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Subject:
NYSEG Cortland-Homer Former MGP Site
Homer, New York
NYSDEC Site #7-12-005
2018 Annual Groundwater Monitoring Report

ENVIRONMENT

Date:
October 29, 2018

Contact:
John C. Brussel, P.E.

Phone:
315.671.9441

Email:
John.Brussel@arcadis.com

Our ref:
B0013123.1802 #11

Dear Mr. Starr:

On behalf of New York State Electric & Gas Corporation (NYSEG), this report summarizes the 2018 annual groundwater monitoring at the Cortland-Homer former manufactured gas plant (MGP) site in Homer, New York (the Site). Arcadis of New York, Inc. (Arcadis) implemented the groundwater monitoring during the week of September 3, 2018 in accordance with the following:

- The New York State Department of Environmental Conservation- (NYSDEC-) approved *Site Management Plan* (SMP; Arcadis, March 2016).
- The *2017 Annual Groundwater Monitoring Report and Groundwater Monitoring Well Decommissioning Summary* (2017 Groundwater Report; Arcadis, November 2017), which was conditionally approved by the NYSDEC on August 29, 2018 and includes modifications to the sampling program presented in the SMP.

The 2018 monitoring event involved sampling a smaller set of wells than 2017 (three wells instead of 10 wells) as supported by historical data. As summarized herein, the analytical data from the 2018 annual groundwater monitoring event continue to indicate that the area of groundwater impacted by the former MGP remains relatively small and concentrations of constituents in the three wells are approximately the same as those observed in previous post-remediation monitoring events. The data continue to demonstrate that the upland soil remedy is effective, and the remaining wells are appropriate for future monitoring.

Relevant background information is presented below, followed by a summary of the groundwater monitoring fieldwork and findings.

I. BACKGROUND

Remedial activities at the Site were substantially completed between July 2012 and February 2013, and final site restoration was performed in May/June 2013. The remedial activities primarily involved: (1) in-situ soil solidification (ISS) of approximately 55,000 cubic yards of soil in two separate operable units (OU) on opposite sides of US Route 11 (i.e., Operable Units OU-1 and OU-2 located on the west and east sides of the roadway, respectively); and (2) installation of two vertical barrier walls (sealed steel sheet pile walls) connecting the ISS monoliths in OU-1 and OU-2 and extending beneath Route 11. The OU-1 and OU-2 locations, ISS remedial limits, and vertical barrier wall locations are shown on Figure 1. ISS treatment columns extended vertically into an underlying silt/clay layer up to 50 feet below ground surface. ISS was performed to encapsulate coal tar dense non-aqueous phase liquid (DNAPL) and site-related chemical constituents in soil to reduce or eliminate: (1) the release of constituents from soil to groundwater; and (2) migration of coal tar DNAPL beyond site boundaries. The vertical barrier walls beneath Route 11 were driven into the clay confining layer to divert groundwater around potentially-impacted soils below the roadway.

Groundwater monitoring was performed in June 2012 (approximately one month prior to the start of remedial construction) to evaluate baseline conditions. Post-remediation groundwater monitoring was performed in November 2013, September 2015, October 2016, and September 2017 to assess groundwater flow patterns and water quality following remediation. In addition, an investigation was performed from October to December 2013 to assess the nature, extent, and recoverability of an area of petroleum-based light non-aqueous phase liquid (LNAPL) encountered during remediation in the southeastern corner of OU-1, around monitoring well MW-11. Eight wells were gauged for LNAPL weekly throughout November and December 2013. The investigation findings indicated that recoverable LNAPL was limited to the immediate vicinity of MW-11, but MW-11 was not ideally constructed to recover LNAPL. Arcadis subsequently installed a new well (MW-36) adjacent to MW-11 in April 2014. Additional LNAPL gauging was performed weekly in April and May 2014, and then monthly from June 2014 through January 2015. The LNAPL gauging results, which are presented in January 30, 2015 e-mail correspondence from Arcadis to the New York State Department of Environmental Conservation (NYSDEC), indicated that no recoverable NAPL was encountered during the gauging period except for 0.7 gallons removed from MW-11 (mixture of LNAPL and water).

Monitoring wells that were no longer needed for water level gauging or sampling (a total of nine offsite wells) were decommissioned in 2017 as summarized in the 2017 Groundwater Report.

II. 2018 GROUNDWATER MONITORING ACTIVITIES

The 2018 annual groundwater monitoring event included: (1) collecting a synoptic round of water-level measurements from the 15 remaining monitoring wells; (2) checking each well for LNAPL and DNAPL with a dual-interface probe; and (3) collecting groundwater samples from three monitoring wells (MW-12, MW-17, and MW-28S) for laboratory analysis as proposed in the 2017 Groundwater Report. Refer to Figure 1 for the well locations. Arcadis measured water levels and performed NAPL gauging on September 4, 2018. Arcadis collected groundwater samples on September 5, 2018. The fieldwork was performed in accordance with the protocols presented in Section 3.3.1 of the SMP.

Before beginning sampling, Arcadis measured water levels from the following monitoring wells:

- One well west of the railroad tracks (MW-1).
- Seven wells between the railroad tracks and US Route 11 (MW-11, MW-12, MW-30S, MW-31A, MW-32A, MW-33, and MW-36).
- Seven wells between US Route 11 and the Tioughnioga River (MW-6, MW-13, MW-14R, MW-17, MW-18, MW-28S, and MW-28D).

Arcadis obtained depth-to-bottom measurements from each of the above-identified wells. Trace LNAPL was encountered in MW-11 at a thickness of approximately 0.05 feet. Historically, LNAPL had been observed in this well at thicknesses from 0.08 to 0.30 feet following remediation. LNAPL was not encountered in any other wells during the September 2018 monitoring event, including MW-36 where LNAPL has occasionally been identified in the past. The water-level measurements and calculated groundwater elevations are presented in Table 1. The groundwater elevations were used to prepare a map of the water table (Figure 1). Similar to previous observations, groundwater near the site continues to flow toward the east/southeast. Locally, groundwater is directed around the ISS monoliths and vertical barrier walls. Groundwater elevations are within the range of historical measurements.

Groundwater samples were collected from monitoring wells MW-12, MW-17, and MW-28S using the low-flow method described in Section 3.3.1.1 of the SMP. A groundwater sample was not collected from MW-11 because of the LNAPL observed in the well. Field-parameter measurements obtained during well purging prior to sampling are presented on the groundwater sampling logs included as Attachment A to this letter.

The groundwater samples were submitted to Test America of Amherst, New York where they were analyzed as follows: (1) samples from MW-12 and MW-28S were analyzed for total cyanide; and (2) the sample from MW-17 was analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). One set of quality assurance/quality control samples, consisting of a field duplicate, matrix spike, matrix spike duplicate, and a trip blank, was also collected and analyzed.

III. 2018 GROUNDWATER MONITORING RESULTS

Arcadis validated the groundwater analytical results and found the results to be useable as intended. The data validation report and full laboratory analytical data report (NYSDEC Analytical Services Protocol Category B data deliverables package) are provided as electronic attachments in the PDF version of this report (e-mailed to the NYSDEC). The electronic data deliverables (EDDs) are being e-mailed to the NYSDEC separately for upload to the NYSDEC's EQuIS database.

The validated groundwater analytical results are presented in Table 2. This table also provides the corresponding ambient water quality standards and guidance values for each analyte as presented in the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", last

updated June 2004. Results that exceed these criteria are shaded in the table. Groundwater analytical results for constituents exceeding the water quality standards/guidance values are shown on Figure 2.

The 2018 groundwater analytical results are summarized below and compared to previous results:

- Benzene was the only BTEX compound detected in the 2018 groundwater sample from MW-17. The benzene concentration (estimated at 0.8 parts per billion [ppb]) is below the corresponding 1 ppb groundwater quality standard. This is the second monitoring event in which none of the BTEX compounds has been identified in groundwater from MW-17 at concentrations exceeding groundwater quality standards.

- Acenaphthene was the only PAH detected in the 2018 groundwater sample from MW-17. The acenaphthene concentration (24 ppb) is slightly greater than the corresponding 20 ppb groundwater quality guidance value. This latest acenaphthene concentration in MW-17 is consistent with or below concentrations identified in this well during the last four monitoring events.

- Total cyanide concentrations identified in the 2018 groundwater samples from MW-12 and MW-28S were generally consistent with concentrations identified in these wells during the previous monitoring events. Cyanide was detected at in the latest samples from MW-12 and MW-28S at concentrations of 7,500 ppb and 210 ppb, respectively, which exceed the 200-ppb groundwater quality standard. The previous highest concentration of cyanide identified at MW-12 (7,300 ppb) was in 2016. The 2018 total cyanide concentration in MW-28S is at the lower end of the range of concentrations observed following cleanup activities (200 to 270 ppb of cyanide). Both wells are north of and hydraulically side-gradient to the soil remediation footprint.

IV. CONCLUSIONS AND RECOMMENDATIONS

Overall, the BTEX, PAH, and cyanide groundwater analytical results for the three wells sampled in September 2018 are generally the same as or lower than the results for these same wells during the four previous post-remediation monitoring events. The concentrations of BTEX and PAHs (where detected) in the September 2018 sample from MW-17 are much lower than the concentrations identified in the June 2012 pre-remediation baseline sample from this well. Cyanide concentrations in groundwater at MW-12 and MW-28S have fluctuated nominally since June 2012. The observation of trace LNAPL in MW-11 in the 2018 monitoring event is consistent with previous observations. The data continue to indicate that a trace amount of LNAPL is limited to the southeast corner of OU-1.

As recommended in the NYSDEC-approved 2017 Groundwater Report, NYSEG will perform additional annual groundwater monitoring in 2019, unchanged from the 2018 event. The results of the 2019 annual groundwater monitoring event will be summarized in e-mail correspondence to the NYSDEC within approximately 30 days of receiving the validated data. The e-mail correspondence will also identify changes in data trends (if any), propose changes to the groundwater monitoring program (if necessary), and be supported by updated groundwater elevation and groundwater results tables, a potentiometric surface map, and an updated groundwater results figure. NYSEG will also provide the NYSDEC with updated groundwater data as an electronic data deliverable (EDD) for the NYSDEC's EQuIS database, following the data validation for the 2019 monitoring event.

The first triennial groundwater monitoring event will be performed in 2020 and will include water level/ NAPL gauging at all remaining monitoring wells and sampling of 10 wells (MW-1, MW-6, MW-12, MW-13, MW-14R, MW-17, MW-18, MW-28S/D, and MW-30S)[1]. The results of the triennial monitoring will be summarized in the Periodic Review Report (PRR) for that period (once the Certificate of Completion is awarded). If the PRR is not scheduled to be prepared within six months of the groundwater sampling event, the results will be summarized in a letter report supported by updated tables, figures, groundwater monitoring logs, laboratory analytical reports, and data validation reports.

Please feel free to contact Tracy Blazicek (NYSEG) at 607.764.8839 or me at 315.671.9441 if you have any comments/questions or need additional information.

Sincerely,

Arcadis of New York, Inc.

John C. Brussel

John C. Brussel, P.E.
Principal Engineer

Copies:
Mr. Tracy L. Blazicek, CHMM, PMP, NYSEG (via e-mail & US Mail)
Mr. Keith A. White, CPG, Arcadis (via e-mail)

Enclosures:

Tables

1 Summary of NAPL and Water Level Gauging Data
2 Groundwater Analytical Results

Figures

1 Water-Table Map – September 4, 2018
2 Groundwater Analytical Results

Attachment

A Groundwater Sampling Logs

Electronic Attachment (e-mail only)

Data Validation Report
Laboratory Analytical Report

[1] Sampling will also be performed at MW-11 in 2020 if no NAPL is identified in MW-11.

TABLES

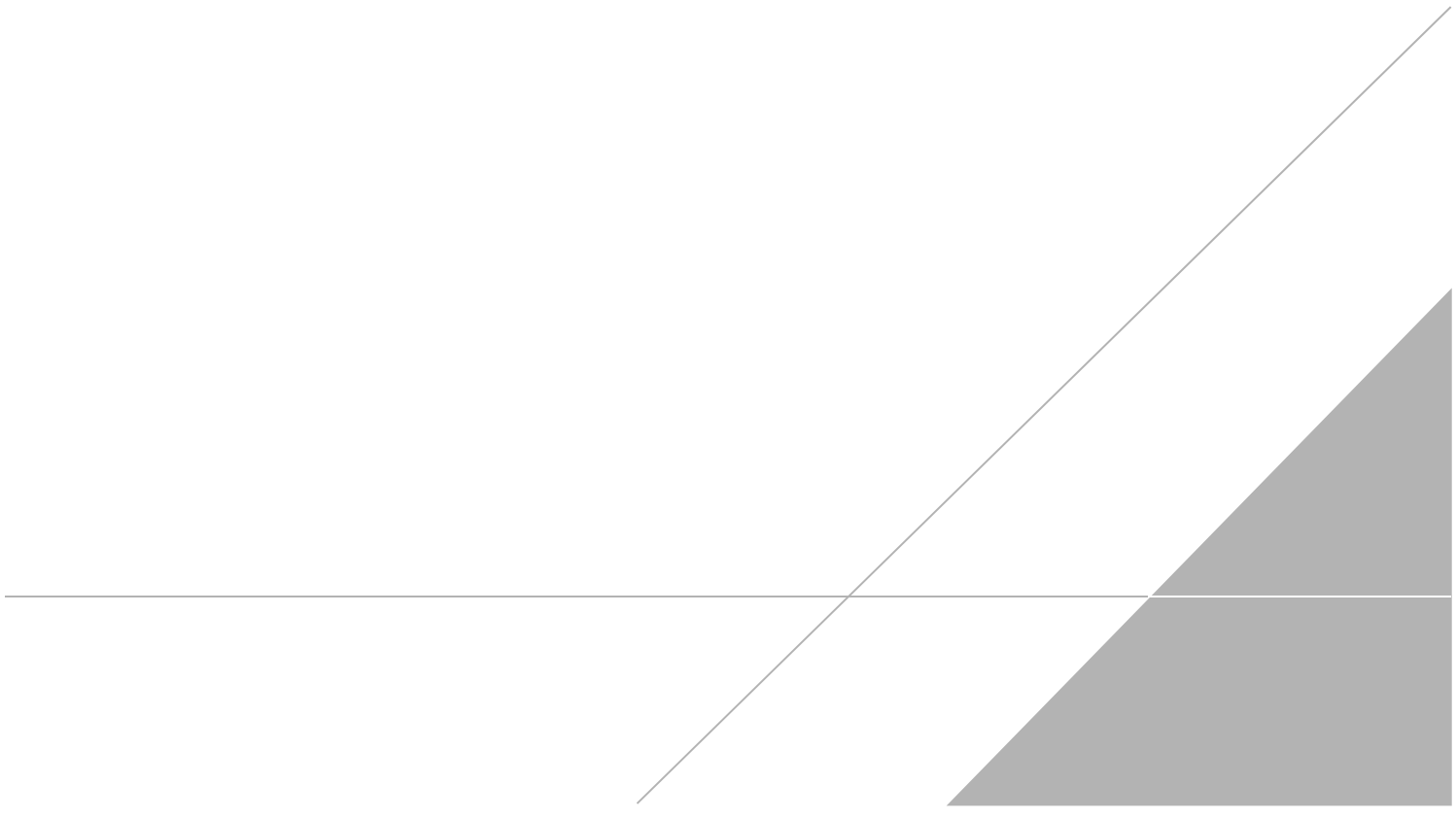

Table 1
Summary of NAPL and Water Level Gauging Data

2018 Annual Groundwater Monitoring Report
Cortland-Homer Former MGP Site - Homer, New York

Monitoring Well ID	Top of Inner Casing (TIC) Elevation (feet AMSL)	Depth to Water (feet below TIC)						Approximate LNAPL Thickness* (feet)						Groundwater Elevation (feet amsl)					
		6/25/12	11/5/13	9/14/15	10/18/16	9/12/17	9/5/18	6/25/12	11/5/13	9/14/15	10/18/16	9/12/17	9/5/18	6/25/12	11/5/13	9/14/15	10/18/16	9/12/17	9/5/18
MW-1	1116.25	-	5.79	6.98	7.80	6.04	6.10	0.00	0.00	0.00	0.00	0.00	0.00	-	1110.46	1109.27	1108.45	1110.21	1110.15
MW-6	1113.07	4.67	4.20	5.04	5.22	4.61	4.64	0.00	0.00	0.00	0.00	0.00	0.00	1108.40	1108.87	1108.03	1107.85	1108.46	1108.43
MW-11	1114.97	6.68	6.05	7.31	buried***	6.82	6.80	0.22	0.30	0.00	0.00	0.08	0.05	1108.29	1109.19**	1107.66	buried***	1108.15	1108.17
MW-12	1115.23	6.46	5.61	6.51	6.65	6.10	6.12	0.00	0.00	0.00	0.00	0.00	0.00	1108.77	1109.62	1108.72	1108.58	1109.13	1109.11
MW-13	1113.47	5.09	4.55	5.51	5.70	4.97	4.99	0.00	0.00	0.00	0.00	0.00	0.00	1108.38	1108.92	1107.96	1107.77	1108.50	1108.48
MW-14R	1112.78	-	4.09	4.88	4.88	4.50	4.55	0.00	0.00	0.00	0.00	0.00	0.00	-	1108.69	1107.90	1107.90	1108.28	1108.23
MW-17	1114.75	6.68	6.12	6.86	7.11	6.73	6.71	0.00	0.00	0.00	0.00	0.00	0.00	1108.07	1108.63	1107.89	1107.64	1108.02	1108.04
MW-18	1114.81	6.57	6.01	6.76	6.93	6.51	6.49	0.00	0.00	0.00	0.00	0.00	0.00	1108.24	1108.80	1108.05	1107.88	1108.30	1108.32
MW-28S	1111.68	3.34	2.77	3.58	3.67	3.25	3.26	0.00	0.00	0.00	0.00	0.00	0.00	1108.34	1108.91	1108.10	1108.01	1108.43	1108.42
MW-28D	1111.50	3.22	2.65	6.43	3.55	3.15	3.12	0.00	0.00	0.00	0.00	0.00	0.00	1108.28	1108.85	1105.07	1107.95	1108.35	1108.38
MW-30S	1115.08	5.89	5.46	6.15	6.58	5.44	5.44	0.00	0.00	0.00	0.00	0.00	0.00	1109.19	1109.62	1108.93	1108.50	1109.64	1109.64
MW-31A	1115.30	-	6.42	7.31	8.10	6.73	6.79	0.00	0.00	Trace	0.30	0.00	0.00	-	1108.88	1107.99	1107.20	1108.57	1108.51
MW-32A	1115.78	-	6.75	7.77	8.21	7.15	7.17	0.00	0.00	0.06	0.01	0.00	0.00	-	1109.03	1108.01	1107.57	1108.63	1108.61
MW-33	1116.17	-	7.10	8.02	8.56	7.46	7.51	0.00	0.00	0.00	0.00	0.00	0.00	-	1109.07	1108.15	1107.61	1108.71	1108.66
MW-36	1114.96	-	-	7.16	7.78	6.64	6.69	0.00	0.00	0.00	0.09	0.02	0.00	-	-	1107.80	1107.18	1108.32	1108.27

Notes:
1. Elevations are shown in feet above mean sea level (AMSL) relative to the North Americal Vertical Datum of 1988 (NAVD88).
2. - = not available; NAPL = Non-Aqueous Phase Liquid; LNAPL= Light Non-Aqueous Phase Liquid; DNAPL = Dense Non-Aqueous Phase Liquid.
3. TIC = Top of Inner Casing.
4. * = No DNAPL has been identified in any of the monitoring wells during the groundwater monitoring events.
5. ** The groundwater elevation at MW-11 has been corrected for the presence of LNAPL, using an estimated LNAPL density of 0.9.
6. *** = MW-11 was buried under concrete during the October 2016 sampling event and later events. It could not be accessed.

Table 2
Groundwater Analytical Results (ppb)

2018 Annual Groundwater Monitoring Report
Cortland-Homer Former MGP Site - Homer, New York

Location ID:	NYSDEC Groundwater Standards/ *Guidance Values*	MW-1			MW-6					MW-11
Screen Interval (ft bgs):		15.5 - 20.5			26 - 31					7 - 13
Date Collected:		11/6/13	10/19/16	9/12/17	6/26/12	11/5/13	9/14/15	10/19/16	9/13/17	9/16/15
Volatile Organics										
Benzene	1	<0.500	<1.00	<1.00	<0.500	<0.500 J	<0.500 J [<0.500 J]	<1.00	<1.00	0.820 J
Ethylbenzene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J [<1.00 J]	<1.00	<1.00	<1.00 J
Toluene	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J [<1.00 J]	<1.00	<1.00	0.290 J
Xylenes (total)	5	<1.00	<2.00	<2.00	<1.00	<1.00	<1.00 J [<1.00 J]	<2.00	<2.00	0.330 J
Polycyclic Aromatic Hydrocarbons										
2-Methylnaphthalene	- -	<2.40	<24.0	<5.40	<2.20	<2.50	<2.00 [0.0440 J]	<24.0	<5.60	<2.00
Acenaphthene	20	<2.40	<24.0	<5.40	<2.20	<2.50	0.0370 J [0.0380 J]	<24.0	<5.60	4.60
Acenaphthylene	- -	<2.40	<24.0	<5.40	<2.20	<2.50	0.130 [0.120]	<24.0	<5.60	0.260
Anthracene	*50*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	0.110
Benzo(a)anthracene	*0.002*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.0510 [<0.0500]	<24.0	<5.60	<0.0510
Benzo(a)pyrene	ND	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	<0.100
Benzo(b)fluoranthene	*0.002*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.0510 J [<0.0500 J]	<24.0	<5.60	<0.0510 J
Benzo(g,h,i)perylene	- -	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	<0.100
Benzo(k)fluoranthene	*0.002*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	<0.100
Chrysene	*0.002*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	**0.0160 J**
Dibenzo(a,h)anthracene	- -	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	<0.100
Fluoranthene	*50*	<2.40	<24.0	<5.40	<2.20	<2.50	0.0450 J [0.0510 J]	<24.0	<5.60	0.0460 J
Fluorene	*50*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [0.0200 J]	<24.0	<5.60	1.10
Indeno(1,2,3-cd)pyrene	*0.002*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.100 [<0.100]	<24.0	<5.60	<0.100
Naphthalene	*10*	<2.40	<24.0	<5.40	<2.20 B	<2.50	0.0230 J [0.0270 J]	<24.0	<5.60	0.250 J
Phenanthrene	*50*	<2.40	<24.0	<5.40	<2.20	<2.50	<0.0510 [0.0300 J]	<24.0	<5.60	0.0380 J
Pyrene	*50*	<2.40	<24.0	<5.40	<2.20	<2.50	0.0580 J [0.0650 J]	<24.0	<5.60	0.150
Cyanide										
Total Cyanide	200	<10.0	<10.0 J	<10.0	<10.0	<10.0	<10.0 J [<10.0 J]	<10.0	<10.0	**370**

See Notes on Page 7

Table 2
Groundwater Analytical Results (ppb)

2018 Annual Groundwater Monitoring Report
Cortland-Homer Former MGP Site - Homer, New York

Location ID:	NYSDEC Groundwater Standards/ *Guidance Values*	MW-12						MW-13				
Screen Interval (ft bgs):		8 - 13						35.5 - 40.5				
Date Collected:		6/27/12	11/6/13	9/16/15	10/19/16	9/12/17	9/5/18	6/27/12	11/6/13	9/16/15	10/19/16	9/13/17
Volatile Organics												
Benzene	1	<0.500	<0.500	<0.500 J	<1.00	<1.00 [<1.00]	NA	<0.500	<0.500	<0.500 J	<1.00	<1.00
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	<1.00 J	<1.00	<1.00
Toluene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00 [<1.00]	NA	<1.00	<1.00	<1.00 J	<1.00	<1.00
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<2.00	<2.00 [<2.00]	NA	<1.00	<1.00	<1.00 J	<2.00	<2.00
Polycyclic Aromatic Hydrocarbons												
2-Methylnaphthalene	- -	<2.30	<2.50	<2.00 B	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<2.00	<5.00	<5.20
Acenaphthene	20	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Acenaphthylene	- -	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Anthracene	*50*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Benzo(a)anthracene	*0.002*	<2.30	<2.50	<0.0510	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.0510	<5.00	<5.20
Benzo(a)pyrene	ND	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Benzo(b)fluoranthene	*0.002*	<2.30	<2.50	<0.0510 J	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.0510 J	<5.00	<5.20
Benzo(g,h,i)perylene	- -	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Benzo(k)fluoranthene	*0.002*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Chrysene	*0.002*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Dibenzo(a,h)anthracene	- -	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Fluoranthene	*50*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Fluorene	*50*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Indeno(1,2,3-cd)pyrene	*0.002*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Naphthalene	*10*	<2.30	<2.50	<2.00 B	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<2.00	<5.00	<5.20
Phenanthrene	*50*	<2.30	<2.50	<0.0510	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.0510	<5.00	<5.20
Pyrene	*50*	<2.30	<2.50	<0.100	<5.10	<5.00 [<5.10]	NA	<2.20	<2.40	<0.100	<5.00	<5.20
Cyanide												
Total Cyanide	200	**2,600**	**3,000**	**6,500**	**7,300 J**	**5,800 [6,000]**	**7,500**	<10.0	<10.0	<10.0	<10.0 J	<10.0

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Table 2
Groundwater Analytical Results (ppb)

2018 Annual Groundwater Monitoring Report
Cortland-Homer Former MGP Site - Homer, New York

Location ID:	NYSDEC Groundwater Standards/ *Guidance Values*	MW-14	MW-14R				MW-17					
Screen Interval (ft bgs):		6.5 - 11.5	2.8 - 12.8				6 - 11					
Date Collected:		6/26/12	11/5/13	9/14/15	10/19/16	9/13/17	6/25/12	11/5/13	9/14/15	10/18/16	9/13/17	9/5/18
Volatile Organics												
Benzene	1	**14.5**	**17.0 J**	<0.500 J	<1.00	<1.00	**291 [304]**	**14.1 J**	**5.30 J**	**38.0**	<1.00	0.800 J
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	**258 [257]**	**17.5**	0.790 J	**14.0**	<1.00	<1.00
Toluene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	**16.0 [17.1]**	1.10	<1.00 J	0.900 J	<1.00	<1.00
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<2.00	<2.00	**157 J [144]**	1.70	0.240 J	**6.60**	<2.00	<2.00
Polycyclic Aromatic Hydrocarbons												
2-Methylnaphthalene	- -	<2.10	<2.40	<2.00	<4.70	<5.20	<2.20 [<2.20]	26.8	<2.10	<25.0	<5.00	<5.00
Acenaphthene	20	3.00	13.6	<0.100	<4.70	<5.20	**168 [146]**	**22.5**	**22.1**	**33.0**	**29.0**	**24.0**
Acenaphthylene	- -	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	1.50	<25.0	<5.00	<5.00
Anthracene	*50*	<2.10	<2.40	<0.100	<4.70	<5.20	2.90 [2.80]	0.730 J	1.10	<25.0	0.790 J	0.500 J
Benzo(a)anthracene	*0.002*	<2.10	<2.40	<0.0510	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.0520	<25.0	<5.00	<5.00 J
Benzo(a)pyrene	ND	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.100	<25.0	<5.00	<5.00 J
Benzo(b)fluoranthene	*0.002*	<2.10	<2.40	<0.0510 J	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.0520 J	<25.0	<5.00	<5.00 J
Benzo(g,h,i)perylene	- -	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.100	<25.0	<5.00	<5.00 J
Benzo(k)fluoranthene	*0.002*	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.100	<25.0	<5.00	<5.00 J
Chrysene	*0.002*	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.100	<25.0	<5.00	<5.00 J
Dibenzo(a,h)anthracene	- -	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.100	<25.0	<5.00	<5.00 J
Fluoranthene	*50*	<2.10	<2.40	<0.100	<4.70	<5.20	1.50 J [1.50 J]	<2.60	0.520	<25.0	0.630 J	0.610 J
Fluorene	*50*	<2.10	<2.40	<0.100	<4.70	<5.20	39.0 [35.2]	6.70	9.10	8.00 J	9.40	8.80 J
Indeno(1,2,3-cd)pyrene	*0.002*	<2.10	<2.40	<0.100	<4.70	<5.20	<2.20 [<2.20]	<2.60	<0.100	<25.0	<5.00	<5.00 J
Naphthalene	*10*	<2.10 B	<2.40	0.0160 J	<4.70	<5.20	**1,870 D [<1,740 BD]**	0.730 J	0.340 J	8.20 J	<5.00	<5.00
Phenanthrene	*50*	<2.10	<2.40	<0.0510	<4.70	<5.20	33.9 [32.5]	7.40	0.770	2.40 J	<5.00	<5.00 J
Pyrene	*50*	<2.10	<2.40	<0.100	<4.70	<5.20	1.10 J [1.10 J]	<2.60	0.460	<25.0	0.580 J	0.520 J
Cyanide												
Total Cyanide	200	100	130	81.0 J	**880 J**	61	**310 [330]**	30.0	<10.0 J	150 J	30	NA

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Table 2
Groundwater Analytical Results (ppb)

2018 Annual Groundwater Monitoring Report
Cortland-Homer Former MGP Site - Homer, New York

Location ID:	NYSDEC Groundwater Standards/ *Guidance Values*	MW-18					MW-21		MW-25		MW-26	MW-27D	
Screen Interval (ft bgs):		24.6 - 29.6					32 - 37	32 - 37	4 - 14		50 - 60	24 - 34	
Date Collected:		6/25/12	11/5/13	9/14/15	10/18/16	9/13/17	6/27/12	11/6/13	6/27/12	11/6/13	11/6/13	6/26/12	11/5/13
Volatile Organics													
Benzene	1	0.650	<0.500 J	<0.500 J	<1.00	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500 J
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Polycyclic Aromatic Hydrocarbons													
2-Methylnaphthalene	- -	<2.20	<2.40	0.0170 J	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Acenaphthene	20	<2.20	0.580 J	4.10	<5.40	8.40 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Acenaphthylene	- -	<2.20	<2.40	1.20	<5.40	1.60 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Anthracene	*50*	<2.20	<2.40	0.0440 J	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(a)anthracene	*0.002*	<2.20	<2.40	<0.0520	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(a)pyrene	ND	<2.20	<2.40	<0.100	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(b)fluoranthene	*0.002*	<2.20	<2.40	<0.0520 J	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(g,h,i)perylene	- -	<2.20	<2.40	<0.100	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Benzo(k)fluoranthene	*0.002*	<2.20	<2.40	<0.100	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Chrysene	*0.002*	<2.20	<2.40	<0.100	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Dibenzo(a,h)anthracene	- -	<2.20	<2.40	<0.100	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Fluoranthene	*50*	<2.20	<2.40	0.170	<5.40	0.400 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Fluorene	*50*	<2.20	<2.40	0.270	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Indeno(1,2,3-cd)pyrene	*0.002*	<2.20	<2.40	<0.100	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Naphthalene	*10*	<2.20 B	<2.40	0.0320 J	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50 J
Phenanthrene	*50*	<2.20	<2.40	0.0510 J	<5.40	<5.00	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Pyrene	*50*	<2.20	<2.40	0.170	<5.40	0.360 J	<2.20	<2.30	<2.20	<2.60	<2.40	<2.20	<2.50
Cyanide													
Total Cyanide	200	<10.0	<10.0	<10.0 J	<10.0 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

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Table 2
Groundwater Analytical Results (ppb)

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Cortland-Homer Former MGP Site - Homer, New York

Location ID:	NYSDEC Groundwater	MW-27S			MW-28D					MW-28S					
Screen Interval (ft bgs):	Standards/	5 - 15			18 - 28					4 - 14					
Date Collected:	*Guidance Values*	6/26/12	11/5/13	9/16/15	6/25/12	11/5/13	9/15/15	10/18/16	9/13/17	6/25/12	11/5/13	9/15/15	10/18/16	9/13/17	9/5/18
Volatile Organics															
Benzene	1	<0.500	<0.500 J [<0.500 J]	<0.500 J	<0.500	<0.500 J	<0.500 J	<1.00	<1.00	<0.500	<0.500 J	<0.500 J	<1.00	<1.00	NA
Ethylbenzene	5	<1.00	<1.00 [<1.00]	<1.00 J	<1.00	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00 J	<1.00	<1.00	NA
Toluene	5	<1.00	<1.00 [<1.00]	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA
Xylenes (total)	5	<1.00	<1.00 [<1.00]	<1.00 J	<1.00	<1.00	<1.00 J	<2.00	<2.00	<1.00	<1.00	<1.00 J	0.780 J	<2.00	NA
Polycyclic Aromatic Hydrocarbons															
2-Methylnaphthalene	- -	<2.40	<2.50 [<2.40]	<2.30 B	<2.00	<2.20	<2.00 B	<4.80	<5.00	<2.40	<2.50	<2.00 B	<4.70	<5.00	NA
Acenaphthene	20	<2.40	<2.50 J [16.4 J]	<0.110	3.80	<2.20	4.30	4.90	14.0	9.90	4.50	5.10	5.90	9.70	NA
Acenaphthylene	- -	<2.40	<2.50 [0.930 J]	<0.110	0.870 J	<2.20	1.40	1.10 J	3.30 J	3.10	1.00 J	1.50	1.40 J	2.30 J	NA
Anthracene	*50*	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	0.0150 J	<4.70	<5.00	NA
Benzo(a)anthracene	*0.002*	<2.40	<2.50 [<2.40]	<0.0570	<2.00	<2.20	<0.0510	<4.80	<5.00	<2.40	<2.50	<0.0510	<4.70	<5.00	NA
Benzo(a)pyrene	ND	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70 J	<5.00	NA
Benzo(b)fluoranthene	*0.002*	<2.40	<2.50 [<2.40]	<0.0570 J	<2.00	<2.20	<0.0510 J	<4.80	<5.00	<2.40	<2.50	<0.0510 J	<4.70	<5.00	NA
Benzo(g,h,i)perylene	- -	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70 J	<5.00	NA
Benzo(k)fluoranthene	*0.002*	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70	<5.00	NA
Chrysene	*0.002*	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70 J	<5.00	NA
Dibenzo(a,h)anthracene	- -	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70 J	<5.00	NA
Fluoranthene	*50*	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70	<5.00	NA
Fluorene	*50*	<2.40	<2.50 [5.10]	<0.110	<2.00	<2.20	0.150	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70	<5.00	NA
Indeno(1,2,3-cd)pyrene	*0.002*	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70 J	<5.00	NA
Naphthalene	*10*	<5.40 B	<2.50 [<2.40]	<2.30 B	<2.00 B	<2.20	<2.00 B	<4.80	<5.00	<2.40	<2.50	<2.00 B	<4.70	<5.00	NA
Phenanthrene	*50*	<2.40	<2.50 [5.70]	<0.0570	<2.00	<2.20	0.0300 J	<4.80	<5.00	<2.40	<2.50	0.0270 J	<4.70	<5.00	NA
Pyrene	*50*	<2.40	<2.50 [<2.40]	<0.110	<2.00	<2.20	<0.100	<4.80	<5.00	<2.40	<2.50	<0.100	<4.70	<5.00	NA
Cyanide															
Total Cyanide	200	<10.0	<10.0 [<10.0]	<10.0	<10.0	<10.0	2.40 B	<10.0 J	<10.0	**240**	200	**270**	200 J	**260**	**210 [210]**

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Table 2
Groundwater Analytical Results (ppb)

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Location ID:	NYSDEC Groundwater Standards/ *Guidance Values*	MW-29D			MW-29S		MW-30D		MW-30S			
Screen Interval (ft bgs):		35 - 45			5 - 15		24 - 34		5 - 15			
Date Collected:		6/26/12	11/6/13	9/15/15	11/6/13	9/15/15	6/26/12	11/6/13	6/27/12	11/6/13	10/18/16	9/12/17
Volatile Organics												
Benzene	1	<0.500	<0.500	<0.500 J	<0.500	<0.500 J	<0.500	<0.500	<0.500	<0.500	<1.00 [<1.00]	<1.00
Ethylbenzene	5	<1.00	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Toluene	5	<1.00	<1.00	<1.00	<1.00	<1.00	1.20	<1.00	<1.00	<1.00	<1.00 [<1.00]	<1.00
Xylenes (total)	5	<1.00	<1.00	<1.00 J	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00	<2.00 [<2.00]	<2.00
Polycyclic Aromatic Hydrocarbons												
2-Methylnaphthalene	- -	<2.20	<2.40	<2.40 B	<2.40	<2.00 B	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Acenaphthene	20	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Acenaphthylene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Anthracene	*50*	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Benzo(a)anthracene	*0.002*	<2.20	<2.40	<0.0590	<2.40	<0.0500	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Benzo(a)pyrene	ND	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Benzo(b)fluoranthene	*0.002*	<2.20	<2.40	<0.0590 J	<2.40	<0.0500 J	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Benzo(g,h,i)perylene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Benzo(k)fluoranthene	*0.002*	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Chrysene	*0.002*	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Dibenzo(a,h)anthracene	- -	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Fluoranthene	*50*	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Fluorene	*50*	<2.20	<2.40	0.0180 J	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Indeno(1,2,3-cd)pyrene	*0.002*	<2.20	<2.40	<0.120	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Naphthalene	*10*	<2.20	<2.40	<2.40 B	<2.40	<2.00 B	<2.20 B	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Phenanthrene	*50*	<2.20	<2.40	0.0270 J	<2.40	<0.0500	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Pyrene	*50*	<2.20	<2.40	0.0200 J	<2.40	<0.100	<2.20	<2.50	<2.40	<2.50	<110 [<100]	<5.00
Cyanide												
Total Cyanide	200	<10.0	<10.0	<10.0	110	7.60 B	<10.0	<10.0	16.0	14.0	**220 J [<10.0 J]**	9.7 J

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Table 2
Groundwater Analytical Results (ppb)

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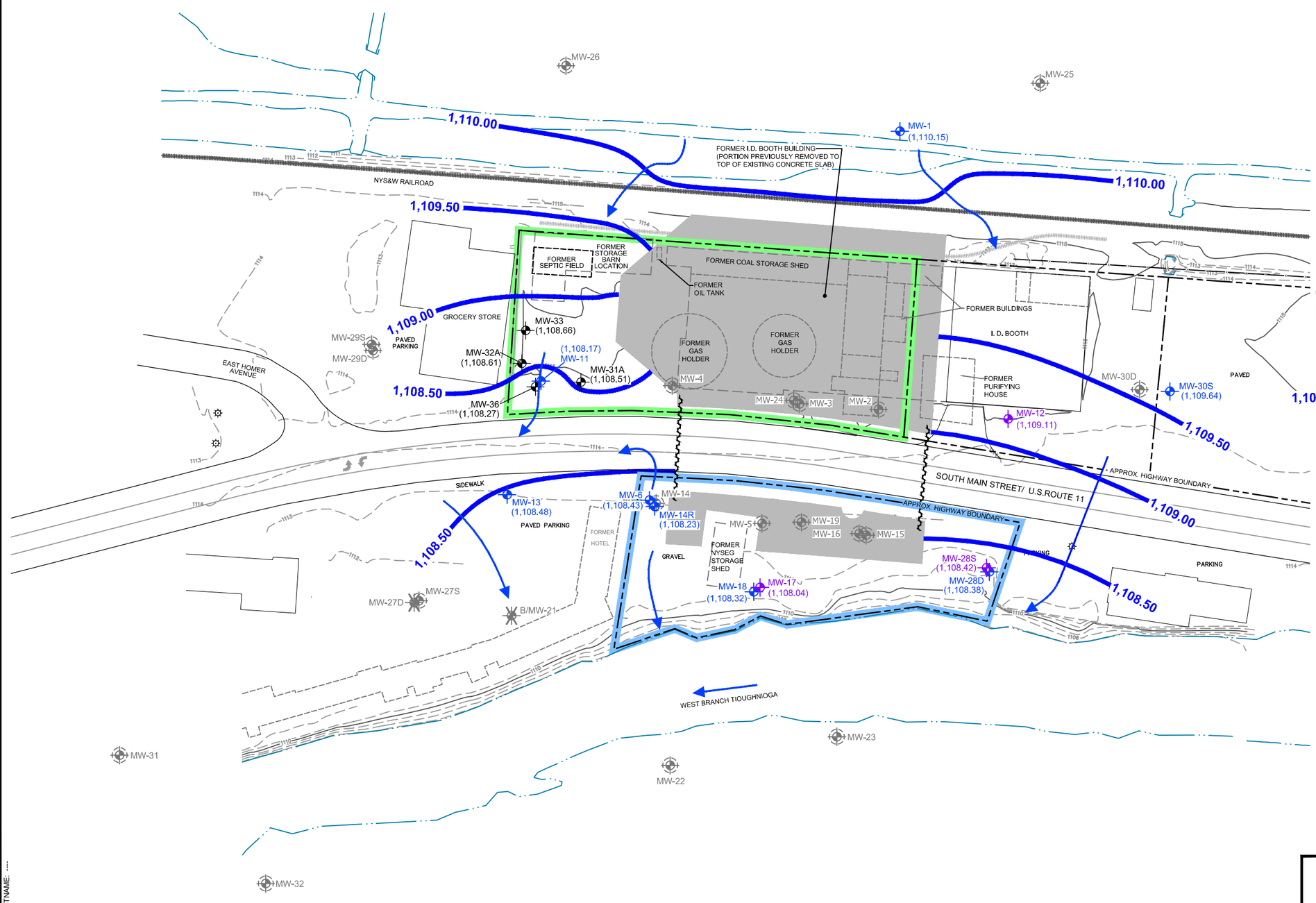
Cortland-Homer Former MGP Site - Homer, New York

Notes:

1. Baseline samples collected by Arcadis of New York, Inc. from June 25-27, 2012, and post-in-situ soil solidification (ISS) samples collected by Arcadis from November 2013 to September 2018.
2. Laboratory analysis was performed by SGS Accutest Laboratories of Marlborough, Massachusetts (before the 2016 monitoring event) or TestAmerica of Amherst, New York for the 2016 to the 2018 monitoring events) for:
   - BTEX (benzene, toluene, ethylbenzene, xylenes) using United States Environmental Protection Agency (USEPA) SW-846 Method 8260B.
   - Polycyclic aromatic hydrocarbons (PAHs) using USEPA SW-846 Method 8270C.
   - Total cyanide using USEPA SW-846 Method 9012.
3. Concentrations reported in micrograms per liter (ug/L), which is equivalent to parts per billion (ppb).
4. Data qualifiers are defined as follows:
   J - Indicates an estimated value.
   < - Indicates that the compound was analyzed for but not detected. The associated value is the compound quantitation limit
   B - Indicates that the analyte was also detected in the associated method blank.
   D - Indicates that the analyte was quantified using a second dilution.
5. NYSDEC groundwater standards/guidance values are from the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGS) document titled "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (TOGS 1.1.1) dated June 1998, revised April 2000 and June 2004.
6. Shading indicates that the result exceeds the water quality standard/guidance value.
7. -- Indicates that no water quality standard or guidance value is available for this compound.
8. [ ] Results shown in brackets represent field duplicates.
9. ND = non-detect.
10. bgs = below ground surface.
11. Results have been validated in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II Standard Operating Procedures, and the NYSDEC Analytical Services Protocol.

