	735156	125.0	123.0	
42 Ethyl acetate	43	4.415	4.415	0.000	81	486473	50.0	64.8	
46 Propionitrile	54	4.457	4.457	0.000	98	496801	250.0	264.9	
48 Chlorobromomethane	128	4.573	4.579	-0.006	39	99049	25.0	24.7	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	2167259	250.0	296.1	
49 Tetrahydrofuran	42	4.603	4.609	-0.006	50	261750	50.0	67.7	
50 Chloroform	83	4.652	4.652	0.000	58	361279	25.0	24.4	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	86	238459	25.0	24.1	
52 Cyclohexane	56	4.804	4.804	0.000	93	488689	25.0	24.8	
55 Carbon tetrachloride	117	4.926	4.926	0.000	70	230015	25.0	23.7	
54 1,1-Dichloropropene	75	4.932	4.938	-0.006	85	273150	25.0	23.1	
53 Isobutyl alcohol	43	5.133	5.133	0.000	61	373735	625.0	643.6	
57 Benzene	78	5.133	5.133	0.000	92	813129	25.0	24.3	
152 Isooctane	57	5.170	5.170	0.000	98	1089782	25.0	30.5	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	394796	25.0	24.9	
147 t-Amyl alcohol	59	5.194	5.194	0.000	22	238170	250.0	294.8	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	72	648321	25.0	27.4	
59 n-Heptane	43	5.340	5.340	0.000	96	471544	25.0	24.9	
1 1,4-Difluorobenzene	114	5.511	5.511	-0.001	97	650244	25.0	26.8	
62 Trichloroethene	95	5.748	5.748	0.000	88	206007	25.0	25.2	
60 n-Butanol	56	5.754	5.754	0.000	89	194150	625.0	852.6	
142 Ethyl acrylate	55	5.870	5.864	0.006	96	803393	25.0	60.9	
64 Methylcyclohexane	83	5.888	5.888	0.000	90	351120	25.0	25.4	
65 1,2-Dichloropropane	63	5.973	5.979	-0.006	89	246104	25.0	25.8	
63 Methyl methacrylate	41	6.083	6.083	0.000	88	568882	50.0	61.2	
67 Dibromomethane	93	6.107	6.107	0.000	92	117497	25.0	24.0	
66 1,4-Dioxane	88	6.125	6.125	0.000	78	44933	500.0	486.7	
68 Dichlorobromomethane	83	6.259	6.259	0.000	90	237622	25.0	25.0	
70 2-Nitropropane	43	6.503	6.497	0.006	96	103025	50.0	51.3	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	71	165990	25.0	27.6	
71 Epichlorohydrin	57	6.625	6.625	0.000	97	284541	250.0	254.6	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	74	318425	25.0	28.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	98	1512976	125.0	131.9	
74 Toluene	92	6.984	6.984	0.000	94	497361	25.0	24.4	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	92	277254	25.0	26.3	
75 Ethyl methacrylate	69	7.306	7.306	0.000	94	249189	25.0	27.3	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	147701	25.0	24.9	
81 Tetrachloroethene	166	7.519	7.526	-0.007	86	205019	25.0	24.6	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	95	343831	25.0	25.3	
80 2-Hexanone	43	7.666	7.666	0.000	98	1073859	125.0	134.6	

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	7.787	7.787	0.000	98	311430	25.0	30.6	
83 Chlorodibromomethane	129	7.836	7.830	0.006	87	157757	25.0	23.4	
84 Ethylene Dibromide	107	7.940	7.940	0.000	96	184110	25.0	25.7	
146 1-Chlorohexane	55	8.384	8.384	0.000	87	312783	25.0	26.8	
85 3-Chlorobenzotrifluoride	180	8.402	8.396	0.006	80	287214	25.0	26.5	
87 Chlorobenzene	112	8.427	8.427	0.000	82	578824	25.0	24.7	
86 4-Chlorobenzotrifluoride	180	8.463	8.457	0.006	55	280686	25.0	27.2	
89 1,1,1,2-Tetrachloroethane	131	8.524	8.524	0.000	34	184493	25.0	26.5	
88 Ethylbenzene	91	8.524	8.524	0.000	96	935076	25.0	24.8	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	376925	25.0	25.2	
91 o-Xylene	106	9.072	9.072	0.000	97	363039	25.0	26.1	
92 Styrene	104	9.096	9.096	0.000	92	590588	25.0	26.7	
95 Bromoform	173	9.328	9.334	-0.006	92	71541	25.0	20.8	
93 2-Chlorobenzotrifluoride	180	9.376	9.370	0.006	90	288625	25.0	26.6	
94 Isopropylbenzene	105	9.462	9.462	0.000	97	921545	25.0	25.3	
96 Cyclohexanone	55	9.602	9.602	0.000	90	103424	250.0	295.6	
101 Bromobenzene	156	9.796	9.796	0.000	96	215523	25.0	24.6	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	80	228131	25.0	24.7	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	68	75531	25.0	24.5	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1099627	25.0	24.4	
98 trans-1,4-Dichloro-2-buten	53	9.888	9.888	0.000	33	102055	25.0	21.7	
103 2-Chlorotoluene	126	9.985	9.985	0.000	95	221976	25.0	24.7	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	243599	25.0	26.9	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	93	801974	25.0	24.9	
105 4-Chlorotoluene	126	10.095	10.095	0.000	78	251513	25.0	27.0	
106 tert-Butylbenzene	134	10.387	10.387	0.000	92	175374	25.0	24.0	
108 Pentachloroethane	167	10.429	10.430	-0.001	36	111339	25.0	29.7	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	68	821844	25.0	25.6	
109 sec-Butylbenzene	105	10.594	10.594	0.000	95	992058	25.0	25.3	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	438805	25.0	24.7	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	97	876353	25.0	26.3	
114 Dicyclopentadiene	66	10.795	10.801	-0.006	83	1062967	25.0	26.0	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	79	438028	25.0	23.9	
112 1,2,3-Trimethylbenzene	105	10.843	10.844	-0.001	66	893838	25.0	26.7	
150 Benzyl chloride	126	10.947	10.947	0.000	99	70403	25.0	34.3	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	799660	25.0	26.3	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	88	430903	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	58	36674	25.0	25.9	
118 1,3,5-Trichlorobenzene	180	12.024	12.031	-0.007	94	343305	25.0	27.1	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	93	304648	25.0	26.0	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	94	136378	25.0	24.5	
121 Naphthalene	128	12.773	12.773	0.000	97	757675	25.0	28.6	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	93	294955	25.0	27.6	
149 2-Methylnaphthalene	142	13.686	13.687	-0.001	90	476908	25.0	33.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151116-48379.b\\S4778.D

Injection Date: 16-Nov-2015 11:55:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: LCS

Worklist Smp#: 29

Client ID:

Purge Vol: 5.000 mL

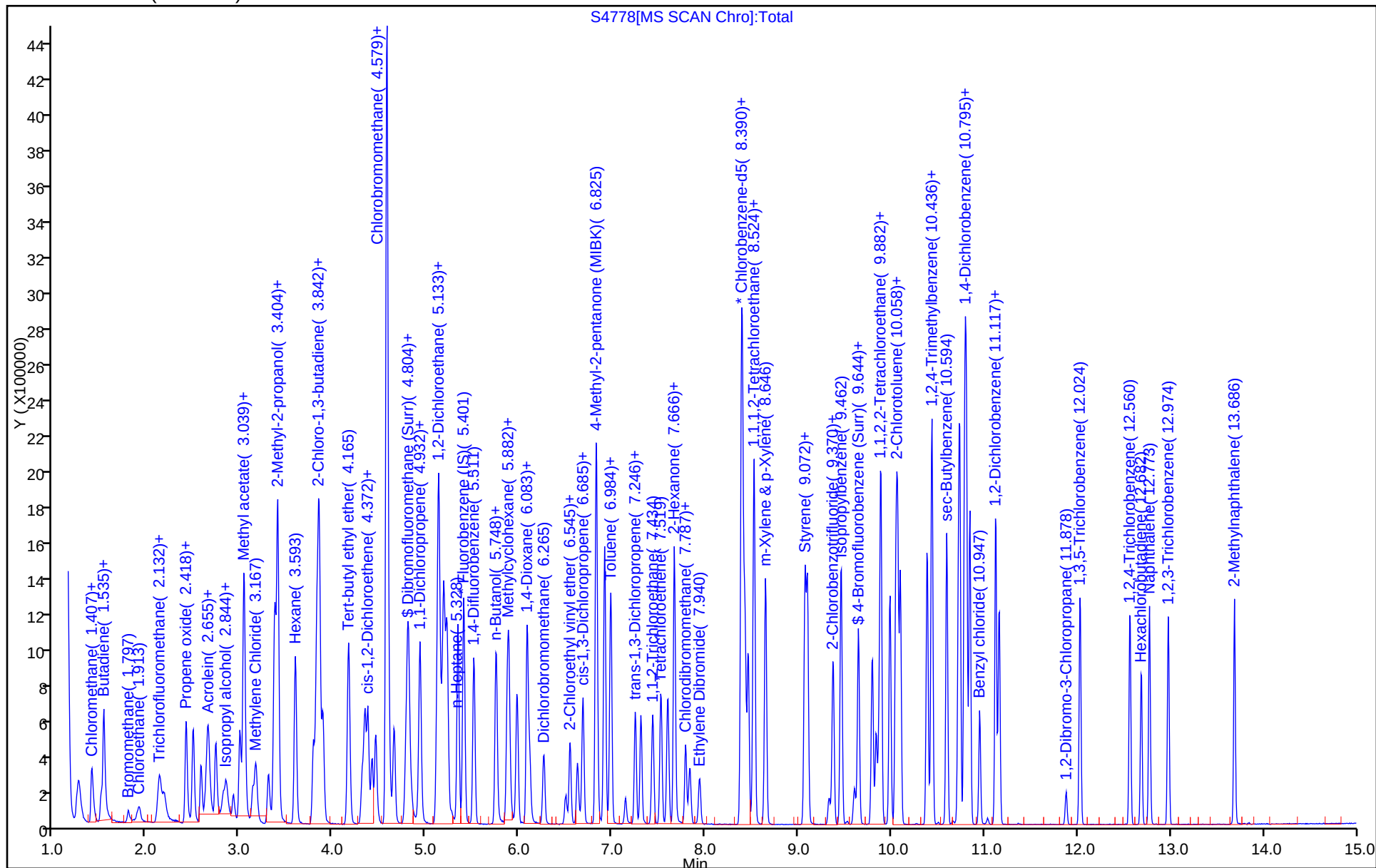
Dil. Factor: 1.0000

ALS Bottle#: 67

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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-275311/4

Matrix: Water Lab File ID: S4807.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 23:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	23.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.7		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.9		1.0	0.23
75-34-3	1,1-Dichloroethane	23.1		1.0	0.38
75-35-4	1,1-Dichloroethene	20.4		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	27.3		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	24.9		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	25.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.5		1.0	0.39
106-93-4	1,2-Dibromoethane	25.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.6		1.0	0.79
107-06-2	1,2-Dichloroethane	23.7		1.0	0.21
78-87-5	1,2-Dichloropropane	24.7		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	24.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.1		1.0	0.84
78-93-3	2-Butanone (MEK)	119		10	1.3
591-78-6	2-Hexanone	131		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	128		5.0	2.1
67-64-1	Acetone	122		10	3.0
71-43-2	Benzene	23.0		1.0	0.41
75-27-4	Bromodichloromethane	24.2		1.0	0.39
75-25-2	Bromoform	22.0		1.0	0.26
74-83-9	Bromomethane	26.8		1.0	0.69
75-15-0	Carbon disulfide	21.4		1.0	0.19
56-23-5	Carbon tetrachloride	22.2		1.0	0.27
108-90-7	Chlorobenzene	24.5		1.0	0.75
75-00-3	Chloroethane	25.1		1.0	0.32
67-66-3	Chloroform	23.1		1.0	0.34
74-87-3	Chloromethane	22.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.9		1.0	0.36
110-82-7	Cyclohexane	22.3		1.0	0.18
124-48-1	Dibromochloromethane	23.3		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-275311/4
 Matrix: Water Lab File ID: S4807.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 23:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275311 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	21.1		1.0	0.68
100-41-4	Ethylbenzene	24.3		1.0	0.74
98-82-8	Isopropylbenzene	25.3		1.0	0.79
79-20-9	Methyl acetate	128		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.3		1.0	0.16
108-87-2	Methylcyclohexane	22.9		1.0	0.16
75-09-2	Methylene Chloride	23.4		1.0	0.44
100-42-5	Styrene	26.6		1.0	0.73
127-18-4	Tetrachloroethene	24.2		1.0	0.36
108-88-3	Toluene	23.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.0		1.0	0.37
79-01-6	Trichloroethene	23.5		1.0	0.46
75-69-4	Trichlorofluoromethane	25.3		1.0	0.88
75-01-4	Vinyl chloride	22.9		1.0	0.90
1330-20-7	Xylenes, Total	49.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S4807.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 16-Nov-2015 23:44:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0048406-004
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48406.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 00:04:57 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 17-Nov-2015 00:04:57

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	5.401	5.401	0.000	96	212423	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	401618	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	77	365996	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	-0.001	65	232330	27.2	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	168465	27.2	25.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	938616	27.2	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	79	265221	27.2	27.0	
10 Dichlorodifluoromethane	85	1.255	1.249	0.006	85	213608	25.0	21.1	
11 Chlorodifluoromethane	51	1.267	1.273	-0.006	76	274484	25.0	23.3	
12 Chloromethane	50	1.407	1.407	0.000	88	401676	25.0	22.2	
13 Vinyl chloride	62	1.511	1.511	0.000	77	247496	25.0	22.9	
151 Butadiene	54	1.535	1.535	0.000	89	307807	25.0	24.1	
14 Bromomethane	94	1.815	1.815	0.000	85	72613	25.0	26.8	
15 Chloroethane	64	1.913	1.913	0.000	86	125310	25.0	25.1	
16 Dichlorofluoromethane	67	2.132	2.132	0.000	80	245463	25.0	24.9	
17 Trichlorofluoromethane	101	2.144	2.144	0.000	74	253884	25.0	25.3	
148 Ethanol	45	2.418	2.406	0.012	85	342460	1000.0	2223.0	
18 Ethyl ether	59	2.418	2.418	0.000	93	255011	25.0	21.8	
19 Propene oxide	58	2.491	2.497	-0.006	87	340450	NC	NC	
20 Acrolein	56	2.576	2.576	0.000	92	268427	125.0	105.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	53	168842	25.0	20.6	
22 1,1-Dichloroethene	96	2.655	2.649	0.006	77	164651	25.0	20.4	
23 Acetone	43	2.735	2.728	0.007	98	538783	125.0	122.0	
25 Iodomethane	142	2.820	2.808	0.012	97	240550	25.0	22.5	
26 Carbon disulfide	76	2.856	2.850	0.006	98	440302	25.0	21.4	
24 Isopropyl alcohol	45	2.917	2.917	0.000	86	182712	250.0	221.5	
28 3-Chloro-1-propene	41	2.996	2.996	0.000	83	810511	25.0	46.0	
29 Acetonitrile	40	3.027	3.027	0.000	63	273017	250.0	300.4	
27 Methyl acetate	43	3.039	3.039	0.000	98	1446746	125.0	128.5	
30 Methylene Chloride	84	3.161	3.136	0.025	81	206947	25.0	23.4	
31 2-Methyl-2-propanol	59	3.295	3.295	0.000	93	251501	250.0	199.6	

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	3.368	3.368	0.000	93	574600	25.0	23.3	
34 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	79	190784	25.0	23.6	
33 Acrylonitrile	53	3.404	3.398	0.006	97	1244236	250.0	216.3	
35 Hexane	57	3.593	3.593	0.000	95	400319	25.0	19.6	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	85	456710	25.0	23.1	
36 Isopropyl ether	45	3.824	3.824	0.000	88	1094735	25.0	27.3	
37 Vinyl acetate	43	3.843	3.842	0.000	97	2036209	50.0	75.7	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	46	511328	25.0	29.7	
38 1,1-Dimethoxyethane	75	3.885	3.885	0.000	63	168348	125.0	123.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	96	889672	25.0	25.3	
44 2,2-Dichloropropane	77	4.317	4.317	0.000	83	167925	25.0	22.6	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	74	215778	25.0	23.3	
43 2-Butanone (MEK)	43	4.366	4.372	-0.006	92	766701	125.0	119.3	
42 Ethyl acetate	43	4.415	4.415	0.000	92	465629	50.0	57.7	
46 Propionitrile	54	4.451	4.457	-0.006	98	495070	250.0	245.6	
48 Chlorobromomethane	128	4.573	4.573	0.000	39	103469	25.0	24.0	
47 Methacrylonitrile	41	4.573	4.573	0.000	97	2180915	250.0	277.3	
49 Tetrahydrofuran	42	4.603	4.603	0.000	54	261365	50.0	62.9	
50 Chloroform	83	4.652	4.652	0.000	76	366575	25.0	23.1	
51 1,1,1-Trichloroethane	97	4.780	4.786	-0.006	85	251278	25.0	23.6	
52 Cyclohexane	56	4.804	4.804	0.000	92	472278	25.0	22.3	
55 Carbon tetrachloride	117	4.926	4.926	0.000	72	231352	25.0	22.2	
54 1,1-Dichloropropene	75	4.932	4.938	-0.006	83	278210	25.0	21.9	
53 Isobutyl alcohol	43	5.127	5.127	0.000	65	365986	625.0	586.5	
57 Benzene	78	5.133	5.133	0.000	93	828375	25.0	23.0	
152 Isooctane	57	5.170	5.164	0.006	96	1089499	25.0	28.4	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	73	404387	25.0	23.7	
147 t-Amyl alcohol	59	5.194	5.188	0.006	24	241229	250.0	277.9	
56 Tert-amyl methyl ether	73	5.224	5.218	0.006	74	653831	25.0	25.7	
59 n-Heptane	43	5.340	5.340	0.000	97	437109	25.0	21.4	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	675757	25.0	26.0	
62 Trichloroethene	95	5.748	5.748	0.000	91	206174	25.0	23.5	
60 n-Butanol	56	5.754	5.754	0.000	80	185209	625.0	756.9	
142 Ethyl acrylate	55	5.870	5.864	0.006	96	793155	25.0	55.9	
64 Methylcyclohexane	83	5.888	5.888	0.000	90	340590	25.0	22.9	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	90	253403	25.0	24.7	
63 Methyl methacrylate	41	6.083	6.083	0.000	89	578776	50.0	58.0	
67 Dibromomethane	93	6.107	6.107	0.000	91	122872	25.0	23.4	
66 1,4-Dioxane	88	6.119	6.119	0.000	48	38633	500.0	395.5	
68 Dichlorobromomethane	83	6.259	6.259	0.000	90	247206	25.0	24.2	
70 2-Nitropropane	43	6.497	6.497	0.000	98	109948	50.0	52.5	
69 2-Chloroethyl vinyl ether	63	6.546	6.545	0.001	70	167756	25.0	26.0	
71 Epichlorohydrin	57	6.625	6.625	0.000	97	282901	250.0	235.8	
72 cis-1,3-Dichloropropene	75	6.686	6.685	0.001	76	328937	25.0	26.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.826	0.000	98	1551187	125.0	127.8	
74 Toluene	92	6.984	6.984	0.000	89	498506	25.0	23.1	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	90	290108	25.0	26.0	
75 Ethyl methacrylate	69	7.306	7.306	0.000	90	262426	25.0	27.1	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	88	156036	25.0	24.9	
81 Tetrachloroethene	166	7.526	7.526	0.000	89	213592	25.0	24.2	
82 1,3-Dichloropropane	76	7.593	7.593	0.000	93	346829	25.0	24.2	
80 2-Hexanone	43	7.666	7.666	0.000	99	1106937	125.0	131.2	

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	7.787	7.787	0.000	97	331499	25.0	30.3	
83 Chlorodibromomethane	129	7.830	7.830	0.000	86	165581	25.0	23.3	
84 Ethylene Dibromide	107	7.940	7.940	0.000	98	191764	25.0	25.3	
146 1-Chlorohexane	55	8.384	8.384	0.000	88	331626	25.0	26.9	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	77	302306	25.0	26.8	
87 Chlorobenzene	112	8.427	8.427	0.000	83	607945	25.0	24.5	
86 4-Chlorobenzotrifluoride	180	8.463	8.463	0.000	57	290964	25.0	27.1	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	37	190529	25.0	25.8	
88 Ethylbenzene	91	8.524	8.524	0.000	84	969164	25.0	24.3	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	382559	25.0	24.2	
91 o-Xylene	106	9.072	9.072	0.000	97	373809	25.0	25.4	
92 Styrene	104	9.096	9.096	0.000	94	621568	25.0	26.6	
95 Bromoform	173	9.328	9.334	-0.006	93	80166	25.0	22.0	
93 2-Chlorobenzotrifluoride	180	9.376	9.370	0.006	91	309134	25.0	27.3	
94 Isopropylbenzene	105	9.456	9.462	-0.006	97	960487	25.0	25.3	
96 Cyclohexanone	55	9.602	9.602	0.000	88	101834	250.0	278.9	
101 Bromobenzene	156	9.796	9.796	0.000	96	230771	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	81	238079	25.0	24.7	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	68	76974	25.0	23.9	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1136949	25.0	24.1	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.888	-0.006	34	96381	25.0	19.7	
103 2-Chlorotoluene	126	9.985	9.985	0.000	95	232247	25.0	24.8	
104 3-Chlorotoluene	126	10.046	10.046	0.000	98	257747	25.0	27.3	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	93	836288	25.0	24.9	
105 4-Chlorotoluene	126	10.095	10.095	0.000	82	249527	25.0	25.7	
106 tert-Butylbenzene	134	10.387	10.387	0.000	93	185340	25.0	24.3	
108 Pentachloroethane	167	10.430	10.430	0.000	34	108851	25.0	27.8	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	68	859366	25.0	25.6	
109 sec-Butylbenzene	105	10.594	10.594	0.000	95	1023177	25.0	25.0	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	452875	25.0	24.4	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	96	912555	25.0	26.2	
114 Dicyclopentadiene	66	10.801	10.801	0.000	95	1111214	25.0	26.1	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	80	461094	25.0	24.1	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	46	952785	25.0	27.3	
150 Benzyl chloride	126	10.947	10.947	0.000	99	62644	25.0	28.9	
115 n-Butylbenzene	91	11.117	11.117	0.000	98	817219	25.0	25.7	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	88	444248	25.0	24.6	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	58	37727	25.0	25.5	
118 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	96	342093	25.0	25.8	
119 1,2,4-Trichlorobenzene	180	12.560	12.566	-0.006	89	304781	25.0	24.9	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	93	136743	25.0	23.5	
121 Naphthalene	128	12.773	12.773	0.000	98	743215	25.0	26.9	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	94	297313	25.0	26.6	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	468383	25.0	31.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151116-48406.b\\S4807.D

Injection Date: 16-Nov-2015 23:44:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

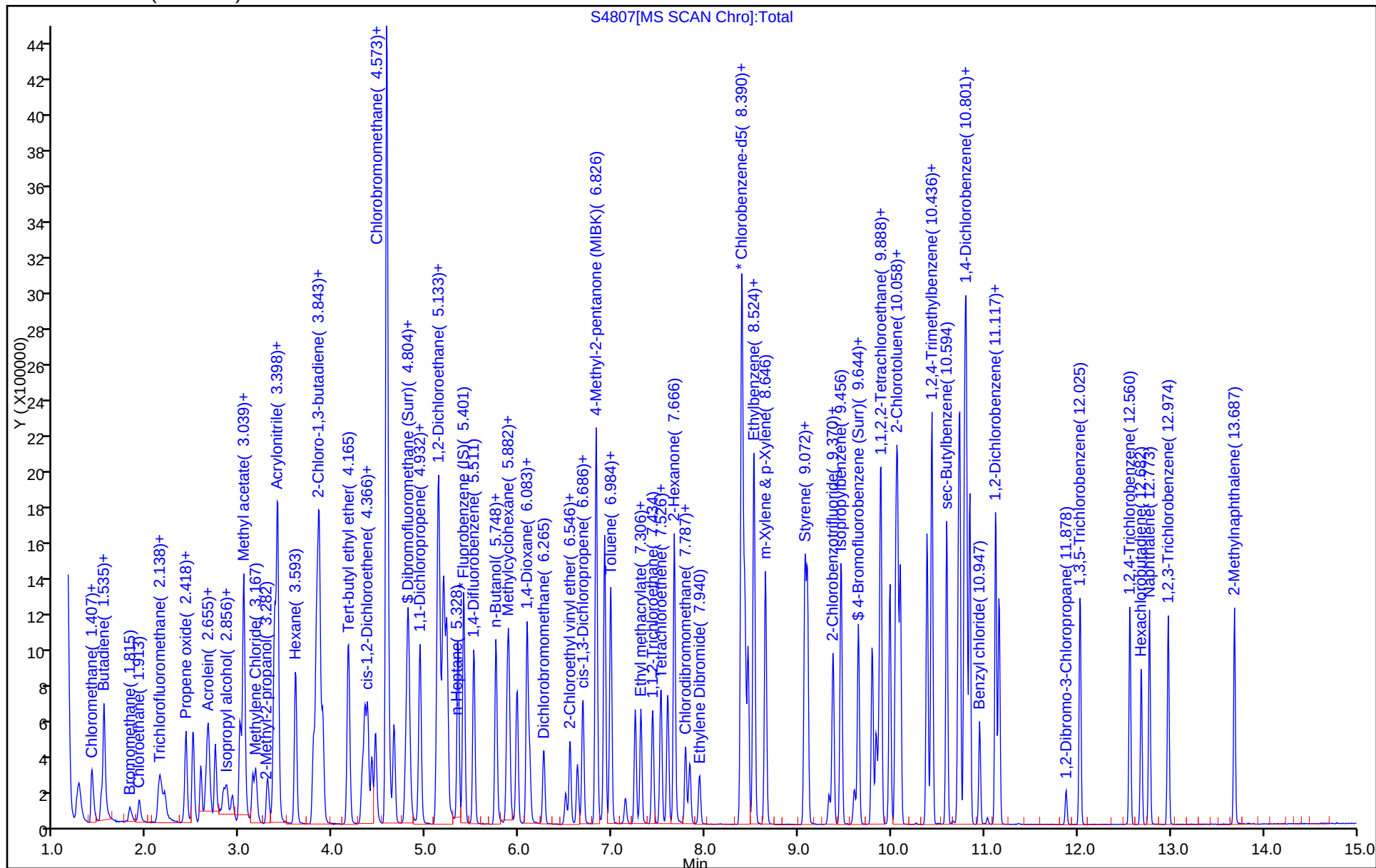
Dil. Factor: 1.0000

ALS Bottle#: 4

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.: 480-90492-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-275377/4

Matrix: Water Lab File ID: S4833.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 11:01

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275377 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.1		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.9		1.0	0.23
75-34-3	1,1-Dichloroethane	24.4		1.0	0.38
75-35-4	1,1-Dichloroethene	25.0		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	26.8		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	26.9		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	26.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	28.6		1.0	0.39
106-93-4	1,2-Dibromoethane	26.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.5		1.0	0.79
107-06-2	1,2-Dichloroethane	24.0		1.0	0.21
78-87-5	1,2-Dichloropropane	25.4		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	26.3		1.0	0.77
541-73-1	1,3-Dichlorobenzene	25.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.9		1.0	0.84
78-93-3	2-Butanone (MEK)	130		10	1.3
591-78-6	2-Hexanone	144		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	139		5.0	2.1
67-64-1	Acetone	133		10	3.0
71-43-2	Benzene	24.9		1.0	0.41
75-27-4	Bromodichloromethane	25.0		1.0	0.39
75-25-2	Bromoform	22.2		1.0	0.26
74-83-9	Bromomethane	23.1		1.0	0.69
75-15-0	Carbon disulfide	25.8		1.0	0.19
56-23-5	Carbon tetrachloride	24.3		1.0	0.27
108-90-7	Chlorobenzene	25.7		1.0	0.75
75-00-3	Chloroethane	24.5		1.0	0.32
67-66-3	Chloroform	24.5		1.0	0.34
74-87-3	Chloromethane	22.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.7		1.0	0.36
110-82-7	Cyclohexane	25.3		1.0	0.18
124-48-1	Dibromochloromethane	23.4		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-275377/4
 Matrix: Water Lab File ID: S4833.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 11:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275377 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.2		1.0	0.68
100-41-4	Ethylbenzene	26.2		1.0	0.74
98-82-8	Isopropylbenzene	27.0		1.0	0.79
79-20-9	Methyl acetate	140		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.4		1.0	0.16
108-87-2	Methylcyclohexane	26.6		1.0	0.16
75-09-2	Methylene Chloride	24.8		1.0	0.44
100-42-5	Styrene	28.1		1.0	0.73
127-18-4	Tetrachloroethene	25.9		1.0	0.36
108-88-3	Toluene	25.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.9		1.0	0.37
79-01-6	Trichloroethene	25.4		1.0	0.46
75-69-4	Trichlorofluoromethane	26.5		1.0	0.88
75-01-4	Vinyl chloride	22.8		1.0	0.90
1330-20-7	Xylenes, Total	51.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S4833.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 17-Nov-2015 11:01:30 ALS Bottle#: 30 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0048414-004
 Operator ID: JG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48414.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 11:22:45 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: gentilej

Date: 17-Nov-2015 11:22:45

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	5.401	5.401	0.000	96	201551	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.390	0.006	89	375771	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	77	340691	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.804	0.006	64	223111	27.2	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	166138	27.2	26.5	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	900023	27.2	27.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	252257	27.2	27.5	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	85	213553	25.0	22.2	
11 Chlorodifluoromethane	51	1.273	1.273	0.000	77	301056	25.0	27.0	
12 Chloromethane	50	1.407	1.407	0.000	89	393381	25.0	22.9	
13 Vinyl chloride	62	1.505	1.511	-0.006	82	233217	25.0	22.8	
151 Butadiene	54	1.535	1.541	-0.006	90	298148	25.0	24.6	
14 Bromomethane	94	1.797	1.803	-0.006	81	59416	25.0	23.1	
15 Chloroethane	64	1.919	1.913	0.006	92	115719	25.0	24.5	
16 Dichlorofluoromethane	67	2.126	2.132	-0.006	80	254401	25.0	27.2	
17 Trichlorofluoromethane	101	2.144	2.144	0.000	76	252486	25.0	26.5	
148 Ethanol	45	2.418	2.418	0.000	88	383210	1000.0	2621.2	
18 Ethyl ether	59	2.418	2.424	-0.006	82	267554	25.0	24.1	
19 Propene oxide	58	2.497	2.497	0.000	86	340702	NC	NC	
20 Acrolein	56	2.576	2.582	-0.006	94	277379	125.0	115.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.655	2.661	-0.006	51	193122	25.0	24.8	
22 1,1-Dichloroethene	96	2.661	2.661	0.000	78	191292	25.0	25.0	
23 Acetone	43	2.734	2.740	-0.006	98	556446	125.0	132.8	
25 Iodomethane	142	2.820	2.820	0.000	97	230677	25.0	22.7	
26 Carbon disulfide	76	2.856	2.850	0.006	99	502433	25.0	25.8	
24 Isopropyl alcohol	45	2.923	2.929	-0.006	86	197156	250.0	251.9	
28 3-Chloro-1-propene	41	3.033	3.033	0.031	15	829417	25.0	49.6	
29 Acetonitrile	40	3.033	3.033	0.000	48	273131	250.0	317.1	
27 Methyl acetate	43	3.039	3.045	-0.006	99	1496842	125.0	140.1	
30 Methylene Chloride	84	3.167	3.173	-0.006	77	207601	25.0	24.8	
31 2-Methyl-2-propanol	59	3.307	3.301	0.006	94	271459	250.0	227.0	

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	3.368	3.368	0.000	92	572626	25.0	24.4	
34 trans-1,2-Dichloroethene	96	3.374	3.380	-0.006	69	202170	25.0	26.4	
33 Acrylonitrile	53	3.404	3.404	0.000	96	1269208	250.0	232.6	
35 Hexane	57	3.593	3.593	0.000	95	477862	25.0	24.7	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	459094	25.0	24.4	
36 Isopropyl ether	45	3.824	3.824	0.000	89	1011193	25.0	26.6	
37 Vinyl acetate	43	3.842	3.848	-0.006	96	2040745	50.0	79.9	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	56	480553	25.0	29.5	
38 1,1-Dimethoxyethane	75	3.891	3.891	0.000	64	166199	125.0	128.5	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	833338	25.0	25.0	
44 2,2-Dichloropropane	77	4.311	4.317	-0.006	83	167599	25.0	23.8	
45 cis-1,2-Dichloroethene	96	4.342	4.348	-0.006	74	211295	25.0	24.0	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	91	791478	125.0	129.8	
42 Ethyl acetate	43	4.415	4.415	0.000	88	480195	50.0	62.7	
46 Propionitrile	54	4.457	4.457	0.000	98	492409	250.0	257.5	
48 Chlorobromomethane	128	4.573	4.573	0.000	38	103182	25.0	25.2	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	2132022	250.0	285.7	
49 Tetrahydrofuran	42	4.603	4.609	-0.006	55	270449	50.0	68.6	
50 Chloroform	83	4.652	4.652	0.000	77	369804	25.0	24.5	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	89	253682	25.0	25.1	
52 Cyclohexane	56	4.804	4.804	0.000	93	506494	25.0	25.3	
55 Carbon tetrachloride	117	4.926	4.926	0.000	65	240580	25.0	24.3	
54 1,1-Dichloropropene	75	4.932	4.932	0.000	84	296363	25.0	24.6	
53 Isobutyl alcohol	43	5.133	5.133	0.000	61	405042	625.0	684.1	
57 Benzene	78	5.133	5.133	0.000	93	852025	25.0	24.9	
152 Isooctane	57	5.170	5.170	0.000	95	1059064	25.0	29.1	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	388507	25.0	24.0	
147 t-Amyl alcohol	59	5.194	5.194	0.000	37	248741	250.0	302.0	
56 Tert-amyl methyl ether	73	5.224	5.224	0.000	77	630885	25.0	26.1	
59 n-Heptane	43	5.340	5.340	0.000	96	496885	25.0	25.7	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	629536	25.0	25.5	
62 Trichloroethene	95	5.748	5.748	0.000	90	211537	25.0	25.4	
60 n-Butanol	56	5.754	5.754	0.000	90	204045	625.0	878.8	
142 Ethyl acrylate	55	5.876	5.864	0.012	91	816566	25.0	60.7	
64 Methylcyclohexane	83	5.888	5.888	0.000	90	375280	25.0	26.6	
65 1,2-Dichloropropane	63	5.979	5.973	0.006	89	247537	25.0	25.4	
63 Methyl methacrylate	41	6.083	6.083	0.000	87	544803	50.0	57.5	
67 Dibromomethane	93	6.107	6.113	-0.006	91	120914	25.0	24.2	
66 1,4-Dioxane	88	6.119	6.125	-0.006	62	46248	500.0	506.0	
68 Dichlorobromomethane	83	6.259	6.265	-0.006	91	241554	25.0	25.0	
70 2-Nitropropane	43	6.503	6.503	0.000	98	102461	50.0	52.6	
69 2-Chloroethyl vinyl ether	63	6.545	6.545	0.000	70	169809	25.0	27.7	
71 Epichlorohydrin	57	6.625	6.625	0.000	97	290579	250.0	255.1	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	75	321339	25.0	27.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	98	1574741	125.0	138.7	
74 Toluene	92	6.984	6.984	0.000	92	523780	25.0	25.9	
77 trans-1,3-Dichloropropene	75	7.246	7.245	0.001	90	280392	25.0	26.9	
75 Ethyl methacrylate	69	7.306	7.306	0.000	90	261940	25.0	28.9	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	88	152126	25.0	25.9	
81 Tetrachloroethene	166	7.520	7.519	0.001	83	213477	25.0	25.9	
82 1,3-Dichloropropane	76	7.593	7.599	-0.006	91	340091	25.0	25.3	
80 2-Hexanone	43	7.666	7.666	0.000	98	1140606	125.0	144.5	

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	7.787	7.787	0.000	97	301750	25.0	29.1	
83 Chlorodibromomethane	129	7.830	7.836	-0.006	83	155509	25.0	23.4	
84 Ethylene Dibromide	107	7.933	7.940	-0.007	92	188913	25.0	26.6	
146 1-Chlorohexane	55	8.384	8.384	0.000	87	317825	25.0	27.6	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	76	293348	25.0	27.9	
87 Chlorobenzene	112	8.427	8.427	0.000	83	595688	25.0	25.7	
86 4-Chlorobenzotrifluoride	180	8.463	8.457	0.006	61	270056	25.0	27.0	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	36	181869	25.0	26.4	
88 Ethylbenzene	91	8.524	8.524	0.000	96	978064	25.0	26.2	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	374218	25.0	25.3	
91 o-Xylene	106	9.072	9.072	0.000	97	365588	25.0	26.6	
92 Styrene	104	9.096	9.096	0.000	92	614991	25.0	28.1	
95 Bromoform	173	9.328	9.328	0.000	93	75439	25.0	22.2	
93 2-Chlorobenzotrifluoride	180	9.370	9.376	-0.006	87	281610	25.0	26.7	
94 Isopropylbenzene	105	9.455	9.455	0.000	96	952987	25.0	27.0	
96 Cyclohexanone	55	9.602	9.602	0.000	91	103027	250.0	303.1	
101 Bromobenzene	156	9.796	9.796	0.000	96	217472	25.0	25.5	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	82	234036	25.0	26.1	
100 1,2,3-Trichloropropane	110	9.869	9.869	0.000	62	79456	25.0	26.5	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.882	0.000	33	94615	25.0	20.7	
99 N-Propylbenzene	91	9.888	9.888	0.000	98	1140112	25.0	26.0	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	226439	25.0	25.9	
104 3-Chlorotoluene	126	10.046	10.046	0.000	97	238117	25.0	27.1	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	93	824111	25.0	26.3	
105 4-Chlorotoluene	126	10.095	10.095	0.000	80	242302	25.0	26.8	
106 tert-Butylbenzene	134	10.381	10.387	-0.006	91	187894	25.0	26.4	
108 Pentachloroethane	167	10.429	10.430	-0.001	35	103583	25.0	28.5	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	831309	25.0	26.6	
109 sec-Butylbenzene	105	10.594	10.594	0.000	96	1018773	25.0	26.7	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	443697	25.0	25.7	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	97	891604	25.0	27.5	
114 Dicyclopentadiene	66	10.795	10.795	0.000	95	1055026	25.0	26.6	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	81	444728	25.0	24.9	
112 1,2,3-Trimethylbenzene	105	10.843	10.844	-0.001	38	872723	25.0	26.8	
150 Benzyl chloride	126	10.947	10.947	0.000	98	64364	25.0	31.7	
115 n-Butylbenzene	91	11.117	11.117	0.000	97	818313	25.0	27.7	
116 1,2-Dichlorobenzene	146	11.154	11.160	-0.006	88	427793	25.0	25.5	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	55	39443	25.0	28.6	
118 1,3,5-Trichlorobenzene	180	12.025	12.025	-0.001	94	329671	25.0	26.8	
119 1,2,4-Trichlorobenzene	180	12.560	12.566	-0.006	92	306056	25.0	26.9	
120 Hexachlorobutadiene	225	12.688	12.682	0.006	94	141181	25.0	26.1	
121 Naphthalene	128	12.773	12.773	0.000	98	756719	25.0	29.4	
122 1,2,3-Trichlorobenzene	180	12.974	12.974	0.000	94	294355	25.0	28.3	
149 2-Methylnaphthalene	142	13.686	13.687	-0.001	92	453321	25.0	32.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151117-48414.b\\S4833.D

Injection Date: 17-Nov-2015 11:01:30

Instrument ID: HP5973S

Operator ID: JG

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

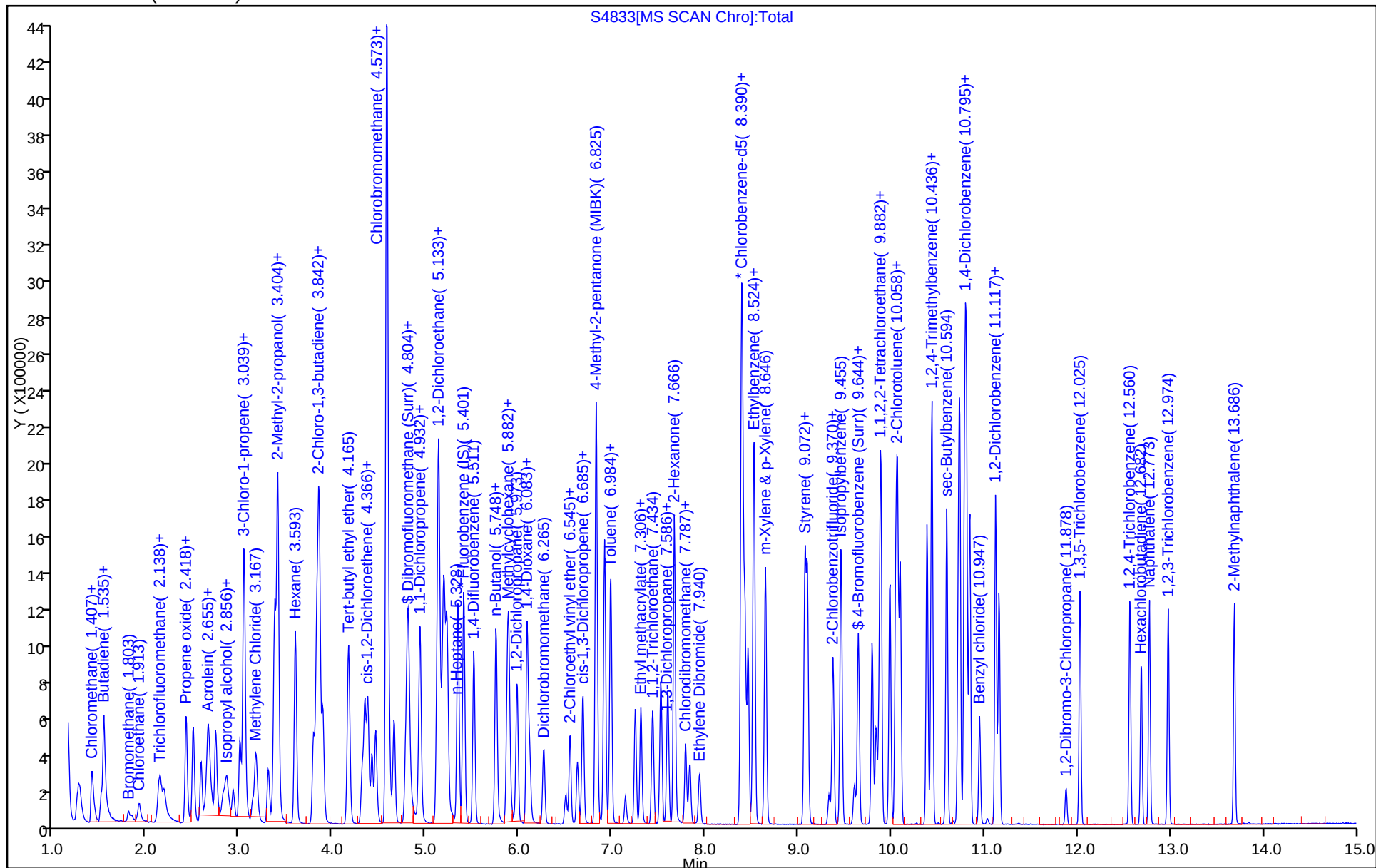
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-275520/4
 Matrix: Water Lab File ID: S4863.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 22:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275520 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.9		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	27.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.9		1.0	0.23
75-34-3	1,1-Dichloroethane	25.3		1.0	0.38
75-35-4	1,1-Dichloroethene	24.1		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	27.4		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	26.9		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	26.9		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	26.4		1.0	0.39
106-93-4	1,2-Dibromoethane	25.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	26.2		1.0	0.79
107-06-2	1,2-Dichloroethane	25.7		1.0	0.21
78-87-5	1,2-Dichloropropane	26.7		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	26.5		1.0	0.77
541-73-1	1,3-Dichlorobenzene	26.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.9		1.0	0.84
78-93-3	2-Butanone (MEK)	125		10	1.3
591-78-6	2-Hexanone	131		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	129		5.0	2.1
67-64-1	Acetone	129		10	3.0
71-43-2	Benzene	25.7		1.0	0.41
75-27-4	Bromodichloromethane	26.3		1.0	0.39
75-25-2	Bromoform	21.2		1.0	0.26
74-83-9	Bromomethane	31.5		1.0	0.69
75-15-0	Carbon disulfide	26.6		1.0	0.19
56-23-5	Carbon tetrachloride	26.0		1.0	0.27
108-90-7	Chlorobenzene	25.7		1.0	0.75
75-00-3	Chloroethane	28.5		1.0	0.32
67-66-3	Chloroform	25.5		1.0	0.34
74-87-3	Chloromethane	22.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	29.5		1.0	0.36
110-82-7	Cyclohexane	26.8		1.0	0.18
124-48-1	Dibromochloromethane	23.7		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-275520/4
 Matrix: Water Lab File ID: S4863.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/17/2015 22:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275520 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.0		1.0	0.68
100-41-4	Ethylbenzene	25.5		1.0	0.74
98-82-8	Isopropylbenzene	27.1		1.0	0.79
79-20-9	Methyl acetate	137		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.6		1.0	0.16
108-87-2	Methylcyclohexane	26.8		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	25.4		1.0	0.36
108-88-3	Toluene	24.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.4		1.0	0.37
79-01-6	Trichloroethene	26.3		1.0	0.46
75-69-4	Trichlorofluoromethane	28.1		1.0	0.88
75-01-4	Vinyl chloride	24.2		1.0	0.90
1330-20-7	Xylenes, Total	52.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		66-137
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4863.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 17-Nov-2015 22:28:30 ALS Bottle#: 60 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0048440-004
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Nov-2015 22:48:54 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: o'briens

Date: 17-Nov-2015 22:48:54

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	5.407	5.401	0.006	97	197476	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.390	0.006	88	390325	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	78	345113	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.805	4.811	-0.005	57	225486	27.2	27.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	168226	27.2	27.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	942076	27.2	27.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	263826	27.2	27.7	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	86	207775	25.0	22.0	
11 Chlorodifluoromethane	51	1.274	1.273	0.001	78	277408	25.0	25.4	
12 Chloromethane	50	1.408	1.407	0.001	89	381067	25.0	22.7	
13 Vinyl chloride	62	1.511	1.517	-0.006	82	242986	25.0	24.2	
151 Butadiene	54	1.535	1.535	0.000	89	316031	25.0	26.6	
14 Bromomethane	94	1.821	1.815	0.006	89	79369	25.0	31.5	
15 Chloroethane	64	1.913	1.913	0.000	90	132424	25.0	28.5	
16 Dichlorofluoromethane	67	2.138	2.138	0.000	79	252774	25.0	27.6	
17 Trichlorofluoromethane	101	2.156	2.144	0.012	79	262274	25.0	28.1	
148 Ethanol	45	2.418	2.400	0.018	87	353916	1000.0	2470.9	
18 Ethyl ether	59	2.418	2.418	0.000	90	262246	25.0	24.1	
19 Propene oxide	58	2.497	2.497	0.000	88	321213	NC	NC	
20 Acrolein	56	2.576	2.576	0.000	90	270434	125.0	114.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	55	210433	25.0	27.6	
22 1,1-Dichloroethene	96	2.656	2.655	0.001	77	181282	25.0	24.1	
23 Acetone	43	2.735	2.734	0.001	98	530130	125.0	129.2	
25 Iodomethane	142	2.814	2.814	0.000	97	271522	25.0	27.3	
26 Carbon disulfide	76	2.856	2.850	0.006	99	508005	25.0	26.6	
24 Isopropyl alcohol	45	2.923	2.917	0.006	82	176217	250.0	229.8	
28 3-Chloro-1-propene	41	3.027	2.996	0.031	50	866398	25.0	52.9	
29 Acetonitrile	40	3.027	3.027	0.000	80	279038	250.0	330.8	
27 Methyl acetate	43	3.039	3.039	0.000	97	1433712	125.0	136.9	
30 Methylene Chloride	84	3.161	3.136	0.025	78	207607	25.0	25.4	
31 2-Methyl-2-propanol	59	3.295	3.294	0.001	93	254369	250.0	217.1	

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	3.368	3.368	0.000	93	565991	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.380	3.374	0.006	85	202500	25.0	27.0	
33 Acrylonitrile	53	3.404	3.404	0.000	96	1251058	250.0	234.0	
35 Hexane	57	3.599	3.593	0.006	94	477992	25.0	25.2	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	85	466073	25.0	25.3	
36 Isopropyl ether	45	3.824	3.824	0.000	88	1046199	25.0	28.1	
37 Vinyl acetate	43	3.843	3.842	0.001	96	2032295	50.0	81.2	
40 2-Chloro-1,3-butadiene	53	3.855	3.855	0.000	56	503504	25.0	31.5	
38 1,1-Dimethoxyethane	75	3.891	3.885	0.006	62	157217	125.0	124.0	
41 Tert-butyl ethyl ether	59	4.165	4.165	0.000	97	852937	25.0	26.1	
44 2,2-Dichloropropane	77	4.318	4.317	0.001	86	191802	25.0	27.7	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	215582	25.0	25.0	
43 2-Butanone (MEK)	43	4.372	4.366	0.006	91	747524	125.0	125.2	
42 Ethyl acetate	43	4.415	4.415	0.000	85	458191	50.0	61.1	
46 Propionitrile	54	4.458	4.457	0.001	98	472536	250.0	252.2	
48 Chlorobromomethane	128	4.573	4.573	0.000	39	102158	25.0	25.5	
47 Methacrylonitrile	41	4.579	4.579	0.000	97	2055538	250.0	281.1	
49 Tetrahydrofuran	42	4.604	4.603	0.001	54	267658	50.0	69.3	
50 Chloroform	83	4.652	4.652	0.000	76	376434	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	87	266409	25.0	26.9	
52 Cyclohexane	56	4.811	4.810	0.001	92	527322	25.0	26.8	
55 Carbon tetrachloride	117	4.926	4.926	0.000	77	252131	25.0	26.0	
54 1,1-Dichloropropene	75	4.938	4.938	0.000	87	298845	25.0	25.3	
53 Isobutyl alcohol	43	5.127	5.127	0.000	65	368726	625.0	635.7	
57 Benzene	78	5.133	5.133	0.000	93	858834	25.0	25.7	
152 Isooctane	57	5.164	5.164	0.000	95	1116202	25.0	31.3	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	73	407918	25.0	25.7	
147 t-Amyl alcohol	59	5.188	5.188	0.000	13	228436	250.0	283.1	
56 Tert-amyl methyl ether	73	5.225	5.224	0.001	72	634122	25.0	26.8	
59 n-Heptane	43	5.340	5.340	0.000	96	498102	25.0	26.3	
1 1,4-Difluorobenzene	114	5.511	5.511	0.000	97	654704	25.0	27.0	
62 Trichloroethene	95	5.748	5.748	0.000	91	215025	25.0	26.3	
60 n-Butanol	56	5.754	5.748	0.006	78	173667	625.0	763.4	
142 Ethyl acrylate	55	5.870	5.864	0.006	96	808917	25.0	61.4	
64 Methylcyclohexane	83	5.888	5.882	0.006	91	370118	25.0	26.8	
65 1,2-Dichloropropane	63	5.979	5.973	0.006	89	255042	25.0	26.7	
63 Methyl methacrylate	41	6.083	6.083	0.000	89	549346	50.0	59.2	
67 Dibromomethane	93	6.107	6.107	0.000	91	126793	25.0	25.9	
66 1,4-Dioxane	88	6.120	6.119	0.001	56	38414	500.0	404.6	
68 Dichlorobromomethane	83	6.266	6.265	0.001	89	249749	25.0	26.3	
70 2-Nitropropane	43	6.503	6.497	0.006	96	105072	50.0	53.2	
69 2-Chloroethyl vinyl ether	63	6.546	6.545	0.001	71	161887	25.0	26.9	
71 Epichlorohydrin	57	6.625	6.625	0.000	97	281658	250.0	252.4	
72 cis-1,3-Dichloropropene	75	6.686	6.685	0.001	76	334961	25.0	29.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	98	1518102	125.0	128.7	
74 Toluene	92	6.984	6.984	0.000	93	518651	25.0	24.7	
77 trans-1,3-Dichloropropene	75	7.246	7.245	0.001	91	286097	25.0	26.4	
75 Ethyl methacrylate	69	7.307	7.306	0.001	89	257723	25.0	27.4	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	88	152021	25.0	24.9	
81 Tetrachloroethene	166	7.526	7.519	0.007	88	217329	25.0	25.4	
82 1,3-Dichloropropane	76	7.599	7.599	0.000	96	346996	25.0	24.9	
80 2-Hexanone	43	7.666	7.666	0.000	98	1074044	125.0	130.9	

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	7.788	7.787	0.001	97	296912	25.0	29.2	
83 Chlorodibromomethane	129	7.830	7.830	0.000	85	164121	25.0	23.7	
84 Ethylene Dibromide	107	7.934	7.940	-0.006	93	188353	25.0	25.6	
146 1-Chlorohexane	55	8.384	8.384	0.000	87	333202	25.0	27.8	
85 3-Chlorobenzotrifluoride	180	8.396	8.396	0.000	77	301771	25.0	28.3	
87 Chlorobenzene	112	8.427	8.427	0.000	84	618905	25.0	25.7	
86 4-Chlorobenzotrifluoride	180	8.463	8.457	0.006	56	289044	25.0	28.5	
89 1,1,1,2-Tetrachloroethane	131	8.518	8.518	0.000	37	189828	25.0	26.5	
88 Ethylbenzene	91	8.524	8.524	0.000	93	992083	25.0	25.5	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	398315	25.0	25.9	
91 o-Xylene	106	9.072	9.072	0.000	97	385109	25.0	27.0	
92 Styrene	104	9.096	9.096	0.000	92	617953	25.0	27.2	
95 Bromoform	173	9.328	9.334	-0.006	94	74726	25.0	21.2	
93 2-Chlorobenzotrifluoride	180	9.370	9.370	0.000	85	294085	25.0	27.6	
94 Isopropylbenzene	105	9.456	9.455	0.001	97	969791	25.0	27.1	
96 Cyclohexanone	55	9.602	9.602	0.000	91	96907	250.0	281.4	
101 Bromobenzene	156	9.790	9.796	-0.006	95	229935	25.0	26.6	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	82	229487	25.0	25.3	
100 1,2,3-Trichloropropane	110	9.870	9.869	0.001	63	75744	25.0	25.0	
99 N-Propylbenzene	91	9.888	9.888	0.000	97	1156370	25.0	26.0	
98 trans-1,4-Dichloro-2-buten	53	9.882	9.888	-0.006	33	104571	25.0	22.5	
103 2-Chlorotoluene	126	9.985	9.985	0.000	94	236793	25.0	26.8	
104 3-Chlorotoluene	126	10.046	10.046	0.000	98	250462	25.0	28.1	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	94	839976	25.0	26.5	
105 4-Chlorotoluene	126	10.095	10.095	0.000	81	259719	25.0	28.4	
106 tert-Butylbenzene	134	10.381	10.387	-0.006	94	182948	25.0	25.4	
108 Pentachloroethane	167	10.430	10.430	0.000	36	111956	25.0	30.3	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	70	850685	25.0	26.9	
109 sec-Butylbenzene	105	10.594	10.594	0.000	95	1045541	25.0	27.1	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	92	454227	25.0	26.0	
110 4-Isopropyltoluene	119	10.734	10.734	0.000	96	906477	25.0	27.6	
114 Dicyclopentadiene	66	10.801	10.801	0.000	95	1087924	25.0	27.1	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	81	467316	25.0	25.9	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	43	903867	25.0	27.4	
150 Benzyl chloride	126	10.947	10.947	0.000	99	66597	25.0	31.6	
115 n-Butylbenzene	91	11.118	11.117	0.001	97	825065	25.0	27.6	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	89	446715	25.0	26.2	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.878	0.001	67	36868	25.0	26.4	
118 1,3,5-Trichlorobenzene	180	12.025	12.031	-0.006	94	336474	25.0	27.0	
119 1,2,4-Trichlorobenzene	180	12.567	12.566	0.001	91	309792	25.0	26.9	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	94	137294	25.0	25.1	
121 Naphthalene	128	12.774	12.773	0.001	98	721158	25.0	27.7	
122 1,2,3-Trichlorobenzene	180	12.974	12.980	-0.006	94	293399	25.0	27.9	
149 2-Methylnaphthalene	142	13.687	13.687	0.000	93	438197	25.0	31.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4863.D