FIGURES

CITY:SYRACUSE-NY DIV/GROUP:ENVCAD DB: A. SCHILLING, E. KRAHMER, R. ALLEN PM: J. BRUSSEL TM: J. BRUSSEL TR: C. HEALY LYR:ON=*;OFF=*REF*
C:\Users\EKrahmer\OneDrive - ARCADIS\BIM 360 Docs\NEW YORK STATE ELECTRIC AND GAS\CORTLAND HOMER FORMER MGP SITE\2018\B0013123.1802\01-DWG\2018 GW RPT-Fig 01-WATER TABLE MAP.dwg LAYOUT: 1 SAVED: 10/19/2018 12:16 PM ACADVER: 21.0S (LMS TECH) PAGESETUP:
---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/19/2018 1:45 PM BY: KRAHMER, ERIC
XREFS: IMAGES:
2018 GW RPT-Title Block
Base Map
X-Contours
PROJECTNAME: ----



LEGEND:

- EXISTING MONITORING WELL IN GAUGING AND SAMPLING NETWORK FOR TRIENNIAL MONITORING
- EXISTING MONITORING WELL IN GAUGING AND SAMPLING NETWORK FOR ANNUAL MONITORING
- EXISTING MONITORING WELL IN GAUGING NETWORK
- DECOMMISSIONED MONITORING WELL
- WELLS DESTROYED DURING BUILDING DEMOLITION
- REMOVED/FORMER BUILDINGS
- FORMER MGP STRUCTURE
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE HIGHWAY BOUNDARY
- VERTICAL BARRIER WALL (VBW)
- ISS MONOLITH
- OPERABLE UNIT 1
- OPERABLE UNIT 2
- (1,109.64) GROUNDWATER ELEVATION (FT AMSL)
- 1,108.50 GROUNDWATER ELEVATION CONTOUR (FT AMSL)
- GROUNDWATER FLOW DIRECTION (DASHED WHERE INFERRED)

NOTES:

1. BASEMAP SUPPLIED BY AECOM OF LATHAM, NEW YORK DRAWING NUMBER 3 AT A SCALE OF 1"=60', ENTITLED "NYSEG - REMEDIAL DESIGN FOR FORMER CORTLAND-HOMER MGP SITE" DATED APRIL 16, 2012.
2. BASE MAPPING COMPILED FROM VARIOUS SOURCES INCLUDING NEW YOUR STATE ELECTRIC & GAS (NYSEG) EXISTING PLANIMETRIC AND UTILITY INFORMATION, DIGITIZED INFORMATION FROM NYSDOT RECORD PLANS TITLED RECONSTRUCTION OF ROUTE 11 IN THE TOWN OF CORTLANDVILLE AND VILLAGE OF HOMER - DATED 5-17-02, DIGITIZED AERIAL IMAGERY FROM THE NEW YORK STATE GIS CLEARINGHOUSE, AND A FIELD SURVEY PERFORMED BY AECOM - DATED MAY 13, 2011.
3. FORMER SEPTIC SYSTEM AND OIL TANK TAKEN FROM A PLAN ENTITLED "INVESTIGATION OF FORMER COAL GASIFICATION SITES", DATED 1987 BY E.C. JORDAN CO.
4. THE LOCATION OF MONITORING WELLS MW-6, -11, -14R, -17, -18, -31, -32 AND -33 WERE SURVEYED ON NOVEMBER 21, 2013 BY J. OLMSTEAD & S. HOPE. ALL OTHER MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. ISS = IN-SITU STABILIZATION.
6. VBW = CONSISTS OF STEEL SHEET PILES DRIVEN INTO CONFINING LAYER.
7. MW-32 COULD NOT BE LOCATED FOR DECOMMISSIONING. IT IS ASSUMED THAT MW-32 HAS BEEN DESTROYED BY THE RIVER AND ICE.

0 80' 160'

GRAPHIC SCALE

NYSEG
CORTLAND-HOMER FORMER MGP SITE
HOMER, NEW YORK

2018 ANNUAL GROUNDWATER MONITORING REPORT

WATER-TABLE MAP - SEPTEMBER 5, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY:SYRACUSE,NY DIV/GROUP:ENV/CAD DB: A. SCHILLING, E. KRAHMER R. ALLEN PM: J. BRUSSEL TM: J. BRUSSEL TR: C. HEALY LYR:ON=*;OFF=*REF*
C:\Users\EKrahmer\OneDrive - ARCADIS\BIM 360 Docs\NEW YORK STATE ELECTRIC AND GAS\CORTLAND HOMER FORMER MGP SITE\2018\60013123.1802\01-DWG\2018 GW RPT-Fig 02-GW ANALYTICAL RESULTS.dwg LAYOUT: 2 SAVED: 10/19/2018 12:16 PM ACADVER: 21.0S (LMS TECH)
PAGESETUP:---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/19/2018 1:47 PM BY: KRAHMER, ERIC
XREFS: IMAGES:
2018 GW RPT-Title Block
X-Base Map
X-Contours
PROJECTNAME: ----

MW-26		
Screen Interval	(50 - 60')	
Date	11/6/2013	
No BTEX, PAH, or Cyanide Exceedances		

MW-1			
Screen Interval	(15.5 - 20.5')		
Date	11/6/2013	10/19/2016	9/12/2017
No BTEX, PAH, or Cyanide Exceedances			

MW-25		
Screen Interval	(4 - 14')	
Date	6/27/2012	11/6/2013
No BTEX, PAH, or Cyanide Exceedances		

MW-30S				
Screen Interval	(5 - 15')			
Date	6/27/2012	11/6/2013	10/18/2016	9/12/2017
Cyanide	16.0	14.0	**220 J [<10.0 J]**	9.70 J

MW-12						
Screen Interval	(8 - 13')					
Date	6/27/2012	11/6/2013	9/16/2015	10/19/2016	9/12/2017	9/5/2018
Cyanide	**2,600**	**3,000**	**6,500**	**7,300 J**	**5,800 [6,000]**	**7,500**

MW-29S			
Screen Interval	(5 - 15')		
Date	11/6/2013	9/15/2015	
No BTEX, PAH, or Cyanide Exceedances			

MW-29D			
Screen Interval	(35 - 45')		
Date	6/26/2012	11/6/2013	9/15/2015
No BTEX, PAH, or Cyanide Exceedances			

MW-11			
Screen Interval	(7 - 13')		
Date	9/16/2015	10/19/2016	9/12/2017
Chrysene	**0.0160 J**	NS	NS
Cyanide	**370**	NS	NS

MW-13					
Screen Interval	(35.5 - 40.5')				
Date	6/27/2012	11/6/2013	9/16/2015	10/19/2016	9/13/2017
No BTEX, PAH, or Cyanide Exceedances					

MW-6					
Screen Interval	(26 - 31')				
Date	6/26/2012	11/5/2013	9/14/2015	10/19/2016	9/13/2017
No BTEX, PAH, or Cyanide Exceedances					

MW-27D		
Screen Interval	(24 - 34')	
Date	6/26/2012	11/5/2013
No BTEX, PAH, or Cyanide Exceedances		

MW-27S				
Screen Interval	(5 - 15')			
Date	6/26/2012	11/5/2013	9/16/2015	
No BTEX, PAH, or Cyanide Exceedances				

MW-21		
Screen Interval	(32 - 37')	
Date	6/27/2012	11/6/2013
No BTEX, PAH, or Cyanide Exceedances		

MW-14	
Screen Interval	(6.5 - 11.5')
Date	6/26/2012
Benzene	**14.5**

MW-14R				
Screen Interval	(2.8 - 12.8')			
Date	11/5/2013	9/14/2015	10/19/2016	9/13/2017
Benzene	**17.0 J**	<0.500 J	<1.00	<1.00
Cyanide	130	81.0 J	**880 J**	61.0

MW-18					
Screen Interval	(24.6 - 29.6')				
Date	6/25/2012	11/5/2013	9/14/2015	10/18/2016	9/13/2017
No BTEX, PAH, or Cyanide Exceedances					

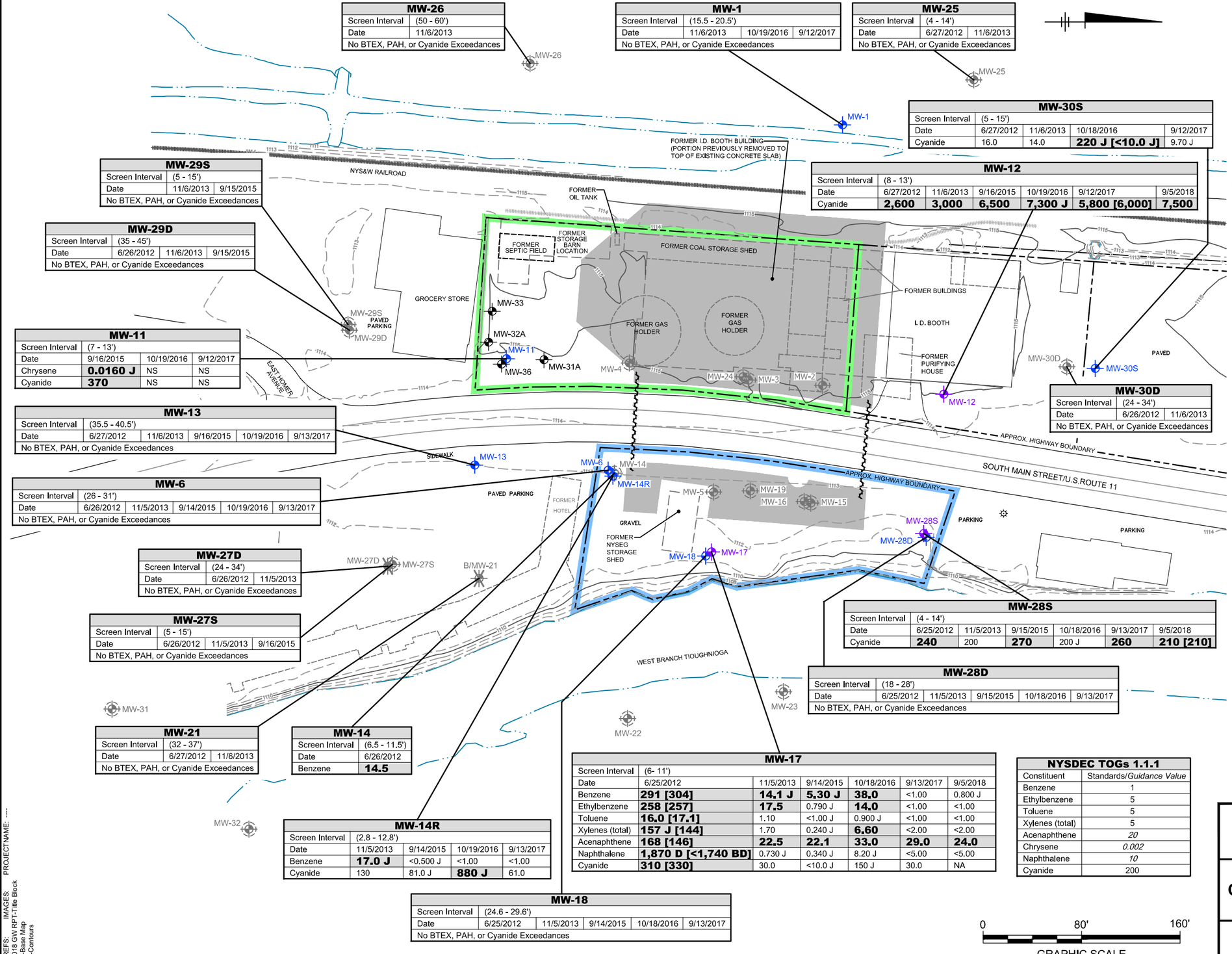
MW-17						
Screen Interval	(6- 11')					
Date	6/25/2012	11/5/2013	9/14/2015	10/18/2016	9/13/2017	9/5/2018
Benzene	**291 [304]**	**14.1 J**	**5.30 J**	**38.0**	<1.00	0.800 J
Ethylbenzene	**258 [257]**	**17.5**	0.790 J	**14.0**	<1.00	<1.00
Toluene	**16.0 [17.1]**	1.10	<1.00 J	0.900 J	<1.00	<1.00
Xylenes (total)	**157 J [144]**	1.70	0.240 J	**6.60**	<2.00	<2.00
Acenaphthene	**168 [146]**	**22.5**	**22.1**	**33.0**	**29.0**	**24.0**
Naphthalene	**1,870 D [<1,740 BD]**	0.730 J	0.340 J	8.20 J	<5.00	<5.00
Cyanide	**310 [330]**	30.0	<10.0 J	150 J	30.0	NA

MW-28S						
Screen Interval	(4 - 14')					
Date	6/25/2012	11/5/2013	9/15/2015	10/18/2016	9/13/2017	9/5/2018
Cyanide	**240**	200	**270**	200 J	**260**	**210 [210]**

MW-28D					
Screen Interval	(18 - 28')				
Date	6/25/2012	11/5/2013	9/15/2015	10/18/2016	9/13/2017
No BTEX, PAH, or Cyanide Exceedances					

MW-30D		
Screen Interval	(24 - 34')	
Date	6/26/2012	11/6/2013
No BTEX, PAH, or Cyanide Exceedances		

NYSDEC TOGs 1.1.1	
Constituent	Standards/*Guidance Value*
Benzene	1
Ethylbenzene	5
Toluene	5
Xylenes (total)	5
Acenaphthene	*20*
Chrysene	*0.002*
Naphthalene	*10*
Cyanide	200



0 80' 160'

GRAPHIC SCALE

LEGEND:

- EXISTING MONITORING WELL IN GAUGING AND SAMPLING NETWORK FOR TRIENNIAL MONTORING
- EXISTING MONITORING WELL IN GAUGING AND SAMPLING NETWORK FOR ANNUAL MONITORING
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- APPROXIMATE HIGHWAY BOUNDARY
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- ISS MONOLITH
- OPERABLE UNIT 1
- OPERABLE UNIT 2

NOTES:

1. BASEMAP SUPPLIED BY AECOM OF LATHAM, NEW YORK DRAWING NUMBER 3 AT A SCALE OF 1"=60', ENTITLED "NYSEG - REMEDIAL DESIGN FOR FORMER CORTLAND-HOMER MGP SITE" DATED APRIL 16, 2012.
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4. THE LOCATION OF MONITORING WELLS MW-6, -11, -14R, -17, -18, -31, -32 AND -33 WERE SURVEYED ON NOVEMBER 21, 2013 BY J. OLMSTEAD & S. HOPE. ALL OTHER MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. GROUNDWATER STANDARDS AND GUIDANCE VALUES ARE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DOCUMENT ENTITLED "DIVISION OF WATER, TECHNICAL AND OPERATIONAL GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS" (ISSUED JUNE 1998 AND REVISED IN APRIL 2000 AND JUNE 2004).
6. SCREEN INTERVAL DEPTHS ARE REPORTED IN FEET BELOW GROUND SURFACE.
7. FIGURE ONLY SHOWS RESULTS FOR BTEX, PAHs, AND CYANIDE EXCEEDING THE STANDARDS AND GUIDANCE VALUES PRESENTED IN TOGS 1.1.1.
8. SHADED AND BOLD VALUE INDICATES THAT THE CONSTITUENT CONCENTRATION EXCEEDS TOGs 1.1.1.
9. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L) WHICH IS EQUIVALENT TO PARTS PER BILLION (ppb).
10. ABBREVIATIONS AND SYMBOLS:
    - B - INDICATES THAT THE ANALYTE WAS ALSO DETECTED IN THE ASSOCIATED METHOD BLANK.
    - BTEX - BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES.
    - D - INDICATES THAT THE ANALYTE WAS QUANTIFIED USING A SECOND DILUTION.
    - NS - NOT SAMPLED.
    - PAHs - POLYCYCLIC AROMATIC HYDROCARBONS.
    - ISS - IN-SITU STABILIZATION.
    - J - INDICATES AN ESTIMATED VALUE.
    - VBW - CONSISTS OF SEALED STEEL SHEET PILES DRIVEN INTO CONFINING LAYER.
    - < - CONSTITUENT NOT DETECTED AT A CONCENTRATION ABOVE THE LABORATORY REPORTED DETECTION LIMIT.
    - [ ] - DUPLICATE SAMPLE RESULTS.
11. DATA HAVE BEEN VALIDATED.
12. MW-11 WAS NOT SAMPLED IN 2017 DUE TO THE PRESENCE OF LIGHT NON-AQUEOUS PHASE LIQUID. MW-11 COULD NOT BE ACCESSED IN 2016.
13. MW-32 COULD NOT BE LOCATED FOR DECOMMISSIONING. IT IS ASSUMED THAT MW-32 HAS BEEN DESTROYED BY THE RIVER AND ICE.

NYSEG
CORTLAND-HOMER FORMER MGP SITE
HOMER, NEW YORK
2018 ANNUAL GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE **2**

ATTACHMENT A

Groundwater Sampling Logs

Site | Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: N. Griffith | **Well ID:** MW-12
Client / Job Number: NYSEG Cortland/Homer | **Date:** 9/5/18
Weather: Sunny 75° | **Time In:** 0735 **Time Out:** 0840

Well Information

Depth to Water:	(feet)	6.12	(from MP)
Total Depth:	(feet)	11.60	(from MP)
Length of Water Column:	(feet)		
Volume of Water in Well:	(gal)		
Three Well Volumes:	(gal)	N/A	

Well Type:	(Flushmount)	Stick-Up		
Well Material:	(Stainless Steel)	PVC		
Well Locked:	(Yes)	No		
Measuring Point Marked:	Yes	(No)		
Well Diameter:	(2")	4"	Other:	

Purging Information

Purging Method:	Bailer	(Peristaltic)	Other:	
Tubing/Bailer Material:	Steel	(Polyethylene)	Other:	
Sampling Method:	Bailer	(Peristaltic)	Other:	
Duration of Pumping:	(min)	50		
Average Pumping Rate:	(ml/min)	100	Water-Quality Meter Type:	Horiba
Total Volume Removed:	(gal)	1.0	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO/ turb	Cond	ORP
± 0.1	±10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	
	0740	0745	0750	0755	0800	0805	0810	0815	0820	0825
Volume Purged (gal)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Rate (mL/min)	400	200	200	200	100	100	100	100	100	100
Depth to Water (ft.)	6.88	7.32	7.69	8.15	8.15	8.15	8.15	8.16	8.16	8.17
pH	7.57	7.61	7.67	7.71	7.68	~~7.74~~ 7.64	7.63	7.67	7.69	7.70
Temp. (C)	17.99	17.84	17.82	17.74	17.75	17.74	17.81	17.79	17.81	17.84
Conductivity (mS/cm)	0.881	0.872	0.861	0.877	0.892	0.894	0.892	0.893	0893	0.895
Dissolved Oxygen (mg/L)	1.39	1.10	0.93	0.99	1.03	1.19	1.22	1.27	1.28	1.27
ORP (mV)	239	236	225	223	223	222	221	219	218	213
Turbidity (NTU)	34.2	41.0	31.4	26.3	22.0	10.2	10.3	10.8	10.3	10.0
Notes:	↓ rate			↓ rate						

Sampling Information

Analyses	#	Laboratory
VOC (8260)		
SVOC (8270)		
total cyanide	1	test America

Sample ID:	MW-12		Sample Time:	0830
MS/MSD:	Yes	(No)		
Duplicate:	Yes	(No)		
Duplicate ID	N/A	Dup. Time:	N/A	
Chain of Custody Signed By:	N. Griffith			

Problems / Observations

I: clear, colorless, odorless

F: SAA

Pg 1 of 1

Site | Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: N. Griffith | **Well ID:** MW-17
Client / Job Number: MSEG | **Date:** 9/5/18
Weather: Sunny 80° | **Time In:** 11:15 **Time Out:** 12:20

Well Information

Depth to Water:	(feet)	6.71	(from MP)
Total Depth:	(feet)	10.62	(from MP)
Length of Water Column:	(feet)	3.91	
Volume of Water in Well:	(gal)	.64	
Three Well Volumes:	(gal)	n/a	

Well Type:	Flushmount		(Stick-Up)
Well Material:	Stainless Steel		(PVC)
Well Locked:	(Yes)		No
Measuring Point Marked:	(Yes)		No
Well Diameter:	(2")	4"	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Other:	
Tubing/Bailer Material:	Steel	(Polyethylene)	Other:	
Sampling Method:	Bailer	(Peristaltic)	Other:	
Duration of Pumping:	(min)	45		
Average Pumping Rate:	(ml/min)	300	Water-Quality Meter Type:	Horiba
Total Volume Removed:	(gal)	1.8	Did well go dry: Yes	(No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO/ turb	Cond	ORP
± 0.1	±10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	11:20	11:25	11:30	11:35	11:40	11:45	11:50	11:55	(12:00)
Volume Purged (gal)	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.7	
Rate (mL/min)	300	300	300	300	300	300	300	300	
Depth to Water (ft.)	6.71	6.71	6.71	6.79	6.70	6.70	6.70	6.70	
pH	8.57	8.58	8.56	8.51	8.55	8.60	8.59	8.56	
Temp. (C)	18.31	18.13	18.02	17.98	18.34	18.29	18.30	18.31	
Conductivity (mS/cm)	0.819	0.764	0.750	0.746	0.745	0.740	0.741	0.741	
Dissolved Oxygen (mg/L)	0.59	0.45	0.37	0.34	0.34	0.33	0.33	0.33	
ORP (mV)	-209	-212	-213	-212	-210	-199	-194	-195	
Turbidity (NTU)	7.1	4.2	1.4	0.4	0.4	0.4	0.5	0.4	
Notes:									

Sampling Information

Analyses	#	Laboratory
VOC (8260)		
SVOC (8270)		
BTEX	3 x3	test America
PAHs	2	
Sample ID: MW-17	Sample Time:	(12:00)
MS/MSD: (Yes)	No	
Duplicate: Yes	(No)	
Duplicate ID n/a	Dup. Time: n/a	
Chain of Custody Signed By:	N. Griffith	

Problems / Observations

Site

Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: N. Griffith
Client / Job Number: USEG
Weather: Sunny 80°

Well ID: MW-28S
Date: 9/5/18
Time In: 0850 **Time Out:** 0940

Well Information

Depth to Water:	3.26	(feet)	(from MP)
Total Depth:	13.26	(feet)	(from MP)
Length of Water Column:		(feet)	10.00
Volume of Water in Well:		(gal)	1.63
Three Well Volumes:		(gal)	N/A

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	Yes	(No)
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2") 4"	Other:

Purging Information

Purging Method:	Bailer	(Peristaltic)	Other:
Tubing/Bailer Material:	Steel	(Polyethylene)	Other:
Sampling Method:	Bailer	(Peristaltic)	Other:
Duration of Pumping:	(min)	30	
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba
Total Volume Removed:	(gal)	Did well go dry: Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	(2" ID)	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO/ turb	Cond	ORP
± 0.1	±10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	0855	0900	0905	0910	0915	0920	0925	0930	
Volume Purged (gal)	0.2	0.4	0.6	0.8	1 ~~1.00~~	1.2	1.4		
Rate (mL/min)	250	200	200	200	200	200	200		
Depth to Water (ft.)	3.32	3.29	3.28	3.26	3.26	3.26	3.26		
pH	7.96	7.96	7.96	7.97	8.02	8.01	8.03		
Temp. (C)	18.55	18.61	18.62	18.68	18.69	18.67	18.62		
Conductivity (mS/cm)	4.22	4.22	4.19	4.16	4.14	4.12	4.12		
Dissolved Oxygen (mg/L)	0.58	0.56	0.49	0.50	0.52	0.52	0.52		
ORP (mV)	-193	-194	-197	-197	-191	-195	-190		
Turbidity (NTU)	3.7	3.9	3.9	3.7	3.3	3.3	3.2		
Notes:	Drak								

Sampling Information

Analyses	#	Laboratory
VOC (8260)		
SVOC (8270)		
total cyanide	1	T.A.

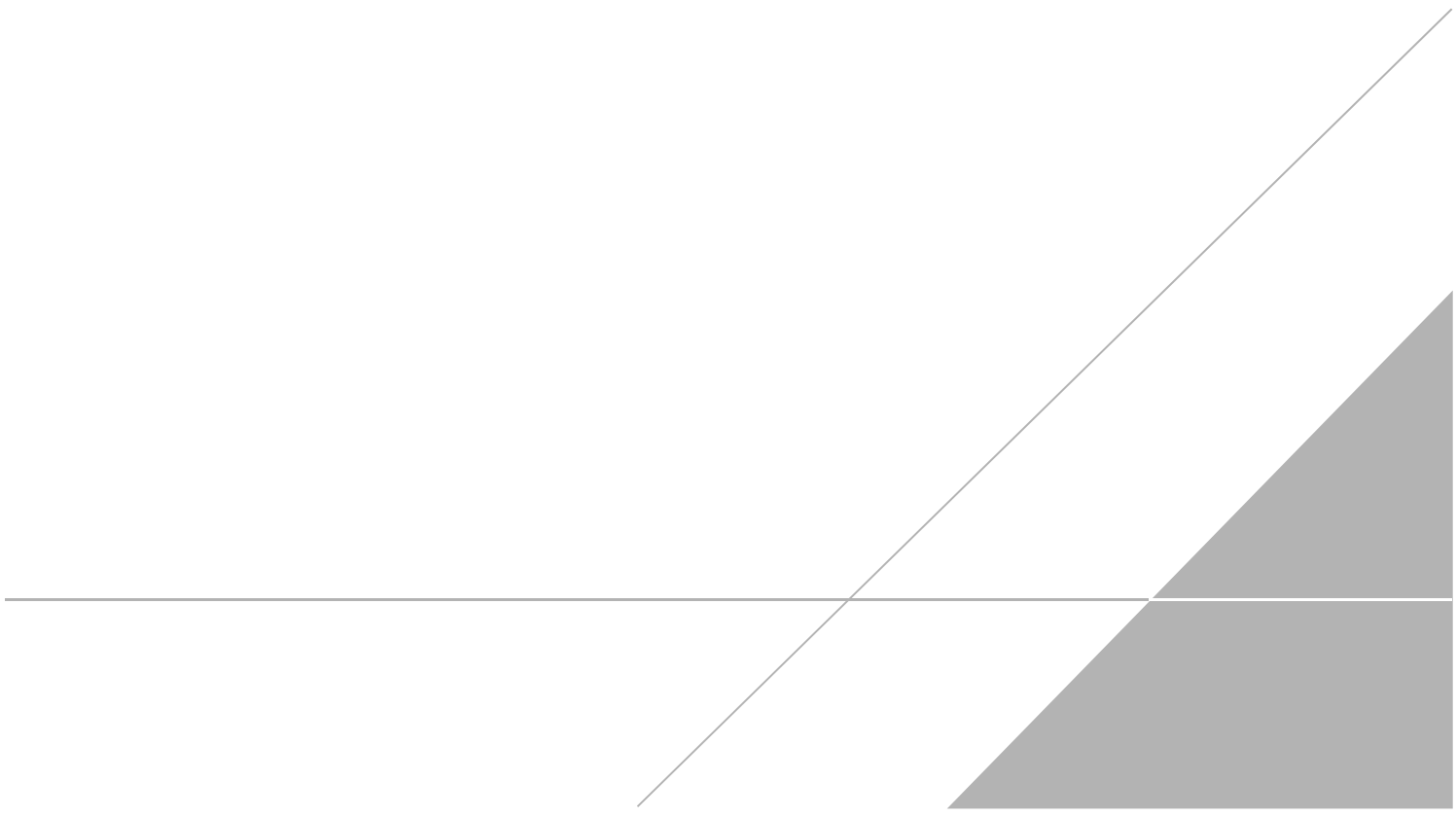
Sample ID:	MW-28S	Sample Time:	0930
MS/MSD:	Yes (No)		
Duplicate:	Yes (No)		
Duplicate ID		Dup. Time:	DUP-090518
Chain of Custody Signed By:	N. Griffith		

Problems / Observations

I: Clear, colorless, odorless

F: SAA

ELECTRONIC ATTACHMENTS



ARCADIS Design & Consultancy for natural and built assets

NYSEG – Cortland-Homer Site

Data Usability Summary Report

Homer, New York

Volatile, Semivolatile, and Cyanide Analysis

SDGs #480-141245-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, New York

Report #30705R
Review Level: Tier III
Project: B0013123.1802.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #480-141245-1 for samples collected in association with the NYSEG Cortland-Homer Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	HERB PEST PCB	MET	MISC
480-141245-1	MW-12	480-141245-1	Water	9/5/2018						X
	DUP-090518	480-141245-2	Water	9/5/2018	MW-28S					X
	MW-28S	480-141245-3	Water	9/5/2018						X
	MW-17	480-141245-4	Water	9/5/2018		X	X			

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:
QA - Quality Assurance

DATA REVIEW REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United Stated Environmental Protection Agency (USEPA) SW-846 Methods 8260C and 8270D. Data were reviewed in accordance with USEPA Region II SOPs and USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA REVIEW REPORT

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

The field duplicate was not performed on a sample within this SDG for this analysis.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)	X				X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
windows					
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270D	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
MW-17	Anthracene
	Benzo[a]anthracene
	Benzo[a]pyrene
	Benzo[b]fluoranthene
	Benzo[g,h,i]perylene
	Benzo[k]fluoranthene
	Chrysene
	Dibenz(a,h)anthracene
	Fluoranthene
	Fluorene

Sample Locations	Compound
	Indeno[1,2,3-cd]pyrene
	Phenanthrene
	Pyrene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

The field duplicate was not performed on a sample within this SDG for this analysis.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)	X				X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	

SVOCs: SW-846 8270	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
I. Quantitation transcriptions/calculations		X		X	
J. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency USEPA Methods, SW846 method 9012B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

  J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).

- Quantitation (Q) Qualifiers

  E The reported value is estimated due to the presence of interference.

  N Spiked sample recovery is not within control limits.

  * Duplicate analysis is not within control limits.

- Validation Qualifiers

  J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

  UB Analyte considered non-detect at the listed value due to associated blank contamination.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Cyanide, Total by SW846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. No other qualification of the sample results was required.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 and all initial calibration verification standard recoveries were within control limits.

All calibration standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS analysis was not performed on a sample within this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices and two times the RL for soil matrices.

The laboratory duplicate was not performed on a sample within this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-28S / DUP-090518	Cyanide	0.21	0.21	0.0%

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: 9012B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate(MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
Initial calibration %RSD or correlation coefficient		X		X	
Continuing calibration %R		X		X	
Raw Data					
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD – relative standard deviation
%R - percent recovery
RPD - relative percent difference,

%D – difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
480-141245-1	9/5/2018	SW846	MW-12	Water	--	--	--	--	yes	
	9/5/2018	SW846	DUP-090518	Water	--	--	--	--	yes	
	9/5/2018	SW846	MW-28S	Water	--	--	--	--	yes	
	9/5/2018	SW846	MW-17	Water	yes	no	--	--	--	SVOC – MS/MSD RPD

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: September 27, 2018

PEER REVIEW: Joseph C. Houser

DATE: September 27, 2018

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

285960

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

480-141245 COC

Client Contact	Project Manager: John Brussel	Site Contact:	Date:	COC No: 1
Company Name: Arcadis	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: One Lincoln Center 110 W. Fayette St	Analysis Turnaround Time			Sampler:
City/State/Zip: Syracuse NY 13202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 315-671-9441	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: NYSEG Cortland/Homer	☐ 1 week			
Site: Homer - Cortland	☐ 2 days			Job / SDG No.:
PO# B0013123.1801.00001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Cyanide	~~Tot~~ BTEX	PAHs	Sample Specific Notes:
MW-12	9/5/18	0830	G	GW	1	N	N	1			
DUP-090518	9/5/18	MA	G	GW	1			1			
MW-28S	9/5/18	0930	G	GW	1			1			
MW-17	9/5/18	1200	G	GW	1		Y		3	6	
								3	2	6	

RE 9-5-18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other none

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

#1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 1.6 Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
N. Griffith	Arcadis	9/5 15:00	RE English	Sya	9-5-18, 15:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
RE English	Sya 9-5-18	19:00		DHS	9-6-18 0100
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

483325 - Syracuse SC

09/20/2018

Client Sample ID: MW-12

Date Collected: 09/05/18 08:30
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	7.5		0.20	0.10	mg/L		09/12/18 09:00	09/12/18 14:44	20

Client Sample ID: DUP-090518

Date Collected: 09/05/18 00:00
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21		0.010	0.0050	mg/L		09/12/18 09:00	09/12/18 14:19	1

Client Sample ID: MW-28S

Date Collected: 09/05/18 09:30
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.21		0.010	0.0050	mg/L		09/12/18 09:00	09/12/18 14:24	1

Client Sample ID: MW-17

Date Collected: 09/05/18 12:00
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.80	J	1.0	0.41	ug/L			09/07/18 01:25	1
Toluene	ND		1.0	0.51	ug/L			09/07/18 01:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/07/18 01:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/07/18 01:25	1
Total BTEX	ND		2.0	1.0	ug/L			09/07/18 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/07/18 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/07/18 01:25*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*09/07/18 01:25*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*09/07/18 01:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	24		5.0	0.41	ug/L		09/06/18 14:08	09/10/18 20:17	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/06/18 14:08	09/10/18 20:17	1
Anthracene	0.50	J ~~F2~~	5.0	0.28	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[a]anthracene	ND	F2	5.0	0.36	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[a]pyrene	ND	F2	5.0	0.47	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[b]fluoranthene	ND	F2	5.0	0.34	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[g,h,i]perylene	ND	F2	5.0	0.35	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[k]fluoranthene	ND	F2	5.0	0.73	ug/L		09/06/18 14:08	09/10/18 20:17	1
Chrysene	ND	F2	5.0	0.33	ug/L		09/06/18 14:08	09/10/18 20:17	1
Dibenz(a,h)anthracene	ND	F2	5.0	0.42	ug/L		09/06/18 14:08	09/10/18 20:17	1
Fluoranthene	0.61	J ~~F2~~	5.0	0.40	ug/L		09/06/18 14:08	09/10/18 20:17	1
Fluorene	8.8	~~F2~~ J	5.0	0.36	ug/L		09/06/18 14:08	09/10/18 20:17	1

UJ

Client Sample ID: MW-17
Date Collected: 09/05/18 12:00
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND	~~F2~~ UJ	5.0	0.47	ug/L		09/06/18 14:08	09/10/18 20:17	1
Naphthalene	ND		5.0	0.76	ug/L		09/06/18 14:08	09/10/18 20:17	1
Phenanthrene	ND	~~F2~~ UJ	5.0	0.44	ug/L		09/06/18 14:08	09/10/18 20:17	1
Pyrene	**0.52**	**J ~~F2~~**	5.0	0.34	ug/L		09/06/18 14:08	09/10/18 20:17	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/06/18 14:08	09/10/18 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*48 - 120*	*09/06/18 14:08*	*09/10/18 20:17*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 120*	*09/06/18 14:08*	*09/10/18 20:17*	*1*
p-Terphenyl-d14 (Surr)	*98*		*59 - 136*	*09/06/18 14:08*	*09/10/18 20:17*	*1*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-141245-1

Job Description: NYSEG Cortland-Homer Groundwater Project

For:
New York State Electric & Gas
PO BOX 5224
Binghamton, NY 13902

Attention: Tracy L. Blazicek

Approved for release.
Rebecca M Jones
Project Management Assistant I
9/20/2018 11:28 AM

Designee for
Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
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09/20/2018

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, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-141245-1

Receipt
The samples were received on 9/6/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

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

GC/MS Semi VOA
Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-433136 and analytical batch 480-433584 was outside control limits. All individual analyte spike recoveries met control criteria. The data has been qualified and reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-17 (480-141245-4[MS]). These results have been reported and qualified.

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

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

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

Sample Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Cortland-Homer Groundwater Project

TestAmerica Job ID: 480-141245-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-141245-1	MW-12	Water	09/05/18 08:30	09/06/18 01:00
480-141245-2	DUP-090518	Water	09/05/18 00:00	09/06/18 01:00
480-141245-3	MW-28S	Water	09/05/18 09:30	09/06/18 01:00
480-141245-4	MW-17	Water	09/05/18 12:00	09/06/18 01:00

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Cortland-Homer Groundwater Project

TestAmerica Job ID: 480-141245-1

Client Sample ID: MW-12 — Lab Sample ID: 480-141245-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	7.5		0.20	0.10	mg/L	20		9012B	Total/NA

Client Sample ID: DUP-090518 — Lab Sample ID: 480-141245-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.21		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-28S — Lab Sample ID: 480-141245-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.21		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 480-141245-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.80	J	1.0	0.41	ug/L	1		8260C	Total/NA
Acenaphthene	24		5.0	0.41	ug/L	1		8270D	Total/NA
Anthracene	0.50	J F2	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	0.61	J F2	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	8.8	F2	5.0	0.36	ug/L	1		8270D	Total/NA
Pyrene	0.52	J F2	5.0	0.34	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Cortland-Homer Groundwater Project

TestAmerica Job ID: 480-141245-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Client Sample ID: MW-12

Lab Sample ID: 480-141245-1

Date Collected: 09/05/18 08:30

Matrix: Water

Date Received: 09/06/18 01:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**7.5**		0.20	0.10	mg/L		09/12/18 09:00	09/12/18 14:44	20

Client Sample ID: DUP-090518

Lab Sample ID: 480-141245-2

Date Collected: 09/05/18 00:00

Matrix: Water

Date Received: 09/06/18 01:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.21**		0.010	0.0050	mg/L		09/12/18 09:00	09/12/18 14:19	1

Client Sample ID: MW-28S

Lab Sample ID: 480-141245-3

Date Collected: 09/05/18 09:30

Matrix: Water

Date Received: 09/06/18 01:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.21**		0.010	0.0050	mg/L		09/12/18 09:00	09/12/18 14:24	1

Client Sample ID: MW-17

Lab Sample ID: 480-141245-4

Date Collected: 09/05/18 12:00

Matrix: Water

Date Received: 09/06/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.80**	**J**	1.0	0.41	ug/L			09/07/18 01:25	1
Toluene	ND		1.0	0.51	ug/L			09/07/18 01:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/07/18 01:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/07/18 01:25	1
Total BTEX	ND		2.0	1.0	ug/L			09/07/18 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/07/18 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/07/18 01:25*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*09/07/18 01:25*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*09/07/18 01:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**24**		5.0	0.41	ug/L		09/06/18 14:08	09/10/18 20:17	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/06/18 14:08	09/10/18 20:17	1
Anthracene	**0.50**	**J F2**	5.0	0.28	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[a]anthracene	ND	F2	5.0	0.36	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[a]pyrene	ND	F2	5.0	0.47	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[b]fluoranthene	ND	F2	5.0	0.34	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[g,h,i]perylene	ND	F2	5.0	0.35	ug/L		09/06/18 14:08	09/10/18 20:17	1
Benzo[k]fluoranthene	ND	F2	5.0	0.73	ug/L		09/06/18 14:08	09/10/18 20:17	1
Chrysene	ND	F2	5.0	0.33	ug/L		09/06/18 14:08	09/10/18 20:17	1
Dibenz(a,h)anthracene	ND	F2	5.0	0.42	ug/L		09/06/18 14:08	09/10/18 20:17	1
Fluoranthene	**0.61**	**J F2**	5.0	0.40	ug/L		09/06/18 14:08	09/10/18 20:17	1
Fluorene	**8.8**	**F2**	5.0	0.36	ug/L		09/06/18 14:08	09/10/18 20:17	1

Client Sample ID: MW-17
Lab Sample ID: 480-141245-4
Date Collected: 09/05/18 12:00
Matrix: Water
Date Received: 09/06/18 01:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND	F2	5.0	0.47	ug/L		09/06/18 14:08	09/10/18 20:17	1
Naphthalene	ND		5.0	0.76	ug/L		09/06/18 14:08	09/10/18 20:17	1
Phenanthrene	ND	F2	5.0	0.44	ug/L		09/06/18 14:08	09/10/18 20:17	1
Pyrene	**0.52**	**J F2**	5.0	0.34	ug/L		09/06/18 14:08	09/10/18 20:17	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/06/18 14:08	09/10/18 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*103*		*48 - 120*	*09/06/18 14:08*	*09/10/18 20:17*	*1*
Nitrobenzene-d5 (Surr)	*87*		*46 - 120*	*09/06/18 14:08*	*09/10/18 20:17*	*1*
p-Terphenyl-d14 (Surr)	*98*		*59 - 136*	*09/06/18 14:08*	*09/10/18 20:17*	*1*

Surrogate Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Cortland-Homer Groundwater Project

TestAmerica Job ID: 480-141245-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-141245-4	MW-17	103	99	110	113
480-141245-4 MS	MW-17	102	100	111	115
480-141245-4 MSD	MW-17	103	98	115	111
LCS 480-433198/6	Lab Control Sample	104	97	110	108
MB 480-433198/8	Method Blank	103	97	107	107

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(59-136)
480-141245-4	MW-17	103	87	98
480-141245-4 MS	MW-17	78	66	37 X
480-141245-4 MSD	MW-17	97	88	93
LCS 480-433136/2-A	Lab Control Sample	99	84	104
MB 480-433136/1-A	Method Blank	102	86	113

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 480-433198/8
Matrix: Water
Analysis Batch: 433198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			09/06/18 23:16	1
Toluene	ND		1.0	0.51	ug/L			09/06/18 23:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/06/18 23:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/06/18 23:16	1
Total BTEX	ND		2.0	1.0	ug/L			09/06/18 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/06/18 23:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*09/06/18 23:16*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*09/06/18 23:16*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*09/06/18 23:16*	*1*

Lab Sample ID: LCS 480-433198/6
Matrix: Water
Analysis Batch: 433198

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.6		ug/L		102	71 - 124
Toluene	25.0	25.2		ug/L		101	80 - 122
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: 480-141245-4 MS
Matrix: Water
Analysis Batch: 433198

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.80	J	25.0	29.9		ug/L		116	71 - 124
Toluene	ND		25.0	26.5		ug/L		106	80 - 122
Ethylbenzene	ND		25.0	26.5		ug/L		106	77 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Dibromofluoromethane (Surr)	*115*		*75 - 123*

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

Lab Sample ID: 480-141245-4 MSD
Matrix: Water
Analysis Batch: 433198

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.80	J	25.0	28.3		ug/L		110	71 - 124	6	13
Toluene	ND		25.0	25.5		ug/L		102	80 - 122	4	15
Ethylbenzene	ND		25.0	24.6		ug/L		98	77 - 123	7	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*115*		*73 - 120*
Dibromofluoromethane (Surr)	*111*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-433136/1-A
Matrix: Water
Analysis Batch: 433584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		09/06/18 14:08	09/10/18 18:22	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/06/18 14:08	09/10/18 18:22	1
Anthracene	ND		5.0	0.28	ug/L		09/06/18 14:08	09/10/18 18:22	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/06/18 14:08	09/10/18 18:22	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/06/18 14:08	09/10/18 18:22	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/06/18 14:08	09/10/18 18:22	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/06/18 14:08	09/10/18 18:22	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/06/18 14:08	09/10/18 18:22	1
Chrysene	ND		5.0	0.33	ug/L		09/06/18 14:08	09/10/18 18:22	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/06/18 14:08	09/10/18 18:22	1
Fluoranthene	ND		5.0	0.40	ug/L		09/06/18 14:08	09/10/18 18:22	1
Fluorene	ND		5.0	0.36	ug/L		09/06/18 14:08	09/10/18 18:22	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/06/18 14:08	09/10/18 18:22	1
Naphthalene	ND		5.0	0.76	ug/L		09/06/18 14:08	09/10/18 18:22	1
Phenanthrene	ND		5.0	0.44	ug/L		09/06/18 14:08	09/10/18 18:22	1
Pyrene	ND		5.0	0.34	ug/L		09/06/18 14:08	09/10/18 18:22	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		09/06/18 14:08	09/10/18 18:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*48 - 120*	*09/06/18 14:08*	*09/10/18 18:22*	*1*
Nitrobenzene-d5 (Surr)	*86*		*46 - 120*	*09/06/18 14:08*	*09/10/18 18:22*	*1*
p-Terphenyl-d14 (Surr)	*113*		*59 - 136*	*09/06/18 14:08*	*09/10/18 18:22*	*1*

Lab Sample ID: LCS 480-433136/2-A
Matrix: Water
Analysis Batch: 433584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	32.9		ug/L		103	60 - 120
Acenaphthylene	32.0	33.0		ug/L		103	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-433136/2-A
Matrix: Water
Analysis Batch: 433584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	32.0	35.3		ug/L		110	67 - 120
Benzo[a]anthracene	32.0	35.3		ug/L		110	70 - 121
Benzo[a]pyrene	32.0	35.1		ug/L		110	60 - 123
Benzo[b]fluoranthene	32.0	36.2		ug/L		113	66 - 126
Benzo[g,h,i]perylene	32.0	37.6		ug/L		117	66 - 150
Benzo[k]fluoranthene	32.0	35.2		ug/L		110	65 - 124
Chrysene	32.0	35.6		ug/L		111	69 - 120
Dibenz(a,h)anthracene	32.0	37.7		ug/L		118	65 - 135
Fluoranthene	32.0	38.0		ug/L		119	69 - 126
Fluorene	32.0	34.7		ug/L		109	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	36.8		ug/L		115	69 - 146
Naphthalene	32.0	30.7		ug/L		96	57 - 120
Phenanthrene	32.0	34.3		ug/L		107	68 - 120
Pyrene	32.0	34.7		ug/L		108	70 - 125
2-Methylnaphthalene	32.0	32.3		ug/L		101	59 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*99*		*48 - 120*
Nitrobenzene-d5 (Surr)	*84*		*46 - 120*
p-Terphenyl-d14 (Surr)	*104*		*59 - 136*

Lab Sample ID: 480-141245-4 MS
Matrix: Water
Analysis Batch: 433584

Client Sample ID: MW-17
Prep Type: Total/NA
Prep Batch: 433136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	24		32.0	44.1		ug/L		62	48 - 120
Acenaphthylene	ND		32.0	27.6		ug/L		86	63 - 120
Anthracene	0.50	J F2	32.0	26.8		ug/L		82	65 - 122
Benzo[a]anthracene	ND	F2	32.0	18.1		ug/L		56	43 - 124
Benzo[a]pyrene	ND	F2	32.0	16.7		ug/L		52	23 - 125
Benzo[b]fluoranthene	ND	F2	32.0	16.9		ug/L		53	27 - 127
Benzo[g,h,i]perylene	ND	F2	32.0	16.5		ug/L		51	16 - 147
Benzo[k]fluoranthene	ND	F2	32.0	17.0		ug/L		53	20 - 124
Chrysene	ND	F2	32.0	17.6		ug/L		55	44 - 122
Dibenz(a,h)anthracene	ND	F2	32.0	16.3		ug/L		51	16 - 139
Fluoranthene	0.61	J F2	32.0	25.7		ug/L		78	63 - 129
Fluorene	8.8	F2	32.0	34.3		ug/L		80	62 - 120
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	16.2		ug/L		51	16 - 140
Naphthalene	ND		32.0	27.1		ug/L		85	45 - 120
Phenanthrene	ND	F2	32.0	26.7		ug/L		83	65 - 122
Pyrene	0.52	J F2	32.0	24.3		ug/L		74	58 - 128
2-Methylnaphthalene	ND		32.0	28.9		ug/L		90	34 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*48 - 120*
Nitrobenzene-d5 (Surr)	*66*		*46 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-141245-4 MS
Matrix: Water
Analysis Batch: 433584

Client Sample ID: MW-17
Prep Type: Total/NA
Prep Batch: 433136

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl-d14 (Surr)	*37*	*X*	*59 - 136*

Lab Sample ID: 480-141245-4 MSD
Matrix: Water
Analysis Batch: 433584

Client Sample ID: MW-17
Prep Type: Total/NA
Prep Batch: 433136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	24		32.0	52.5		ug/L		89	48 - 120	17	24
Acenaphthylene	ND		32.0	32.4		ug/L		101	63 - 120	16	18
Anthracene	0.50	J F2	32.0	34.3	F2	ug/L		106	65 - 122	25	15
Benzo[a]anthracene	ND	F2	32.0	34.2	F2	ug/L		107	43 - 124	62	15
Benzo[a]pyrene	ND	F2	32.0	32.9	F2	ug/L		103	23 - 125	65	15
Benzo[b]fluoranthene	ND	F2	32.0	34.6	F2	ug/L		108	27 - 127	69	15
Benzo[g,h,i]perylene	ND	F2	32.0	33.9	F2	ug/L		106	16 - 147	69	15
Benzo[k]fluoranthene	ND	F2	32.0	32.9	F2	ug/L		103	20 - 124	64	22
Chrysene	ND	F2	32.0	34.4	F2	ug/L		108	44 - 122	64	15
Dibenz(a,h)anthracene	ND	F2	32.0	33.9	F2	ug/L		106	16 - 139	70	15
Fluoranthene	0.61	J F2	32.0	37.3	F2	ug/L		115	63 - 129	37	15
Fluorene	8.8	F2	32.0	42.4	F2	ug/L		105	62 - 120	21	15
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	33.5	F2	ug/L		105	16 - 140	69	15
Naphthalene	ND		32.0	30.4		ug/L		95	45 - 120	12	29
Phenanthrene	ND	F2	32.0	33.0	F2	ug/L		103	65 - 122	21	15
Pyrene	0.52	J F2	32.0	34.5	F2	ug/L		106	58 - 128	35	19
2-Methylnaphthalene	ND		32.0	31.6		ug/L		99	34 - 140	9	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	*97*		*48 - 120*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*
p-Terphenyl-d14 (Surr)	*93*		*59 - 136*

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-433997/1-A
Matrix: Water
Analysis Batch: 434080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		09/12/18 09:00	09/12/18 14:06	1

Lab Sample ID: LCS 480-433997/2-A
Matrix: Water
Analysis Batch: 434080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.406		mg/L		102	90 - 110

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-433997/3-A
Matrix: Water
Analysis Batch: 434080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.242		mg/L		97	90 - 110

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Cortland-Homer Groundwater Project

TestAmerica Job ID: 480-141245-1

GC/MS VOA

Analysis Batch: 433198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-141245-4	MW-17	Total/NA	Water	8260C	
MB 480-433198/8	Method Blank	Total/NA	Water	8260C	
LCS 480-433198/6	Lab Control Sample	Total/NA	Water	8260C	
480-141245-4 MS	MW-17	Total/NA	Water	8260C	
480-141245-4 MSD	MW-17	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 433136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-141245-4	MW-17	Total/NA	Water	3510C	
MB 480-433136/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-433136/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-141245-4 MS	MW-17	Total/NA	Water	3510C	
480-141245-4 MSD	MW-17	Total/NA	Water	3510C	

Analysis Batch: 433584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-141245-4	MW-17	Total/NA	Water	8270D	433136
MB 480-433136/1-A	Method Blank	Total/NA	Water	8270D	433136
LCS 480-433136/2-A	Lab Control Sample	Total/NA	Water	8270D	433136
480-141245-4 MS	MW-17	Total/NA	Water	8270D	433136
480-141245-4 MSD	MW-17	Total/NA	Water	8270D	433136

General Chemistry

Prep Batch: 433997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-141245-1	MW-12	Total/NA	Water	9012B	
480-141245-2	DUP-090518	Total/NA	Water	9012B	
480-141245-3	MW-28S	Total/NA	Water	9012B	
MB 480-433997/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-433997/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-433997/3-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 434080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-141245-1	MW-12	Total/NA	Water	9012B	433997
480-141245-2	DUP-090518	Total/NA	Water	9012B	433997
480-141245-3	MW-28S	Total/NA	Water	9012B	433997
MB 480-433997/1-A	Method Blank	Total/NA	Water	9012B	433997
LCS 480-433997/2-A	Lab Control Sample	Total/NA	Water	9012B	433997
LCS 480-433997/3-A	Lab Control Sample	Total/NA	Water	9012B	433997

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG Cortland-Homer Groundwater Project

TestAmerica Job ID: 480-141245-1

Client Sample ID: MW-12
Date Collected: 09/05/18 08:30
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			433997	09/12/18 09:00	AED	TAL BUF
Total/NA	Analysis	9012B		20	434080	09/12/18 14:44	CLT	TAL BUF

Client Sample ID: DUP-090518
Date Collected: 09/05/18 00:00
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			433997	09/12/18 09:00	AED	TAL BUF
Total/NA	Analysis	9012B		1	434080	09/12/18 14:19	CLT	TAL BUF

Client Sample ID: MW-28S
Date Collected: 09/05/18 09:30
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			433997	09/12/18 09:00	AED	TAL BUF
Total/NA	Analysis	9012B		1	434080	09/12/18 14:24	CLT	TAL BUF

Client Sample ID: MW-17
Date Collected: 09/05/18 12:00
Date Received: 09/06/18 01:00

Lab Sample ID: 480-141245-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	433198	09/07/18 01:25	RJF	TAL BUF
Total/NA	Prep	3510C			433136	09/06/18 14:08	ATG	TAL BUF
Total/NA	Analysis	8270D		1	433584	09/10/18 20:17	RJS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State Electric & Gas
TestAmerica Job ID: 480-141245-1
Project/Site: NYSEG Cortland-Homer Groundwater Project

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Total BTEX

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

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 #
MW-17	480-141245-4	113	99	103	110
	MB 480-433198/8	107	97	103	107
	LCS 480-433198/6	108	97	104	110
MW-17 MS	480-141245-4 MS	115	100	102	111
MW-17 MSD	480-141245-4 MSD	111	98	103	115

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P35784.D

Lab ID: LCS 480-433198/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	25.6	102	71-124	
Toluene	25.0	25.2	101	80-122	
Ethylbenzene	25.0	24.7	99	77-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P35801.D

Lab ID: 480-141245-4 MS Client ID: MW-17 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	25.0	0.80 J	29.9	116	71-124	
Toluene	25.0	ND	26.5	106	80-122	
Ethylbenzene	25.0	ND	26.5	106	77-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P35802.D

Lab ID: 480-141245-4 MSD Client ID: MW-17 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	25.0	28.3	110	6	13	71-124	
Toluene	25.0	25.5	102	4	15	80-122	
Ethylbenzene	25.0	24.6	98	7	15	77-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab File ID: P35786.D Lab Sample ID: MB 480-433198/8

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

Instrument ID: HP5973P Date Analyzed: 09/06/2018 23:16

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 480-433198/6	P35784.D	09/06/2018 22:21
MW-17	480-141245-4	P35790.D	09/07/2018 01:25
MW-17 MS	480-141245-4 MS	P35801.D	09/07/2018 06:26
MW-17 MSD	480-141245-4 MSD	P35802.D	09/07/2018 06:53

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab File ID: P35498.D BFB Injection Date: 08/27/2018

Instrument ID: HP5973P BFB Injection Time: 14:53

Analysis Batch No.: 431591

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.7	
75	30.0 - 60.0 % of mass 95	50.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	87.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.3) 1
176	95.0 - 101.0 % of mass 174	85.8	(98.1) 1
177	5.0 - 9.0 % of mass 176	5.3	(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
	IC 480-431591/6	P35500.D	08/27/2018	15:51
	IC 480-431591/7	P35501.D	08/27/2018	16:19
	IC 480-431591/8	P35502.D	08/27/2018	16:46
	IC 480-431591/9	P35503.D	08/27/2018	17:14
	ICIS 480-431591/10	P35504.D	08/27/2018	17:41
	IC 480-431591/11	P35505.D	08/27/2018	18:09
	IC 480-431591/12	P35506.D	08/27/2018	18:37

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab File ID: P35780.D BFB Injection Date: 09/06/2018

Instrument ID: HP5973P BFB Injection Time: 20:07

Analysis Batch No.: 433198

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.7	
75	30.0 - 60.0 % of mass 95	50.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	91.1	
175	5.0 - 9.0 % of mass 174	6.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.1	(95.6) 1
177	5.0 - 9.0 % of mass 176	7.0	(8.0) 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 480-433198/10	P35783.D	09/06/2018	21:32
	LCS 480-433198/6	P35784.D	09/06/2018	22:21
	MB 480-433198/8	P35786.D	09/06/2018	23:16
MW-17	480-141245-4	P35790.D	09/07/2018	01:25
MW-17 MS	480-141245-4 MS	P35801.D	09/07/2018	06:26
MW-17 MSD	480-141245-4 MSD	P35802.D	09/07/2018	06:53

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Sample No.: ICIS 480-431591/10 Date Analyzed: 08/27/2018 17:41

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P35504.D Heated Purge: (Y/N) N

Calibration ID: 34644

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		193581	10.34	400758	14.29	418203	17.25
UPPER LIMIT		387162	10.84	801516	14.79	836406	17.75
LOWER LIMIT		96791	9.84	200379	13.79	209102	16.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-433198/10		169809	10.34	388341	14.29	455432	17.25

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Sample No.: CCVIS 480-433198/10 Date Analyzed: 09/06/2018 21:32

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P35783.D Heated Purge: (Y/N) N

Calibration ID: 34642

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		169809	10.34	388341	14.29	455432	17.25
UPPER LIMIT		339618	10.84	776682	14.79	910864	17.75
LOWER LIMIT		84905	9.84	194171	13.79	227716	16.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-433198/6		183535	10.34	400490	14.29	481230	17.25
MB 480-433198/8		186428	10.34	410475	14.29	461832	17.25
480-141245-4	MW-17	164126	10.34	368697	14.29	419234	17.25
480-141245-4 MS	MW-17 MS	152659	10.34	364262	14.29	436786	17.25
480-141245-4 MSD	MW-17 MSD	163691	10.34	379669	14.29	460340	17.25

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: MW-17 | Lab Sample ID: 480-141245-4

Matrix: Water | Lab File ID: P35790.D

Analysis Method: 8260C | Date Collected: 09/05/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/07/2018 01:25

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.: 433198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.80	J	1.0	0.41
108-88-3	Toluene	ND		1.0	0.51
100-41-4	Ethylbenzene	ND		1.0	0.74
1330-20-7	Xylenes, Total	ND		2.0	0.66
STL00431	Total BTEX	ND		2.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D
Lims ID: 480-141245-C-4
Client ID: MW-17
Sample Type: Client
Inject. Date: 07-Sep-2018 01:25:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-141245-C-4
Misc. Info.: 480-0074461-016
Operator ID: RB Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Sep-2018 13:21:33 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: farrellr Date: 07-Sep-2018 13:21:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.342	-0.006	98	164126	25.0	
* 2 Chlorobenzene-d5	82	14.290	14.291	-0.001	86	368697	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.253	-0.006	96	419234	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	93	245560	28.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.995	9.990	0.005	0	143931	24.8	
$ 5 Toluene-d8 (Surr)	98	12.325	12.326	-0.001	93	860325	25.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.787	0.000	93	306532	27.4	
57 Benzene	78	10.038	10.038	0.000	94	30714	0.8025	
76 Toluene	92		12.417				ND	Ua
89 Ethylbenzene	91		14.376				ND	Ua
90 m-Xylene & p-Xylene	106	14.522	14.516	0.012	0	5301	0.2775	a
93 o-Xylene	106		15.063				ND	Ua
S 125 Total BTEX	1				0		1.08	
S 126 Xylenes, Total	1				0		0.2775	

QC Flag Legend

Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

P 8260 IS_00328 Amount Added: 1.25 Units: uL Run Reagent
P 8260 Surr._00301 Amount Added: 1.25 Units: uL Run Reagent

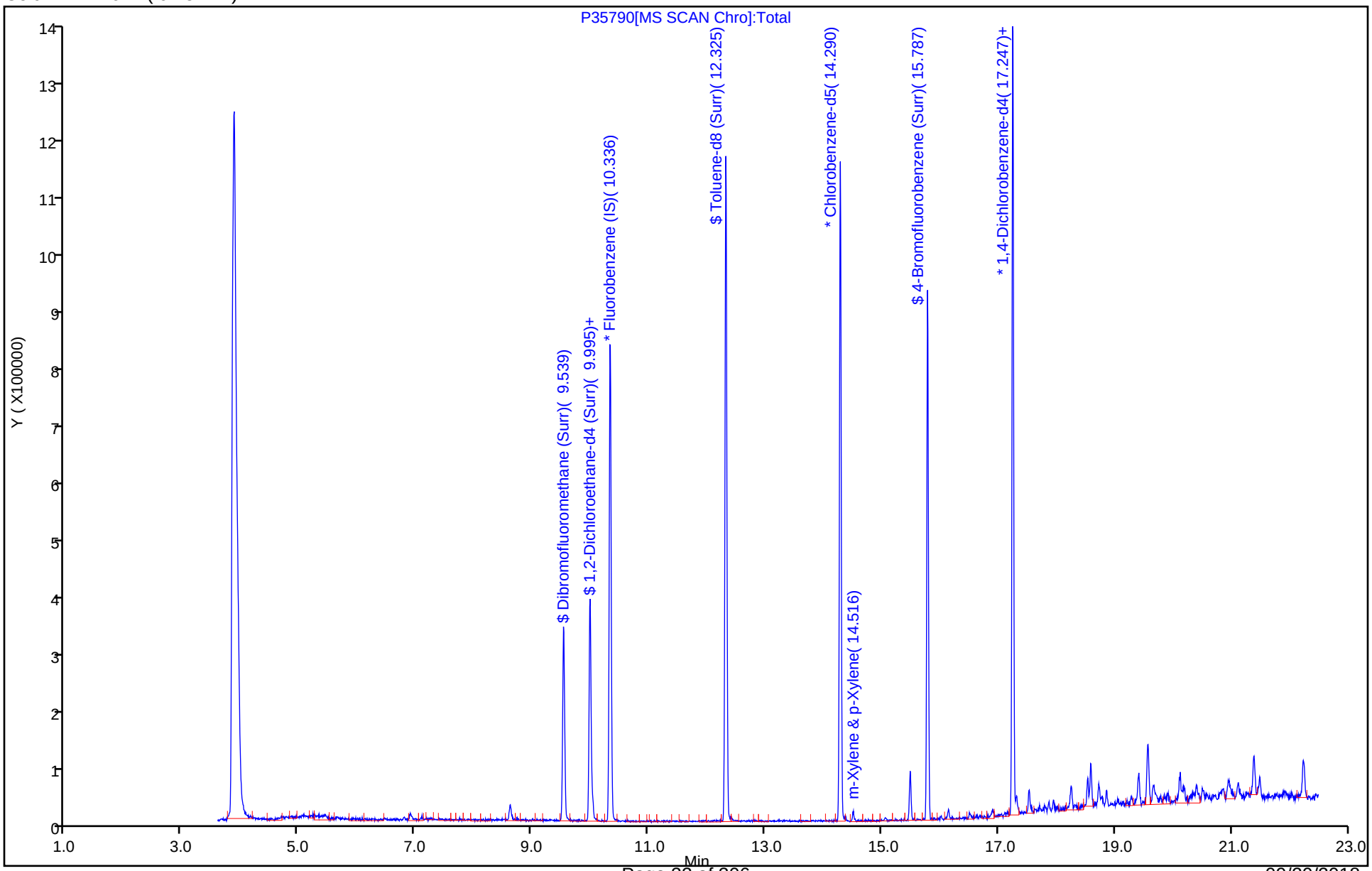
Report Date: 07-Sep-2018 13:21:33 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D

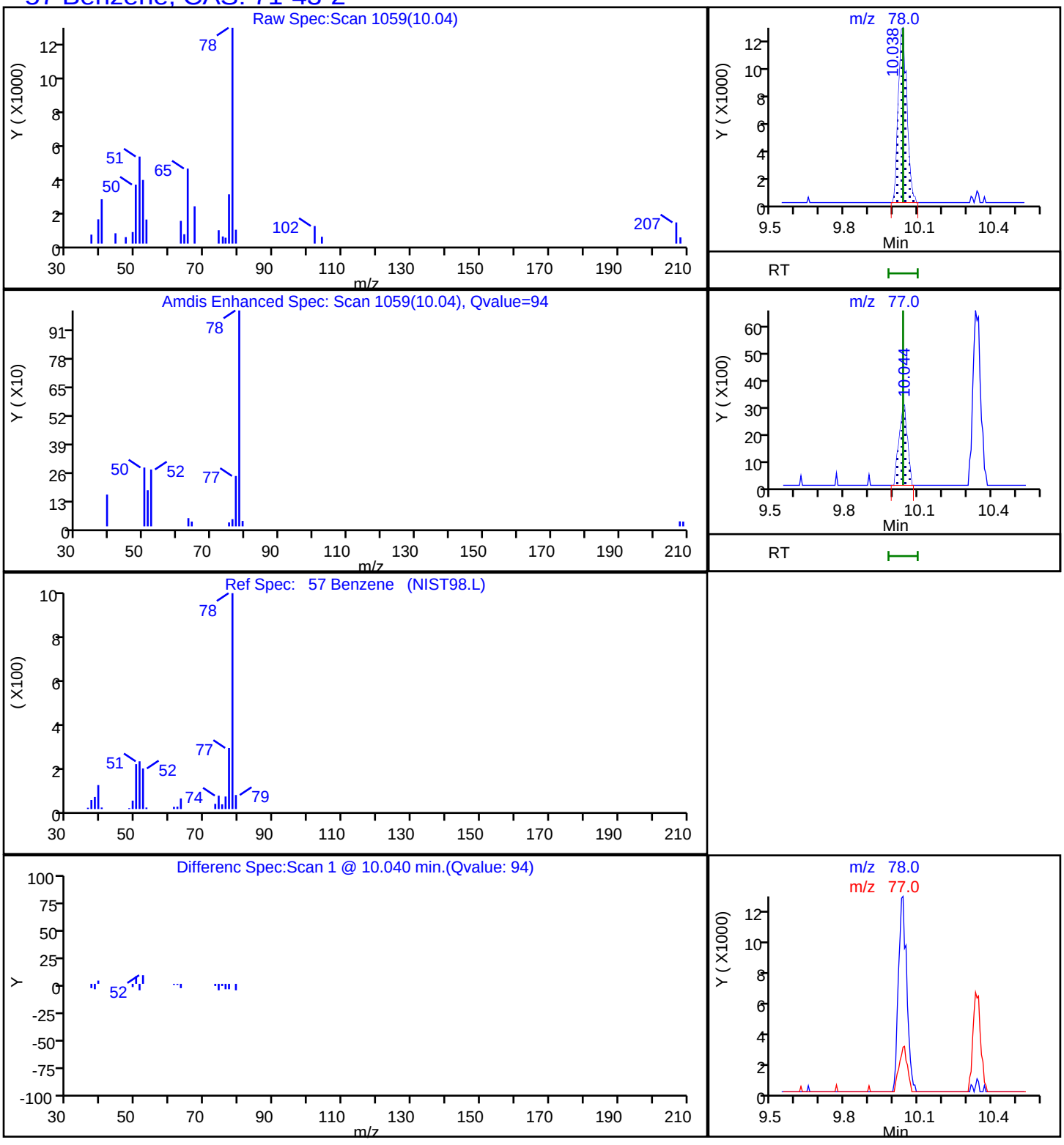
Injection Date:	07-Sep-2018 01:25:30	Instrument ID:	HP5973P	Operator ID:	RB
Lims ID:	480-141245-C-4	Lab Sample ID:	480-141245-4	Worklist Smp#:	16
Client ID:	MW-17				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D
Injection Date: 07-Sep-2018 01:25:30 Instrument ID: HP5973P
Lims ID: 480-141245-C-4 Lab Sample ID: 480-141245-4
Client ID: MW-17
Operator ID: RB ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

57 Benzene, CAS: 71-43-2



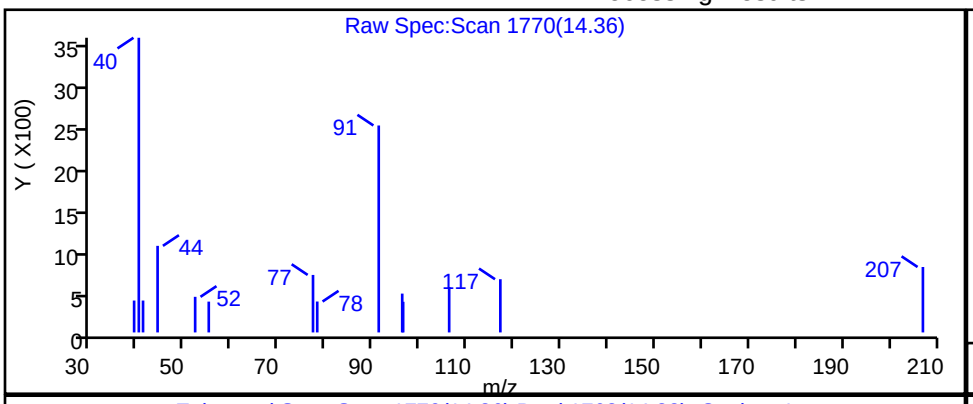
User Disabled Compound Report

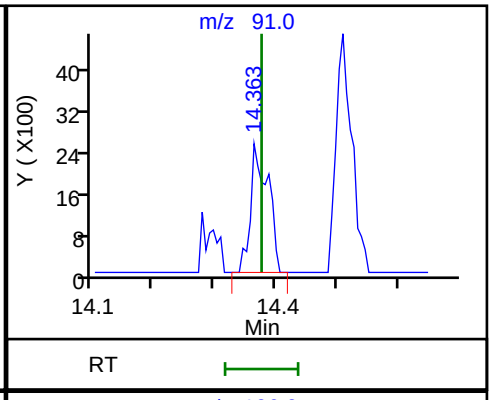
TestAmerica Buffalo

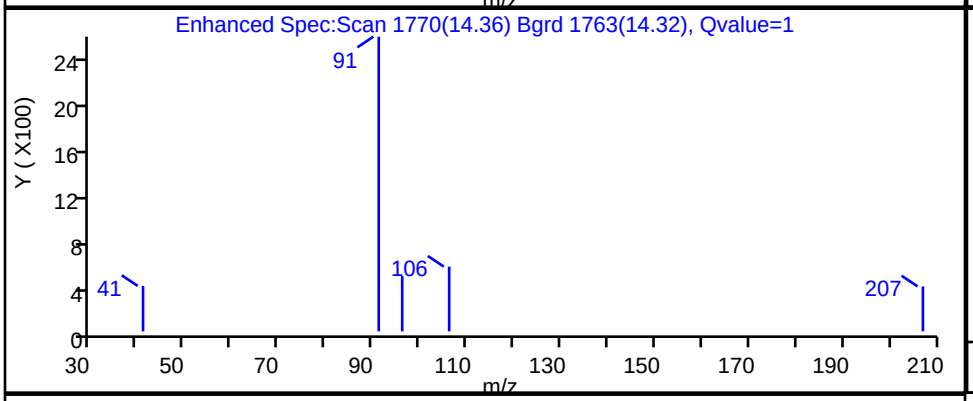
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D				
Injection Date:	07-Sep-2018 01:25:30	Instrument ID:	HP5973P		
Lims ID:	480-141245-C-4	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	RB	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

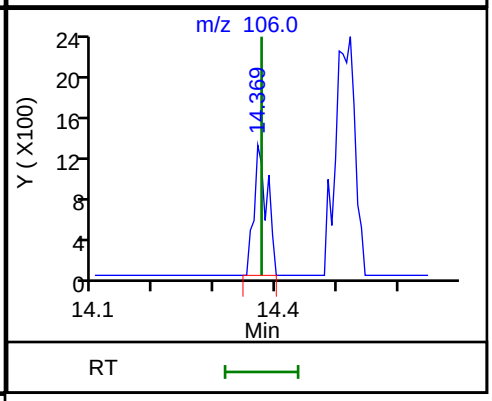
89 Ethylbenzene, CAS: 100-41-4

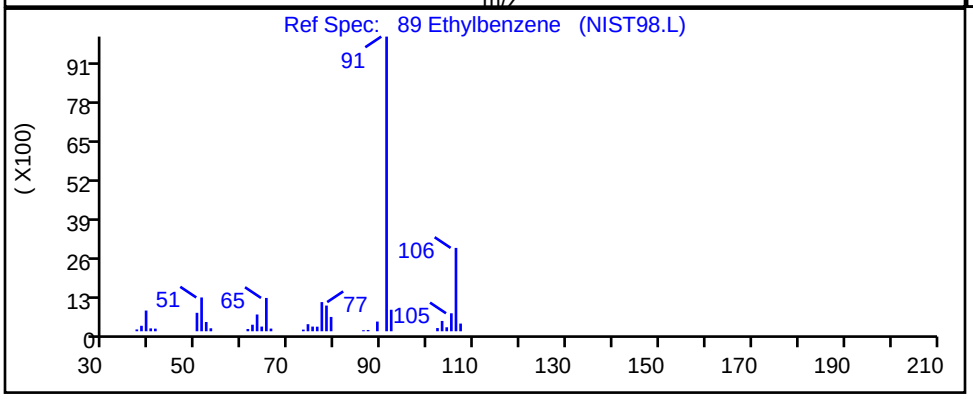
Processing Results











RT	Mass	Response	Amount
14.36	91.00	4988	0.099741
14.37	106.00	1970	

Reviewer: farrellr, 07-Sep-2018 13:21:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

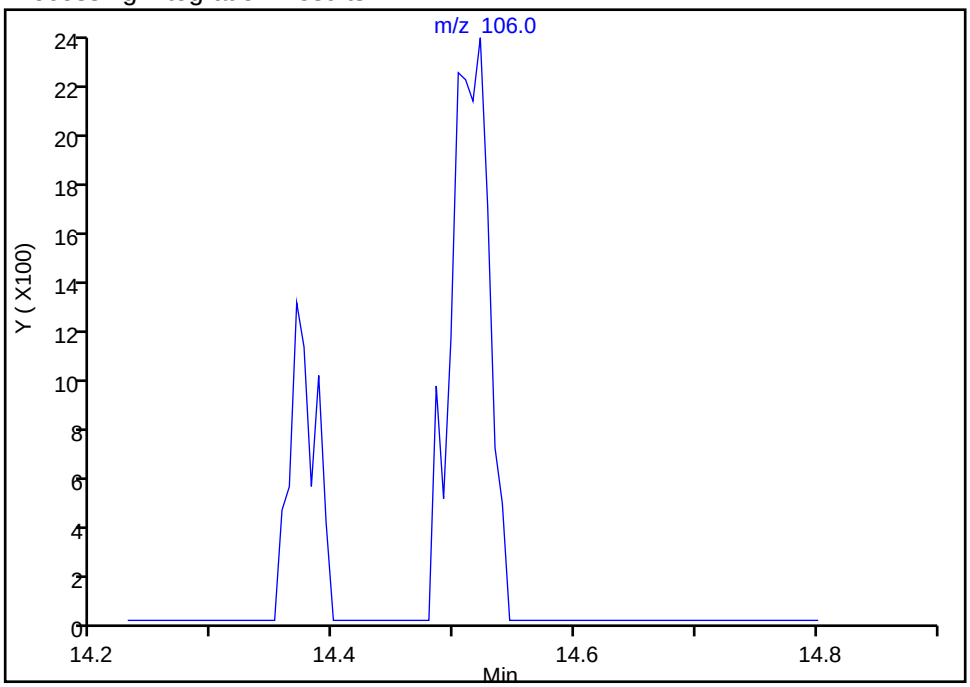
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D				
Injection Date:	07-Sep-2018 01:25:30	Instrument ID:	HP5973P		
Lims ID:	480-141245-C-4	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	RB	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

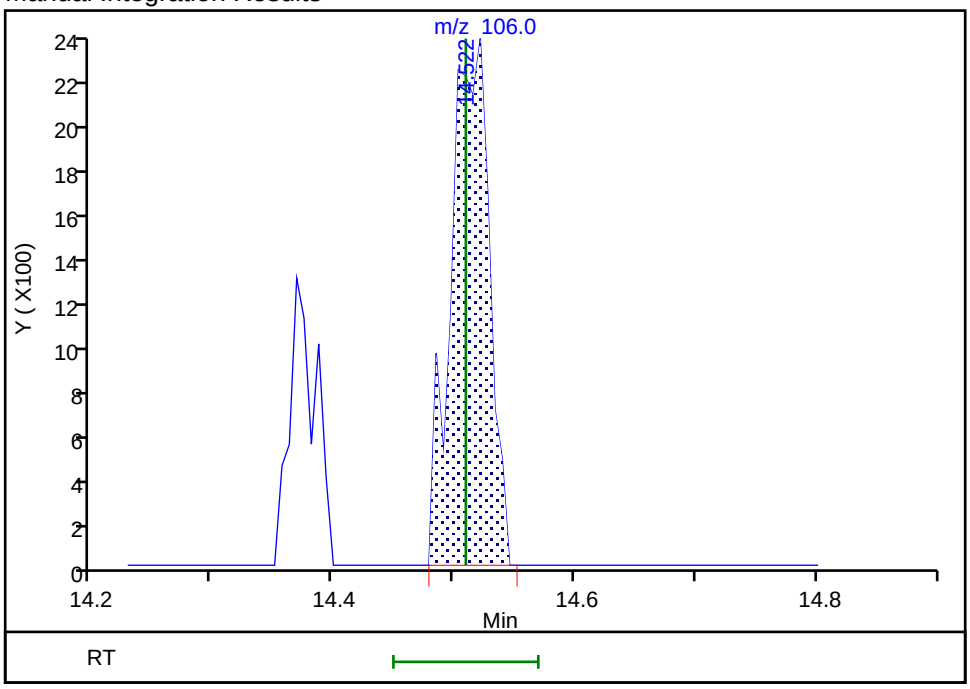
Not Detected
Expected RT: 14.51

Processing Integration Results



Manual Integration Results

RT: 14.52
Area: 5301
Amount: 0.277545
Amount Units: ug/L



Reviewer: izquierdoo, 07-Sep-2018 09:25:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

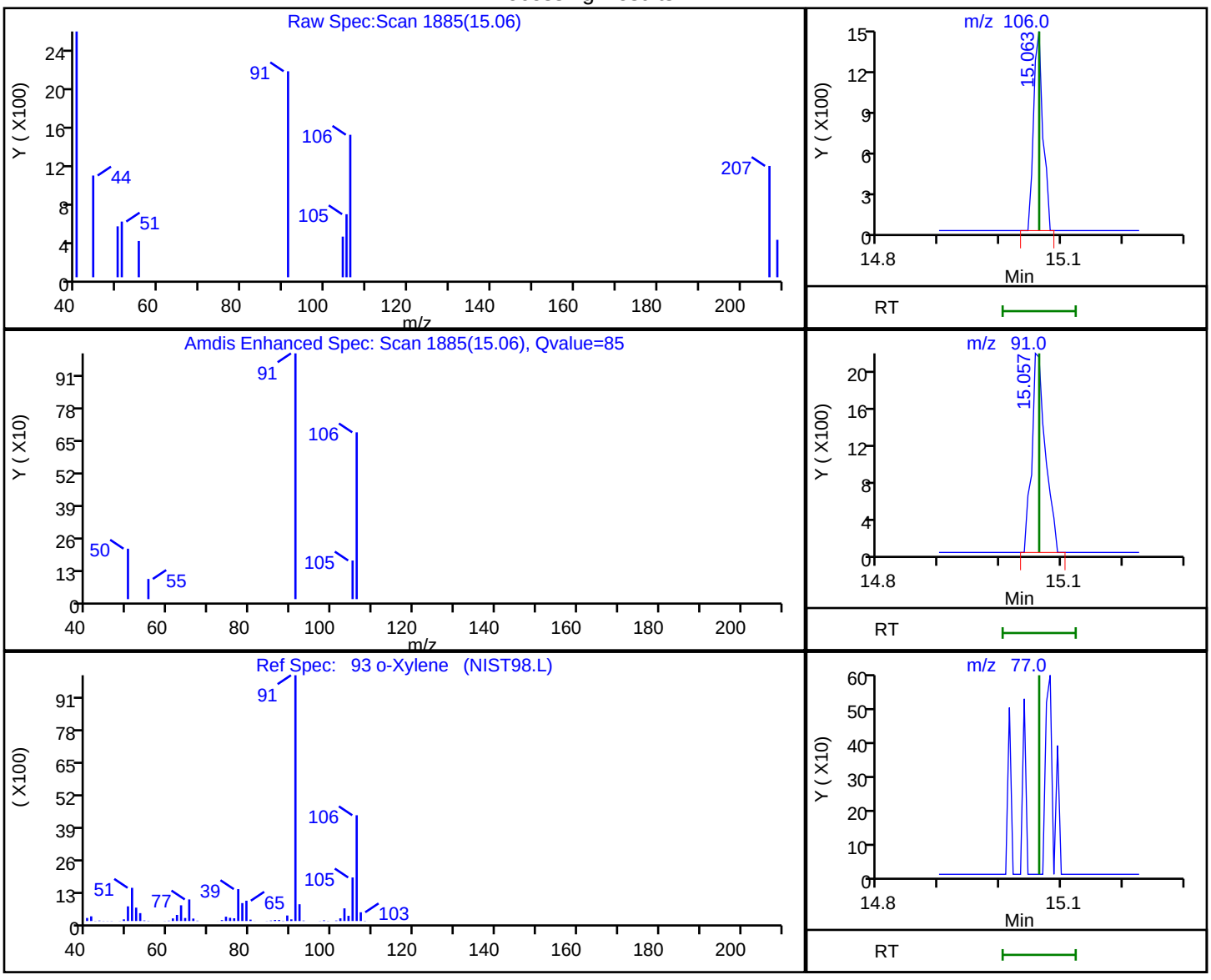
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D				
Injection Date:	07-Sep-2018 01:25:30	Instrument ID:	HP5973P		
Lims ID:	480-141245-C-4	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	RB	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