Injection Date: 17-Nov-2015 22:28:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

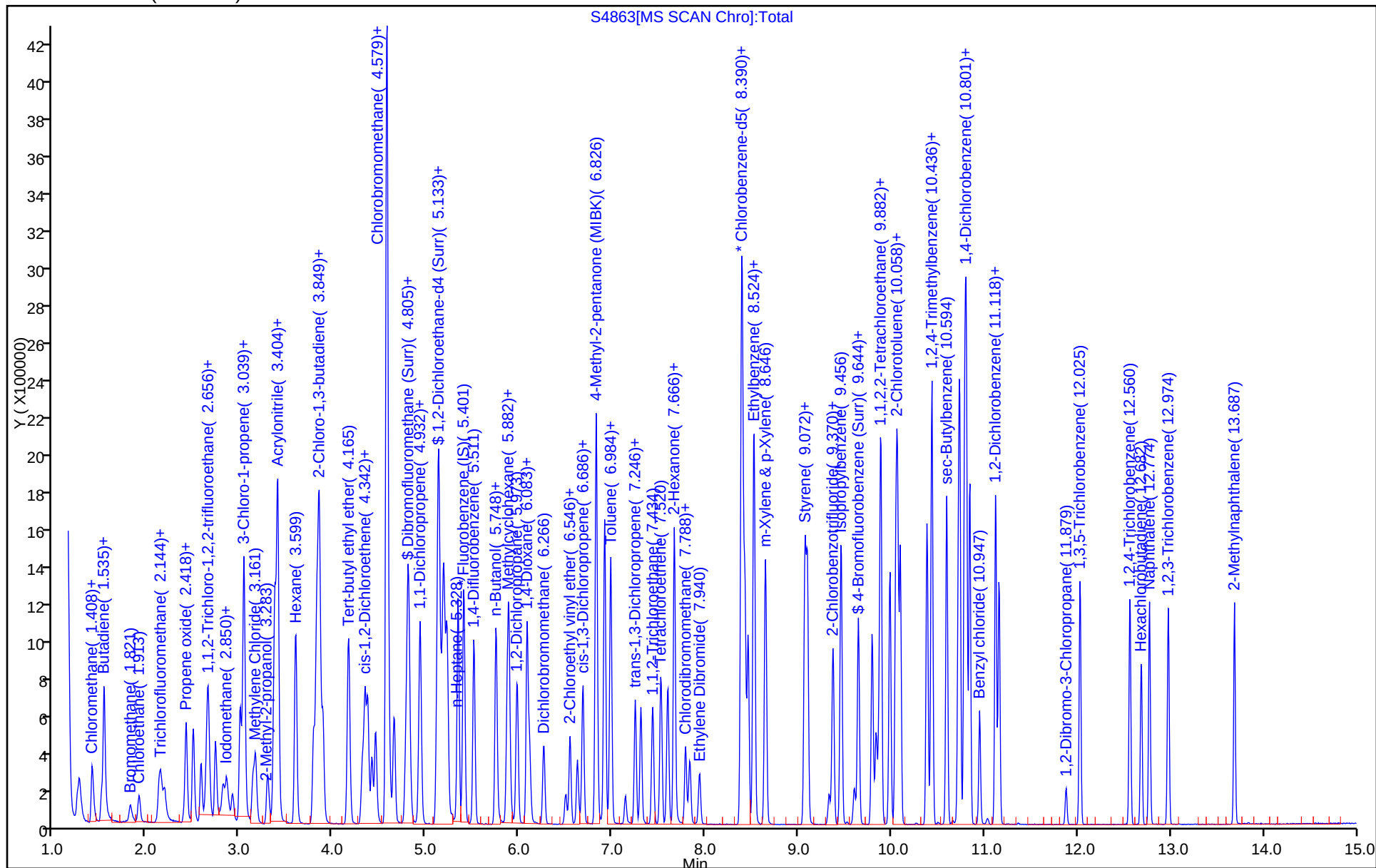
Dil. Factor: 1.0000

ALS Bottle#: 60

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14 MS</u>	Lab Sample ID: <u>480-90492-10 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4798.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 19:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	31.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	28.6		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	27.9		1.0	0.23
75-34-3	1,1-Dichloroethane	28.1		1.0	0.38
75-35-4	1,1-Dichloroethene	28.2		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	33.4		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	29.8		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	31.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	28.5		1.0	0.39
106-93-4	1,2-Dibromoethane	27.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	29.7		1.0	0.79
107-06-2	1,2-Dichloroethane	27.2		1.0	0.21
78-87-5	1,2-Dichloropropane	30.0		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	30.8		1.0	0.77
541-73-1	1,3-Dichlorobenzene	29.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	28.6		1.0	0.84
78-93-3	2-Butanone (MEK)	128		10	1.3
591-78-6	2-Hexanone	143		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	144		5.0	2.1
67-64-1	Acetone	126		10	3.0
71-43-2	Benzene	39.3		1.0	0.41
75-27-4	Bromodichloromethane	28.5		1.0	0.39
75-25-2	Bromoform	23.8		1.0	0.26
74-83-9	Bromomethane	39.0		1.0	0.69
75-15-0	Carbon disulfide	28.3		1.0	0.19
56-23-5	Carbon tetrachloride	28.7		1.0	0.27
108-90-7	Chlorobenzene	29.3		1.0	0.75
75-00-3	Chloroethane	35.0		1.0	0.32
67-66-3	Chloroform	28.2		1.0	0.34
74-87-3	Chloromethane	29.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	30.7		1.0	0.36
110-82-7	Cyclohexane	28.6		1.0	0.18
124-48-1	Dibromochloromethane	25.7		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-14 MS</u>	Lab Sample ID: <u>480-90492-10 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4798.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 09:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/16/2015 19:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275144</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	28.1		1.0	0.68
100-41-4	Ethylbenzene	30.1		1.0	0.74
98-82-8	Isopropylbenzene	31.3		1.0	0.79
79-20-9	Methyl acetate	141		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.4		1.0	0.16
108-87-2	Methylcyclohexane	28.5		1.0	0.16
75-09-2	Methylene Chloride	28.0		1.0	0.44
100-42-5	Styrene	31.5		1.0	0.73
127-18-4	Tetrachloroethene	29.9		1.0	0.36
108-88-3	Toluene	29.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	29.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.1		1.0	0.37
79-01-6	Trichloroethene	29.8		1.0	0.46
75-69-4	Trichlorofluoromethane	34.5		1.0	0.88
75-01-4	Vinyl chloride	31.5		1.0	0.90
1330-20-7	Xylenes, Total	60.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4798.D
 Lims ID: 480-90492-A-10 MS
 Client ID: 4009-14
 Sample Type: MS
 Inject. Date: 16-Nov-2015 19:56:30 ALS Bottle#: 87 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-10 ms
 Misc. Info.: 480-0048379-027
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 20:40:32 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 20:39:59

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	5.407	5.401	0.006	92	195426	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	377282	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.789	-0.006	74	335233	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.811	4.810	0.001	54	218536	27.2	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.121	5.115	0.006	0	163747	27.2	27.0	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	894173	27.2	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	252987	27.2	27.4	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	84	261995	25.0	28.1	
12 Chloromethane	50	1.407	1.407	0.000	88	491541	25.0	29.6	
13 Vinyl chloride	62	1.511	1.505	0.006	82	313262	25.0	31.5	
14 Bromomethane	94	1.815	1.797	0.018	90	97458	25.0	39.0	
15 Chloroethane	64	1.913	1.906	0.007	91	161245	25.0	35.0	
17 Trichlorofluoromethane	101	2.150	2.138	0.012	84	318395	25.0	34.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.649	2.649	0.000	52	213235	25.0	28.2	
22 1,1-Dichloroethene	96	2.662	2.655	0.007	77	209212	25.0	28.2	
23 Acetone	43	2.735	2.734	0.001	98	511352	125.0	125.9	
26 Carbon disulfide	76	2.856	2.850	0.006	99	534651	25.0	28.3	
27 Methyl acetate	43	3.039	3.039	0.000	98	1464150	125.0	141.3	
30 Methylene Chloride	84	3.167	3.136	0.031	77	226401	25.0	28.0	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	93	599447	25.0	26.4	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	85	221398	25.0	29.8	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	513114	25.0	28.1	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	245613	25.0	28.8	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	92	756789	125.0	128.0	
50 Chloroform	83	4.652	4.652	0.000	75	412393	25.0	28.2	
51 1,1,1-Trichloroethane	97	4.786	4.780	0.006	88	303746	25.0	31.0	
52 Cyclohexane	56	4.804	4.804	0.000	92	555472	25.0	28.6	
55 Carbon tetrachloride	117	4.926	4.926	0.000	75	275210	25.0	28.7	
57 Benzene	78	5.133	5.133	0.000	94	1301328	25.0	39.3	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	427405	25.0	27.2	
62 Trichloroethene	95	5.748	5.748	0.000	89	240553	25.0	29.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.882	5.888	-0.006	85	389826	25.0	28.5	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	88	283293	25.0	30.0	
68 Dichlorobromomethane	83	6.266	6.259	0.007	90	267577	25.0	28.5	
72 cis-1,3-Dichloropropene	75	6.686	6.685	0.001	75	344866	25.0	30.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	98	1643395	125.0	144.1	
74 Toluene	92	6.984	6.984	0.000	95	601146	25.0	29.6	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	89	293967	25.0	28.1	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	90	164313	25.0	27.9	
81 Tetrachloroethene	166	7.526	7.526	0.000	88	247636	25.0	29.9	
80 2-Hexanone	43	7.666	7.666	0.000	98	1137416	125.0	143.5	
83 Chlorodibromomethane	129	7.830	7.830	0.000	84	172488	25.0	25.7	
84 Ethylene Dibromide	107	7.940	7.940	0.000	96	196644	25.0	27.6	
87 Chlorobenzene	112	8.427	8.427	0.000	83	682221	25.0	29.3	
88 Ethylbenzene	91	8.524	8.524	0.000	96	1128417	25.0	30.1	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	444574		29.9	
91 o-Xylene	106	9.072	9.072	0.000	97	426572		30.9	
92 Styrene	104	9.096	9.096	0.000	91	692193	25.0	31.5	
95 Bromoform	173	9.334	9.334	0.000	93	81459	25.0	23.8	
94 Isopropylbenzene	105	9.456	9.462	-0.006	98	1088410	25.0	31.3	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	83	251854	25.0	28.6	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	93	947695	25.0	30.8	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	971414	25.0	31.6	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	507898	25.0	29.9	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	68	502243	25.0	28.6	
112 1,2,3-Trimethylbenzene	105	10.844	10.844	0.000	44	1068002	25.0	33.4	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	89	491427	25.0	29.7	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.878	0.000	65	38620	25.0	28.5	
119 1,2,4-Trichlorobenzene	180	12.560	12.566	-0.006	92	333285	25.0	29.8	
S 124 Xylenes, Total	1				0			60.8	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151116-48379.b\\S4798.D

Injection Date: 16-Nov-2015 19:56:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-10 MS

Worklist Smp#: 27

Client ID: 4009-14

Purge Vol: 5.000 mL

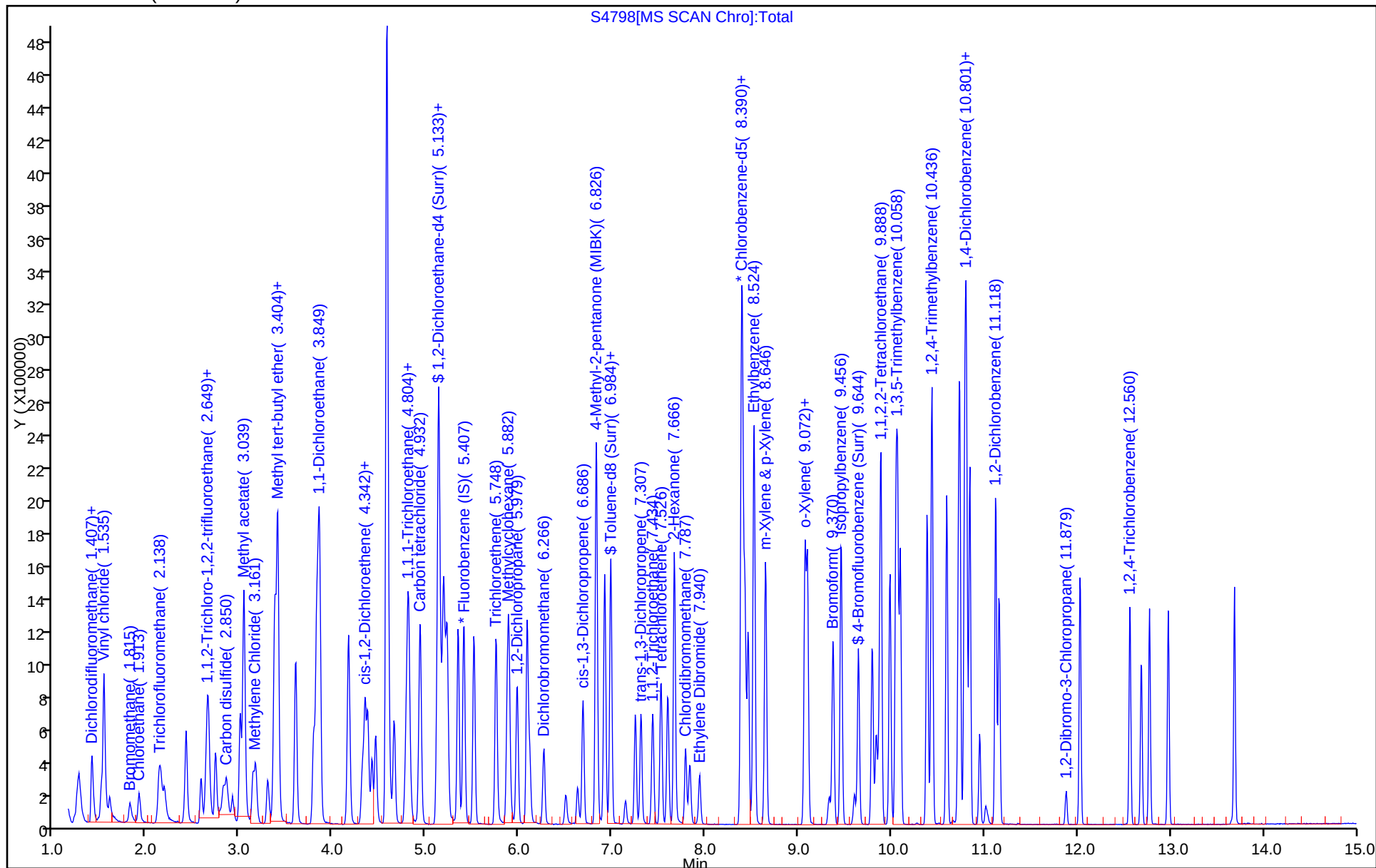
Dil. Factor: 1.0000

ALS Bottle#: 87

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I MS</u>	Lab Sample ID: <u>480-90492-19 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4886.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/18/2015 07:34</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275520</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	31.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	28.7		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	28.1		1.0	0.23
75-34-3	1,1-Dichloroethane	28.6		1.0	0.38
75-35-4	1,1-Dichloroethene	29.2		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	30.8		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	29.1		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	30.8		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	28.2		1.0	0.39
106-93-4	1,2-Dibromoethane	27.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	28.9		1.0	0.79
107-06-2	1,2-Dichloroethane	27.5		1.0	0.21
78-87-5	1,2-Dichloropropane	29.0		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	29.8		1.0	0.77
541-73-1	1,3-Dichlorobenzene	28.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	28.2		1.0	0.84
78-93-3	2-Butanone (MEK)	129		10	1.3
591-78-6	2-Hexanone	145		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	145		5.0	2.1
67-64-1	Acetone	127		10	3.0
71-43-2	Benzene	29.8		1.0	0.41
75-27-4	Bromodichloromethane	28.9		1.0	0.39
75-25-2	Bromoform	23.1		1.0	0.26
74-83-9	Bromomethane	34.7		1.0	0.69
75-15-0	Carbon disulfide	30.8		1.0	0.19
56-23-5	Carbon tetrachloride	28.6		1.0	0.27
108-90-7	Chlorobenzene	29.1		1.0	0.75
75-00-3	Chloroethane	29.9		1.0	0.32
67-66-3	Chloroform	28.3		1.0	0.34
74-87-3	Chloromethane	26.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	29.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	30.9		1.0	0.36
110-82-7	Cyclohexane	30.6		1.0	0.18
124-48-1	Dibromochloromethane	26.2		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I MS</u>	Lab Sample ID: <u>480-90492-19 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4886.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/18/2015 07:34</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275520</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	24.4		1.0	0.68
100-41-4	Ethylbenzene	29.6		1.0	0.74
98-82-8	Isopropylbenzene	30.9		1.0	0.79
79-20-9	Methyl acetate	142		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.8		1.0	0.16
108-87-2	Methylcyclohexane	30.6		1.0	0.16
75-09-2	Methylene Chloride	28.6		1.0	0.44
100-42-5	Styrene	31.2		1.0	0.73
127-18-4	Tetrachloroethene	29.6		1.0	0.36
108-88-3	Toluene	27.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	30.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.2		1.0	0.37
79-01-6	Trichloroethene	30.3		1.0	0.46
75-69-4	Trichlorofluoromethane	29.5		1.0	0.88
75-01-4	Vinyl chloride	28.0		1.0	0.90
1330-20-7	Xylenes, Total	59.0		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	103		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4886.D
 Lims ID: 480-90492-B-19 MS
 Client ID: 4009-271
 Sample Type: MS
 Inject. Date: 18-Nov-2015 07:34:30 ALS Bottle#: 83 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-B-19 MS
 Misc. Info.: 480-0048440-007
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 18-Nov-2015 09:12:20 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: gentilej

Date: 18-Nov-2015 09:12:20

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	5.401	5.401	0.000	96	181533	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.390	0.006	88	351879	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	74	314220	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.810	4.811	0.000	57	218890	27.2	29.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	158088	27.2	28.0	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	91	872207	27.2	27.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	80	251519	27.2	29.2	
10 Dichlorodifluoromethane	85	1.255	1.249	0.006	83	211919	25.0	24.4	
12 Chloromethane	50	1.407	1.407	0.000	89	416144	25.0	26.9	
13 Vinyl chloride	62	1.511	1.517	-0.006	83	258465	25.0	28.0	
14 Bromomethane	94	1.821	1.815	0.006	85	80552	25.0	34.7	
15 Chloroethane	64	1.919	1.913	0.006	91	127831	25.0	29.9	
17 Trichlorofluoromethane	101	2.150	2.144	0.006	81	253000	25.0	29.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.655	2.649	0.006	51	209229	25.0	29.8	
22 1,1-Dichloroethene	96	2.661	2.655	0.006	78	201311	25.0	29.2	
23 Acetone	43	2.734	2.734	0.000	98	479563	125.0	127.1	
26 Carbon disulfide	76	2.856	2.850	0.006	98	541503	25.0	30.8	
27 Methyl acetate	43	3.045	3.039	0.006	97	1364389	125.0	141.8	
30 Methylene Chloride	84	3.167	3.136	0.031	81	214553	25.0	28.6	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	89	564908	25.0	26.8	
34 trans-1,2-Dichloroethene	96	3.380	3.374	0.006	86	213330	25.0	30.9	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	484393	25.0	28.6	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	75	230981	25.0	29.1	
43 2-Butanone (MEK)	43	4.372	4.366	0.006	92	706125	125.0	128.6	
50 Chloroform	83	4.658	4.652	0.006	74	385061	25.0	28.3	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	89	284247	25.0	31.3	
52 Cyclohexane	56	4.804	4.810	-0.006	92	553394	25.0	30.6	
55 Carbon tetrachloride	117	4.926	4.926	0.000	76	254917	25.0	28.6	
57 Benzene	78	5.133	5.133	0.000	93	916812	25.0	29.8	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	73	401192	25.0	27.5	
62 Trichloroethene	95	5.748	5.748	0.000	90	227688	25.0	30.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.888	5.888	0.006	91	389544	25.0	30.6	
65 1,2-Dichloropropane	63	5.979	5.973	0.006	88	253788	25.0	29.0	
68 Dichlorobromomethane	83	6.265	6.265	0.000	88	251442	25.0	28.9	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	75	322991	25.0	30.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.825	6.825	0.000	98	1542150	125.0	145.0	
74 Toluene	92	6.984	6.984	0.000	91	527775	25.0	27.9	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.001	91	275818	25.0	28.2	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	89	154220	25.0	28.1	
81 Tetrachloroethene	166	7.520	7.519	0.001	87	228232	25.0	29.6	
80 2-Hexanone	43	7.666	7.666	0.000	99	1069413	125.0	144.6	
83 Chlorodibromomethane	129	7.830	7.830	0.000	87	163897	25.0	26.2	
84 Ethylene Dibromide	107	7.933	7.940	-0.007	98	183414	25.0	27.6	
87 Chlorobenzene	112	8.427	8.427	0.000	83	632051	25.0	29.1	
88 Ethylbenzene	91	8.524	8.524	0.000	93	1035113	25.0	29.6	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	399761		28.8	
91 o-Xylene	106	9.072	9.072	0.000	97	388965		30.2	
92 Styrene	104	9.096	9.096	0.000	92	640000	25.0	31.2	
95 Bromoform	173	9.334	9.334	0.000	93	73802	25.0	23.1	
94 Isopropylbenzene	105	9.462	9.455	0.007	97	1006679	25.0	30.9	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	80	236883	25.0	28.7	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	91	860255	25.0	29.8	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	69	885390	25.0	30.8	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	93	459907	25.0	28.9	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	79	463361	25.0	28.2	
112 1,2,3-Trimethylbenzene	105	10.843	10.844	-0.001	93	923860	25.0	30.8	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	89	448143	25.0	28.9	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	61	35886	25.0	28.2	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	92	305645	25.0	29.1	
S 124 Xylenes, Total	1				0			59.0	

Reagents:

8260 CORP mix_00058	Amount Added: 12.50	Units: uL	
GAS CORP mix_00120	Amount Added: 12.50	Units: uL	
ADD CORP mix_00037	Amount Added: 12.50	Units: uL	
S_8260_IS_00125	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00116	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151117-48440.b\\S4886.D

Injection Date: 18-Nov-2015 07:34:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-B-19 MS

Worklist Smp#: 7

Client ID: 4009-271

Purge Vol: 5.000 mL

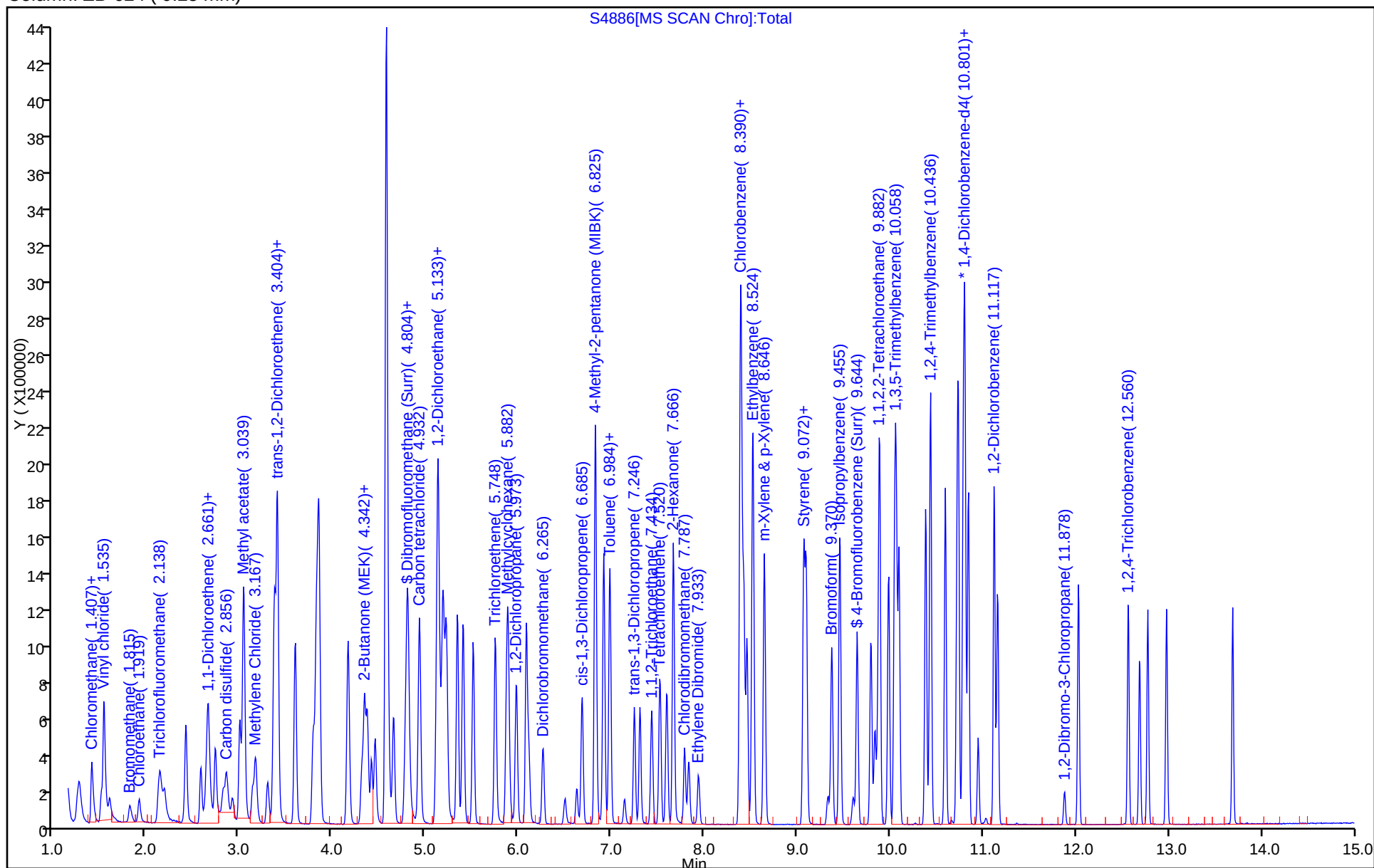
Dil. Factor: 1.0000

ALS Bottle#: 83

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.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-14 MSD Lab Sample ID: 480-90492-10 MSD

Matrix: Water Lab File ID: S4799.D

Analysis Method: 8260C Date Collected: 11/04/2015 09:05

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 20:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	31.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	29.0		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	28.1		1.0	0.23
75-34-3	1,1-Dichloroethane	29.1		1.0	0.38
75-35-4	1,1-Dichloroethene	28.6		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	33.3		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	30.7		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	31.8		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	30.3		1.0	0.39
106-93-4	1,2-Dibromoethane	29.4		1.0	0.73
95-50-1	1,2-Dichlorobenzene	30.0		1.0	0.79
107-06-2	1,2-Dichloroethane	28.2		1.0	0.21
78-87-5	1,2-Dichloropropane	30.7		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	31.5		1.0	0.77
541-73-1	1,3-Dichlorobenzene	29.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	29.0		1.0	0.84
78-93-3	2-Butanone (MEK)	128		10	1.3
591-78-6	2-Hexanone	145		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	145		5.0	2.1
67-64-1	Acetone	127		10	3.0
71-43-2	Benzene	39.8		1.0	0.41
75-27-4	Bromodichloromethane	29.6		1.0	0.39
75-25-2	Bromoform	25.2		1.0	0.26
74-83-9	Bromomethane	38.6		1.0	0.69
75-15-0	Carbon disulfide	30.3		1.0	0.19
56-23-5	Carbon tetrachloride	30.6		1.0	0.27
108-90-7	Chlorobenzene	30.4		1.0	0.75
75-00-3	Chloroethane	33.2		1.0	0.32
67-66-3	Chloroform	28.9		1.0	0.34
74-87-3	Chloromethane	28.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	29.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	31.9		1.0	0.36
110-82-7	Cyclohexane	29.9		1.0	0.18
124-48-1	Dibromochloromethane	27.3		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-90492-1

SDG No.: _____

Client Sample ID: 4009-14 MSD Lab Sample ID: 480-90492-10 MSD

Matrix: Water Lab File ID: S4799.D

Analysis Method: 8260C Date Collected: 11/04/2015 09:05

Sample wt/vol: 5 (mL) Date Analyzed: 11/16/2015 20:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 275144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	28.4		1.0	0.68
100-41-4	Ethylbenzene	31.1		1.0	0.74
98-82-8	Isopropylbenzene	32.7		1.0	0.79
79-20-9	Methyl acetate	140		2.5	1.3
1634-04-4	Methyl tert-butyl ether	27.1		1.0	0.16
108-87-2	Methylcyclohexane	29.1		1.0	0.16
75-09-2	Methylene Chloride	29.1		1.0	0.44
100-42-5	Styrene	33.0		1.0	0.73
127-18-4	Tetrachloroethene	31.4		1.0	0.36
108-88-3	Toluene	30.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	30.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	30.2		1.0	0.37
79-01-6	Trichloroethene	30.8		1.0	0.46
75-69-4	Trichlorofluoromethane	33.4		1.0	0.88
75-01-4	Vinyl chloride	31.9		1.0	0.90
1330-20-7	Xylenes, Total	63.0		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S4799.D
 Lims ID: 480-90492-A-10 MSD
 Client ID: 4009-14
 Sample Type: MSD
 Inject. Date: 16-Nov-2015 20:18:30 ALS Bottle#: 88 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-a-10 msd
 Misc. Info.: 480-0048379-028
 Operator ID: GTG Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151116-48379.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Nov-2015 20:40:32 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: o'briens

Date: 16-Nov-2015 20:40:31

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	5.407	5.401	0.006	92	201016	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.396	0.000	88	383643	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.789	10.789	0.000	62	347351	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.810	-0.006	53	224930	27.2	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	164982	27.2	26.4	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	93	908038	27.2	26.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	79	255219	27.2	27.2	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	85	273118	25.0	28.4	
12 Chloromethane	50	1.407	1.407	0.000	88	492231	25.0	28.8	
13 Vinyl chloride	62	1.511	1.505	0.006	82	326289	25.0	31.9	
14 Bromomethane	94	1.821	1.797	0.024	90	99063	25.0	38.6	
15 Chloroethane	64	1.913	1.906	0.007	92	157255	25.0	33.2	
17 Trichlorofluoromethane	101	2.150	2.138	0.012	84	316431	25.0	33.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.655	2.649	0.006	49	229406	25.0	29.5	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	76	218889	25.0	28.6	
23 Acetone	43	2.734	2.734	0.000	98	532130	125.0	127.4	
26 Carbon disulfide	76	2.856	2.850	0.006	98	590264	25.0	30.3	
27 Methyl acetate	43	3.045	3.039	0.006	97	1492542	125.0	140.1	
30 Methylene Chloride	84	3.167	3.136	0.031	80	241113	25.0	29.1	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	93	634134	25.0	27.1	
34 trans-1,2-Dichloroethene	96	3.380	3.380	0.000	85	235734	25.0	30.8	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	85	546051	25.0	29.1	
45 cis-1,2-Dichloroethene	96	4.348	4.342	0.006	74	254961	25.0	29.1	
43 2-Butanone (MEK)	43	4.372	4.372	0.000	92	775459	125.0	127.5	
50 Chloroform	83	4.652	4.652	0.000	74	434330	25.0	28.9	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	88	317508	25.0	31.5	
52 Cyclohexane	56	4.804	4.804	0.000	93	598109	25.0	29.9	
55 Carbon tetrachloride	117	4.926	4.926	0.000	80	301187	25.0	30.6	
57 Benzene	78	5.133	5.133	0.000	94	1355336	25.0	39.8	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	72	455093	25.0	28.2	
62 Trichloroethene	95	5.748	5.748	0.000	89	256274	25.0	30.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.888	5.888	0.000	89	409511	25.0	29.1	
65 1,2-Dichloropropane	63	5.979	5.979	0.000	87	297991	25.0	30.7	
68 Dichlorobromomethane	83	6.265	6.259	0.006	88	285535	25.0	29.6	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	77	368980	25.0	31.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	99	1684755	125.0	145.3	
74 Toluene	92	6.984	6.984	0.000	92	624668	25.0	30.3	
77 trans-1,3-Dichloropropene	75	7.246	7.246	0.000	90	321750	25.0	30.2	
79 1,1,2-Trichloroethane	83	7.434	7.434	0.000	90	168429	25.0	28.1	
81 Tetrachloroethene	166	7.526	7.526	0.000	89	264191	25.0	31.4	
80 2-Hexanone	43	7.666	7.666	0.000	99	1168993	125.0	145.0	
83 Chlorodibromomethane	129	7.836	7.830	0.006	86	186462	25.0	27.3	
84 Ethylene Dibromide	107	7.940	7.940	0.000	94	213248	25.0	29.4	
87 Chlorobenzene	112	8.427	8.427	0.000	82	719153	25.0	30.4	
88 Ethylbenzene	91	8.524	8.524	0.000	93	1185770	25.0	31.1	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	465017		30.7	
91 o-Xylene	106	9.072	9.072	0.000	97	453992		32.3	
92 Styrene	104	9.096	9.096	0.000	93	735859	25.0	33.0	
95 Bromoform	173	9.328	9.334	-0.006	93	87971	25.0	25.2	
94 Isopropylbenzene	105	9.462	9.462	0.000	97	1178382	25.0	32.7	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	78	264818	25.0	29.0	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	93	1003993	25.0	31.5	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	68	1013167	25.0	31.8	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	94	520673	25.0	29.6	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	77	527666	25.0	29.0	
112 1,2,3-Trimethylbenzene	105	10.843	10.844	-0.001	68	1104793	25.0	33.3	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	90	513493	25.0	30.0	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	60	42563	25.0	30.3	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	92	356596	25.0	30.7	
S 124 Xylenes, Total	1				0			63.1	

Reagents:

8260 CORP mix_00058

Amount Added: 12.50

Units: uL

GAS CORP mix_00120

Amount Added: 12.50

Units: uL

ADD CORP mix_00037

Amount Added: 12.50

Units: uL

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151116-48379.b\\S4799.D

Injection Date: 16-Nov-2015 20:18:30

Instrument ID: HP5973S

Operator ID: GTG

Lims ID: 480-90492-A-10 MSD

Worklist Smp#: 28

Client ID: 4009-14

Purge Vol: 5.000 mL

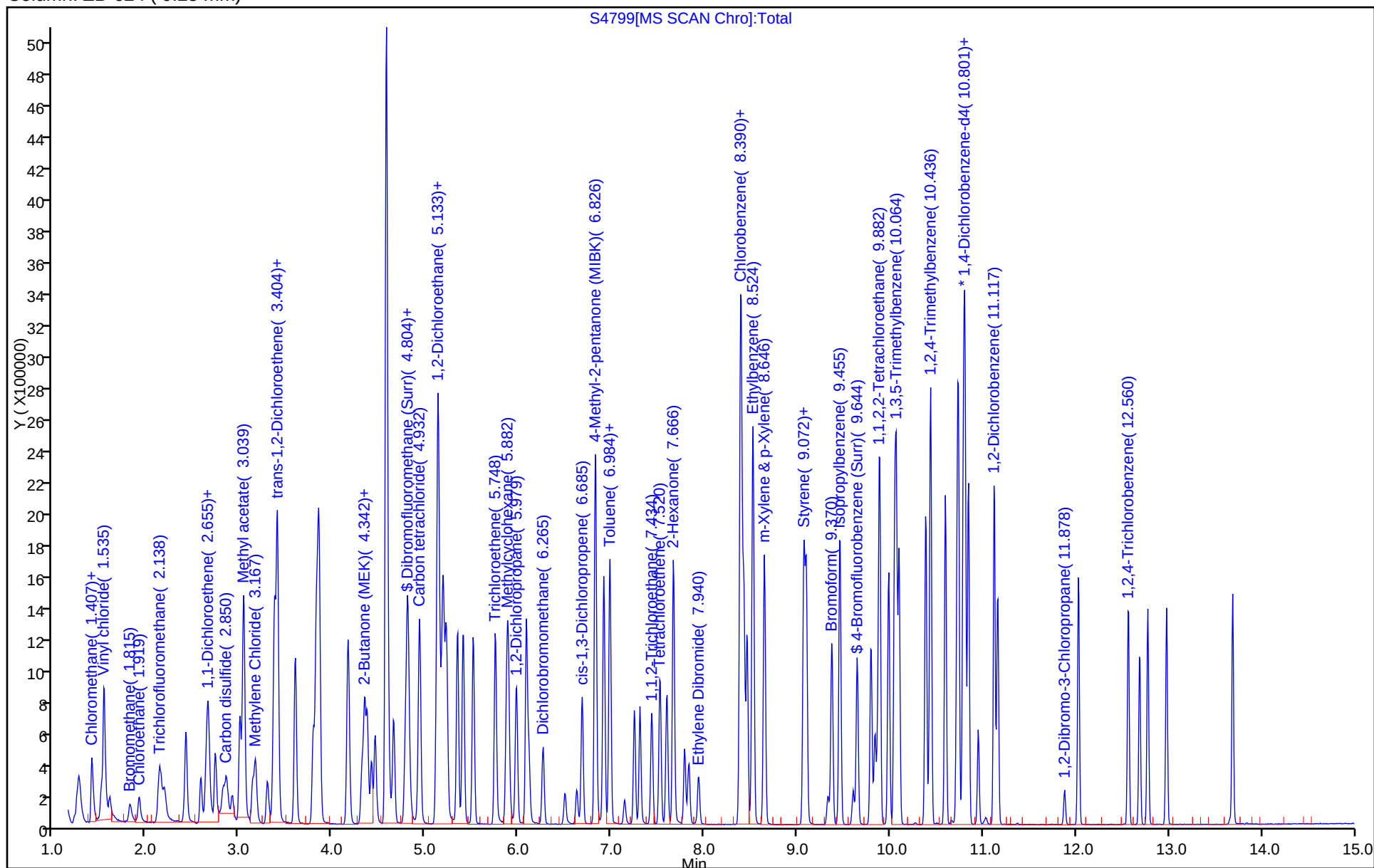
Dil. Factor: 1.0000

ALS Bottle#: 88

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>480-90492-1</u>
SDG No.: _____	
Client Sample ID: <u>4009-27I MSD</u>	Lab Sample ID: <u>480-90492-19 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>S4887.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/04/2015 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>11/18/2015 07:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275520</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	32.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	30.0		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	29.3		1.0	0.23
75-34-3	1,1-Dichloroethane	30.5		1.0	0.38
75-35-4	1,1-Dichloroethene	29.9		1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	32.8		1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	30.3		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	32.1		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	30.1		1.0	0.39
106-93-4	1,2-Dibromoethane	30.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	30.2		1.0	0.79
107-06-2	1,2-Dichloroethane	28.5		1.0	0.21
78-87-5	1,2-Dichloropropane	31.4		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	31.8		1.0	0.77
541-73-1	1,3-Dichlorobenzene	29.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	29.6		1.0	0.84
78-93-3	2-Butanone (MEK)	138		10	1.3
591-78-6	2-Hexanone	154		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	152		5.0	2.1
67-64-1	Acetone	134		10	3.0
71-43-2	Benzene	30.7		1.0	0.41
75-27-4	Bromodichloromethane	30.4		1.0	0.39
75-25-2	Bromoform	24.1		1.0	0.26
74-83-9	Bromomethane	32.9		1.0	0.69
75-15-0	Carbon disulfide	32.7		1.0	0.19
56-23-5	Carbon tetrachloride	30.9		1.0	0.27
108-90-7	Chlorobenzene	30.2		1.0	0.75
75-00-3	Chloroethane	28.5		1.0	0.32
67-66-3	Chloroform	29.6		1.0	0.34
74-87-3	Chloromethane	25.1		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	32.0		1.0	0.36
110-82-7	Cyclohexane	30.7		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: TestAmerica Buffalo Job No.: 480-90492-1
 SDG No.: _____
 Client Sample ID: 4009-27I MSD Lab Sample ID: 480-90492-19 MSD
 Matrix: Water Lab File ID: S4887.D
 Analysis Method: 8260C Date Collected: 11/04/2015 10:50
 Sample wt/vol: 5 (mL) Date Analyzed: 11/18/2015 07:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275520 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.9		1.0	0.68
100-41-4	Ethylbenzene	31.0		1.0	0.74
98-82-8	Isopropylbenzene	32.4		1.0	0.79
79-20-9	Methyl acetate	148		2.5	1.3
1634-04-4	Methyl tert-butyl ether	28.5		1.0	0.16
108-87-2	Methylcyclohexane	31.0		1.0	0.16
75-09-2	Methylene Chloride	28.7		1.0	0.44
100-42-5	Styrene	32.6		1.0	0.73
127-18-4	Tetrachloroethene	30.7		1.0	0.36
108-88-3	Toluene	29.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	31.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.7		1.0	0.37
79-01-6	Trichloroethene	32.1		1.0	0.46
75-69-4	Trichlorofluoromethane	30.4		1.0	0.88
75-01-4	Vinyl chloride	27.1		1.0	0.90
1330-20-7	Xylenes, Total	61.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	111		60-140
2037-26-5	Toluene-d8 (Surr)	107		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S4887.D
 Lims ID: 480-90492-B-19 MSD
 Client ID: 4009-271
 Sample Type: MSD
 Inject. Date: 18-Nov-2015 07:57:30 ALS Bottle#: 84 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-90492-B-19 MSD
 Misc. Info.: 480-0048440-008
 Operator ID: SO Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20151117-48440.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 18-Nov-2015 09:12:42 Calib Date: 09-Nov-2015 23:46:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20151109-48176.b\S4496.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: gentilej

Date: 18-Nov-2015 09:12:42

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	5.401	5.401	0.000	96	176543	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.396	8.390	0.006	88	342774	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.783	10.783	0.000	90	305863	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.804	4.811	-0.006	59	220745	27.2	30.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.115	5.115	0.000	0	160452	27.2	29.3	
\$ 5 Toluene-d8 (Surr)	98	6.917	6.917	0.000	92	886262	27.2	29.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.644	9.644	0.000	81	252044	27.2	30.1	
10 Dichlorodifluoromethane	85	1.249	1.249	0.000	84	193417	25.0	22.9	
12 Chloromethane	50	1.401	1.407	-0.006	89	376595	25.0	25.1	
13 Vinyl chloride	62	1.505	1.517	-0.012	81	243024	25.0	27.1	
14 Bromomethane	94	1.815	1.815	0.000	90	74216	25.0	32.9	
15 Chloroethane	64	1.913	1.913	0.000	92	118173	25.0	28.5	
17 Trichlorofluoromethane	101	2.150	2.144	0.006	81	252900	25.0	30.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.655	2.649	0.006	46	204555	25.0	30.0	
22 1,1-Dichloroethene	96	2.655	2.655	0.000	77	200745	25.0	29.9	
23 Acetone	43	2.734	2.734	0.000	98	491691	125.0	134.0	
26 Carbon disulfide	76	2.856	2.850	0.006	98	559201	25.0	32.7	
27 Methyl acetate	43	3.039	3.039	0.000	98	1380911	125.0	147.5	
30 Methylene Chloride	84	3.167	3.136	0.031	81	208998	25.0	28.7	
32 Methyl tert-butyl ether	73	3.368	3.368	0.000	92	585624	25.0	28.5	
34 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	82	214416	25.0	31.9	
39 1,1-Dichloroethane	63	3.788	3.788	0.000	86	501546	25.0	30.5	
45 cis-1,2-Dichloroethene	96	4.342	4.342	0.000	74	222504	25.0	28.9	
43 2-Butanone (MEK)	43	4.372	4.366	0.006	91	736453	125.0	137.9	
50 Chloroform	83	4.652	4.652	0.000	75	391070	25.0	29.6	
51 1,1,1-Trichloroethane	97	4.780	4.780	0.000	89	290624	25.0	32.9	
52 Cyclohexane	56	4.804	4.810	-0.006	93	539095	25.0	30.7	
55 Carbon tetrachloride	117	4.926	4.926	0.000	71	267278	25.0	30.9	
57 Benzene	78	5.133	5.133	0.000	93	920354	25.0	30.7	
58 1,2-Dichloroethane	62	5.188	5.188	0.000	73	404644	25.0	28.5	
62 Trichloroethene	95	5.748	5.748	0.000	90	234314	25.0	32.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.888	5.888	0.006	91	383066	25.0	31.0	
65 1,2-Dichloropropane	63	5.979	5.973	0.006	89	267630	25.0	31.4	
68 Dichlorobromomethane	83	6.265	6.265	0.000	90	257621	25.0	30.4	
72 cis-1,3-Dichloropropene	75	6.685	6.685	0.000	79	324780	25.0	32.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.826	6.825	0.001	98	1579783	125.0	152.5	
74 Toluene	92	6.984	6.984	0.000	92	540171	25.0	29.3	
77 trans-1,3-Dichloropropene	75	7.246	7.245	0.001	92	282394	25.0	29.7	
79 1,1,2-Trichloroethane	83	7.428	7.434	-0.006	86	156725	25.0	29.3	
81 Tetrachloroethene	166	7.526	7.519	0.007	88	231149	25.0	30.7	
80 2-Hexanone	43	7.666	7.666	0.000	99	1111113	125.0	154.3	
83 Chlorodibromomethane	129	7.830	7.830	0.000	87	162459	25.0	26.6	
84 Ethylene Dibromide	107	7.940	7.940	0.000	98	194726	25.0	30.1	
87 Chlorobenzene	112	8.427	8.427	0.000	84	638902	25.0	30.2	
88 Ethylbenzene	91	8.524	8.524	0.000	84	1057964	25.0	31.0	
90 m-Xylene & p-Xylene	106	8.646	8.646	0.000	0	413290		30.6	
91 o-Xylene	106	9.072	9.072	0.000	97	392628		31.3	
92 Styrene	104	9.096	9.096	0.000	93	650512	25.0	32.6	
95 Bromoform	173	9.328	9.334	-0.006	92	75094	25.0	24.1	
94 Isopropylbenzene	105	9.455	9.455	0.000	97	1026493	25.0	32.4	
97 1,1,2,2-Tetrachloroethane	83	9.833	9.833	0.000	81	241644	25.0	30.0	
102 1,3,5-Trimethylbenzene	105	10.064	10.064	0.000	92	894571	25.0	31.8	
107 1,2,4-Trimethylbenzene	105	10.436	10.436	0.000	68	898000	25.0	32.1	
111 1,3-Dichlorobenzene	146	10.722	10.722	0.000	93	462895	25.0	29.9	
113 1,4-Dichlorobenzene	146	10.807	10.807	0.000	80	473463	25.0	29.6	
112 1,2,3-Trimethylbenzene	105	10.843	10.844	-0.001	44	958664	25.0	32.8	
116 1,2-Dichlorobenzene	146	11.160	11.160	0.000	90	454947	25.0	30.2	
117 1,2-Dibromo-3-Chloropropan	75	11.878	11.878	0.000	65	37229	25.0	30.1	
119 1,2,4-Trichlorobenzene	180	12.566	12.566	0.000	92	309768	25.0	30.3	
S 124 Xylenes, Total	1				0			61.9	

Reagents:

8260 CORP mix_00058

Amount Added: 12.50

Units: uL

GAS CORP mix_00120

Amount Added: 12.50

Units: uL

ADD CORP mix_00037

Amount Added: 12.50

Units: uL

S_8260_IS_00125

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00116

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973S\\20151117-48440.b\\S4887.D

Injection Date: 18-Nov-2015 07:57:30

Instrument ID: HP5973S

Operator ID: SO

Lims ID: 480-90492-B-19 MSD

Worklist Smp#: 8

Client ID: 4009-271

Purge Vol: 5.000 mL

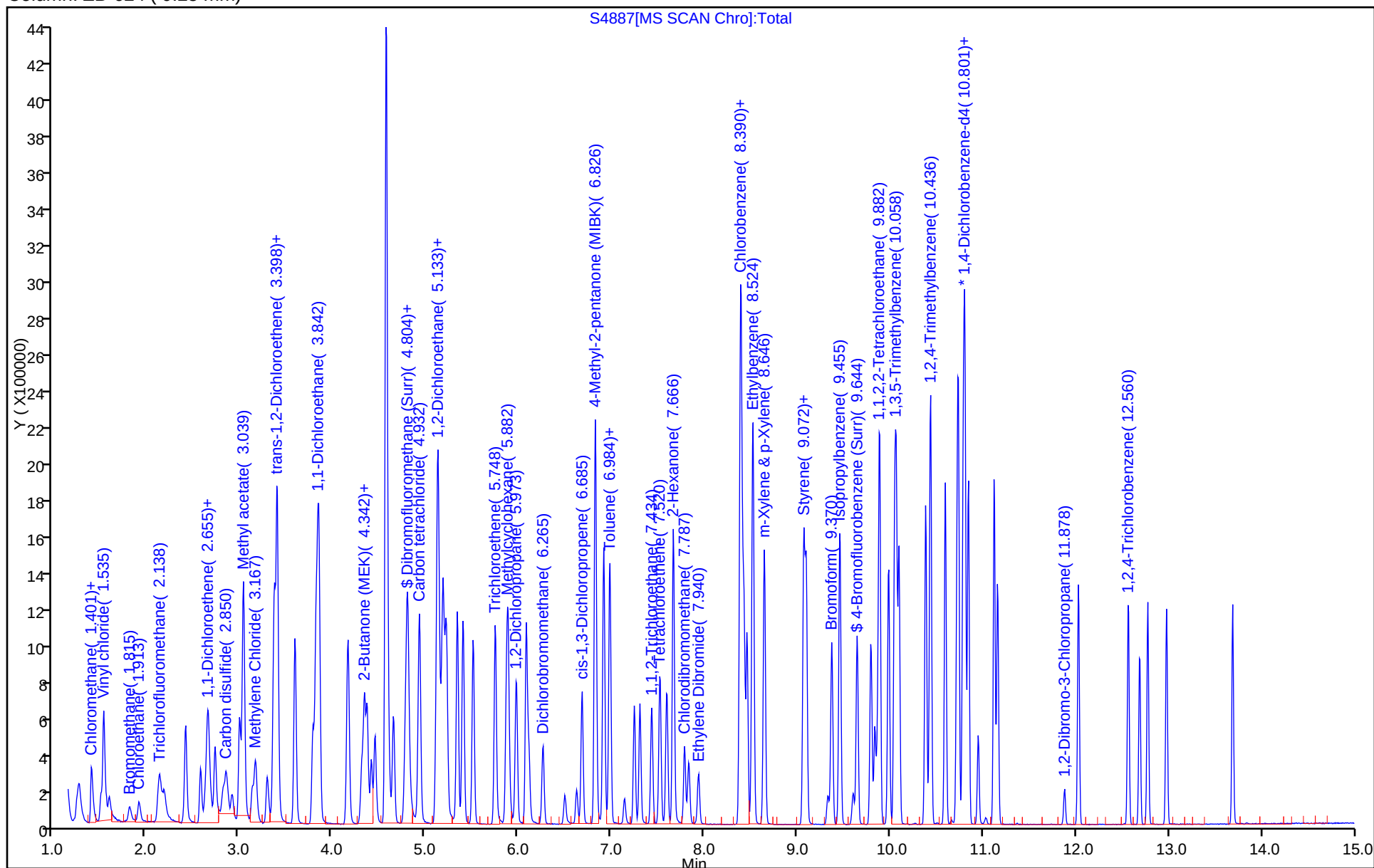
Dil. Factor: 1.0000

ALS Bottle#: 84

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-90492-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 11/09/2015 16:49Analysis Batch Number: 273987End Date: 11/10/2015 01:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-273987/3		11/09/2015 16:49	1	S4478.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/5		11/09/2015 17:43	1	S4480.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/6		11/09/2015 18:06	1	S4481.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/7		11/09/2015 18:29	1	S4482.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/8		11/09/2015 18:51	1	S4483.D	ZB-624 (60) 0.25 (mm)
ICIS 480-273987/9		11/09/2015 19:14	1	S4484.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/10		11/09/2015 19:37	1	S4485.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/11		11/09/2015 20:00	1	S4486.D	ZB-624 (60) 0.25 (mm)
MDLV 480-273987/13		11/09/2015 20:45	1		ZB-624 (60) 0.25 (mm)
IC 480-273987/15		11/09/2015 21:31	1	S4490.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/16		11/09/2015 21:53	1	S4491.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/17		11/09/2015 22:16	1	S4492.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/18		11/09/2015 22:38	1	S4493.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/19		11/09/2015 23:00	1	S4494.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/20		11/09/2015 23:23	1	S4495.D	ZB-624 (60) 0.25 (mm)
IC 480-273987/21		11/09/2015 23:46	1	S4496.D	ZB-624 (60) 0.25 (mm)
MDLV 480-273987/23		11/10/2015 00:31	1		ZB-624 (60) 0.25 (mm)
ICV 480-273987/24		11/10/2015 00:54	1		ZB-624 (60) 0.25 (mm)
ICV 480-273987/25		11/10/2015 01:17	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-90492-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 11/16/2015 09:14Analysis Batch Number: 275144End Date: 11/16/2015 20:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-275144/3		11/16/2015 09:14	1	S4772.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-275144/4		11/16/2015 09:43	1	S4773.D	ZB-624 (60) 0.25 (mm)
CCV 480-275144/5		11/16/2015 10:06	1	S4774.D	ZB-624 (60) 0.25 (mm)
MB 480-275144/8		11/16/2015 11:15	1	S4777.D	ZB-624 (60) 0.25 (mm)
LCS 480-275144/29		11/16/2015 11:55	1	S4778.D	ZB-624 (60) 0.25 (mm)
480-90492-1	WELL 1-2A	11/16/2015 13:05	1	S4780.D	ZB-624 (60) 0.25 (mm)
480-90492-2	WELL 1-3	11/16/2015 13:28	1	S4781.D	ZB-624 (60) 0.25 (mm)
480-90492-3	WELL 1-1	11/16/2015 13:51	5	S4782.D	ZB-624 (60) 0.25 (mm)
480-90492-4	4009-9	11/16/2015 14:14	1	S4783.D	ZB-624 (60) 0.25 (mm)
480-90492-5	4009-10	11/16/2015 14:37	1	S4784.D	ZB-624 (60) 0.25 (mm)
480-90492-6	4009-11	11/16/2015 15:00	1	S4785.D	ZB-624 (60) 0.25 (mm)
480-90492-7	4009-12	11/16/2015 15:22	1	S4786.D	ZB-624 (60) 0.25 (mm)
480-90492-8	4009-13	11/16/2015 15:45	1	S4787.D	ZB-624 (60) 0.25 (mm)
480-90492-9	4009-13A	11/16/2015 16:08	1	S4788.D	ZB-624 (60) 0.25 (mm)
480-90492-10	4009-14	11/16/2015 16:31	1	S4789.D	ZB-624 (60) 0.25 (mm)
480-90492-11	4009-15	11/16/2015 16:54	1	S4790.D	ZB-624 (60) 0.25 (mm)
480-90492-12	4009-16	11/16/2015 17:17	1	S4791.D	ZB-624 (60) 0.25 (mm)
480-90492-13	4009-16A	11/16/2015 17:40	1	S4792.D	ZB-624 (60) 0.25 (mm)
480-90492-14	4009-18	11/16/2015 18:03	1	S4793.D	ZB-624 (60) 0.25 (mm)
480-90492-15	4009-19	11/16/2015 18:25	1	S4794.D	ZB-624 (60) 0.25 (mm)
480-90492-16	4009-21	11/16/2015 18:48	1	S4795.D	ZB-624 (60) 0.25 (mm)
480-90492-17	4009-22	11/16/2015 19:10	1	S4796.D	ZB-624 (60) 0.25 (mm)
480-90492-18	4009-27S	11/16/2015 19:33	1	S4797.D	ZB-624 (60) 0.25 (mm)
480-90492-10 MS	4009-14 MS	11/16/2015 19:56	1	S4798.D	ZB-624 (60) 0.25 (mm)
480-90492-10 MSD	4009-14 MSD	11/16/2015 20:18	1	S4799.D	ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-90492-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 11/16/2015 22:34Analysis Batch Number: 275311End Date: 11/17/2015 07:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-275311/1		11/16/2015 22:34	1	S4804.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-275311/2		11/16/2015 22:57	1	S4805.D	ZB-624 (60) 0.25 (mm)
CCV 480-275311/3		11/16/2015 23:20	1	S4806.D	ZB-624 (60) 0.25 (mm)
LCS 480-275311/4		11/16/2015 23:44	1	S4807.D	ZB-624 (60) 0.25 (mm)
MB 480-275311/6		11/17/2015 00:29	1	S4809.D	ZB-624 (60) 0.25 (mm)
480-90492-19	4009-27I	11/17/2015 01:05	1	S4810.D	ZB-624 (60) 0.25 (mm)
480-90492-20	4009-27D	11/17/2015 01:28	1	S4811.D	ZB-624 (60) 0.25 (mm)
480-90492-21	4009-28	11/17/2015 01:50	1	S4812.D	ZB-624 (60) 0.25 (mm)
480-90492-22	4009-29S	11/17/2015 02:13	20	S4813.D	ZB-624 (60) 0.25 (mm)
480-90492-23	4009-29I	11/17/2015 02:36	40	S4814.D	ZB-624 (60) 0.25 (mm)
480-90492-24	4009-29D	11/17/2015 02:59	1	S4815.D	ZB-624 (60) 0.25 (mm)
480-90492-25	4009-30	11/17/2015 03:22	1	S4816.D	ZB-624 (60) 0.25 (mm)
480-90492-26	4009-30A	11/17/2015 03:45	1	S4817.D	ZB-624 (60) 0.25 (mm)
480-90492-27	4009-11A	11/17/2015 04:08	1	S4818.D	ZB-624 (60) 0.25 (mm)
480-90492-29	DUP-2	11/17/2015 04:53	20	S4820.D	ZB-624 (60) 0.25 (mm)
480-90492-30	FIELD BLANK	11/17/2015 05:16	1	S4821.D	ZB-624 (60) 0.25 (mm)
480-90492-31	TRIP BLANK	11/17/2015 05:39	1	S4822.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 06:02	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 06:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 06:47	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 07:10	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 07:33	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 07:56	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-90492-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 11/17/2015 09:37Analysis Batch Number: 275377End Date: 11/17/2015 19:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-275377/1		11/17/2015 09:37	1	S4830.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-275377/2		11/17/2015 10:14	1	S4831.D	ZB-624 (60) 0.25 (mm)
CCV 480-275377/3		11/17/2015 10:37	1	S4832.D	ZB-624 (60) 0.25 (mm)
LCS 480-275377/4		11/17/2015 11:01	1	S4833.D	ZB-624 (60) 0.25 (mm)
MB 480-275377/6		11/17/2015 11:47	1	S4835.D	ZB-624 (60) 0.25 (mm)
480-90492-28	DUP-1	11/17/2015 12:10	1	S4836.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 12:33	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 12:56	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 13:18	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 13:41	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 14:04	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 14:27	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 14:50	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 15:13	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 15:36	400		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 15:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 16:22	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 16:44	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 17:07	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 17:30	50		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 17:53	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 18:15	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 18:38	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 19:00	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 19:23	20		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-90492-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 11/17/2015 21:17Analysis Batch Number: 275520End Date: 11/18/2015 07:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-275520/1		11/17/2015 21:17	1	S4860.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-275520/2		11/17/2015 21:41	1	S4861.D	ZB-624 (60) 0.25 (mm)
CCV 480-275520/3		11/17/2015 22:05	1	S4862.D	ZB-624 (60) 0.25 (mm)
LCS 480-275520/4		11/17/2015 22:28	1	S4863.D	ZB-624 (60) 0.25 (mm)
MB 480-275520/6		11/17/2015 23:14	1	S4865.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		11/17/2015 23:59	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 00:22	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 00:45	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 01:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 01:54	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 02:16	25		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 02:39	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 03:02	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 03:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 03:47	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 04:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 04:33	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 04:55	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 05:17	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 05:40	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 06:03	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 06:26	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 06:49	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/18/2015 07:11	1		ZB-624 (60) 0.25 (mm)
480-90492-19 MS	4009-27I MS	11/18/2015 07:34	1	S4886.D	ZB-624 (60) 0.25 (mm)
480-90492-19 MSD	4009-27I MSD	11/18/2015 07:57	1	S4887.D	ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-275144