93 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
15.06	106.00	1549	0.081595
15.06	91.00	3310	
15.06	77.00	0	
15.06	105.00	0	

Reviewer: farrellr, 07-Sep-2018 13:21:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

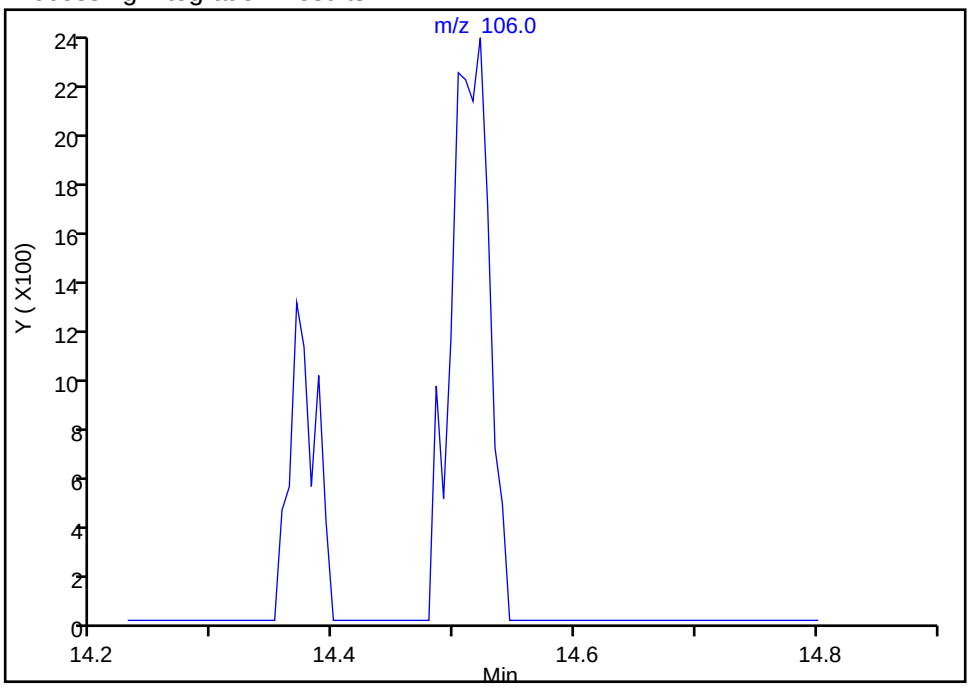
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D				
Injection Date:	07-Sep-2018 01:25:30	Instrument ID:	HP5973P		
Lims ID:	480-141245-C-4	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	RB	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

90 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

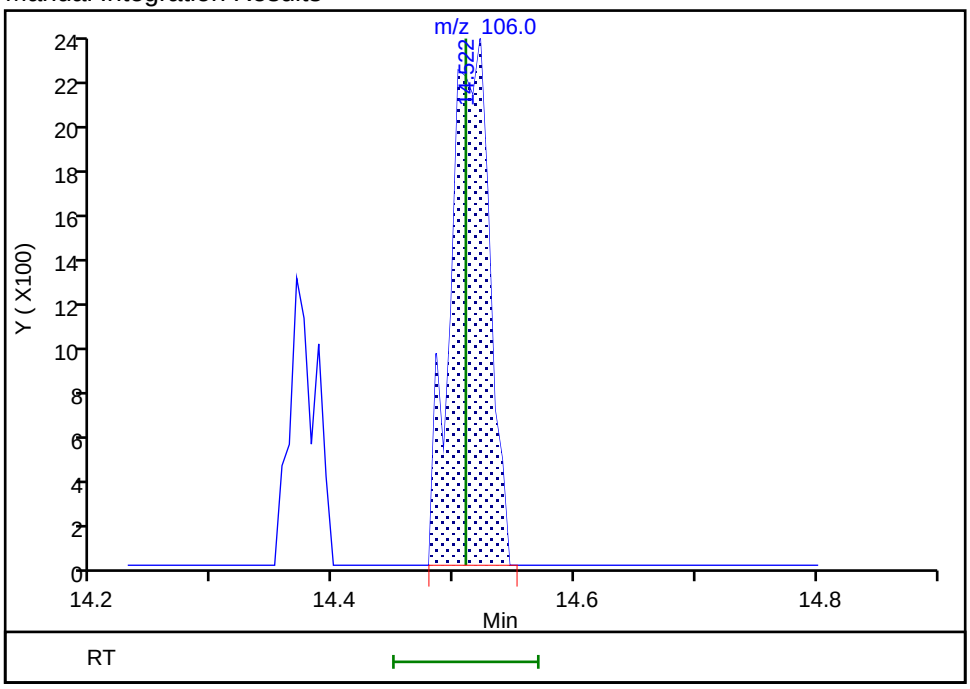
Not Detected
Expected RT: 14.51

Processing Integration Results



Manual Integration Results

RT: 14.52
Area: 5301
Amount: 0.277545
Amount Units: ug/L



Reviewer: izquierdoo, 07-Sep-2018 09:25:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

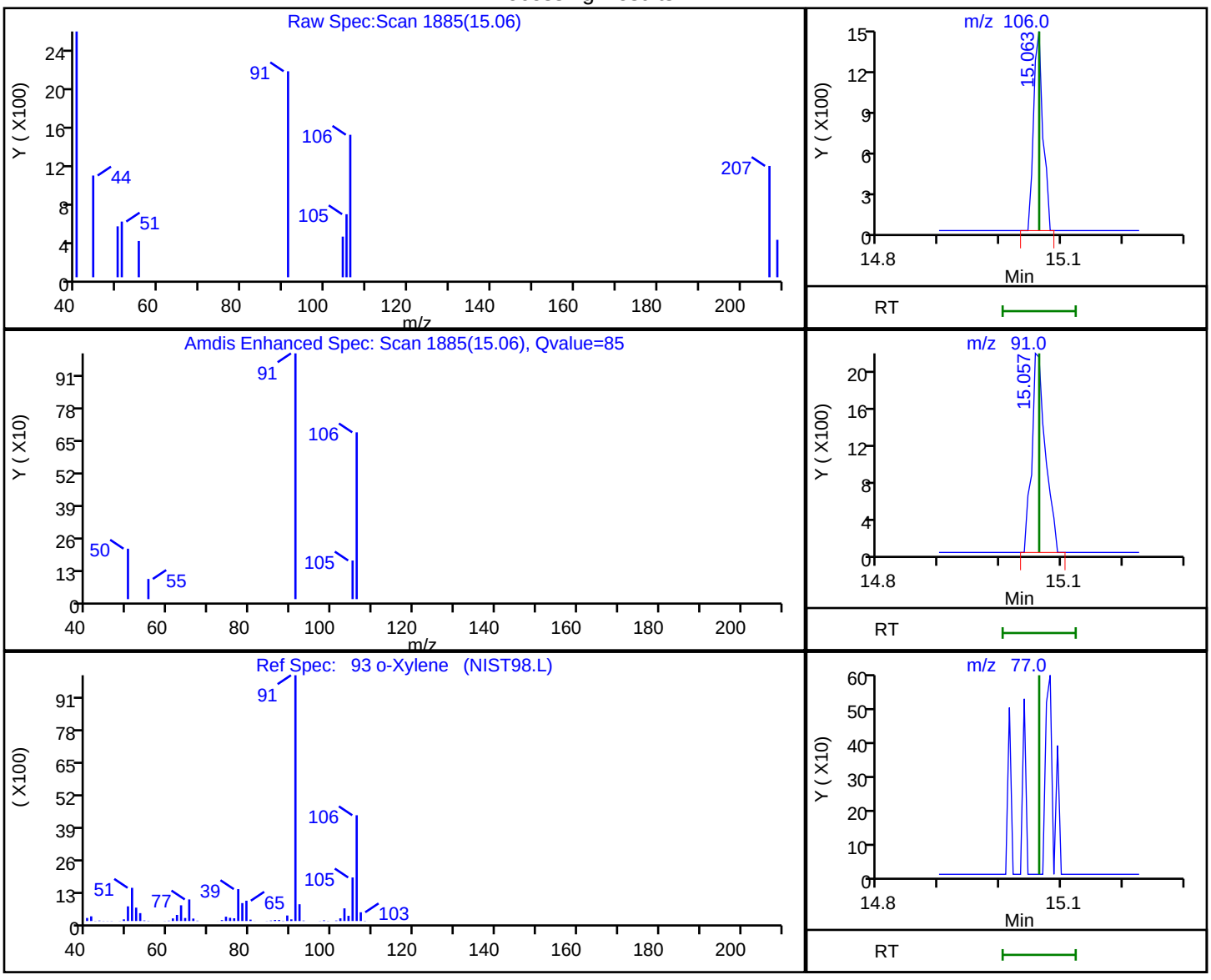
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35790.D				
Injection Date:	07-Sep-2018 01:25:30	Instrument ID:	HP5973P		
Lims ID:	480-141245-C-4	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	RB	ALS Bottle#:	11	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

93 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
15.06	106.00	1549	0.081595
15.06	91.00	3310	
15.06	77.00	0	
15.06	105.00	0	

Reviewer: farrellr, 07-Sep-2018 13:21:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-431591/6	P35500.D
Level 2	IC 480-431591/7	P35501.D
Level 3	IC 480-431591/8	P35502.D
Level 4	IC 480-431591/9	P35503.D
Level 5	ICIS 480-431591/10	P35504.D
Level 6	IC 480-431591/11	P35505.D
Level 7	IC 480-431591/12	P35506.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	+++++ 1.9594	1.7870 1.9458	2.1135	2.0630	2.1325	Ave		2.0002			0.1000	6.5		20.0			
Chloromethane	4.6061 3.5329	4.2996 3.4699	4.0858	3.8355	3.8380	Ave		3.9526			0.1000	10.3		20.0			
Vinyl chloride	2.4186 2.4880	2.7561 2.4985	2.7896	2.6397	2.7381	Ave		2.6184			0.1000	5.7		20.0			
Butadiene	2.5003 2.5083	2.8189 2.4966	2.8712	2.7960	2.8021	Ave		2.6848				6.4		20.0			
Bromomethane	1.3699 1.4142	1.6438 1.3758	1.5237	1.4781	1.5109	Ave		1.4738			0.1000	6.6		20.0			
Chloroethane	0.9722 1.4268	1.3920 1.4048	1.5123	1.4358	1.5262	Ave		1.3814			0.1000	13.6		20.0			
Dichlorofluoromethane	3.1425 3.3151	3.2601 3.2864	3.6352	3.5778	3.5021	Ave		3.3885				5.4		20.0			
Trichlorofluoromethane	2.1129 2.6771	2.4891 2.6711	2.6082	2.9420	2.8957	Ave		2.6280			0.1000	10.5		20.0			
Ethyl ether	1.5986 1.6580	1.5550 1.6659	1.7101	1.6896	1.7164	Ave		1.6562				3.6		20.0			
Acrolein	0.3073 0.2886	0.2609 0.2968	0.2630	0.2687	0.2862	Ave		0.2816				6.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0968 1.2717	0.9990 1.4375	1.3455	1.3727	1.3219	Ave		1.2636			0.1000	12.5		20.0			
1,1-Dichloroethene	+++++ 1.3066	1.2795 1.3607	1.3524	1.3581	1.2951	Ave		1.3254			0.1000	2.7		20.0			
Acetone	0.8776 0.7180	0.7279 0.7186	0.7319	0.6495	0.7504	Ave		0.7391			0.1000	9.3		20.0			
Iodomethane	2.2394 2.7800	2.2710 2.7996	2.4733	2.6395	2.7896	Ave		2.5703				9.5		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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

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	3.5968 4.1070	4.2729 4.1835	4.5520	4.3486	4.1506	Ave		4.1731			0.1000	7.1		20.0			
Methyl acetate	2.4892 2.1876	1.9000 2.1753	2.1903	2.2195	2.2964	Ave		2.2083			0.1000	7.9		20.0			
Allyl chloride	4.1106 3.5481	3.2012 3.5019	3.5796	3.4400	3.5569	Ave		3.5626				7.7		20.0			
Methylene Chloride	2.7844 1.5927	2.3128 1.5746	1.6737	1.7676	1.6680	Lin1	0.6729	1.5866			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.2830 0.2732	0.2494 0.2841	0.2682	0.2585	0.2746	Ave		0.2701				4.7		20.0			
Methyl tert-butyl ether	4.5075 4.7245	4.5089 4.7736	4.8494	4.6313	4.8157	Ave		4.6873			0.1000	3.0		20.0			
trans-1,2-Dichloroethene	1.6005 1.4465	1.4841 1.4644	1.4664	1.4534	1.4833	Ave		1.4855			0.1000	3.5		20.0			
Acrylonitrile	0.9174 0.9130	0.9077 0.9112	0.8945	0.9008	0.9143	Ave		0.9084				0.9		20.0			
Hexane	2.2919 2.1708	2.1060 2.2610	2.3244	2.2376	2.1878	Ave		2.2256				3.4		20.0			
Vinyl acetate	3.9010 4.2450	4.1543 4.1713	4.2172	4.2828	4.3694	Ave		4.1916				3.5		20.0			
1,1-Dichloroethane	3.0436 3.3170	2.9319 3.3518	3.3282	3.3367	3.3251	Ave		3.2335			0.2000	5.3		20.0			
2-Butanone (MEK)	1.2418 1.2959	1.1553 1.2432	1.2326	1.2558	1.2582	Ave		1.2404			0.1000	3.4		20.0			
2,2-Dichloropropane	1.9704 1.8971	1.7430 1.9015	2.0752	1.9250	1.9150	Ave		1.9182				5.2		20.0			
cis-1,2-Dichloroethene	1.8903 1.6572	1.7183 1.6742	1.7542	1.6402	1.6369	Ave		1.7102			0.1000	5.3		20.0			
Chlorobromomethane	0.8465 0.8481	0.8024 0.8622	0.8747	0.8610	0.8720	Ave		0.8524				2.9		20.0			
Tetrahydrofuran	0.7866 0.8228	0.9377 0.8200	0.7806	0.8212	0.8474	Ave		0.8309				6.3		20.0			
Chloroform	2.8273 2.7146	2.7586 2.7402	2.7759	2.6776	2.7472	Ave		2.7488			0.2000	1.7		20.0			
1,1,1-Trichloroethane	2.2312 2.3778	2.0098 2.4052	2.5292	2.2929	2.4628	Ave		2.3298			0.1000	7.4		20.0			
Cyclohexane	2.7087 2.7962	2.2533 2.8694	2.8940	2.7793	2.8209	Ave		2.7317			0.1000	8.0		20.0			
1,1-Dichloropropene	1.8698 2.0511	1.6358 2.1005	2.1239	1.9946	2.0861	Ave		1.9803				8.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

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								
Isobutyl alcohol	0.1180 0.1520	0.1350 0.1553	0.1251	0.1493	0.1543	Ave		0.1413				10.8		20.0			
Carbon tetrachloride	1.8002 2.3305	1.7129 2.3853	2.4082	2.2743	2.3320	Ave		2.1776			0.1000	13.4		20.0			
Benzene	6.1097 5.7913	5.5290 5.8128	5.9632	5.7793	5.8216	Ave		5.8296			0.5000	3.1		20.0			
1,2-Dichloroethane	3.1745 2.8344	2.8883 2.8350	2.9203	2.9702	2.9183	Ave		2.9344			0.1000	4.0		20.0			
n-Heptane	1.8130 1.8722	1.7385 1.8837	1.9241	1.9115	1.8656	Ave		1.8584				3.4		20.0			
Trichloroethene	1.4994 1.5334	1.6596 1.5588	1.5820	1.5344	1.5790	Ave		1.5638			0.2000	3.3		20.0			
Methylcyclohexane	1.4759 1.8559	1.5091 1.9218	1.8934	1.8637	1.8870	Ave		1.7724			0.1000	10.9		20.0			
1,2-Dichloropropane	1.5295 1.7858	1.7473 1.8102	1.7930	1.8072	1.8050	Ave		1.7540			0.1000	5.8		20.0			
1,4-Dioxane	0.0016 0.0075	0.0020 0.0075	0.0074	0.0069	0.0075	Lin1	-0.075	0.0076							0.9990		0.9900
Dibromomethane	1.0214 1.0664	1.1252 1.0904	1.0646	1.0831	1.0915	Ave		1.0775			0.1000	3.0		20.0			
Bromodichloromethane	1.9717 2.1574	1.9345 2.2025	2.0958	2.1889	2.1791	Ave		2.1043			0.2000	5.2		20.0			
2-Chloroethyl vinyl ether	0.5813 0.8434	0.5982 0.8976	0.7581	0.7566	0.7874	Ave		0.7461				15.8		20.0			
cis-1,3-Dichloropropene	2.3031 2.4732	2.3021 2.5083	2.4466	2.3774	2.4744	Ave		2.4122			0.2000	3.5		20.0			
4-Methyl-2-pentanone (MIBK)	1.2282 1.3832	1.2504 1.2949	1.3267	1.3906	1.3777	Ave		1.3217			0.1000	5.0		20.0			
Toluene	1.6889 1.8543	1.7183 1.8475	1.7858	1.8305	1.8071	Ave		1.7904			0.4000	3.6		20.0			
Ethyl methacrylate	0.7904 1.0441	0.8733 1.0681	0.9542	1.0041	1.0303	Ave		0.9663				10.5		20.0			
trans-1,3-Dichloropropene	1.0287 1.2264	1.0029 1.2330	1.1557	1.1518	1.1887	Ave		1.1410			0.1000	8.0		20.0			
1,1,2-Trichloroethane	0.5244 0.5644	0.5744 0.5543	0.5833	0.5756	0.5565	Ave		0.5618			0.1000	3.5		20.0			
Tetrachloroethene	0.6489 0.8036	0.7270 0.8078	0.7805	0.8229	0.7837	Ave		0.7678			0.2000	7.9		20.0			
2-Hexanone	0.8882 1.0220	0.8800 0.9693	0.9422	0.9979	1.0140	Ave		0.9591			0.1000	6.0		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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichloropropane	1.2152 1.2301	1.1886 1.2103	1.1659	1.2179	1.1907	Ave		1.2027				1.8		20.0			
Dibromochloromethane	0.8698 0.9083	0.7465 0.9110	0.8401	0.8720	0.8932	Ave		0.8630			0.1000	6.6		20.0			
1,2-Dibromoethane	0.7262 0.7695	0.6873 0.7723	0.7520	0.7438	0.7601	Ave		0.7445				4.0		20.0			
Chlorobenzene	2.0755 2.1380	1.9656 2.1002	2.1238	2.1065	2.0920	Ave		2.0860			0.5000	2.7		20.0			
Ethylbenzene	3.3318 3.5006	3.1012 3.4924	3.4269	3.4530	3.4309	Ave		3.3910			0.1000	4.1		20.0			
1,1,1,2-Tetrachloroethane	0.7085 0.8599	0.6915 0.8571	0.8286	0.8226	0.8347	Ave		0.8004				8.8		20.0			
m,p-Xylene	1.0922 1.3988	1.1924 1.3911	1.3401	1.3106	1.3402	Ave		1.2951			0.1000	8.7		20.0			
o-Xylene	1.1070 1.3597	1.2205 1.3853	1.2920	1.3076	1.3386	Ave		1.2872			0.3000	7.4		20.0			
Styrene	1.9947 2.4721	1.8977 2.5173	2.2357	2.2644	2.3554	Ave		2.2482			0.3000	10.3		20.0			
Bromoform	0.4835 0.6310	0.4533 0.6463	0.5396	0.5786	0.6049	Ave		0.5625			0.1000	13.1		20.0			
Isopropylbenzene	2.9271 3.0965	2.8114 3.0523	3.2851	3.1569	3.1752	Ave		3.0721			0.1000	5.2		20.0			
1,1,2,2-Tetrachloroethane	0.8836 0.8530	0.9111 0.8136	0.8919	0.8879	0.8909	Ave		0.8760			0.3000	3.7		20.0			
trans-1,4-Dichloro-2-butene	0.2743 0.4061	0.2671 0.4098	0.3292	0.3664	0.4006	Ave		0.3505				17.5		20.0			
N-Propylbenzene	3.5241 3.5879	3.3314 3.5107	3.7465	3.5943	3.6290	Ave		3.5606				3.6		20.0			
Bromobenzene	0.8730 0.8831	0.8910 0.8743	0.9255	0.8891	0.9106	Ave		0.8924				2.2		20.0			
1,2,3-Trichloropropane	0.2661 0.2918	0.3113 0.2848	0.3060	0.2976	0.3015	Ave		0.2942				5.2		20.0			
1,3,5-Trimethylbenzene	2.4332 2.6917	2.4594 2.6628	2.6560	2.6817	2.7063	Ave		2.6130				4.4		20.0			
2-Chlorotoluene	0.8316 0.8055	0.6795 0.8048	0.8474	0.8155	0.8266	Ave		0.8015				7.0		20.0			
4-Chlorotoluene	0.6953 0.8471	0.7133 0.8307	0.8801	0.8554	0.8514	Ave		0.8105				9.2		20.0			
tert-Butylbenzene	0.6039 0.5509	0.5039 0.5399	0.5403	0.5280	0.5410	Ave		0.5440				5.6		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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

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	2.5353 2.8340	2.5377 2.8194	2.8855	2.8140	2.8961	Ave		2.7603				5.7		20.0			
sec-Butylbenzene	2.7853 2.9616	2.6648 2.9577	3.1115	3.0059	3.0083	Ave		2.9279				5.2		20.0			
4-Isopropyltoluene	2.3507 2.6935	2.4540 2.7226	2.7035	2.6382	2.7264	Ave		2.6127				5.7		20.0			
1,3-Dichlorobenzene	1.4968 1.6665	1.5833 1.6527	1.7085	1.6641	1.6881	Ave		1.6371			0.6000	4.5		20.0			
1,4-Dichlorobenzene	1.7620 1.7152	1.6463 1.7099	1.8135	1.7430	1.7260	Ave		1.7308			0.5000	3.0		20.0			
n-Butylbenzene	2.1496 2.2010	1.9990 2.1687	2.2701	2.1878	2.1765	Ave		2.1647				3.8		20.0			
1,2-Dichlorobenzene	1.5749 1.6405	1.6002 1.6064	1.6423	1.6158	1.6710	Ave		1.6216			0.4000	2.0		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2166	0.2964 0.2150	0.2393	0.2198	0.2198	Ave		0.2345			0.0500	13.5		20.0			
1,2,4-Trichlorobenzene	1.0384 1.0344	0.9134 1.0164	1.0483	1.0196	1.0480	Ave		1.0169			0.2000	4.7		20.0			
Hexachlorobutadiene	0.2917 0.3363	0.2011 0.3150	0.3343	0.3354	0.3299	Ave		0.3063				16.0		20.0			
Naphthalene	2.7896 3.2999	2.8830 3.1946	3.0936	3.1195	3.1916	Ave		3.0817				5.9		20.0			
1,2,3-Trichlorobenzene	1.0292 1.0023	0.9332 0.9831	0.9438	0.9723	0.9967	Ave		0.9801				3.4		20.0			
Dibromofluoromethane (Surr)	1.3744 1.3086	1.3067 1.3725	1.3039	1.3126	1.3017	Ave		1.3258				2.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8871 0.8508	0.8966 0.8881	0.9093	0.9047	0.8568	Ave		0.8848				2.6		20.0			
Toluene-d8 (Surr)	2.2907 2.3374	2.2466 2.3026	2.2410	2.2692	2.2384	Ave		2.2751				1.6		20.0			
4-Bromofluorobenzene (Surr)	0.7577 0.7790	0.7402 0.7798	0.7363	0.7565	0.7513	Ave		0.7573				2.3		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-431591/6	P35500.D
Level 2	IC 480-431591/7	P35501.D
Level 3	IC 480-431591/8	P35502.D
Level 4	IC 480-431591/9	P35503.D
Level 5	ICIS 480-431591/10	P35504.D
Level 6	IC 480-431591/11	P35505.D
Level 7	IC 480-431591/12	P35506.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	+++++ 777097	13285 1603818	80004	158381	412803	+++++ 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	16862 1401159	31964 2859990	154664	294461	742964	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	8854 986755	20489 2059365	105596	202657	530048	0.500 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	9153 994786	20956 2057750	108687	214656	542436	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	5015 560876	12220 1133997	57677	113473	292477	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	3559 565859	10348 1157840	57246	110228	295445	0.500 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	11504 1314786	24236 2708781	137608	274673	677934	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	7735 1061729	18504 2201581	98730	225865	560546	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	5852 657552	11560 1373055	64732	129713	332255	0.500 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	5624 572260	9697 1222994	49771	103146	277045	2.50 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4015 504351	7427 1184817	50931	105382	255901	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	+++++ 518203	9512 1121550	51192	104260	250706	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	16063 1423826	27056 2961393	138527	249318	726347	2.50 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	8198 1102577	16883 2307512	93624	202637	540011	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	13167 1628865	31765 3448155	172310	333851	803480	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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	18225 1735248	28250 3585905	165821	340794	889070	1.00 100	2.00 200	10.0	20.0	50.0
Allyl chloride	FB	Ave	15048 1407198	23798 2886342	135502	264097	688555	0.500 50.0	1.00 100	5.00	10.0	25.0
Methylene Chloride	FB	Lin1	10193 631660	17194 1297839	63355	135705	322898	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	10359 1083461	18542 2341636	101525	198474	531630	5.00 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	16501 1873766	33520 3934573	183568	355549	932229	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,2-Dichloroethene	FB	Ave	5859 573693	11033 1206996	55508	111578	287136	0.500 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	33584 3621148	67480 7510198	338621	691553	1769852	5.00 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	8390 860959	15656 1863595	87989	171782	423525	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	28561 3367199	61767 6876314	319274	657591	1691672	1.00 100	2.00 200	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	11142 1315529	21796 2762649	125984	256160	643673	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	22729 2569810	42942 5123586	233286	482061	1217864	2.50 250	5.00 500	25.0	50.0	125
2,2-Dichloropropane	FB	Ave	7213 752393	12958 1567250	78553	147782	370710	0.500 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	6920 657261	12774 1379934	66404	125923	316868	0.500 50.0	1.00 100	5.00	10.0	25.0
Chlorobromomethane	FB	Ave	3099 336367	5965 710637	33112	66100	168799	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	5759 652649	13942 1351700	59097	126082	328099	1.00 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	10350 1076628	20508 2258571	105077	205567	531806	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	8168 943032	14941 1982482	95739	176028	476757	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	9916 1108995	16751 2365087	109550	213371	546074	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloropropene	FB	Ave	6845 813493	12161 1731271	80396	153125	403830	0.500 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	10797 1507146	25089 3199848	118363	286601	746972	12.5 1250	25.0 2500	125	250	625
Carbon tetrachloride	FB	Ave	6590 924284	12734 1966016	91158	174605	451423	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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

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	22366 2296863	41103 4791121	225731	443689	1126950	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	11621 1124124	21472 2336661	110546	228030	564936	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	6637 742536	12924 1552595	72836	146750	361147	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	5489 608150	12338 1284788	59884	117797	305670	0.500 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	5403 736046	11219 1584032	71671	143083	365297	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	5599 708273	12990 1492039	67871	138743	349413	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBNZ d5	Lin1	234 119344	612 256372	11356	21223	59725	10.0 1000	20.0 2000	100	200	500
Dibromomethane	FB	Ave	3739 422953	8365 898733	40298	83151	211288	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromodichloromethane	FB	Ave	7218 855626	14381 1815404	79335	168045	421828	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	2128 334488	4447 739819	28696	58086	152432	0.500 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	8431 980877	17114 2067448	92613	182518	478995	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	46117 5486893	94920 10993705	510640	1067878	2760605	2.50 250	5.00 500	25.0	50.0	125
Toluene	CBNZ d5	Ave	12683 1471141	26088 3137078	137469	281143	724227	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBNZ d5	Ave	5936 828340	13258 1813523	73454	154209	412882	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	7725 972973	15227 2093550	88964	176894	476382	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3938 447764	8720 941194	44899	88400	223031	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBNZ d5	Ave	4873 637583	11038 1371620	60083	126379	314063	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBNZ d5	Ave	33352 4054040	66806 8229056	362628	766303	2031888	2.50 250	5.00 500	25.0	50.0	125
1,3-Dichloropropane	CBNZ d5	Ave	9126 975941	18046 2055098	89745	187046	477169	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromochloromethane	CBNZ d5	Ave	6532 720629	11334 1546880	64666	133924	357942	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBNZ d5	Ave	5454 610491	10435 1311295	57888	114229	304626	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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

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	CBNZ d5	Ave	15587 1696242	29843 3566104	163484	323524	838396	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBNZ d5	Ave	25021 2777255	47084 5929915	263792	530329	1374974	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5321 682259	10498 1455307	63781	126343	334519	0.500 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBNZ d5	Ave	8202 1109809	18104 2362092	103156	201290	537112	0.500 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBNZ d5	Ave	8313 1078735	18530 2352187	99456	200820	536465	0.500 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBNZ d5	Ave	14980 1961304	28811 4274249	172097	347769	943957	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBNZ d5	Ave	3631 500616	6882 1097327	41539	88871	242401	0.500 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCBd 4	Ave	22354 2689525	42899 5816287	257078	509320	1327865	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6748 740901	13902 1550323	69794	143249	372557	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2095 352735	4075 780922	25759	59108	167516	0.500 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCBd 4	Ave	26913 3116316	50833 6689674	293185	579881	1517676	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCBd 4	Ave	6667 767036	13596 1666007	72425	143435	380801	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCBd 4	Ave	2032 253426	4750 542777	23947	48008	126085	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	18582 2337944	37528 5073987	207848	432648	1131771	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCBd 4	Ave	6351 699671	10368 1533500	66313	131563	345673	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCBd 4	Ave	5310 735793	10884 1582893	68877	138000	356039	0.500 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCBd 4	Ave	4612 478461	7689 1028750	42283	85185	226228	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19362 2461539	38722 5372379	225810	453989	1211148	0.500 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCBd 4	Ave	21271 2572374	40662 5635838	243490	484957	1258100	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCBd 4	Ave	17952 2339435	37445 5188034	211564	425628	1140184	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCBd 4	Ave	11431 1447443	24160 3149163	133702	268471	705989	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.: 480-141245-1 Analy Batch No.: 431591

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 15:51 Calibration End Date: 08/27/2018 18:37 Calibration ID: 34644

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	DCBd 4	Ave	13456 1489766	25120 3258220	141916	281211	721807	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCBd 4	Ave	16416 1911700	30503 4132490	177651	352971	910214	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCBd 4	Ave	12027 1424912	24417 3061024	128519	260688	698818	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 188092	4523 409743	18726	35459	91930	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7930 898465	13938 1936749	82032	164497	438297	0.500 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCBd 4	Ave	2228 292132	3068 600317	26164	54106	137964	0.500 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCBd 4	Ave	21304 2866134	43991 6087363	242090	503288	1334729	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7860 870601	14240 1873247	73857	156863	416836	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	251572 259500	242846 282814	246796	251922	251977	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	162370 168724	166634 182990	172103	173633	165867	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	860148 927227	852721 977429	862538	871285	897061	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	284517 309035	280962 331035	283377	290475	301072	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\HP5973P\20180827-74204.b\P35500.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Aug-2018 15:51:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0074204-006
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:08 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:37:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.342	-0.006	97	183038	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.290	14.291	-0.001	89	375491	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	97	381845	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.545	9.539	0.006	92	251572	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.995	9.996	-0.001	0	162370	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	12.325	12.326	-0.001	95	860148	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.793	-0.006	87	284517	25.0	25.0	
10 Dichlorodifluoromethane	85	4.240	4.247	-0.007	41	4192	0.5000	0.2863	a
11 Chloromethane	50	4.666	4.672	-0.006	96	16862	0.5000	0.5827	
17 Vinyl chloride	62	4.849	4.855	-0.006	33	8854	0.5000	0.4619	
144 Butadiene	54	4.891	4.898	-0.007	89	9153	0.5000	0.4656	
12 Bromomethane	94	5.488	5.482	0.006	61	5015	0.5000	0.4648	
13 Chloroethane	64	5.646	5.615	0.031	1	3559	0.5000	0.3519	
19 Dichlorofluoromethane	67	5.889	5.895	-0.006	19	11504	0.5000	0.4637	
14 Trichlorofluoromethane	101	5.968	5.962	0.006	37	7735	0.5000	0.4020	
20 Ethyl ether	59	6.309	6.321	-0.012	87	5852	0.5000	0.4826	a
22 Acrolein	56	6.625	6.619	0.006	95	5624	2.50	2.73	
16 1,1,2-Trichloro-1,2,2-trif	101	6.625	6.637	-0.012	66	4015	0.5000	0.4340	a
25 1,1-Dichloroethene	96	6.735	6.729	0.006	42	7035	0.5000	0.7250	
24 Acetone	43	6.814	6.808	0.006	75	16063	2.50	2.97	
18 Iodomethane	142	7.015	7.021	-0.007	97	8198	0.5000	0.4356	
27 Carbon disulfide	76	7.124	7.124	0.000	96	13167	0.5000	0.4310	
30 Methyl acetate	43	7.185	7.173	0.012	97	18225	1.00	1.13	a
28 3-Chloro-1-propene	41	7.203	7.197	0.006	83	15048	0.5000	0.5769	
31 Methylene Chloride	84	7.398	7.398	0.000	89	10193	0.5000	0.4534	
33 2-Methyl-2-propanol	59	7.410	7.416	-0.006	60	10359	5.00	5.24	
32 Methyl tert-butyl ether	73	7.611	7.605	0.006	93	16501	0.5000	0.4808	
35 trans-1,2-Dichloroethene	96	7.708	7.696	0.012	60	5859	0.5000	0.5387	
34 Acrylonitrile	53	7.732	7.733	0.000	99	33584	5.00	5.05	
36 Hexane	57	7.891	7.897	-0.006	92	8390	0.5000	0.5149	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.189	8.195	-0.006	96	28561	1.00	0.9307	a
40 1,1-Dichloroethane	63	8.249	8.250	-0.001	92	11142	0.5000	0.4706	
44 2-Butanone (MEK)	43	8.937	8.931	0.006	95	22729	2.50	2.50	
45 2,2-Dichloropropane	77	8.937	8.949	-0.012	62	7213	0.5000	0.5136	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	68	6920	0.5000	0.5527	
50 Chlorobromomethane	128	9.302	9.296	0.006	82	3099	0.5000	0.4966	
51 Tetrahydrofuran	42	9.314	9.308	0.006	78	5759	1.00	0.9467	a
49 Chloroform	83	9.320	9.326	-0.006	88	10350	0.5000	0.5143	
52 1,1,1-Trichloroethane	97	9.570	9.558	0.012	35	8168	0.5000	0.4788	
54 Cyclohexane	56	9.600	9.600	0.000	92	9916	0.5000	0.4958	
56 1,1-Dichloropropene	75	9.734	9.740	-0.006	69	6845	0.5000	0.4721	
53 Isobutyl alcohol	43	9.758	9.752	0.006	79	10797	12.5	10.4	
55 Carbon tetrachloride	117	9.764	9.752	0.012	77	6590	0.5000	0.4133	a
57 Benzene	78	10.044	10.038	0.006	92	22366	0.5000	0.5240	
60 1,2-Dichloroethane	62	10.093	10.093	0.000	93	11621	0.5000	0.5409	
59 n-Heptane	43	10.105	10.099	0.006	75	6637	0.5000	0.4878	a
62 Trichloroethene	95	10.798	10.793	0.005	91	5489	0.5000	0.4794	
64 Methylcyclohexane	83	10.993	10.987	0.006	90	5403	0.5000	0.4164	
63 1,2-Dichloropropane	63	11.127	11.127	0.000	79	5599	0.5000	0.4360	a
68 1,4-Dioxane	88	11.261	11.255	0.006	10	234	10.0	12.0	Ma
69 Dibromomethane	93	11.328	11.334	-0.006	87	3739	0.5000	0.4740	
70 Dichlorobromomethane	83	11.456	11.468	-0.012	87	7218	0.5000	0.4685	
71 2-Chloroethyl vinyl ether	63	11.729	11.717	0.012	13	2128	0.5000	0.3896	a
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	87	8431	0.5000	0.4774	
75 4-Methyl-2-pentanone (MIBK	43	12.106	12.101	0.006	99	46117	2.50	2.32	
76 Toluene	92	12.417	12.423	-0.006	94	12683	0.5000	0.4717	
77 Ethyl methacrylate	69	12.636	12.642	-0.006	80	5936	0.5000	0.4090	
78 trans-1,3-Dichloropropene	75	12.721	12.715	0.006	91	7725	0.5000	0.4508	a
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	87	3938	0.5000	0.4667	
80 Tetrachloroethene	166	13.141	13.147	-0.006	85	4873	0.5000	0.4226	
83 2-Hexanone	43	13.195	13.189	0.006	96	33352	2.50	2.32	
82 1,3-Dichloropropane	76	13.232	13.238	-0.006	84	9126	0.5000	0.5052	
81 Chlorodibromomethane	129	13.585	13.573	0.012	86	6532	0.5000	0.5039	
85 Ethylene Dibromide	107	13.773	13.773	0.000	91	5454	0.5000	0.4878	
87 Chlorobenzene	112	14.333	14.333	0.000	90	15587	0.5000	0.4975	
89 Ethylbenzene	91	14.382	14.376	0.006	97	25021	0.5000	0.4913	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	84	5321	0.5000	0.4426	
90 m-Xylene & p-Xylene	106	14.516	14.510	0.006	0	8202	0.5000	0.4217	
93 o-Xylene	106	15.057	15.063	-0.006	97	8313	0.5000	0.4300	
94 Styrene	104	15.094	15.088	0.006	90	14980	0.5000	0.4436	
92 Bromoform	173	15.477	15.477	0.000	38	3631	0.5000	0.4298	
95 Isopropylbenzene	105	15.495	15.489	0.006	96	22354	0.5000	0.4764	
97 1,1,2,2-Tetrachloroethane	83	15.963	15.964	-0.001	93	6748	0.5000	0.5043	
98 trans-1,4-Dichloro-2-buten	53	16.024	16.012	0.012	41	2095	0.5000	0.3913	
99 N-Propylbenzene	91	16.018	16.018	0.000	97	26913	0.5000	0.4949	
100 Bromobenzene	156	16.036	16.037	-0.001	87	6667	0.5000	0.4891	
101 1,2,3-Trichloropropane	110	16.061	16.061	0.000	36	2032	0.5000	0.4523	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	94	18582	0.5000	0.4656	
103 2-Chlorotoluene	126	16.231	16.225	0.006	94	6351	0.5000	0.5188	
105 4-Chlorotoluene	126	16.359	16.353	0.006	98	5310	0.5000	0.4290	
106 tert-Butylbenzene	134	16.651	16.645	0.006	90	4612	0.5000	0.5551	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	95	19362	0.5000	0.4593	

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	16.912	16.913	-0.001	96	21271	0.5000	0.4757	
112 4-Isopropyltoluene	119	17.059	17.059	-0.001	97	17952	0.5000	0.4499	
110 1,3-Dichlorobenzene	146	17.174	17.180	-0.006	92	11431	0.5000	0.4571	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	88	13456	0.5000	0.5090	
115 n-Butylbenzene	91	17.576	17.576	0.000	96	16416	0.5000	0.4965	
116 1,2-Dichlorobenzene	146	17.776	17.776	0.000	94	12027	0.5000	0.4856	
117 1,2-Dibromo-3-Chloropropan	75	18.811	18.823	-0.012	0	3342	0.5000	0.9331	
119 1,2,4-Trichlorobenzene	180	19.918	19.912	0.006	93	7930	0.5000	0.5105	
120 Hexachlorobutadiene	225	20.033	20.033	0.000	1	2228	0.5000	0.4763	a
121 Naphthalene	128	20.362	20.356	0.006	98	21304	0.5000	0.4526	
122 1,2,3-Trichlorobenzene	180	20.733	20.733	0.000	88	7860	0.5000	0.5251	
S 125 Total BTEX	1				0			2.34	
S 126 Xylenes, Total	1				0			0.8516	
S 123 1,2-Dichloroethene, Total	1				0			1.09	
S 124 1,3-Dichloropropene, Total	1				0			0.9282	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00133	Amount Added:	0.50	Units: uL	
GAS CORP mix_00298	Amount Added:	0.50	Units: uL	
P 8260 IS_00326	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added:	1.25	Units: uL	Run Reagent