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Nov 16 2015 9:14AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00048	3MTP_WRK_00050
BFB~480-275144/3		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-275144/4		8260C			5 mL	5 mL	HP5973S		
CCV~480-275144/5		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
MB~480-275144/8		8260C			5 mL	5 mL	HP5973S		
480-90492-A-1	WELL 1-2A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-2	WELL 1-3	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-3	WELL 1-1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-4	4009-9	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-5	4009-10	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-6	4009-11	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-7	4009-12	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-8	4009-13	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-9	4009-13A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-10	4009-14	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-11	4009-15	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-12	4009-16	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-13	4009-16A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-14	4009-18	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-15	4009-19	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-16	4009-21	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-17	4009-22	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-18	4009-27S	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-10~MS4009-14		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-10~MS4009-14 D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
LCS~480-275144/29		8260C			5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-275144

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Nov 16 2015 9:14AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00058	ADD CORP mix_00037	BFB_WRK_00049	GAS CORP mix_00120	S_8260_IS_00125	S_8260_Surr_00116
BFB~480-275144/3		8260C				1 uL			
CCVIS~480-275144/ 4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-275144/5		8260C			12.5 uL			1 uL	1 uL
MB~480-275144/8		8260C						1 uL	1 uL
480-90492-A-1	WELL 1-2A	8260C	T					1 uL	1 uL
480-90492-A-2	WELL 1-3	8260C	T					1 uL	1 uL
480-90492-A-3	WELL 1-1	8260C	T					1 uL	1 uL
480-90492-A-4	4009-9	8260C	T					1 uL	1 uL
480-90492-A-5	4009-10	8260C	T					1 uL	1 uL
480-90492-A-6	4009-11	8260C	T					1 uL	1 uL
480-90492-A-7	4009-12	8260C	T					1 uL	1 uL
480-90492-A-8	4009-13	8260C	T					1 uL	1 uL
480-90492-A-9	4009-13A	8260C	T					1 uL	1 uL
480-90492-A-10	4009-14	8260C	T					1 uL	1 uL
480-90492-A-11	4009-15	8260C	T					1 uL	1 uL
480-90492-A-12	4009-16	8260C	T					1 uL	1 uL
480-90492-A-13	4009-16A	8260C	T					1 uL	1 uL
480-90492-A-14	4009-18	8260C	T					1 uL	1 uL
480-90492-A-15	4009-19	8260C	T					1 uL	1 uL
480-90492-A-16	4009-21	8260C	T					1 uL	1 uL
480-90492-A-17	4009-22	8260C	T					1 uL	1 uL
480-90492-A-18	4009-27S	8260C	T					1 uL	1 uL
480-90492-A-10~MS4009-14		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-90492-A-10~MS4009-14 D		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
LCS~480-275144/29		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-275311

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Nov 16 2015 10:34PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00048	3MTP_WRK_00050
BFB~480-275311/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-275311/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-275311/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
LCS~480-275311/4		8260C			5 mL	5 mL	HP5973S		
MB~480-275311/6		8260C			5 mL	5 mL	HP5973S		
480-90492-A-19	4009-27I	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-19~MS4009-27I		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-19~MS4009-27I D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-20	4009-27D	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-21	4009-28	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-22	4009-29S	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-23	4009-29I	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-24	4009-29D	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-25	4009-30	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-26	4009-30A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-27	4009-11A	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-29	DUP-2	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-30	FIELD BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-A-31	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90584-A-4	QA-W-151104	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90584-A-5	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90678-A-1	GW-FS-OW-041-1104 15	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90678-A-2	GW-FS-OW-051-1104 15	8260C	T		5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-275311

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Nov 16 2015 10:34PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00058	ADD CORP mix_00037	BFB_WRK_00049	GAS CORP mix_00120	S_8260_IS_00125	S_8260_Surr_00116
BFB~480-275311/1		8260C				1 uL			
CCVIS~480-275311/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-275311/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-275311/4		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
MB~480-275311/6		8260C						1 uL	1 uL
480-90492-A-19	4009-27I	8260C	T					1 uL	1 uL
480-90492-A-19~MS4009-27I		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-90492-A-19~MS4009-27I D		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-90492-A-20	4009-27D	8260C	T					1 uL	1 uL
480-90492-A-21	4009-28	8260C	T					1 uL	1 uL
480-90492-A-22	4009-29S	8260C	T					1 uL	1 uL
480-90492-A-23	4009-29I	8260C	T					1 uL	1 uL
480-90492-A-24	4009-29D	8260C	T					1 uL	1 uL
480-90492-A-25	4009-30	8260C	T					1 uL	1 uL
480-90492-A-26	4009-30A	8260C	T					1 uL	1 uL
480-90492-A-27	4009-11A	8260C	T					1 uL	1 uL
480-90492-A-29	DUP-2	8260C	T					1 uL	1 uL
480-90492-A-30	FIELD BLANK	8260C	T					1 uL	1 uL
480-90492-A-31	TRIP BLANK	8260C	T					1 uL	1 uL
480-90584-A-4	QA-W-151104	8260C	T					1 uL	1 uL
480-90584-A-5	TRIP BLANK	8260C	T					1 uL	1 uL
480-90678-A-1	GW-FS-OW-041-1104 15	8260C	T					1 uL	1 uL
480-90678-A-2	GW-FS-OW-051-1104 15	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-275377

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Nov 17 2015 9:37AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00048	3MTP_WRK_00050
BFB~480-275377/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-275377/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-275377/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
LCS~480-275377/4		8260C			5 mL	5 mL	HP5973S		
MB~480-275377/6		8260C			5 mL	5 mL	HP5973S		
480-90492-B-28	DUP-1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90530-A-1	57025	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90530-A-2	57026	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90599-F-1	INFLUENT	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90599-F-2	EFFLUENT	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90599-F-3	CELL 1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90599-F-4	CELL 2	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90599-F-5	CELL 3	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90599-A-6	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-D-1	932128-MW101015	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-D-2	932128-MW100009	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-3	932128-MW100B016	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-3~MS	932128-MW100B016	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-3~MS	932128-MW100B016	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-5	932128-BR002015	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-6	932128-SP007010	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-7	932128-MW005010	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-8	932128-MW02B020	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-9	932128-DP007010	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-10	932128-MW101B026	8260C	T	<2 SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-275377

Method: 8260C

Analyst: O'Brien, Shaun W

Date Open: Nov 17 2015 9:37AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00058	ADD CORP mix_00037	BFB_WRK_00049	GAS CORP mix_00120	S_8260_IS_00125	S_8260_Surr_00116
BFB~480-275377/1		8260C				1 uL			
CCVIS~480-275377/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-275377/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-275377/4		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
MB~480-275377/6		8260C						1 uL	1 uL
480-90492-B-28	DUP-1	8260C	T					1 uL	1 uL
480-90530-A-1	57025	8260C	T					1 uL	1 uL
480-90530-A-2	57026	8260C	T					1 uL	1 uL
480-90599-F-1	INFLUENT	8260C	T					1 uL	1 uL
480-90599-F-2	EFFLUENT	8260C	T					1 uL	1 uL
480-90599-F-3	CELL 1	8260C	T					1 uL	1 uL
480-90599-F-4	CELL 2	8260C	T					1 uL	1 uL
480-90599-F-5	CELL 3	8260C	T					1 uL	1 uL
480-90599-A-6	TRIP BLANK	8260C	T					1 uL	1 uL
480-90604-D-1	932128-MW101015	8260C	T					1 uL	1 uL
480-90604-D-2	932128-MW100009	8260C	T					1 uL	1 uL
480-90604-A-3	932128-MW100B016	8260C	T					1 uL	1 uL
480-90604-A-3~MS	932128-MW100B016	8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-90604-A-3~MS D	932128-MW100B016	8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-90604-A-5	932128-BR002015	8260C	T					1 uL	1 uL
480-90604-A-6	932128-SP007010	8260C	T					1 uL	1 uL
480-90604-A-7	932128-MW005010	8260C	T					1 uL	1 uL
480-90604-A-8	932128-MW02B020	8260C	T					1 uL	1 uL
480-90604-A-9	932128-DP007010	8260C	T					1 uL	1 uL
480-90604-A-10	932128-MW101B026	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-275520

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Nov 17 2015 9:17PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00048	3MTP_WRK_00050
BFB~480-275520/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-275520/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-275520/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
LCS~480-275520/4		8260C			5 mL	5 mL	HP5973S		
MB~480-275520/6		8260C			5 mL	5 mL	HP5973S		
480-90492-B-19~MS4009-27I		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90492-B-19~MS4009-27I D		8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90530-B-2	57026	8260C	T	5 SU	5 mL	5 mL	HP5973S		
480-90604-E-2	932128-MW100009	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-A-4	932128-MW100B016-D	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-B-7	932128-MW005010	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90604-B-8	932128-MW02B020	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90678-A-3	TB-110515-1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90678-A-4	GW-FS-OW-401-R-110515	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-1	MW-1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-2	MW-9	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-3	MW-8	8260C	T	5 SU	5 mL	5 mL	HP5973S		
480-90679-E-4	MW-11S	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-5	MW-11B	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-6	MW-7S	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-7	MW-7B	8260C	T	7 SU	5 mL	5 mL	HP5973S		
480-90679-E-8	MW-12	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-90679-E-9	SW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
LB~480-275152/1-A					5 mL	5 mL	HP5973S		
480-91104-A-1-A					5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-275520

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Nov 17 2015 9:17PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00058	ADD CORP mix_00037	BFB_WRK_00049	GAS CORP mix_00120	S_8260_IS_00125	S_8260_Surr_00116
BFB~480-275520/1		8260C				1 uL			
CCVIS~480-275520/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-275520/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-275520/4		8260C		12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
MB~480-275520/6		8260C						1 uL	1 uL
480-90492-B-19~MS4009-27I		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-90492-B-19~MS4009-27I D		8260C	T	12.5 uL	12.5 uL		12.5 uL	1 uL	1 uL
480-90530-B-2	57026	8260C	T					1 uL	1 uL
480-90604-E-2	932128-MW100009	8260C	T					1 uL	1 uL
480-90604-A-4	932128-MW100B016- D	8260C	T					1 uL	1 uL
480-90604-B-7	932128-MW005010	8260C	T					1 uL	1 uL
480-90604-B-8	932128-MW02B020	8260C	T					1 uL	1 uL
480-90678-A-3	TB-110515-1	8260C	T					1 uL	1 uL
480-90678-A-4	GW-FS-OW-401-R-11 0515	8260C	T					1 uL	1 uL
480-90679-E-1	MW-1	8260C	T					1 uL	1 uL
480-90679-E-2	MW-9	8260C	T					1 uL	1 uL
480-90679-E-3	MW-8	8260C	T					1 uL	1 uL
480-90679-E-4	MW-11S	8260C	T					1 uL	1 uL
480-90679-E-5	MW-11B	8260C	T					1 uL	1 uL
480-90679-E-6	MW-7S	8260C	T					1 uL	1 uL
480-90679-E-7	MW-7B	8260C	T					1 uL	1 uL
480-90679-E-8	MW-12	8260C	T					1 uL	1 uL
480-90679-E-9	SW-2	8260C	T					1 uL	1 uL
LB~480-275152/1-A								1 uL	1 uL
480-91104-A-1-A								1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-275520

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Nov 17 2015 9:17PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00048	3MTP_WRK_00050
480-91104-B-2-A					5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-275520

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Nov 17 2015 9:17PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00058	ADD CORP mix_00037	BFB_WRK_00049	GAS CORP mix_00120	S_8260_IS_00125	S_8260_Surr_00116
480-91104-B-2-A								1 uL	1 uL

Shipping and Receiving Documents

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone (716) 691-2600 Fax (716) 691-7991

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:

Bree Quagliari

Phone:

618) 986-3352

E-Mail:

judy.stone@testamericainc.com

Lab PM:

Stone, Judy L

Carrier Tracking No(s):

480-72815-18519.1

Page:

Page 1 of 4

Job #:

Analysis Requested

Due Date Requested:

TAT Requested (days):

PO #:

Project 00266401.0000

WO #:

Contract D007618

Project #:

48005198

SSOW#:

Field Filtered Sample (Yes or No)

8260C - (MOD) TCL list OLM04.2

Perform MS/MSD (Yes or No)

A

Total Number of Containers

480-90492 Chain of Custody

Special Instructions/Note:

Preservation Codes:

A - HCL

B - NaOH

C - Zn Acetate

D - Nitric Acid

E - NaHSO4

F - MeOH

G - Anchlor

H - Ascorbic Acid

I - Ioe

J - DI Water

K - EDTA

L - EDA

Other:

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)

Chain of Custody Record

Client Information		Lab PMT: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-72815-18519.2	
Client Contact: Ms. Katie Bidwell		Phone: (518) 986-3352		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		Total Number of containers	
City: Clifton Park		PO #:		Field Filtered Sample (Yes or No)		Preservation Codes:	
State, Zip: NY, 12065		Project 00266401.0000		Performance/MSD (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 518-250-7300(Tel)		WO #:		Matrix (W=water, S=solid, O=soil, etc.)		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)	
Email: katie.bidwell@arcadis-us.com		Contract D007618		Sample Type (C=Comp, G=grab)		Special Instructions/Note:	
Project Name: NYSDEC-Standby VESTAL		Project #: 48005198		Sample Time			
Site:		SSOW#:		Sample Date			
Sample Identification		Sample Date		Sample Time		Matrix	
4009-16	11/4/15	0925	G	Water	N		
4009-16A		0930		Water	N		
4009-18		0840		Water	N		
4009-19		0830		Water	N		
4009-21		0820		Water	N		
4009-22		0900		Water	N		
4009-27S		1045		Water	N		
4009-27I		1050		Water	N		
4009-27D		1055		Water	N		
4009-28		0855		Water	N		
4009-29S		1030		Water	N		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:		Return To Client	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months		Special Instructions/QC Requirements:		Return To Client	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: [Signature]		Date: 11/4/15		Time: 15:20		Company: OXARCADIS	
Relinquished by: [Signature]		Date: 11/4/15		Time: 1800		Company: TAAH-B	
Relinquished by: [Signature]		Date: 11/4/15		Time: 0230		Company: TAAH-B	
Custody Seal No.: [Signature]		Custody Seal Intact: ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone (716) 691-2600 Fax (716) 691-7991

Client Information		Lab PM:		Carrier Tracking No(s):		Job #:											
Client Contact: Ms. Katie Bidwell		Stone, Judy L		480-72815-18519.3		Page 3 of 4											
Company: ARCADIS U.S. Inc		E-Mail: judy.stone@testamericainc.com															
Address: 855 Route 146 Suite 210		Due Date Requested:		Analysis Requested		Preservation Codes:											
City: Clifton Park		TAT Requested (days):				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:											
State, Zip: NY, 12065		PO #:				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - TSP Dodecahydrate T - Ascorbic Acid U - Acetone V - MCAA W - ph 4.5 Z - other (specify)											
Phone: 518-250-7300(Tel)		Project #:															
Email: katie.bidwell@arcadis-us.com		Contract #:															
Project Name: NYSDEC-Standby VESTAL		Project #:															
Site: SSOW#:		SSOW#:															
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=soil, O=other)		Field Filtered Sample (Yes or No)		8260C - (MOD) TCL list OLMO4.2		Total Number of Containers		Special Instructions/Note:	
4009-29I		11/4/15	1035	G		Water											
4009-29D			1040			Water											
4009-30			0940			Water											
4009-30A			0945			Water											
4009-11A			1125			Water											
DUP-1						Water											
DUP-2						Water											
MS 4009-14 (MS)			0905			Water											
MS 4009-14 (MSD)			0905			Water											
MS 4009-27 I (MS)			1050			Water											
MS 4009-27 I (MSD)			1050			Water											
Possible Hazard Identification		Date:		Time:		Method of Shipment		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For		Months	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)																	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment		Special Instructions/QC Requirements:		Return To Client		Disposal By Lab		Archive For		Months	
Relinquished by: [Signature]		Date:		Time:		Company		Received by: [Signature]		Date:		Time:		Company		Company	
Relinquished by: [Signature]		Date:		Time:		Company		Received by: [Signature]		Date:		Time:		Company		Company	
Relinquished by: [Signature]		Date:		Time:		Company		Received by: [Signature]		Date:		Time:		Company		Company	
Custody Seals Intact Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:													

THE LEADER IN ENVIRONMENTAL TESTING

11/19/2015

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-90492-1

Login Number: 90492

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

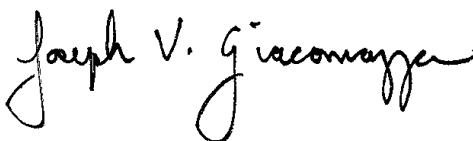
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	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

Job Number: 480-93136-1

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
12/30/2015 11:53 AM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
12/30/2015

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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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Job Narrative
480-93136-1

Receipt

The samples were received on 12/23/2015 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 212432 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

WELL 1-2A (480-93136-1), WELL 1-3 (480-93136-2) and TRIP BLANK 122115 (480-93136-3)

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

VOA Prep

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

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-93136-1	WELL 1-2A	Water	12/21/2015 0940	12/23/2015 1030
480-93136-2	WELL 1-3	Water	12/21/2015 0945	12/23/2015 1030
480-93136-3	TRIP BLANK 122115	Water	12/21/2015 0000	12/23/2015 1030

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

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

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Method	Analyst	Analyst ID
SW846 8260C	Quayle, Rick	RJQ

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-93136-1

Date Sampled: 12/21/2015 0940

Client Matrix: Water

Date Received: 12/23/2015 1030

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 240-212432

Instrument ID: A3UX10

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: UXX4177.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/29/2015 1513

Final Weight/Volume: 5 mL

Prep Date: 12/29/2015 1513

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.44	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.45	1.0
1,1,2-Trichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethane	1.0	U	0.30	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,3-Trimethylbenzene	5.0	U	0.47	5.0
1,2,4-Trichlorobenzene	1.0	U	0.32	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.82	2.0
1,2-Dibromoethane	1.0	U	0.32	1.0
1,2-Dichlorobenzene	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.23	1.0
1,2-Dichloropropane	1.0	U	0.25	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
1,3-Dichlorobenzene	1.0	U	0.19	1.0
1,4-Dichlorobenzene	1.0	U	0.27	1.0
2-Butanone (MEK)	10	U	0.53	10
2-Hexanone	10	U	0.48	10
4-Methyl-2-pentanone (MIBK)	10	U	0.99	10
Acetone	10	U	0.94	10
Benzene	1.0	U	0.35	1.0
Bromodichloromethane	1.0	U	0.29	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.44	1.0
Carbon disulfide	1.0	U	0.38	1.0
Carbon tetrachloride	1.0	U	0.43	1.0
Chlorobenzene	1.0	U	0.25	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.25	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Cyclohexane	1.0	U	0.45	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Dichlorodifluoromethane	1.0	U	0.32	1.0
Ethylbenzene	1.0	U	0.25	1.0
Isopropylbenzene	1.0	U	0.35	1.0
m,p-Xylene	2.0	U	0.24	2.0
Methyl acetate	10	U	2.3	10
Methyl tert-butyl ether	1.0	U	0.20	1.0
Methylcyclohexane	1.0	U	0.43	1.0
Methylene Chloride	1.0	U	0.33	1.0
o-Xylene	1.0	U	0.25	1.0
Styrene	1.0	U	0.45	1.0
Tetrachloroethene	1.0	U	0.31	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-93136-1

Client Matrix: Water

Date Sampled: 12/21/2015 0940

Date Received: 12/23/2015 1030

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 240-212432

Instrument ID: A3UX10

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: UXX4177.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/29/2015 1513

Final Weight/Volume: 5 mL

Prep Date: 12/29/2015 1513

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.23	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.49	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.52	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		78 - 125
4-Bromofluorobenzene (Surr)	99		61 - 120
Dibromofluoromethane (Surr)	99		79 - 120
Toluene-d8 (Surr)	96		80 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-93136-2

Date Sampled: 12/21/2015 0945

Client Matrix: Water

Date Received: 12/23/2015 1030

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 240-212432

Instrument ID: A3UX10

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: UXX4178.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/29/2015 1535

Final Weight/Volume: 5 mL

Prep Date: 12/29/2015 1535

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.44	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.45	1.0
1,1,2-Trichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethane	1.0	U	0.30	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,3-Trimethylbenzene	5.0	U	0.47	5.0
1,2,4-Trichlorobenzene	1.0	U	0.32	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.82	2.0
1,2-Dibromoethane	1.0	U	0.32	1.0
1,2-Dichlorobenzene	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.23	1.0
1,2-Dichloropropane	1.0	U	0.25	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
1,3-Dichlorobenzene	1.0	U	0.19	1.0
1,4-Dichlorobenzene	1.0	U	0.27	1.0
2-Butanone (MEK)	10	U	0.53	10
2-Hexanone	10	U	0.48	10
4-Methyl-2-pentanone (MIBK)	10	U	0.99	10
Acetone	10	U	0.94	10
Benzene	1.0	U	0.35	1.0
Bromodichloromethane	1.0	U	0.29	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.44	1.0
Carbon disulfide	1.0	U	0.38	1.0
Carbon tetrachloride	1.0	U	0.43	1.0
Chlorobenzene	1.0	U	0.25	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.25	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Cyclohexane	1.0	U	0.45	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Dichlorodifluoromethane	1.0	U	0.32	1.0
Ethylbenzene	1.0	U	0.25	1.0
Isopropylbenzene	1.0	U	0.35	1.0
m,p-Xylene	2.0	U	0.24	2.0
Methyl acetate	10	U	2.3	10
Methyl tert-butyl ether	1.0	U	0.20	1.0
Methylcyclohexane	1.0	U	0.43	1.0
Methylene Chloride	1.0	U	0.33	1.0
o-Xylene	1.0	U	0.25	1.0
Styrene	1.0	U	0.45	1.0
Tetrachloroethene	1.0	U	0.31	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-93136-2

Client Matrix: Water

Date Sampled: 12/21/2015 0945

Date Received: 12/23/2015 1030

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 240-212432

Instrument ID: A3UX10

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: UXX4178.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/29/2015 1535

Final Weight/Volume: 5 mL

Prep Date: 12/29/2015 1535

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.23	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.49	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.52	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		78 - 125
4-Bromofluorobenzene (Surr)	97		61 - 120
Dibromofluoromethane (Surr)	99		79 - 120
Toluene-d8 (Surr)	93		80 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Client Sample ID: TRIP BLANK 122115

Lab Sample ID: 480-93136-3

Date Sampled: 12/21/2015 0000

Client Matrix: Water

Date Received: 12/23/2015 1030

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 240-212432

Instrument ID: A3UX10

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: UXX4179.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/29/2015 1557

Final Weight/Volume: 5 mL

Prep Date: 12/29/2015 1557

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.44	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.45	1.0
1,1,2-Trichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethane	1.0	U	0.30	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,3-Trimethylbenzene	5.0	U	0.47	5.0
1,2,4-Trichlorobenzene	1.0	U	0.32	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.82	2.0
1,2-Dibromoethane	1.0	U	0.32	1.0
1,2-Dichlorobenzene	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.23	1.0
1,2-Dichloropropane	1.0	U	0.25	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
1,3-Dichlorobenzene	1.0	U	0.19	1.0
1,4-Dichlorobenzene	1.0	U	0.27	1.0
2-Butanone (MEK)	10	U	0.53	10
2-Hexanone	10	U	0.48	10
4-Methyl-2-pentanone (MIBK)	10	U	0.99	10
Acetone	10	U	0.94	10
Benzene	1.0	U	0.35	1.0
Bromodichloromethane	1.0	U	0.29	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.44	1.0
Carbon disulfide	1.0	U	0.38	1.0
Carbon tetrachloride	1.0	U	0.43	1.0
Chlorobenzene	1.0	U	0.25	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.25	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Cyclohexane	1.0	U	0.45	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Dichlorodifluoromethane	1.0	U	0.32	1.0
Ethylbenzene	1.0	U	0.25	1.0
Isopropylbenzene	1.0	U	0.35	1.0
m,p-Xylene	2.0	U	0.24	2.0
Methyl acetate	10	U	2.3	10
Methyl tert-butyl ether	1.0	U	0.20	1.0
Methylcyclohexane	1.0	U	0.43	1.0
Methylene Chloride	1.0	U	0.33	1.0
o-Xylene	1.0	U	0.25	1.0
Styrene	1.0	U	0.45	1.0
Tetrachloroethene	1.0	U	0.31	1.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Client Sample ID: TRIP BLANK 122115

Lab Sample ID: 480-93136-3

Date Sampled: 12/21/2015 0000

Client Matrix: Water

Date Received: 12/23/2015 1030

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analysis Batch: 240-212432

Instrument ID: A3UX10

Prep Method: 5030C

Prep Batch: N/A

Lab File ID: UXX4179.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Analysis Date: 12/29/2015 1557

Final Weight/Volume: 5 mL

Prep Date: 12/29/2015 1557

Analyte	Result (ug/L)	Qualifier	MDL	RL
Toluene	1.0	U	0.23	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.49	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.52	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		78 - 125
4-Bromofluorobenzene (Surr)	98		61 - 120
Dibromofluoromethane (Surr)	101		79 - 120
Toluene-d8 (Surr)	94		80 - 120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-93136-1	WELL 1-2A	99	103	96	99
480-93136-2	WELL 1-3	99	103	93	97
480-93136-3	TRIP BLANK 122115	101	103	94	98
MB 240-212432/6		100	101	96	100
LCS 240-212432/4		98	96	99	109

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	79-120
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Method Blank - Batch: 240-212432

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 240-212432/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/29/2015 1238
Prep Date: 12/29/2015 1238
Leach Date: N/A

Analysis Batch: 240-212432
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX10
Lab File ID: UXX4170.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.44	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.45	1.0
1,1,2-Trichloroethane	1.0	U	0.24	1.0
1,1-Dichloroethane	1.0	U	0.30	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,3-Trimethylbenzene	5.0	U	0.47	5.0
1,2,4-Trichlorobenzene	1.0	U	0.32	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	2.0	U	0.82	2.0
1,2-Dibromoethane	1.0	U	0.32	1.0
1,2-Dichlorobenzene	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.23	1.0
1,2-Dichloropropane	1.0	U	0.25	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
1,3-Dichlorobenzene	1.0	U	0.19	1.0
1,4-Dichlorobenzene	1.0	U	0.27	1.0
2-Butanone (MEK)	10	U	0.53	10
2-Hexanone	10	U	0.48	10
4-Methyl-2-pentanone (MIBK)	10	U	0.99	10
Acetone	10	U	0.94	10
Benzene	1.0	U	0.35	1.0
Bromodichloromethane	1.0	U	0.29	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.44	1.0
Carbon disulfide	1.0	U	0.38	1.0
Carbon tetrachloride	1.0	U	0.43	1.0
Chlorobenzene	1.0	U	0.25	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.25	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Cyclohexane	1.0	U	0.45	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Dichlorodifluoromethane	1.0	U	0.32	1.0
Ethylbenzene	1.0	U	0.25	1.0
Isopropylbenzene	1.0	U	0.35	1.0
m,p-Xylene	2.0	U	0.24	2.0
Methyl acetate	10	U	2.3	10
Methyl tert-butyl ether	1.0	U	0.20	1.0
Methylcyclohexane	1.0	U	0.43	1.0
Methylene Chloride	0.767	J	0.33	1.0
o-Xylene	1.0	U	0.25	1.0
Styrene	1.0	U	0.45	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Method Blank - Batch: 240-212432

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 240-212432/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/29/2015 1238
Prep Date: 12/29/2015 1238
Leach Date: N/A

Analysis Batch: 240-212432
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX10
Lab File ID: UXX4170.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Tetrachloroethene	1.0	U	0.31	1.0
Toluene	1.0	U	0.23	1.0
trans-1,2-Dichloroethene	1.0	U	0.30	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.22	1.0
Trichlorofluoromethane	1.0	U	0.49	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.52	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	78 - 125
4-Bromofluorobenzene (Surr)	100	61 - 120
Dibromofluoromethane (Surr)	100	79 - 120
Toluene-d8 (Surr)	96	80 - 120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Lab Control Sample - Batch: 240-212432

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 240-212432/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/29/2015 1154
Prep Date: 12/29/2015 1154
Leach Date: N/A

Analysis Batch: 240-212432
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX10
Lab File ID: UXX4168.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	10.0	10.2	102	77 - 123	
1,1,2,2-Tetrachloroethane	10.0	8.52	85	71 - 123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.88	89	67 - 138	
1,1,2-Trichloroethane	10.0	9.26	93	80 - 120	
1,1-Dichloroethane	10.0	9.70	97	79 - 125	
1,1-Dichloroethene	10.0	9.06	91	76 - 124	
1,2,4-Trichlorobenzene	10.0	9.11	91	61 - 120	
1,2,4-Trimethylbenzene	10.0	9.97	100	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	9.65	97	50 - 132	
1,2-Dibromoethane	10.0	9.50	95	80 - 120	
1,2-Dichlorobenzene	10.0	9.67	97	79 - 120	
1,2-Dichloroethane	10.0	9.38	94	80 - 120	
1,2-Dichloropropane	10.0	9.85	99	78 - 124	
1,3,5-Trimethylbenzene	10.0	9.88	99	77 - 120	
1,3-Dichlorobenzene	10.0	9.35	94	79 - 120	
1,4-Dichlorobenzene	10.0	9.37	94	79 - 120	
2-Butanone (MEK)	20.0	17.1	86	56 - 138	
2-Hexanone	20.0	18.2	91	55 - 141	
4-Methyl-2-pentanone (MIBK)	20.0	18.3	91	64 - 135	
Acetone	20.0	16.9	85	34 - 148	
Benzene	10.0	9.65	97	80 - 120	
Bromodichloromethane	10.0	10.1	101	80 - 120	
Bromoform	10.0	9.18	92	56 - 122	
Bromomethane	10.0	5.91	59	38 - 132	
Carbon disulfide	10.0	9.72	97	65 - 144	
Carbon tetrachloride	10.0	10.8	108	77 - 131	
Chlorobenzene	10.0	9.45	95	80 - 120	
Chloroethane	10.0	6.56	66	36 - 126	
Chloroform	10.0	9.60	96	80 - 120	
Chloromethane	10.0	9.06	91	48 - 133	
cis-1,2-Dichloroethene	10.0	9.75	98	79 - 120	
cis-1,3-Dichloropropene	10.0	10.7	107	74 - 126	
Cyclohexane	10.0	9.51	95	60 - 140	
Dibromochloromethane	10.0	10.2	102	74 - 120	
Dichlorodifluoromethane	10.0	5.83	58	23 - 136	
Ethylbenzene	10.0	9.95	99	80 - 120	
Isopropylbenzene	10.0	10.6	106	77 - 120	
m,p-Xylene	10.0	9.92	99	80 - 120	
Methyl acetate	50.0	45.6	91	67 - 131	
Methyl tert-butyl ether	10.0	9.75	97	69 - 121	
Methylcyclohexane	10.0	9.73	97	61 - 134	
Methylene Chloride	10.0	11.0	110	77 - 129	
o-Xylene	10.0	10.2	102	80 - 120	
Styrene	10.0	9.69	97	76 - 122	
Tetrachloroethene	10.0	9.31	93	78 - 121	
Toluene	10.0	9.51	95	80 - 120	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Lab Control Sample - Batch: 240-212432

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 240-212432/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 12/29/2015 1154
Prep Date: 12/29/2015 1154
Leach Date: N/A

Analysis Batch: 240-212432
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX10
Lab File ID: UXX4168.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
trans-1,2-Dichloroethene	10.0	9.80	98	80 - 124	
trans-1,3-Dichloropropene	10.0	9.84	98	75 - 131	
Trichloroethene	10.0	9.78	98	80 - 121	
Trichlorofluoromethane	10.0	9.18	92	61 - 133	
Vinyl chloride	10.0	8.22	82	52 - 121	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	78 - 125
4-Bromofluorobenzene (Surr)	109	61 - 120
Dibromofluoromethane (Surr)	98	79 - 120
Toluene-d8 (Surr)	99	80 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-212432					
LCS 240-212432/4	Lab Control Sample	T	Water	8260C	
MB 240-212432/6	Method Blank	T	Water	8260C	
480-93136-1	WELL 1-2A	T	Water	8260C	
480-93136-2	WELL 1-3	T	Water	8260C	
480-93136-3	TRIP BLANK 122115	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Laboratory Chronicle

Lab ID: 480-93136-1

Client ID: WELL 1-2A

Sample Date/Time: 12/21/2015 09:40 Received Date/Time: 12/23/2015 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-93136-B-1		240-212432		12/29/2015 15:13	1	TAL CAN	RJQ
A:8260C	480-93136-B-1		240-212432		12/29/2015 15:13	1	TAL CAN	RJQ

Lab ID: 480-93136-2

Client ID: WELL 1-3

Sample Date/Time: 12/21/2015 09:45 Received Date/Time: 12/23/2015 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-93136-B-2		240-212432		12/29/2015 15:35	1	TAL CAN	RJQ
A:8260C	480-93136-B-2		240-212432		12/29/2015 15:35	1	TAL CAN	RJQ

Lab ID: 480-93136-3

Client ID: TRIP BLANK 122115

Sample Date/Time: 12/21/2015 00:00 Received Date/Time: 12/23/2015 10:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-93136-B-3		240-212432		12/29/2015 15:57	1	TAL CAN	RJQ
A:8260C	480-93136-B-3		240-212432		12/29/2015 15:57	1	TAL CAN	RJQ

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-212432/6		240-212432		12/29/2015 12:38	1	TAL CAN	RJQ
A:8260C	MB 240-212432/6		240-212432		12/29/2015 12:38	1	TAL CAN	RJQ

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-212432/4		240-212432		12/29/2015 11:54	1	TAL CAN	RJQ
A:8260C	LCS 240-212432/4		240-212432		12/29/2015 11:54	1	TAL CAN	RJQ

Lab References:

TAL CAN = TestAmerica Canton

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WELL 1-2A	480-93136-1	99	103	96	99
WELL 1-3	480-93136-2	99	103	93	97
TRIP BLANK 122115	480-93136-3	101	103	94	98
	MB 240-212432/6	100	101	96	100
	LCS 240-212432/4	98	96	99	109

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

QC LIMITS
79-120
78-125
80-120
61-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXX4168.D
 Lab ID: LCS 240-212432/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	10.2	102	77-123	
1,1,2,2-Tetrachloroethane	10.0	8.52	85	71-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.88	89	67-138	
1,1,2-Trichloroethane	10.0	9.26	93	80-120	
1,1-Dichloroethane	10.0	9.70	97	79-125	
1,1-Dichloroethene	10.0	9.06	91	76-124	
1,2,4-Trichlorobenzene	10.0	9.11	91	61-120	
1,2,4-Trimethylbenzene	10.0	9.97	100	76-120	
1,2-Dibromo-3-Chloropropane	10.0	9.65	97	50-132	
1,2-Dibromoethane	10.0	9.50	95	80-120	
1,2-Dichlorobenzene	10.0	9.67	97	79-120	
1,2-Dichloroethane	10.0	9.38	94	80-120	
1,2-Dichloropropane	10.0	9.85	99	78-124	
1,3,5-Trimethylbenzene	10.0	9.88	99	77-120	
1,3-Dichlorobenzene	10.0	9.35	94	79-120	
1,4-Dichlorobenzene	10.0	9.37	94	79-120	
2-Butanone (MEK)	20.0	17.1	86	56-138	
2-Hexanone	20.0	18.2	91	55-141	
4-Methyl-2-pentanone (MIBK)	20.0	18.3	91	64-135	
Acetone	20.0	16.9	85	34-148	
Benzene	10.0	9.65	97	80-120	
Bromodichloromethane	10.0	10.1	101	80-120	
Bromoform	10.0	9.18	92	56-122	
Bromomethane	10.0	5.91	59	38-132	
Carbon disulfide	10.0	9.72	97	65-144	
Carbon tetrachloride	10.0	10.8	108	77-131	
Chlorobenzene	10.0	9.45	95	80-120	
Chloroethane	10.0	6.56	66	36-126	
Chloroform	10.0	9.60	96	80-120	
Chloromethane	10.0	9.06	91	48-133	
cis-1,2-Dichloroethene	10.0	9.75	98	79-120	
cis-1,3-Dichloropropene	10.0	10.7	107	74-126	
Cyclohexane	10.0	9.51	95	60-140	
Dibromochloromethane	10.0	10.2	102	74-120	
Dichlorodifluoromethane	10.0	5.83	58	23-136	
Ethylbenzene	10.0	9.95	99	80-120	
Isopropylbenzene	10.0	10.6	106	77-120	
m,p-Xylene	10.0	9.92	99	80-120	
Methyl acetate	50.0	45.6	91	67-131	
Methyl tert-butyl ether	10.0	9.75	97	69-121	
Methylcyclohexane	10.0	9.73	97	61-134	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXX4168.D
 Lab ID: LCS 240-212432/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	10.0	11.0	110	77-129	
o-Xylene	10.0	10.2	102	80-120	
Styrene	10.0	9.69	97	76-122	
Tetrachloroethene	10.0	9.31	93	78-121	
Toluene	10.0	9.51	95	80-120	
trans-1,2-Dichloroethene	10.0	9.80	98	80-124	
trans-1,3-Dichloropropene	10.0	9.84	98	75-131	
Trichloroethene	10.0	9.78	98	80-121	
Trichlorofluoromethane	10.0	9.18	92	61-133	
Vinyl chloride	10.0	8.22	82	52-121	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 480-93136-1
SDG No.: _____
Lab File ID: UXX4170.D Lab Sample ID: MB 240-212432/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX10 Date Analyzed: 12/29/2015 12:38
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-212432/4	UXX4168.D	12/29/2015 11:54
WELL 1-2A	480-93136-1	UXX4177.D	12/29/2015 15:13
WELL 1-3	480-93136-2	UXX4178.D	12/29/2015 15:35
TRIP BLANK 122115	480-93136-3	UXX4179.D	12/29/2015 15:57

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Lab File ID: BFB7326.D BFB Injection Date: 11/19/2015
 Instrument ID: A3UX10 BFB Injection Time: 16:56
 Analysis Batch No.: 207666

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.9
75	30.0 - 60.0 % of mass 95	58.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.6 (0.5) 1
174	50.0 - 120.00 % of mass 95	119.2
175	5.0 - 9.0 % of mass 174	8.5 (7.1) 1
176	95.0 - 101.0 % of mass 174	114.0 (95.7) 1
177	5.0 - 9.0 % of mass 176	7.0 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STDA9 240-207666/9	UXX3191.D	11/19/2015	20:00
	STDA9 240-207666/10	UXX3192.D	11/19/2015	20:22
	STDA9 240-207666/11	UXX3193.D	11/19/2015	20:44
	STDA9 240-207666/12	UXX3194.D	11/19/2015	21:06
	STDA9 240-207666/13	UXX3195.D	11/19/2015	21:28
	STDA9 240-207666/14	UXX3196.D	11/19/2015	21:50
	ICV 240-207666/15	UXX3197.D	11/19/2015	22:12

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Lab File ID: BFB7354.D BFB Injection Date: 12/10/2015
 Instrument ID: A3UX10 BFB Injection Time: 13:33
 Analysis Batch No.: 210268

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.2
75	30.0 - 60.0 % of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.3 (0.2) 1
174	50.0 - 120.00 % of mass 95	116.2
175	5.0 - 9.0 % of mass 174	8.6 (7.4) 1
176	95.0 - 101.0 % of mass 174	110.7 (95.3) 1
177	5.0 - 9.0 % of mass 176	7.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-210268/2	UXX3720.D	12/10/2015	13:55
	STD8260 240-210268/3	UXX3721.D	12/10/2015	14:17
	STD8260 240-210268/4	UXX3722.D	12/10/2015	14:38
	STD8260 240-210268/5	UXX3723.D	12/10/2015	15:00
	STD8260 240-210268/6	UXX3724.D	12/10/2015	15:23
	STD8260 240-210268/7	UXX3725.D	12/10/2015	15:45

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Lab File ID: BFB7374.D BFB Injection Date: 12/29/2015
 Instrument ID: A3UX10 BFB Injection Time: 09:58
 Analysis Batch No.: 212432

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.0
75	30.0 - 60.0 % of mass 95	44.5
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	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	110.0
175	5.0 - 9.0 % of mass 174	7.8 (7.0) 1
176	95.0 - 101.0 % of mass 174	107.9 (98.1) 1
177	5.0 - 9.0 % of mass 176	7.0 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-212432/2	UXX4166.D	12/29/2015	11:09
	CCV 240-212432/3	UXX4167.D	12/29/2015	11:31
	LCS 240-212432/4	UXX4168.D	12/29/2015	11:54
	MB 240-212432/6	UXX4170.D	12/29/2015	12:38
WELL 1-2A	480-93136-1	UXX4177.D	12/29/2015	15:13
WELL 1-3	480-93136-2	UXX4178.D	12/29/2015	15:35
TRIP BLANK 122115	480-93136-3	UXX4179.D	12/29/2015	15:57

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Sample No.: CCVIS 240-212432/2 Date Analyzed: 12/29/2015 11:09
 Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXX4166.D Heated Purge: (Y/N) N
 Calibration ID: 31994

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1748311	5.54	1387863	8.23	843239	10.46
UPPER LIMIT		3496622	6.04	2775726	8.73	1686478	10.96
LOWER LIMIT		874156	5.04	693932	7.73	421620	9.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-212432/3		1737038	5.54	1427152	8.23	754974	10.47
LCS 240-212432/4		1741344	5.54	1391034	8.23	840590	10.47
MB 240-212432/6		1559255	5.55	1275931	8.23	702194	10.47
480-93136-1	WELL 1-2A	1534906	5.54	1219406	8.23	666062	10.47
480-93136-2	WELL 1-3	1498663	5.55	1228135	8.23	682480	10.47
480-93136-3	TRIP BLANK 122115	1478635	5.54	1219670	8.23	661617	10.47

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

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

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>480-93136-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL 1-2A</u>	Lab Sample ID: <u>480-93136-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXX4177.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>12/21/2015 09:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/29/2015 15:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>212432</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	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Client Sample ID: WELL 1-2A Lab Sample ID: 480-93136-1
 Matrix: Water Lab File ID: UXX4177.D
 Analysis Method: 8260C Date Collected: 12/21/2015 09:40
 Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 15:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
179601-23-1	m,p-Xylene	2.0	U	2.0	0.24
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		78-125
460-00-4	4-Bromofluorobenzene (Surr)	99		61-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4177.D
 Lims ID: 480-93136-B-1 Lab Sample ID: 240-93136-1
 Client ID: WELL 1-2A
 Sample Type: Client
 Inject. Date: 29-Dec-2015 15:13:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-013
 Operator ID: 1904 Instrument ID: A3UX10
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 30-Dec-2015 07:39:53 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK017

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.542	0.000	100	1534906	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.228	0.000	82	1219406	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.465	0.000	92	666062	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.974	4.974	0.000	95	357815	9.85	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.270	5.258	0.012	0	423830	10.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	92	1428688	9.63	
\$ 7 4-Bromofluorobenzene (Surr	95	9.341	9.340	0.001	96	505543	9.89	
9 Dichlorodifluoromethane	85		1.590				ND	
10 Chloromethane	50		1.755				ND	
11 Vinyl chloride	62		1.862				ND	
13 Bromomethane	94		2.193				ND	
14 Chloroethane	64		2.300				ND	
16 Trichlorofluoromethane	101		2.513				ND	
19 1,1-Dichloroethene	96		3.010				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.033				ND	
21 Acetone	43		3.069				ND	
24 Carbon disulfide	76		3.211				ND	
27 Methyl acetate	43		3.353				ND	
28 Methylene Chloride	84		3.448				ND	
32 Methyl tert-butyl ether	73		3.684				ND	
30 trans-1,2-Dichloroethene	96		3.696				ND	
34 1,1-Dichloroethane	63		4.063				ND	
40 cis-1,2-Dichloroethene	96		4.560				ND	
41 2-Butanone (MEK)	43		4.584				ND	
47 Chloroform	83		4.832				ND	
48 1,1,1-Trichloroethane	97		4.986				ND	
49 Cyclohexane	56		5.033				ND	
51 Carbon tetrachloride	117		5.128				ND	
53 Benzene	78		5.305				ND	
54 1,2-Dichloroethane	62		5.329				ND	
58 Trichloroethene	130		5.850				ND	
60 Methylcyclohexane	83		6.015				ND	
61 1,2-Dichloropropane	63		6.051				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
65 Dichlorobromomethane	83		6.287				ND	
68 cis-1,3-Dichloropropene	75		6.678				ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.808				ND	
70 Toluene	91		6.974				ND	
71 trans-1,3-Dichloropropene	75		7.163				ND	
73 1,1,2-Trichloroethane	97		7.341				ND	
74 Tetrachloroethene	164		7.459				ND	
76 2-Hexanone	43		7.554				ND	
78 Chlorodibromomethane	129		7.696				ND	
80 Ethylene Dibromide	107		7.814				ND	
82 Chlorobenzene	112		8.252				ND	
84 Ethylbenzene	106		8.346				ND	
85 m-Xylene & p-Xylene	106		8.453				ND	
86 o-Xylene	106		8.831				ND	
87 Styrene	104		8.843				ND	
88 Bromoform	173		9.044				ND	
89 Isopropylbenzene	105		9.175				ND	
92 1,1,2,2-Tetrachloroethane	83		9.470				ND	
98 1,3,5-Trimethylbenzene	105		9.743				ND	
102 1,2,4-Trimethylbenzene	105		10.109				ND	
104 1,3-Dichlorobenzene	146		10.405				ND	
106 1,4-Dichlorobenzene	146		10.488				ND	
107 1,2,3-Trimethylbenzene	105		10.536				ND	
110 1,2-Dichlorobenzene	146		10.867				ND	
111 1,2-Dibromo-3-Chloropropan	157		11.648				ND	
113 1,2,4-Trichlorobenzene	180		12.464				ND	
S 130 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00052	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00067	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00060	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4177.D

Injection Date: 29-Dec-2015 15:13:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: 480-93136-B-1

Lab Sample ID: 240-93136-1

Worklist Smp#: 13

Client ID: WELL 1-2A

Purge Vol: 5.000 mL

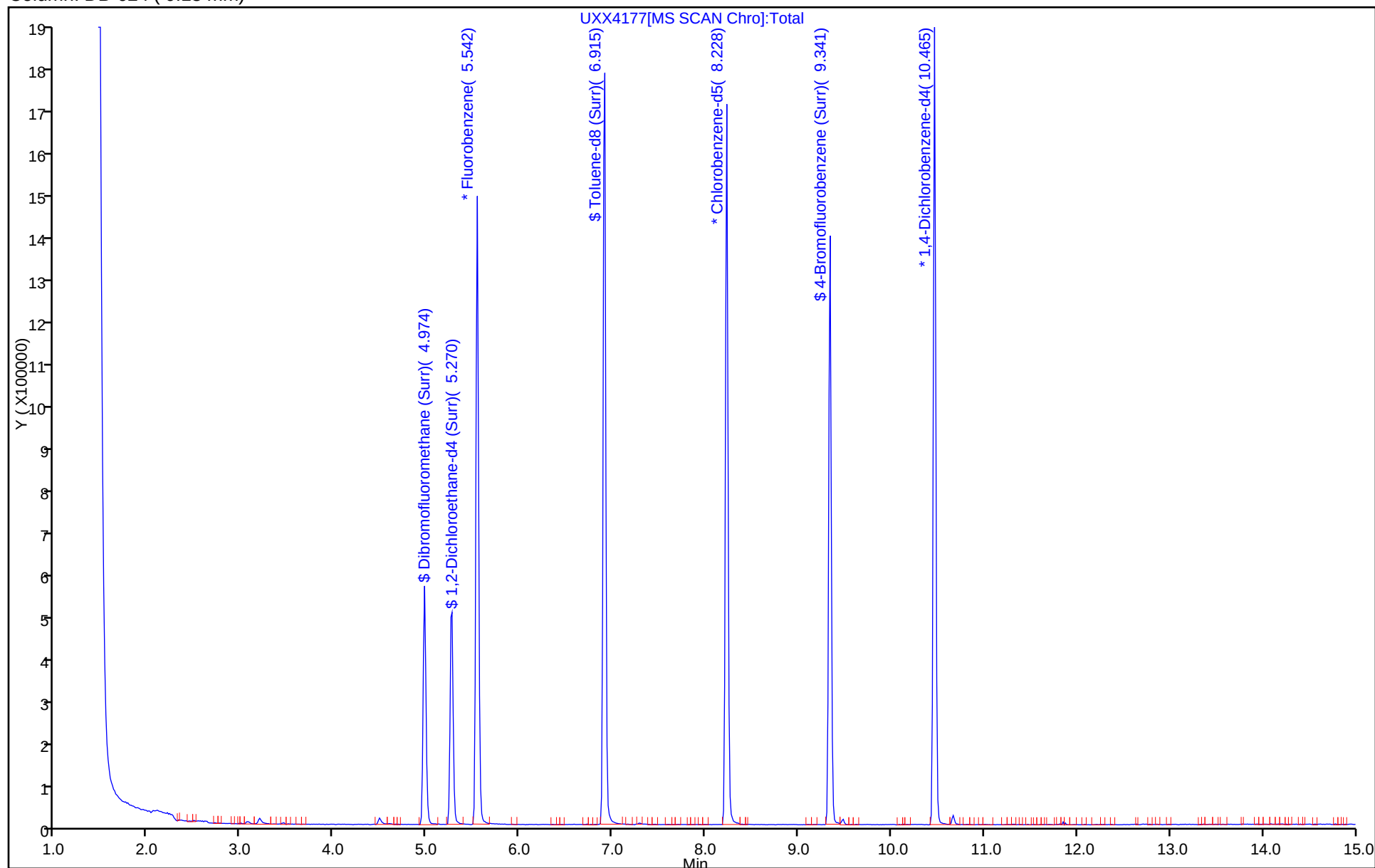
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>480-93136-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL 1-3</u>	Lab Sample ID: <u>480-93136-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXX4178.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>12/21/2015 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/29/2015 15:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>212432</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	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>480-93136-1</u>
SDG No.: _____	
Client Sample ID: <u>WELL 1-3</u>	Lab Sample ID: <u>480-93136-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXX4178.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>12/21/2015 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/29/2015 15:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>212432</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
179601-23-1	m,p-Xylene	2.0	U	2.0	0.24
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		78-125
460-00-4	4-Bromofluorobenzene (Surr)	97		61-120
1868-53-7	Dibromofluoromethane (Surr)	99		79-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4178.D
 Lims ID: 480-93136-B-2 Lab Sample ID: 240-93136-2
 Client ID: WELL 1-3
 Sample Type: Client
 Inject. Date: 29-Dec-2015 15:35:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-014
 Operator ID: 1904 Instrument ID: A3UX10
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 30-Dec-2015 07:39:53 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK017

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.545	5.542	0.003	99	1498663	10.0	
* 2 Chlorobenzene-d5	117	8.231	8.228	0.003	82	1228135	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.467	10.465	0.002	92	682480	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.977	4.974	0.003	95	351276	9.91	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.261	5.258	0.003	0	410588	10.3	
\$ 6 Toluene-d8 (Surr)	98	6.906	6.915	-0.009	92	1390204	9.30	
\$ 7 4-Bromofluorobenzene (Surr	95	9.343	9.340	0.003	96	498519	9.69	
9 Dichlorodifluoromethane	85		1.590				ND	
10 Chloromethane	50		1.755				ND	
11 Vinyl chloride	62		1.862				ND	
13 Bromomethane	94		2.193				ND	
14 Chloroethane	64		2.300				ND	
16 Trichlorofluoromethane	101		2.513				ND	
19 1,1-Dichloroethene	96		3.010				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.033				ND	
21 Acetone	43		3.069				ND	
24 Carbon disulfide	76		3.211				ND	
27 Methyl acetate	43		3.353				ND	
28 Methylene Chloride	84		3.448				ND	
32 Methyl tert-butyl ether	73		3.684				ND	
30 trans-1,2-Dichloroethene	96		3.696				ND	
34 1,1-Dichloroethane	63		4.063				ND	
40 cis-1,2-Dichloroethene	96		4.560				ND	
41 2-Butanone (MEK)	43		4.584				ND	
47 Chloroform	83		4.832				ND	
48 1,1,1-Trichloroethane	97		4.986				ND	
49 Cyclohexane	56		5.033				ND	
51 Carbon tetrachloride	117		5.128				ND	
53 Benzene	78		5.305				ND	
54 1,2-Dichloroethane	62		5.329				ND	
58 Trichloroethene	130		5.850				ND	
60 Methylcyclohexane	83		6.015				ND	
61 1,2-Dichloropropane	63		6.051				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
65 Dichlorobromomethane	83		6.287				ND	
68 cis-1,3-Dichloropropene	75		6.678				ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.808				ND	
70 Toluene	91		6.974				ND	
71 trans-1,3-Dichloropropene	75		7.163				ND	
73 1,1,2-Trichloroethane	97		7.341				ND	
74 Tetrachloroethene	164		7.459				ND	
76 2-Hexanone	43		7.554				ND	
78 Chlorodibromomethane	129		7.696				ND	
80 Ethylene Dibromide	107		7.814				ND	
82 Chlorobenzene	112		8.252				ND	
84 Ethylbenzene	106		8.346				ND	
85 m-Xylene & p-Xylene	106		8.453				ND	
86 o-Xylene	106		8.831				ND	
87 Styrene	104		8.843				ND	
88 Bromoform	173		9.044				ND	
89 Isopropylbenzene	105		9.175				ND	
92 1,1,2,2-Tetrachloroethane	83		9.470				ND	
98 1,3,5-Trimethylbenzene	105		9.743				ND	
102 1,2,4-Trimethylbenzene	105		10.109				ND	
104 1,3-Dichlorobenzene	146		10.405				ND	
106 1,4-Dichlorobenzene	146		10.488				ND	
107 1,2,3-Trimethylbenzene	105		10.536				ND	
110 1,2-Dichlorobenzene	146		10.867				ND	
111 1,2-Dibromo-3-Chloropropan	157		11.648				ND	
113 1,2,4-Trichlorobenzene	180		12.464				ND	
S 130 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00052	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00067	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00060	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4178.D

Injection Date: 29-Dec-2015 15:35:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: 480-93136-B-2

Lab Sample ID: 240-93136-2

Worklist Smp#: 14

Client ID: WELL 1-3

Purge Vol: 5.000 mL

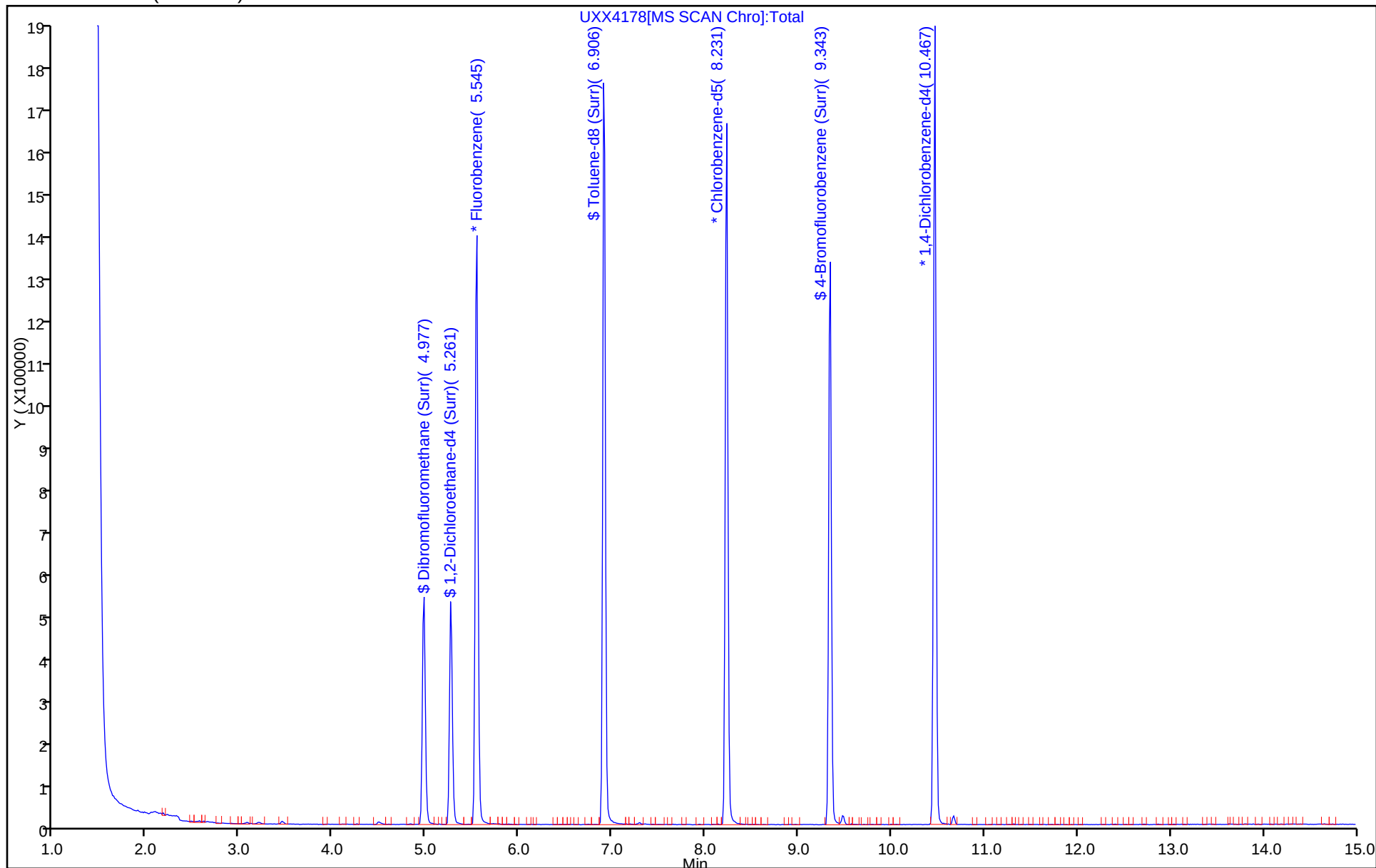
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Client Sample ID: TRIP BLANK 122115 Lab Sample ID: 480-93136-3

Matrix: Water Lab File ID: UXX4179.D

Analysis Method: 8260C Date Collected: 12/21/2015 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 15:57

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Client Sample ID: TRIP BLANK 122115 Lab Sample ID: 480-93136-3

Matrix: Water Lab File ID: UXX4179.D

Analysis Method: 8260C Date Collected: 12/21/2015 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 15:57

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
179601-23-1	m,p-Xylene	2.0	U	2.0	0.24
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		78-125
460-00-4	4-Bromofluorobenzene (Surr)	98		61-120
1868-53-7	Dibromofluoromethane (Surr)	101		79-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4179.D
 Lims ID: 480-93136-B-3 Lab Sample ID: 240-93136-3
 Client ID: TRIP BLANK 122115
 Sample Type: Client
 Inject. Date: 29-Dec-2015 15:57:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-015
 Operator ID: 1904 Instrument ID: A3UX10
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 30-Dec-2015 07:39:53 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK017

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.542	0.000	100	1478635	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.228	0.000	82	1219670	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.465	0.000	92	661617	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.974	4.974	0.000	95	351873	10.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.258	5.258	0.000	0	408767	10.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	92	1389626	9.36	
\$ 7 4-Bromofluorobenzene (Surr	95	9.341	9.340	0.001	96	502811	9.84	
9 Dichlorodifluoromethane	85		1.590				ND	
10 Chloromethane	50		1.755				ND	
11 Vinyl chloride	62		1.862				ND	
13 Bromomethane	94		2.193				ND	
14 Chloroethane	64		2.300				ND	
16 Trichlorofluoromethane	101		2.513				ND	
19 1,1-Dichloroethene	96		3.010				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.033				ND	
21 Acetone	43		3.069				ND	
24 Carbon disulfide	76		3.211				ND	
27 Methyl acetate	43		3.353				ND	
28 Methylene Chloride	84		3.448				ND	
32 Methyl tert-butyl ether	73		3.684				ND	
30 trans-1,2-Dichloroethene	96		3.696				ND	
34 1,1-Dichloroethane	63		4.063				ND	
40 cis-1,2-Dichloroethene	96		4.560				ND	
41 2-Butanone (MEK)	43		4.584				ND	
47 Chloroform	83		4.832				ND	
48 1,1,1-Trichloroethane	97		4.986				ND	
49 Cyclohexane	56		5.033				ND	
51 Carbon tetrachloride	117		5.128				ND	
53 Benzene	78		5.305				ND	
54 1,2-Dichloroethane	62		5.329				ND	
58 Trichloroethene	130		5.850				ND	
60 Methylcyclohexane	83		6.015				ND	
61 1,2-Dichloropropane	63		6.051				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
65 Dichlorobromomethane	83		6.287				ND	
68 cis-1,3-Dichloropropene	75		6.678				ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.808				ND	
70 Toluene	91		6.974				ND	
71 trans-1,3-Dichloropropene	75		7.163				ND	
73 1,1,2-Trichloroethane	97		7.341				ND	
74 Tetrachloroethene	164		7.459				ND	
76 2-Hexanone	43		7.554				ND	
78 Chlorodibromomethane	129		7.696				ND	
80 Ethylene Dibromide	107		7.814				ND	
82 Chlorobenzene	112		8.252				ND	
84 Ethylbenzene	106		8.346				ND	
85 m-Xylene & p-Xylene	106		8.453				ND	
86 o-Xylene	106		8.831				ND	
87 Styrene	104		8.843				ND	
88 Bromoform	173		9.044				ND	
89 Isopropylbenzene	105		9.175				ND	
92 1,1,2,2-Tetrachloroethane	83		9.470				ND	
98 1,3,5-Trimethylbenzene	105		9.743				ND	
102 1,2,4-Trimethylbenzene	105		10.109				ND	
104 1,3-Dichlorobenzene	146		10.405				ND	
106 1,4-Dichlorobenzene	146		10.488				ND	
107 1,2,3-Trimethylbenzene	105		10.536				ND	
110 1,2-Dichlorobenzene	146		10.867				ND	
111 1,2-Dibromo-3-Chloropropan	157		11.648				ND	
113 1,2,4-Trichlorobenzene	180		12.464				ND	
S 130 Xylenes, Total	106		16.530				ND	

Reagents:

VM50IS_00052	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00067	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00060	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4179.D

Injection Date: 29-Dec-2015 15:57:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: 480-93136-B-3

Lab Sample ID: 240-93136-3

Worklist Smp#: 15

Client ID: TRIP BLANK 122115

Purge Vol: 5.000 mL

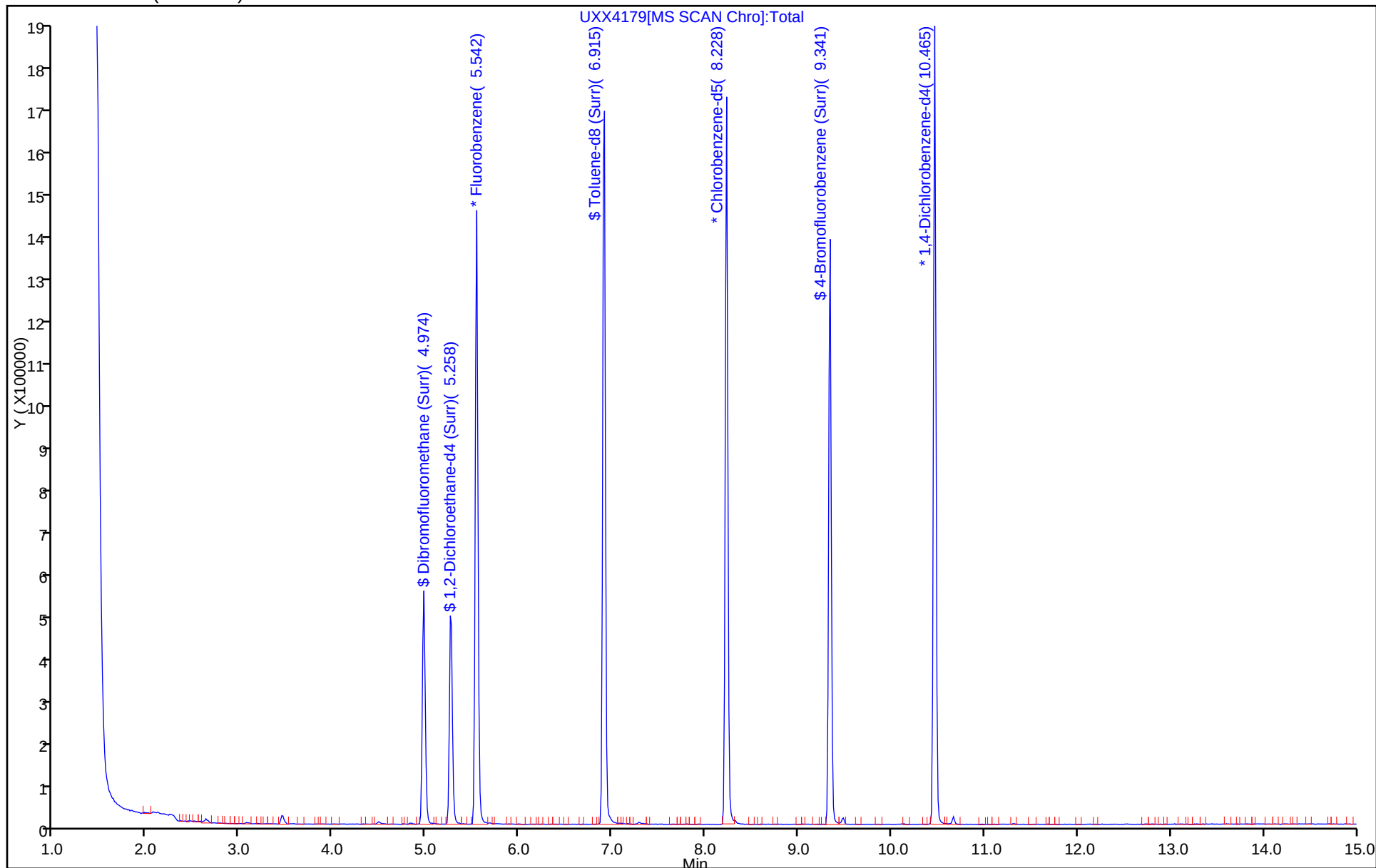
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 207666

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2015 20:00 Calibration End Date: 11/19/2015 21:50 Calibration ID: 31680

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-207666/14	UXX3196.D
Level 2	STDA9 240-207666/13	UXX3195.D
Level 3	STDA9 240-207666/12	UXX3194.D
Level 4	STDA9 240-207666/11	UXX3193.D
Level 5	STDA9 240-207666/10	UXX3192.D
Level 6	STDA9 240-207666/9	UXX3191.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 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0268 0.0288	0.0347	0.0271	0.0314	0.0236	Ave		0.0287				13.6		15.0			
Isopropyl ether	0.2160 0.2110	0.1763	0.1904	0.1906	0.1946	Ave		0.1965				7.5		15.0			
2-Chloro-1,3-butadiene	0.3026 0.3313	0.2929	0.3002	0.3067	0.3240	Ave		0.3096				4.8		15.0			
Tert-butyl ethyl ether	0.5563 0.6512	0.5248	0.5483	0.5485	0.5773	Ave		0.5678				7.8		15.0			
Ethyl acetate	0.1997 0.1937	0.1715	0.1777	0.1800	0.1836	Ave		0.1844				5.7		15.0			
Propionitrile	0.0355 0.0329	0.0324	0.0331	0.0318	0.0320	Ave		0.0329				4.1		15.0			
Methacrylonitrile	0.1392 0.1769	0.1375	0.1401	0.1449	0.1501	Ave		0.1481				10.0		15.0			
Tert-amyl methyl ether	0.4909 0.6303	0.4866	0.4867	0.5142	0.5498	Ave		0.5264				10.7		15.0			
n-Butanol	0.0053 0.0065	0.0071	0.0059	0.0063	0.0059	Ave		0.0062				10.2		15.0			
Ethyl acrylate	0.2334 0.2578	0.1989	0.2294	0.2144	0.2401	Ave		0.2290				8.9		15.0			
Methyl methacrylate	0.1574 0.2052	0.1703	0.1700	0.1686	0.1882	Ave		0.1766				9.7		15.0			
2-Nitropropane	0.0340 0.0415	0.0313	0.0315	0.0321	0.0355	Ave		0.0343				11.4		15.0			
n-Butyl acetate	0.1194 0.1604	0.1159	0.1195	0.1276	0.1398	Ave		0.1304				13.1		15.0			
1-Chlorohexane	0.2974 0.3742	0.2934	0.3182	0.3270	0.3550	Ave		0.3275				9.7		15.0			
Cyclohexanone	0.0116 0.0130	0.0128	0.0125	0.0145	0.0118	Ave		0.0127				8.3		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 207666

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2015 20:00 Calibration End Date: 11/19/2015 21:50 Calibration ID: 31680

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 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	1.7857 2.6164	1.8376	1.9798	2.0369	2.2473	Ave		2.0840				14.8		15.0			
1,3,5-Trichlorobenzene	0.7836 0.9275	0.9531	0.8200	0.8517	0.8040	Ave		0.8567				8.1		15.0			
2-Methylnaphthalene	0.9302 0.7844	1.0360	1.0120	1.1042	1.2055	Ave		1.0120				14.3		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 207666

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2015 20:00 Calibration End Date: 11/19/2015 21:50 Calibration ID: 31680

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-207666/14	UXX3196.D
Level 2	STDA9 240-207666/13	UXX3195.D
Level 3	STDA9 240-207666/12	UXX3194.D
Level 4	STDA9 240-207666/11	UXX3193.D
Level 5	STDA9 240-207666/10	UXX3192.D
Level 6	STDA9 240-207666/9	UXX3191.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	32494 1617139	84926	169465	405582	622905	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	26225 1183206	43142	119142	246210	514451	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	36738 1857794	71666	187870	396311	856599	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	67532 3651558	128389	343122	708721	1526315	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	48489 2172162	83919	222347	465252	970578	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	43122 1846650	79256	206888	410377	845372	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	169042 9916640	336354	876665	1872580	3968031	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	59592 3534242	119049	304562	664364	1453618	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	11574 702642	32439	71738	154346	305436	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	28337 1445247	48668	143555	277052	634651	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	38209 2300672	83330	212801	435633	994907	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	8252 465834	15291	39367	83069	187817	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	CBZ	Ave	10450 692909	21065	57770	126000	290557	1.00 40.0	2.00	5.00	10.0	20.0
1-Chlorohexane	CBZ	Ave	26034 1616197	53315	153825	323033	737825	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	5066 283070	12120	30653	75284	115759	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	77964 5707768	173481	487252	1055729	2207198	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 207666

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/19/2015 20:00 Calibration End Date: 11/19/2015 21:50 Calibration ID: 31680

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCB	Ave	34212 2023262	89985	201814	441450	789665	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCB	Ave	81224 3422459	195606	498115	1144596	2368013	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3191.D
 Lims ID: STDA9 L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Nov-2015 20:00:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-009
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:28 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: quayler

Date: 20-Nov-2015 07:16:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.545	5.545	0.000	99	1401777	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.231	8.231	0.000	86	1079770	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.467	10.468	-0.001	94	545376	10.0	10.0	
25 Acetonitrile	41	3.332	3.341	-0.009	100	1617139	400.0	401.6	
36 Isopropyl ether	87	4.101	4.110	-0.009	92	1183206	40.0	43.0	
37 2-Chloro-1,3-butadiene	53	4.137	4.134	0.002	94	1857794	40.0	42.8	
38 Tert-butyl ethyl ether	59	4.421	4.418	0.002	96	3651558	40.0	45.9	
42 Ethyl acetate	43	4.622	4.619	0.003	99	2172162	80.0	84.0	
43 Propionitrile	54	4.645	4.643	0.002	99	1846650	400.0	399.9	
44 Methacrylonitrile	41	4.764	4.773	-0.009	94	9916640	400.0	477.6	
55 Tert-amyl methyl ether	73	5.379	5.388	-0.009	96	3534242	40.0	47.9	
57 n-Butanol	56	5.781	5.779	0.002	91	702642	1000.0	1055.3	
59 Ethyl acrylate	55	5.935	5.932	0.003	99	1445247	40.0	45.0	
62 Methyl methacrylate	41	6.124	6.134	-0.010	89	2300672	80.0	92.9	
66 2-Nitropropane	41	6.503	6.500	0.003	100	465834	80.0	96.8	
77 n-Butyl acetate	56	7.651	7.648	0.003	98	692909	40.0	49.2	
81 1-Chlorohexane	91	8.207	8.216	-0.009	98	1616197	40.0	45.7	
91 Cyclohexanone	55	9.307	9.305	0.002	93	283070	400.0	408.8	
101 Pentachloroethane	167	10.100	10.098	0.002	0	1404062	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.526	10.535	-0.009	98	5707768	40.0	50.2	
108 Benzyl chloride	126	10.633	10.630	0.003	0	378821	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.840	11.837	0.003	97	2023262	40.0	43.3	
117 2-Methylnaphthalene	142	14.017	14.026	-0.009	100	3422459	80.0	62.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00131

Amount Added: 32.00

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3191.D

Injection Date: 19-Nov-2015 20:00:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STDA9 L6

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

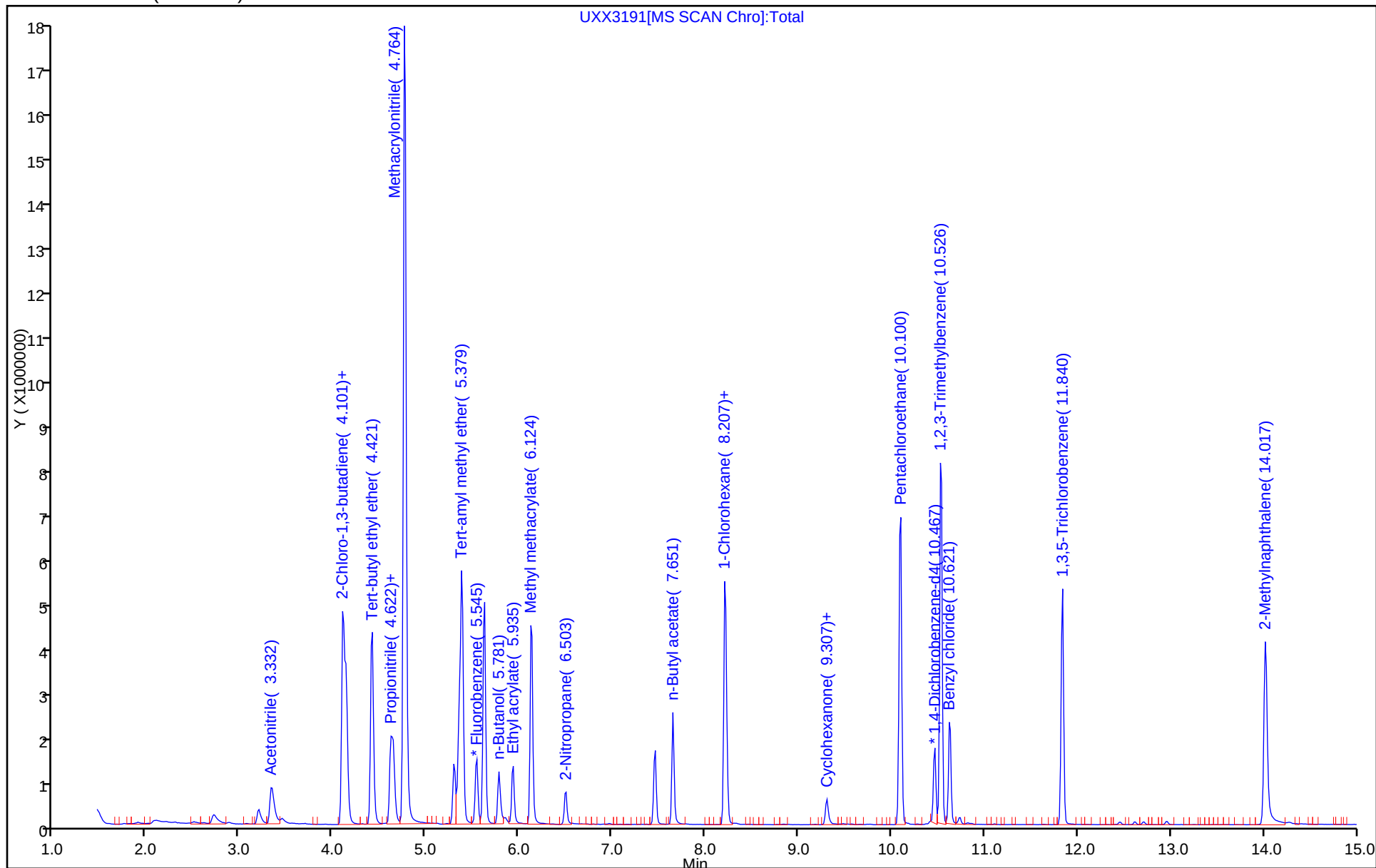
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3192.D
 Lims ID: STDA9 L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Nov-2015 20:22:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-010
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:34 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: quayler

Date: 20-Nov-2015 07:16:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.545	-0.003	99	1321838	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.231	-0.003	85	1039303	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.464	10.468	-0.004	94	491081	10.0	10.0	
25 Acetonitrile	41	3.329	3.341	-0.012	99	622905	200.0	164.0	
36 Isopropyl ether	87	4.110	4.110	0.000	91	514451	20.0	19.8	
37 2-Chloro-1,3-butadiene	53	4.134	4.134	0.000	94	856599	20.0	20.9	
38 Tert-butyl ethyl ether	59	4.418	4.418	0.000	94	1526315	20.0	20.3	
42 Ethyl acetate	43	4.619	4.619	0.000	99	970578	40.0	39.8	
43 Propionitrile	54	4.643	4.643	-0.001	99	845372	200.0	194.1	
44 Methacrylonitrile	41	4.773	4.773	0.000	93	3968031	200.0	202.7	
55 Tert-amyl methyl ether	73	5.388	5.388	0.000	96	1453618	20.0	20.9	
57 n-Butanol	56	5.778	5.779	-0.001	92	305436	500.0	476.6	
59 Ethyl acrylate	55	5.932	5.932	0.000	99	634651	20.0	21.0	
62 Methyl methacrylate	41	6.133	6.134	-0.001	89	994907	40.0	42.6	
66 2-Nitropropane	41	6.500	6.500	0.000	98	187817	40.0	41.4	
77 n-Butyl acetate	56	7.648	7.648	0.000	98	290557	20.0	21.4	
81 1-Chlorohexane	91	8.216	8.216	0.000	97	737825	20.0	21.7	
91 Cyclohexanone	55	9.305	9.305	0.000	93	115759	200.0	185.6	
101 Pentachloroethane	167	10.097	10.098	-0.001	0	509319	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.535	10.535	0.000	98	2207198	20.0	21.6	
108 Benzyl chloride	126	10.630	10.630	0.000	0	126124	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.837	11.837	0.000	98	789665	20.0	18.8	
117 2-Methylnaphthalene	142	14.014	14.026	-0.012	99	2368013	40.0	47.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00131

Amount Added: 16.00

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3192.D

Injection Date: 19-Nov-2015 20:22:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STDA9 L5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

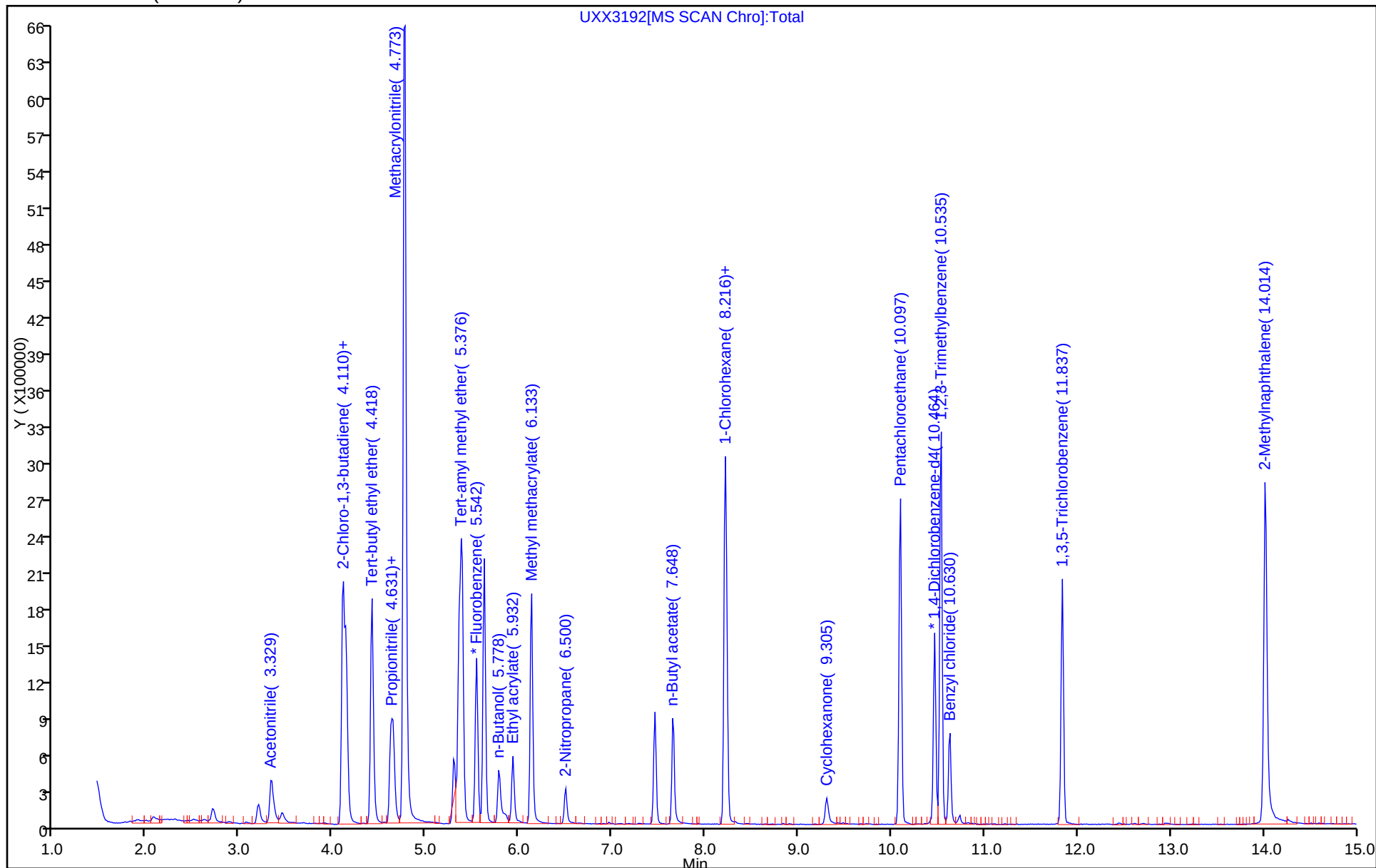
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3193.D
 Lims ID: STDA9 L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Nov-2015 20:44:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-011
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:42 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.542	0.000	99	1292034	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.228	0.000	86	987739	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.464	10.464	0.000	94	518290	10.0	10.0	
25 Acetonitrile	41	3.341	3.341	0.000	99	405582	100.0	109.3	
36 Isopropyl ether	87	4.110	4.110	0.000	91	246210	10.0	9.70	
37 2-Chloro-1,3-butadiene	53	4.134	4.134	0.000	95	396311	10.0	9.91	
38 Tert-butyl ethyl ether	59	4.418	4.418	0.000	94	708721	10.0	9.66	
42 Ethyl acetate	43	4.619	4.619	0.000	99	465252	20.0	19.5	
43 Propionitrile	54	4.643	4.643	0.000	98	410377	100.0	96.4	
44 Methacrylonitrile	41	4.773	4.773	0.000	93	1872580	100.0	97.8	
55 Tert-amyl methyl ether	73	5.388	5.388	0.000	94	664364	10.0	9.77	
57 n-Butanol	56	5.779	5.779	0.000	96	154346	250.0	253.4	
59 Ethyl acrylate	55	5.932	5.932	0.000	98	277052	10.0	9.36	
62 Methyl methacrylate	41	6.134	6.134	0.000	88	435633	20.0	19.1	
66 2-Nitropropane	41	6.500	6.500	0.000	99	83069	20.0	18.7	
77 n-Butyl acetate	56	7.648	7.648	0.000	99	126000	10.0	9.78	
81 1-Chlorohexane	91	8.216	8.216	0.000	97	323033	10.0	9.99	
91 Cyclohexanone	55	9.305	9.305	0.000	93	75284	100.0	114.4	
101 Pentachloroethane	167	10.098	10.098	0.000	0	258602	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.535	10.535	0.000	98	1055729	10.0	9.77	
108 Benzyl chloride	126	10.630	10.630	0.000	0	53542	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.837	11.837	0.000	98	441450	10.0	9.94	
117 2-Methylnaphthalene	142	14.026	14.026	0.000	99	1144596	20.0	21.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00131

Amount Added: 8.00

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3193.D

Injection Date: 19-Nov-2015 20:44:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STDA9 L4

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

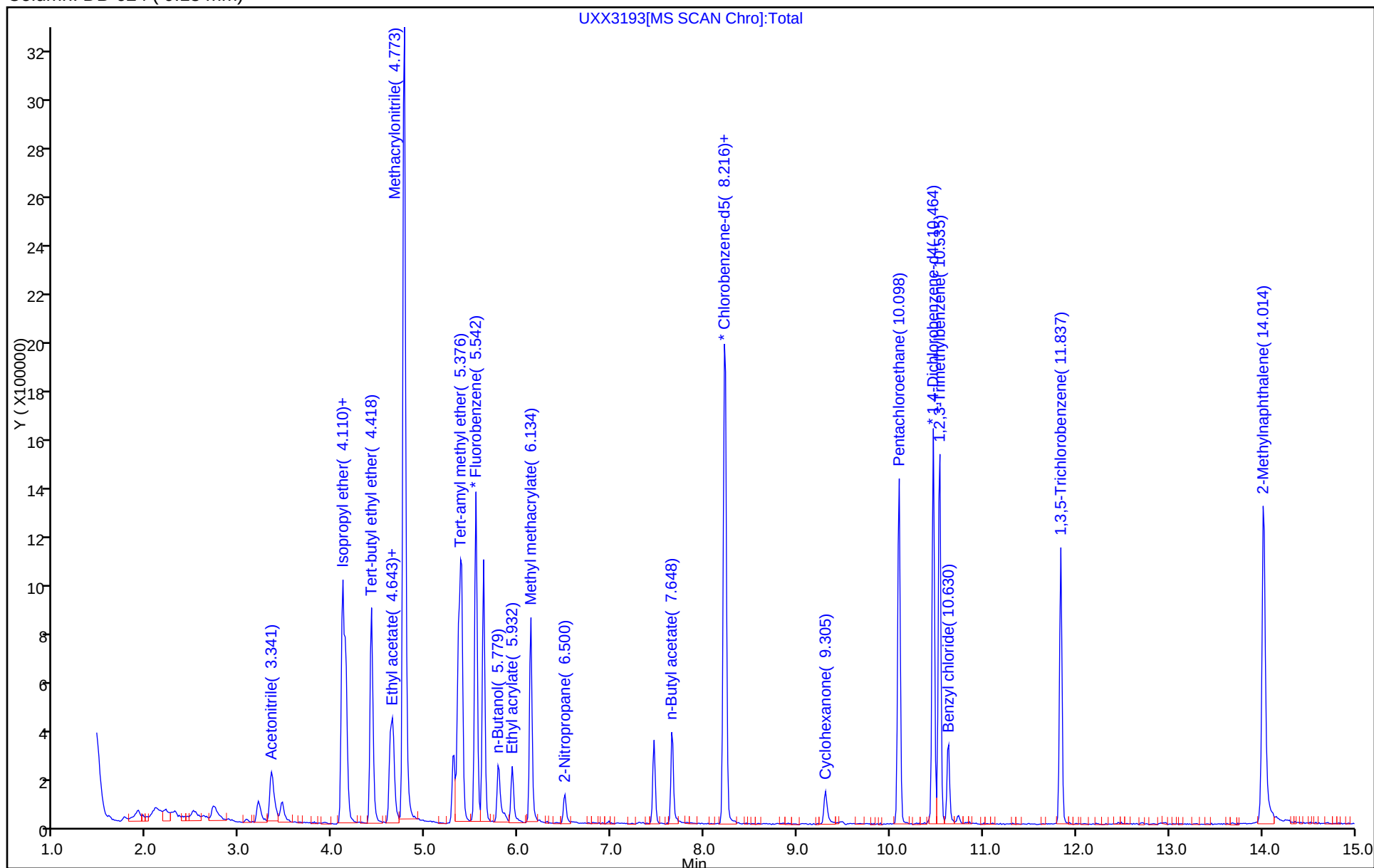
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3194.D
 Lims ID: STDA9 L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Nov-2015 21:06:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-012
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:48 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.543	5.542	0.001	99	1251506	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.229	8.228	0.001	86	966992	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.464	0.001	94	492225	10.0	10.0	
25 Acetonitrile	41	3.342	3.341	0.001	100	169465	50.0	47.1	
36 Isopropyl ether	87	4.111	4.110	0.001	89	119142	5.00	4.84	
37 2-Chloro-1,3-butadiene	53	4.134	4.134	0.000	95	187870	5.00	4.85	
38 Tert-butyl ethyl ether	59	4.418	4.418	0.000	94	343122	5.00	4.83	
42 Ethyl acetate	43	4.620	4.619	0.001	99	222347	10.0	9.64	
43 Propionitrile	54	4.643	4.643	0.000	99	206888	50.0	50.2	
44 Methacrylonitrile	41	4.773	4.773	0.000	92	876665	50.0	47.3	
55 Tert-amyl methyl ether	73	5.389	5.388	0.001	93	304562	5.00	4.62	
57 n-Butanol	56	5.779	5.779	0.000	93	71738	125.0	120.3	
59 Ethyl acrylate	55	5.933	5.932	0.001	98	143555	5.00	5.01	
62 Methyl methacrylate	41	6.134	6.134	0.000	90	212801	10.0	9.63	
66 2-Nitropropane	41	6.501	6.500	0.001	95	39367	10.0	9.17	
77 n-Butyl acetate	56	7.649	7.648	0.001	99	57770	5.00	4.58	
81 1-Chlorohexane	91	8.217	8.216	0.001	96	153825	5.00	4.86	
91 Cyclohexanone	55	9.305	9.305	0.000	92	30653	50.0	49.0	
101 Pentachloroethane	167	10.098	10.098	0.000	0	111736	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.536	10.535	0.001	98	487252	5.00	4.75	
108 Benzyl chloride	126	10.631	10.630	0.001	0	20466	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.838	11.837	0.001	96	201814	5.00	4.79	
117 2-Methylnaphthalene	142	14.015	14.026	-0.011	98	498115	10.0	10.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00131

Amount Added: 4.00

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3194.D

Injection Date: 19-Nov-2015 21:06:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STDA9 L3

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

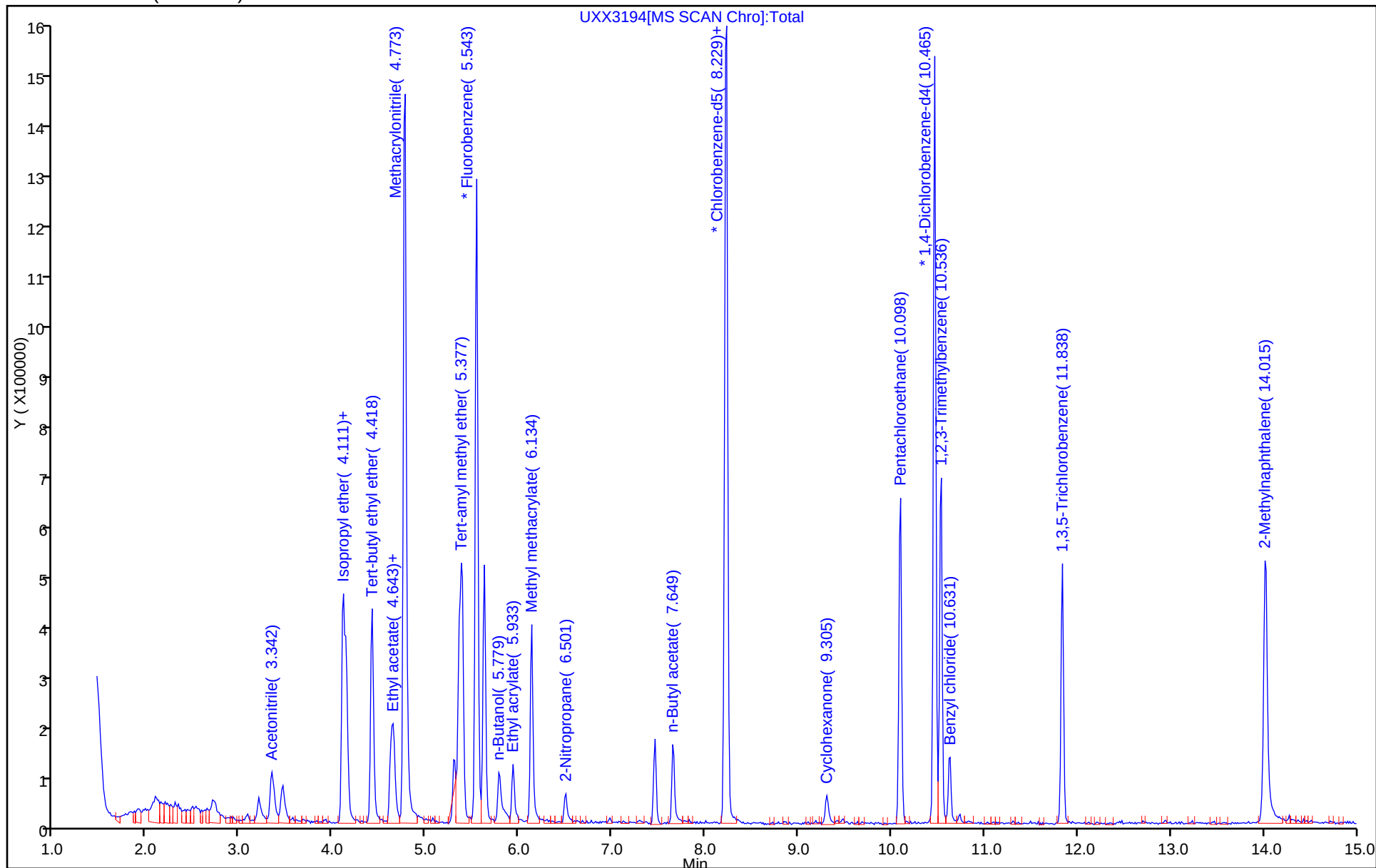
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3195.D
 Lims ID: STDA9 L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Nov-2015 21:28:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-013
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:55 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.544	5.542	0.002	99	1223267	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.230	8.228	0.002	85	908692	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.466	10.464	0.002	94	472043	10.0	10.0	
25 Acetonitrile	41	3.343	3.341	0.002	99	84926	20.0	24.2	
36 Isopropyl ether	87	4.112	4.110	0.002	89	43142	2.00	1.79	
37 2-Chloro-1,3-butadiene	53	4.136	4.134	0.002	95	71666	2.00	1.89	
38 Tert-butyl ethyl ether	59	4.420	4.418	0.002	94	128389	2.00	1.85	
42 Ethyl acetate	43	4.621	4.619	0.002	100	83919	4.00	3.72	
43 Propionitrile	54	4.645	4.643	0.002	98	79256	20.0	19.7	
44 Methacrylonitrile	41	4.763	4.773	-0.010	94	336354	20.0	18.6	
55 Tert-amyl methyl ether	73	5.378	5.388	-0.010	93	119049	2.00	1.85	
57 n-Butanol	56	5.781	5.779	0.002	92	32439	50.0	57.9	
59 Ethyl acrylate	55	5.935	5.932	0.002	99	48668	2.00	1.74	
62 Methyl methacrylate	41	6.124	6.134	-0.010	88	83330	4.00	3.86	
66 2-Nitropropane	41	6.491	6.500	-0.009	96	15291	4.00	3.64	
77 n-Butyl acetate	56	7.650	7.648	0.002	99	21065	2.00	1.78	
81 1-Chlorohexane	91	8.206	8.216	-0.010	91	53315	2.00	1.79	
91 Cyclohexanone	55	9.307	9.305	0.002	87	12120	20.0	20.2	
101 Pentachloroethane	167	10.100	10.098	0.002	0	38666	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.526	10.535	-0.009	98	173481	2.00	1.76	
108 Benzyl chloride	126	10.632	10.630	0.002	0	8728	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.839	11.837	0.002	97	89985	2.00	2.23	
117 2-Methylnaphthalene	142	14.016	14.026	-0.010	98	195606	4.00	4.09	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00131

Amount Added: 1.60

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3195.D

Injection Date: 19-Nov-2015 21:28:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STDA9 L2

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

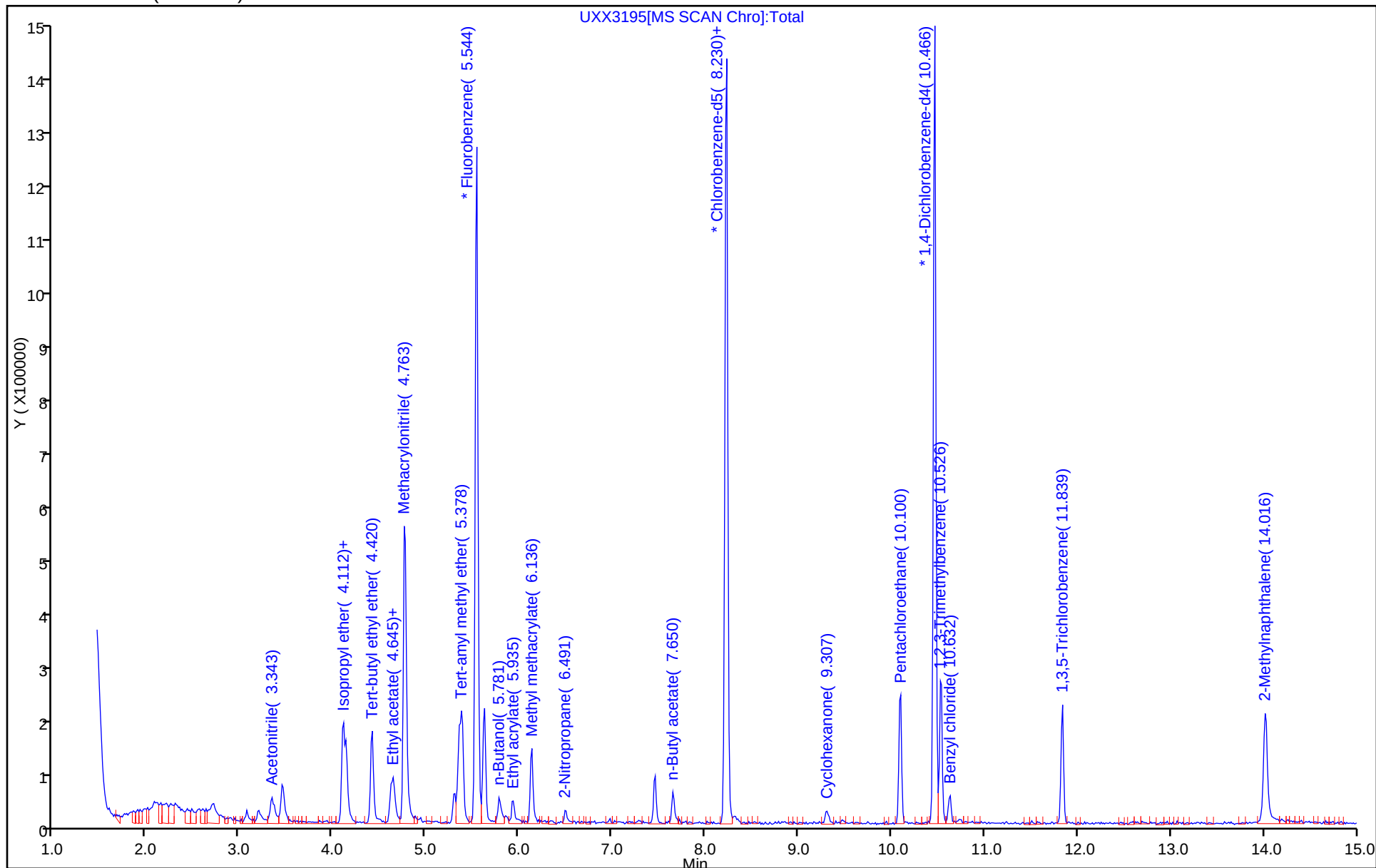
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Lims ID: STDA9 L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Nov-2015 21:50:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-014
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:59 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: quayler

Date: 20-Nov-2015 07:17:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.543	5.542	0.001	99	1213987	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.229	8.228	0.001	85	875481	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.464	0.001	95	436606	10.0	10.0	
25 Acetonitrile	41	3.342	3.341	0.001	99	32494	10.0	9.32	
36 Isopropyl ether	87	4.099	4.110	-0.011	92	26225	1.00	1.10	
37 2-Chloro-1,3-butadiene	53	4.135	4.134	0.001	94	36738	1.00	0.9773	
38 Tert-butyl ethyl ether	59	4.419	4.418	0.001	91	67532	1.00	0.9798	
42 Ethyl acetate	43	4.620	4.619	0.001	99	48489	2.00	2.17	
43 Propionitrile	54	4.655	4.643	0.012	99	43122	10.0	10.8	
44 Methacrylonitrile	41	4.774	4.773	0.001	90	169042	10.0	9.40	
55 Tert-amyl methyl ether	73	5.389	5.388	0.001	91	59592	1.00	0.9325	
57 n-Butanol	56	5.779	5.779	0.000	93	11574	25.0	21.4	
59 Ethyl acrylate	55	5.933	5.932	0.001	98	28337	1.00	1.02	
62 Methyl methacrylate	41	6.134	6.134	0.000	93	38209	2.00	1.78	
66 2-Nitropropane	41	6.489	6.500	-0.011	90	8252	2.00	1.98	
77 n-Butyl acetate	56	7.649	7.648	0.001	94	10450	1.00	0.9152	
81 1-Chlorohexane	91	8.205	8.216	-0.011	91	26034	1.00	0.9080	
91 Cyclohexanone	55	9.306	9.305	0.001	85	5066	10.0	9.14	
101 Pentachloroethane	167	10.098	10.098	0.000	0	20447	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.524	10.535	-0.011	98	77964	1.00	0.8569	
108 Benzyl chloride	126	10.619	10.630	-0.011	0	3209	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.838	11.837	0.001	94	34212	1.00	0.9147	
117 2-Methylnaphthalene	142	14.015	14.026	-0.011	97	81224	2.00	1.84	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00131

Amount Added: 0.80

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D

Injection Date: 19-Nov-2015 21:50:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STDA9 L1