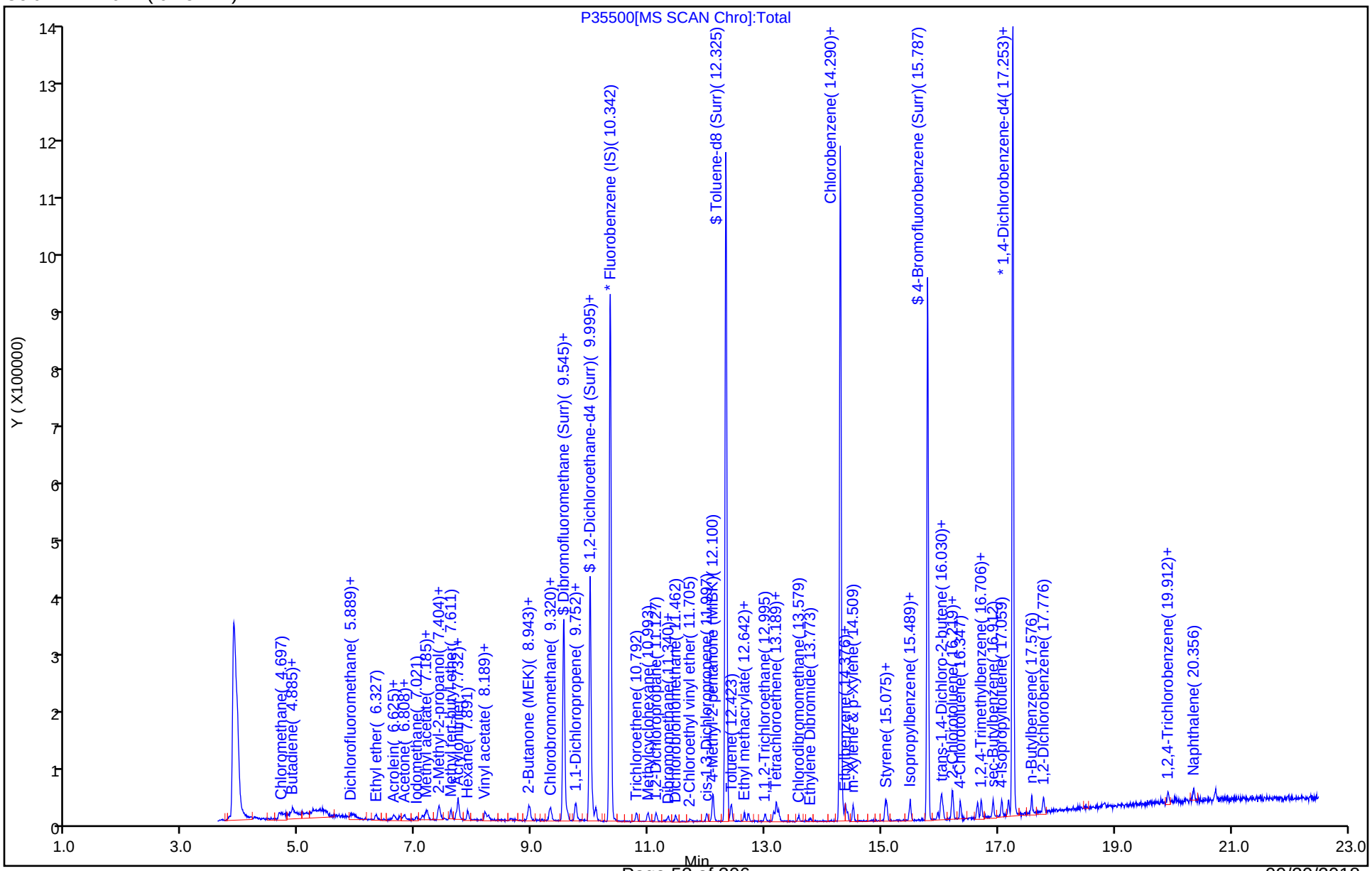
Report Date: 28-Aug-2018 09:52:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D

Injection Date:	27-Aug-2018 15:51:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

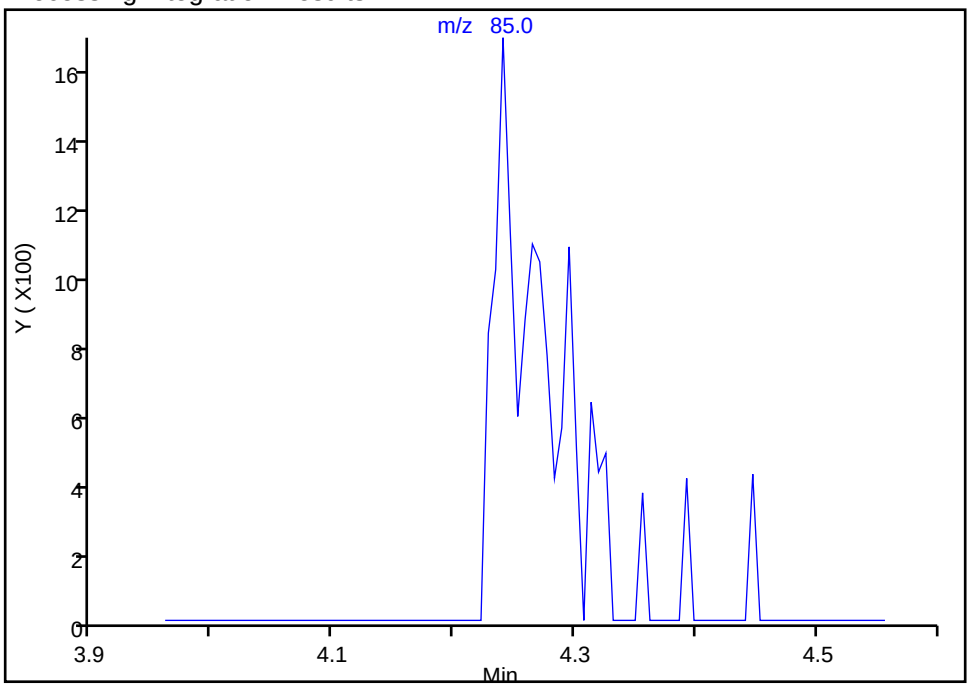
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

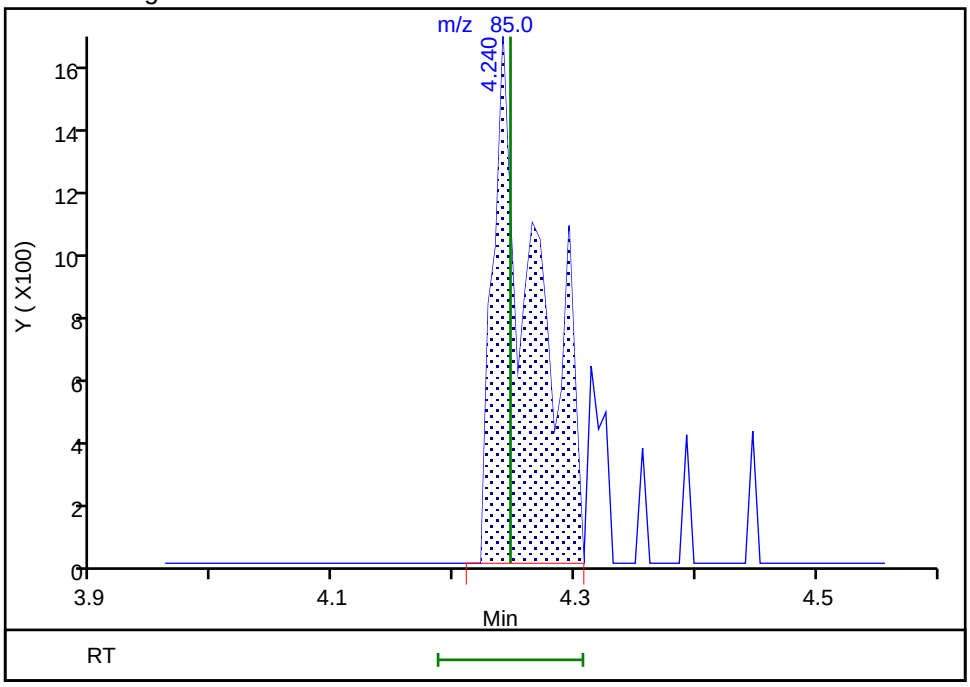
Not Detected
Expected RT: 4.25

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 4192
Amount: 0.286250
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:40:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

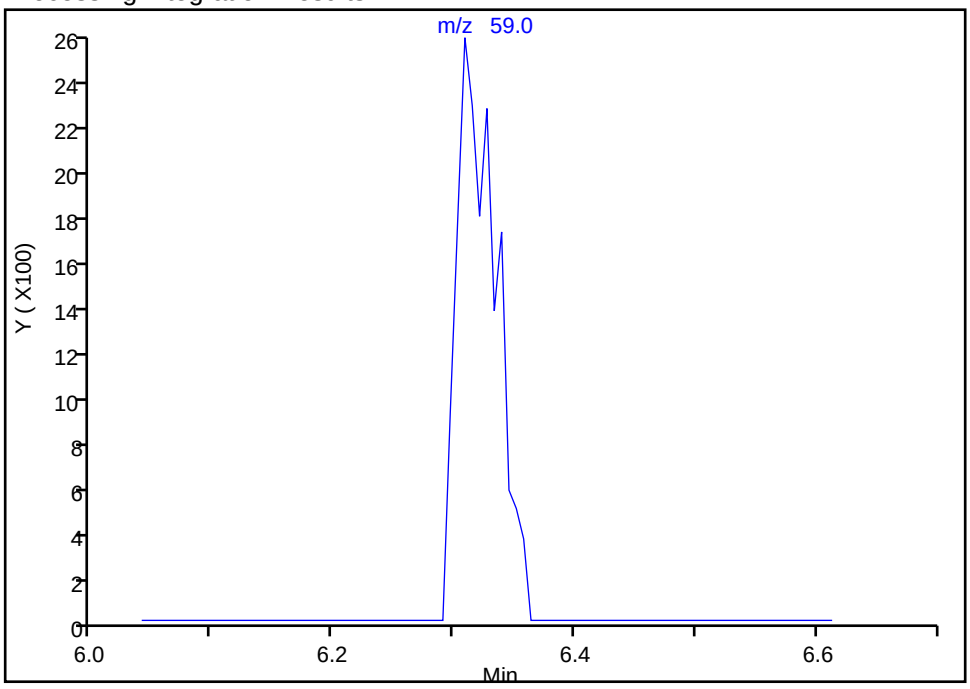
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Ethyl ether, CAS: 60-29-7

Signal: 1

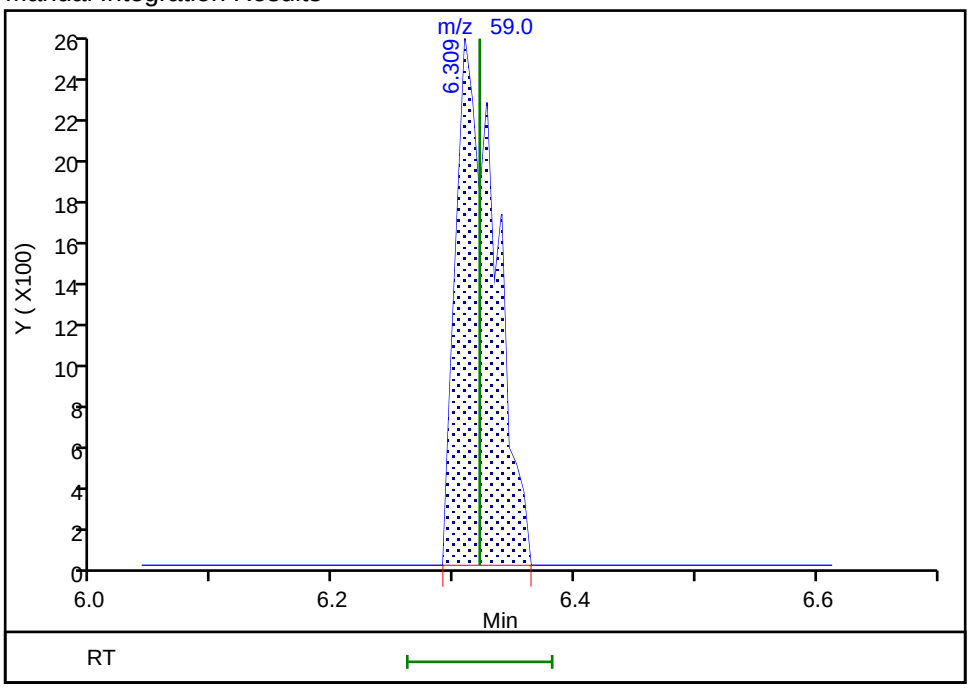
Not Detected
Expected RT: 6.32

Processing Integration Results



Manual Integration Results

RT: 6.31
Area: 5852
Amount: 0.482604
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:40:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

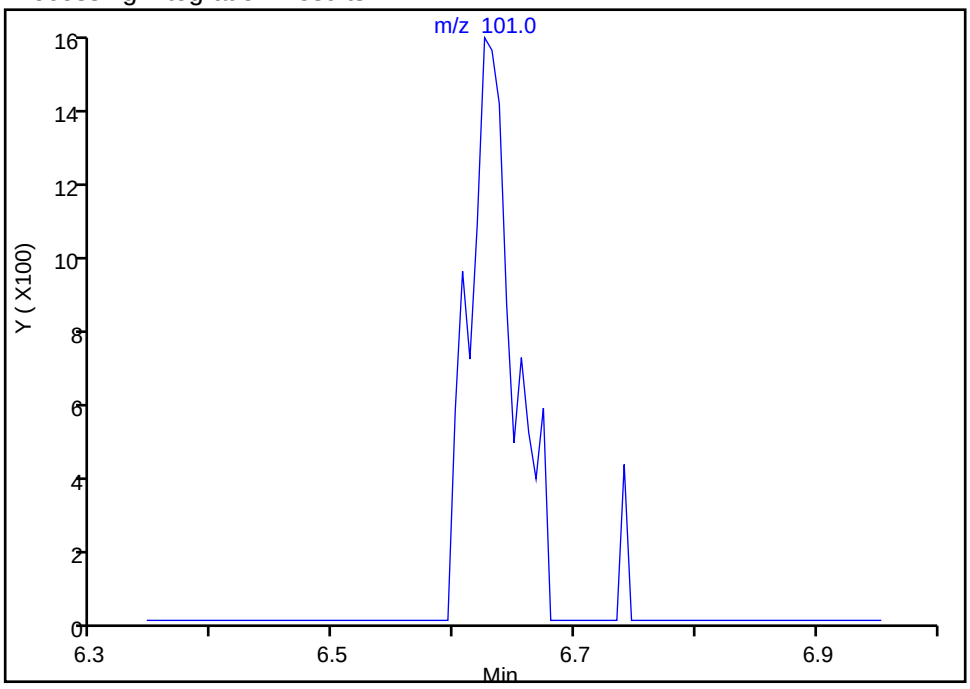
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

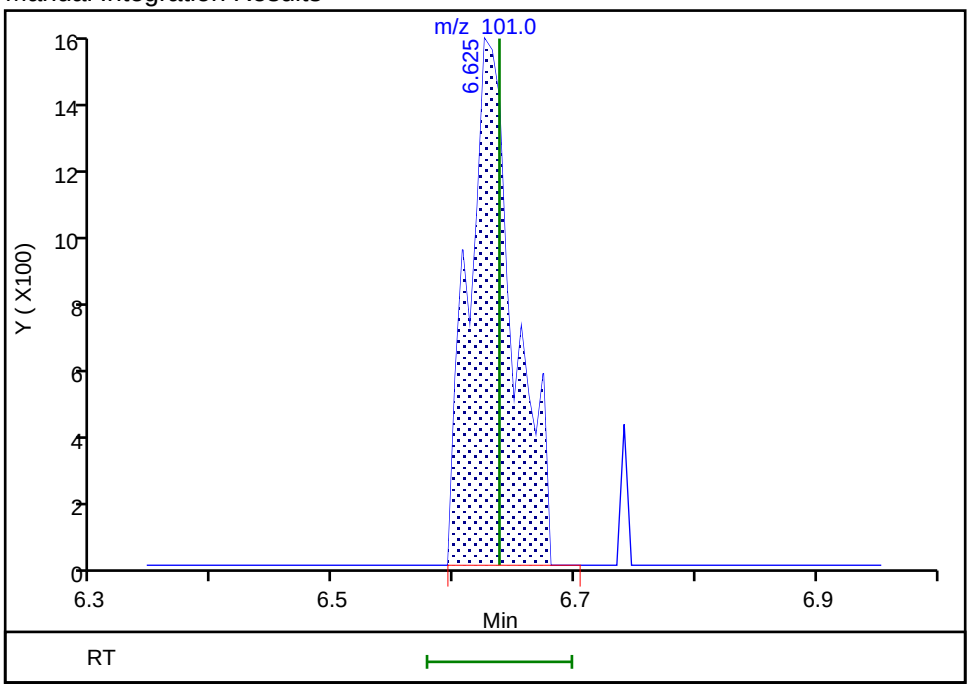
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.63
Area: 4015
Amount: 0.433993
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:40:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

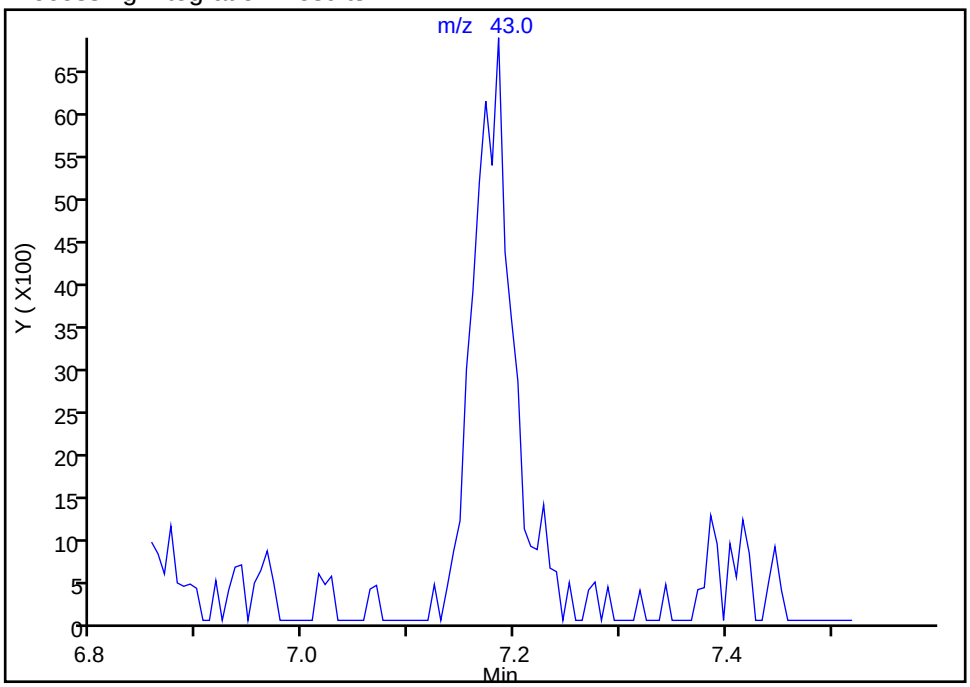
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methyl acetate, CAS: 79-20-9

Signal: 1

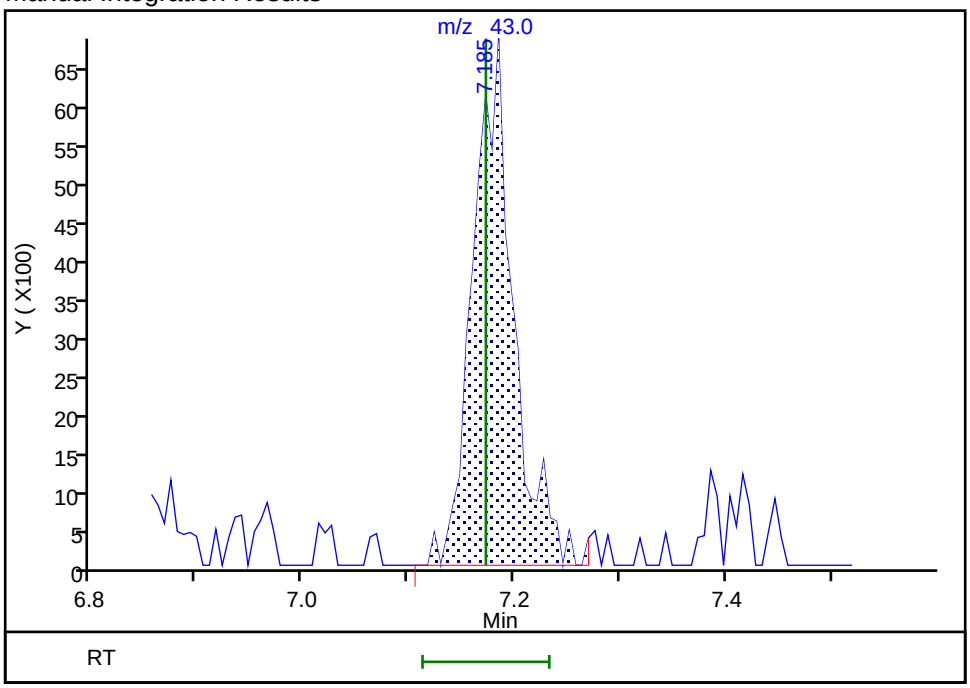
Not Detected
Expected RT: 7.17

Processing Integration Results



Manual Integration Results

RT: 7.18
Area: 18225
Amount: 1.127198
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:40:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

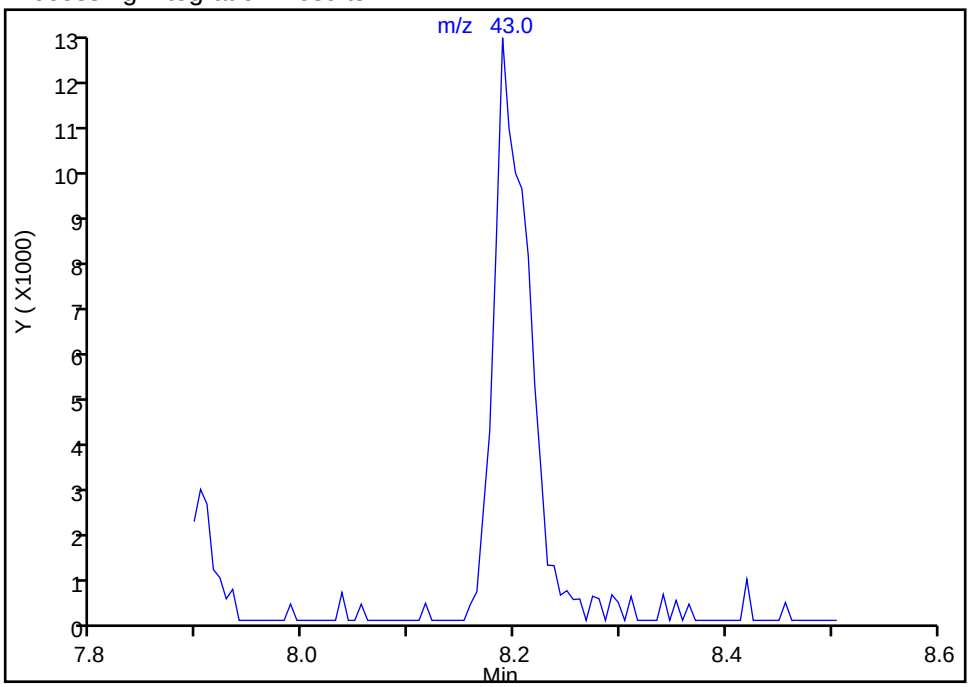
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

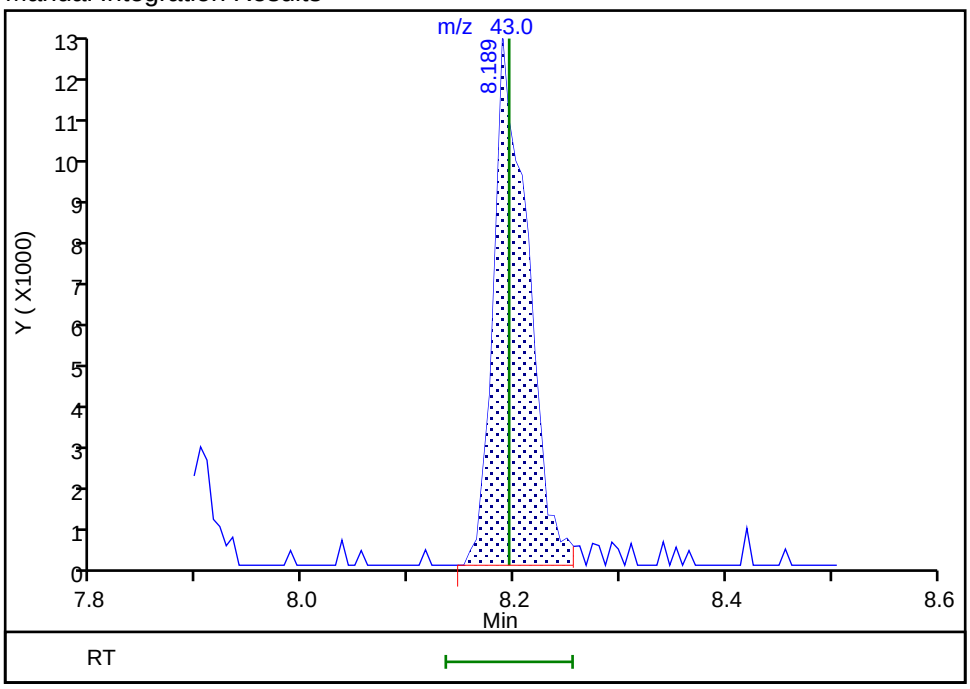
Not Detected
Expected RT: 8.19

Processing Integration Results



Manual Integration Results

RT: 8.19
Area: 28561
Amount: 0.930668
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

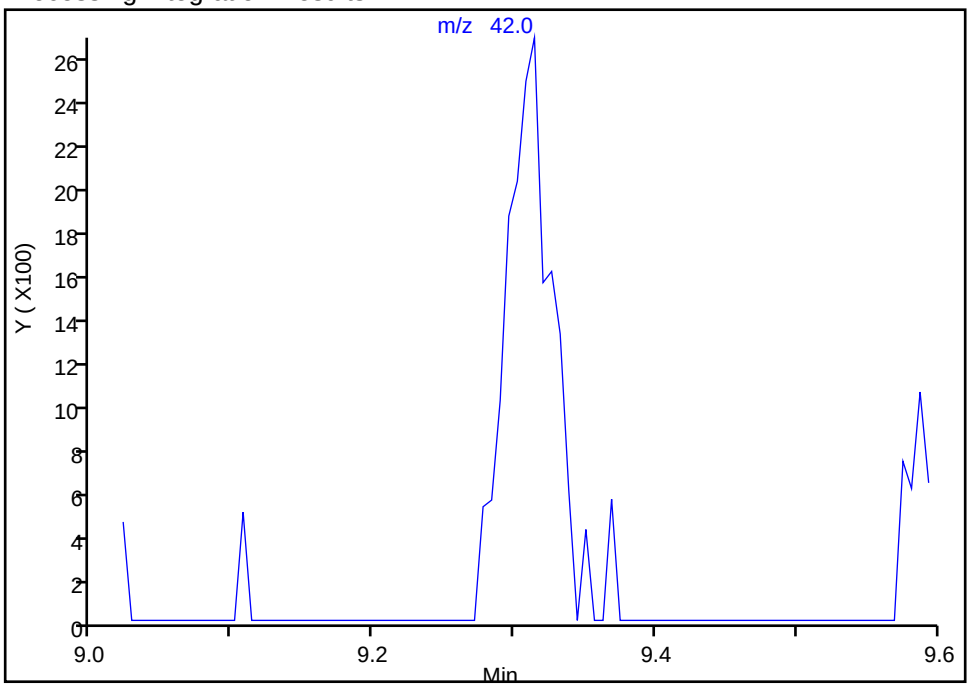
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

51 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

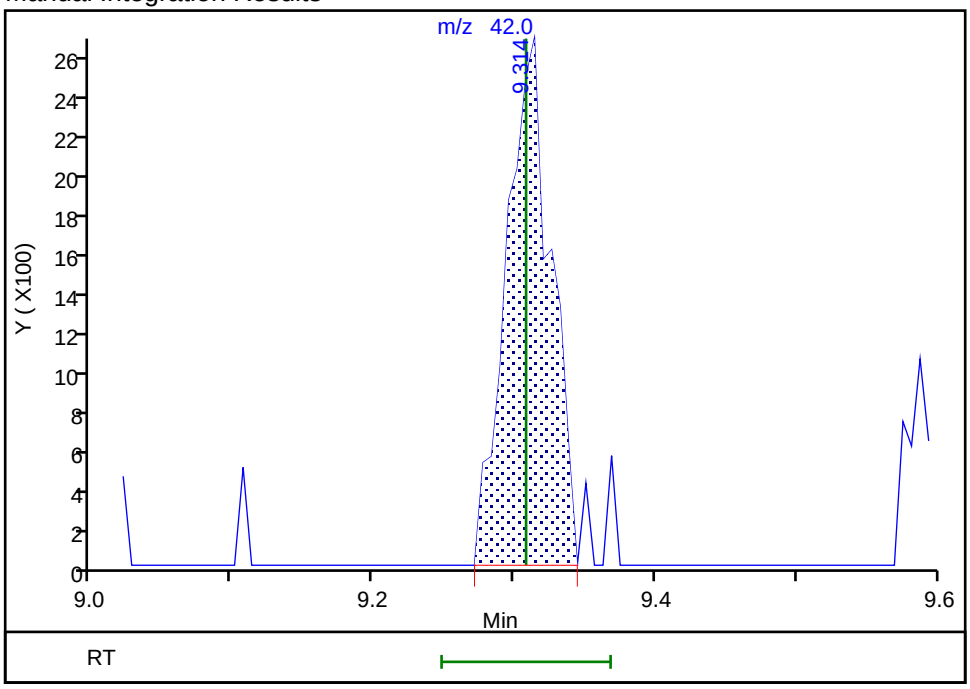
Not Detected
Expected RT: 9.31

Processing Integration Results



Manual Integration Results

RT: 9.31
Area: 5759
Amount: 0.946674
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

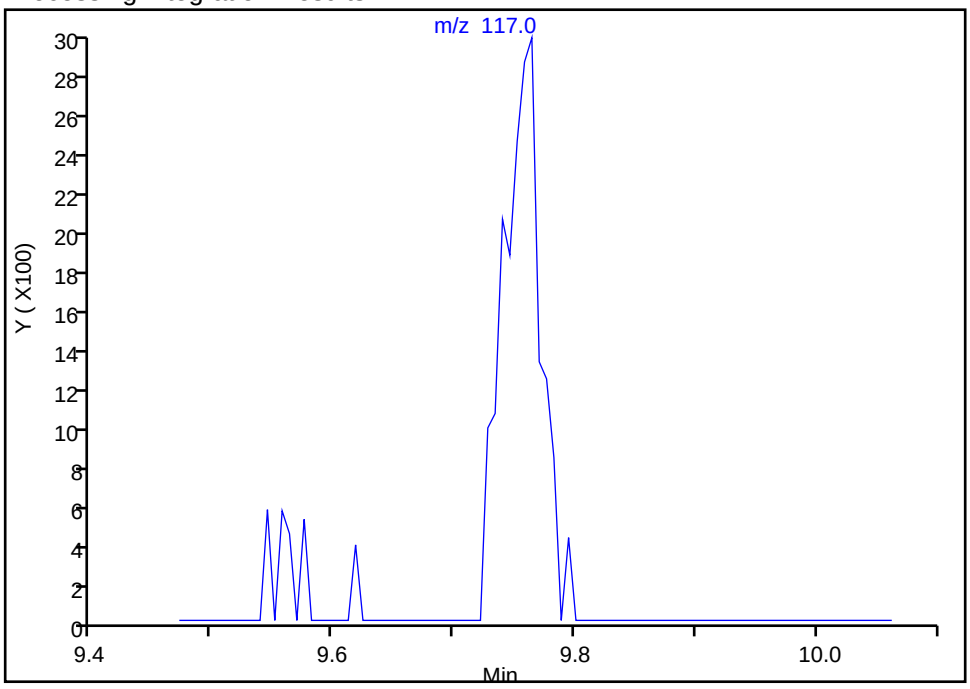
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

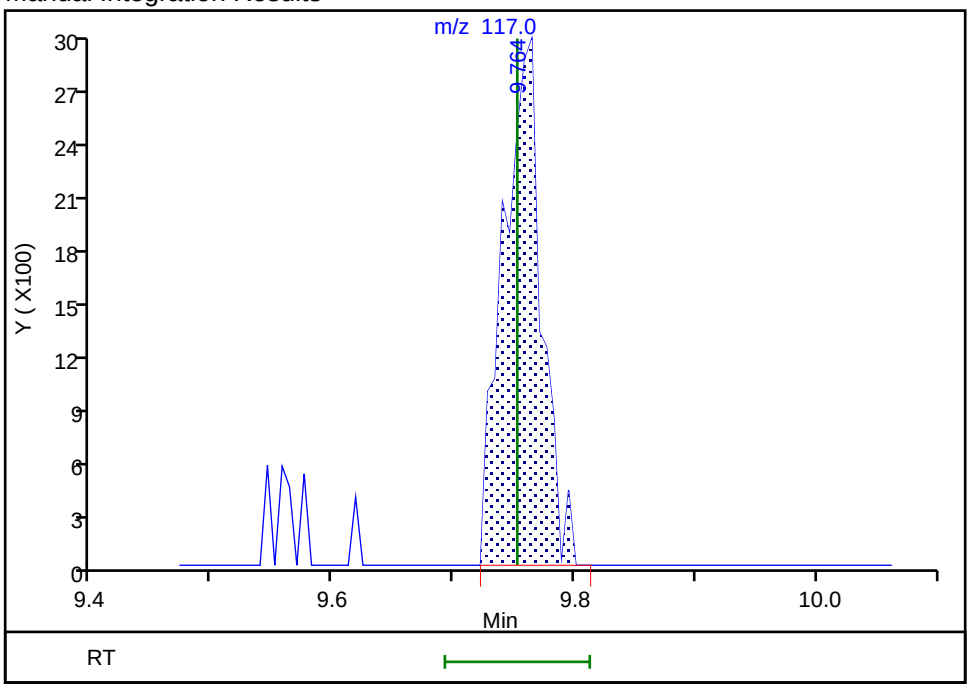
Not Detected
Expected RT: 9.75

Processing Integration Results



Manual Integration Results

RT: 9.76
Area: 6590
Amount: 0.413336
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

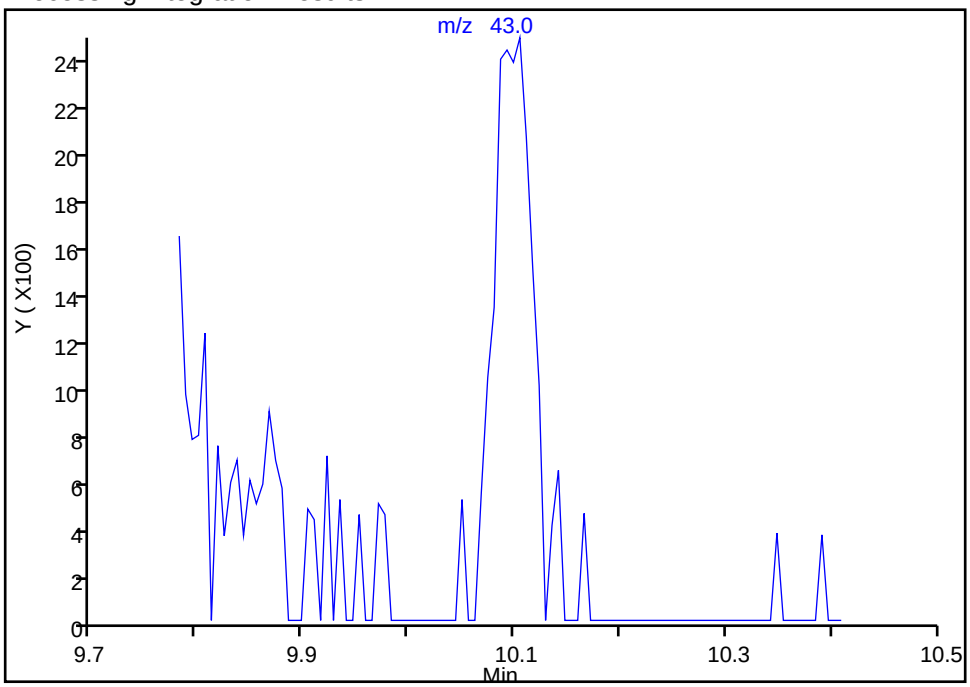
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

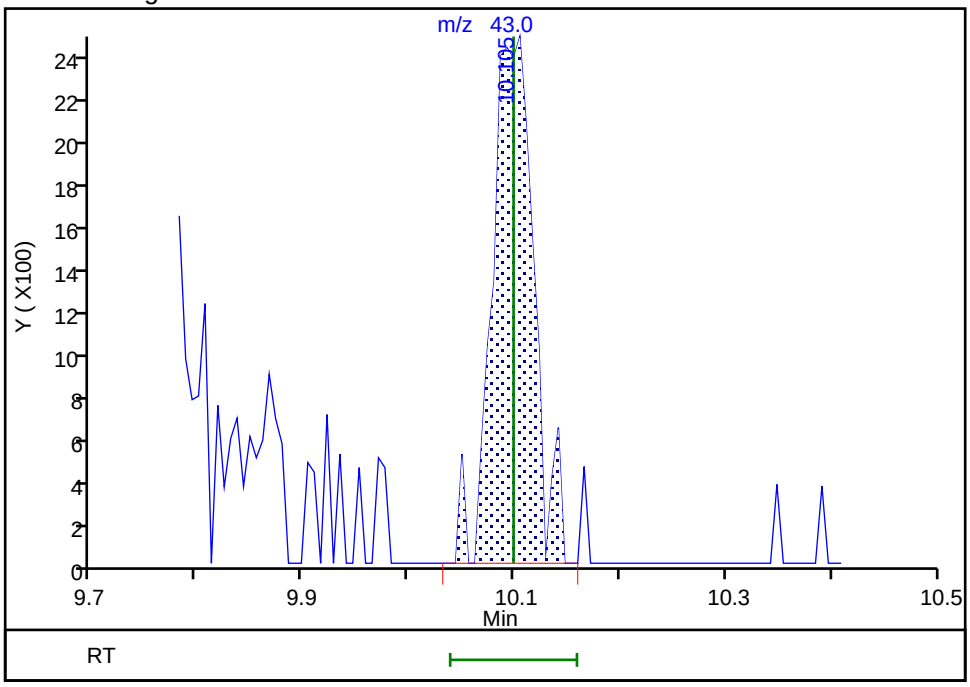
Not Detected
Expected RT: 10.10

Processing Integration Results



Manual Integration Results

RT: 10.10
Area: 6637
Amount: 0.487793
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

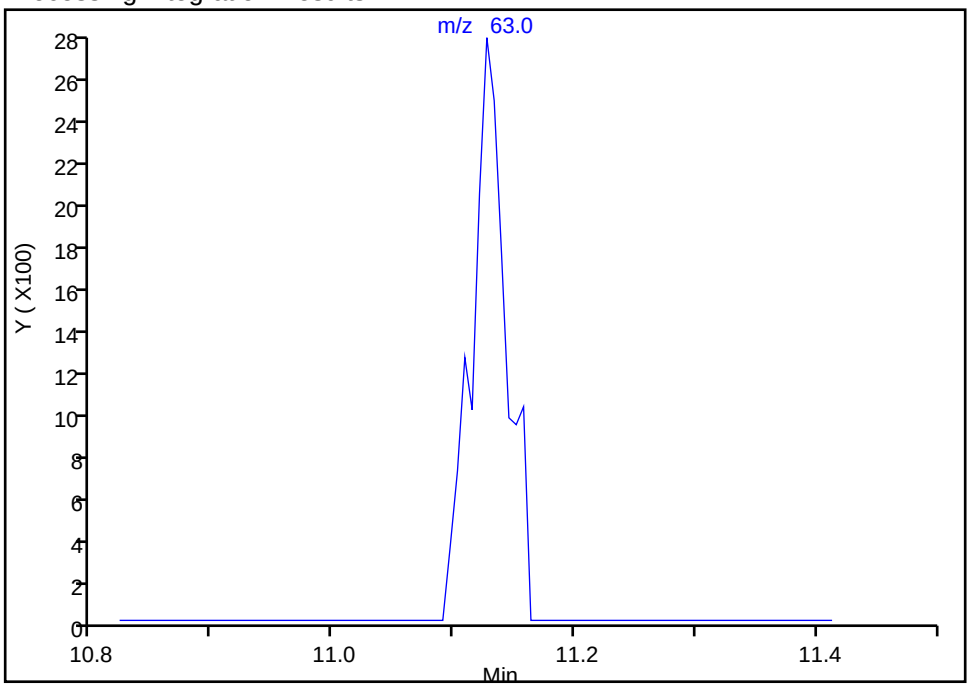
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