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

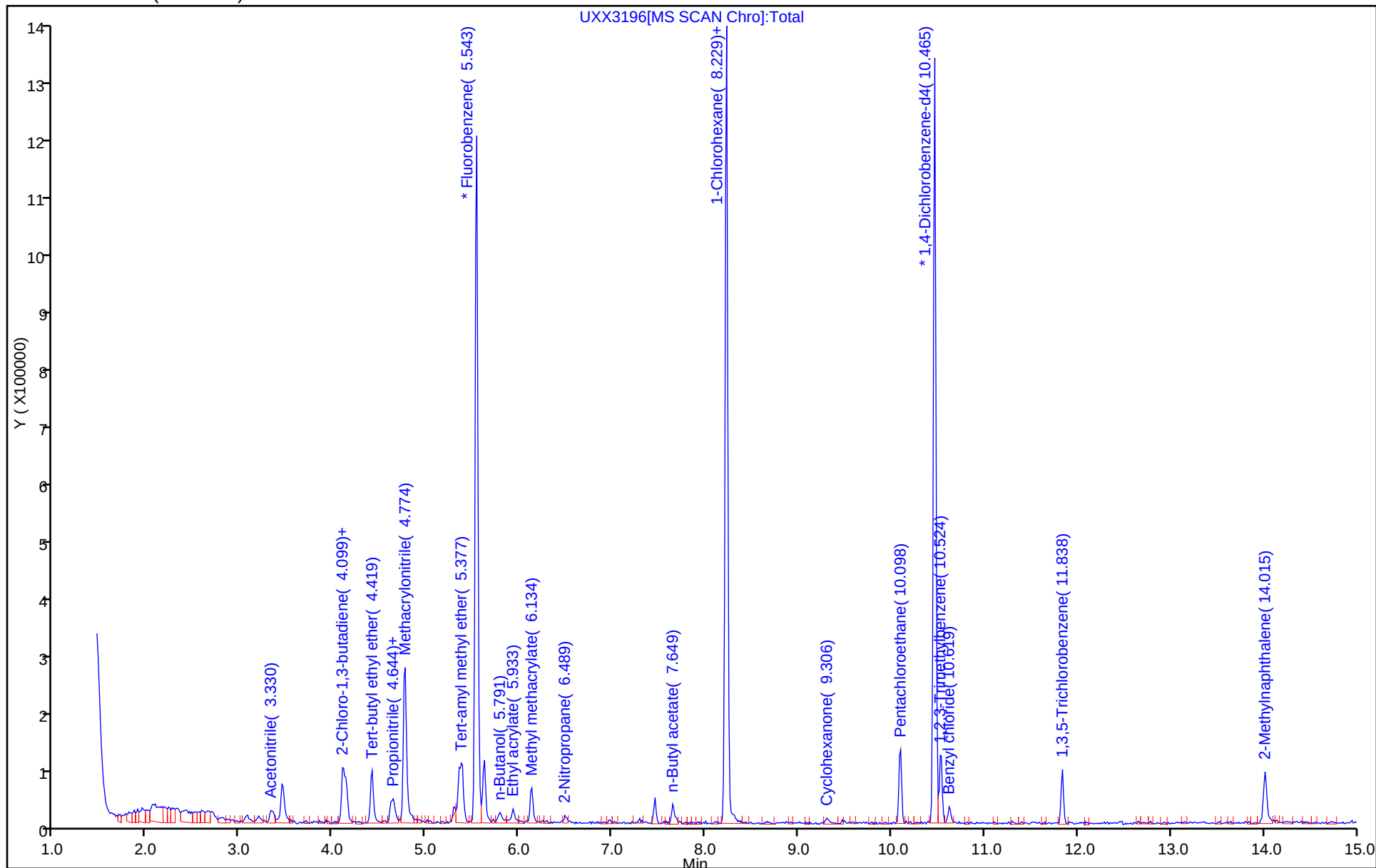
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-210268/7	UXX3725.D
Level 2	STD8260 240-210268/6	UXX3724.D
Level 3	STD8260 240-210268/5	UXX3723.D
Level 4	STD8260 240-210268/4	UXX3722.D
Level 5	STD8260 240-210268/3	UXX3721.D
Level 6	STD8260 240-210268/2	UXX3720.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 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2494 0.2134	0.2341	0.2494	0.2251	0.2294	Ave		0.2335			0.1000	6.1		15.0			
Chloromethane	0.2862 0.2182	0.2674	0.2630	0.2448	0.2314	Ave		0.2519			0.1000	10.0		15.0			
Vinyl chloride	0.2802 0.2106	0.2537	0.2560	0.2392	0.2250	Ave		0.2441			0.1000	10.1		15.0			
Butadiene	0.2501 0.2103	0.2299	0.2282	0.2106	0.2142	Ave		0.2239				6.9		15.0			
Bromomethane	0.1551 0.1040	0.1398	0.1304	0.1235	0.1174	Ave		0.1284			0.0500	13.9		15.0			
Chloroethane	0.1796 0.1454	0.1736	0.1634	0.1546	0.1474	Ave		0.1607				8.7		15.0			
Dichlorofluoromethane	0.3916 0.2793	0.3575	0.3571	0.3327	0.3083	Ave		0.3377				11.8		15.0			
Trichlorofluoromethane	0.2006 0.1726	0.1766	0.1982	0.1769	0.1798	Ave		0.1841			0.1000	6.6		15.0			
Ethyl ether	0.2303 0.1770	0.1971	0.1896	0.1895	0.1791	Ave		0.1938				10.0		15.0			
Acrolein	0.0348 0.0352	0.0360	0.0350	0.0364	0.0342	Ave		0.0353				2.3		15.0			
1,1-Dichloroethene	0.2444 0.2201	0.2264	0.2335	0.2224	0.2166	Ave		0.2272			0.1000	4.5		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2337 0.2082	0.2170	0.2322	0.2149	0.2095	Ave		0.2193			0.0500	5.1		15.0			
Acetone	0.1295 0.0651	0.0943	0.0676	0.0748	0.0680	Lin1	0.1222	0.0642			0.0500				0.9970		0.9900
Iodomethane	0.4386 0.3838	0.4223	0.4255	0.4169	0.3965	Ave		0.4139				4.9		15.0			
Carbon disulfide	0.5516 0.5811	0.5289	0.5614	0.5688	0.5631	Ave		0.5592			0.1000	3.2		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

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 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1231 0.1375	0.1182	0.1314	0.1309	0.1307	Ave		0.1286				5.3		15.0			
Methyl acetate	0.1646 0.1489	0.1550	0.1483	0.1511	0.1465	Ave		0.1524			0.1000	4.4		15.0			
Methylene Chloride	0.4476 0.2279	0.3271	0.2744	0.2573	0.2326	Lin1	0.2261	0.2238			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.0138 ++++	0.0147	0.0129	0.0142	0.0130	Ave		0.0135				6.3		15.0			
Acrylonitrile	0.0790 0.0791	0.0775	0.0774	0.0804	0.0775	Ave		0.0785				1.6		15.0			
Methyl tert-butyl ether	0.6055 0.6598	0.5945	0.6194	0.6347	0.6353	Ave		0.6248			0.1000	3.8		15.0			
trans-1,2-Dichloroethene	0.2614 0.2521	0.2495	0.2543	0.2554	0.2449	Ave		0.2529			0.1000	2.2		15.0			
Hexane	0.0478 0.0542	0.0539	0.0568	0.0521	0.0551	Ave		0.0533				5.8		15.0			
1,1-Dichloroethane	0.4062 0.3766	0.3879	0.3879	0.3853	0.3739	Ave		0.3863			0.1000	2.9		15.0			
Vinyl acetate	0.3026 0.3577	0.3012	0.3164	0.3289	0.3358	Ave		0.3238				6.7		15.0			
2,2-Dichloropropane	0.1959 0.2038	0.1767	0.1934	0.1965	0.1951	Ave		0.1936				4.6		15.0			
cis-1,2-Dichloroethene	0.2695 0.2683	0.2653	0.2697	0.2710	0.2608	Ave		0.2674			0.1000	1.4		15.0			
2-Butanone (MEK)	0.1064 0.0920	0.0874	0.0946	0.0965	0.0933	Ave		0.0950			0.0500	6.7		15.0			
Chlorobromomethane	0.1533 0.1452	0.1493	0.1499	0.1493	0.1451	Ave		0.1487				2.1		15.0			
Tetrahydrofuran	0.0533 0.0545	0.0523	0.0524	0.0560	0.0550	Ave		0.0539				2.8		15.0			
Chloroform	0.4482 0.4064	0.4125	0.4142	0.4120	0.3992	Ave		0.4154				4.1		15.0			
1,1,1-Trichloroethane	0.3051 0.3129	0.2864	0.3064	0.3131	0.3022	Ave		0.3043			0.1000	3.2		15.0			
Cyclohexane	0.3070 0.3118	0.2908	0.3166	0.3056	0.3066	Ave		0.3064			0.1000	2.8		15.0			
1,1-Dichloropropene	0.2870 0.2899	0.2755	0.2817	0.2877	0.2818	Ave		0.2840				1.9		15.0			
Carbon tetrachloride	0.2559 0.2936	0.2563	0.2752	0.2747	0.2779	Ave		0.2723			0.1000	5.3		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

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 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0078 0.0076	0.0092	0.0083	0.0083	0.0080	Ave		0.0082				6.9		15.0			
Benzene	1.0208 0.9950	0.9708	0.9754	0.9814	0.9614	Ave		0.9841			0.5000	2.2		15.0			
1,2-Dichloroethane	0.3414 0.3103	0.3234	0.3282	0.3258	0.3121	Ave		0.3235			0.1000	3.5		15.0			
n-Heptane	0.0422 0.0466	0.0435	0.0467	0.0420	0.0447	Ave		0.0443				4.7		15.0			
Trichloroethene	0.3106 0.2995	0.2976	0.3033	0.3032	0.2941	Ave		0.3014			0.2000	1.9		15.0			
Methylcyclohexane	0.3045 0.3222	0.2883	0.3170	0.3049	0.3095	Ave		0.3077			0.1000	3.8		15.0			
1,2-Dichloropropane	0.2143 0.2043	0.2070	0.2024	0.2071	0.2009	Ave		0.2060			0.1000	2.3		15.0			
Dibromomethane	0.1447 0.1400	0.1410	0.1445	0.1448	0.1398	Ave		0.1425				1.7		15.0			
1,4-Dioxane	0.0019 ++++	0.0025	0.0025	0.0026	0.0024	Ave		0.0023				13.3		15.0			
Bromodichloromethane	0.2567 0.2959	0.2482	0.2695	0.2818	0.2815	Ave		0.2723			0.1000	6.5		15.0			
2-Chloroethyl vinyl ether	0.1025 0.1358	0.1057	0.1178	0.1308	0.1322	Ave		0.1208				11.8		15.0			
cis-1,3-Dichloropropene	0.2506 0.3404	0.2472	0.2829	0.3142	0.3177	Ave		0.2922			0.1500	13.1		15.0			
4-Methyl-2-pentanone (MIBK)	0.1693 0.1768	0.1505	0.1702	0.1819	0.1791	Ave		0.1713			0.0500	6.6		15.0			
Toluene	1.3439 1.5388	1.3292	1.3670	1.4371	1.4274	Ave		1.4072			0.4000	5.5		15.0			
trans-1,3-Dichloropropene	0.2650 0.3950	0.2694	0.3080	0.3460	0.3714	Lin1	-0.197	0.3874			0.1000				0.9970		0.9900
Ethyl methacrylate	0.2474 0.3834	0.2669	0.3034	0.3454	0.3626	Lin1	-0.192	0.3781							0.9980		0.9900
1,1,2-Trichloroethane	0.2875 0.2903	0.2795	0.2849	0.2972	0.2864	Ave		0.2876			0.1000	2.0		15.0			
Tetrachloroethene	0.3585 0.3531	0.3475	0.3484	0.3485	0.3337	Ave		0.3483			0.2000	2.4		15.0			
1,3-Dichloropropane	0.4951 0.4920	0.4678	0.4687	0.4912	0.4739	Ave		0.4815				2.6		15.0			
2-Hexanone	0.1348 0.1719	0.1510	0.1517	0.1719	0.1715	Ave		0.1588			0.0500	9.7		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

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 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.2566 0.3416	0.2435	0.2760	0.3052	0.3103	Ave		0.2889				12.7		15.0			
1,2-Dibromoethane	0.2902 0.3039	0.2854	0.2850	0.3107	0.2961	Ave		0.2952				3.5		15.0			
Chlorobenzene	1.0260 1.0226	0.9724	0.9633	1.0194	0.9864	Ave		0.9984			0.3000	2.8		15.0			
1,1,1,2-Tetrachloroethane	0.2933 0.3427	0.2925	0.3133	0.3282	0.3303	Ave		0.3167				6.5		15.0			
Ethylbenzene	0.4748 0.5235	0.4580	0.4742	0.5096	0.5051	Ave		0.4909				5.2		15.0			
m,p-Xylene	0.5655 0.6536	0.5424	0.6192	0.6437	0.6317	Ave		0.6094				7.4		15.0			
o-Xylene	0.5172 0.6104	0.5181	0.5620	0.6055	0.5897	Ave		0.5672				7.4		15.0			
Styrene	0.8371 1.1330	0.8417	0.9642	1.0570	1.0660	Ave		0.9832			0.3000	12.6		15.0			
Bromoform	0.1762 0.2463	0.1650	0.1838	0.2090	0.2238	Lin1	-0.119	0.2379			0.1000				0.9950		0.9900
Isopropylbenzene	1.1797 1.5750	1.2265	1.3736	1.4802	1.4420	Ave		1.3795			0.1000	11.0		15.0			
1,1,2,2-Tetrachloroethane	0.6538 0.6370	0.6189	0.6336	0.6526	0.6286	Ave		0.6374			0.3000	2.1		15.0			
Bromobenzene	0.8978 0.8831	0.8389	0.8624	0.8901	0.8618	Ave		0.8724				2.5		15.0			
1,2,3-Trichloropropane	0.2552 0.2423	0.2480	0.2491	0.2549	0.2440	Ave		0.2489				2.2		15.0			
trans-1,4-Dichloro-2-butene	0.1442 0.1830	0.1386	0.1514	0.1666	0.1735	Ave		0.1596				11.0		15.0			
N-Propylbenzene	0.6653 0.7911	0.6828	0.7494	0.7857	0.7532	Ave		0.7379				7.1		15.0			
2-Chlorotoluene	0.6931 0.6876	0.6673	0.6776	0.7029	0.6788	Ave		0.6845				1.8		15.0			
1,3,5-Trimethylbenzene	1.7711 2.1668	1.7542	1.9688	2.1140	2.0614	Ave		1.9727				8.9		15.0			
4-Chlorotoluene	0.7181 0.7495	0.7124	0.7496	0.7670	0.7375	Ave		0.7390				2.8		15.0			
tert-Butylbenzene	1.5590 1.8149	1.4944	1.6670	1.7617	1.7170	Ave		1.6690				7.3		15.0			
1,2,4-Trimethylbenzene	1.7634 2.2333	1.8508	2.0591	2.1985	2.1406	Ave		2.0409				9.4		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268
SDG No.: _____
Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

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 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	1.9098 2.2918	1.8936	2.1132	2.1899	2.1461	Ave		2.0907				7.6		15.0			
1,3-Dichlorobenzene	1.5231 1.4091	1.4195	1.4296	1.4397	1.3893	Ave		1.4351			0.6000	3.2		15.0			
4-Isopropyltoluene	1.6283 2.1140	1.6852	1.9060	2.0276	1.9987	Ave		1.8933				10.3		15.0			
1,4-Dichlorobenzene	1.6265 1.4854	1.5056	1.4876	1.5136	1.4490	Ave		1.5113			0.5000	4.0		15.0			
n-Butylbenzene	1.1358 1.4197	1.1662	1.2649	1.3395	1.3441	Ave		1.2784				8.6		15.0			
1,2-Dichlorobenzene	1.4344 1.3172	1.3409	1.3448	1.3801	1.3118	Ave		1.3549			0.4000	3.4		15.0			
1,2-Dibromo-3-Chloropropane	0.0966 0.1208	0.1073	0.1110	0.1190	0.1213	Ave		0.1127			0.0500	8.6		15.0			
1,2,4-Trichlorobenzene	0.8167 0.7605	0.7090	0.8228	0.8413	0.8237	Ave		0.7957			0.2000	6.4		15.0			
Hexachlorobutadiene	0.3740 0.2978	0.3082	0.3503	0.3481	0.3274	Ave		0.3343				8.6		15.0			
Naphthalene	1.4373 1.8633	1.3572	1.7731	2.0067	2.0519	Lin1	-0.669	1.9573							0.9960		0.9900
1,2,3-Trichlorobenzene	0.8115 0.7192	0.7060	0.8581	0.8775	0.8321	Ave		0.8007				9.0		15.0			
Dibromofluoromethane (Surr)	0.2398 0.2347	0.2367	0.2402	0.2344	0.2336	Ave		0.2366				1.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2897 0.2592	0.2661	0.2684	0.2623	0.2578	Ave		0.2673				4.4		15.0			
Toluene-d8 (Surr)	1.1141 1.3257	1.1844	1.2054	1.2111	1.2625	Ave		1.2172				5.9		15.0			
4-Bromofluorobenzene (Surr)	0.3949 0.4303	0.4041	0.4269	0.4300	0.4279	Ave		0.4190				3.7		15.0			

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

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-210268/7	UXX3725.D
Level 2	STD8260 240-210268/6	UXX3724.D
Level 3	STD8260 240-210268/5	UXX3723.D
Level 4	STD8260 240-210268/4	UXX3722.D
Level 5	STD8260 240-210268/3	UXX3721.D
Level 6	STD8260 240-210268/2	UXX3720.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	40997 1621852	78467	218383	417565	867391	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	47058 1658867	89620	230341	454066	875135	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	46066 1600731	85027	224143	443675	851059	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	41125 1598840	77070	199861	390577	809978	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	25496 790643	46861	114212	228976	444121	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	29530 1105056	58190	143110	286753	557292	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	64373 2123309	119813	312717	617042	1165746	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	32981 1312005	59206	173525	328091	679778	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	37859 1345484	66075	166029	351429	677217	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	28645 1338195	60373	153228	337540	646438	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	40179 1672764	75890	204471	412459	818988	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	38429 1582325	72744	203359	398649	792158	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	42594 990462	63226	118466	277341	514539	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	72103 2917736	141527	372591	773261	1499396	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	90690 4417271	177261	491641	1054964	2129500	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	20236 1045324	39630	115071	242841	494193	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	135322 5659727	259724	649226	1400750	2770705	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	73583 1732473	109632	240256	477291	879778	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	22692 ++++	49354	113052	262510	491822	10.0 ++++	20.0	50.0	100	200
Acrylonitrile	FB	Ave	129807 6013464	259811	677544	1490666	2929321	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	99540 5015484	199241	542349	1177218	2402461	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	42968 1916388	83629	222701	473672	926321	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	7861 412362	18081	49725	96707	208521	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	66777 2863123	130019	339712	714653	1414071	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	49743 2719056	100947	277047	609973	1270008	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	32212 1549271	59238	169317	364361	737813	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	44300 2039718	88911	236162	502539	986213	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	34992 1398666	58585	165696	357783	705685	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	25206 1103593	50049	131241	276864	548679	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	17513 828442	35028	91796	207680	415868	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	73688 3088981	138270	362726	764060	1509839	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	50167 2378227	95979	268307	580709	1142851	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	50476 2370102	97480	277234	566781	1159661	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	47191 2203716	92350	246690	533637	1065823	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	42069 2232214	85898	241027	509482	1050775	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	24504 1063552	57318	138412	289042	559322	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	167822 7563630	325364	854150	1820133	3635905	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	56123 2358818	108406	287360	604251	1180434	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	6932 354565	14566	40858	77971	168863	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	51065 2276474	99734	265553	562316	1112187	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	50054 2449284	96624	277608	565389	1170379	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	35238 1552756	69371	177244	384140	759608	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	23791 1064611	47257	126493	268469	528746	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	6310 ++++	16650	43847	98059	178354	20.0 ++++	40.0	100	200	400
Bromodichloromethane	FB	Ave	42202 2249586	83177	235991	522700	1064371	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	33719 2064190	70857	206268	485261	999859	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	41201 2587897	82862	247757	582690	1201304	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	55651 2688219	100909	298077	674778	1354356	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	168806 8657011	331951	911170	1999144	4015204	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Lin1	33286 2222213	67273	205323	481311	1044734	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Lin1	31072 2156770	66648	202237	480431	1020064	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	36111 1633484	69798	189907	413391	805604	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	45035 1986276	86784	232257	484826	938555	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	62190 2768093	116833	312411	683359	1333151	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	33876 1934675	75434	202178	478241	964575	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Ave	32237 1921881	60807	183948	424631	872786	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	36450 1709687	71270	189941	432157	832766	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	128876 5753321	242854	642104	1418169	2774732	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	36845 1928250	73036	208809	456559	929205	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	59636 2945279	114378	316093	708907	1420790	1.00 40.0	2.00	5.00	10.0	20.0
m,p-Xylene	CBZ	Ave	71037 3676836	135462	412761	895405	1776982	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	64970 3434259	129395	374576	842321	1658858	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	105143 6374453	210193	642712	1470427	2998488	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Lin1	22135 1385619	41210	122514	290756	629613	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	148180 8861089	306292	915563	2059098	4056178	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	40743 1888798	81472	225867	487378	938772	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	55949 2618774	110436	307443	664704	1286915	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	15903 718486	32641	88783	190345	364387	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	8986 542610	18245	53961	124450	259127	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	41458 2345769	89885	267133	586774	1124754	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	43194 2038838	87845	241568	524895	1013652	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	110373 6425298	230915	701851	1578707	3078296	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	44753 2222555	93784	267207	572819	1101268	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	97152 5381862	196711	594247	1315656	2564053	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	109889 6622592	243634	734023	1641805	3196586	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	119017 6796061	249269	753315	1635392	3204801	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	94919 4178484	186852	509636	1075193	2074624	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	101474 6268638	221836	679447	1514193	2984799	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	101363 4404683	198192	530296	1130332	2163792	1.00 40.0	2.00	5.00	10.0	20.0

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

Lab Name: TestAmerica Canton Job No.: 480-93136-1 Analy Batch No.: 210268

SDG No.: _____

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2015 13:55 Calibration End Date: 12/10/2015 15:45 Calibration ID: 31994

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	70783 4209875	153516	450908	1000362	2007260	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	89390 3906005	176507	479397	1030651	1959007	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	6020 358233	14130	39587	88892	181201	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	50893 2255075	93336	293330	628289	1230119	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	23309 883048	40574	124885	259957	488863	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Lin1	89571 5525310	178654	632084	1498581	3064192	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	50568 2132729	92934	305897	655294	1242624	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	39423 1784221	79326	210299	434750	883317	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	47630 1970111	89200	235059	486390	975046	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	139943 7458334	295801	803472	1684770	3551306	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	49600 2420861	100908	284559	598233	1203540	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3720.D
 Lims ID: STD8260 L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 10-Dec-2015 13:55:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050067-002
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 11-Dec-2015 08:28:51 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: quayler

Date: 10-Dec-2015 14:58:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.543	5.544	-0.001	99	1900436	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.229	8.230	-0.001	81	1406481	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.466	10.467	-0.001	91	741340	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.975	4.976	-0.001	95	1784221	40.0	39.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.259	5.260	-0.001	0	1970111	40.0	38.8	
\$ 6 Toluene-d8 (Surr)	98	6.904	6.905	-0.001	92	7458334	40.0	43.6	
\$ 7 4-Bromofluorobenzene (Surr	95	9.342	9.331	0.011	96	2420861	40.0	41.1	
9 Dichlorodifluoromethane	85	1.591	1.592	-0.001	100	1621852	40.0	36.6	
10 Chloromethane	50	1.745	1.746	-0.001	100	1658867	40.0	34.7	
11 Vinyl chloride	62	1.875	1.864	0.011	99	1600731	40.0	34.5	
12 Butadiene	54	1.899	1.888	0.011	96	1598840	40.0	37.6	
13 Bromomethane	94	2.195	2.196	-0.001	89	790643	40.0	32.4	
14 Chloroethane	64	2.289	2.290	-0.001	99	1105056	40.0	36.2	
15 Dichlorofluoromethane	67	2.490	2.480	0.010	98	2123309	40.0	33.1	
16 Trichlorofluoromethane	101	2.514	2.515	-0.001	99	1312005	40.0	37.5	
17 Ethyl ether	59	2.786	2.787	-0.001	87	1345484	40.0	36.5	
18 Acrolein	56	2.916	2.917	-0.001	99	1338195	200.0	199.6	
19 1,1-Dichloroethene	96	3.011	3.012	-0.001	96	1672764	40.0	38.7	
20 1,1,2-Trichloro-1,2,2-trif	151	3.023	3.024	-0.001	86	1582325	40.0	38.0	
21 Acetone	43	3.058	3.059	-0.001	100	990462	80.0	79.3	
22 Iodomethane	142	3.153	3.154	-0.001	97	2917736	40.0	37.1	
24 Carbon disulfide	76	3.212	3.213	-0.001	99	4417271	40.0	41.6	
26 3-Chloro-1-propene	76	3.331	3.332	-0.001	89	1045324	40.0	42.8	
27 Methyl acetate	43	3.354	3.355	-0.001	97	5659727	200.0	195.4	
28 Methylene Chloride	84	3.449	3.450	-0.001	85	1732473	40.0	39.7	
29 2-Methyl-2-propanol	59	3.555	3.556	-0.001	93	949869	400.0	364.3	
31 Acrylonitrile	53	3.686	3.687	-0.001	99	6013464	400.0	403.3	
32 Methyl tert-butyl ether	73	3.686	3.687	-0.001	89	5015484	40.0	42.2	
30 trans-1,2-Dichloroethene	96	3.686	3.687	-0.001	89	1916388	40.0	39.9	
33 Hexane	86	3.910	3.911	-0.001	90	412362	40.0	40.7	
34 1,1-Dichloroethane	63	4.064	4.065	-0.001	96	2863123	40.0	39.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.100	4.101	-0.001	97	2719056	40.0	44.2	
40 cis-1,2-Dichloroethene	96	4.561	4.562	-0.001	81	2039718	40.0	40.1	
39 2,2-Dichloropropane	77	4.561	4.562	-0.001	82	1549271	40.0	42.1	
41 2-Butanone (MEK)	43	4.573	4.574	-0.001	99	1398666	80.0	77.4	
45 Chlorobromomethane	128	4.774	4.775	-0.001	84	1103593	40.0	39.1	
46 Tetrahydrofuran	42	4.810	4.811	-0.001	95	828442	80.0	80.9	
47 Chloroform	83	4.833	4.834	-0.001	93	3088981	40.0	39.1	
48 1,1,1-Trichloroethane	97	4.987	4.988	-0.001	97	2378227	40.0	41.1	
49 Cyclohexane	56	5.034	5.035	-0.001	85	2370102	40.0	40.7	
50 1,1-Dichloropropene	75	5.129	5.130	-0.001	95	2203716	40.0	40.8	
51 Carbon tetrachloride	117	5.129	5.130	-0.001	97	2232214	40.0	43.1	
52 Isobutyl alcohol	41	5.212	5.213	-0.001	93	1063552	1000.0	923.7	
53 Benzene	78	5.307	5.308	-0.001	94	7563630	40.0	40.4	
54 1,2-Dichloroethane	62	5.330	5.331	-0.001	98	2358818	40.0	38.4	
56 n-Heptane	100	5.496	5.497	-0.001	87	354565	40.0	42.1	
58 Trichloroethene	130	5.851	5.852	-0.001	93	2276474	40.0	39.7	
60 Methylcyclohexane	83	6.005	6.018	-0.013	85	2449284	40.0	41.9	
61 1,2-Dichloropropane	63	6.052	6.053	-0.001	95	1552756	40.0	39.7	
64 1,4-Dioxane	88	6.170	6.160	0.010	89	295085	800.0	652.0	
63 Dibromomethane	93	6.159	6.160	-0.001	95	1064611	40.0	39.3	
65 Dichlorobromomethane	83	6.289	6.290	-0.001	99	2249586	40.0	43.5	
67 2-Chloroethyl vinyl ether	63	6.537	6.538	-0.001	93	2064190	80.0	89.9	
68 cis-1,3-Dichloropropene	75	6.667	6.668	-0.001	96	2587897	40.0	46.6	
69 4-Methyl-2-pentanone (MIBK)	43	6.809	6.810	-0.001	94	2688219	80.0	82.6	
70 Toluene	91	6.963	6.964	-0.001	98	8657011	40.0	43.7	
71 trans-1,3-Dichloropropene	75	7.164	7.165	-0.001	91	2222213	40.0	41.3	
72 Ethyl methacrylate	69	7.224	7.225	-0.001	87	2156770	40.0	41.1	
73 1,1,2-Trichloroethane	97	7.330	7.331	-0.001	90	1633484	40.0	40.4	
74 Tetrachloroethene	164	7.460	7.461	-0.001	97	1986276	40.0	40.5	
75 1,3-Dichloropropane	76	7.484	7.485	-0.001	89	2768093	40.0	40.9	
76 2-Hexanone	43	7.555	7.556	-0.001	94	1934675	80.0	86.6	
78 Chlorodibromomethane	129	7.697	7.698	-0.001	89	1921881	40.0	47.3	
80 Ethylene Dibromide	107	7.815	7.816	-0.001	99	1709687	40.0	41.2	
82 Chlorobenzene	112	8.253	8.254	-0.001	98	5753321	40.0	41.0	
83 1,1,1,2-Tetrachloroethane	131	8.324	8.325	-0.001	94	1928250	40.0	43.3	
84 Ethylbenzene	106	8.348	8.349	-0.001	97	2945279	40.0	42.7	
85 m-Xylene & p-Xylene	106	8.454	8.455	-0.001	99	3676836	40.0	42.9	
86 o-Xylene	106	8.833	8.834	-0.001	95	3434259	40.0	43.1	
87 Styrene	104	8.845	8.846	-0.001	94	6374453	40.0	46.1	
88 Bromoform	173	9.046	9.035	0.011	98	1385619	40.0	41.9	
89 Isopropylbenzene	105	9.176	9.177	-0.001	94	8861089	40.0	45.7	
92 1,1,2,2-Tetrachloroethane	83	9.472	9.473	-0.001	97	1888798	40.0	40.0	
93 Bromobenzene	156	9.495	9.496	-0.001	84	2618774	40.0	40.5	
94 1,2,3-Trichloropropane	110	9.531	9.520	0.011	85	718486	40.0	38.9	
95 trans-1,4-Dichloro-2-buten	53	9.531	9.532	-0.001	77	542610	40.0	45.9	
96 N-Propylbenzene	120	9.578	9.579	-0.001	98	2345769	40.0	42.9	
97 2-Chlorotoluene	126	9.673	9.674	-0.001	98	2038838	40.0	40.2	
98 1,3,5-Trimethylbenzene	105	9.744	9.745	-0.001	93	6425298	40.0	43.9	
99 4-Chlorotoluene	126	9.779	9.780	-0.001	95	2222555	40.0	40.6	
100 tert-Butylbenzene	119	10.063	10.064	-0.001	89	5381862	40.0	43.5	
102 1,2,4-Trimethylbenzene	105	10.111	10.112	-0.001	94	6622592	40.0	43.8	
103 sec-Butylbenzene	105	10.276	10.277	-0.001	92	6796061	40.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,3-Dichlorobenzene	146	10.407	10.408	-0.001	96	4178484	40.0	39.3	
105 4-Isopropyltoluene	119	10.418	10.419	-0.001	97	6268638	40.0	44.7	
106 1,4-Dichlorobenzene	146	10.489	10.490	-0.001	98	4404683	40.0	39.3	
109 n-Butylbenzene	91	10.821	10.822	-0.001	96	4209875	40.0	44.4	
110 1,2-Dichlorobenzene	146	10.856	10.857	-0.001	98	3906005	40.0	38.9	
111 1,2-Dibromo-3-Chloropropan	157	11.637	11.638	-0.001	94	358233	40.0	42.9	
113 1,2,4-Trichlorobenzene	180	12.454	12.455	-0.001	93	2255075	40.0	38.2	
114 Hexachlorobutadiene	225	12.619	12.620	-0.001	90	883048	40.0	35.6	
115 Naphthalene	128	12.714	12.715	-0.001	100	5525310	40.0	38.4	
116 1,2,3-Trichlorobenzene	180	12.962	12.963	-0.001	98	2132729	40.0	35.9	
S 128 1,2-Dichloroethene, Total	96				0		80.0	80.0	
S 129 1,3-Dichloropropene, Total	75				0		80.0	87.9	
S 130 Xylenes, Total	106				0		80.0	86.0	
S 131 Trihalomethanes, Total	1				0		160.0	171.8	

Reagents:

VMRPRIMW_00160	Amount Added: 32.00	Units: uL
VMRGAS_00129	Amount Added: 32.00	Units: uL
vm50ss_00223	Amount Added: 32.00	Units: uL
VMAROLISTDW_00128	Amount Added: 32.00	Units: uL
VM50IS_00052	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3720.D

Injection Date: 10-Dec-2015 13:55:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STD8260 L6

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

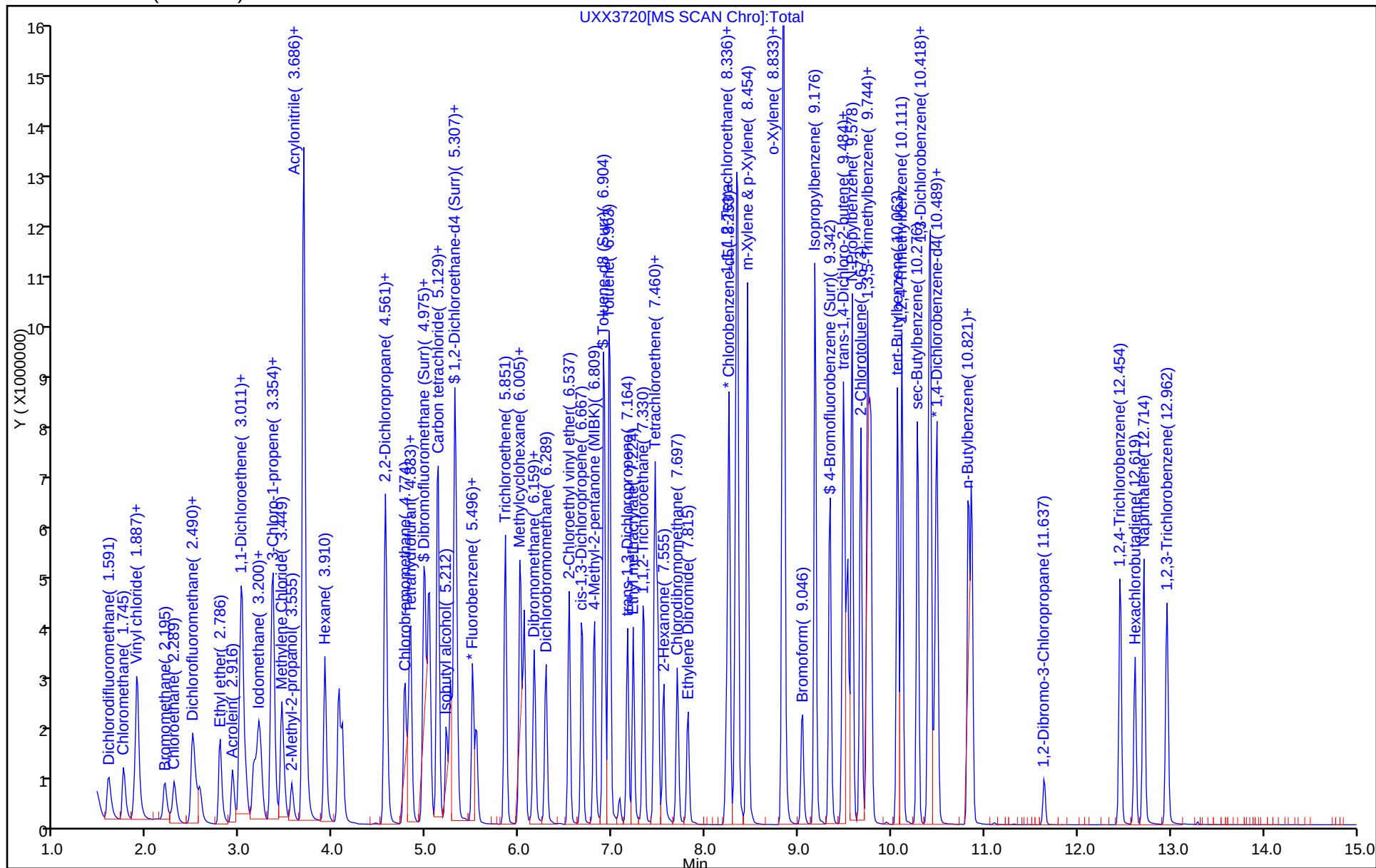
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3721.D
 Lims ID: STD8260 L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 10-Dec-2015 14:17:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050067-003
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 11-Dec-2015 08:28:54 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.545	5.544	0.001	99	1890860	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.231	8.230	0.001	82	1406452	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.467	10.467	0.000	92	746668	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.977	4.976	0.001	95	883317	20.0	19.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.261	5.260	0.001	0	975046	20.0	19.3	
\$ 6 Toluene-d8 (Surr)	98	6.906	6.905	0.001	92	3551306	20.0	20.7	
\$ 7 4-Bromofluorobenzene (Surr	95	9.331	9.331	0.000	96	1203540	20.0	20.4	
9 Dichlorodifluoromethane	85	1.593	1.592	0.001	100	867391	20.0	19.6	
10 Chloromethane	50	1.747	1.746	0.001	100	875135	20.0	18.4	
11 Vinyl chloride	62	1.877	1.864	0.013	99	851059	20.0	18.4	
12 Butadiene	54	1.900	1.888	0.012	96	809978	20.0	19.1	
13 Bromomethane	94	2.196	2.196	0.000	89	444121	20.0	18.3	
14 Chloroethane	64	2.291	2.290	0.001	99	557292	20.0	18.3	
15 Dichlorofluoromethane	67	2.492	2.480	0.012	97	1165746	20.0	18.3	
16 Trichlorofluoromethane	101	2.516	2.515	0.001	99	679778	20.0	19.5	
17 Ethyl ether	59	2.788	2.787	0.001	86	677217	20.0	18.5	
18 Acrolein	56	2.918	2.917	0.001	100	646438	100.0	96.9	
19 1,1-Dichloroethene	96	3.013	3.012	0.001	96	818988	20.0	19.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.024	3.024	0.000	88	792158	20.0	19.1	
21 Acetone	43	3.060	3.059	0.001	100	514539	40.0	40.5	
22 Iodomethane	142	3.155	3.154	0.001	97	1499396	20.0	19.2	
24 Carbon disulfide	76	3.214	3.213	0.001	100	2129500	20.0	20.1	
26 3-Chloro-1-propene	76	3.344	3.332	0.012	90	494193	20.0	20.3	
27 Methyl acetate	43	3.356	3.355	0.001	97	2770705	100.0	96.2	
28 Methylene Chloride	84	3.450	3.450	0.000	85	879778	20.0	19.8	
29 2-Methyl-2-propanol	59	3.557	3.556	0.001	93	491822	200.0	192.4	
31 Acrylonitrile	53	3.687	3.687	0.000	99	2929321	200.0	197.4	
32 Methyl tert-butyl ether	73	3.687	3.687	0.000	90	2402461	20.0	20.3	
30 trans-1,2-Dichloroethene	96	3.687	3.687	0.000	92	926321	20.0	19.4	
33 Hexane	86	3.912	3.911	0.001	90	208521	20.0	20.7	
34 1,1-Dichloroethane	63	4.066	4.065	0.001	96	1414071	20.0	19.4	
35 Vinyl acetate	43	4.101	4.101	0.000	97	1270008	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.563	4.562	0.001	80	986213	20.0	19.5	
39 2,2-Dichloropropane	77	4.563	4.562	0.001	60	737813	20.0	20.2	
41 2-Butanone (MEK)	43	4.575	4.574	0.001	97	705685	40.0	39.3	
45 Chlorobromomethane	128	4.776	4.775	0.001	82	548679	20.0	19.5	
46 Tetrahydrofuran	42	4.811	4.811	0.000	95	415868	40.0	40.8	
47 Chloroform	83	4.835	4.834	0.001	93	1509839	20.0	19.2	
48 1,1,1-Trichloroethane	97	4.989	4.988	0.001	98	1142851	20.0	19.9	
49 Cyclohexane	56	5.036	5.035	0.001	85	1159661	20.0	20.0	
50 1,1-Dichloropropene	75	5.131	5.130	0.001	95	1065823	20.0	19.9	
51 Carbon tetrachloride	117	5.131	5.130	0.001	95	1050775	20.0	20.4	
52 Isobutyl alcohol	41	5.214	5.213	0.001	93	559322	500.0	485.8	
53 Benzene	78	5.308	5.308	0.000	94	3635905	20.0	19.5	
54 1,2-Dichloroethane	62	5.332	5.331	0.001	98	1180434	20.0	19.3	
56 n-Heptane	100	5.498	5.497	0.001	87	168863	20.0	20.2	
58 Trichloroethene	130	5.853	5.852	0.001	93	1112187	20.0	19.5	
60 Methylcyclohexane	83	6.006	6.018	-0.012	85	1170379	20.0	20.1	
61 1,2-Dichloropropane	63	6.054	6.053	0.001	95	759608	20.0	19.5	
64 1,4-Dioxane	88	6.172	6.160	0.012	88	178354	400.0	408.6	
63 Dibromomethane	93	6.160	6.160	0.000	93	528746	20.0	19.6	
65 Dichlorobromomethane	83	6.290	6.290	0.000	99	1064371	20.0	20.7	
67 2-Chloroethyl vinyl ether	63	6.539	6.538	0.001	94	999859	40.0	43.8	
68 cis-1,3-Dichloropropene	75	6.669	6.668	0.001	96	1201304	20.0	21.7	
69 4-Methyl-2-pentanone (MIBK)	43	6.811	6.810	0.001	94	1354356	40.0	41.8	
70 Toluene	91	6.965	6.964	0.001	98	4015204	20.0	20.3	
71 trans-1,3-Dichloropropene	75	7.166	7.165	0.001	91	1044734	20.0	19.7	
72 Ethyl methacrylate	69	7.225	7.225	0.000	87	1020064	20.0	19.7	
73 1,1,2-Trichloroethane	97	7.332	7.331	0.001	89	805604	20.0	19.9	
74 Tetrachloroethene	164	7.462	7.461	0.001	94	938555	20.0	19.2	
75 1,3-Dichloropropane	76	7.485	7.485	0.000	87	1333151	20.0	19.7	
76 2-Hexanone	43	7.556	7.556	0.000	94	964575	40.0	43.2	
78 Chlorodibromomethane	129	7.698	7.698	0.000	89	872786	20.0	21.5	
80 Ethylene Dibromide	107	7.817	7.816	0.001	98	832766	20.0	20.1	
82 Chlorobenzene	112	8.255	8.254	0.001	98	2774732	20.0	19.8	
83 1,1,1,2-Tetrachloroethane	131	8.326	8.325	0.001	93	929205	20.0	20.9	
84 Ethylbenzene	106	8.349	8.349	0.000	97	1420790	20.0	20.6	
85 m-Xylene & p-Xylene	106	8.456	8.455	0.001	99	1776982	20.0	20.7	
86 o-Xylene	106	8.834	8.834	0.000	95	1658858	20.0	20.8	
87 Styrene	104	8.846	8.846	0.000	94	2998488	20.0	21.7	
88 Bromoform	173	9.036	9.035	0.001	98	629613	20.0	19.3	
89 Isopropylbenzene	105	9.178	9.177	0.001	94	4056178	20.0	20.9	
92 1,1,2,2-Tetrachloroethane	83	9.473	9.473	0.000	96	938772	20.0	19.7	
93 Bromobenzene	156	9.497	9.496	0.001	84	1286915	20.0	19.8	
94 1,2,3-Trichloropropane	110	9.521	9.520	0.001	86	364387	20.0	19.6	
95 trans-1,4-Dichloro-2-buten	53	9.533	9.532	0.001	76	259127	20.0	21.8	
96 N-Propylbenzene	120	9.580	9.579	0.001	98	1124754	20.0	20.4	
97 2-Chlorotoluene	126	9.675	9.674	0.001	98	1013652	20.0	19.8	
98 1,3,5-Trimethylbenzene	105	9.746	9.745	0.001	93	3078296	20.0	20.9	
99 4-Chlorotoluene	126	9.781	9.780	0.001	95	1101268	20.0	20.0	
100 tert-Butylbenzene	119	10.065	10.064	0.001	90	2564053	20.0	20.6	
102 1,2,4-Trimethylbenzene	105	10.112	10.112	0.000	93	3196586	20.0	21.0	
103 sec-Butylbenzene	105	10.278	10.277	0.001	93	3204801	20.0	20.5	
104 1,3-Dichlorobenzene	146	10.396	10.408	-0.012	97	2074624	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Isopropyltoluene	119	10.420	10.419	0.001	97	2984799	20.0	21.1	
106 1,4-Dichlorobenzene	146	10.491	10.490	0.001	97	2163792	20.0	19.2	
109 n-Butylbenzene	91	10.822	10.822	0.000	96	2007260	20.0	21.0	
110 1,2-Dichlorobenzene	146	10.858	10.857	0.001	99	1959007	20.0	19.4	
111 1,2-Dibromo-3-Chloropropan	157	11.639	11.638	0.001	93	181201	20.0	21.5	
113 1,2,4-Trichlorobenzene	180	12.455	12.455	0.000	93	1230119	20.0	20.7	
114 Hexachlorobutadiene	225	12.621	12.620	0.001	90	488863	20.0	19.6	
115 Naphthalene	128	12.716	12.715	0.001	100	3064192	20.0	21.3	
116 1,2,3-Trichlorobenzene	180	12.964	12.963	0.001	98	1242624	20.0	20.8	
S 128 1,2-Dichloroethene, Total	96				0		40.0	38.9	
S 129 1,3-Dichloropropene, Total	75				0		40.0	41.4	
S 130 Xylenes, Total	106				0		40.0	41.5	
S 131 Trihalomethanes, Total	1				0		80.0	80.7	

Reagents:

VMRPRIMW_00160	Amount Added: 16.00	Units: uL
VMRGAS_00129	Amount Added: 16.00	Units: uL
vm50ss_00223	Amount Added: 16.00	Units: uL
VMAROLISTDW_00128	Amount Added: 16.00	Units: uL
VM50IS_00052	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3721.D

Injection Date: 10-Dec-2015 14:17:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STD8260 L5

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

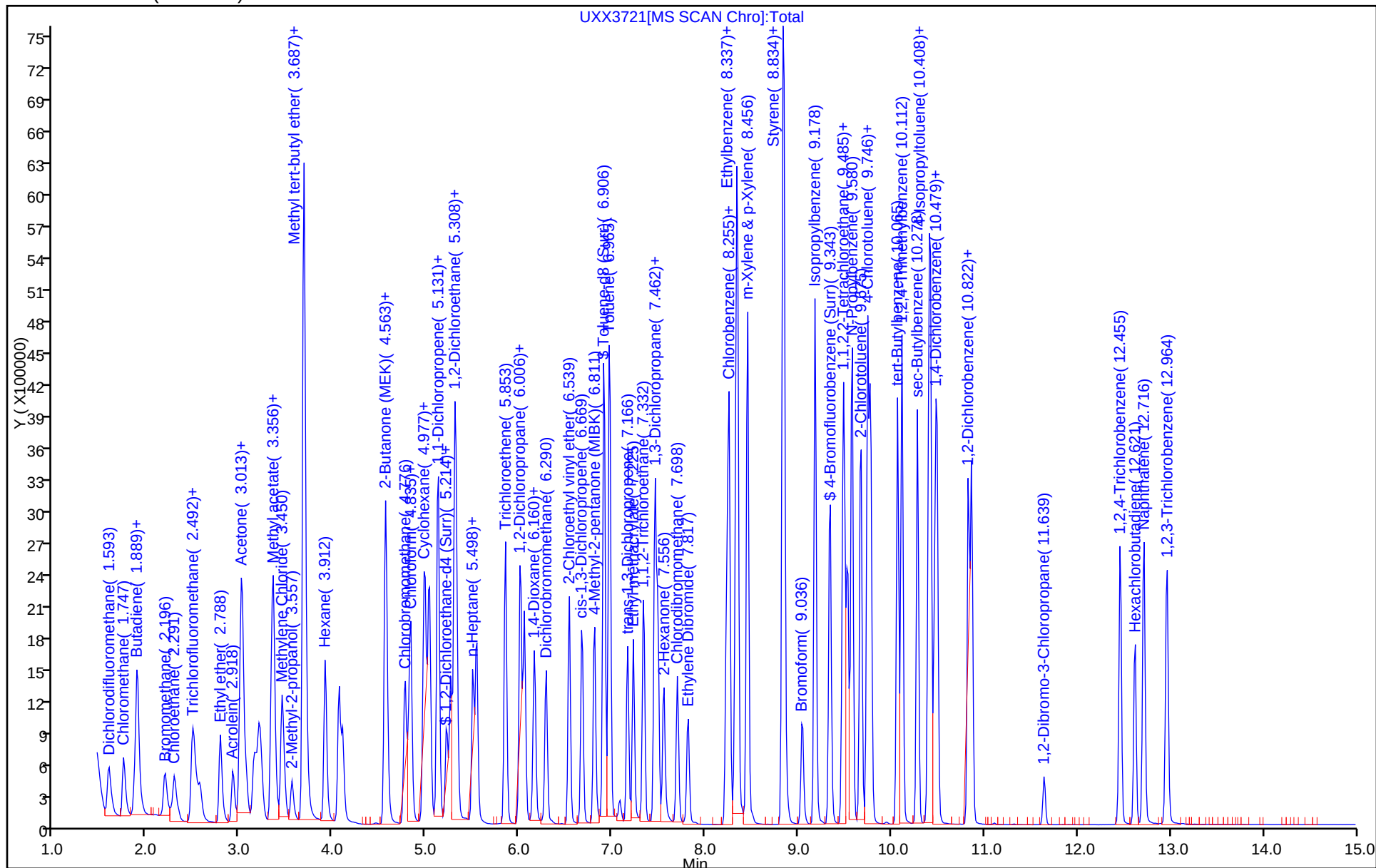
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3722.D
 Lims ID: STD8260 L4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 10-Dec-2015 14:38:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050067-004
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 11-Dec-2015 08:28:57 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.544	5.544	0.000	99	1854642	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.230	8.230	0.000	82	1391112	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.467	10.467	0.000	92	746798	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.976	4.976	0.000	94	434750	10.0	9.91	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.260	5.260	0.000	0	486390	10.0	9.81	
\$ 6 Toluene-d8 (Surr)	98	6.905	6.905	0.000	92	1684770	10.0	9.95	
\$ 7 4-Bromofluorobenzene (Surr	95	9.331	9.331	0.000	96	598233	10.0	10.3	
9 Dichlorodifluoromethane	85	1.592	1.592	0.000	99	417565	10.0	9.64	
10 Chloromethane	50	1.746	1.746	0.000	100	454066	10.0	9.72	
11 Vinyl chloride	62	1.864	1.864	0.000	98	443675	10.0	9.80	
12 Butadiene	54	1.888	1.888	0.000	96	390577	10.0	9.41	
13 Bromomethane	94	2.196	2.196	0.000	89	228976	10.0	9.62	
14 Chloroethane	64	2.290	2.290	0.000	99	286753	10.0	9.62	
15 Dichlorofluoromethane	67	2.480	2.480	0.000	98	617042	10.0	9.85	
16 Trichlorofluoromethane	101	2.515	2.515	0.000	98	328091	10.0	9.61	
17 Ethyl ether	59	2.787	2.787	0.000	87	351429	10.0	9.78	
18 Acrolein	56	2.917	2.917	0.000	99	337540	50.0	51.6	
19 1,1-Dichloroethene	96	3.012	3.012	0.000	97	412459	10.0	9.79	
20 1,1,2-Trichloro-1,2,2-trif	151	3.024	3.024	0.000	86	398649	10.0	9.80	
21 Acetone	43	3.059	3.059	0.000	100	277341	20.0	21.4	
22 Iodomethane	142	3.154	3.154	0.000	97	773261	10.0	10.1	
24 Carbon disulfide	76	3.213	3.213	0.000	99	1054964	10.0	10.2	
26 3-Chloro-1-propene	76	3.332	3.332	0.000	89	242841	10.0	10.2	
27 Methyl acetate	43	3.355	3.355	0.000	96	1400750	50.0	49.6	
28 Methylene Chloride	84	3.450	3.450	0.000	84	477291	10.0	10.5	
29 2-Methyl-2-propanol	59	3.556	3.556	0.000	92	262510	100.0	104.7	
31 Acrylonitrile	53	3.687	3.687	0.000	99	1490666	100.0	102.4	
32 Methyl tert-butyl ether	73	3.687	3.687	0.000	85	1177218	10.0	10.2	
30 trans-1,2-Dichloroethene	96	3.687	3.687	0.000	60	473672	10.0	10.1	
33 Hexane	86	3.911	3.911	0.000	91	96707	10.0	9.77	
34 1,1-Dichloroethane	63	4.065	4.065	0.000	96	714653	10.0	9.97	
35 Vinyl acetate	43	4.101	4.101	0.000	97	609973	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.562	4.562	0.000	80	502539	10.0	10.1	
39 2,2-Dichloropropane	77	4.562	4.562	0.000	60	364361	10.0	10.1	
41 2-Butanone (MEK)	43	4.574	4.574	0.000	98	357783	20.0	20.3	
45 Chlorobromomethane	128	4.775	4.775	0.000	82	276864	10.0	10.0	
46 Tetrahydrofuran	42	4.811	4.811	0.000	95	207680	20.0	20.8	
47 Chloroform	83	4.834	4.834	0.000	93	764060	10.0	9.92	
48 1,1,1-Trichloroethane	97	4.988	4.988	0.000	97	580709	10.0	10.3	
49 Cyclohexane	56	5.035	5.035	0.000	85	566781	10.0	9.97	
50 1,1-Dichloropropene	75	5.130	5.130	0.000	94	533637	10.0	10.1	
51 Carbon tetrachloride	117	5.130	5.130	0.000	94	509482	10.0	10.1	
52 Isobutyl alcohol	41	5.213	5.213	0.000	92	289042	250.0	253.8	
53 Benzene	78	5.308	5.308	0.000	94	1820133	10.0	9.97	
54 1,2-Dichloroethane	62	5.331	5.331	0.000	98	604251	10.0	10.1	
56 n-Heptane	100	5.497	5.497	0.000	85	77971	10.0	9.50	
58 Trichloroethene	130	5.852	5.852	0.000	93	562316	10.0	10.1	
60 Methylcyclohexane	83	6.018	6.018	0.000	84	565389	10.0	9.91	
61 1,2-Dichloropropane	63	6.053	6.053	0.000	95	384140	10.0	10.1	
64 1,4-Dioxane	88	6.160	6.160	0.000	87	98059	200.0	229.1	
63 Dibromomethane	93	6.160	6.160	0.000	91	268469	10.0	10.2	
65 Dichlorobromomethane	83	6.290	6.290	0.000	99	522700	10.0	10.4	
67 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	94	485261	20.0	21.7	
68 cis-1,3-Dichloropropene	75	6.668	6.668	0.000	96	582690	10.0	10.8	
69 4-Methyl-2-pentanone (MIBK)	43	6.810	6.810	0.000	94	674778	20.0	21.2	
70 Toluene	91	6.964	6.964	0.000	99	1999144	10.0	10.2	
71 trans-1,3-Dichloropropene	75	7.165	7.165	0.000	92	481311	10.0	9.44	
72 Ethyl methacrylate	69	7.225	7.225	0.000	87	480431	10.0	9.64	
73 1,1,2-Trichloroethane	97	7.331	7.331	0.000	91	413391	10.0	10.3	
74 Tetrachloroethene	164	7.461	7.461	0.000	94	484826	10.0	10.0	
75 1,3-Dichloropropane	76	7.485	7.485	0.000	89	683359	10.0	10.2	
76 2-Hexanone	43	7.556	7.556	0.000	94	478241	20.0	21.6	
78 Chlorodibromomethane	129	7.698	7.698	0.000	89	424631	10.0	10.6	
80 Ethylene Dibromide	107	7.816	7.816	0.000	98	432157	10.0	10.5	
82 Chlorobenzene	112	8.254	8.254	0.000	98	1418169	10.0	10.2	
83 1,1,1,2-Tetrachloroethane	131	8.325	8.325	0.000	93	456559	10.0	10.4	
84 Ethylbenzene	106	8.349	8.349	0.000	97	708907	10.0	10.4	
85 m-Xylene & p-Xylene	106	8.455	8.455	0.000	99	895405	10.0	10.6	
86 o-Xylene	106	8.834	8.834	0.000	95	842321	10.0	10.7	
87 Styrene	104	8.846	8.846	0.000	94	1470427	10.0	10.8	
88 Bromoform	173	9.035	9.035	0.000	98	290756	10.0	9.29	
89 Isopropylbenzene	105	9.177	9.177	0.000	94	2059098	10.0	10.7	
92 1,1,2,2-Tetrachloroethane	83	9.473	9.473	0.000	97	487378	10.0	10.2	
93 Bromobenzene	156	9.496	9.496	0.000	83	664704	10.0	10.2	
94 1,2,3-Trichloropropane	110	9.520	9.520	0.000	86	190345	10.0	10.2	
95 trans-1,4-Dichloro-2-buten	53	9.532	9.532	0.000	77	124450	10.0	10.4	
96 N-Propylbenzene	120	9.579	9.579	0.000	98	586774	10.0	10.6	
97 2-Chlorotoluene	126	9.674	9.674	0.000	98	524895	10.0	10.3	
98 1,3,5-Trimethylbenzene	105	9.745	9.745	0.000	94	1578707	10.0	10.7	
99 4-Chlorotoluene	126	9.780	9.780	0.000	96	572819	10.0	10.4	
100 tert-Butylbenzene	119	10.064	10.064	0.000	90	1315656	10.0	10.6	
102 1,2,4-Trimethylbenzene	105	10.112	10.112	0.000	93	1641805	10.0	10.8	
103 sec-Butylbenzene	105	10.277	10.277	0.000	93	1635392	10.0	10.5	
104 1,3-Dichlorobenzene	146	10.408	10.408	0.000	96	1075193	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Isopropyltoluene	119	10.419	10.419	0.000	97	1514193	10.0	10.7	
106 1,4-Dichlorobenzene	146	10.490	10.490	0.000	97	1130332	10.0	10.0	
109 n-Butylbenzene	91	10.822	10.822	0.000	96	1000362	10.0	10.5	
110 1,2-Dichlorobenzene	146	10.857	10.857	0.000	99	1030651	10.0	10.2	
111 1,2-Dibromo-3-Chloropropan	157	11.638	11.638	0.000	92	88892	10.0	10.6	
113 1,2,4-Trichlorobenzene	180	12.455	12.455	0.000	93	628289	10.0	10.6	
114 Hexachlorobutadiene	225	12.620	12.620	0.000	90	259957	10.0	10.4	
115 Naphthalene	128	12.715	12.715	0.000	100	1498581	10.0	10.6	
116 1,2,3-Trichlorobenzene	180	12.963	12.963	0.000	98	655294	10.0	11.0	
S 128 1,2-Dichloroethene, Total	96				0		20.0	20.2	
S 129 1,3-Dichloropropene, Total	75				0		20.0	20.2	
S 130 Xylenes, Total	106				0		20.0	21.2	
S 131 Trihalomethanes, Total	1				0		40.0	40.1	