63 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

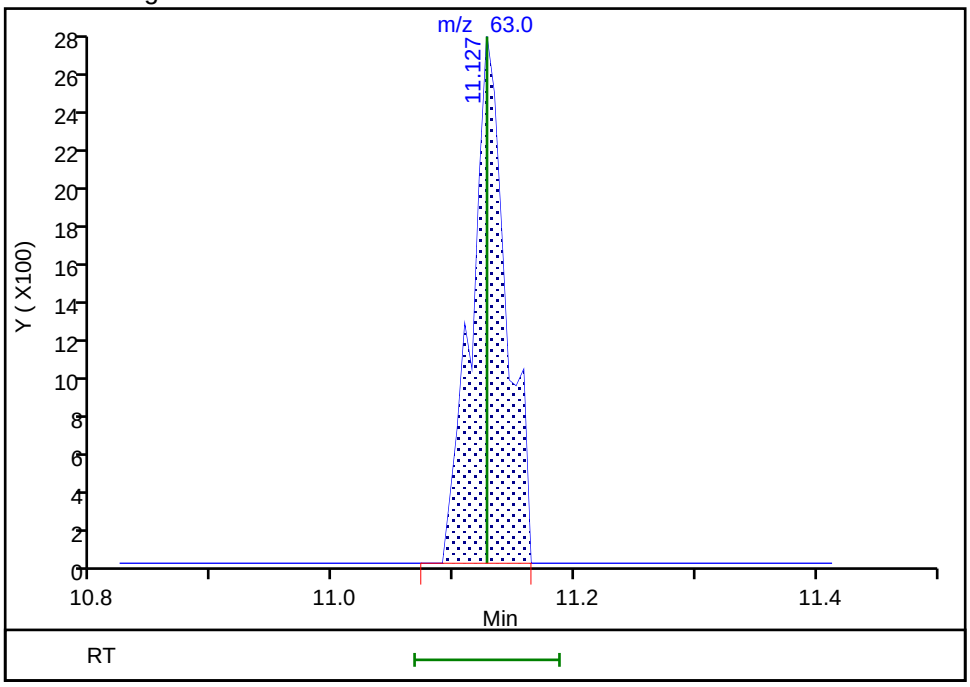
Not Detected
Expected RT: 11.13

Processing Integration Results



Manual Integration Results

RT: 11.13
Area: 5599
Amount: 0.435991
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

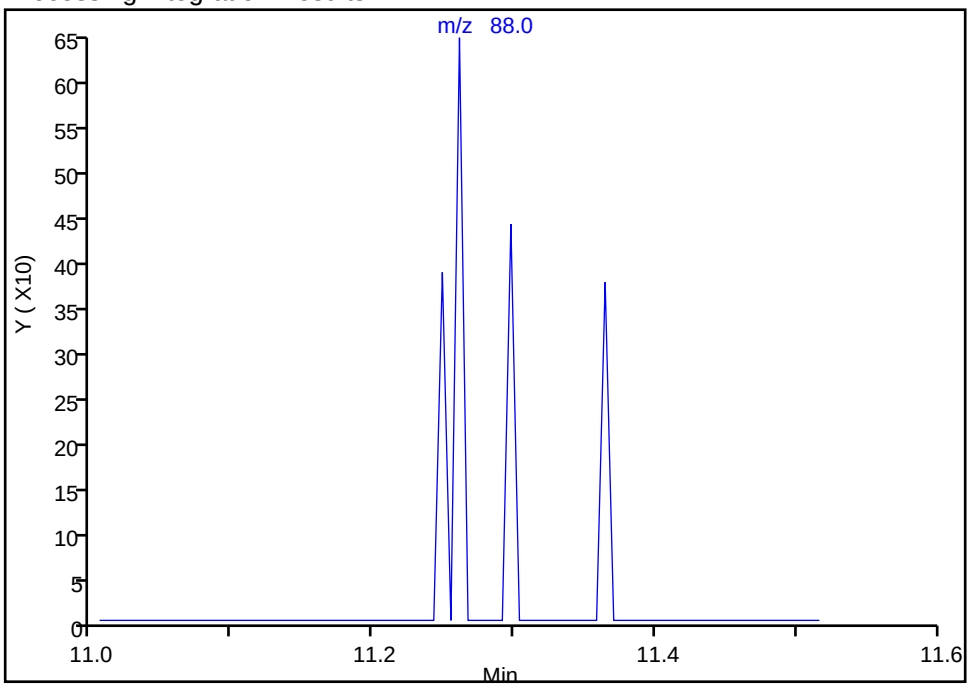
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

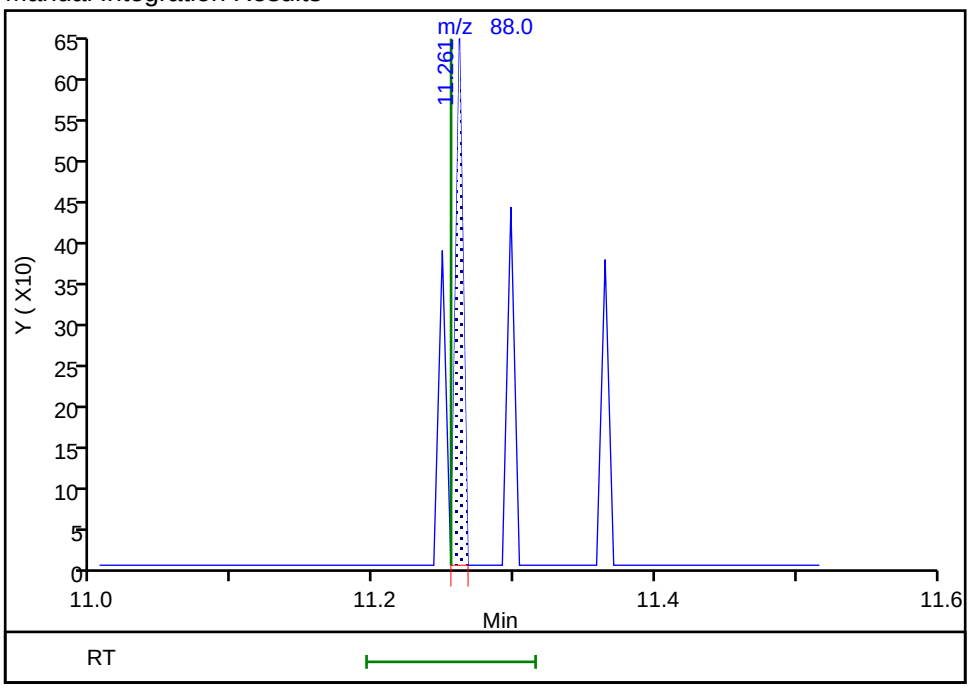
Not Detected
Expected RT: 11.25

Processing Integration Results



Manual Integration Results

RT: 11.26
Area: 234
Amount: 12.000432
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:37:26
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

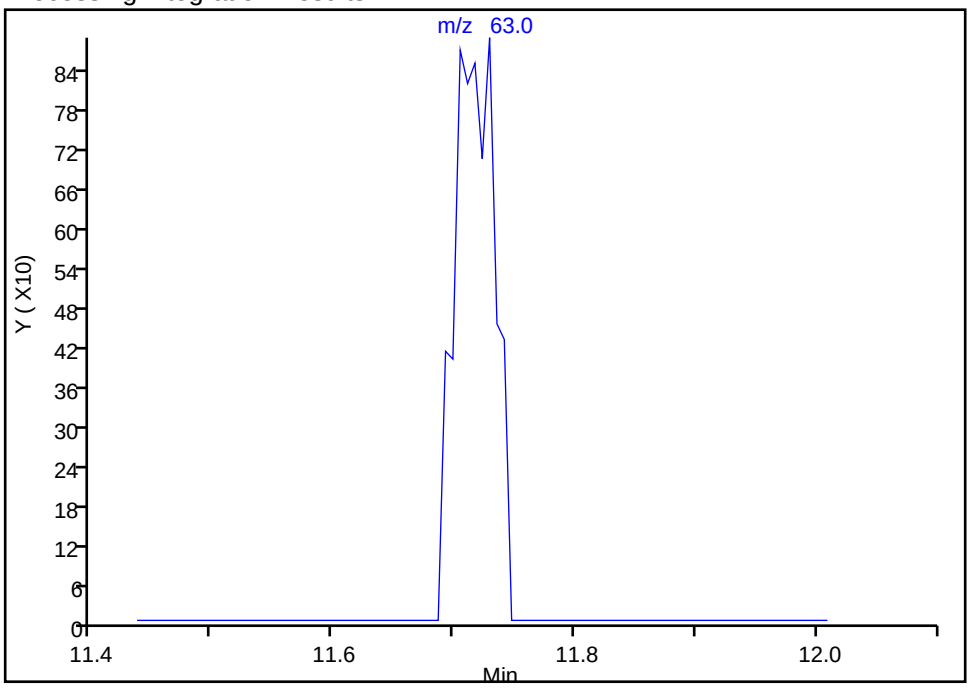
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

71 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

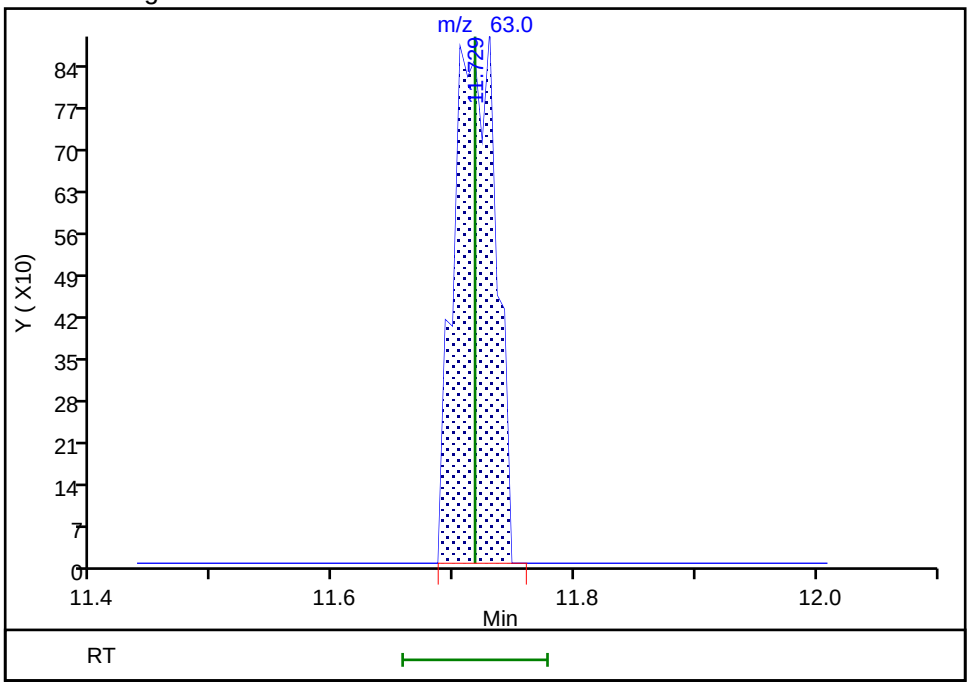
Not Detected
Expected RT: 11.72

Processing Integration Results



Manual Integration Results

RT: 11.73
Area: 2128
Amount: 0.389569
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

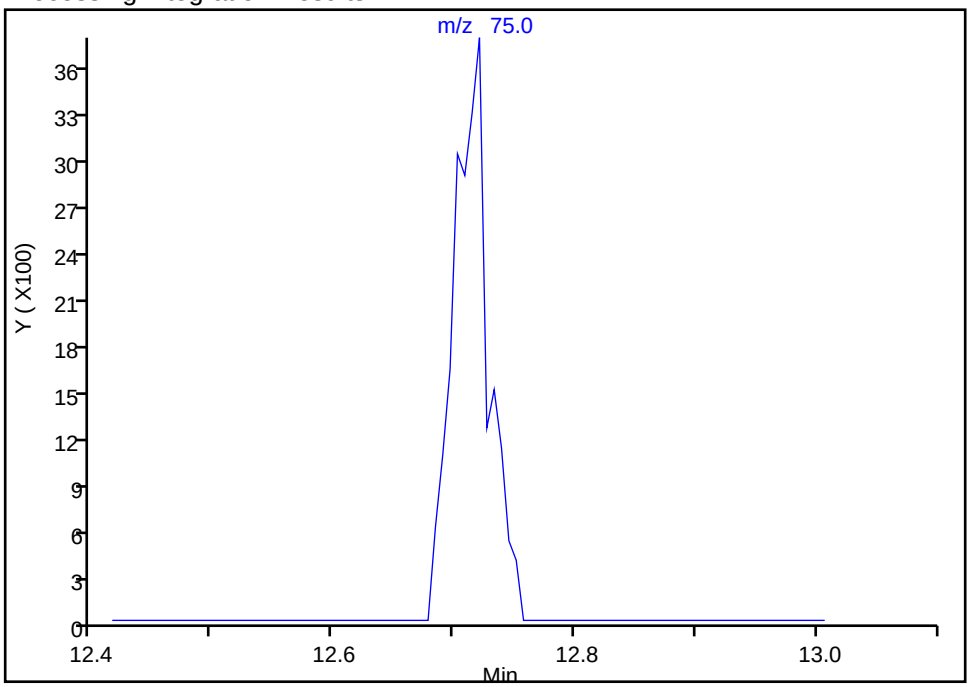
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

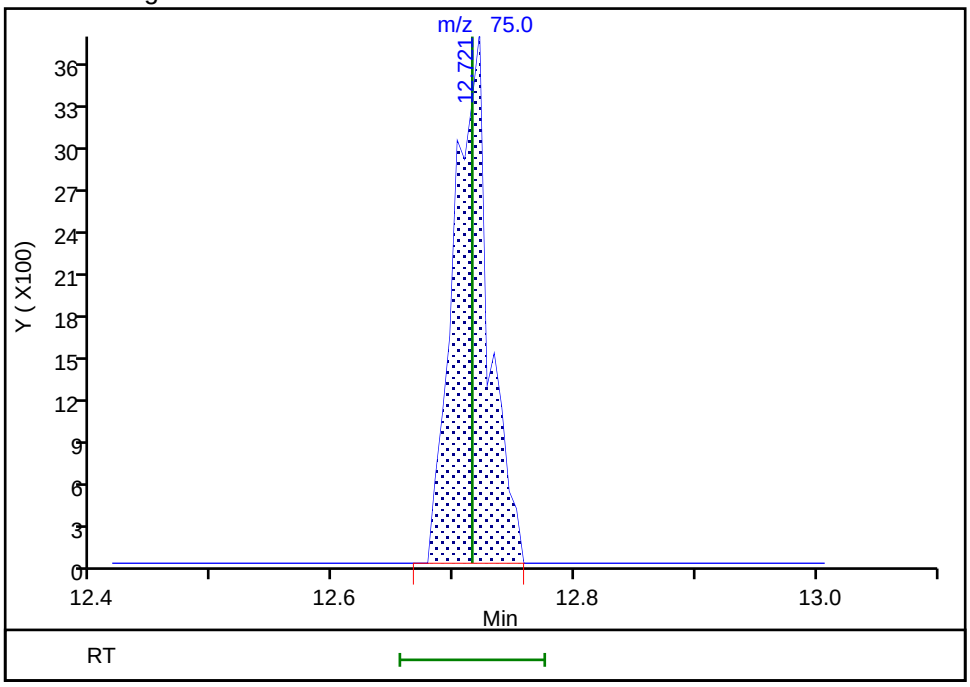
Not Detected
Expected RT: 12.71

Processing Integration Results



Manual Integration Results

RT: 12.72
Area: 7725
Amount: 0.450761
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:41:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

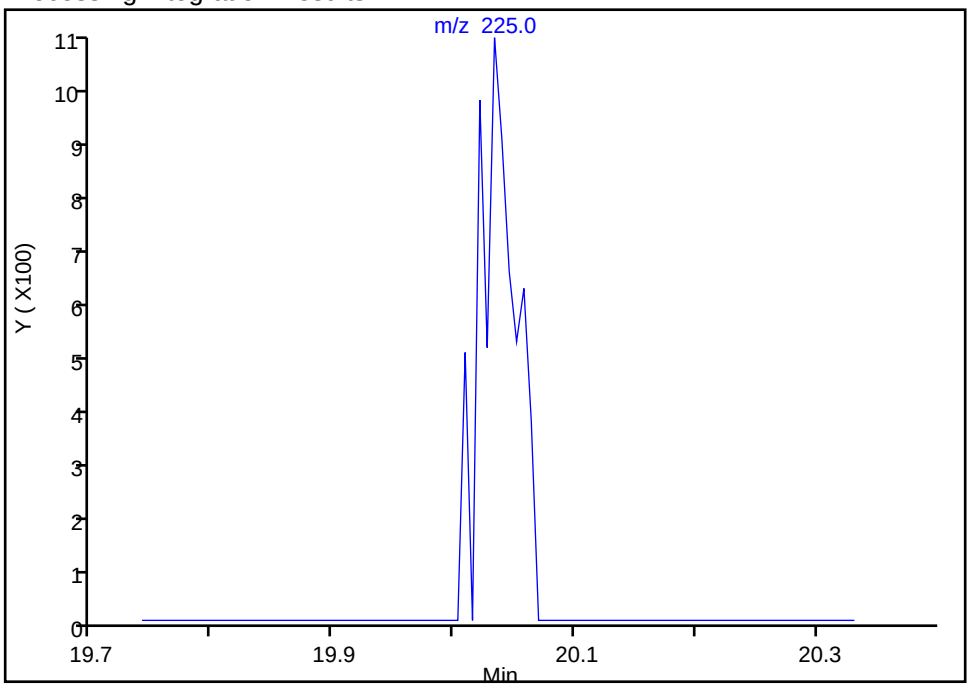
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35500.D
Injection Date: 27-Aug-2018 15:51:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

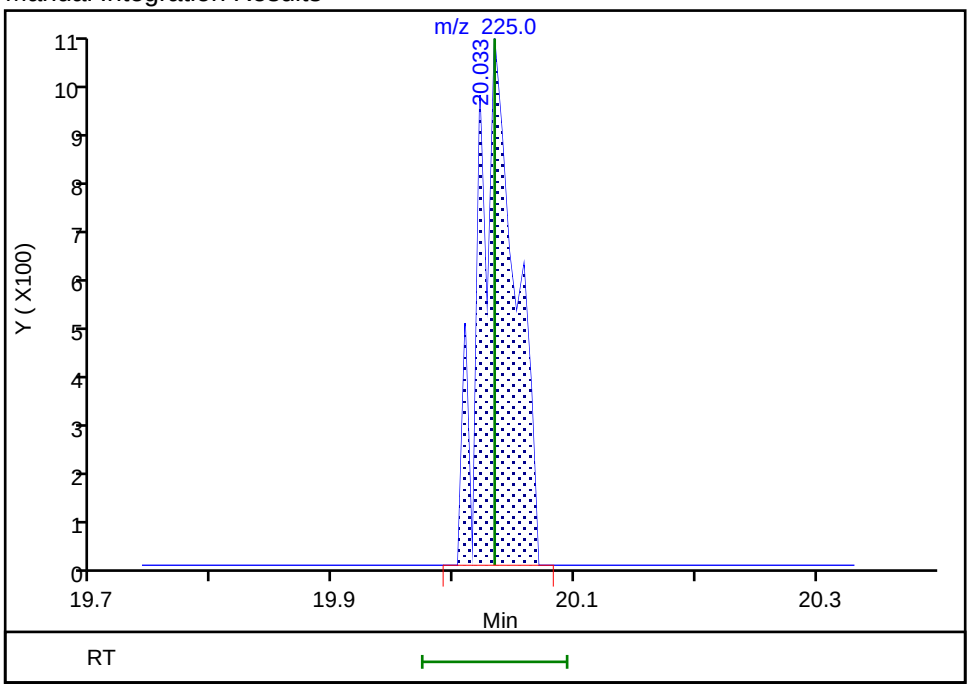
Not Detected
Expected RT: 20.03

Processing Integration Results



Manual Integration Results

RT: 20.03
Area: 2228
Amount: 0.476304
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:42:11
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Aug-2018 16:19:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0074204-007
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:15 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:38:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	97	185853	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	88	379559	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	97	381470	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	92	242846	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.996	9.996	0.000	0	166634	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	95	852721	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.793	15.793	0.000	89	280962	25.0	24.4	
10 Dichlorodifluoromethane	85	4.253	4.247	0.006	97	13285	1.00	0.8934	
11 Chloromethane	50	4.673	4.672	0.001	97	31964	1.00	1.09	
17 Vinyl chloride	62	4.861	4.855	0.006	96	20489	1.00	1.05	
144 Butadiene	54	4.892	4.898	-0.006	96	20956	1.00	1.05	
12 Bromomethane	94	5.482	5.482	0.000	57	12220	1.00	1.12	M
13 Chloroethane	64	5.609	5.615	-0.006	91	10348	1.00	1.01	M
19 Dichlorofluoromethane	67	5.901	5.895	0.006	96	24236	1.00	0.9621	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	96	18504	1.00	0.9471	
20 Ethyl ether	59	6.315	6.321	-0.006	93	11560	1.00	0.9389	
22 Acrolein	56	6.619	6.619	0.000	93	9697	5.00	4.63	
16 1,1,2-Trichloro-1,2,2-trif	101	6.638	6.637	0.001	67	7427	1.00	0.7906	
25 1,1-Dichloroethene	96	6.723	6.729	-0.006	89	9512	1.00	0.9654	
24 Acetone	43	6.814	6.808	0.006	96	27056	5.00	4.92	
18 Iodomethane	142	7.009	7.021	-0.012	22	16883	1.00	0.8835	a
27 Carbon disulfide	76	7.130	7.124	0.006	100	31765	1.00	1.02	M
30 Methyl acetate	43	7.179	7.173	0.006	99	28250	2.00	1.72	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	87	23798	1.00	0.8985	
31 Methylene Chloride	84	7.392	7.398	-0.006	93	17194	1.00	1.03	
33 2-Methyl-2-propanol	59	7.422	7.416	0.006	82	18542	10.0	9.23	
32 Methyl tert-butyl ether	73	7.611	7.605	0.006	96	33520	1.00	0.9620	
35 trans-1,2-Dichloroethene	96	7.702	7.696	0.006	90	11033	1.00	1.00	
34 Acrylonitrile	53	7.739	7.733	0.007	98	67480	10.0	10.0	
36 Hexane	57	7.897	7.897	0.000	95	15656	1.00	0.9462	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	96	61767	2.00	1.98	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	95	21796	1.00	0.9067	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	97	42942	5.00	4.66	
45 2,2-Dichloropropane	77	8.937	8.949	-0.012	59	12958	1.00	0.9087	
43 cis-1,2-Dichloroethene	96	8.968	8.961	0.007	85	12774	1.00	1.00	
50 Chlorobromomethane	128	9.290	9.296	-0.006	86	5965	1.00	0.9413	
51 Tetrahydrofuran	42	9.302	9.308	-0.006	86	13942	2.00	2.26	
49 Chloroform	83	9.320	9.326	-0.006	93	20508	1.00	1.00	
52 1,1,1-Trichloroethane	97	9.558	9.558	0.000	95	14941	1.00	0.8626	
54 Cyclohexane	56	9.606	9.600	0.006	94	16751	1.00	0.8249	
56 1,1-Dichloropropene	75	9.752	9.740	0.012	75	12161	1.00	0.8261	
53 Isobutyl alcohol	43	9.752	9.752	0.000	75	25089	25.0	23.9	
55 Carbon tetrachloride	117	9.746	9.752	-0.006	84	12734	1.00	0.7866	
57 Benzene	78	10.032	10.038	-0.006	91	41103	1.00	0.9484	
60 1,2-Dichloroethane	62	10.087	10.093	-0.006	96	21472	1.00	0.9843	
59 n-Heptane	43	10.099	10.099	0.000	72	12924	1.00	0.9355	
62 Trichloroethene	95	10.793	10.793	0.000	91	12338	1.00	1.06	
64 Methylcyclohexane	83	10.993	10.987	0.006	94	11219	1.00	0.8514	
63 1,2-Dichloropropane	63	11.127	11.127	0.000	89	12990	1.00	1.00	
68 1,4-Dioxane	88	11.261	11.255	0.006	1	612	20.0	15.3	M
69 Dibromomethane	93	11.340	11.334	0.006	90	8365	1.00	1.04	
70 Dichlorobromomethane	83	11.474	11.468	0.006	95	14381	1.00	0.9193	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	84	4447	1.00	0.8018	a
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	86	17114	1.00	0.9544	
75 4-Methyl-2-pentanone (MIBK	43	12.101	12.101	0.001	98	94920	5.00	4.73	
76 Toluene	92	12.423	12.423	0.000	95	26088	1.00	0.9598	
77 Ethyl methacrylate	69	12.648	12.642	0.006	85	13258	1.00	0.9037	
78 trans-1,3-Dichloropropene	75	12.715	12.715	0.000	90	15227	1.00	0.8790	
79 1,1,2-Trichloroethane	83	12.989	13.001	-0.012	92	8720	1.00	1.02	a
80 Tetrachloroethene	166	13.147	13.147	0.000	94	11038	1.00	0.9469	
83 2-Hexanone	43	13.190	13.189	0.001	97	66806	5.00	4.59	
82 1,3-Dichloropropane	76	13.238	13.238	0.000	93	18046	1.00	0.9883	
81 Chlorodibromomethane	129	13.573	13.573	0.000	87	11334	1.00	0.8651	
85 Ethylene Dibromide	107	13.767	13.773	-0.006	94	10435	1.00	0.9232	
87 Chlorobenzene	112	14.333	14.333	0.000	96	29843	1.00	0.9423	
89 Ethylbenzene	91	14.382	14.376	0.006	98	47084	1.00	0.9146	
88 1,1,1,2-Tetrachloroethane	131	14.418	14.412	0.006	89	10498	1.00	0.8639	
90 m-Xylene & p-Xylene	106	14.510	14.510	0.000	0	18104	1.00	0.9207	
93 o-Xylene	106	15.063	15.063	0.000	96	18530	1.00	0.9482	
94 Styrene	104	15.088	15.088	0.000	97	28811	1.00	0.8441	
92 Bromoform	173	15.471	15.477	-0.006	92	6882	1.00	0.8059	
95 Isopropylbenzene	105	15.489	15.489	0.000	97	42899	1.00	0.9152	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	93	13902	1.00	1.04	
98 trans-1,4-Dichloro-2-buten	53	16.000	16.012	-0.012	42	4075	1.00	0.7620	
99 N-Propylbenzene	91	16.018	16.018	0.000	97	50833	1.00	0.9356	
100 Bromobenzene	156	16.031	16.037	-0.006	97	13596	1.00	1.00	
101 1,2,3-Trichloropropane	110	16.067	16.061	0.006	82	4750	1.00	1.06	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	93	37528	1.00	0.9412	
103 2-Chlorotoluene	126	16.225	16.225	0.000	94	10368	1.00	0.8477	
105 4-Chlorotoluene	126	16.359	16.353	0.006	98	10884	1.00	0.8801	
106 tert-Butylbenzene	134	16.651	16.645	0.006	95	7689	1.00	0.9263	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	96	38722	1.00	0.9194	

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	16.913	16.913	0.000	96	40662	1.00	0.9102	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	97	37445	1.00	0.9393	
110 1,3-Dichlorobenzene	146	17.174	17.180	-0.006	95	24160	1.00	0.9671	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	90	25120	1.00	0.9511	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	30503	1.00	0.9235	
116 1,2-Dichlorobenzene	146	17.777	17.776	0.001	95	24417	1.00	0.9868	
117 1,2-Dibromo-3-Chloropropan	75	18.823	18.823	0.000	73	4523	1.00	1.26	
119 1,2,4-Trichlorobenzene	180	19.912	19.912	0.000	95	13938	1.00	0.8982	
120 Hexachlorobutadiene	225	20.027	20.033	-0.006	73	3068	1.00	0.6565	
121 Naphthalene	128	20.356	20.356	0.000	98	43991	1.00	0.9355	
122 1,2,3-Trichlorobenzene	180	20.721	20.733	-0.012	93	14240	1.00	0.9522	
S 125 Total BTEX	1				0			4.69	
S 126 Xylenes, Total	1				0			1.87	
S 123 1,2-Dichloroethene, Total	1				0			2.00	
S 124 1,3-Dichloropropene, Total	1				0			1.83	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00133	Amount Added:	1.00	Units: uL	
GAS CORP mix_00298	Amount Added:	1.00	Units: uL	
P 8260 IS_00326	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added:	1.25	Units: uL	Run Reagent

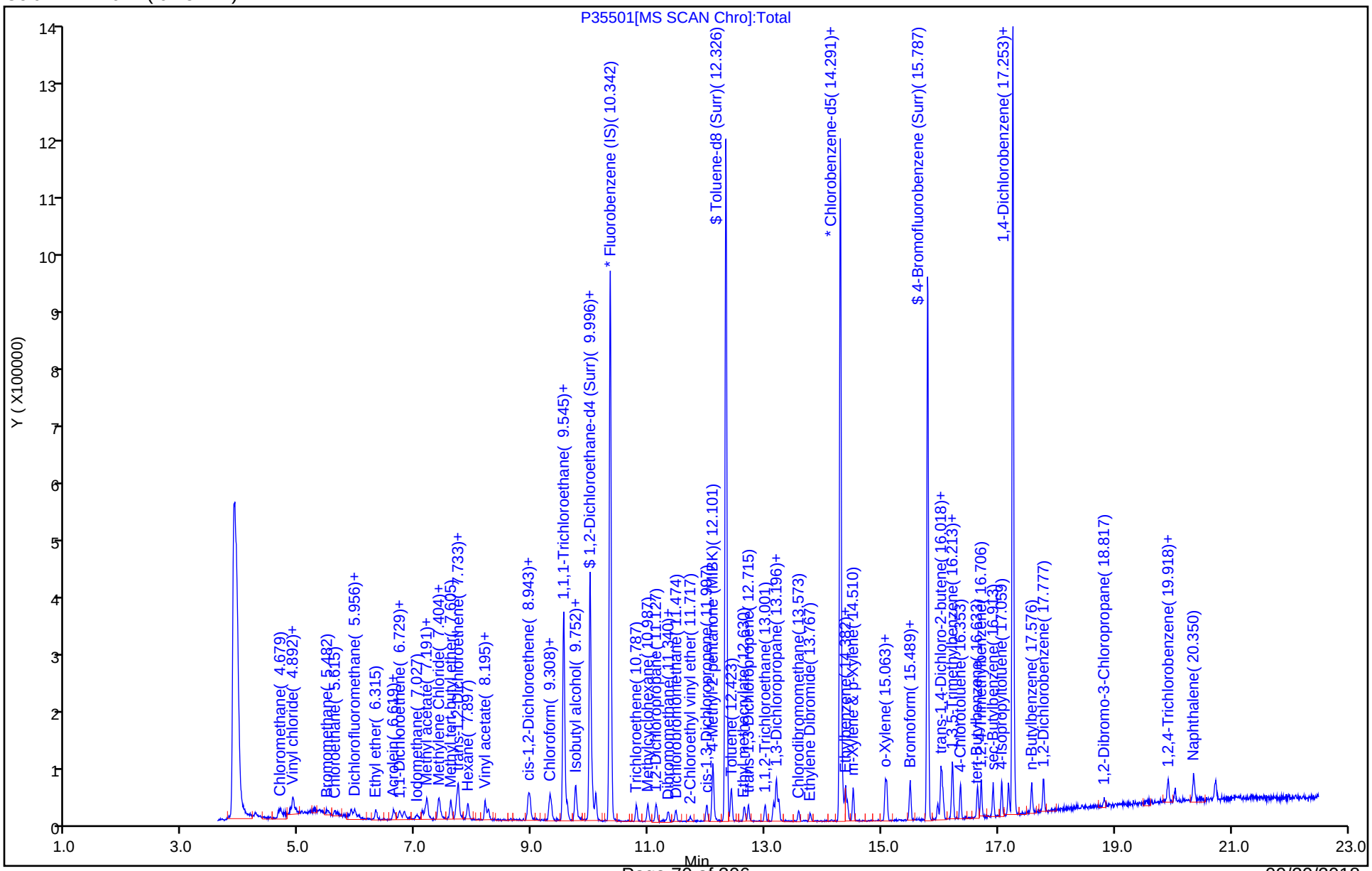
Report Date: 28-Aug-2018 09:52:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D

Injection Date:	27-Aug-2018 16:19:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

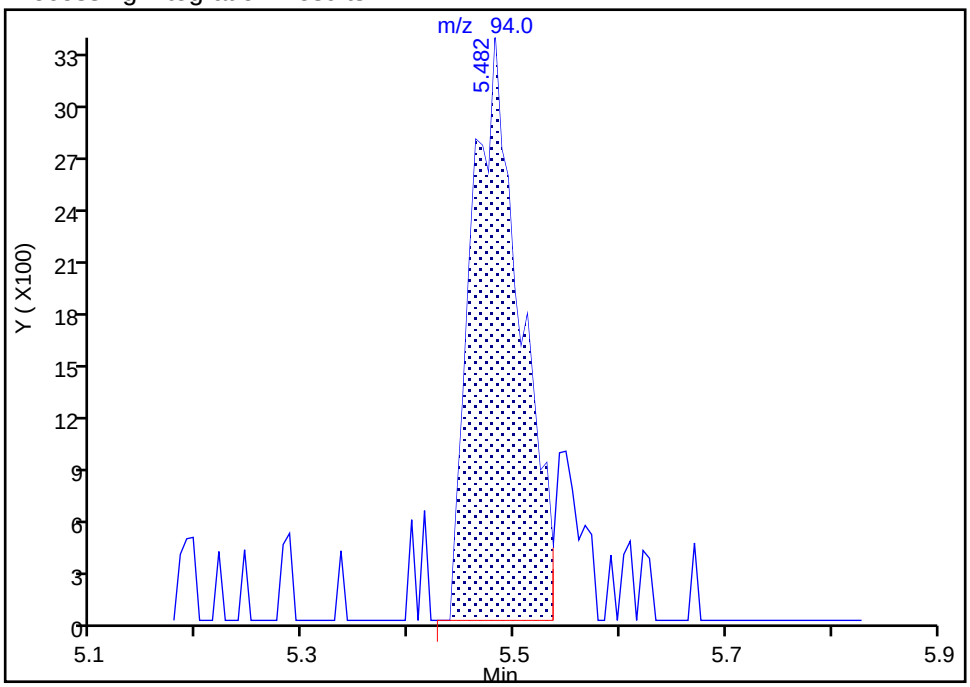
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

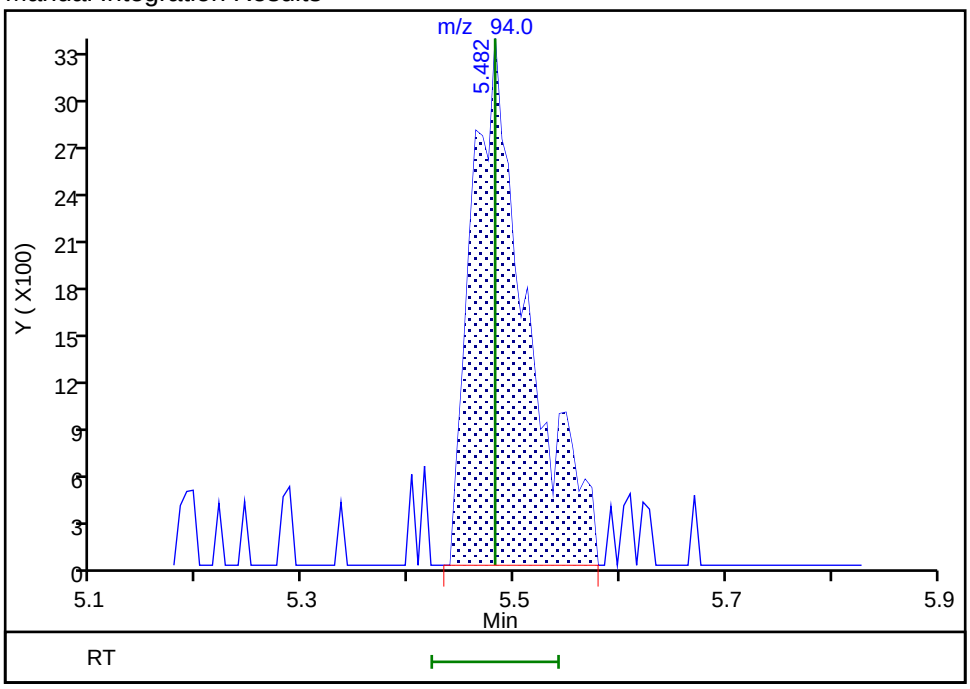
Processing Integration Results

RT: 5.48
Area: 10698
Amount: 0.996210
Amount Units: ug/L



Manual Integration Results

RT: 5.48
Area: 12220
Amount: 1.115357
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:42:48
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

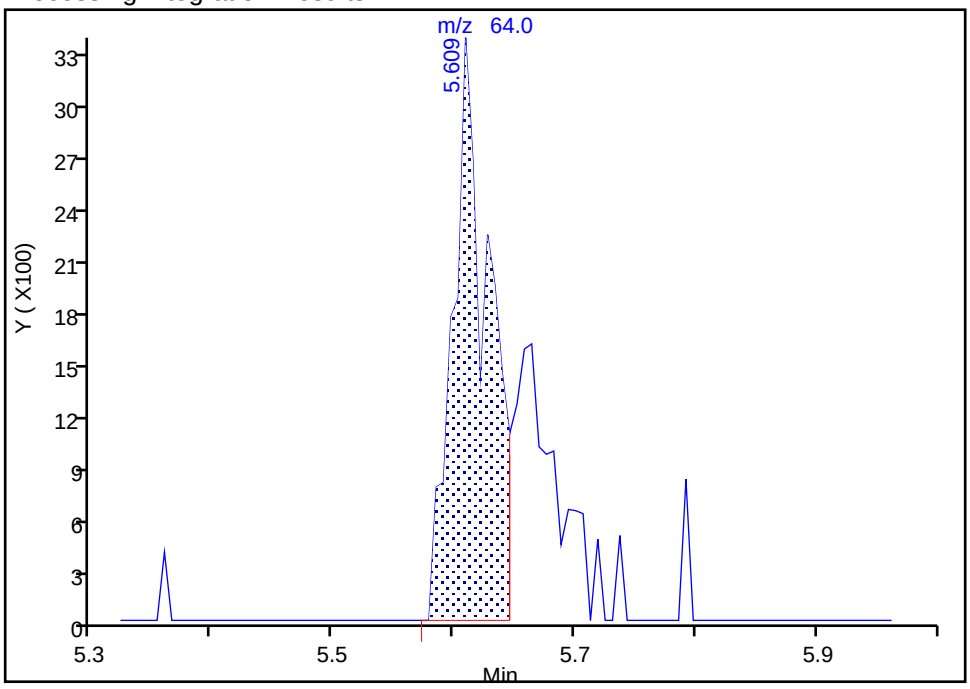
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloroethane, CAS: 75-00-3

Signal: 1

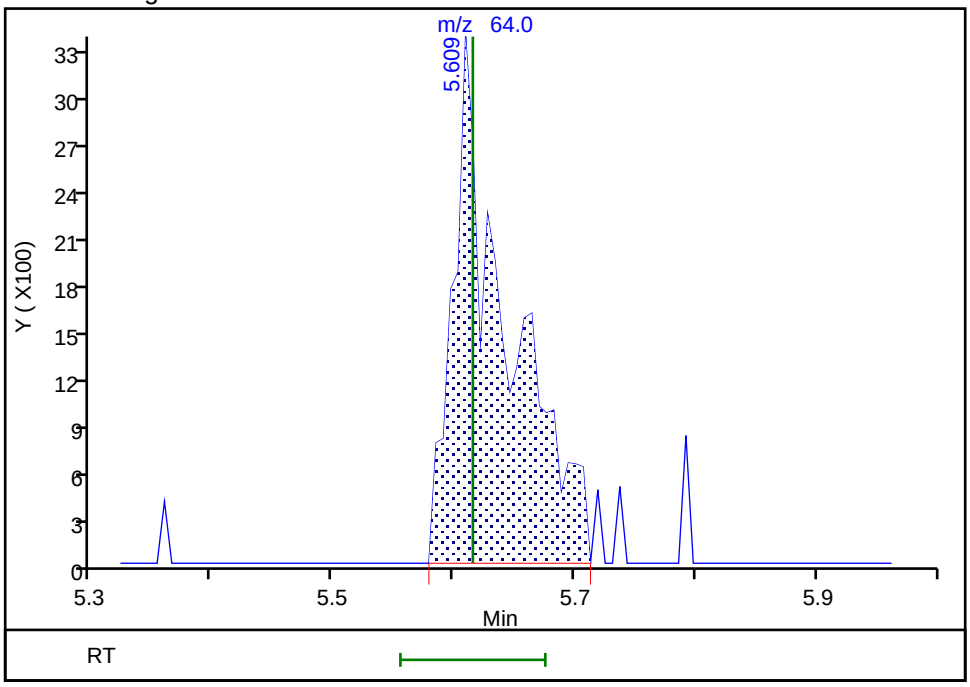
Processing Integration Results

RT: 5.61
Area: 6879
Amount: 0.703799
Amount Units: ug/L



Manual Integration Results

RT: 5.61
Area: 10348
Amount: 1.007627
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:43:06
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