Reagents:

VMRPRIMW_00160	Amount Added: 8.00	Units: uL
VMRGAS_00129	Amount Added: 8.00	Units: uL
vm50ss_00223	Amount Added: 8.00	Units: uL
VMAROLISTDW_00128	Amount Added: 8.00	Units: uL
VM50IS_00052	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3722.D

Injection Date: 10-Dec-2015 14:38:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STD8260 L4

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

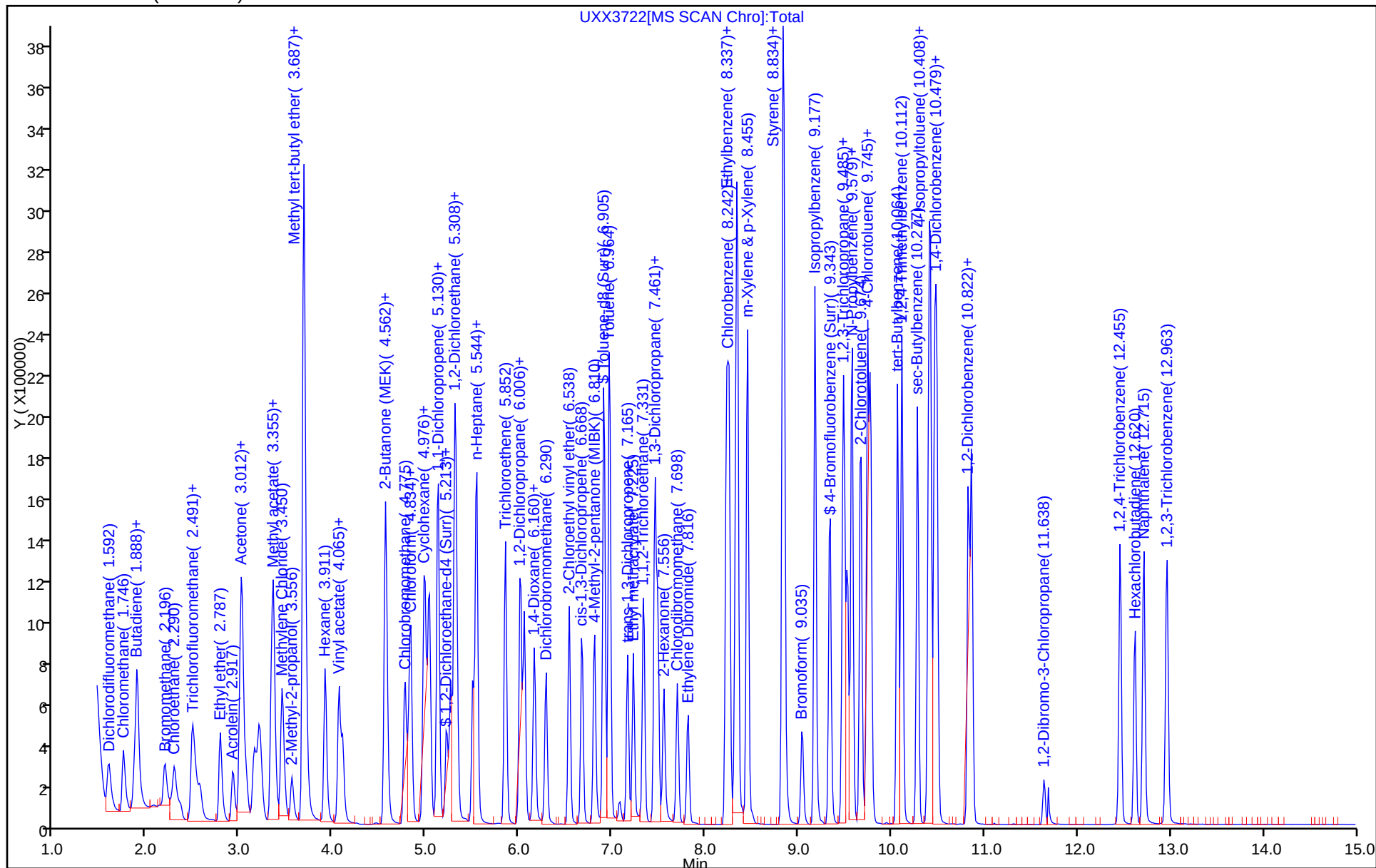
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3723.D
 Lims ID: STD8260 L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Dec-2015 15:00:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050067-005
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 11-Dec-2015 08:29:01 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.544	-0.002	100	1751332	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.230	-0.002	83	1333105	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.464	10.467	-0.003	92	712971	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.974	4.976	-0.002	95	210299	5.00	5.08	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.269	5.260	0.009	0	235059	5.00	5.02	
\$ 6 Toluene-d8 (Surr)	98	6.914	6.905	0.009	92	803472	5.00	4.95	
\$ 7 4-Bromofluorobenzene (Surr	95	9.340	9.331	0.009	96	284559	5.00	5.09	
9 Dichlorodifluoromethane	85	1.589	1.592	-0.003	100	218383	5.00	5.34	
10 Chloromethane	50	1.743	1.746	-0.003	99	230341	5.00	5.22	
11 Vinyl chloride	62	1.862	1.864	-0.002	98	224143	5.00	5.24	
12 Butadiene	54	1.897	1.888	0.009	96	199861	5.00	5.10	
13 Bromomethane	94	2.193	2.196	-0.003	88	114212	5.00	5.08	
14 Chloroethane	64	2.299	2.290	0.009	99	143110	5.00	5.09	
15 Dichlorofluoromethane	67	2.489	2.480	0.009	98	312717	5.00	5.29	
16 Trichlorofluoromethane	101	2.524	2.515	0.009	98	173525	5.00	5.38	
17 Ethyl ether	59	2.785	2.787	-0.002	87	166029	5.00	4.89	
18 Acrolein	56	2.927	2.917	0.010	100	153228	25.0	24.8	
19 1,1-Dichloroethene	96	3.009	3.012	-0.003	97	204471	5.00	5.14	
20 1,1,2-Trichloro-1,2,2-trif	151	3.021	3.024	-0.003	88	203359	5.00	5.30	
21 Acetone	43	3.069	3.059	0.010	100	118466	10.0	8.64	
22 Iodomethane	142	3.151	3.154	-0.003	97	372591	5.00	5.14	
24 Carbon disulfide	76	3.211	3.213	-0.002	99	491641	5.00	5.02	
26 3-Chloro-1-propene	76	3.341	3.332	0.009	88	115071	5.00	5.11	
27 Methyl acetate	43	3.364	3.355	0.009	96	649226	25.0	24.3	
28 Methylene Chloride	84	3.447	3.450	-0.003	84	240256	5.00	5.12	
29 2-Methyl-2-propanol	59	3.554	3.556	-0.002	92	113052	50.0	47.8	
31 Acrylonitrile	53	3.684	3.687	-0.003	99	677544	50.0	49.3	
32 Methyl tert-butyl ether	73	3.684	3.687	-0.003	87	542349	5.00	4.96	
30 trans-1,2-Dichloroethene	96	3.696	3.687	0.009	92	222701	5.00	5.03	
33 Hexane	86	3.909	3.911	-0.002	93	49725	5.00	5.32	
34 1,1-Dichloroethane	63	4.062	4.065	-0.003	96	339712	5.00	5.02	
35 Vinyl acetate	43	4.098	4.101	-0.003	97	277047	5.00	4.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.559	4.562	-0.003	81	236162	5.00	5.04	
39 2,2-Dichloropropane	77	4.559	4.562	-0.003	61	169317	5.00	4.99	
41 2-Butanone (MEK)	43	4.583	4.574	0.009	98	165696	10.0	9.96	
45 Chlorobromomethane	128	4.772	4.775	-0.003	83	131241	5.00	5.04	
46 Tetrahydrofuran	42	4.808	4.811	-0.003	94	91796	10.0	9.72	
47 Chloroform	83	4.832	4.834	-0.002	93	362726	5.00	4.99	
48 1,1,1-Trichloroethane	97	4.985	4.988	-0.003	98	268307	5.00	5.03	
49 Cyclohexane	56	5.033	5.035	-0.002	86	277234	5.00	5.17	
50 1,1-Dichloropropene	75	5.127	5.130	-0.003	93	246690	5.00	4.96	
51 Carbon tetrachloride	117	5.127	5.130	-0.003	94	241027	5.00	5.05	
52 Isobutyl alcohol	41	5.222	5.213	0.009	91	138412	125.0	126.8	
53 Benzene	78	5.305	5.308	-0.003	94	854150	5.00	4.96	
54 1,2-Dichloroethane	62	5.329	5.331	-0.002	98	287360	5.00	5.07	
56 n-Heptane	100	5.506	5.497	0.009	83	40858	5.00	5.27	
58 Trichloroethene	130	5.849	5.852	-0.003	93	265553	5.00	5.03	
60 Methylcyclohexane	83	6.015	6.018	-0.003	83	277608	5.00	5.15	
61 1,2-Dichloropropane	63	6.050	6.053	-0.003	95	177244	5.00	4.91	
64 1,4-Dioxane	88	6.169	6.160	0.009	87	43847	100.0	108.5	
63 Dibromomethane	93	6.157	6.160	-0.003	85	126493	5.00	5.07	
65 Dichlorobromomethane	83	6.287	6.290	-0.003	99	235991	5.00	4.95	
67 2-Chloroethyl vinyl ether	63	6.536	6.538	-0.002	95	206268	10.0	9.75	
68 cis-1,3-Dichloropropene	75	6.678	6.668	0.010	95	247757	5.00	4.84	
69 4-Methyl-2-pentanone (MIBK)	43	6.808	6.810	-0.002	94	298077	10.0	9.94	
70 Toluene	91	6.973	6.964	0.009	99	911170	5.00	4.86	
71 trans-1,3-Dichloropropene	75	7.163	7.165	-0.002	91	205323	5.00	4.48	
72 Ethyl methacrylate	69	7.222	7.225	-0.003	87	202237	5.00	4.52	
73 1,1,2-Trichloroethane	97	7.340	7.331	0.009	90	189907	5.00	4.95	
74 Tetrachloroethene	164	7.459	7.461	-0.003	95	232257	5.00	5.00	
75 1,3-Dichloropropane	76	7.494	7.485	0.009	88	312411	5.00	4.87	
76 2-Hexanone	43	7.553	7.556	-0.003	94	202178	10.0	9.55	
78 Chlorodibromomethane	129	7.695	7.698	-0.003	89	183948	5.00	4.78	
80 Ethylene Dibromide	107	7.813	7.816	-0.003	100	189941	5.00	4.83	
82 Chlorobenzene	112	8.251	8.254	-0.003	97	642104	5.00	4.82	
83 1,1,1,2-Tetrachloroethane	131	8.322	8.325	-0.003	91	208809	5.00	4.95	
84 Ethylbenzene	106	8.346	8.349	-0.003	97	316093	5.00	4.83	
85 m-Xylene & p-Xylene	106	8.452	8.455	-0.003	99	412761	5.00	5.08	
86 o-Xylene	106	8.831	8.834	-0.003	95	374576	5.00	4.95	
87 Styrene	104	8.843	8.846	-0.003	94	642712	5.00	4.90	
88 Bromoform	173	9.044	9.035	0.009	98	122514	5.00	4.36	
89 Isopropylbenzene	105	9.174	9.177	-0.003	95	915563	5.00	4.98	
92 1,1,2,2-Tetrachloroethane	83	9.470	9.473	-0.003	97	225867	5.00	4.97	
93 Bromobenzene	156	9.494	9.496	-0.002	83	307443	5.00	4.94	
94 1,2,3-Trichloropropane	110	9.529	9.520	0.009	85	88783	5.00	5.00	
95 trans-1,4-Dichloro-2-buten	53	9.529	9.532	-0.003	71	53961	5.00	4.74	
96 N-Propylbenzene	120	9.577	9.579	-0.002	97	267133	5.00	5.08	
97 2-Chlorotoluene	126	9.671	9.674	-0.003	98	241568	5.00	4.95	
98 1,3,5-Trimethylbenzene	105	9.742	9.745	-0.003	94	701851	5.00	4.99	
99 4-Chlorotoluene	126	9.778	9.780	-0.002	95	267207	5.00	5.07	
100 tert-Butylbenzene	119	10.062	10.064	-0.002	90	594247	5.00	4.99	
102 1,2,4-Trimethylbenzene	105	10.109	10.112	-0.003	93	734023	5.00	5.04	
103 sec-Butylbenzene	105	10.275	10.277	-0.002	93	753315	5.00	5.05	
104 1,3-Dichlorobenzene	146	10.405	10.408	-0.003	96	509636	5.00	4.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Isopropyltoluene	119	10.417	10.419	-0.002	97	679447	5.00	5.03	
106 1,4-Dichlorobenzene	146	10.488	10.490	-0.002	98	530296	5.00	4.92	
109 n-Butylbenzene	91	10.831	10.822	0.009	96	450908	5.00	4.95	
110 1,2-Dichlorobenzene	146	10.866	10.857	0.009	99	479397	5.00	4.96	
111 1,2-Dibromo-3-Chloropropan	157	11.647	11.638	0.009	91	39587	5.00	4.93	
113 1,2,4-Trichlorobenzene	180	12.464	12.455	0.009	92	293330	5.00	5.17	
114 Hexachlorobutadiene	225	12.618	12.620	-0.002	90	124885	5.00	5.24	
115 Naphthalene	128	12.712	12.715	-0.003	100	632084	5.00	4.87	
116 1,2,3-Trichlorobenzene	180	12.961	12.963	-0.002	98	305897	5.00	5.36	
S 128 1,2-Dichloroethene, Total	96				0		10.0	10.1	
S 129 1,3-Dichloropropene, Total	75				0		10.0	9.33	
S 130 Xylenes, Total	106				0		10.0	10.0	
S 131 Trihalomethanes, Total	1				0		20.0	19.1	

Reagents:

VMRPRIMW_00160	Amount Added: 4.00	Units: uL
VMRGAS_00129	Amount Added: 4.00	Units: uL
vm50ss_00223	Amount Added: 4.00	Units: uL
VMAROLISTDW_00128	Amount Added: 4.00	Units: uL
VM50IS_00052	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3723.D

Injection Date: 10-Dec-2015 15:00:30

Instrument ID: A3UX10

Lims ID: STD8260 L3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_10

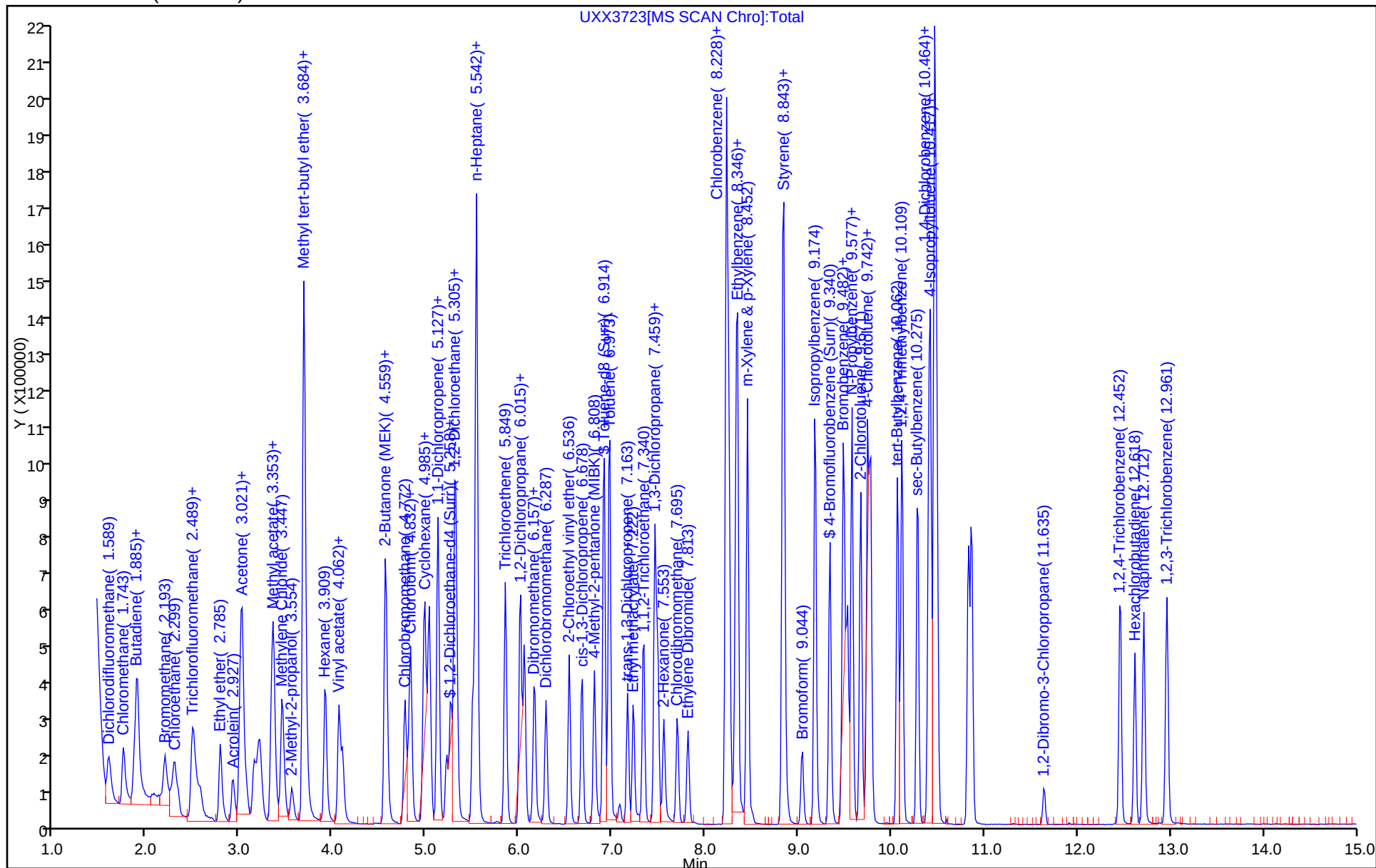
Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)

Operator ID: 1904

Worklist Smp#: 5

ALS Bottle#: 4



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3724.D
 Lims ID: STD8260 L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Dec-2015 15:23:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050067-006
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 11-Dec-2015 08:29:04 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.543	5.544	-0.001	100	1675826	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.230	8.230	0.000	82	1248692	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.466	10.467	-0.001	92	658181	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.975	4.976	-0.001	94	79326	2.00	2.00	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.259	5.260	-0.001	0	89200	2.00	1.99	
\$ 6 Toluene-d8 (Surr)	98	6.916	6.905	0.011	92	295801	2.00	1.95	
\$ 7 4-Bromofluorobenzene (Surr	95	9.342	9.331	0.011	95	100908	2.00	1.93	
9 Dichlorodifluoromethane	85	1.591	1.592	-0.001	99	78467	2.00	2.01	
10 Chloromethane	50	1.745	1.746	-0.001	98	89620	2.00	2.12	
11 Vinyl chloride	62	1.863	1.864	-0.001	99	85027	2.00	2.08	
12 Butadiene	54	1.899	1.888	0.011	95	77070	2.00	2.05	
13 Bromomethane	94	2.195	2.196	-0.001	90	46861	2.00	2.18	
14 Chloroethane	64	2.289	2.290	-0.001	98	58190	2.00	2.16	
15 Dichlorofluoromethane	67	2.491	2.480	0.011	98	119813	2.00	2.12	
16 Trichlorofluoromethane	101	2.514	2.515	-0.001	97	59206	2.00	1.92	
17 Ethyl ether	59	2.786	2.787	-0.001	87	66075	2.00	2.03	
18 Acrolein	56	2.928	2.917	0.011	98	60373	10.0	10.2	
19 1,1-Dichloroethene	96	3.011	3.012	-0.001	96	75890	2.00	1.99	
20 1,1,2-Trichloro-1,2,2-trif	151	3.023	3.024	-0.001	86	72744	2.00	1.98	
21 Acetone	43	3.070	3.059	0.011	100	63226	4.00	3.98	
22 Iodomethane	142	3.165	3.154	0.011	97	141527	2.00	2.04	
24 Carbon disulfide	76	3.212	3.213	-0.001	100	177261	2.00	1.89	
26 3-Chloro-1-propene	76	3.343	3.332	0.011	88	39630	2.00	1.84	
27 Methyl acetate	43	3.366	3.355	0.011	96	259724	10.0	10.2	
28 Methylene Chloride	84	3.449	3.450	-0.001	84	109632	2.00	1.91	
29 2-Methyl-2-propanol	59	3.556	3.556	0.000	91	49354	20.0	21.8	
31 Acrylonitrile	53	3.686	3.687	-0.001	98	259811	20.0	19.8	
32 Methyl tert-butyl ether	73	3.686	3.687	-0.001	84	199241	2.00	1.90	
30 trans-1,2-Dichloroethene	96	3.686	3.687	-0.001	90	83629	2.00	1.97	
33 Hexane	86	3.911	3.911	0.000	91	18081	2.00	2.02	
34 1,1-Dichloroethane	63	4.064	4.065	-0.001	96	130019	2.00	2.01	
35 Vinyl acetate	43	4.100	4.101	-0.001	98	100947	2.00	1.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.561	4.562	-0.001	80	88911	2.00	1.98	
39 2,2-Dichloropropane	77	4.561	4.562	-0.001	59	59238	2.00	1.83	
41 2-Butanone (MEK)	43	4.585	4.574	0.011	98	58585	4.00	3.68	
45 Chlorobromomethane	128	4.774	4.775	-0.001	83	50049	2.00	2.01	
46 Tetrahydrofuran	42	4.810	4.811	-0.001	95	35028	4.00	3.88	
47 Chloroform	83	4.834	4.834	0.000	92	138270	2.00	1.99	
48 1,1,1-Trichloroethane	97	4.987	4.988	-0.001	98	95979	2.00	1.88	
49 Cyclohexane	56	5.035	5.035	0.000	87	97480	2.00	1.90	
50 1,1-Dichloropropene	75	5.129	5.130	-0.001	94	92350	2.00	1.94	
51 Carbon tetrachloride	117	5.129	5.130	-0.001	90	85898	2.00	1.88	
52 Isobutyl alcohol	41	5.224	5.213	0.011	92	57318	50.0	56.1	
53 Benzene	78	5.307	5.308	-0.001	95	325364	2.00	1.97	
54 1,2-Dichloroethane	62	5.330	5.331	-0.001	98	108406	2.00	2.00	
56 n-Heptane	100	5.508	5.497	0.011	86	14566	2.00	1.96	
58 Trichloroethene	130	5.851	5.852	-0.001	92	99734	2.00	1.97	
60 Methylcyclohexane	83	6.017	6.018	-0.001	83	96624	2.00	1.87	
61 1,2-Dichloropropane	63	6.052	6.053	-0.001	95	69371	2.00	2.01	
64 1,4-Dioxane	88	6.171	6.160	0.011	36	16650	40.0	43.0	
63 Dibromomethane	93	6.159	6.160	-0.001	86	47257	2.00	1.98	
65 Dichlorobromomethane	83	6.289	6.290	-0.001	98	83177	2.00	1.82	
67 2-Chloroethyl vinyl ether	63	6.537	6.538	-0.001	94	70857	4.00	3.50	
68 cis-1,3-Dichloropropene	75	6.679	6.668	0.011	94	82862	2.00	1.69	
69 4-Methyl-2-pentanone (MIBK)	43	6.810	6.810	0.000	94	100909	4.00	3.52	
70 Toluene	91	6.975	6.964	0.011	98	331951	2.00	1.89	
71 trans-1,3-Dichloropropene	75	7.165	7.165	0.000	92	67273	2.00	1.90	
72 Ethyl methacrylate	69	7.224	7.225	-0.001	88	66648	2.00	1.92	
73 1,1,2-Trichloroethane	97	7.330	7.331	-0.001	91	69798	2.00	1.94	
74 Tetrachloroethene	164	7.460	7.461	-0.001	95	86784	2.00	2.00	
75 1,3-Dichloropropane	76	7.484	7.485	-0.001	89	116833	2.00	1.94	
76 2-Hexanone	43	7.555	7.556	-0.001	93	75434	4.00	3.80	
78 Chlorodibromomethane	129	7.697	7.698	-0.001	90	60807	2.00	1.69	
80 Ethylene Dibromide	107	7.815	7.816	-0.001	98	71270	2.00	1.93	
82 Chlorobenzene	112	8.253	8.254	-0.001	98	242854	2.00	1.95	
83 1,1,1,2-Tetrachloroethane	131	8.324	8.325	-0.001	91	73036	2.00	1.85	
84 Ethylbenzene	106	8.348	8.349	-0.001	98	114378	2.00	1.87	
85 m-Xylene & p-Xylene	106	8.454	8.455	-0.001	99	135462	2.00	1.78	
86 o-Xylene	106	8.833	8.834	-0.001	95	129395	2.00	1.83	
87 Styrene	104	8.845	8.846	-0.001	93	210193	2.00	1.71	
88 Bromoform	173	9.034	9.035	-0.001	97	41210	2.00	1.89	
89 Isopropylbenzene	105	9.176	9.177	-0.001	95	306292	2.00	1.78	
92 1,1,2,2-Tetrachloroethane	83	9.472	9.473	-0.001	97	81472	2.00	1.94	
93 Bromobenzene	156	9.496	9.496	0.000	83	110436	2.00	1.92	
94 1,2,3-Trichloropropane	110	9.531	9.520	0.011	87	32641	2.00	1.99	
95 trans-1,4-Dichloro-2-buten	53	9.531	9.532	-0.001	69	18245	2.00	1.74	
96 N-Propylbenzene	120	9.578	9.579	-0.001	98	89885	2.00	1.85	
97 2-Chlorotoluene	126	9.673	9.674	-0.001	98	87845	2.00	1.95	
98 1,3,5-Trimethylbenzene	105	9.744	9.745	-0.001	94	230915	2.00	1.78	
99 4-Chlorotoluene	126	9.780	9.780	0.000	95	93784	2.00	1.93	
100 tert-Butylbenzene	119	10.064	10.064	0.000	90	196711	2.00	1.79	
102 1,2,4-Trimethylbenzene	105	10.111	10.112	-0.001	93	243634	2.00	1.81	
103 sec-Butylbenzene	105	10.277	10.277	0.000	93	249269	2.00	1.81	
104 1,3-Dichlorobenzene	146	10.407	10.408	-0.001	97	186852	2.00	1.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Isopropyltoluene	119	10.419	10.419	0.000	96	221836	2.00	1.78	
106 1,4-Dichlorobenzene	146	10.490	10.490	0.000	96	198192	2.00	1.99	
109 n-Butylbenzene	91	10.821	10.822	-0.001	96	153516	2.00	1.82	
110 1,2-Dichlorobenzene	146	10.856	10.857	-0.001	99	176507	2.00	1.98	
111 1,2-Dibromo-3-Chloropropan	157	11.649	11.638	0.011	92	14130	2.00	1.90	
113 1,2,4-Trichlorobenzene	180	12.454	12.455	-0.001	94	93336	2.00	1.78	
114 Hexachlorobutadiene	225	12.619	12.620	-0.001	90	40574	2.00	1.84	
115 Naphthalene	128	12.714	12.715	-0.001	100	178654	2.00	1.73	
116 1,2,3-Trichlorobenzene	180	12.963	12.963	0.000	98	92934	2.00	1.76	
S 128 1,2-Dichloroethene, Total	96				0		4.00	3.96	
S 129 1,3-Dichloropropene, Total	75				0		4.00	3.59	
S 130 Xylenes, Total	106				0		4.00	3.61	
S 131 Trihalomethanes, Total	1				0		8.00	7.38	

Reagents:

VMRPRIMW_00160	Amount Added: 1.60	Units: uL
VMRGAS_00129	Amount Added: 1.60	Units: uL
vm50ss_00223	Amount Added: 1.60	Units: uL
VMAROLISTDW_00128	Amount Added: 1.60	Units: uL
VM50IS_00052	Amount Added: 1.00	Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3724.D

Injection Date: 10-Dec-2015 15:23:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STD8260 L2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

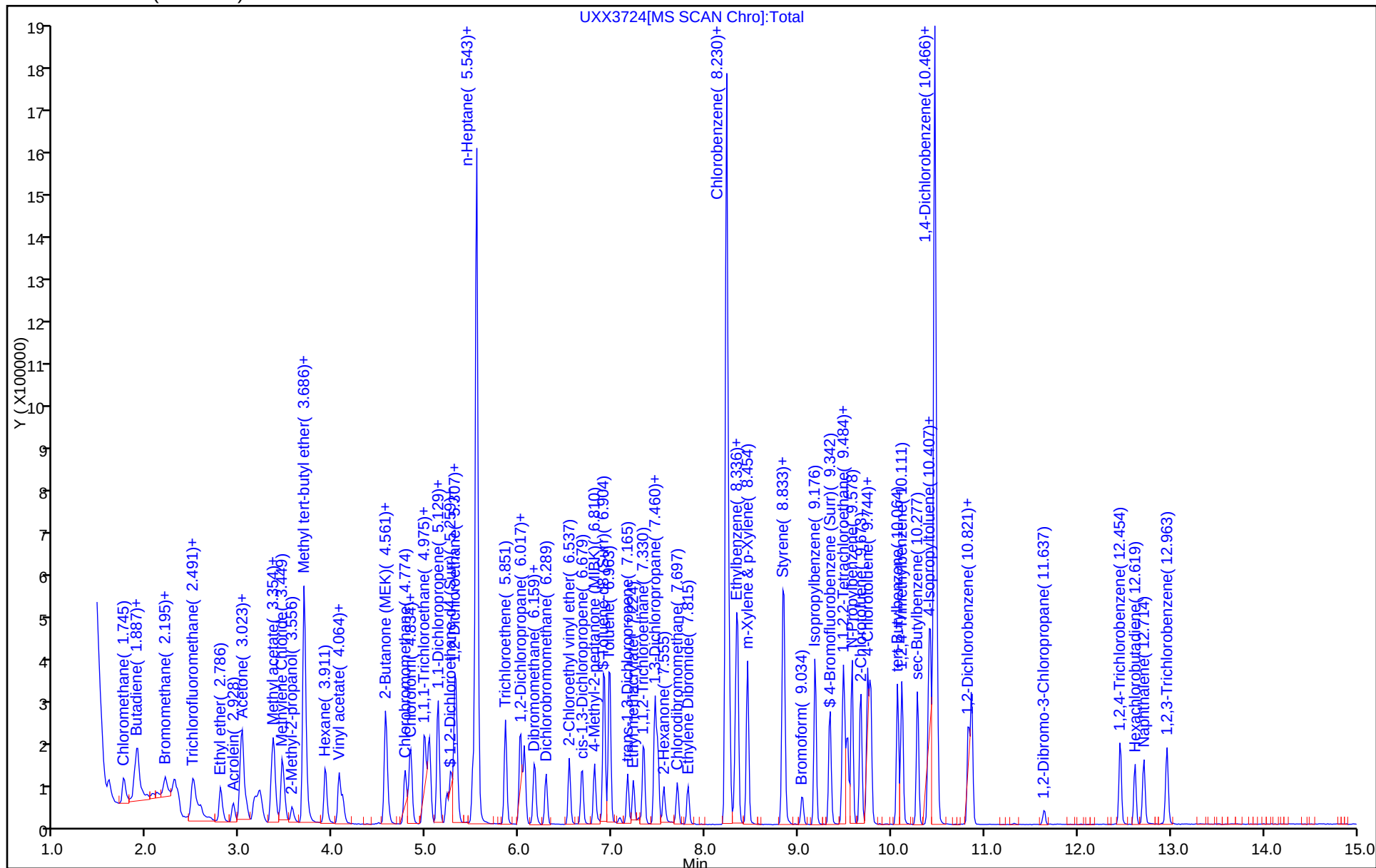
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Lims ID: STD8260 L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Dec-2015 15:45:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050067-007
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 11-Dec-2015 08:29:07 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.543	5.544	-0.002	99	1644035	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.229	8.230	-0.001	82	1256099	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.467	-0.002	92	623178	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.975	4.976	-0.001	94	39423	1.00	1.01	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.270	5.260	0.010	0	47630	1.00	1.08	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.905	0.010	92	139943	1.00	0.9153	
\$ 7 4-Bromofluorobenzene (Surr	95	9.341	9.331	0.010	96	49600	1.00	0.9424	
9 Dichlorodifluoromethane	85	1.590	1.592	-0.002	99	40997	1.00	1.07	
10 Chloromethane	50	1.744	1.746	-0.002	98	47058	1.00	1.14	
11 Vinyl chloride	62	1.863	1.864	-0.002	98	46066	1.00	1.15	
12 Butadiene	54	1.898	1.888	0.010	96	41125	1.00	1.12	
13 Bromomethane	94	2.194	2.196	-0.002	88	25496	1.00	1.21	
14 Chloroethane	64	2.300	2.290	0.010	99	29530	1.00	1.12	
15 Dichlorofluoromethane	67	2.490	2.480	0.010	97	64373	1.00	1.16	
16 Trichlorofluoromethane	101	2.525	2.515	0.010	96	32981	1.00	1.09	
17 Ethyl ether	59	2.785	2.787	-0.002	87	37859	1.00	1.19	
18 Acrolein	56	2.927	2.917	0.010	96	28645	5.00	4.94	
19 1,1-Dichloroethene	96	3.010	3.012	-0.002	97	40179	1.00	1.08	
20 1,1,2-Trichloro-1,2,2-trif	151	3.022	3.024	-0.002	87	38429	1.00	1.07	
21 Acetone	43	3.069	3.059	0.010	99	42594	2.00	2.13	
22 Iodomethane	142	3.164	3.154	0.010	97	72103	1.00	1.06	
24 Carbon disulfide	76	3.211	3.213	-0.002	99	90690	1.00	0.9865	
26 3-Chloro-1-propene	76	3.342	3.332	0.010	88	20236	1.00	0.9568	
27 Methyl acetate	43	3.365	3.355	0.010	96	135322	5.00	5.40	
28 Methylene Chloride	84	3.448	3.450	-0.002	86	73583	1.00	0.9896	
29 2-Methyl-2-propanol	59	3.555	3.556	-0.001	92	22692	10.0	10.2	
31 Acrylonitrile	53	3.685	3.687	-0.002	99	129807	10.0	10.1	
32 Methyl tert-butyl ether	73	3.685	3.687	-0.002	92	99540	1.00	0.9690	
30 trans-1,2-Dichloroethene	96	3.685	3.687	-0.002	94	42968	1.00	1.03	
33 Hexane	86	3.921	3.911	0.010	92	7861	1.00	0.8963	
34 1,1-Dichloroethane	63	4.063	4.065	-0.002	96	66777	1.00	1.05	
35 Vinyl acetate	43	4.099	4.101	-0.002	96	49743	1.00	0.9345	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	4.560	4.562	-0.002	80	44300	1.00	1.01	
39 2,2-Dichloropropane	77	4.560	4.562	-0.002	61	32212	1.00	1.01	
41 2-Butanone (MEK)	43	4.584	4.574	0.010	97	34992	2.00	2.24	
45 Chlorobromomethane	128	4.773	4.775	-0.002	82	25206	1.00	1.03	
46 Tetrahydrofuran	42	4.821	4.811	0.010	94	17513	2.00	1.98	
47 Chloroform	83	4.833	4.834	-0.001	94	73688	1.00	1.08	
48 1,1,1-Trichloroethane	97	4.986	4.988	-0.002	98	50167	1.00	1.00	
49 Cyclohexane	56	5.034	5.035	-0.001	88	50476	1.00	1.00	
50 1,1-Dichloropropene	75	5.128	5.130	-0.002	94	47191	1.00	1.01	
51 Carbon tetrachloride	117	5.128	5.130	-0.002	89	42069	1.00	0.9398	
52 Isobutyl alcohol	41	5.223	5.213	0.010	89	24504	25.0	23.8	
53 Benzene	78	5.306	5.308	-0.002	95	167822	1.00	1.04	
54 1,2-Dichloroethane	62	5.330	5.331	-0.001	97	56123	1.00	1.06	
56 n-Heptane	100	5.507	5.497	0.010	80	6932	1.00	0.9524	
58 Trichloroethene	130	5.850	5.852	-0.002	94	51065	1.00	1.03	
60 Methylcyclohexane	83	6.016	6.018	-0.002	84	50054	1.00	0.9894	
61 1,2-Dichloropropane	63	6.051	6.053	-0.002	92	35238	1.00	1.04	
64 1,4-Dioxane	88	6.170	6.160	0.010	33	6310	20.0	16.6	
63 Dibromomethane	93	6.158	6.160	-0.002	84	23791	1.00	1.02	
65 Dichlorobromomethane	83	6.288	6.290	-0.002	99	42202	1.00	0.9428	
67 2-Chloroethyl vinyl ether	63	6.536	6.538	-0.002	93	33719	2.00	1.70	
68 cis-1,3-Dichloropropene	75	6.678	6.668	0.010	93	41201	1.00	0.8577	
69 4-Methyl-2-pentanone (MIBK)	43	6.809	6.810	-0.001	96	55651	2.00	1.98	
70 Toluene	91	6.974	6.964	0.010	99	168806	1.00	0.9550	
71 trans-1,3-Dichloropropene	75	7.164	7.165	-0.001	92	33286	1.00	1.19	
72 Ethyl methacrylate	69	7.223	7.225	-0.002	86	31072	1.00	1.16	
73 1,1,2-Trichloroethane	97	7.341	7.331	0.010	92	36111	1.00	1.00	
74 Tetrachloroethene	164	7.459	7.461	-0.002	95	45035	1.00	1.03	
75 1,3-Dichloropropane	76	7.495	7.485	0.010	88	62190	1.00	1.03	
76 2-Hexanone	43	7.554	7.556	-0.002	96	33876	2.00	1.70	
78 Chlorodibromomethane	129	7.696	7.698	-0.002	89	32237	1.00	0.8884	
80 Ethylene Dibromide	107	7.814	7.816	-0.002	99	36450	1.00	0.9831	
82 Chlorobenzene	112	8.252	8.254	-0.002	97	128876	1.00	1.03	
83 1,1,1,2-Tetrachloroethane	131	8.323	8.325	-0.002	87	36845	1.00	0.9261	
84 Ethylbenzene	106	8.347	8.349	-0.002	98	59636	1.00	0.9672	
85 m-Xylene & p-Xylene	106	8.453	8.455	-0.002	98	71037	1.00	0.9281	
86 o-Xylene	106	8.832	8.834	-0.002	95	64970	1.00	0.9120	
87 Styrene	104	8.844	8.846	-0.002	94	105143	1.00	0.8514	
88 Bromoform	173	9.045	9.035	0.010	96	22135	1.00	1.24	
89 Isopropylbenzene	105	9.175	9.177	-0.002	95	148180	1.00	0.8552	
92 1,1,2,2-Tetrachloroethane	83	9.471	9.473	-0.002	96	40743	1.00	1.03	
93 Bromobenzene	156	9.495	9.496	-0.001	82	55949	1.00	1.03	
94 1,2,3-Trichloropropane	110	9.530	9.520	0.010	86	15903	1.00	1.03	
95 trans-1,4-Dichloro-2-buten	53	9.530	9.532	-0.002	69	8986	1.00	0.9038	
96 N-Propylbenzene	120	9.577	9.579	-0.002	98	41458	1.00	0.9016	
97 2-Chlorotoluene	126	9.672	9.674	-0.002	98	43194	1.00	1.01	
98 1,3,5-Trimethylbenzene	105	9.743	9.745	-0.002	94	110373	1.00	0.8978	
99 4-Chlorotoluene	126	9.779	9.780	-0.001	95	44753	1.00	0.9717	
100 tert-Butylbenzene	119	10.063	10.064	-0.001	89	97152	1.00	0.9341	
102 1,2,4-Trimethylbenzene	105	10.110	10.112	-0.002	94	109889	1.00	0.8640	
103 sec-Butylbenzene	105	10.276	10.277	-0.001	93	119017	1.00	0.9135	
104 1,3-Dichlorobenzene	146	10.406	10.408	-0.002	96	94919	1.00	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Isopropyltoluene	119	10.418	10.419	-0.001	96	101474	1.00	0.8600	
106 1,4-Dichlorobenzene	146	10.489	10.490	-0.001	97	101363	1.00	1.08	
109 n-Butylbenzene	91	10.820	10.822	-0.002	96	70783	1.00	0.8885	
110 1,2-Dichlorobenzene	146	10.855	10.857	-0.002	99	89390	1.00	1.06	
111 1,2-Dibromo-3-Chloropropan	157	11.636	11.638	-0.002	87	6020	1.00	0.8572	
113 1,2,4-Trichlorobenzene	180	12.453	12.455	-0.002	92	50893	1.00	1.03	
114 Hexachlorobutadiene	225	12.619	12.620	-0.001	90	23309	1.00	1.12	
115 Naphthalene	128	12.713	12.715	-0.002	99	89571	1.00	1.08	
116 1,2,3-Trichlorobenzene	180	12.962	12.963	-0.001	98	50568	1.00	1.01	
S 128 1,2-Dichloroethene, Total	96				0		2.00	2.04	
S 129 1,3-Dichloropropene, Total	75				0		2.00	2.05	
S 130 Xylenes, Total	106				0		2.00	1.84	
S 131 Trihalomethanes, Total	1				0		4.00	4.15	

Reagents:

VMRPRIMW_00160	Amount Added: 0.80	Units: uL
VMRGAS_00129	Amount Added: 0.80	Units: uL
vm50ss_00223	Amount Added: 0.80	Units: uL
VMAROLISTDW_00128	Amount Added: 0.80	Units: uL
VM50IS_00052	Amount Added: 1.00	Units: uL

Chrom Revision: 2.2 08-Oct-2015 07:17:48

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D

Injection Date: 10-Dec-2015 15:45:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: STD8260 L1

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

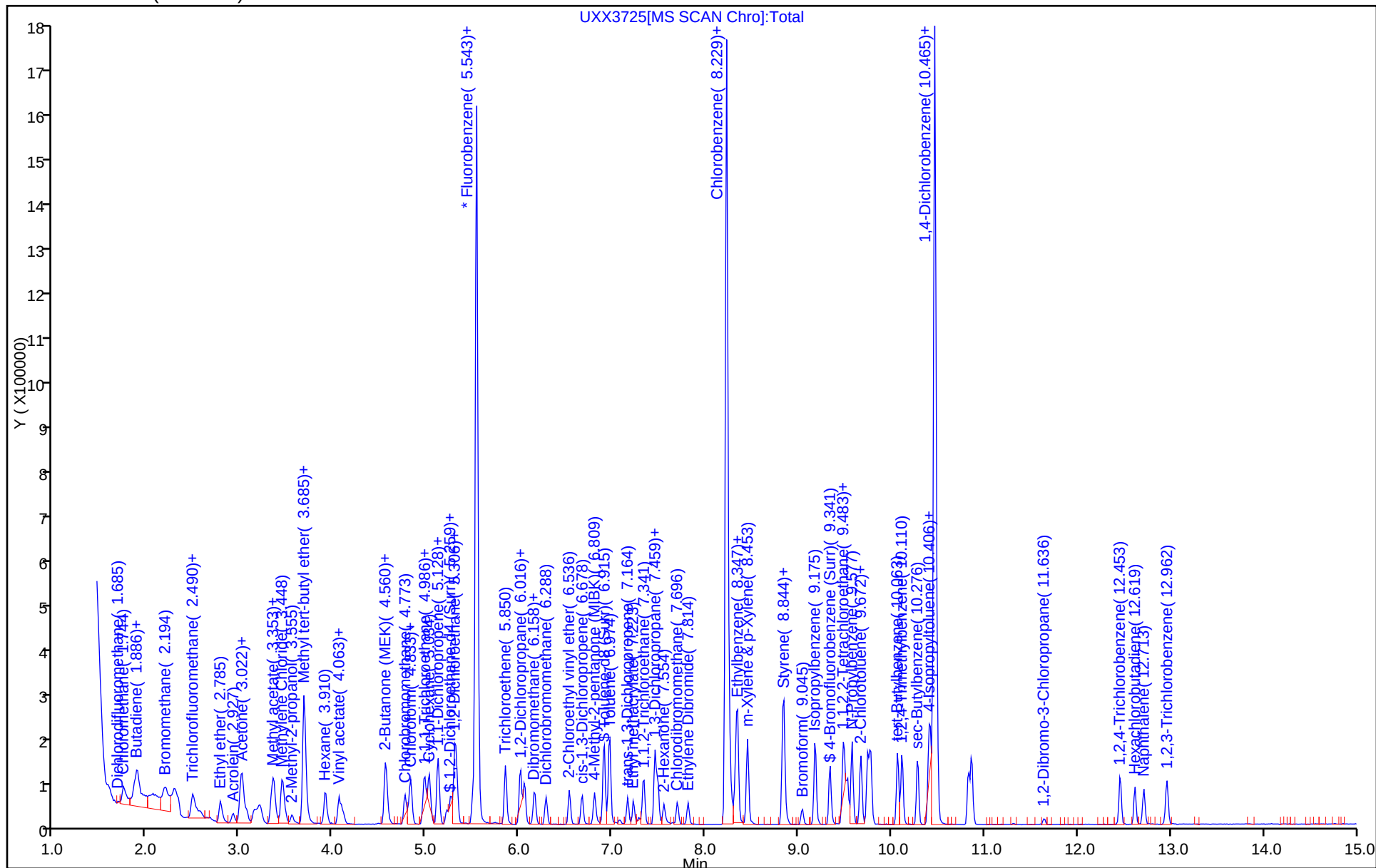
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260 10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Lab Sample ID: ICV 240-207666/15 Calibration Date: 11/19/2015 22:12
 Instrument ID: A3UX10 Calib Start Date: 11/19/2015 20:00
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/19/2015 21:50
 Lab File ID: UXX3197.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0287	0.0304		0.106	0.100	5.9	20.0
Isopropyl ether	Ave	0.1965	0.2193		0.0112	0.0100	11.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3096	0.3281		0.0106	0.0100	5.9	20.0
Tert-butyl ethyl ether	Ave	0.5678	0.6193		0.0109	0.0100	9.1	20.0
Ethyl acetate	Ave	0.1844	0.1919		0.0208	0.0200	4.1	20.0
Propionitrile	Ave	0.0329	0.0328		0.0995	0.100	-0.5	20.0
Methacrylonitrile	Ave	0.1481	0.1563		0.105	0.100	5.5	20.0
Tert-amyl methyl ether	Ave	0.5264	0.5627		0.0107	0.0100	6.9	20.0
n-Butanol	Ave	0.0062	0.0048		0.196	0.250	-21.7*	20.0
Methyl methacrylate	Ave	0.1766	0.1920		0.0217	0.0200	8.7	20.0
2-Nitropropane	Ave	0.0343	0.0333		0.0194	0.0200	-3.1	20.0
1-Chlorohexane	Ave	0.3275	0.3307		0.0101	0.0100	1.0	20.0
Cyclohexanone	Ave	0.0127	0.0114		0.0894	0.100	-10.6	20.0
1,2,3-Trimethylbenzene	Ave	2.084	2.370		0.0114	0.0100	13.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8567	0.9236		0.0108	0.0100	7.8	20.0
2-Methylnaphthalene	Ave	1.012	0.5195		0.0103	0.0200	-48.7*	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3197.D
 Lims ID: ICV A9
 Client ID:
 Sample Type: ICV
 Inject. Date: 19-Nov-2015 22:12:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0049459-015
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist:
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 20-Nov-2015 09:30:59 Calib Date: 19-Nov-2015 21:50:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK035

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.543	5.542	0.001	99	1255766	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.229	8.228	0.001	86	989524	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.466	10.464	0.002	94	481562	10.0	10.0	
25 Acetonitrile	41	3.342	3.341	0.001	99	382054	100.0	105.9	
36 Isopropyl ether	87	4.100	4.110	-0.010	91	275351	10.0	11.2	
37 2-Chloro-1,3-butadiene	53	4.135	4.134	0.001	94	411949	10.0	10.6	
38 Tert-butyl ethyl ether	59	4.419	4.418	0.001	94	777628	10.0	10.9	
42 Ethyl acetate	43	4.620	4.619	0.001	99	482010	20.0	20.8	
43 Propionitrile	54	4.644	4.643	0.001	98	411657	100.0	99.5	
44 Methacrylonitrile	41	4.762	4.773	-0.011	93	1962294	100.0	105.5	
55 Tert-amyl methyl ether	73	5.377	5.388	-0.011	93	706580	10.0	10.7	
57 n-Butanol	56	5.780	5.779	0.001	95	119387	250.0	195.7	
59 Ethyl acrylate	55	5.934	5.932	0.002	99	298846	10.0	10.4	
62 Methyl methacrylate	41	6.135	6.134	0.001	89	482093	20.0	21.7	
66 2-Nitropropane	41	6.490	6.500	-0.010	98	83556	20.0	19.4	
77 n-Butyl acetate	56	7.649	7.648	0.001	100	128118	10.0	9.93	
81 1-Chlorohexane	91	8.206	8.216	-0.010	96	327242	10.0	10.1	
91 Cyclohexanone	55	9.306	9.305	0.001	90	54693	100.0	89.4	
101 Pentachloroethane	167	10.099	10.098	0.001	0	273557	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.537	10.535	0.002	98	1141492	10.0	11.4	
108 Benzyl chloride	126	10.631	10.630	0.001	0	47967	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.838	11.837	0.001	97	444778	10.0	10.8	
117 2-Methylnaphthalene	142	14.027	14.026	0.001	99	500346	20.0	10.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VM50IS_00050

Amount Added: 1.00

Units: uL

VMFASA9W_00077

Amount Added: 8.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3197.D

Injection Date: 19-Nov-2015 22:12:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: ICV A9

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

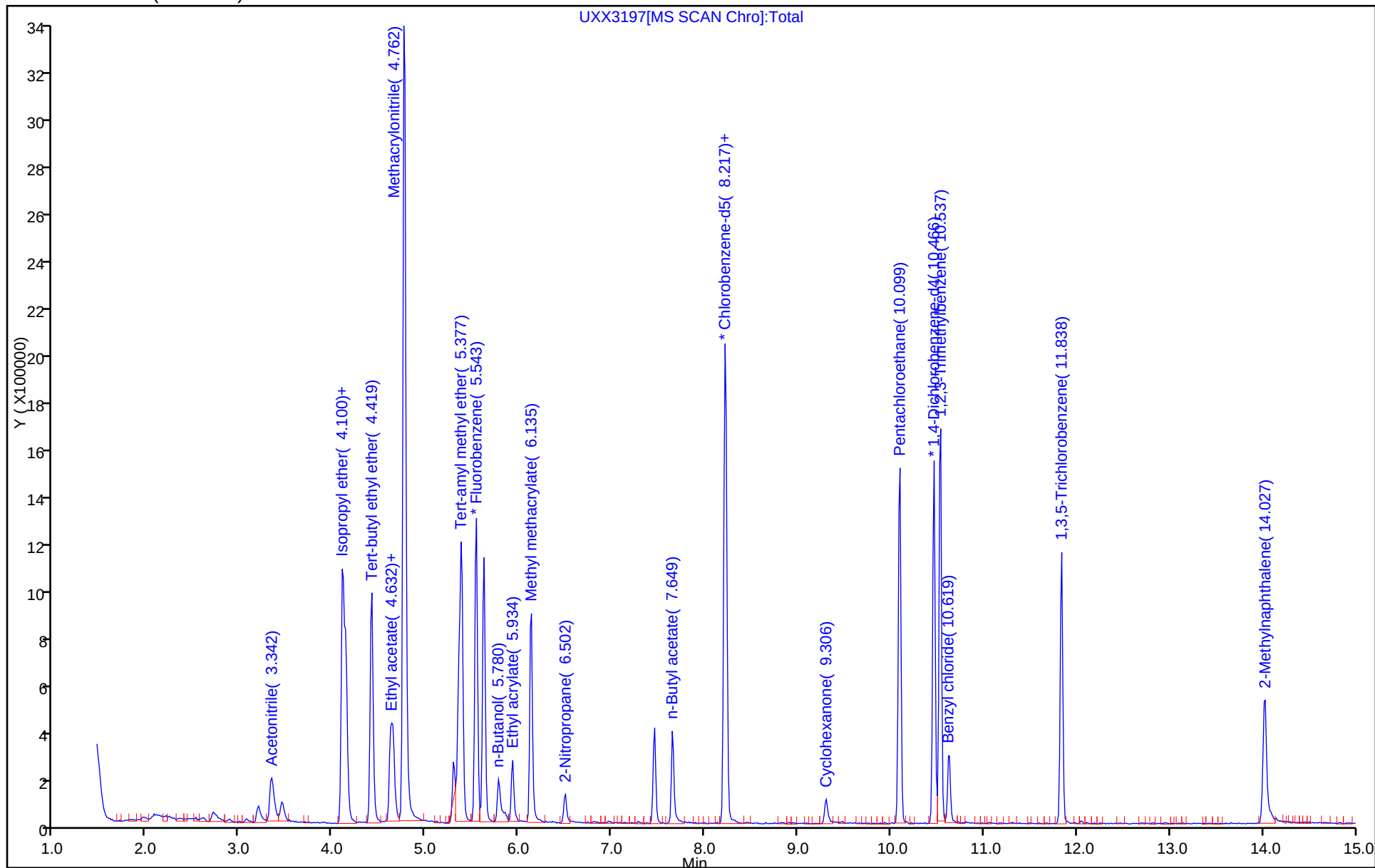
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Lab Sample ID: CCVIS 240-212432/2 Calibration Date: 12/29/2015 11:09

Instrument ID: A3UX10 Calib Start Date: 12/10/2015 13:55

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/10/2015 15:45

Lab File ID: UXX4166.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2335	0.2641	0.1000	0.0113	0.0100	13.1	20.0
Chloromethane	Ave	0.2519	0.2523	0.1000	0.0100	0.0100	0.2	20.0
Vinyl chloride	Ave	0.2441	0.2433	0.1000	0.00997	0.0100	-0.3	20.0
Butadiene	Ave	0.2239	0.2338		0.0104	0.0100	4.4	20.0
Bromomethane	Ave	0.1284	0.0711	0.0500	0.00554	0.0100	-44.6*	20.0
Chloroethane	Ave	0.1607	0.0872	0.0500	0.00543	0.0100	-45.7*	20.0
Dichlorofluoromethane	Ave	0.3377	0.2717		0.00805	0.0100	-19.5	20.0
Trichlorofluoromethane	Ave	0.1841	0.1942	0.1000	0.0105	0.0100	5.5	20.0
Ethyl ether	Ave	0.1938	0.1855		0.00957	0.0100	-4.3	20.0
Acrolein	Ave	0.0353	0.0325		0.0461	0.0500	-7.9	20.0
1,1-Dichloroethene	Ave	0.2272	0.2298	0.1000	0.0101	0.0100	1.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2193	0.2376	0.0500	0.0108	0.0100	8.4	20.0
Acetone	Lin1		0.0597	0.0500	0.0167	0.0200	-16.4	20.0
Iodomethane	Ave	0.4139	0.3793		0.00916	0.0100	-8.4	20.0
Carbon disulfide	Ave	0.5592	0.6267	0.1000	0.0112	0.0100	12.1	20.0
3-Chloro-1-propene	Ave	0.1286	0.1300		0.0101	0.0100	1.1	20.0
Methyl acetate	Ave	0.1524	0.1366	0.1000	0.0448	0.0500	-10.4	20.0
Methylene Chloride	Lin1		0.2646	0.1000	0.0108	0.0100	8.1	20.0
2-Methyl-2-propanol	Ave	0.0135	0.0136		0.101	0.100	0.9	20.0
Acrylonitrile	Ave	0.0785	0.0746		0.0950	0.100	-5.0	20.0
Methyl tert-butyl ether	Ave	0.6248	0.6163	0.1000	0.00986	0.0100	-1.4	20.0
trans-1,2-Dichloroethene	Ave	0.2529	0.2476	0.1000	0.00979	0.0100	-2.1	20.0
Hexane	Ave	0.0533	0.0617		0.0116	0.0100	15.7	20.0
1,1-Dichloroethane	Ave	0.3863	0.3650	0.1000	0.00945	0.0100	-5.5	20.0
Vinyl acetate	Ave	0.3238	0.3188		0.00985	0.0100	-1.5	20.0
2,2-Dichloropropane	Ave	0.1936	0.2078		0.0107	0.0100	7.4	20.0
cis-1,2-Dichloroethene	Ave	0.2674	0.2552	0.1000	0.00954	0.0100	-4.6	20.0
2-Butanone (MEK)	Ave	0.0950	0.0835	0.0500	0.0176	0.0200	-12.1	20.0
Chlorobromomethane	Ave	0.1487	0.1370		0.00921	0.0100	-7.9	20.0
Tetrahydrofuran	Ave	0.0539	0.0524		0.0194	0.0200	-2.8	20.0
Chloroform	Ave	0.4154	0.3870	0.2000	0.00932	0.0100	-6.8	20.0
1,1,1-Trichloroethane	Ave	0.3043	0.3126	0.1000	0.0103	0.0100	2.7	20.0
Cyclohexane	Ave	0.3064	0.3434	0.1000	0.0112	0.0100	12.1	20.0
1,1-Dichloropropene	Ave	0.2840	0.2822		0.00994	0.0100	-0.6	20.0
Carbon tetrachloride	Ave	0.2723	0.3091	0.1000	0.0114	0.0100	13.5	20.0
Isobutyl alcohol	Ave	0.0082	0.0068		0.208	0.250	-16.7	20.0
Benzene	Ave	0.9841	0.9271	0.5000	0.00942	0.0100	-5.8	20.0
1,2-Dichloroethane	Ave	0.3235	0.2888	0.1000	0.00893	0.0100	-10.7	20.0
n-Heptane	Ave	0.0443	0.0553		0.0125	0.0100	24.8*	20.0
Trichloroethene	Ave	0.3014	0.2804	0.2000	0.00930	0.0100	-7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Lab Sample ID: CCVIS 240-212432/2 Calibration Date: 12/29/2015 11:09

Instrument ID: A3UX10 Calib Start Date: 12/10/2015 13:55

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/10/2015 15:45

Lab File ID: UXX4166.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3077	0.3596	0.1000	0.0117	0.0100	16.9	20.0
1,2-Dichloropropane	Ave	0.2060	0.1948	0.1000	0.00945	0.0100	-5.5	20.0
Dibromomethane	Ave	0.1425	0.1314		0.00922	0.0100	-7.8	20.0
1,4-Dioxane	Ave	0.0023	0.0024		0.209	0.200	4.5	20.0
Bromodichloromethane	Ave	0.2723	0.2678	0.1000	0.00984	0.0100	-1.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1208	0.1182		0.0196	0.0200	-2.2	20.0
cis-1,3-Dichloropropene	Ave	0.2922	0.2957	0.1500	0.0101	0.0100	1.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1713	0.1555	0.0500	0.0181	0.0200	-9.3	20.0
Toluene	Ave	1.407	1.286	0.4000	0.00914	0.0100	-8.6	20.0
trans-1,3-Dichloropropene	Lin1		0.3236	0.1000	0.00886	0.0100	-11.4	20.0
Ethyl methacrylate	Lin1		0.2969		0.00836	0.0100	-16.4	20.0
1,1,2-Trichloroethane	Ave	0.2876	0.2540	0.1000	0.00883	0.0100	-11.7	20.0
Tetrachloroethene	Ave	0.3483	0.3169	0.2000	0.00910	0.0100	-9.0	20.0
1,3-Dichloropropane	Ave	0.4815	0.4316		0.00896	0.0100	-10.4	20.0
2-Hexanone	Ave	0.1588	0.1357	0.0500	0.0171	0.0200	-14.5	20.0
Dibromochloromethane	Ave	0.2889	0.2879		0.00997	0.0100	-0.3	20.0
1,2-Dibromoethane	Ave	0.2952	0.2646		0.00896	0.0100	-10.4	20.0
Chlorobenzene	Ave	0.998	0.8857	0.3000	0.00887	0.0100	-11.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3167	0.3057		0.00965	0.0100	-3.5	20.0
Ethylbenzene	Ave	0.4909	0.4730		0.00964	0.0100	-3.6	20.0
m,p-Xylene	Ave	0.6094	0.5832		0.00957	0.0100	-4.3	20.0
o-Xylene	Ave	0.5672	0.5533		0.00975	0.0100	-2.5	20.0
Styrene	Ave	0.9832	0.9423	0.3000	0.00958	0.0100	-4.2	20.0
Bromoform	Lin1		0.2115	0.1000	0.00939	0.0100	-6.1	20.0
Isopropylbenzene	Ave	1.379	1.406	0.1000	0.0102	0.0100	1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6374	0.5105	0.3000	0.00801	0.0100	-19.9	20.0
Bromobenzene	Ave	0.8724	0.7065		0.00810	0.0100	-19.0	20.0
1,2,3-Trichloropropane	Ave	0.2489	0.1958		0.00787	0.0100	-21.3*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1596	0.1351		0.00847	0.0100	-15.3	20.0
N-Propylbenzene	Ave	0.7379	0.6665		0.00903	0.0100	-9.7	20.0
2-Chlorotoluene	Ave	0.6845	0.5769		0.00843	0.0100	-15.7	20.0
1,3,5-Trimethylbenzene	Ave	1.973	1.853		0.00939	0.0100	-6.1	20.0
4-Chlorotoluene	Ave	0.7390	0.6322		0.00855	0.0100	-14.5	20.0
tert-Butylbenzene	Ave	1.669	1.604		0.00961	0.0100	-3.9	20.0
1,2,4-Trimethylbenzene	Ave	2.041	1.953		0.00957	0.0100	-4.3	20.0
sec-Butylbenzene	Ave	2.091	2.090		0.0100	0.0100	-0.0	20.0
1,3-Dichlorobenzene	Ave	1.435	1.271	0.6000	0.00885	0.0100	-11.5	20.0
4-Isopropyltoluene	Ave	1.893	1.920		0.0101	0.0100	1.4	20.0
1,4-Dichlorobenzene	Ave	1.511	1.301	0.5000	0.00861	0.0100	-13.9	20.0
n-Butylbenzene	Ave	1.278	1.326		0.0104	0.0100	3.8	20.0
1,2-Dichlorobenzene	Ave	1.355	1.217	0.4000	0.00899	0.0100	-10.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-212432/2 Calibration Date: 12/29/2015 11:09
 Instrument ID: A3UX10 Calib Start Date: 12/10/2015 13:55
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 12/10/2015 15:45
 Lab File ID: UXX4166.D Conc. Units: ng/uL 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	0.1127	0.1039	0.0500	0.00922	0.0100	-7.8	20.0
1,2,4-Trichlorobenzene	Ave	0.7957	0.6554	0.2000	0.00824	0.0100	-17.6	20.0
Hexachlorobutadiene	Ave	0.3343	0.2934		0.00878	0.0100	-12.2	20.0
Naphthalene	Lin1		1.365		0.00732	0.0100	-26.8*	20.0
1,2,3-Trichlorobenzene	Ave	0.8007	0.5634		0.00704	0.0100	-29.6*	20.0
Dibromofluoromethane (Surr)	Ave	0.2366	0.2364		0.00999	0.0100	-0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2673	0.2540		0.00950	0.0100	-5.0	20.0
Toluene-d8 (Surr)	Ave	1.217	1.186		0.00974	0.0100	-2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4190	0.4388		0.0105	0.0100	4.7	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4166.D
 Lims ID: CCVIS L4 8260
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 29-Dec-2015 11:09:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-002
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub46
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 29-Dec-2015 13:52:00 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: quayler

Date: 29-Dec-2015 11:35:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.542	0.000	100	1748311	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.228	0.000	83	1387863	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.464	10.464	0.000	92	843239	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.974	4.974	0.000	95	413256	10.0	10.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.258	5.258	0.000	0	444065	10.0	9.50	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	92	1645513	10.0	9.74	
\$ 7 4-Bromofluorobenzene (Surr	95	9.340	9.340	0.000	96	609041	10.0	10.5	
9 Dichlorodifluoromethane	85	1.590	1.590	0.000	99	461680	10.0	11.3	
10 Chloromethane	50	1.755	1.755	0.000	99	441060	10.0	10.0	
11 Vinyl chloride	62	1.862	1.862	0.000	98	425341	10.0	9.97	
12 Butadiene	54	1.897	1.897	0.000	98	408731	10.0	10.4	
13 Bromomethane	94	2.193	2.193	0.000	89	124295	10.0	5.54	
14 Chloroethane	64	2.300	2.300	0.000	99	152473	10.0	5.43	
15 Dichlorofluoromethane	67	2.489	2.489	0.000	97	475053	10.0	8.05	
16 Trichlorofluoromethane	101	2.513	2.513	0.000	98	339507	10.0	10.5	
17 Ethyl ether	59	2.785	2.785	0.000	87	324248	10.0	9.57	
18 Acrolein	56	2.927	2.927	0.000	99	284128	50.0	46.1	
19 1,1-Dichloroethene	96	3.010	3.010	0.000	97	401669	10.0	10.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.033	3.033	0.000	87	415464	10.0	10.8	
21 Acetone	43	3.069	3.069	0.000	100	208877	20.0	16.7	
22 Iodomethane	142	3.152	3.152	0.000	97	663045	10.0	9.16	
24 Carbon disulfide	76	3.211	3.211	0.000	99	1095717	10.0	11.2	
26 3-Chloro-1-propene	76	3.341	3.341	0.000	90	227289	10.0	10.1	
27 Methyl acetate	43	3.353	3.353	0.000	96	1193931	50.0	44.8	
28 Methylene Chloride	84	3.448	3.448	0.000	85	462607	10.0	10.8	
29 2-Methyl-2-propanol	59	3.554	3.554	0.000	94	238488	100.0	100.9	
31 Acrylonitrile	53	3.684	3.684	0.000	98	1303742	100.0	95.0	
32 Methyl tert-butyl ether	73	3.684	3.684	0.000	88	1077550	10.0	9.86	
30 trans-1,2-Dichloroethene	96	3.696	3.696	0.000	92	432947	10.0	9.79	
33 Hexane	86	3.921	3.921	0.000	90	107862	10.0	11.6	
34 1,1-Dichloroethane	63	4.063	4.063	0.000	96	638204	10.0	9.45	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	4.098	4.098	0.000	97	557318	10.0	9.85	
40 cis-1,2-Dichloroethene	96	4.560	4.560	0.000	80	446122	10.0	9.54	
39 2,2-Dichloropropane	77	4.560	4.560	0.000	63	363318	10.0	10.7	
41 2-Butanone (MEK)	43	4.584	4.584	0.000	98	292089	20.0	17.6	
45 Chlorobromomethane	128	4.773	4.773	0.000	84	239522	10.0	9.21	
46 Tetrahydrofuran	42	4.808	4.808	0.000	95	183162	20.0	19.4	
47 Chloroform	83	4.832	4.832	0.000	93	676601	10.0	9.32	
48 1,1,1-Trichloroethane	97	4.986	4.986	0.000	98	546495	10.0	10.3	
49 Cyclohexane	56	5.033	5.033	0.000	87	600389	10.0	11.2	
50 1,1-Dichloropropene	75	5.128	5.128	0.000	94	493360	10.0	9.94	
51 Carbon tetrachloride	117	5.128	5.128	0.000	98	540357	10.0	11.4	
52 Isobutyl alcohol	41	5.222	5.222	0.000	93	236596	250.0	208.3	
53 Benzene	78	5.305	5.305	0.000	94	1620779	10.0	9.42	
54 1,2-Dichloroethane	62	5.329	5.329	0.000	98	504950	10.0	8.93	
56 n-Heptane	100	5.506	5.506	0.000	87	96586	10.0	12.5	
58 Trichloroethene	130	5.850	5.850	0.000	94	490162	10.0	9.30	
60 Methylcyclohexane	83	6.015	6.015	0.000	83	628645	10.0	11.7	
61 1,2-Dichloropropane	63	6.051	6.051	0.000	94	340476	10.0	9.45	
63 Dibromomethane	93	6.157	6.157	0.000	94	229754	10.0	9.22	
64 1,4-Dioxane	88	6.169	6.169	0.000	88	84368	200.0	209.1	
65 Dichlorobromomethane	83	6.287	6.287	0.000	99	468254	10.0	9.84	
67 2-Chloroethyl vinyl ether	63	6.536	6.536	0.000	94	413152	20.0	19.6	
68 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	96	516989	10.0	10.1	
69 4-Methyl-2-pentanone (MIBK)	43	6.808	6.808	0.000	94	543550	20.0	18.1	
70 Toluene	91	6.974	6.974	0.000	98	1784106	10.0	9.14	
71 trans-1,3-Dichloropropene	75	7.163	7.163	0.000	91	449127	10.0	8.86	
72 Ethyl methacrylate	69	7.222	7.222	0.000	87	412097	10.0	8.36	
73 1,1,2-Trichloroethane	97	7.341	7.341	0.000	90	352482	10.0	8.83	
74 Tetrachloroethene	164	7.459	7.459	0.000	94	439797	10.0	9.10	
75 1,3-Dichloropropane	76	7.483	7.483	0.000	89	599018	10.0	8.96	
76 2-Hexanone	43	7.554	7.554	0.000	94	376711	20.0	17.1	
78 Chlorodibromomethane	129	7.696	7.696	0.000	90	399608	10.0	9.97	
80 Ethylene Dibromide	107	7.814	7.814	0.000	99	367240	10.0	8.96	
82 Chlorobenzene	112	8.252	8.252	0.000	97	1229219	10.0	8.87	
83 1,1,1,2-Tetrachloroethane	131	8.323	8.323	0.000	94	424243	10.0	9.65	
84 Ethylbenzene	106	8.346	8.346	0.000	97	656406	10.0	9.64	
85 m-Xylene & p-Xylene	106	8.453	8.453	0.000	98	809425	10.0	9.57	
86 o-Xylene	106	8.831	8.831	0.000	95	767848	10.0	9.75	
87 Styrene	104	8.843	8.843	0.000	94	1307782	10.0	9.58	
88 Bromoform	173	9.044	9.044	0.000	98	293483	10.0	9.39	
89 Isopropylbenzene	105	9.175	9.175	0.000	94	1950970	10.0	10.2	
92 1,1,2,2-Tetrachloroethane	83	9.470	9.470	0.000	97	430493	10.0	8.01	
93 Bromobenzene	156	9.494	9.494	0.000	83	595727	10.0	8.10	
94 1,2,3-Trichloropropane	110	9.530	9.530	0.000	85	165144	10.0	7.87	
95 trans-1,4-Dichloro-2-buten	53	9.530	9.530	0.000	78	113894	10.0	8.47	
96 N-Propylbenzene	120	9.577	9.577	0.000	98	562028	10.0	9.03	
97 2-Chlorotoluene	126	9.672	9.672	0.000	98	486425	10.0	8.43	
98 1,3,5-Trimethylbenzene	105	9.743	9.743	0.000	94	1562393	10.0	9.39	
99 4-Chlorotoluene	126	9.778	9.778	0.000	95	533084	10.0	8.55	
100 tert-Butylbenzene	119	10.062	10.062	0.000	89	1352461	10.0	9.61	
102 1,2,4-Trimethylbenzene	105	10.109	10.109	0.000	93	1646869	10.0	9.57	
103 sec-Butylbenzene	105	10.275	10.275	0.000	93	1762684	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,3-Dichlorobenzene	146	10.405	10.405	0.000	96	1071347	10.0	8.85	
105 4-Isopropyltoluene	119	10.417	10.417	0.000	97	1618992	10.0	10.1	
106 1,4-Dichlorobenzene	146	10.488	10.488	0.000	97	1096748	10.0	8.61	
109 n-Butylbenzene	91	10.831	10.831	0.000	96	1118470	10.0	10.4	
110 1,2-Dichlorobenzene	146	10.867	10.867	0.000	99	1026615	10.0	8.99	
111 1,2-Dibromo-3-Chloropropan	157	11.648	11.648	0.000	92	87572	10.0	9.22	
113 1,2,4-Trichlorobenzene	180	12.464	12.464	0.000	93	552691	10.0	8.24	
114 Hexachlorobutadiene	225	12.618	12.618	0.000	90	247390	10.0	8.78	
115 Naphthalene	128	12.713	12.713	0.000	100	1151405	10.0	7.32	
116 1,2,3-Trichlorobenzene	180	12.961	12.961	0.000	98	475055	10.0	7.04	
S 128 1,2-Dichloroethene, Total	96				0		20.0	19.3	
S 129 1,3-Dichloropropene, Total	75				0		20.0	19.0	
S 130 Xylenes, Total	106				0		20.0	19.3	
S 131 Trihalomethanes, Total	1				0		40.0	38.5	

Reagents:

VMRPRIMW_00163	Amount Added: 8.00	Units: uL	
VMRGAS_00131	Amount Added: 8.00	Units: uL	
VMAROLISTDW_00131	Amount Added: 8.00	Units: uL	
VM50IS_00052	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00067	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00060	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4166.D

Injection Date: 29-Dec-2015 11:09:30

Instrument ID: A3UX10

Lims ID: CCVIS L4 8260

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_10

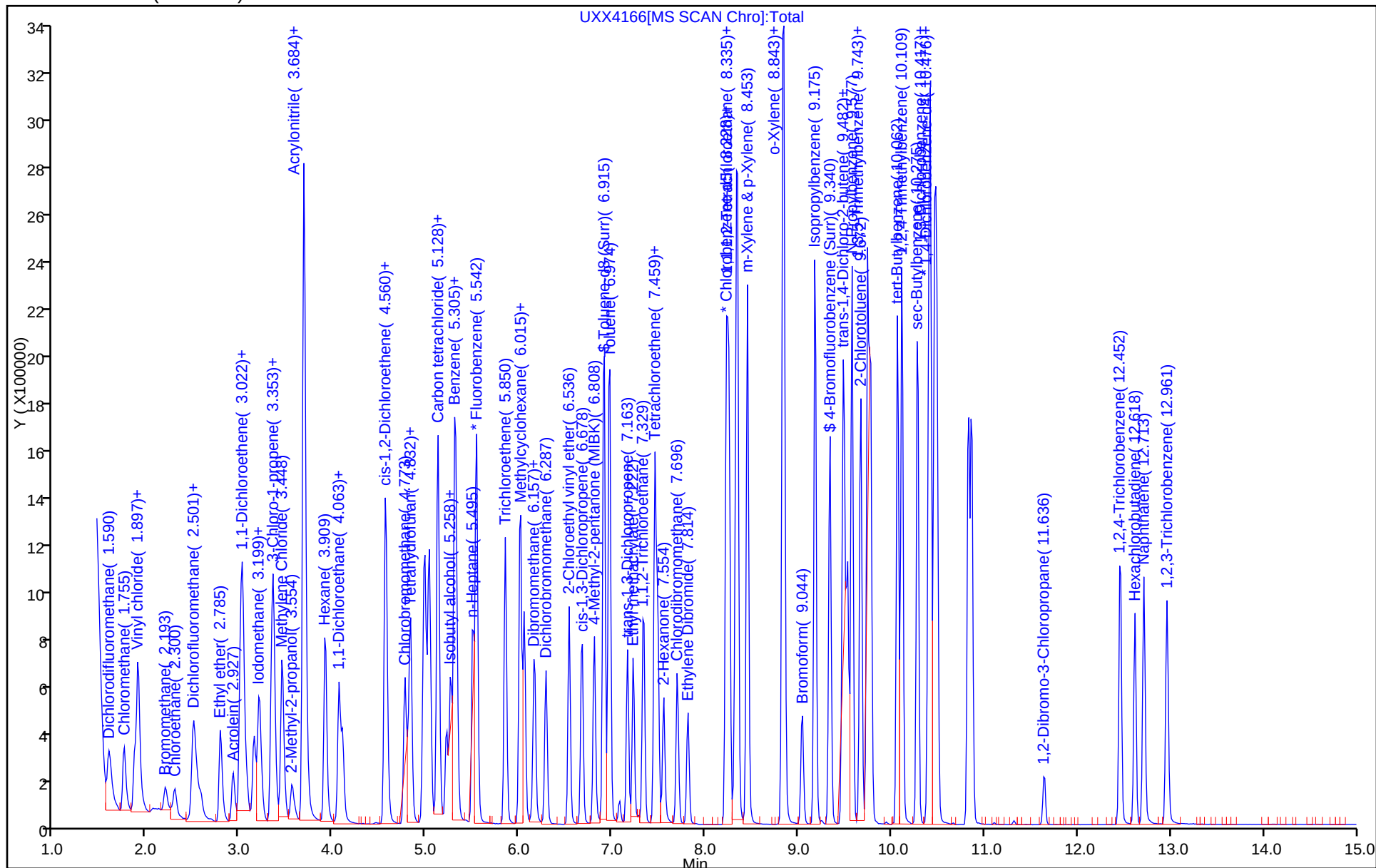
Limit Group: MSV 8260DOD ICAL

Operator ID: 1904

Worklist Smp#: 2

ALS Bottle#: 1

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Lab Sample ID: CCV 240-212432/3 Calibration Date: 12/29/2015 11:31
 Instrument ID: A3UX10 Calib Start Date: 11/19/2015 20:00
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/19/2015 21:50
 Lab File ID: UXX4167.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0287	0.0228		0.0795	0.100	-20.5*	20.0
Isopropyl ether	Ave	0.1965	0.2084		0.0106	0.0100	6.1	20.0
2-Chloro-1,3-butadiene	Ave	0.3096	0.3200		0.0103	0.0100	3.3	20.0
Tert-butyl ethyl ether	Ave	0.5678	0.5929		0.0104	0.0100	4.4	20.0
Ethyl acetate	Ave	0.1844	0.1778		0.0193	0.0200	-3.5	20.0
Propionitrile	Ave	0.0329	0.0308		0.0936	0.100	-6.4	20.0
Methacrylonitrile	Ave	0.1481	0.1282		0.0865	0.100	-13.5	20.0
Tert-amyl methyl ether	Ave	0.5264	0.5913		0.0112	0.0100	12.3	20.0
n-Butanol	Ave	0.0062	0.0057		0.232	0.250	-7.3	20.0
Methyl methacrylate	Ave	0.1766	0.1714		0.0194	0.0200	-3.0	20.0
2-Nitropropane	Ave	0.0343	0.0415		0.0242	0.0200	21.0*	20.0
1-Chlorohexane	Ave	0.3275	0.3434		0.0105	0.0100	4.8	20.0
Cyclohexanone	Ave	0.0127	0.0100		0.0784	0.100	-21.6*	20.0
1,2,3-Trimethylbenzene	Ave	2.084	2.210		0.0106	0.0100	6.0	20.0
1,3,5-Trichlorobenzene	Ave	0.8567	0.9253		0.0108	0.0100	8.0	20.0
2-Methylnaphthalene	Ave	1.012	0.1672		0.00330	0.0200	-83.5*	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4167.D
 Lims ID: CCV A9 L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Dec-2015 11:31:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-003
 Operator ID: 1904 Instrument ID: A3UX10
 Sublist: chrom-8260_10*sub63
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 29-Dec-2015 13:52:03 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.542	0.000	100	1737038	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.228	0.000	83	1427152	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.465	0.000	92	754974	10.0	10.0	
25 Acetonitrile	41	3.341	3.341	0.000	99	396482	100.0	79.5	
36 Isopropyl ether	87	4.111	4.111	0.000	91	361972	10.0	10.6	
37 2-Chloro-1,3-butadiene	53	4.134	4.134	0.000	91	555767	10.0	10.3	
38 Tert-butyl ethyl ether	59	4.418	4.418	0.000	95	1029866	10.0	10.4	
42 Ethyl acetate	43	4.619	4.619	0.000	98	617821	20.0	19.3	
43 Propionitrile	54	4.643	4.643	0.000	99	535768	100.0	93.6	
44 Methacrylonitrile	41	4.761	4.761	0.000	90	2226551	100.0	86.5	
55 Tert-amyl methyl ether	73	5.389	5.389	0.000	96	1027182	10.0	11.2	
57 n-Butanol	56	5.779	5.779	0.000	89	204003	250.0	231.8	
59 Ethyl acrylate	55	5.933	5.933	0.000	99	420109	10.0	10.6	
62 Methyl methacrylate	41	6.134	6.134	0.000	85	595347	20.0	19.4	
66 2-Nitropropane	41	6.501	6.501	0.000	99	144285	20.0	24.2	
77 n-Butyl acetate	56	7.649	7.649	0.000	97	206154	10.0	11.1	
81 1-Chlorohexane	91	8.205	8.205	0.000	95	490051	10.0	10.5	
91 Cyclohexanone	55	9.305	9.305	0.000	88	75147	100.0	78.4	
101 Pentachloroethane	167	10.098	10.098	0.000	0	612327	NC	NC	
107 1,2,3-Trimethylbenzene	105	10.536	10.536	0.000	97	1668231	10.0	10.6	
108 Benzyl chloride	126	10.630	10.630	0.000	0	134196	NC	NC	
112 1,3,5-Trichlorobenzene	180	11.837	11.837	0.000	96	698590	10.0	10.8	
117 2-Methylnaphthalene	142	14.026	14.026	0.000	99	252510	20.0	3.30	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRA9W_00137

Amount Added: 8.00

Units: uL

VM50IS_00052

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4167.D

Injection Date: 29-Dec-2015 11:31:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: CCV A9 L4

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

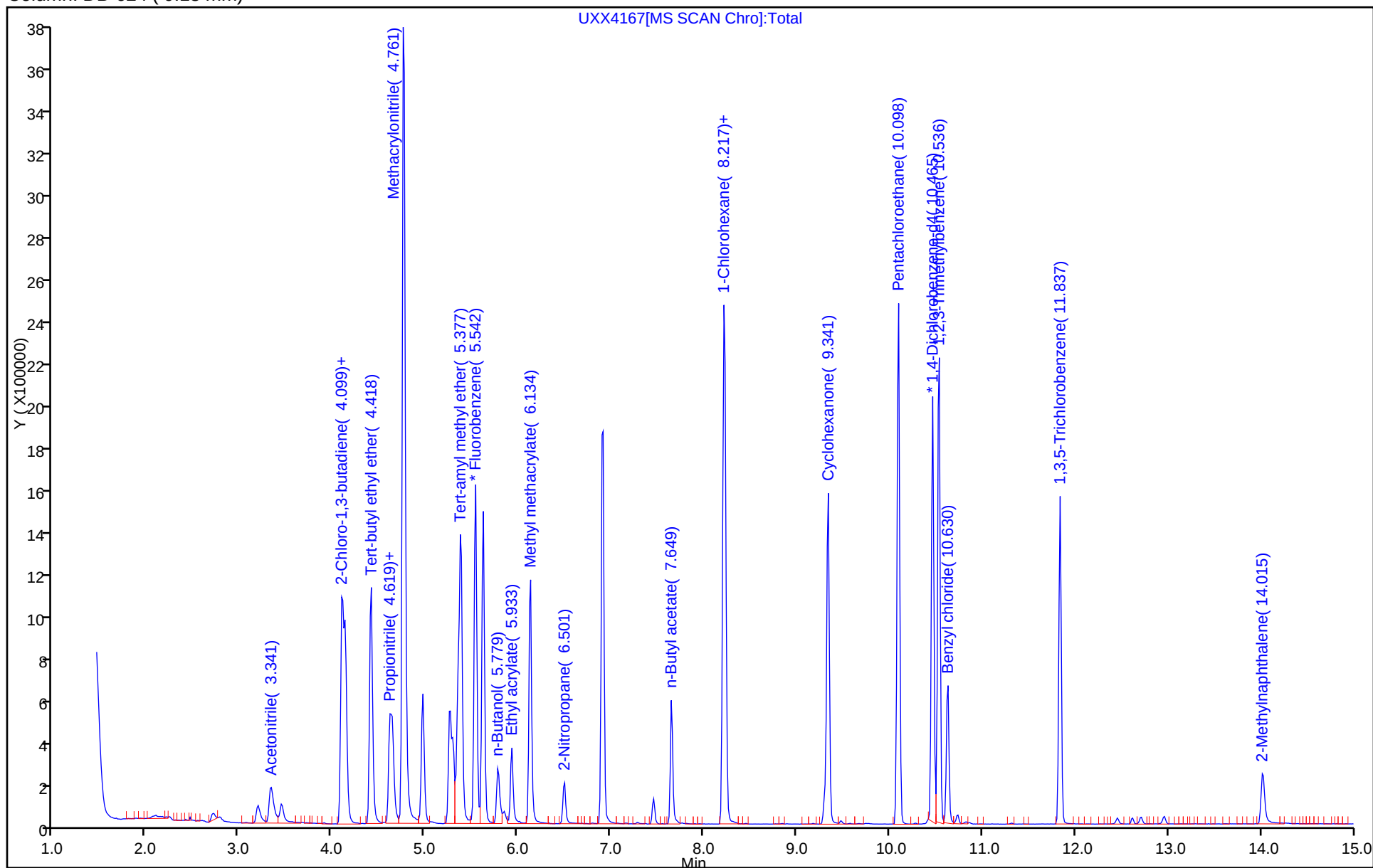
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\BFB7326.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 19-Nov-2015 16:56:30 ALS Bottle#: 3 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: A3UX10
Method: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\8260_10.m
Limit Group: MSV 8260DOD ICAL
Last Update: 20-Nov-2015 09:29:52 Calib Date: 19-Nov-2015 21:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\UXX3196.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK035

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.721	3.721	0.000	0	322949	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00014

Amount Added: 1.00

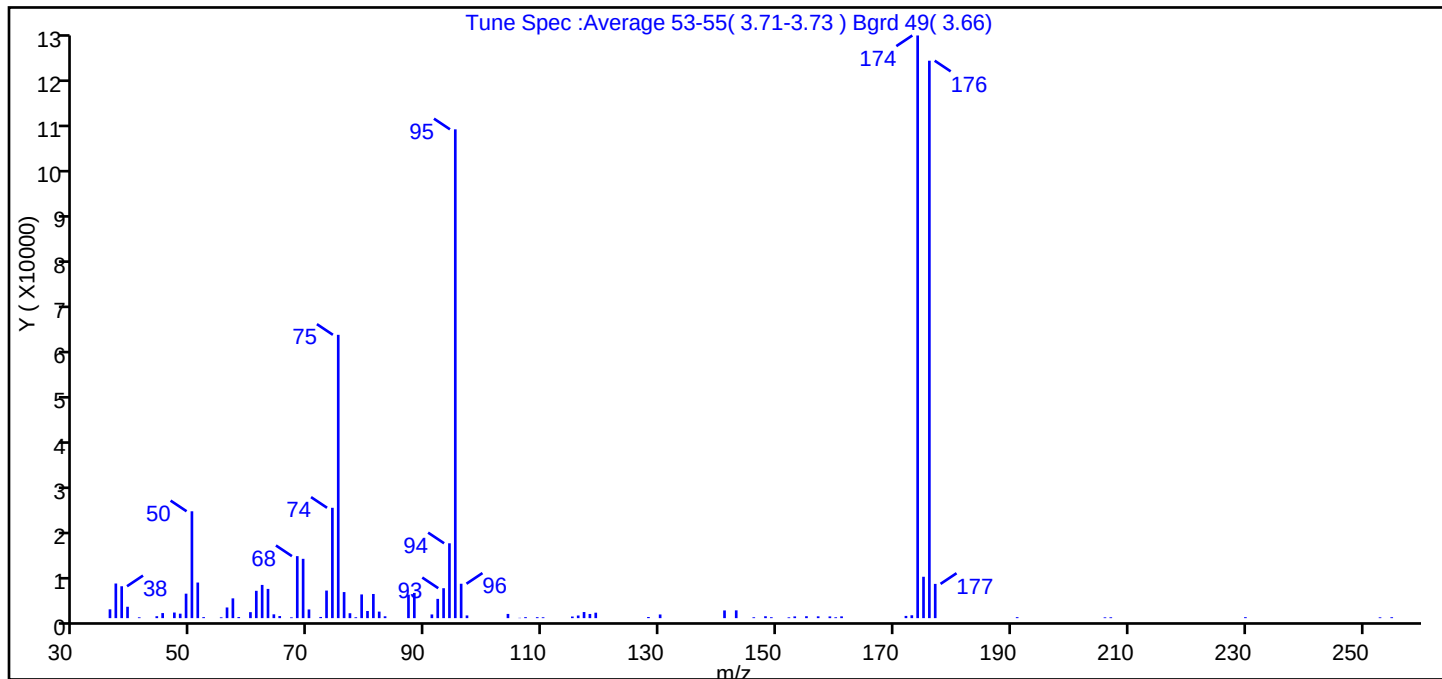
Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\BFB7326.D
Injection Date: 19-Nov-2015 16:56:30 Instrument ID: A3UX10
Lims ID: BFB
Client ID:
Operator ID:
Injection Vol: 5.0 mL
Method: 8260_10
Tune Method: BFB Method 8260

ALS Bottle#: 3 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: MSV 8260DOD ICAL

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.9
75	30 to 60% of m/z 95	58.0
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.6 (0.5)
174	50 to 120% of m/z 95	119.2
175	5 to 9% of m/z 174	8.5 (7.1)
176	Greater than 95% but less than 101% of m/z 174	114.0 (95.7)
177	5 to 9% of m/z 176	7.0 (6.1)

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151119-49459.b\BFB7326.D\8260_10.rslt\spectra.d
 Injection Date: 19-Nov-2015 16:56:30
 Spectrum: Tune Spec :Average 53-55(3.71-3.73) Bgrd 49(3.66)
 Base Peak: 174.00
 Minimum % Base Peak: 0
 Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1878	64.00	811	92.00	4101	148.00	402
37.00	7370	65.00	445	93.00	6369	149.00	193
38.00	6786	67.00	171	94.00	15925	152.00	172
39.00	2423	68.00	13192	95.00	104000	153.00	368
41.00	176	69.00	12622	96.00	7321	155.00	410
44.00	410	70.00	1852	97.00	573	157.00	386
45.00	1078	72.00	249	104.00	899	159.00	367
47.00	1194	73.00	5867	106.00	65	160.00	186
48.00	950	74.00	23480	107.00	207	161.00	379
49.00	5208	75.00	60280	109.00	203	172.00	477
50.00	22736	76.00	5548	110.00	183	173.00	613
51.00	7576	77.00	1047	115.00	344	174.00	123968
52.00	216	78.00	191	116.00	561	175.00	8804
55.00	178	79.00	5046	117.00	1300	176.00	118600
56.00	2270	80.00	1519	118.00	889	177.00	7288
57.00	4210	81.00	5141	119.00	1160	191.00	207
58.00	227	82.00	1393	128.00	238	206.00	168
60.00	1276	83.00	393	130.00	781	207.00	183
61.00	5816	87.00	4989	141.00	1640	230.00	204
62.00	7069	88.00	5366	143.00	1656	253.00	174
63.00	6219	91.00	787	146.00	186	255.00	195

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\BFB7354.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Dec-2015 13:33:30 ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0050067-001
Operator ID: Instrument ID: A3UX10
Method: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\8260_10.m
Limit Group: MSV 8260DOD ICAL
Last Update: 11-Dec-2015 08:28:45 Calib Date: 10-Dec-2015 15:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK018

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.720	3.720	0.000	0	540709	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00015

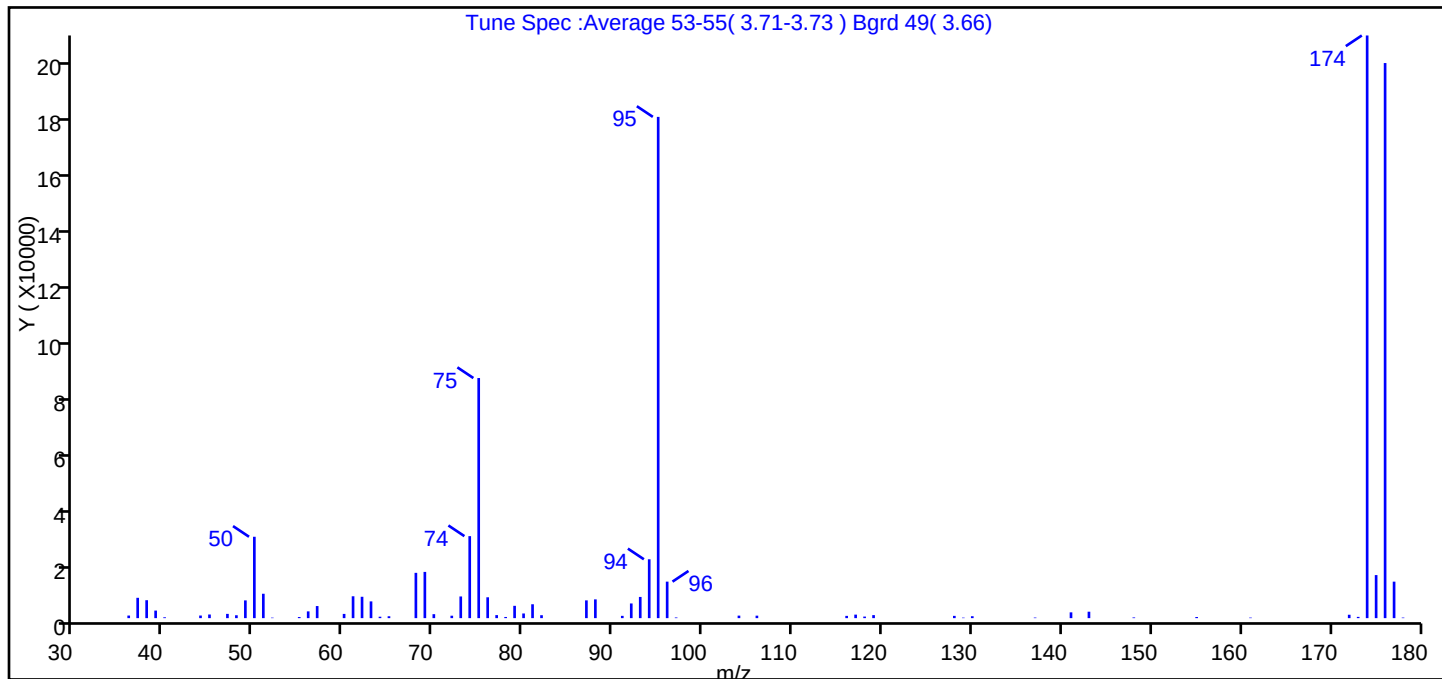
Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\BFB7354.D
Injection Date: 10-Dec-2015 13:33:30 Instrument ID: A3UX10
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_10 Limit Group: MSV 8260DOD ICAL
Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.3 (0.2)
174	50 to 120% of m/z 95	116.2
175	5 to 9% of m/z 174	8.6 (7.4)
176	Greater than 95% but less than 101% of m/z 174	110.7 (95.3)
177	5 to 9% of m/z 176	7.3 (6.6)

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\BFB7354.D\8260_10.rslt\spectra.d
Injection Date: 10-Dec-2015 13:33:30
Spectrum: Tune Spec :Average 53-55(3.71-3.73) Bgrd 49(3.66)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	892	61.00	7513	81.00	4771	128.00	781
37.00	6985	62.00	7342	82.00	1011	129.00	171
38.00	6164	63.00	5756	87.00	6105	130.00	660
39.00	2600	64.00	489	88.00	6450	137.00	196
40.00	293	65.00	650	91.00	789	141.00	1993
44.00	897	68.00	15566	92.00	5046	143.00	2213
45.00	1253	69.00	15886	93.00	7287	148.00	241
47.00	1464	70.00	1363	94.00	20224	155.00	384
48.00	995	72.00	838	95.00	172224	161.00	186
49.00	6099	73.00	7449	96.00	12542	172.00	1170
50.00	27960	74.00	28176	97.00	229	173.00	433
51.00	8382	75.00	82496	104.00	868	174.00	200192
52.00	171	76.00	7166	106.00	854	175.00	14793
55.00	381	77.00	1045	116.00	778	176.00	190720
56.00	2326	78.00	402	117.00	1209	177.00	12539
57.00	4156	79.00	4231	118.00	539	178.00	191
60.00	1455	80.00	1605	119.00	1041		

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\BFB7374.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Dec-2015 09:58:30 ALS Bottle#: 15 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0050535-001
Operator ID: Instrument ID: A3UX10
Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
Limit Group: MSV 8260DOD ICAL
Last Update: 29-Dec-2015 13:51:58 Calib Date: 10-Dec-2015 15:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	3.723	3.723	0.000	0	589281	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00015

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\BFB7374.D

Injection Date: 29-Dec-2015 09:58:30

Instrument ID: A3UX10

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 1

Injection Vol: 5.0 mL

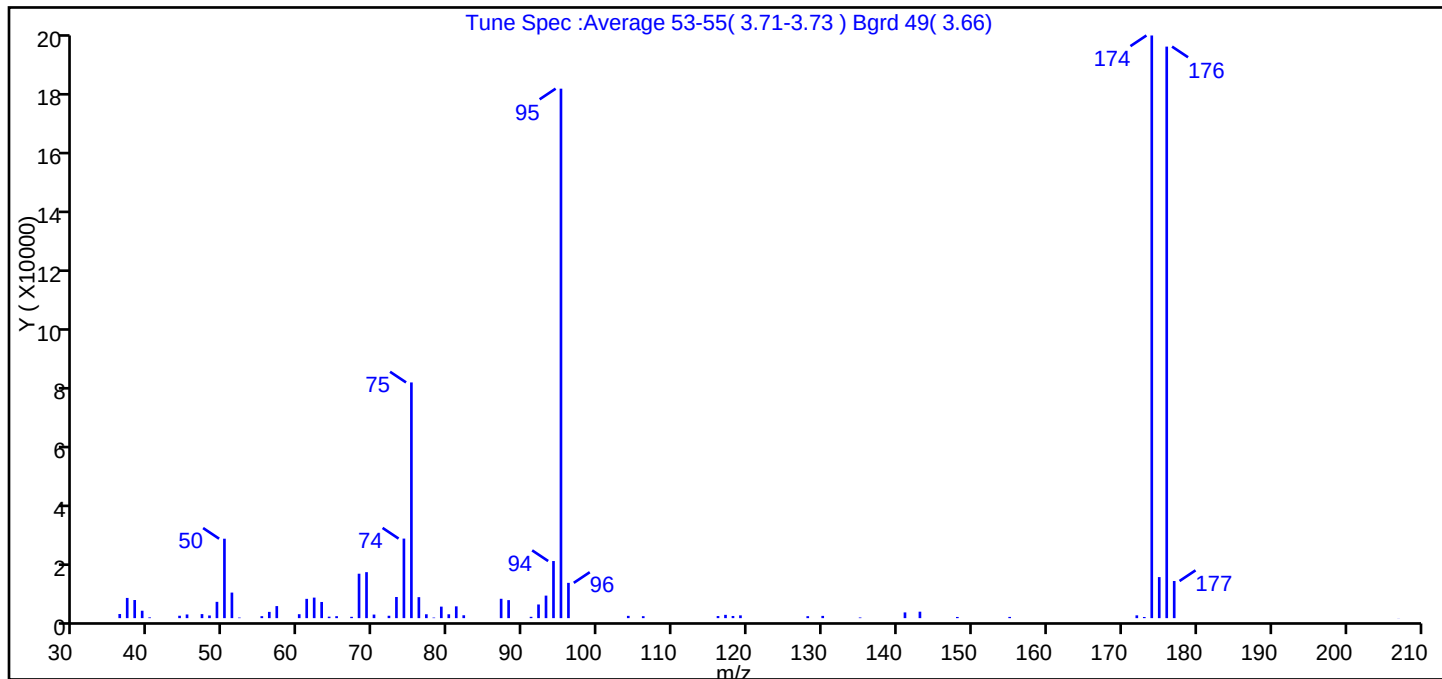
Dil. Factor: 1.0000

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.0
75	30 to 60% of m/z 95	44.5
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	110.0
175	5 to 9% of m/z 174	7.8 (7.0)
176	Greater than 95% but less than 101% of m/z 174	107.9 (98.1)
177	5 to 9% of m/z 176	7.0 (6.5)

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\BFB7374.D\8260_10.rslt\spectra.d
Injection Date: 29-Dec-2015 09:58:30
Spectrum: Tune Spec :Average 53-55(3.71-3.73) Bgrd 49(3.66)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1396	61.00	6547	80.00	1313	128.00	668
37.00	6857	62.00	6968	81.00	4007	130.00	766
38.00	6148	63.00	5485	82.00	976	135.00	223
39.00	2516	64.00	507	87.00	6571	141.00	1948
40.00	254	65.00	662	88.00	6113	143.00	2190
44.00	814	67.00	452	91.00	452	148.00	400
45.00	1251	68.00	15076	92.00	4638	155.00	416
47.00	1372	69.00	15604	93.00	7644	172.00	951
48.00	904	70.00	1215	94.00	19376	173.00	389
49.00	5532	72.00	810	95.00	179648	174.00	197696
50.00	26952	73.00	7177	96.00	11973	175.00	13925
51.00	8675	74.00	26992	104.00	776	176.00	193920
52.00	191	75.00	79976	106.00	664	177.00	12600
55.00	668	76.00	7118	116.00	717	207.00	39
56.00	2124	77.00	1314	117.00	1119		
57.00	4090	78.00	193	118.00	737		
60.00	1336	79.00	3908	119.00	944		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-212432/6

Matrix: Water Lab File ID: UXX4170.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 12:38

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.24
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.82
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
78-93-3	2-Butanone (MEK)	10	U	10	0.53
591-78-6	2-Hexanone	10	U	10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.99
67-64-1	Acetone	10	U	10	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
110-82-7	Cyclohexane	1.0	U	1.0	0.45
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-212432/6
 Matrix: Water Lab File ID: UXX4170.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 12:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
179601-23-1	m,p-Xylene	2.0	U	2.0	0.24
79-20-9	Methyl acetate	10	U	10	2.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
108-87-2	Methylcyclohexane	1.0	U	1.0	0.43
75-09-2	Methylene Chloride	0.767	J	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	100		61-120
1868-53-7	Dibromofluoromethane (Surr)	100		79-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4170.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Dec-2015 12:38:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-006
 Operator ID: 1904 Instrument ID: A3UX10
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 30-Dec-2015 07:39:53 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: quayler

Date: 29-Dec-2015 13:10:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.545	5.542	0.003	100	1559255	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.231	8.228	0.003	82	1275931	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.467	10.465	0.002	92	702194	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.977	4.974	0.003	95	367359	10.0	9.96	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.261	5.258	0.003	0	422273	10.0	10.1	
\$ 6 Toluene-d8 (Surr)	98	6.906	6.915	-0.009	92	1497266	10.0	9.64	
\$ 7 4-Bromofluorobenzene (Surr	95	9.343	9.340	0.003	96	534945	10.0	10.0	
9 Dichlorodifluoromethane	85		1.590					ND	
10 Chloromethane	50		1.755					ND	
11 Vinyl chloride	62		1.862					ND	
12 Butadiene	54		1.897					ND	
14 Chloroethane	64		2.300					ND	
15 Dichlorofluoromethane	67		2.489					ND	
16 Trichlorofluoromethane	101		2.513					ND	
17 Ethyl ether	59	2.788	2.785	0.003	90	12335		0.4083	
18 Acrolein	56		2.927					ND	
19 1,1-Dichloroethene	96		3.010					ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.033					ND	
23 Methylal	45		3.057					ND	
22 Iodomethane	142		3.152					ND	
24 Carbon disulfide	76		3.211					ND	
26 3-Chloro-1-propene	76		3.341					ND	
25 Acetonitrile	41		3.341					ND	
27 Methyl acetate	43		3.353					ND	
28 Methylene Chloride	84	3.450	3.448	0.002	85	62034		0.7674	
29 2-Methyl-2-propanol	59		3.554					ND	
31 Acrylonitrile	53		3.684					ND	
32 Methyl tert-butyl ether	73		3.684					ND	
30 trans-1,2-Dichloroethene	96		3.696					ND	
33 Hexane	86		3.921					ND	
34 1,1-Dichloroethane	63		4.063					ND	
35 Vinyl acetate	43		4.098					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Isopropyl ether	87		4.111					ND	
37 2-Chloro-1,3-butadiene	53		4.134					ND	
38 Tert-butyl ethyl ether	59		4.418					ND	
40 cis-1,2-Dichloroethene	96		4.560					ND	
39 2,2-Dichloropropane	77		4.560					ND	
41 2-Butanone (MEK)	43		4.584					ND	
42 Ethyl acetate	43		4.619					ND	
43 Propionitrile	54		4.643					ND	
44 Methacrylonitrile	41		4.761					ND	
45 Chlorobromomethane	128		4.773					ND	
46 Tetrahydrofuran	42		4.808					ND	
47 Chloroform	83		4.832					ND	
48 1,1,1-Trichloroethane	97		4.986					ND	
49 Cyclohexane	56		5.033					ND	
50 1,1-Dichloropropene	75		5.128					ND	
51 Carbon tetrachloride	117		5.128					ND	
52 Isobutyl alcohol	41		5.222					ND	
53 Benzene	78		5.305					ND	
54 1,2-Dichloroethane	62		5.329					ND	
55 Tert-amyl methyl ether	73		5.389					ND	
56 n-Heptane	100		5.506					ND	
57 n-Butanol	56		5.779					ND	
58 Trichloroethene	130		5.850					ND	
59 Ethyl acrylate	55		5.933					ND	
60 Methylcyclohexane	83		6.015					ND	
61 1,2-Dichloropropane	63		6.051					ND	
62 Methyl methacrylate	41		6.134					ND	
63 Dibromomethane	93		6.157					ND	
64 1,4-Dioxane	88		6.169					ND	
65 Dichlorobromomethane	83		6.287					ND	
66 2-Nitropropane	41		6.501					ND	
67 2-Chloroethyl vinyl ether	63		6.536					ND	
68 cis-1,3-Dichloropropene	75		6.678					ND	
69 4-Methyl-2-pentanone (MIBK)	43		6.808					ND	
71 trans-1,3-Dichloropropene	75		7.163					ND	
72 Ethyl methacrylate	69		7.222					ND	
73 1,1,2-Trichloroethane	97		7.341					ND	
74 Tetrachloroethene	164		7.459					ND	
75 1,3-Dichloropropane	76		7.483					ND	
76 2-Hexanone	43		7.554					ND	
77 n-Butyl acetate	56		7.649					ND	
78 Chlorodibromomethane	129		7.696					ND	
79 Tetrahydrothiophene	60		7.696					ND	
80 Ethylene Dibromide	107		7.814					ND	
82 Chlorobenzene	112		8.252					ND	
83 1,1,1,2-Tetrachloroethane	131		8.323					ND	
84 Ethylbenzene	106		8.346					ND	
85 m-Xylene & p-Xylene	106		8.453					ND	
86 o-Xylene	106		8.831					ND	
87 Styrene	104		8.843					ND	
88 Bromoform	173		9.044					ND	
89 Isopropylbenzene	105		9.175					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 1,4-Dichlorobutane	55		9.294					ND	
91 Cyclohexanone	55		9.305					ND	
92 1,1,2,2-Tetrachloroethane	83		9.470					ND	
93 Bromobenzene	156		9.494					ND	
94 1,2,3-Trichloropropane	110		9.530					ND	
95 trans-1,4-Dichloro-2-buten	53		9.530					ND	
96 N-Propylbenzene	120		9.577					ND	
97 2-Chlorotoluene	126		9.672					ND	
98 1,3,5-Trimethylbenzene	105		9.743					ND	
99 4-Chlorotoluene	126		9.778					ND	
100 tert-Butylbenzene	119		10.062					ND	
101 Pentachloroethane	167		10.098					ND	
102 1,2,4-Trimethylbenzene	105		10.109					ND	
103 sec-Butylbenzene	105		10.275					ND	
105 4-Isopropyltoluene	119		10.417					ND	
107 1,2,3-Trimethylbenzene	105		10.536					ND	
108 Benzyl chloride	126		10.630					ND	
110 1,2-Dichlorobenzene	146		10.867					ND	
111 1,2-Dibromo-3-Chloropropan	157		11.648					ND	
112 1,3,5-Trichlorobenzene	180		11.837					ND	
114 Hexachlorobutadiene	225		12.618					ND	
115 Naphthalene	128	12.704	12.713	-0.009	95	10850		0.4207	
116 1,2,3-Trichlorobenzene	180	12.952	12.961	-0.009	92	5819		0.1035	
117 2-Methylnaphthalene	142		14.026					ND	
126 3-Ethyltoluene	1		0.000					ND	
120 Propene oxide	1		0.000					ND	
118 1,3-Diethylbenzene TIC	1		0.000					ND	
119 2-Ethyltoluene	1		0.000					ND	
124 Ethylene oxide	1		0.000					ND	
122 Epichlorohydrin	1		0.000					ND	
S 128 1,2-Dichloroethene, Total	96		1.140					ND	
S 129 1,3-Dichloropropene, Total	75		6.760					ND	
S 130 Xylenes, Total	106		16.530					ND	
S 131 Trihalomethanes, Total	1		0.000					ND	
T 127 Chlorodifluoromethane TIC	51		1.592					ND	
T 132 Isobutylene TIC	56		1.700					ND	
T 134 Butyl Methacrylate TIC	1		9.760					ND	
T 135 Hexachloroethane TIC	1		11.050					ND	