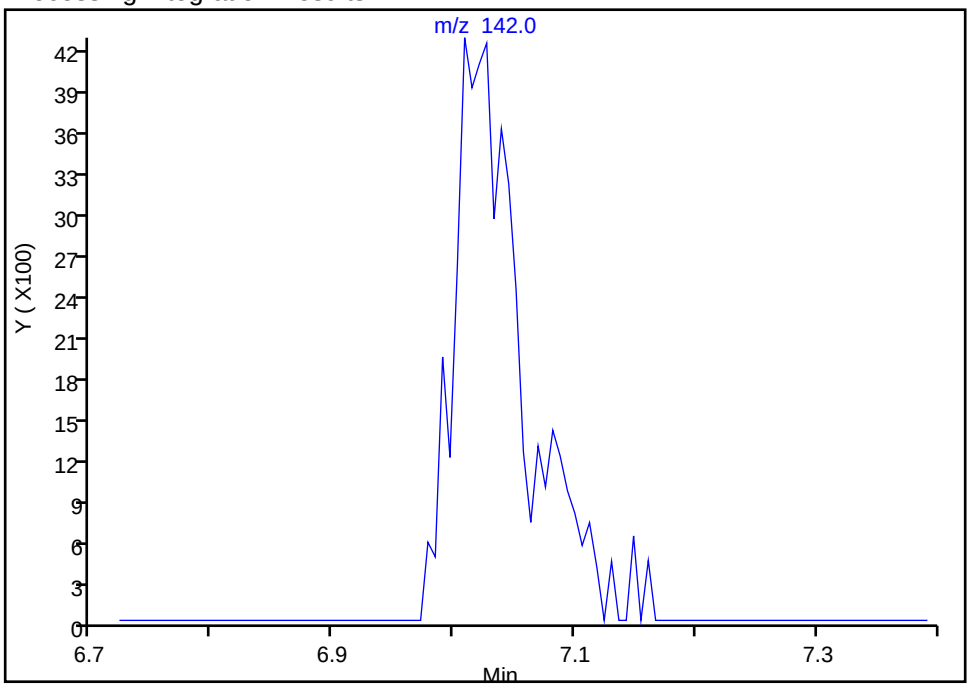
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Iodomethane, CAS: 74-88-4

Signal: 1

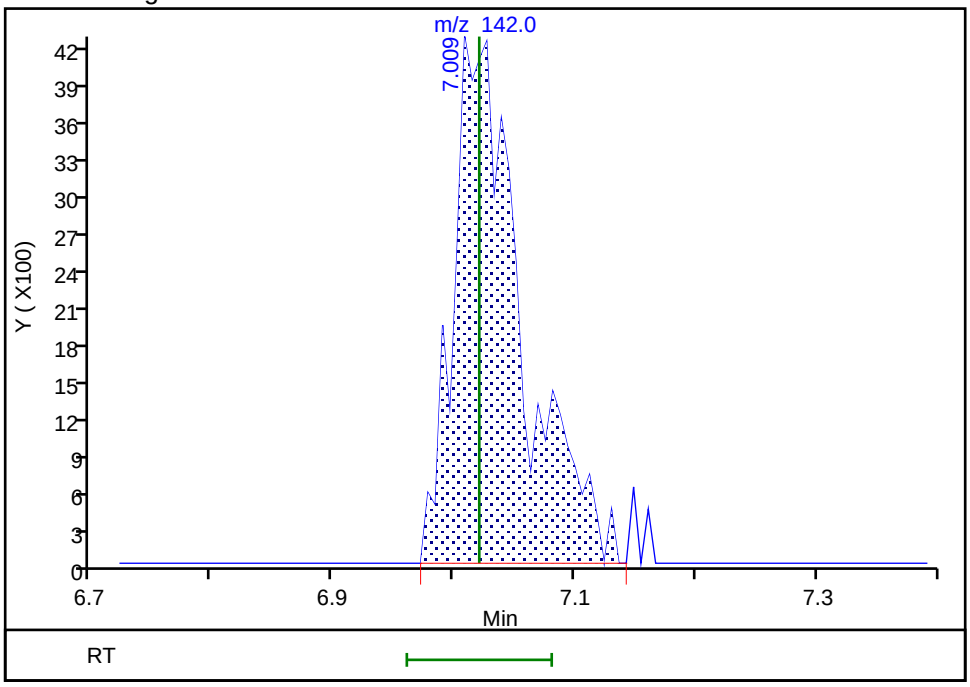
Not Detected
Expected RT: 7.02

Processing Integration Results



Manual Integration Results

RT: 7.01
Area: 16883
Amount: 0.883543
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:43:14
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

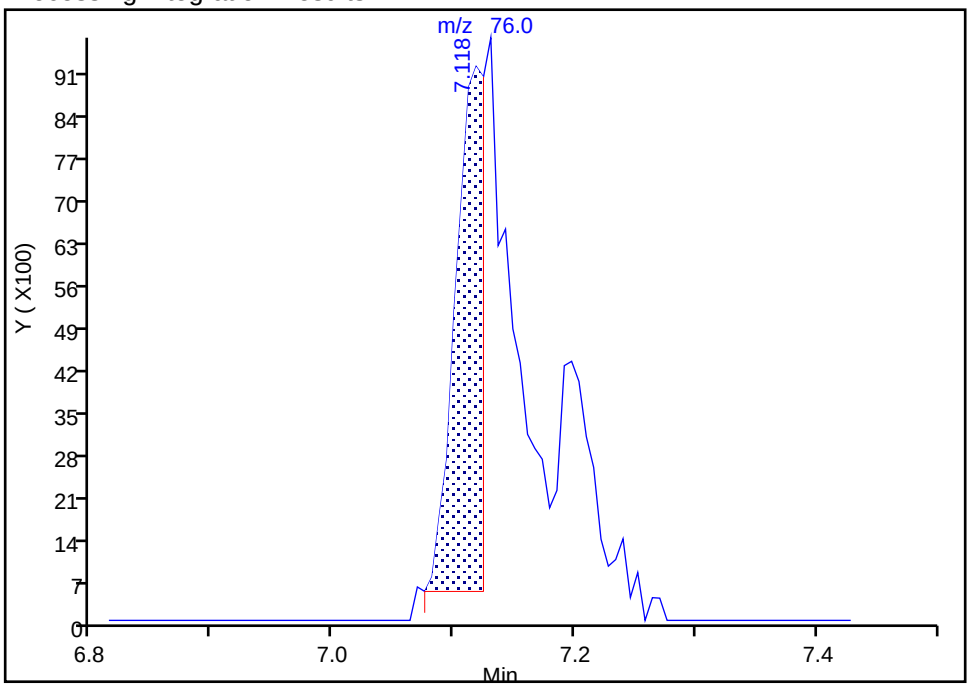
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

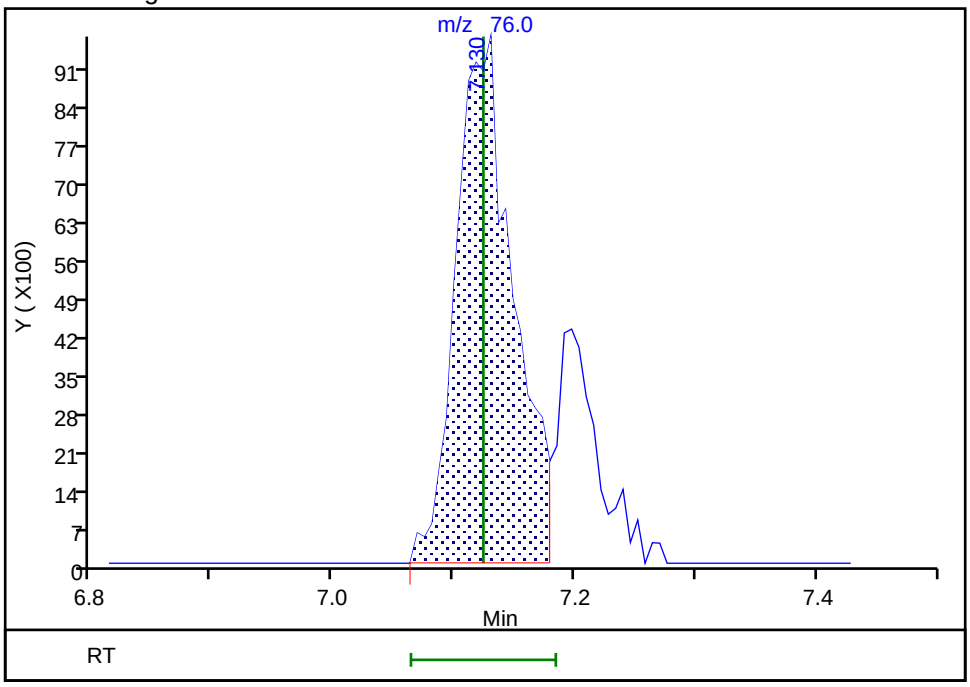
Processing Integration Results

RT: 7.12
Area: 14752
Amount: 0.644276
Amount Units: ug/L



Manual Integration Results

RT: 7.13
Area: 31765
Amount: 1.023918
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:43:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

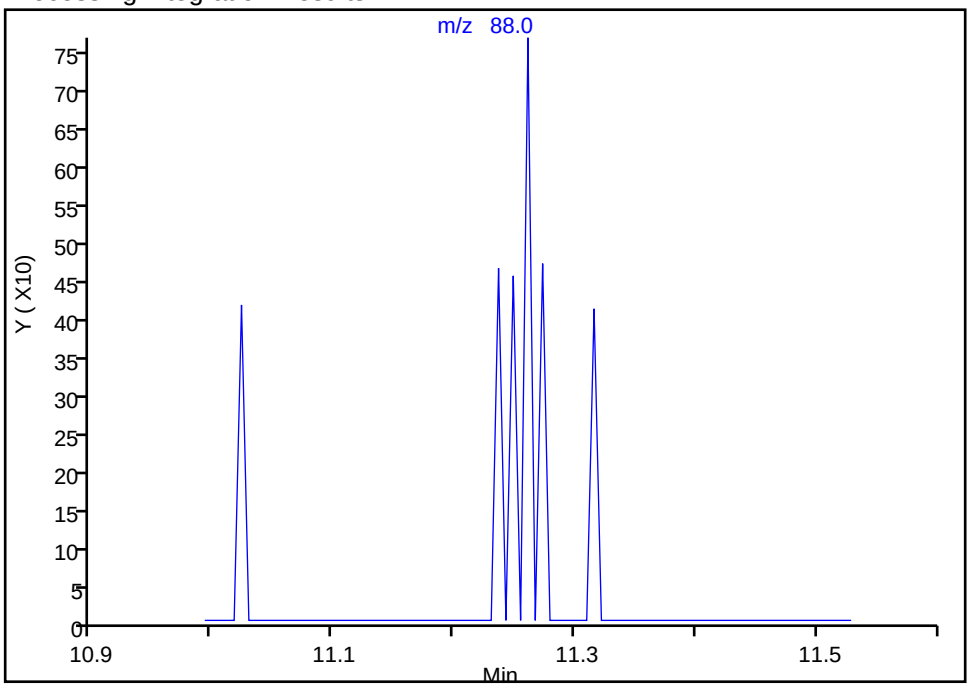
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

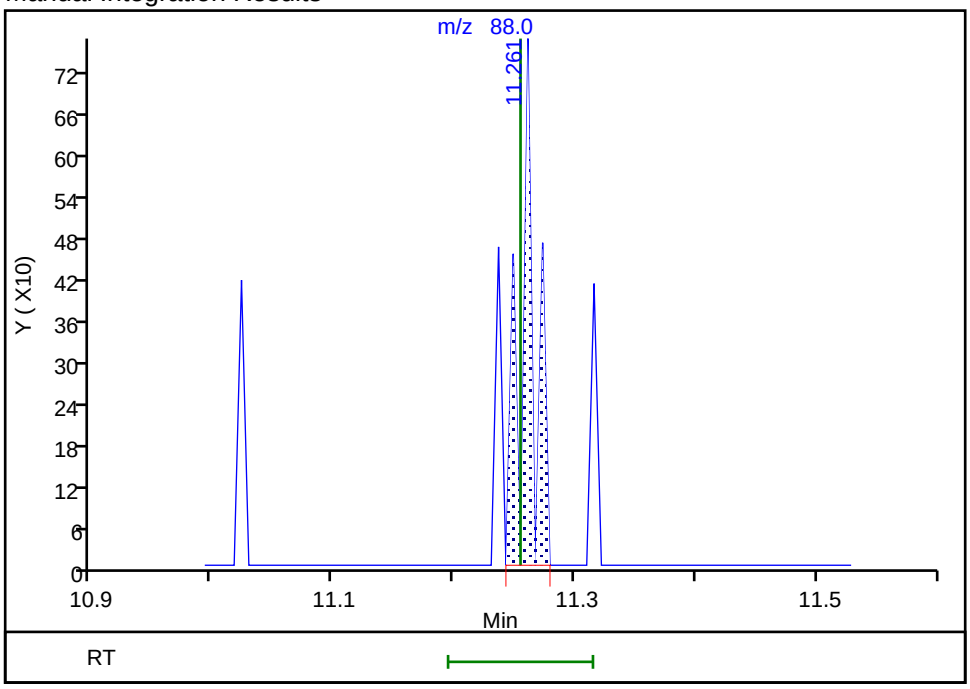
Not Detected
Expected RT: 11.25

Processing Integration Results



Manual Integration Results

RT: 11.26
Area: 612
Amount: 15.261010
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:37:59
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

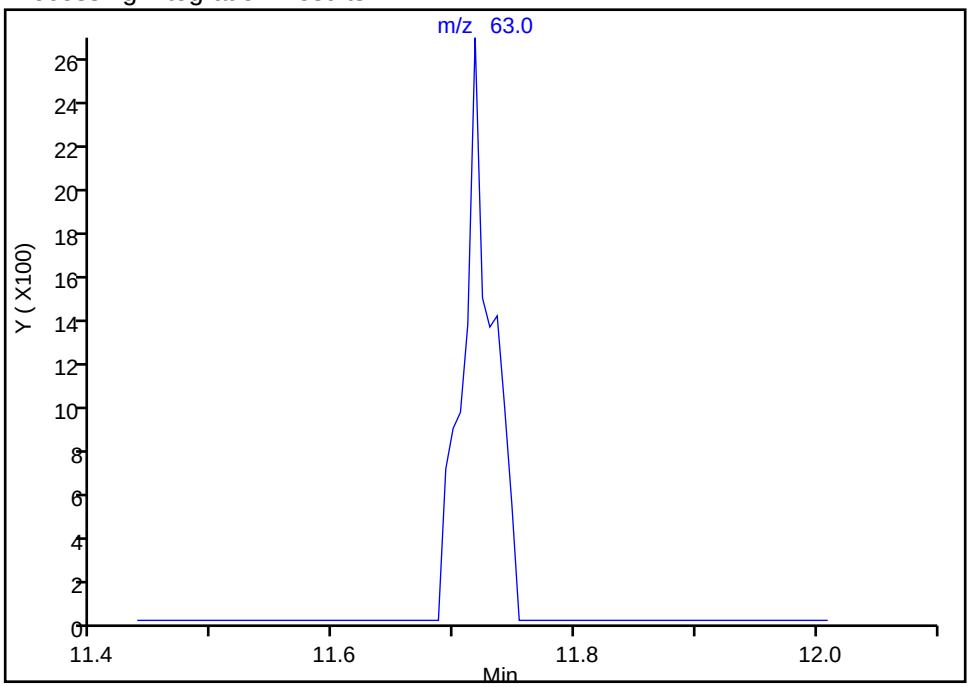
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

71 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

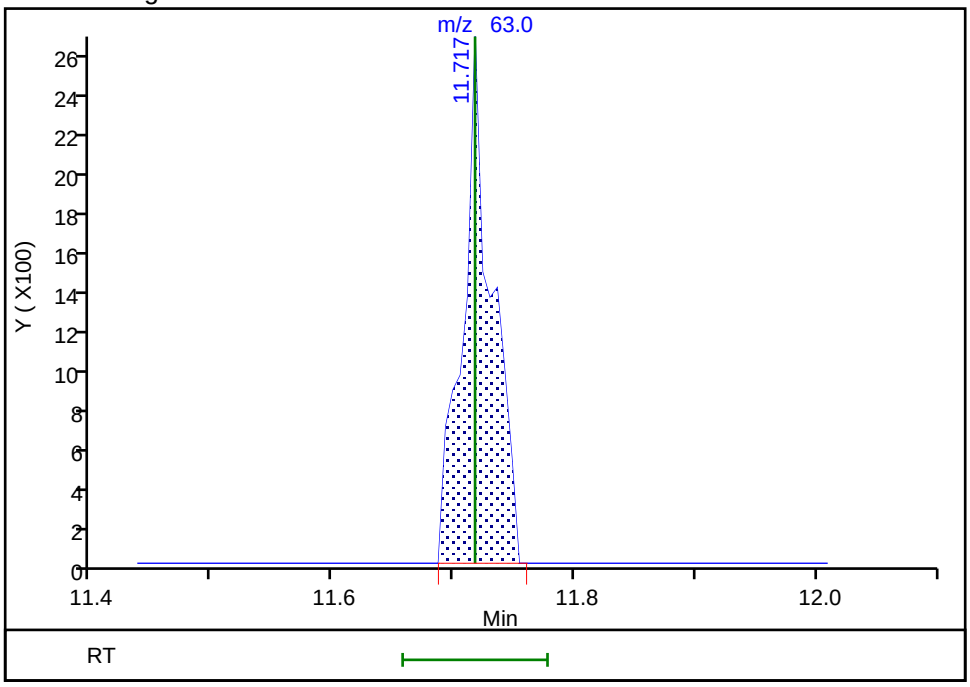
Not Detected
Expected RT: 11.72

Processing Integration Results



Manual Integration Results

RT: 11.72
Area: 4447
Amount: 0.801773
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:44:28
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

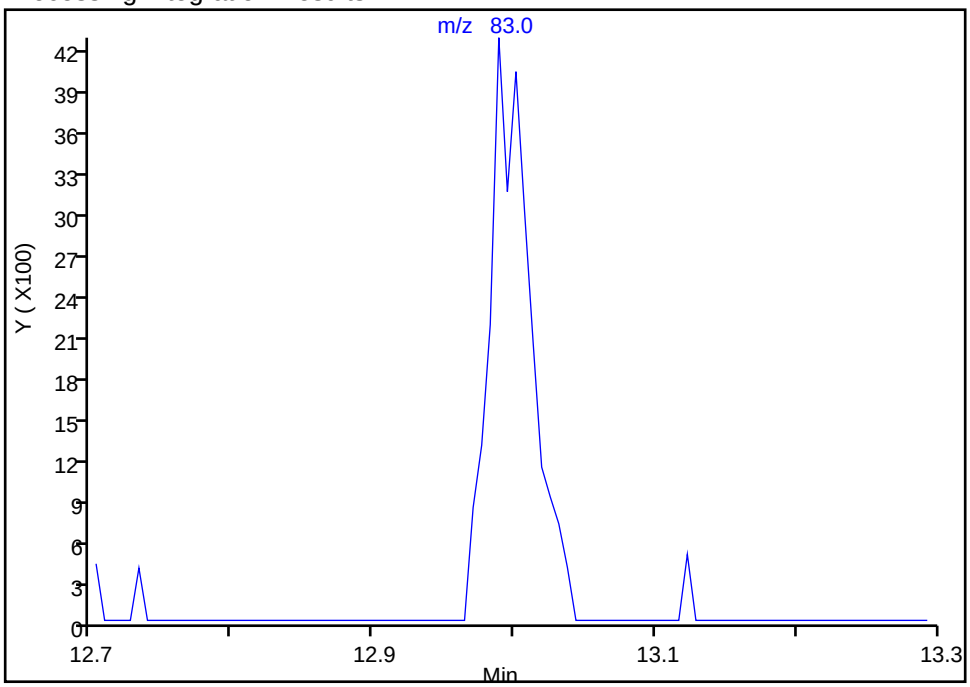
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35501.D
Injection Date: 27-Aug-2018 16:19:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

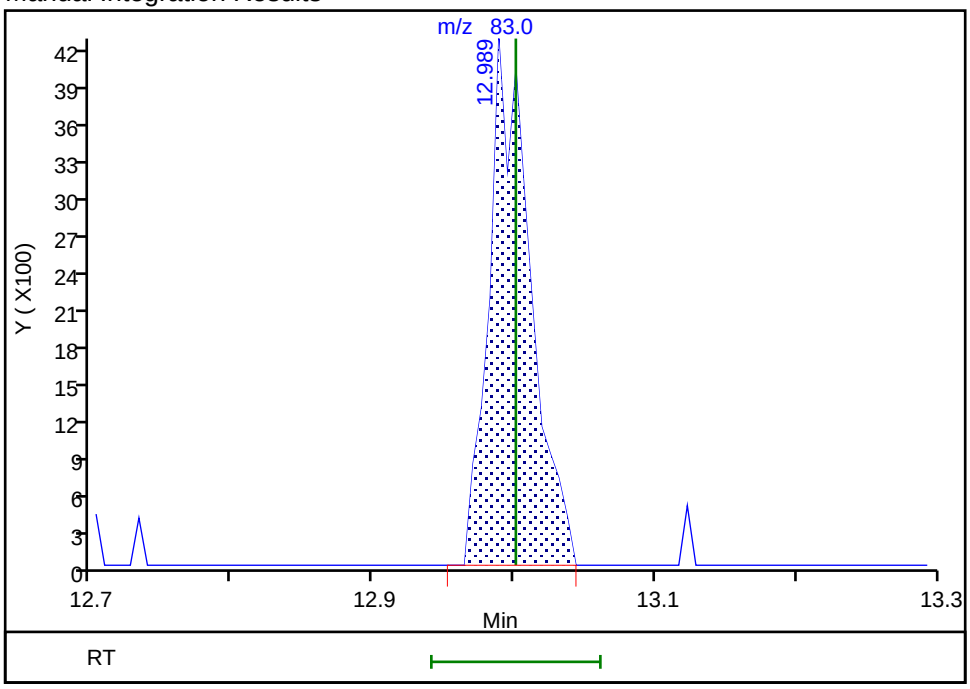
Not Detected
Expected RT: 13.00

Processing Integration Results



Manual Integration Results

RT: 12.99
Area: 8720
Amount: 1.022291
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:44:34
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35502.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Aug-2018 16:46:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0074204-008
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:21 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:45:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	98	189269	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	88	384889	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	96	391280	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	92	246796	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.996	9.996	0.000	0	172103	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	12.332	12.326	0.006	94	862538	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.793	15.793	0.000	90	283377	25.0	24.3	
10 Dichlorodifluoromethane	85	4.241	4.247	-0.007	97	80004	5.00	5.28	
11 Chloromethane	50	4.666	4.672	-0.006	99	154664	5.00	5.17	
17 Vinyl chloride	62	4.855	4.855	0.000	98	105596	5.00	5.33	
144 Butadiene	54	4.904	4.898	0.006	95	108687	5.00	5.35	
12 Bromomethane	94	5.475	5.482	-0.007	88	57677	5.00	5.17	
13 Chloroethane	64	5.628	5.615	0.013	96	57246	5.00	5.47	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	97	137608	5.00	5.36	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	98	98730	5.00	4.96	
20 Ethyl ether	59	6.315	6.321	-0.006	97	64732	5.00	5.16	
22 Acrolein	56	6.625	6.619	0.006	97	49771	25.0	23.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.637	6.637	0.000	70	50931	5.00	5.32	M
25 1,1-Dichloroethene	96	6.729	6.729	0.000	89	51192	5.00	5.10	
24 Acetone	43	6.808	6.808	0.000	97	138527	25.0	24.8	
18 Iodomethane	142	7.027	7.021	0.006	100	93624	5.00	4.81	
27 Carbon disulfide	76	7.118	7.124	-0.006	99	172310	5.00	5.45	
30 Methyl acetate	43	7.173	7.173	0.000	99	165821	10.0	9.92	
28 3-Chloro-1-propene	41	7.203	7.197	0.006	84	135502	5.00	5.02	
31 Methylene Chloride	84	7.392	7.398	-0.006	90	63355	5.00	4.85	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	97	101525	50.0	49.6	
32 Methyl tert-butyl ether	73	7.611	7.605	0.006	97	183568	5.00	5.17	
35 trans-1,2-Dichloroethene	96	7.702	7.696	0.006	89	55508	5.00	4.94	
34 Acrylonitrile	53	7.732	7.733	0.000	98	338621	50.0	49.2	
36 Hexane	57	7.903	7.897	0.006	94	87989	5.00	5.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	97	319274	10.0	10.1	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	97	125984	5.00	5.15	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	96	233286	25.0	24.8	
45 2,2-Dichloropropane	77	8.949	8.949	0.000	86	78553	5.00	5.41	
43 cis-1,2-Dichloroethene	96	8.967	8.961	0.006	88	66404	5.00	5.13	
50 Chlorobromomethane	128	9.302	9.296	0.006	88	33112	5.00	5.13	
51 Tetrahydrofuran	42	9.308	9.308	0.000	85	59097	10.0	9.39	
49 Chloroform	83	9.326	9.326	0.000	94	105077	5.00	5.05	
52 1,1,1-Trichloroethane	97	9.564	9.558	0.006	95	95739	5.00	5.43	
54 Cyclohexane	56	9.600	9.600	0.000	95	109550	5.00	5.30	
56 1,1-Dichloropropene	75	9.740	9.740	0.000	82	80396	5.00	5.36	
53 Isobutyl alcohol	43	9.752	9.752	0.000	89	118363	125.0	110.7	
55 Carbon tetrachloride	117	9.758	9.752	0.006	91	91158	5.00	5.53	
57 Benzene	78	10.032	10.038	-0.006	97	225731	5.00	5.11	
60 1,2-Dichloroethane	62	10.087	10.093	-0.006	96	110546	5.00	4.98	
59 n-Heptane	43	10.093	10.099	-0.006	82	72836	5.00	5.18	
62 Trichloroethene	95	10.786	10.793	-0.007	93	59884	5.00	5.06	
64 Methylcyclohexane	83	10.981	10.987	-0.006	95	71671	5.00	5.34	
63 1,2-Dichloropropane	63	11.133	11.127	0.006	88	67871	5.00	5.11	
68 1,4-Dioxane	88	11.243	11.255	-0.012	95	11356	100.0	107.2	
69 Dibromomethane	93	11.334	11.334	0.000	95	40298	5.00	4.94	
70 Dichlorobromomethane	83	11.468	11.468	0.000	94	79335	5.00	4.98	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	93	28696	5.00	5.08	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	87	92613	5.00	5.07	
75 4-Methyl-2-pentanone (MIBK	43	12.100	12.101	0.000	99	510640	25.0	25.1	
76 Toluene	92	12.423	12.423	0.000	96	137469	5.00	4.99	
77 Ethyl methacrylate	69	12.648	12.642	0.006	90	73454	5.00	4.94	
78 trans-1,3-Dichloropropene	75	12.715	12.715	0.000	97	88964	5.00	5.06	
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	93	44899	5.00	5.19	
80 Tetrachloroethene	166	13.141	13.147	-0.006	92	60083	5.00	5.08	
83 2-Hexanone	43	13.189	13.189	0.000	97	362628	25.0	24.6	
82 1,3-Dichloropropane	76	13.232	13.238	-0.006	92	89745	5.00	4.85	
81 Chlorodibromomethane	129	13.573	13.573	0.000	90	64666	5.00	4.87	
85 Ethylene Dibromide	107	13.773	13.773	0.000	97	57888	5.00	5.05	
87 Chlorobenzene	112	14.327	14.333	-0.006	97	163484	5.00	5.09	
89 Ethylbenzene	91	14.376	14.376	0.000	98	263792	5.00	5.05	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	91	63781	5.00	5.18	
90 m-Xylene & p-Xylene	106	14.516	14.510	0.006	0	103156	5.00	5.17	
93 o-Xylene	106	15.063	15.063	0.000	98	99456	5.00	5.02	
94 Styrene	104	15.088	15.088	0.000	94	172097	5.00	4.97	
92 Bromoform	173	15.477	15.477	0.000	91	41539	5.00	4.80	
95 Isopropylbenzene	105	15.495	15.489	0.006	97	257078	5.00	5.35	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	96	69794	5.00	5.09	
98 trans-1,4-Dichloro-2-buten	53	16.012	16.012	0.000	42	25759	5.00	4.70	
99 N-Propylbenzene	91	16.018	16.018	0.000	99	293185	5.00	5.26	
100 Bromobenzene	156	16.037	16.037	0.000	92	72425	5.00	5.19	
101 1,2,3-Trichloropropane	110	16.061	16.061	0.000	85	23947	5.00	5.20	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	94	207848	5.00	5.08	
103 2-Chlorotoluene	126	16.225	16.225	0.000	94	66313	5.00	5.29	
105 4-Chlorotoluene	126	16.347	16.353	-0.006	99	68877	5.00	5.43	
106 tert-Butylbenzene	134	16.645	16.645	0.000	93	42283	5.00	4.97	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	98	225810	5.00	5.23	

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	16.913	16.913	0.000	95	243490	5.00	5.31	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	97	211564	5.00	5.17	
110 1,3-Dichlorobenzene	146	17.180	17.180	0.000	98	133702	5.00	5.22	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	96	141916	5.00	5.24	
115 n-Butylbenzene	91	17.576	17.576	0.000	97	177651	5.00	5.24	
116 1,2-Dichlorobenzene	146	17.776	17.776	0.000	96	128519	5.00	5.06	
117 1,2-Dibromo-3-Chloropropan	75	18.823	18.823	0.000	78	18726	5.00	5.10	
119 1,2,4-Trichlorobenzene	180	19.912	19.912	0.000	95	82032	5.00	5.15	
120 Hexachlorobutadiene	225	20.033	20.033	0.000	95	26164	5.00	5.46	
121 Naphthalene	128	20.356	20.356	0.000	98	242090	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	20.727	20.733	-0.006	94	73857	5.00	4.81	
S 125 Total BTEX	1				0			25.3	
S 126 Xylenes, Total	1				0			10.2	
S 123 1,2-Dichloroethene, Total	1				0			10.1	
S 124 1,3-Dichloropropene, Total	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00133	Amount Added:	5.00	Units: uL	
GAS CORP mix_00298	Amount Added:	5.00	Units: uL	
P 8260 IS_00326	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added:	1.25	Units: uL	Run Reagent

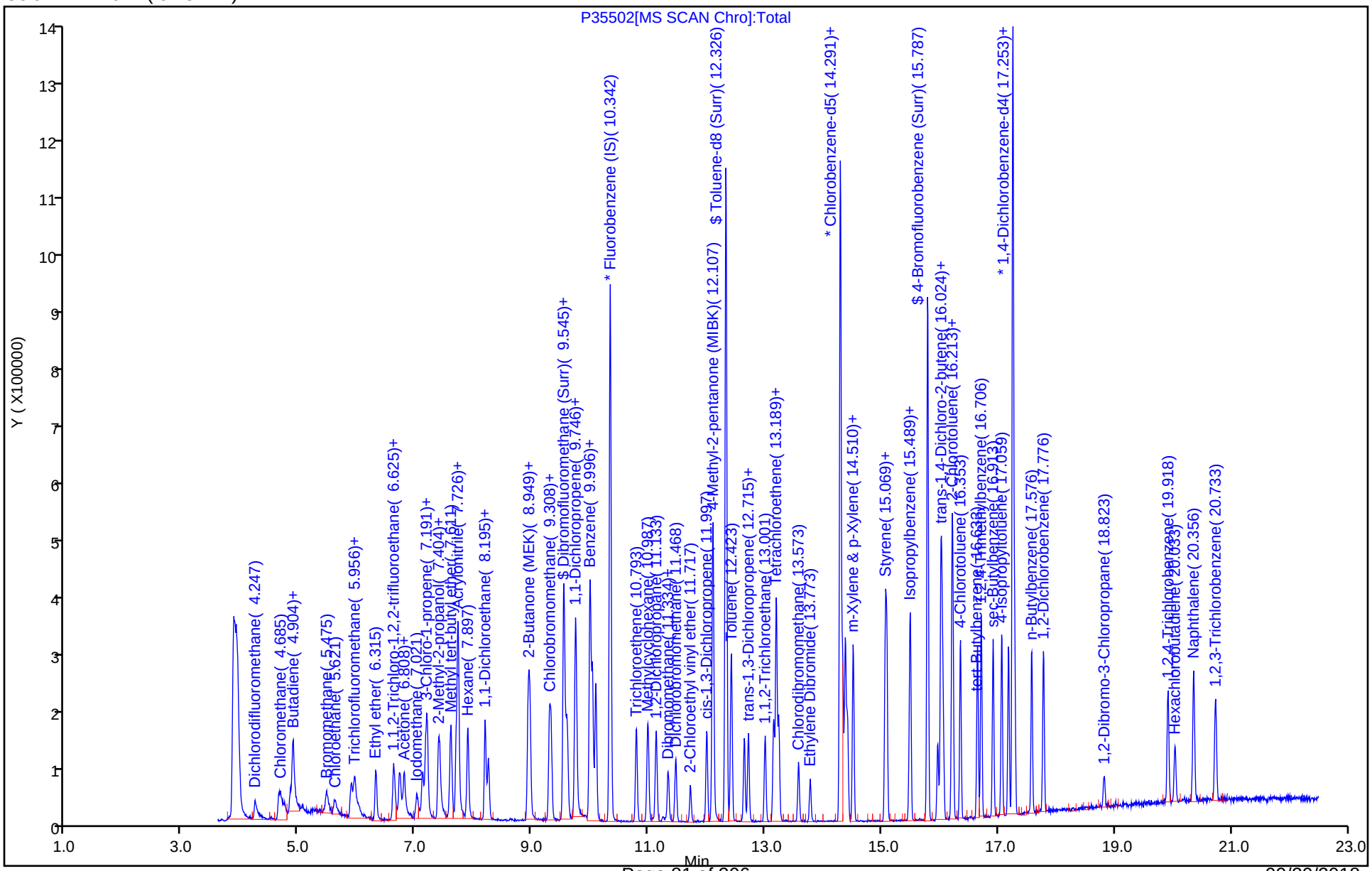
Report Date: 28-Aug-2018 09:52:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35502.D

Injection Date:	27-Aug-2018 16:46:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

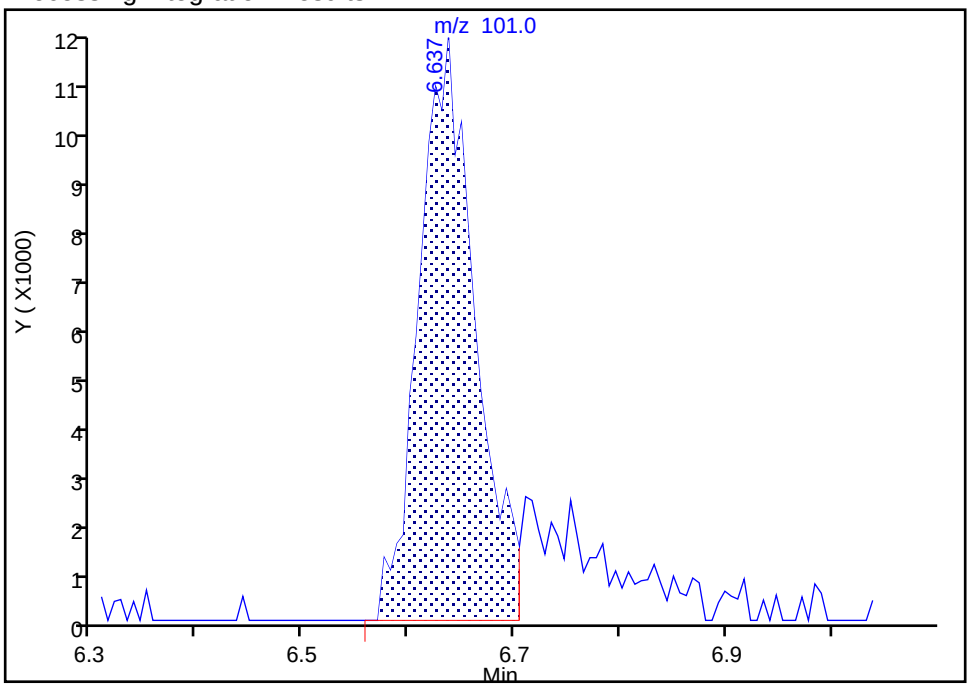
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35502.D
Injection Date: 27-Aug-2018 16:46:30 Instrument ID: HP5973P
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