Reagents:

VM50IS_00052	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00067	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00060	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4170.D

Injection Date: 29-Dec-2015 12:38:30

Instrument ID: A3UX10

Operator ID: 1904

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

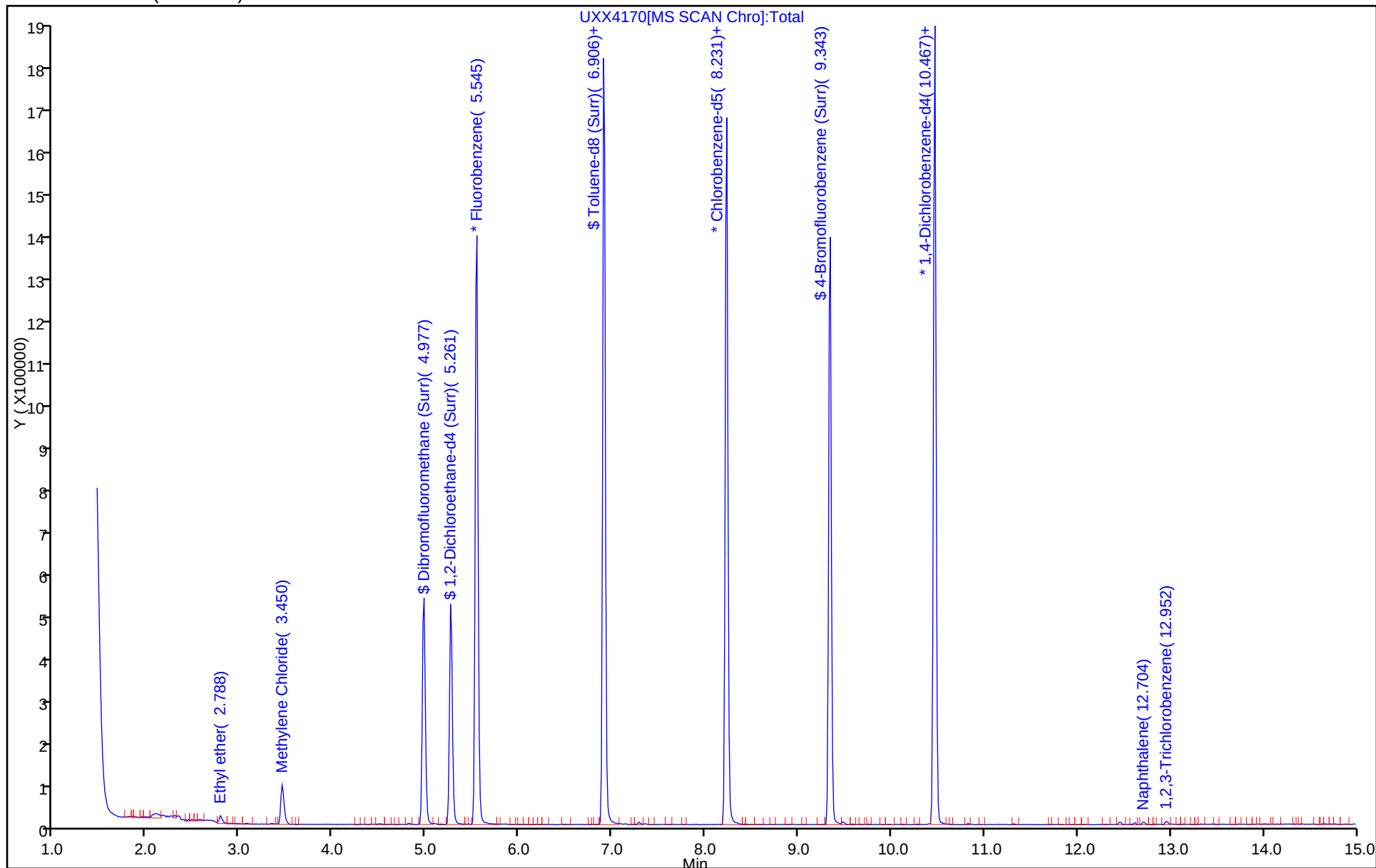
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4170.D

Injection Date: 29-Dec-2015 12:38:30

Instrument ID: A3UX10

Lims ID: MB

Client ID:

Operator ID: 1904

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 5.000 mL

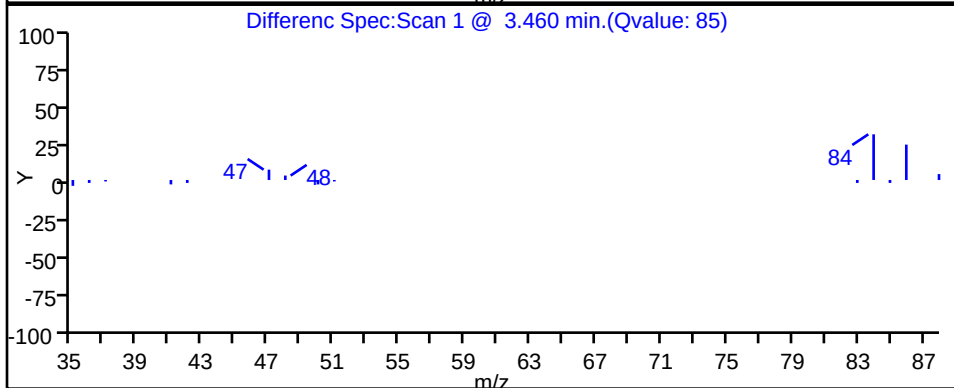
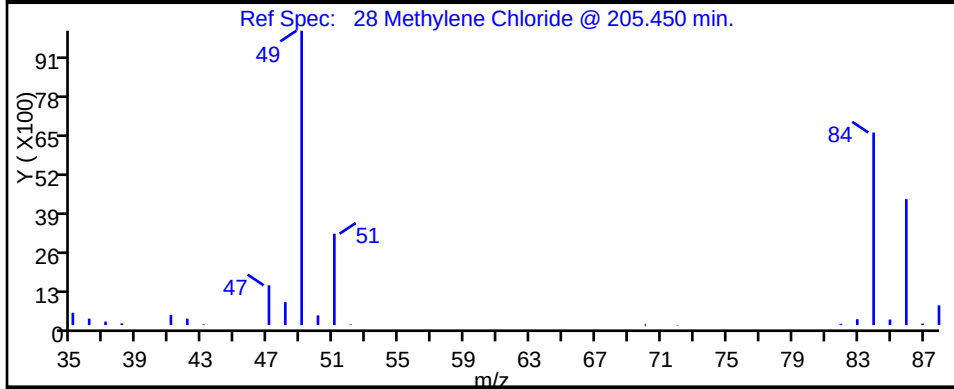
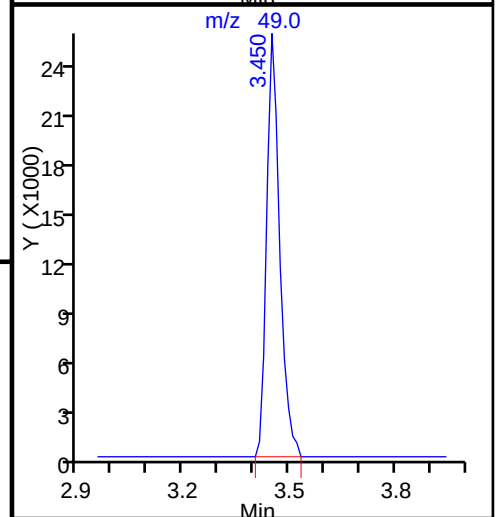
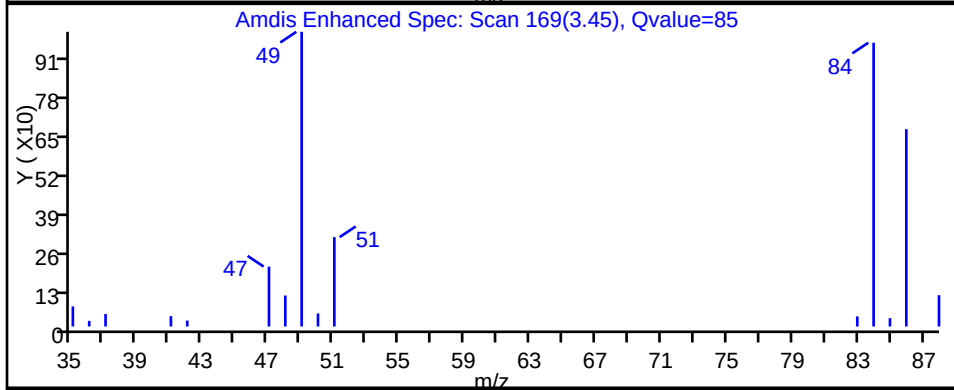
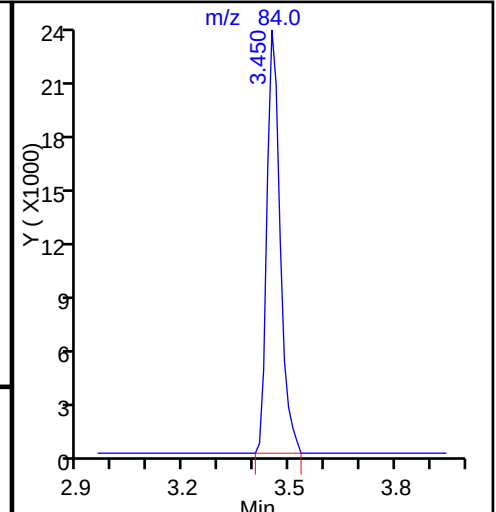
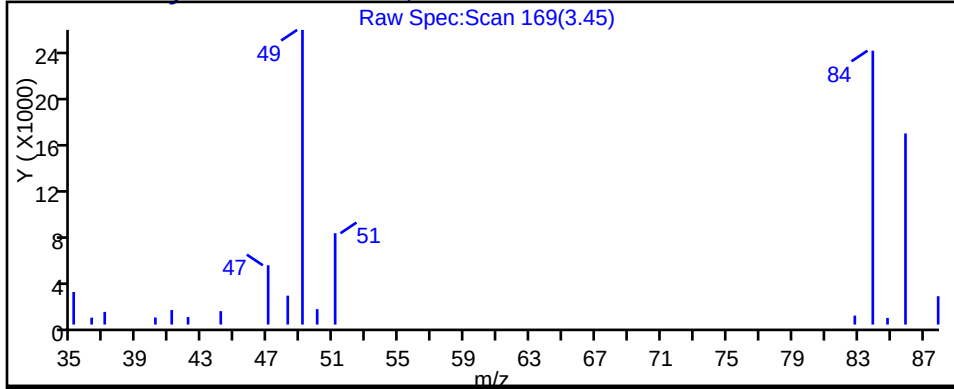
Dil. Factor: 1.0000

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

28 Methylene Chloride, CAS: 75-09-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 240-212432/4

Matrix: Water Lab File ID: UXX4168.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 11:54

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10.2		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	8.52		1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.88		1.0	0.45
79-00-5	1,1,2-Trichloroethane	9.26		1.0	0.24
75-34-3	1,1-Dichloroethane	9.70		1.0	0.30
75-35-4	1,1-Dichloroethene	9.06		1.0	0.45
120-82-1	1,2,4-Trichlorobenzene	9.11		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.97		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	9.65		2.0	0.82
106-93-4	1,2-Dibromoethane	9.50		1.0	0.32
95-50-1	1,2-Dichlorobenzene	9.67		1.0	0.25
107-06-2	1,2-Dichloroethane	9.38		1.0	0.23
78-87-5	1,2-Dichloropropane	9.85		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	9.88		1.0	0.48
541-73-1	1,3-Dichlorobenzene	9.35		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.37		1.0	0.27
78-93-3	2-Butanone (MEK)	17.1		10	0.53
591-78-6	2-Hexanone	18.2		10	0.48
108-10-1	4-Methyl-2-pentanone (MIBK)	18.3		10	0.99
67-64-1	Acetone	16.9		10	0.94
71-43-2	Benzene	9.65		1.0	0.35
75-27-4	Bromodichloromethane	10.1		1.0	0.29
75-25-2	Bromoform	9.18		1.0	0.56
74-83-9	Bromomethane	5.91		1.0	0.44
75-15-0	Carbon disulfide	9.72		1.0	0.38
56-23-5	Carbon tetrachloride	10.8		1.0	0.43
108-90-7	Chlorobenzene	9.45		1.0	0.25
75-00-3	Chloroethane	6.56		1.0	0.32
67-66-3	Chloroform	9.60		1.0	0.25
74-87-3	Chloromethane	9.06		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.75		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	10.7		1.0	0.46
110-82-7	Cyclohexane	9.51		1.0	0.45
124-48-1	Dibromochloromethane	10.2		1.0	0.43
75-71-8	Dichlorodifluoromethane	5.83		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-93136-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-212432/4
 Matrix: Water Lab File ID: UXX4168.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/29/2015 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 212432 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	9.95		1.0	0.25
98-82-8	Isopropylbenzene	10.6		1.0	0.35
179601-23-1	m,p-Xylene	9.92		2.0	0.24
79-20-9	Methyl acetate	45.6		10	2.3
1634-04-4	Methyl tert-butyl ether	9.75		1.0	0.20
108-87-2	Methylcyclohexane	9.73		1.0	0.43
75-09-2	Methylene Chloride	11.0		1.0	0.33
95-47-6	o-Xylene	10.2		1.0	0.25
100-42-5	Styrene	9.69		1.0	0.45
127-18-4	Tetrachloroethene	9.31		1.0	0.31
108-88-3	Toluene	9.51		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	9.80		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	9.84		1.0	0.56
79-01-6	Trichloroethene	9.78		1.0	0.22
75-69-4	Trichlorofluoromethane	9.18		1.0	0.49
75-01-4	Vinyl chloride	8.22		1.0	0.29
1330-20-7	Xylenes, Total	20.1		2.0	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
460-00-4	4-Bromofluorobenzene (Surr)	109		61-120
1868-53-7	Dibromofluoromethane (Surr)	98		79-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4168.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Dec-2015 11:54:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0050535-004
 Operator ID: 1904 Instrument ID: A3UX10
 Method: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\8260_10.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 29-Dec-2015 13:52:03 Calib Date: 10-Dec-2015 15:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX10\20151210-50067.b\UXX3725.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.542	5.542	0.000	100	1741344	10.0	10.0	
* 2 Chlorobenzene-d5	117	8.228	8.228	0.000	82	1391034	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.465	10.465	0.000	90	840590	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.974	4.974	0.000	95	403682	10.0	9.80	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.258	5.258	0.000	0	447678	10.0	9.62	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	91	1668467	10.0	9.85	
\$ 7 4-Bromofluorobenzene (Surr	95	9.341	9.340	0.001	96	635253	10.0	10.9	
9 Dichlorodifluoromethane	85	1.590	1.590	0.000	100	237069	10.0	5.83	
10 Chloromethane	50	1.756	1.755	0.001	99	397207	10.0	9.06	
11 Vinyl chloride	62	1.862	1.862	0.000	98	349336	10.0	8.22	
12 Butadiene	54	1.898	1.897	0.001	98	296497	10.0	7.60	
13 Bromomethane	94	2.194	2.193	0.001	89	132117	10.0	5.91	
14 Chloroethane	64	2.300	2.300	0.000	98	183542	10.0	6.56	
15 Dichlorofluoromethane	67	2.489	2.489	0.000	98	488278	10.0	8.30	
16 Trichlorofluoromethane	101	2.513	2.513	0.000	97	294317	10.0	9.18	
17 Ethyl ether	59	2.785	2.785	0.000	87	324617	10.0	9.62	
18 Acrolein	56	2.927	2.927	0.000	100	250472	50.0	40.8	
19 1,1-Dichloroethene	96	3.010	3.010	0.000	96	358428	10.0	9.06	
20 1,1,2-Trichloro-1,2,2-trif	151	3.022	3.033	-0.011	88	339080	10.0	8.88	
21 Acetone	43	3.069	3.069	0.000	100	210306	20.0	16.9	
22 Iodomethane	142	3.152	3.152	0.000	97	655700	10.0	9.10	
24 Carbon disulfide	76	3.211	3.211	0.000	99	946638	10.0	9.72	
26 3-Chloro-1-propene	76	3.341	3.341	0.000	90	204529	10.0	9.13	
27 Methyl acetate	43	3.353	3.353	0.000	97	1210741	50.0	45.6	
28 Methylene Chloride	84	3.448	3.448	0.000	85	469260	10.0	11.0	
29 2-Methyl-2-propanol	59	3.554	3.554	0.000	93	235847	100.0	100.2	
31 Acrylonitrile	53	3.684	3.684	0.000	100	1284729	100.0	94.0	
32 Methyl tert-butyl ether	73	3.684	3.684	0.000	88	1060656	10.0	9.75	
30 trans-1,2-Dichloroethene	96	3.696	3.696	0.000	92	431474	10.0	9.80	
33 Hexane	86	3.921	3.921	0.000	90	91066	10.0	9.80	
34 1,1-Dichloroethane	63	4.063	4.063	0.000	96	652608	10.0	9.70	
35 Vinyl acetate	43	4.099	4.098	0.001	97	476750	10.0	8.46	
40 cis-1,2-Dichloroethene	96	4.560	4.560	0.000	80	454090	10.0	9.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2,2-Dichloropropane	77	4.560	4.560	0.000	61	350930	10.0	10.4	
41 2-Butanone (MEK)	43	4.584	4.584	0.000	98	283726	20.0	17.1	
45 Chlorobromomethane	128	4.773	4.773	0.000	84	249241	10.0	9.63	
46 Tetrahydrofuran	42	4.809	4.808	0.001	94	180930	20.0	19.3	
47 Chloroform	83	4.832	4.832	0.000	92	694233	10.0	9.60	
48 1,1,1-Trichloroethane	97	4.986	4.986	0.000	98	542020	10.0	10.2	
49 Cyclohexane	56	5.033	5.033	0.000	86	507639	10.0	9.51	
50 1,1-Dichloropropene	75	5.128	5.128	0.000	95	525976	10.0	10.6	
51 Carbon tetrachloride	117	5.128	5.128	0.000	95	513752	10.0	10.8	
52 Isobutyl alcohol	41	5.223	5.222	0.001	92	246011	250.0	216.0	
53 Benzene	78	5.306	5.305	0.001	94	1654041	10.0	9.65	
54 1,2-Dichloroethane	62	5.329	5.329	0.000	98	528227	10.0	9.38	
56 n-Heptane	100	5.507	5.506	0.001	85	73248	10.0	9.50	
58 Trichloroethene	130	5.850	5.850	0.000	94	513283	10.0	9.78	
60 Methylcyclohexane	83	6.016	6.015	0.001	83	521509	10.0	9.73	
61 1,2-Dichloropropane	63	6.051	6.051	0.000	95	353493	10.0	9.85	
63 Dibromomethane	93	6.158	6.157	0.001	93	235633	10.0	9.50	
64 1,4-Dioxane	88	6.169	6.169	0.000	88	82120	200.0	204.3	
65 Dichlorobromomethane	83	6.288	6.287	0.001	99	478534	10.0	10.1	
67 2-Chloroethyl vinyl ether	63	6.536	6.536	0.000	93	208839	10.0	9.93	
68 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	96	546143	10.0	10.7	
69 4-Methyl-2-pentanone (MIBK)	43	6.808	6.808	0.000	94	544946	20.0	18.3	
70 Toluene	91	6.974	6.974	0.000	98	1861787	10.0	9.51	
71 trans-1,3-Dichloropropene	75	7.163	7.163	0.000	91	502853	10.0	9.84	
72 Ethyl methacrylate	69	7.222	7.222	0.000	87	442293	10.0	8.92	
73 1,1,2-Trichloroethane	97	7.329	7.341	-0.012	90	370662	10.0	9.26	
74 Tetrachloroethene	164	7.459	7.459	0.000	94	450984	10.0	9.31	
75 1,3-Dichloropropane	76	7.483	7.483	0.000	87	617226	10.0	9.22	
76 2-Hexanone	43	7.554	7.554	0.000	94	401055	20.0	18.2	
78 Chlorodibromomethane	129	7.696	7.696	0.000	89	410283	10.0	10.2	
80 Ethylene Dibromide	107	7.814	7.814	0.000	98	389967	10.0	9.50	
82 Chlorobenzene	112	8.252	8.252	0.000	97	1312959	10.0	9.45	
83 1,1,1,2-Tetrachloroethane	131	8.323	8.323	0.000	94	444324	10.0	10.1	
84 Ethylbenzene	106	8.347	8.346	0.001	97	679269	10.0	9.95	
85 m-Xylene & p-Xylene	106	8.453	8.453	0.000	98	841250	10.0	9.92	
86 o-Xylene	106	8.832	8.831	0.001	95	806306	10.0	10.2	
87 Styrene	104	8.844	8.843	0.001	95	1325098	10.0	9.69	
88 Bromoform	173	9.045	9.044	0.001	98	287341	10.0	9.18	
89 Isopropylbenzene	105	9.175	9.175	0.000	94	2028347	10.0	10.6	
92 1,1,2,2-Tetrachloroethane	83	9.471	9.470	0.001	97	456298	10.0	8.52	
93 Bromobenzene	156	9.494	9.494	0.000	88	638829	10.0	8.71	
94 1,2,3-Trichloropropane	110	9.530	9.530	0.000	85	173463	10.0	8.29	
95 trans-1,4-Dichloro-2-buten	53	9.530	9.530	0.000	79	113556	10.0	8.47	
96 N-Propylbenzene	120	9.577	9.577	0.000	98	572046	10.0	9.22	
97 2-Chlorotoluene	126	9.672	9.672	0.000	98	527928	10.0	9.17	
98 1,3,5-Trimethylbenzene	105	9.743	9.743	0.000	94	1638174	10.0	9.88	
99 4-Chlorotoluene	126	9.778	9.778	0.000	95	558974	10.0	9.00	
100 tert-Butylbenzene	119	10.062	10.062	0.000	90	1398529	10.0	9.97	
102 1,2,4-Trimethylbenzene	105	10.110	10.109	0.001	94	1710785	10.0	9.97	
103 sec-Butylbenzene	105	10.275	10.275	0.000	93	1784677	10.0	10.2	
104 1,3-Dichlorobenzene	146	10.405	10.405	0.000	96	1128370	10.0	9.35	
105 4-Isopropyltoluene	119	10.417	10.417	0.000	97	1652895	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,4-Dichlorobenzene	146	10.488	10.488	0.000	96	1190548	10.0	9.37	
109 n-Butylbenzene	91	10.820	10.831	-0.011	96	1143450	10.0	10.6	
110 1,2-Dichlorobenzene	146	10.855	10.867	-0.012	99	1101265	10.0	9.67	
111 1,2-Dibromo-3-Chloropropan	157	11.636	11.648	-0.012	92	91429	10.0	9.65	
113 1,2,4-Trichlorobenzene	180	12.453	12.464	-0.011	93	608998	10.0	9.11	
114 Hexachlorobutadiene	225	12.618	12.618	0.000	90	241052	10.0	8.58	
115 Naphthalene	128	12.713	12.713	0.000	100	1291919	10.0	8.19	
116 1,2,3-Trichlorobenzene	180	12.961	12.961	0.000	98	529006	10.0	7.86	
S 130 Xylenes, Total	106				0		20.0	20.1	
S 131 Trihalomethanes, Total	1				0		40.0	39.1	

Reagents:

VMFASPW_00132	Amount Added: 8.00	Units: uL	
VMFASAW_00115	Amount Added: 8.00	Units: uL	
VMFASGW_00131	Amount Added: 8.00	Units: uL	
VM50IS_00052	Amount Added: 1.00	Units: uL	Run Reagent
vm50ss_stk_00067	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00060	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX10\20151229-50535.b\UXX4168.D

Injection Date: 29-Dec-2015 11:54:30

Instrument ID: A3UX10

Lims ID: LCS

Operator ID: 1904

Client ID:

Worklist Smp#: 4

Purge Vol: 5.000 mL

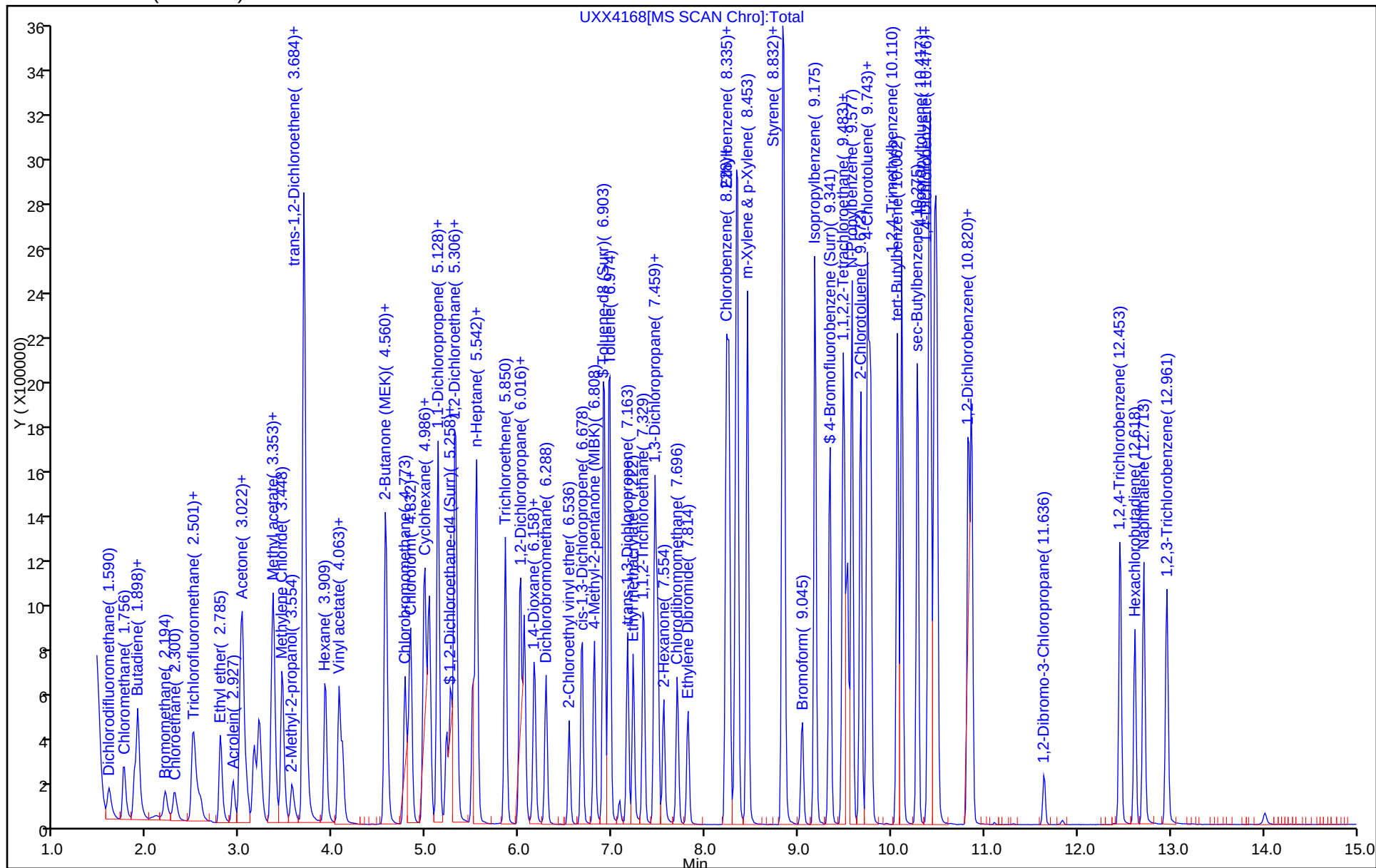
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260_10

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Instrument ID: A3UX10 Start Date: 11/19/2015 16:56Analysis Batch Number: 207666 End Date: 11/19/2015 22:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-207666/1		11/19/2015 16:56	1	BFB7326.D	DB-624 0.18 (mm)
STD8260 240-207666/2 IC		11/19/2015 17:28	1		DB-624 0.18 (mm)
STD8260 240-207666/3 IC		11/19/2015 17:49	1		DB-624 0.18 (mm)
STD8260 240-207666/4 ICIS		11/19/2015 18:11	1		DB-624 0.18 (mm)
STD8260 240-207666/5 IC		11/19/2015 18:33	1		DB-624 0.18 (mm)
STD8260 240-207666/6 IC		11/19/2015 18:55	1		DB-624 0.18 (mm)
STD8260 240-207666/7 IC		11/19/2015 19:17	1		DB-624 0.18 (mm)
ICV 240-207666/8		11/19/2015 19:39	1		DB-624 0.18 (mm)
STDA9 240-207666/9 IC		11/19/2015 20:00	1	UXX3191.D	DB-624 0.18 (mm)
STDA9 240-207666/10 IC		11/19/2015 20:22	1	UXX3192.D	DB-624 0.18 (mm)
STDA9 240-207666/11 IC		11/19/2015 20:44	1	UXX3193.D	DB-624 0.18 (mm)
STDA9 240-207666/12 IC		11/19/2015 21:06	1	UXX3194.D	DB-624 0.18 (mm)
STDA9 240-207666/13 IC		11/19/2015 21:28	1	UXX3195.D	DB-624 0.18 (mm)
STDA9 240-207666/14 IC		11/19/2015 21:50	1	UXX3196.D	DB-624 0.18 (mm)
ICV 240-207666/15		11/19/2015 22:12	1	UXX3197.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Instrument ID: A3UX10 Start Date: 12/10/2015 13:33Analysis Batch Number: 210268 End Date: 12/10/2015 17:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-210268/1		12/10/2015 13:33	1	BFB7354.D	DB-624 0.18 (mm)
STD8260 240-210268/2 IC		12/10/2015 13:55	1	UXX3720.D	DB-624 0.18 (mm)
STD8260 240-210268/3 IC		12/10/2015 14:17	1	UXX3721.D	DB-624 0.18 (mm)
STD8260 240-210268/4 ICIS		12/10/2015 14:38	1	UXX3722.D	DB-624 0.18 (mm)
STD8260 240-210268/5 IC		12/10/2015 15:00	1	UXX3723.D	DB-624 0.18 (mm)
STD8260 240-210268/6 IC		12/10/2015 15:23	1	UXX3724.D	DB-624 0.18 (mm)
STD8260 240-210268/7 IC		12/10/2015 15:45	1	UXX3725.D	DB-624 0.18 (mm)
ICV 240-210268/8		12/10/2015 16:07	1		DB-624 0.18 (mm)
ZZZZZ		12/10/2015 16:28	1		DB-624 0.18 (mm)
ZZZZZ		12/10/2015 17:12	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 480-93136-1

SDG No.: _____

Instrument ID: A3UX10 Start Date: 12/29/2015 09:58Analysis Batch Number: 212432 End Date: 12/29/2015 16:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-212432/1		12/29/2015 09:58	1	BFB7374.D	DB-624 0.18 (mm)
CCVIS 240-212432/2		12/29/2015 11:09	1	UXX4166.D	DB-624 0.18 (mm)
CCV 240-212432/3		12/29/2015 11:31	1	UXX4167.D	DB-624 0.18 (mm)
LCS 240-212432/4		12/29/2015 11:54	1	UXX4168.D	DB-624 0.18 (mm)
ZZZZZ		12/29/2015 12:17	1		DB-624 0.18 (mm)
MB 240-212432/6		12/29/2015 12:38	1	UXX4170.D	DB-624 0.18 (mm)
ZZZZZ		12/29/2015 13:01	166.67		DB-624 0.18 (mm)
ZZZZZ		12/29/2015 13:23	166.67		DB-624 0.18 (mm)
ZZZZZ		12/29/2015 14:29	166.67		DB-624 0.18 (mm)
ZZZZZ		12/29/2015 14:51	166.67		DB-624 0.18 (mm)
480-93136-1	WELL 1-2A	12/29/2015 15:13	1	UXX4177.D	DB-624 0.18 (mm)
480-93136-2	WELL 1-3	12/29/2015 15:35	1	UXX4178.D	DB-624 0.18 (mm)
480-93136-3	TRIP BLANK 122115	12/29/2015 15:57	1	UXX4179.D	DB-624 0.18 (mm)
ZZZZZ		12/29/2015 16:19	166.67		DB-624 0.18 (mm)
ZZZZZ		12/29/2015 16:40	166.67		DB-624 0.18 (mm)

Subcontract Data

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)					
Sampler:	Lab PM:	Carrier Tracking No(s):			
Phone:	E-Mail:				
Company: TestAmerica Laboratories, Inc.					
Address: 14101 Shuffel Street NW, City: North Canton State, Zip: OH-, 44720 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email:					
Project Name: NYSDEC-Standby VESTAL Site:					
Due Date Requested: 1/7/2016 TAT Requested (days): FO #: WO #: Project #: 48005198 SSON#:					
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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Special Instructions/Notes: MS					
Total Number of Containers					
Sample Identification - Client ID (Lab ID)					
Well	Sample Date	Sample Time	Sample Type (Comp, Grab)	Matrix (Solid, Liquid, Gas, Other)	Preservation Code
WELL 1-2A (480-93136-1)	12/21/15	09:40 Eastern	Water	Water	X
WELL 1-3 (480-93136-2)	12/21/15	09:45 Eastern	Water	Water	X
TRIP BLANK 122115 (480-93136-3)	12/21/15	Eastern	Water	Water	X
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: C Wallace Date/Time: 12/23/15 1700 EST Company: TestAmerica Laboratories, Inc. Received by: J Macquelin-Lemuel Date/Time: 12/24/15 1030 Company: TestAmerica Laboratories, Inc.					
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Δ Yes Δ No	Cooler Temperature(s) °C and Other Remarks:			

TestAmerica Canton Sample Receipt Form/Narrative

Login # : _____

Canton Facility

Client TA Buffalo

Site Name _____

Cooler unpacked by:

Cooler Received on 12/24/15Opened on 12/24/15G. JemelFedEx: 1st Grd ☒ Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

TestAmerica Cooler # _____ Foam Box ☒ Client Cooler ☒ Box Other _____Packing material used: Bubble Wrap ☒ Foam ☒ Plastic Bag None Other _____COOLANT: ☒ Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 53 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 48 (CF -0.3 °C) Observed Cooler Temp. 3.3 °C Corrected Cooler Temp. 3.0 °C

IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF -0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

☐ See Multiple
Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes ☒ No ☒ NA 12/24/15
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes ☒ No ☒ NA
 -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes ☒ No ☒ NA
 3. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☒ NA
 4. Did custody papers accompany the sample(s)? Yes ☒ No ☒ NA
 5. Were the custody papers relinquished & signed in the appropriate place? Yes ☒ No ☒ NA
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes ☒ No ☒ NA
 7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☒ NA
 8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☒ NA
 9. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☒ NA
 10. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☒ NA
 11. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☒ NA pH Strip Lot# HC559158
 12. Were VOAs on the COC? Yes ☒ No ☒ NA
 13. Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☒ NA
 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered Yes ☒ No ☒ NA
 15. Was a LL Hg or Me Hg trip blank present? Yes ☒ No ☒ NA
 Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-93136-1

Login Number: 93136

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.	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	



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

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: 10/13/2015 14:45
Reported: 10/21/2015 10:50

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5J0282-01
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:00

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5J0282-01
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:00

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Naphthalene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Toluene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2030	10/19/15 2030	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2030	10/19/15 2030	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/19/15 2030	10/19/15 2030	SAY
Surrogate: 4-Bromofluorobenzene	86.0		Limit: 70-130	% Rec		10/19/15 2030	10/19/15 2030	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.0		Limit: 70-130	% Rec		10/19/15 2030	10/19/15 2030	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5J0282-02
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:05



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5J0282-02
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:05

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Naphthalene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5J0282-02
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:05

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/15/15 1128	10/15/15 1128	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/15/15 1128	10/15/15 1128	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/15/15 1128	10/15/15 1128	SAY
Surrogate: 4-Bromofluorobenzene	86.6		Limit: 70-130	% Rec		10/15/15 1128	10/15/15 1128	SAY
Surrogate: 1,2-Dichlorobenzene-d4	77.8		Limit: 70-130	% Rec		10/15/15 1128	10/15/15 1128	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5J0282-03
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:10



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5J0282-03
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:10

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Naphthalene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5J0282-03
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:10

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/15/15 1200	10/15/15 1200	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/15/15 1200	10/15/15 1200	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/15/15 1200	10/15/15 1200	SAY
Surrogate: 4-Bromofluorobenzene	87.0		Limit: 70-130	% Rec		10/15/15 1200	10/15/15 1200	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.2		Limit: 70-130	% Rec		10/15/15 1200	10/15/15 1200	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5J0282-04
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:15



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5J0282-04
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:15

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Naphthalene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5J0282-04
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:15

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2102	10/19/15 2102	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2102	10/19/15 2102	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/19/15 2102	10/19/15 2102	SAY
Surrogate: 4-Bromofluorobenzene	77.8		Limit: 70-130	% Rec		10/19/15 2102	10/19/15 2102	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.4		Limit: 70-130	% Rec		10/19/15 2102	10/19/15 2102	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5J0282-05
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:25



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5J0282-05
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:25

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Naphthalene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5J0282-05
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:25

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,1,1-Trichloroethane	0.600	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Trichloroethene	1.23	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2135	10/19/15 2135	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2135	10/19/15 2135	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/19/15 2135	10/19/15 2135	SAY
Surrogate: 4-Bromofluorobenzene	82.8		Limit: 70-130	% Rec		10/19/15 2135	10/19/15 2135	SAY
Surrogate: 1,2-Dichlorobenzene-d4	80.0		Limit: 70-130	% Rec		10/19/15 2135	10/19/15 2135	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5J0282-06
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:30



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5J0282-06
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Naphthalene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5J0282-06
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 11:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2207	10/19/15 2207	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2207	10/19/15 2207	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/19/15 2207	10/19/15 2207	SAY
Surrogate: 4-Bromofluorobenzene	83.8		Limit: 70-130	% Rec		10/19/15 2207	10/19/15 2207	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.6		Limit: 70-130	% Rec		10/19/15 2207	10/19/15 2207	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5J0282-07
Sample Type: Trip Blank

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 15:20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5J0282-07
Sample Type: Trip Blank

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 15:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Methyl tert-butyl ether (MTBE)	<0.500	10.0	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Naphthalene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Styrene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5J0282-07
Sample Type: Trip Blank

Collected By: Bethany Robinson
Collection Date: 10/13/15
Collection Time: 15:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2239	10/19/15 2239	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	10/19/15 2239	10/19/15 2239	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		10/19/15 2239	10/19/15 2239	SAY
Surrogate: 4-Bromofluorobenzene	80.0		Limit: 70-130	% Rec		10/19/15 2239	10/19/15 2239	SAY
Surrogate: 1,2-Dichlorobenzene-d4	72.8		Limit: 70-130	% Rec		10/19/15 2239	10/19/15 2239	SAY

Laboratory

SAY: Microbac Laboratories Inc., - Sayre

Definitions

MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit
Y: This analyte is not on the laboratory's current Scope of Accreditation.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 4.2°C

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Sayre
NY Lab ID No.: 11216

New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5J0282

Report Comments

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Go Green: Contact Anna Tubbs to set up email reporting and invoicing options .

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. For any feedback concerning our services, please contact Anna Tubbs at anna.tubbs@microbac.com. You may also contact Trevor Boyce President, at president@microbac.com.

Reviewed and Approved By:

A handwritten signature in blue ink, appearing to read "Anna", followed by a long horizontal flourish.

Anna Tubbs
Project Manager
10/21/2015 10:50



Microbac Laboratories, Inc., New York Division

J5J0282Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **10/13/2015****Sample ID: 1-3 Finished**

Lab Sample ID: **J5J0282-04**
 Matrix: **Drinking Water**
 Type: **Grab**

Sampled Date & Time: 10/13/15 1115

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
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: **J5J0282-05**
 Matrix: **Drinking Water**
 Type: **Grab**

Sampled Date & Time: 10/13/15 1125

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
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: **J5J0282-06**
 Matrix: **Drinking Water**
 Type: **Grab**

Sampled Date & Time: 10/13/15 1130

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
Total Containers:			2

Sample ID: Trip Blank

Lab Sample ID: **J5J0282-07**
 Matrix: **Drinking Water**
 Type: **Trip Blank**

Sampled Date & Time: 10/13/15 1520



Microbac Laboratories, Inc., New York Division

J5J0282Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **10/13/2015****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: **J5J0282-01**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 10/13/15 1100

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 <i>BVL</i>	14
Total Containers:			2

Sample ID: 1-2A FinishedLab Sample ID: **J5J0282-02**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 10/13/15 1105

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 <i>BVL</i>	14
Total Containers:			2

Sample ID: 1-3 RawLab Sample ID: **J5J0282-03**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 10/13/15 1110

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 <i>BVL</i>	14
Total Containers:			2



Microbac Laboratories, Inc., New York Division

J5J0282Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **10/13/2015**

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 <i>BNR</i>	14
Total Containers:			1

Sampled by: <i>Bethany Robinson</i>	Date/Time: <i>10/13/15 11:45</i>	Received by: _____
Printed Name: Bethany Robinson		Printed Name: _____
Relinquished by: _____	Date/Time: <i>10/13/15 14:45</i>	Received by: <i>Alayna Dawson</i>
Printed Name: _____		Printed Name: <i>Alayna Dawson</i>
Relinquished by: _____	Date/Time: _____	Received by: _____
Printed Name: _____		Printed Name: _____

As Recieved at Laboratory: On Ice: ☒ Yes / No Cooler Temp 4.22

Total Bottles 13

Notes:

Added via by BNR 10/12/2015 13:53



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

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: 11/10/2015 15:05
Reported: 11/18/2015 10:09

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5K0133-01
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:10

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5K0133-01
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:10

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Naphthalene	<0.500	50.0	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Toluene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2019	11/16/15 2019	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2019	11/16/15 2019	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/16/15 2019	11/16/15 2019	SAY
Surrogate: 4-Bromofluorobenzene	78.6		Limit: 70-130	% Rec		11/16/15 2019	11/16/15 2019	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.6		Limit: 70-130	% Rec		11/16/15 2019	11/16/15 2019	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5K0133-02
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:15



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5K0133-02
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:15

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5K0133-02
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:15

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2052	11/16/15 2052	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2052	11/16/15 2052	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/16/15 2052	11/16/15 2052	SAY
Surrogate: 4-Bromofluorobenzene	82.2		Limit: 70-130	% Rec		11/16/15 2052	11/16/15 2052	SAY
Surrogate: 1,2-Dichlorobenzene-d4	77.2		Limit: 70-130	% Rec		11/16/15 2052	11/16/15 2052	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5K0133-03
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5K0133-03
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY

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CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J5K0133-03
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2125	11/16/15 2125	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2125	11/16/15 2125	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/16/15 2125	11/16/15 2125	SAY
Surrogate: 4-Bromofluorobenzene	75.6		Limit: 70-130	% Rec		11/16/15 2125	11/16/15 2125	SAY
Surrogate: 1,2-Dichlorobenzene-d4	71.4		Limit: 70-130	% Rec		11/16/15 2125	11/16/15 2125	SAY



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CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5K0133-04
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:25



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CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5K0133-04
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:25

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY

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CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5K0133-04
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:25

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2158	11/16/15 2158	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/16/15 2158	11/16/15 2158	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/16/15 2158	11/16/15 2158	SAY
Surrogate: 4-Bromofluorobenzene	76.2		Limit: 70-130	% Rec		11/16/15 2158	11/16/15 2158	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.2		Limit: 70-130	% Rec		11/16/15 2158	11/16/15 2158	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5K0133-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:45



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CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5K0133-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:45

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY

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CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5K0133-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:45

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/17/15 0043	11/17/15 0043	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/17/15 0043	11/17/15 0043	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/17/15 0043	11/17/15 0043	SAY
Surrogate: 4-Bromofluorobenzene	78.4		Limit: 70-130	% Rec		11/17/15 0043	11/17/15 0043	SAY
Surrogate: 1,2-Dichlorobenzene-d4	74.2		Limit: 70-130	% Rec		11/17/15 0043	11/17/15 0043	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5K0133-06
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:50



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5K0133-06
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:50

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5K0133-06
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 11/10/15
Collection Time: 09:50

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/17/15 0116	11/17/15 0116	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/17/15 0116	11/17/15 0116	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/17/15 0116	11/17/15 0116	SAY
Surrogate: 4-Bromofluorobenzene	77.0		Limit: 70-130	% Rec		11/17/15 0116	11/17/15 0116	SAY
Surrogate: 1,2-Dichlorobenzene-d4	71.8		Limit: 70-130	% Rec		11/17/15 0116	11/17/15 0116	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5K0133-07
Sample Type: Trip Blank

Collected By: Bethany Robinson
Collection Date: 11/05/15
Collection Time: 16:02



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5K0133-07
Sample Type: Trip Blank

Collected By: Bethany Robinson
Collection Date: 11/05/15
Collection Time: 16:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Styrene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5K0133-07
Sample Type: Trip Blank

Collected By: Bethany Robinson
Collection Date: 11/05/15
Collection Time: 16:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	11/17/15 0149	11/17/15 0149	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	11/17/15 0149	11/17/15 0149	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		11/17/15 0149	11/17/15 0149	SAY
Surrogate: 4-Bromofluorobenzene	83.2		Limit: 70-130	% Rec		11/17/15 0149	11/17/15 0149	SAY
Surrogate: 1,2-Dichlorobenzene-d4	75.2		Limit: 70-130	% Rec		11/17/15 0149	11/17/15 0149	SAY

Laboratory

SAY: Microbac Laboratories Inc., - Sayre

Definitions

MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit
Y: This analyte is not on the laboratory's current Scope of Accreditation.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.7°C

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Sayre
NY Lab ID No.: 11216

New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5K0133

Report Comments

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Go Green: Contact Anna Tubbs to set up email reporting and invoicing options .

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. For any feedback concerning our services, please contact Anna Tubbs at anna.tubbs@microbac.com. You may also contact Trevor Boyce President, at president@microbac.com.

Reviewed and Approved By:

A handwritten signature in blue ink, appearing to read "Anna", followed by a horizontal line.

Anna Tubbs
Project Manager
11/18/2015 10:09



Microbac Laboratories, Inc., New York Division

J5K0133Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **11/10/2015****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: **J5K0133-01**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 11/10/15 0910

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

Total Containers: **2****Sample ID: 1-2A Finished**Lab Sample ID: **J5K0133-02**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 11/10/15 0915

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

Total Containers: **2****Sample ID: 1-3 Raw**Lab Sample ID: **J5K0133-03**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 11/10/15 0920

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

Total Containers: **2**



Microbac Laboratories, Inc., New York Division

J5K0133Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **11/10/2015****Sample ID: 1-3 Finished**

Lab Sample ID: **J5K0133-04**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11/10/15 0935

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
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: **J5K0133-05**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11/10/15 0945

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
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: **J5K0133-06**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 11/10/15 0950

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
Total Containers:			2

Sample ID: Trip Blank

Lab Sample ID: **J5K0133-07**
Matrix: **Drinking Water**
Type: **Trip Blank**

Sampled Date & Time: 11/10/15 1602



Microbac Laboratories, Inc., New York Division

J5K0133Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **11/10/2015**

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		
			Total Containers:	1	
Sampled by:		Date/Time:	Received by:		
Bethany Robinson <i>Bethany Robinson</i>		11/10/15 <i>low</i>	Printed Name:		
Relinquished by:		Date/Time:	Received by:		
Printed Name:		11/10/15 15:05	Alayna Dawson <i>Alayna Dawson</i>		
Relinquished by:		Date/Time:	Received by:		
Printed Name:			Printed Name:		
As Recieved at Laboratory:		On Ice: ☒ Yes / No	Cooler Temp	Total Bottles	
			51.7°C	13	

Notes:

Added via Route Sheets by BNR 11/05/2015 15:25



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

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: 12/22/2015 16:00
Reported: 01/15/2016 12:04

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5L0806-01
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J5L0806-01
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Naphthalene	<0.500	50.0	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Styrene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Toluene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	01/04/16 1832	01/04/16 1832	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	01/04/16 1832	01/04/16 1832	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		01/04/16 1832	01/04/16 1832	SAY
Surrogate: 4-Bromofluorobenzene	72.6		Limit: 70-130	% Rec		01/04/16 1832	01/04/16 1832	SAY
Surrogate: 1,2-Dichlorobenzene-d4	75.6		Limit: 70-130	% Rec		01/04/16 1832	01/04/16 1832	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5L0806-02
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:05



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5L0806-02
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:05

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Styrene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J5L0806-02
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:05

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0519	12/30/15 0519	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0519	12/30/15 0519	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		12/30/15 0519	12/30/15 0519	SAY
Surrogate: 4-Bromofluorobenzene	75.4		Limit: 70-130	% Rec		12/30/15 0519	12/30/15 0519	SAY
Surrogate: 1,2-Dichlorobenzene-d4	73.6		Limit: 70-130	% Rec		12/30/15 0519	12/30/15 0519	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5L0806-04
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:09



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5L0806-04
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:09

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Styrene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY

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CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J5L0806-04
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:09

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0552	12/30/15 0552	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0552	12/30/15 0552	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		12/30/15 0552	12/30/15 0552	SAY
Surrogate: 4-Bromofluorobenzene	71.0		Limit: 70-130	% Rec		12/30/15 0552	12/30/15 0552	SAY
Surrogate: 1,2-Dichlorobenzene-d4	80.8		Limit: 70-130	% Rec		12/30/15 0552	12/30/15 0552	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5L0806-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5L0806-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Styrene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY

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CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J5L0806-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:20

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0624	12/30/15 0624	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0624	12/30/15 0624	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		12/30/15 0624	12/30/15 0624	SAY
Surrogate: 4-Bromofluorobenzene	78.0		Limit: 70-130	% Rec		12/30/15 0624	12/30/15 0624	SAY
Surrogate: 1,2-Dichlorobenzene-d4	79.8		Limit: 70-130	% Rec		12/30/15 0624	12/30/15 0624	SAY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5L0806-06
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:23



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5L0806-06
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:23

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Styrene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY

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CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J5L0806-06
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 12/22/15
Collection Time: 08:23

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0657	12/30/15 0657	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0657	12/30/15 0657	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		12/30/15 0657	12/30/15 0657	SAY
Surrogate: 4-Bromofluorobenzene	79.0		Limit: 70-130	% Rec		12/30/15 0657	12/30/15 0657	SAY
Surrogate: 1,2-Dichlorobenzene-d4	76.8		Limit: 70-130	% Rec		12/30/15 0657	12/30/15 0657	SAY



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CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5L0806-07
Sample Type: Trip Blank

Collected By: BNR-Lab
Collection Date: 12/21/15
Collection Time: 15:30



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5L0806-07
Sample Type: Trip Blank

Collected By: BNR-Lab
Collection Date: 12/21/15
Collection Time: 15:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Styrene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J5L0806-07
Sample Type: Trip Blank

Collected By: BNR-Lab
Collection Date: 12/21/15
Collection Time: 15:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0729	12/30/15 0729	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	12/30/15 0729	12/30/15 0729	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		12/30/15 0729	12/30/15 0729	SAY
Surrogate: 4-Bromofluorobenzene	79.0		Limit: 70-130	% Rec		12/30/15 0729	12/30/15 0729	SAY
Surrogate: 1,2-Dichlorobenzene-d4	71.0		Limit: 70-130	% Rec		12/30/15 0729	12/30/15 0729	SAY

Laboratory

SAY: Microbac Laboratories, Inc., Sayre Division

Definitions

MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit
Y: This analyte is not on the laboratory's current scope of accreditation.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 5.7°C

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc., Sayre Division
NY Lab ID No.: 11216

New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J5L0806

Report Comments

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Go Green: Contact Michael Fifield to set up email reporting and invoicing options.

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. For any feedback concerning our services, please contact Michael Fifield at michael.fifield@microbac.com. You may also contact Trevor Boyce President, at president@microbac.com.

Reviewed and Approved By:

A handwritten signature in black ink, appearing to read "Charlene McSparron".

Charlene McSparron For Michael Fifield
Division Manager
01/15/2016 12:04



Microbac Laboratories, Inc., New York Division

J5L0806Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **12/8/2015**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: **J5L0806-01**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 12/22/15 0802

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
Total Containers: 2			

Sample ID: 1-2A Finished

Lab Sample ID: **J5L0806-02**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 12/22/15 0805

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
Total Containers: 2			

Sample ID: 1-3 Raw

Lab Sample ID: **J5L0806-03**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 12/22/15 0807

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
Total Containers: 2			



Microbac Laboratories, Inc., New York Division

J5L0806Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **12/8/2015****Sample ID: 1-3 Finished**Lab Sample ID: **J5L0806-04**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 12/22/15 0809

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
Total Containers: 2			

Sample ID: 4-2 RawLab Sample ID: **J5L0806-05**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 12/22/15 0820

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
Total Containers: 2			

Sample ID: 4-2 FinishedLab Sample ID: **J5L0806-06**
Matrix: **Drinking Water**
Type: **Grab**Sampled Date & Time: 12/22/15 0923

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
Total Containers: 2			

Sample ID: Trip BlankLab Sample ID: **J5L0806-07**
Matrix: **Drinking Water**
Type: **Trip Blank**Sampled Date & Time: 12/22/15 1530



Microbac Laboratories, Inc., New York Division

J5L0806Client: **TOWN OF VESTAL**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **CRT-NY-Region-Southern Tier**Tenatively Scheduled: **12/8/2015**

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
Total Containers: 1			
Sampled by: <i>Bethany Robinson</i>	Date/Time: <i>12/22/15 0827</i>	Received by: <i>Anne Taber</i>	
Printed Name: Bethany Robinson		Printed Name: Anne Taber	
Relinquished by: _____	Date/Time: _____	Received by: _____	
Printed Name: _____		Printed Name: _____	
Relinquished by: _____	Date/Time: _____	Received by: _____	
Printed Name: _____		Printed Name: _____	

As Recieved at Laboratory: On Ice: ☒ Yes / ☐ No Cooler Temp *5.7C*

Total Bottles 13

Notes:

Added via Route Sheets by BNR 12/21/2015 15:18