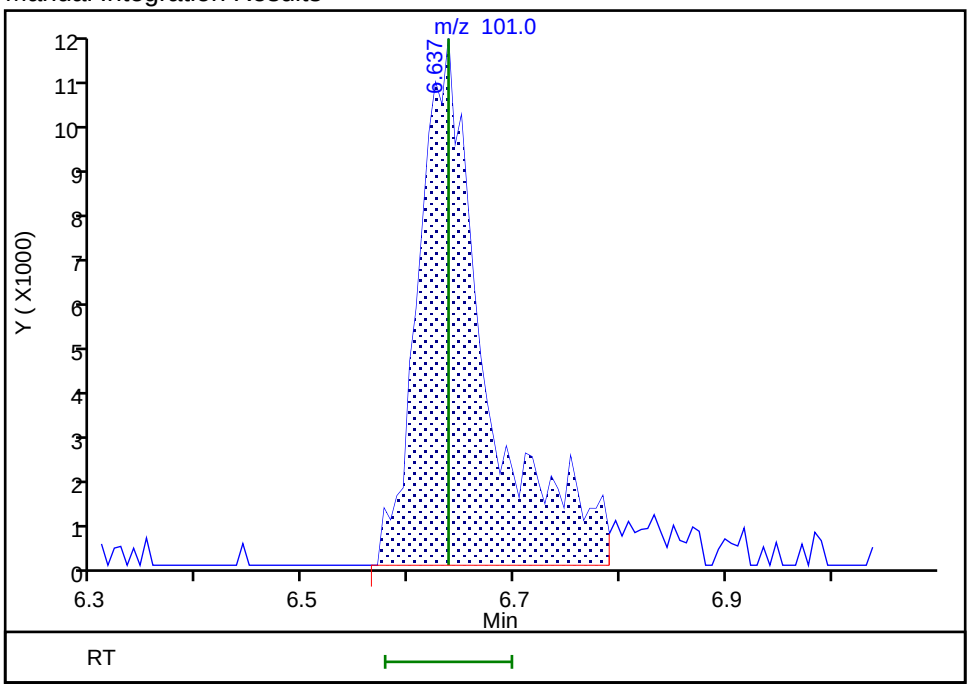
Processing Integration Results

RT: 6.64
Area: 42702
Amount: 4.576302
Amount Units: ug/L



Manual Integration Results

RT: 6.64
Area: 50931
Amount: 5.324041
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:47:06
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35503.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Aug-2018 17:14:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0074204-009
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:28 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:50:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	97	191929	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	88	383961	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	96	403337	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.545	9.545	0.000	92	251922	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.989	0.000	0	173633	25.0	25.6	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	94	871285	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.793	15.793	0.000	95	290475	25.0	25.0	
10 Dichlorodifluoromethane	85	4.247	4.247	0.000	98	158381	10.0	10.3	
11 Chloromethane	50	4.660	4.660	0.000	99	294461	10.0	9.70	
17 Vinyl chloride	62	4.861	4.861	0.000	97	202657	10.0	10.1	
144 Butadiene	54	4.898	4.898	0.000	94	214656	10.0	10.4	
12 Bromomethane	94	5.482	5.482	0.000	90	113473	10.0	10.0	
13 Chloroethane	64	5.621	5.621	0.000	95	110228	10.0	10.4	
19 Dichlorofluoromethane	67	5.901	5.901	0.000	97	274673	10.0	10.6	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	97	225865	10.0	11.2	
20 Ethyl ether	59	6.321	6.321	0.000	96	129713	10.0	10.2	
22 Acrolein	56	6.619	6.619	0.000	98	103146	50.0	47.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.631	0.000	91	105382	10.0	10.9	
25 1,1-Dichloroethene	96	6.735	6.735	0.000	90	104260	10.0	10.2	
24 Acetone	43	6.808	6.808	0.000	97	249318	50.0	43.9	
18 Iodomethane	142	7.021	7.021	0.000	99	202637	10.0	10.3	
27 Carbon disulfide	76	7.118	7.118	0.000	99	333851	10.0	10.4	
30 Methyl acetate	43	7.173	7.173	0.000	100	340794	20.0	20.1	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	84	264097	10.0	9.66	
31 Methylene Chloride	84	7.398	7.398	0.000	91	135705	10.0	10.7	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	97	198474	100.0	95.7	
32 Methyl tert-butyl ether	73	7.611	7.611	0.000	96	355549	10.0	9.88	
35 trans-1,2-Dichloroethene	96	7.702	7.702	0.000	89	111578	10.0	9.78	
34 Acrylonitrile	53	7.732	7.732	0.000	99	691553	100.0	99.2	
36 Hexane	57	7.903	7.903	0.000	94	171782	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	97	657591	20.0	20.4	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	96	256160	10.0	10.3	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	96	482061	50.0	50.6	
45 2,2-Dichloropropane	77	8.943	8.943	0.000	89	147782	10.0	10.0	
43 cis-1,2-Dichloroethene	96	8.967	8.967	0.000	89	125923	10.0	9.59	
50 Chlorobromomethane	128	9.290	9.290	0.000	91	66100	10.0	10.1	
51 Tetrahydrofuran	42	9.314	9.314	0.000	96	126082	20.0	19.8	
49 Chloroform	83	9.326	9.326	0.000	94	205567	10.0	9.74	
52 1,1,1-Trichloroethane	97	9.558	9.558	0.000	95	176028	10.0	9.84	
54 Cyclohexane	56	9.606	9.606	0.000	95	213371	10.0	10.2	
56 1,1-Dichloropropene	75	9.740	9.740	0.000	90	153125	10.0	10.1	
53 Isobutyl alcohol	43	9.752	9.752	0.000	93	286601	250.0	264.2	
55 Carbon tetrachloride	117	9.752	9.752	0.000	88	174605	10.0	10.4	
57 Benzene	78	10.038	10.038	0.000	97	443689	10.0	9.91	
60 1,2-Dichloroethane	62	10.093	10.093	0.000	95	228030	10.0	10.1	
59 n-Heptane	43	10.099	10.099	0.000	78	146750	10.0	10.3	
62 Trichloroethene	95	10.786	10.786	0.000	91	117797	10.0	9.81	
64 Methylcyclohexane	83	10.987	10.987	0.000	96	143083	10.0	10.5	
63 1,2-Dichloropropane	63	11.127	11.127	0.000	89	138743	10.0	10.3	
68 1,4-Dioxane	88	11.243	11.243	0.000	89	21223	200.0	192.1	
69 Dibromomethane	93	11.334	11.334	0.000	94	83151	10.0	10.1	
70 Dichlorobromomethane	83	11.462	11.462	0.000	95	168045	10.0	10.4	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	91	58086	10.0	10.1	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	87	182518	10.0	9.86	
75 4-Methyl-2-pentanone (MIBK	43	12.100	12.100	0.000	99	1067878	50.0	52.6	
76 Toluene	92	12.423	12.423	0.000	96	281143	10.0	10.2	
77 Ethyl methacrylate	69	12.642	12.642	0.000	90	154209	10.0	10.4	
78 trans-1,3-Dichloropropene	75	12.715	12.715	0.000	94	176894	10.0	10.1	
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	95	88400	10.0	10.2	
80 Tetrachloroethene	166	13.147	13.147	0.000	95	126379	10.0	10.7	
83 2-Hexanone	43	13.189	13.189	0.000	98	766303	50.0	52.0	
82 1,3-Dichloropropane	76	13.232	13.232	0.000	93	187046	10.0	10.1	
81 Chlorodibromomethane	129	13.573	13.573	0.000	89	133924	10.0	10.1	
85 Ethylene Dibromide	107	13.773	13.773	0.000	98	114229	10.0	10.0	
87 Chlorobenzene	112	14.333	14.333	0.000	95	323524	10.0	10.1	
89 Ethylbenzene	91	14.376	14.376	0.000	97	530329	10.0	10.2	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	93	126343	10.0	10.3	
90 m-Xylene & p-Xylene	106	14.516	14.516	0.000	0	201290	10.0	10.1	
93 o-Xylene	106	15.063	15.063	0.000	96	200820	10.0	10.2	
94 Styrene	104	15.088	15.088	0.000	93	347769	10.0	10.1	
92 Bromoform	173	15.477	15.477	0.000	94	88871	10.0	10.3	
95 Isopropylbenzene	105	15.489	15.489	0.000	97	509320	10.0	10.3	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	95	143249	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	16.012	16.012	0.000	42	59108	10.0	10.5	
99 N-Propylbenzene	91	16.018	16.018	0.000	98	579881	10.0	10.1	
100 Bromobenzene	156	16.037	16.037	0.000	94	143435	10.0	9.96	
101 1,2,3-Trichloropropane	110	16.055	16.055	0.000	89	48008	10.0	10.1	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	94	432648	10.0	10.3	
103 2-Chlorotoluene	126	16.225	16.225	0.000	94	131563	10.0	10.2	
105 4-Chlorotoluene	126	16.353	16.353	0.000	99	138000	10.0	10.6	
106 tert-Butylbenzene	134	16.651	16.651	0.000	93	85185	10.0	9.71	
107 1,2,4-Trimethylbenzene	105	16.712	16.712	0.000	98	453989	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.913	16.913	0.000	95	484957	10.0	10.3	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	97	425628	10.0	10.1	
110 1,3-Dichlorobenzene	146	17.180	17.180	0.000	97	268471	10.0	10.2	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	95	281211	10.0	10.1	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	352971	10.0	10.1	
116 1,2-Dichlorobenzene	146	17.776	17.776	0.000	96	260688	10.0	9.96	
117 1,2-Dibromo-3-Chloropropan	75	18.817	18.817	0.000	76	35459	10.0	9.37	
119 1,2,4-Trichlorobenzene	180	19.912	19.912	0.000	94	164497	10.0	10.0	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	93	54106	10.0	11.0	
121 Naphthalene	128	20.356	20.356	0.000	98	503288	10.0	10.1	
122 1,2,3-Trichlorobenzene	180	20.733	20.733	0.000	95	156863	10.0	9.92	
S 125 Total BTEX	1				0			50.6	
S 126 Xylenes, Total	1				0			20.3	
S 123 1,2-Dichloroethene, Total	1				0			19.4	
S 124 1,3-Dichloropropene, Total	1				0			20.0	

Reagents:

8260 CORP mix_00133	Amount Added:	5.00	Units: uL	
GAS CORP mix_00298	Amount Added:	5.00	Units: uL	
P 8260 IS_00326	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added:	1.25	Units: uL	Run Reagent

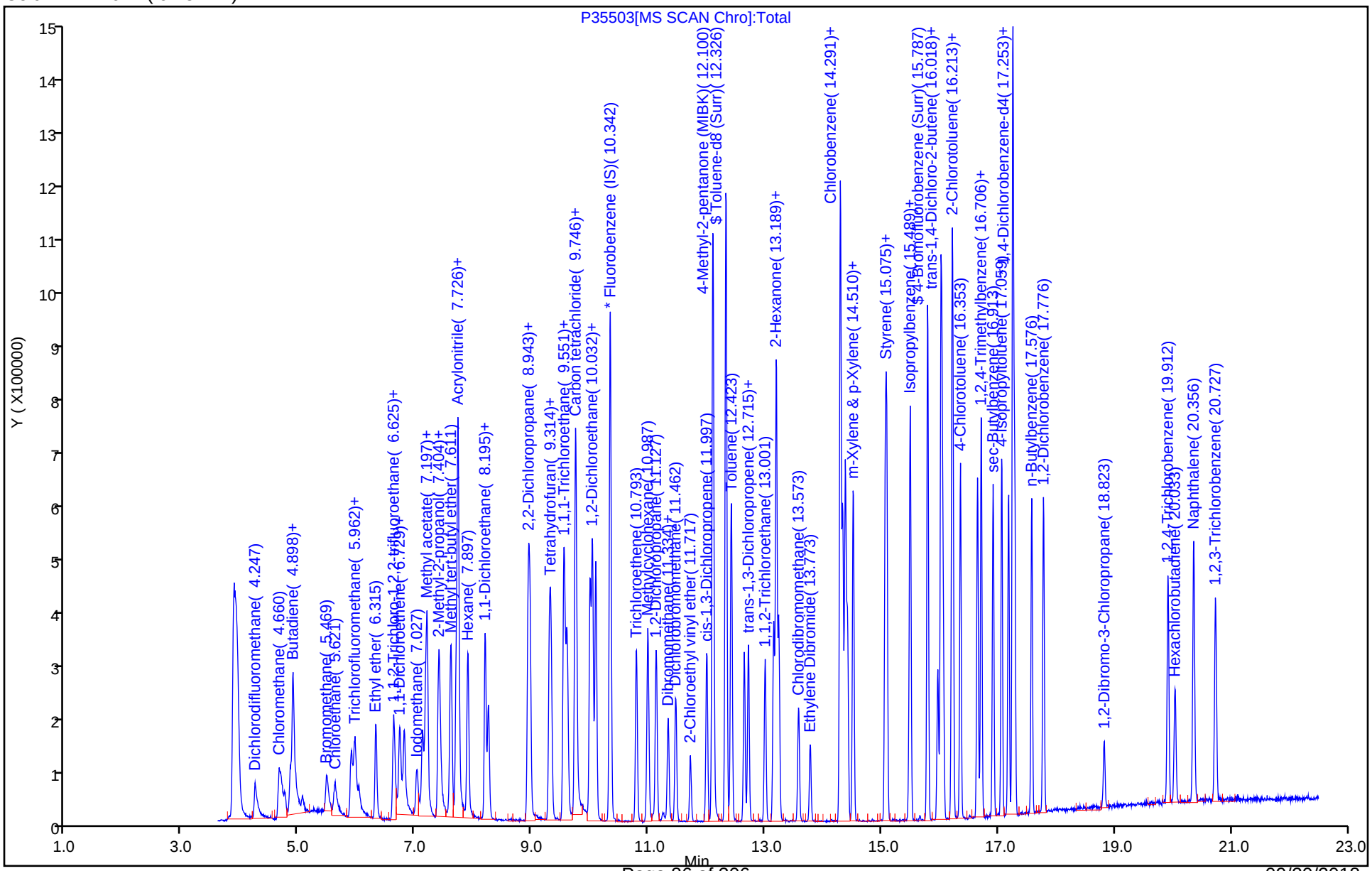
Report Date: 28-Aug-2018 09:52:32 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35503.D

Injection Date:	27-Aug-2018 17:14:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35504.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 27-Aug-2018 17:41:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0074204-010
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:35 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:39:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	97	193581	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	88	400758	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	95	418203	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	92	251977	25.0	24.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.996	9.996	0.000	0	165867	25.0	24.2	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	94	897061	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.793	15.793	0.000	89	301072	25.0	24.8	
10 Dichlorodifluoromethane	85	4.247	4.247	0.000	98	412803	25.0	26.7	
11 Chloromethane	50	4.672	4.672	0.000	99	742964	25.0	24.3	
17 Vinyl chloride	62	4.855	4.855	0.000	97	530048	25.0	26.1	
144 Butadiene	54	4.898	4.898	0.000	94	542436	25.0	26.1	
12 Bromomethane	94	5.482	5.482	0.000	92	292477	25.0	25.6	
13 Chloroethane	64	5.615	5.615	0.000	97	295445	25.0	27.6	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	98	677934	25.0	25.8	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	97	560546	25.0	27.5	
20 Ethyl ether	59	6.321	6.321	0.000	97	332255	25.0	25.9	
22 Acrolein	56	6.619	6.619	0.000	99	277045	125.0	127.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.637	6.637	0.000	95	255901	25.0	26.2	
25 1,1-Dichloroethene	96	6.729	6.729	0.000	90	250706	25.0	24.4	
24 Acetone	43	6.808	6.808	0.000	97	726347	125.0	126.9	
18 Iodomethane	142	7.021	7.021	0.000	98	540011	25.0	27.1	
27 Carbon disulfide	76	7.124	7.124	0.000	99	803480	25.0	24.9	
30 Methyl acetate	43	7.173	7.173	0.000	100	889070	50.0	52.0	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	86	688555	25.0	25.0	
31 Methylene Chloride	84	7.398	7.398	0.000	91	322898	25.0	25.9	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	97	531630	250.0	254.1	
32 Methyl tert-butyl ether	73	7.605	7.605	0.000	97	932229	25.0	25.7	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	89	287136	25.0	25.0	
34 Acrylonitrile	53	7.733	7.733	0.000	98	1769852	250.0	251.6	
36 Hexane	57	7.897	7.897	0.000	96	423525	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
38 Vinyl acetate	43	8.195	8.195	0.000	97	1691672	50.0	52.1	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	97	643673	25.0	25.7	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	97	1217864	125.0	126.8	
45 2,2-Dichloropropane	77	8.949	8.949	0.000	91	370710	25.0	25.0	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	89	316868	25.0	23.9	
50 Chlorobromomethane	128	9.296	9.296	0.000	89	168799	25.0	25.6	
51 Tetrahydrofuran	42	9.308	9.308	0.000	92	328099	50.0	51.0	
49 Chloroform	83	9.326	9.326	0.000	94	531806	25.0	25.0	
52 1,1,1-Trichloroethane	97	9.558	9.558	0.000	96	476757	25.0	26.4	
54 Cyclohexane	56	9.600	9.600	0.000	95	546074	25.0	25.8	
56 1,1-Dichloropropene	75	9.740	9.740	0.000	88	403830	25.0	26.3	
53 Isobutyl alcohol	43	9.752	9.752	0.000	95	746972	625.0	682.8	
55 Carbon tetrachloride	117	9.752	9.752	0.000	81	451423	25.0	26.8	
57 Benzene	78	10.038	10.038	0.000	97	1126950	25.0	25.0	
60 1,2-Dichloroethane	62	10.093	10.093	0.000	96	564936	25.0	24.9	
59 n-Heptane	43	10.099	10.099	0.000	97	361147	25.0	25.1	
62 Trichloroethene	95	10.793	10.793	0.000	93	305670	25.0	25.2	
64 Methylcyclohexane	83	10.987	10.987	0.000	96	365297	25.0	26.6	
63 1,2-Dichloropropane	63	11.127	11.127	0.000	90	349413	25.0	25.7	
68 1,4-Dioxane	88	11.255	11.255	0.000	88	59725	500.0	501.2	
69 Dibromomethane	93	11.334	11.334	0.000	96	211288	25.0	25.3	
70 Dichlorobromomethane	83	11.468	11.468	0.000	94	421828	25.0	25.9	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	92	152432	25.0	26.4	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	87	478995	25.0	25.6	
75 4-Methyl-2-pentanone (MIBK	43	12.101	12.101	0.000	99	2760605	125.0	130.3	
76 Toluene	92	12.423	12.423	0.000	98	724227	25.0	25.2	
77 Ethyl methacrylate	69	12.642	12.642	0.000	90	412882	25.0	26.7	
78 trans-1,3-Dichloropropene	75	12.715	12.715	0.000	95	476382	25.0	26.0	
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	94	223031	25.0	24.8	
80 Tetrachloroethene	166	13.147	13.147	0.000	93	314063	25.0	25.5	
83 2-Hexanone	43	13.189	13.189	0.000	98	2031888	125.0	132.2	
82 1,3-Dichloropropane	76	13.238	13.238	0.000	92	477169	25.0	24.8	
81 Chlorodibromomethane	129	13.573	13.573	0.000	90	357942	25.0	25.9	
85 Ethylene Dibromide	107	13.773	13.773	0.000	98	304626	25.0	25.5	
87 Chlorobenzene	112	14.333	14.333	0.000	96	838396	25.0	25.1	
89 Ethylbenzene	91	14.376	14.376	0.000	97	1374974	25.0	25.3	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	94	334519	25.0	26.1	
90 m-Xylene & p-Xylene	106	14.510	14.510	0.000	0	537112	25.0	25.9	
93 o-Xylene	106	15.063	15.063	0.000	98	536465	25.0	26.0	
94 Styrene	104	15.088	15.088	0.000	95	943957	25.0	26.2	
92 Bromoform	173	15.477	15.477	0.000	96	242401	25.0	26.9	
95 Isopropylbenzene	105	15.489	15.489	0.000	98	1327865	25.0	25.8	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	97	372557	25.0	25.4	
98 trans-1,4-Dichloro-2-buten	53	16.012	16.012	0.000	78	167516	25.0	28.6	
99 N-Propylbenzene	91	16.018	16.018	0.000	98	1517676	25.0	25.5	
100 Bromobenzene	156	16.037	16.037	0.000	93	380801	25.0	25.5	
101 1,2,3-Trichloropropane	110	16.061	16.061	0.000	82	126085	25.0	25.6	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	95	1131771	25.0	25.9	
103 2-Chlorotoluene	126	16.225	16.225	0.000	94	345673	25.0	25.8	
105 4-Chlorotoluene	126	16.353	16.353	0.000	98	356039	25.0	26.3	
106 tert-Butylbenzene	134	16.645	16.645	0.000	95	226228	25.0	24.9	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	98	1211148	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.913	16.913	0.000	95	1258100	25.0	25.7	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	97	1140184	25.0	26.1	
110 1,3-Dichlorobenzene	146	17.180	17.180	0.000	98	705989	25.0	25.8	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	93	721807	25.0	24.9	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	910214	25.0	25.1	
116 1,2-Dichlorobenzene	146	17.776	17.776	0.000	96	698818	25.0	25.8	
117 1,2-Dibromo-3-Chloropropan	75	18.823	18.823	0.000	76	91930	25.0	23.4	
119 1,2,4-Trichlorobenzene	180	19.912	19.912	0.000	94	438297	25.0	25.8	
120 Hexachlorobutadiene	225	20.033	20.033	0.000	95	137964	25.0	26.9	
121 Naphthalene	128	20.356	20.356	0.000	98	1334729	25.0	25.9	
122 1,2,3-Trichlorobenzene	180	20.733	20.733	0.000	95	416836	25.0	25.4	

Reagents:

8260 CORP mix_00133	Amount Added: 12.50	Units: uL	
GAS CORP mix_00298	Amount Added: 12.50	Units: uL	
P 8260 IS_00326	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added: 1.25	Units: uL	Run Reagent

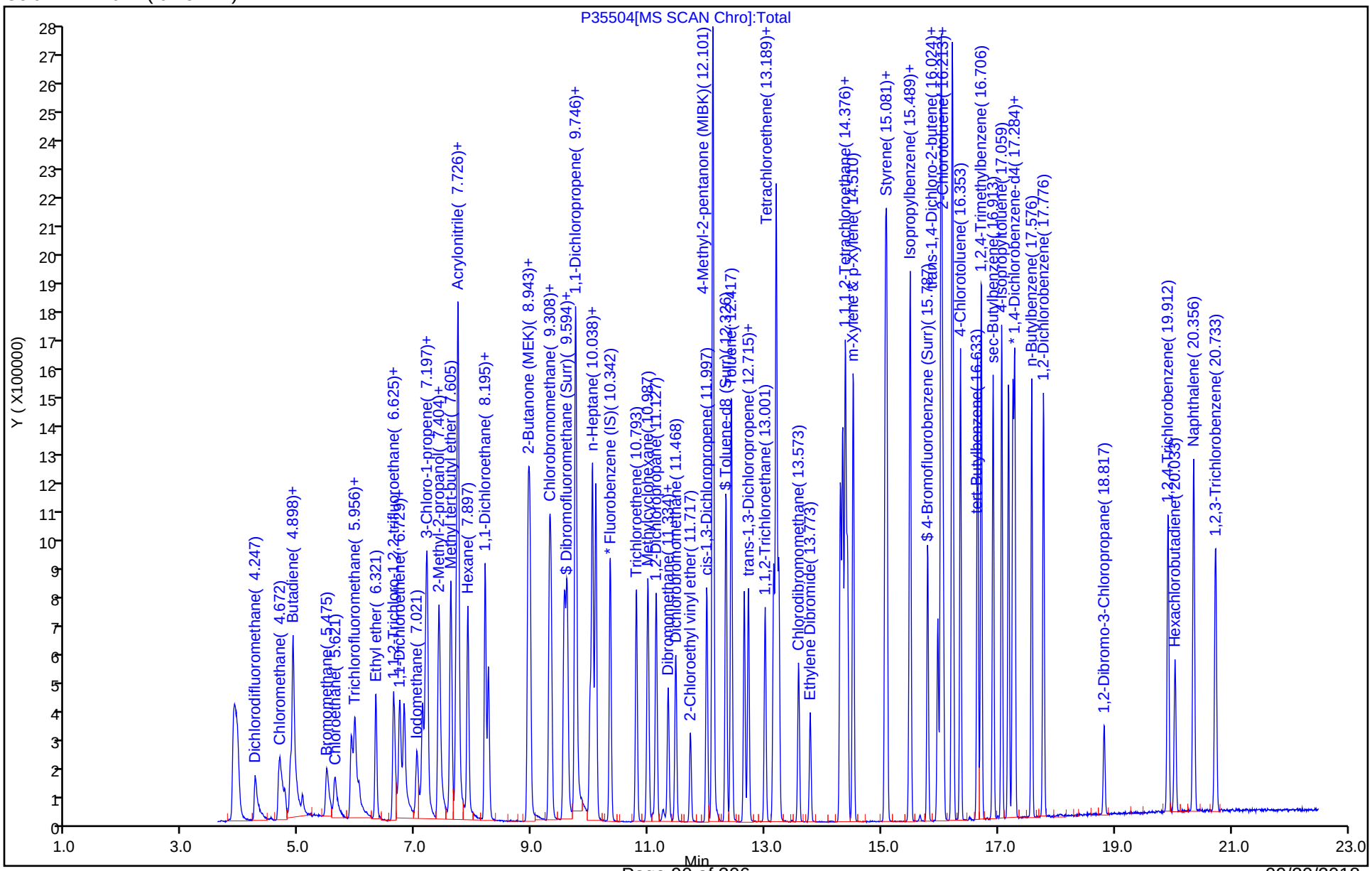
Report Date: 28-Aug-2018 09:52:42 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35504.D

Injection Date:	27-Aug-2018 17:41:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35505.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Aug-2018 18:09:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0074204-011
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:48 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:52:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	98	198302	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	87	396688	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	95	434282	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.545	9.539	0.006	92	259500	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.996	-0.006	0	168724	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	94	927227	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.793	-0.006	88	309035	25.0	25.7	
10 Dichlorodifluoromethane	85	4.247	4.247	0.000	98	777097	50.0	49.0	
11 Chloromethane	50	4.666	4.672	-0.006	99	1401159	50.0	44.7	
17 Vinyl chloride	62	4.849	4.855	-0.006	98	986755	50.0	47.5	
144 Butadiene	54	4.898	4.898	0.000	93	994786	50.0	46.7	
12 Bromomethane	94	5.482	5.482	0.000	92	560876	50.0	48.0	
13 Chloroethane	64	5.615	5.615	0.000	97	565859	50.0	51.6	
19 Dichlorofluoromethane	67	5.901	5.895	0.006	97	1314786	50.0	48.9	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	98	1061729	50.0	50.9	
20 Ethyl ether	59	6.321	6.321	0.000	97	657552	50.0	50.1	
22 Acrolein	56	6.625	6.619	0.006	99	572260	250.0	256.2	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.637	-0.006	64	504351	50.0	50.3	
25 1,1-Dichloroethene	96	6.729	6.729	0.000	91	518203	50.0	49.3	
24 Acetone	43	6.808	6.808	0.000	97	1423826	250.0	242.9	
18 Iodomethane	142	7.027	7.021	0.006	99	1102577	50.0	54.1	
27 Carbon disulfide	76	7.124	7.124	0.000	99	1628865	50.0	49.2	
30 Methyl acetate	43	7.173	7.173	0.000	100	1735248	100.0	99.1	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	85	1407198	50.0	49.8	
31 Methylene Chloride	84	7.392	7.398	-0.006	91	631660	50.0	49.8	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	97	1083461	500.0	505.6	
32 Methyl tert-butyl ether	73	7.605	7.605	0.000	98	1873766	50.0	50.4	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	90	573693	50.0	48.7	
34 Acrylonitrile	53	7.733	7.733	0.001	98	3621148	500.0	502.5	
36 Hexane	57	7.897	7.897	0.000	96	860959	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	97	3367199	100.0	101.3	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	97	1315529	50.0	51.3	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	96	2569810	250.0	261.2	
45 2,2-Dichloropropane	77	8.943	8.949	-0.006	91	752393	50.0	49.5	
43 cis-1,2-Dichloroethene	96	8.968	8.961	0.007	88	657261	50.0	48.5	
50 Chlorobromomethane	128	9.296	9.296	0.000	90	336367	50.0	49.7	
51 Tetrahydrofuran	42	9.302	9.308	-0.006	93	652649	100.0	99.0	
49 Chloroform	83	9.326	9.326	0.000	95	1076628	50.0	49.4	
52 1,1,1-Trichloroethane	97	9.564	9.558	0.006	97	943032	50.0	51.0	
54 Cyclohexane	56	9.600	9.600	0.000	96	1108995	50.0	51.2	
56 1,1-Dichloropropene	75	9.740	9.740	0.000	88	813493	50.0	51.8	
53 Isobutyl alcohol	43	9.752	9.752	0.000	94	1507146	1250.0	1344.8	
55 Carbon tetrachloride	117	9.752	9.752	0.000	84	924284	50.0	53.5	
57 Benzene	78	10.038	10.038	0.000	97	2296863	50.0	49.7	
60 1,2-Dichloroethane	62	10.093	10.093	0.000	96	1124124	50.0	48.3	
59 n-Heptane	43	10.093	10.099	-0.006	97	742536	50.0	50.4	
62 Trichloroethene	95	10.793	10.793	0.000	93	608150	50.0	49.0	
64 Methylcyclohexane	83	10.987	10.987	0.000	96	736046	50.0	52.4	
63 1,2-Dichloropropane	63	11.133	11.127	0.006	89	708273	50.0	50.9	
68 1,4-Dioxane	88	11.249	11.255	-0.006	95	119344	1000.0	1001.6	
69 Dibromomethane	93	11.334	11.334	0.000	95	422953	50.0	49.5	
70 Dichlorobromomethane	83	11.468	11.468	0.000	95	855626	50.0	51.3	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	92	334488	50.0	56.5	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	87	980877	50.0	51.3	
75 4-Methyl-2-pentanone (MIBK	43	12.101	12.101	0.001	99	5486893	250.0	261.6	
76 Toluene	92	12.417	12.423	-0.006	97	1471141	50.0	51.8	
77 Ethyl methacrylate	69	12.642	12.642	0.000	91	828340	50.0	54.0	
78 trans-1,3-Dichloropropene	75	12.715	12.715	0.000	96	972973	50.0	53.7	
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	95	447764	50.0	50.2	
80 Tetrachloroethene	166	13.147	13.147	0.000	94	637583	50.0	52.3	
83 2-Hexanone	43	13.190	13.189	0.001	99	4054040	250.0	266.4	
82 1,3-Dichloropropane	76	13.232	13.238	-0.006	97	975941	50.0	51.1	
81 Chlorodibromomethane	129	13.573	13.573	0.000	90	720629	50.0	52.6	
85 Ethylene Dibromide	107	13.774	13.773	0.001	100	610491	50.0	51.7	
87 Chlorobenzene	112	14.333	14.333	0.000	96	1696242	50.0	51.2	
89 Ethylbenzene	91	14.376	14.376	0.000	97	2777255	50.0	51.6	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	95	682259	50.0	53.7	
90 m-Xylene & p-Xylene	106	14.510	14.510	0.000	0	1109809	50.0	54.0	
93 o-Xylene	106	15.063	15.063	0.000	98	1078735	50.0	52.8	
94 Styrene	104	15.088	15.088	0.000	95	1961304	50.0	55.0	
92 Bromoform	173	15.471	15.477	-0.006	94	500616	50.0	56.1	
95 Isopropylbenzene	105	15.489	15.489	0.000	98	2689525	50.0	50.4	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	96	740901	50.0	48.7	
98 trans-1,4-Dichloro-2-buten	53	16.012	16.012	0.000	75	352735	50.0	57.9	
99 N-Propylbenzene	91	16.018	16.018	0.000	98	3116316	50.0	50.4	
100 Bromobenzene	156	16.037	16.037	0.000	94	767036	50.0	49.5	
101 1,2,3-Trichloropropane	110	16.061	16.061	0.000	84	253426	50.0	49.6	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	95	2337944	50.0	51.5	
103 2-Chlorotoluene	126	16.225	16.225	0.000	97	699671	50.0	50.2	
105 4-Chlorotoluene	126	16.353	16.353	0.000	98	735793	50.0	52.3	
106 tert-Butylbenzene	134	16.645	16.645	0.000	95	478461	50.0	50.6	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	98	2461539	50.0	51.3	

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	16.913	16.913	0.000	95	2572374	50.0	50.6	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	97	2339435	50.0	51.5	
110 1,3-Dichlorobenzene	146	17.180	17.180	0.000	98	1447443	50.0	50.9	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	93	1489766	50.0	49.5	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	1911700	50.0	50.8	
116 1,2-Dichlorobenzene	146	17.777	17.776	0.001	96	1424912	50.0	50.6	
117 1,2-Dibromo-3-Chloropropan	75	18.823	18.823	0.000	91	188092	50.0	46.2	
119 1,2,4-Trichlorobenzene	180	19.918	19.912	0.006	94	898465	50.0	50.9	
120 Hexachlorobutadiene	225	20.040	20.033	0.007	96	292132	50.0	54.9	
121 Naphthalene	128	20.356	20.356	0.000	97	2866134	50.0	53.5	
122 1,2,3-Trichlorobenzene	180	20.727	20.733	-0.006	95	870601	50.0	51.1	
S 125 Total BTEX	1				0			259.9	
S 126 Xylenes, Total	1				0			106.8	
S 123 1,2-Dichloroethene, Total	1				0			97.1	
S 124 1,3-Dichloropropene, Total	1				0			105.0	

Reagents:

8260 CORP mix_00133	Amount Added:	25.00	Units: uL	
GAS CORP mix_00298	Amount Added:	25.00	Units: uL	
P 8260 IS_00326	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added:	1.25	Units: uL	Run Reagent

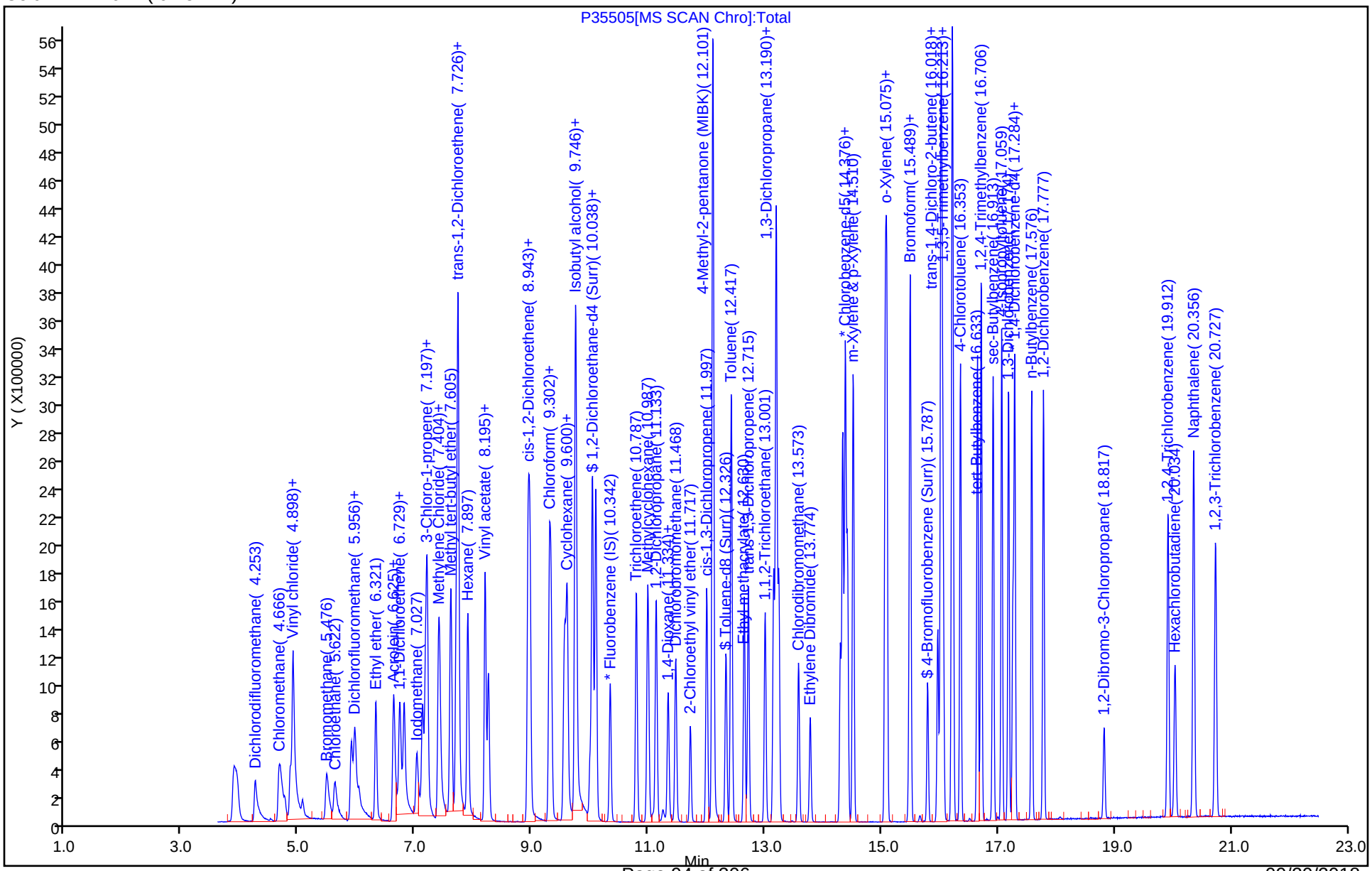
Report Date: 28-Aug-2018 09:52:51 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35505.D

Injection Date:	27-Aug-2018 18:09:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35506.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Aug-2018 18:37:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0074204-012
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2018 09:52:55 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: baroner Date: 27-Aug-2018 22:52:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	97	206058	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	86	424492	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	96	476378	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	93	282814	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.996	9.996	0.000	0	182990	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	12.332	12.326	0.006	94	977429	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.793	15.793	0.000	89	331035	25.0	25.7	
10 Dichlorodifluoromethane	85	4.247	4.247	0.000	98	1603818	100.0	97.3	
11 Chloromethane	50	4.666	4.672	-0.006	99	2859990	100.0	87.8	
17 Vinyl chloride	62	4.855	4.855	0.000	98	2059365	100.0	95.4	
144 Butadiene	54	4.898	4.898	0.000	91	2057750	100.0	93.0	
12 Bromomethane	94	5.476	5.482	-0.006	95	1133997	100.0	93.4	
13 Chloroethane	64	5.622	5.615	0.007	96	1157840	100.0	101.7	
19 Dichlorofluoromethane	67	5.901	5.895	0.006	98	2708781	100.0	97.0	
14 Trichlorofluoromethane	101	5.968	5.962	0.006	98	2201581	100.0	101.6	
20 Ethyl ether	59	6.321	6.321	0.000	98	1373055	100.0	100.6	
22 Acrolein	56	6.619	6.619	0.000	99	1222994	500.0	526.9	
16 1,1,2-Trichloro-1,2,2-trif	101	6.638	6.637	0.001	93	1184817	100.0	113.8	
25 1,1-Dichloroethene	96	6.735	6.729	0.006	91	1121550	100.0	102.7	
24 Acetone	43	6.808	6.808	0.000	97	2961393	500.0	486.1	
18 Iodomethane	142	7.021	7.021	0.000	99	2307512	100.0	108.9	
27 Carbon disulfide	76	7.124	7.124	0.000	99	3448155	100.0	100.2	
30 Methyl acetate	43	7.173	7.173	0.000	100	3585905	200.0	197.0	
28 3-Chloro-1-propene	41	7.203	7.197	0.006	85	2886342	100.0	98.3	
31 Methylene Chloride	84	7.398	7.398	0.000	91	1297839	100.0	98.8	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	98	2341636	1000.0	1051.6	M
32 Methyl tert-butyl ether	73	7.605	7.605	0.000	98	3934573	100.0	101.8	
35 trans-1,2-Dichloroethene	96	7.702	7.696	0.006	90	1206996	100.0	98.6	
34 Acrylonitrile	53	7.733	7.733	0.001	98	7510198	1000.0	1003.0	
36 Hexane	57	7.897	7.897	0.000	95	1863595	100.0	101.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	97	6876314	200.0	199.0	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	97	2762649	100.0	103.7	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	97	5123586	500.0	501.1	
45 2,2-Dichloropropane	77	8.943	8.949	-0.006	92	1567250	100.0	99.1	
43 cis-1,2-Dichloroethene	96	8.968	8.961	0.007	90	1379934	100.0	97.9	
50 Chlorobromomethane	128	9.296	9.296	0.000	91	710637	100.0	101.1	
51 Tetrahydrofuran	42	9.308	9.308	0.000	93	1351700	200.0	197.4	
49 Chloroform	83	9.326	9.326	0.000	95	2258571	100.0	99.7	
52 1,1,1-Trichloroethane	97	9.564	9.558	0.006	97	1982482	100.0	103.2	
54 Cyclohexane	56	9.600	9.600	0.000	94	2365087	100.0	105.0	
56 1,1-Dichloropropene	75	9.740	9.740	0.000	90	1731271	100.0	106.1	
53 Isobutyl alcohol	43	9.752	9.752	0.000	91	3199848	2500.0	2747.7	
55 Carbon tetrachloride	117	9.758	9.752	0.006	96	1966016	100.0	109.5	
57 Benzene	78	10.038	10.038	0.000	97	4791121	100.0	99.7	
60 1,2-Dichloroethane	62	10.093	10.093	0.000	96	2336661	100.0	96.6	
59 n-Heptane	43	10.099	10.099	0.000	96	1552595	100.0	101.4	
62 Trichloroethene	95	10.793	10.793	0.000	93	1284788	100.0	99.7	
64 Methylcyclohexane	83	10.987	10.987	0.000	97	1584032	100.0	108.4	
63 1,2-Dichloropropane	63	11.127	11.127	0.000	91	1492039	100.0	103.2	
68 1,4-Dioxane	88	11.249	11.255	-0.006	97	256372	2000.0	2000.6	
69 Dibromomethane	93	11.334	11.334	0.000	95	898733	100.0	101.2	
70 Dichlorobromomethane	83	11.468	11.468	0.000	95	1815404	100.0	104.7	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	91	739819	100.0	120.3	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	88	2067448	100.0	104.0	
75 4-Methyl-2-pentanone (MIBK	43	12.107	12.101	0.007	99	10993705	500.0	489.9	
76 Toluene	92	12.423	12.423	0.000	97	3137078	100.0	103.2	
77 Ethyl methacrylate	69	12.642	12.642	0.000	92	1813523	100.0	110.5	
78 trans-1,3-Dichloropropene	75	12.715	12.715	0.000	97	2093550	100.0	108.1	
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	95	941194	100.0	98.7	
80 Tetrachloroethene	166	13.147	13.147	0.000	95	1371620	100.0	105.2	
83 2-Hexanone	43	13.190	13.189	0.001	99	8229056	500.0	505.3	
82 1,3-Dichloropropane	76	13.232	13.238	-0.006	94	2055098	100.0	100.6	
81 Chlorodibromomethane	129	13.573	13.573	0.000	90	1546880	100.0	105.6	
85 Ethylene Dibromide	107	13.774	13.773	0.001	98	1311295	100.0	103.7	
87 Chlorobenzene	112	14.333	14.333	0.000	96	3566104	100.0	100.7	
89 Ethylbenzene	91	14.376	14.376	0.000	97	5929915	100.0	103.0	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	94	1455307	100.0	107.1	
90 m-Xylene & p-Xylene	106	14.516	14.510	0.006	0	2362092	100.0	107.4	
93 o-Xylene	106	15.063	15.063	0.000	98	2352187	100.0	107.6	
94 Styrene	104	15.088	15.088	0.000	94	4274249	100.0	112.0	
92 Bromoform	173	15.477	15.477	0.000	95	1097327	100.0	114.9	
95 Isopropylbenzene	105	15.489	15.489	0.000	97	5816287	100.0	99.4	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	96	1550323	100.0	92.9	
98 trans-1,4-Dichloro-2-buten	53	16.018	16.012	0.006	79	780922	100.0	116.9	
99 N-Propylbenzene	91	16.018	16.018	0.000	98	6689674	100.0	98.6	
100 Bromobenzene	156	16.037	16.037	0.000	94	1666007	100.0	98.0	
101 1,2,3-Trichloropropane	110	16.061	16.061	0.000	85	542777	100.0	96.8	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	98	5073987	100.0	101.9	
103 2-Chlorotoluene	126	16.225	16.225	0.000	97	1533500	100.0	100.4	
105 4-Chlorotoluene	126	16.353	16.353	0.000	98	1582893	100.0	102.5	
106 tert-Butylbenzene	134	16.645	16.645	0.000	95	1028750	100.0	99.2	
107 1,2,4-Trimethylbenzene	105	16.712	16.706	0.006	98	5372379	100.0	102.1	

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	16.913	16.913	0.000	95	5635838	100.0	101.0	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	97	5188034	100.0	104.2	
110 1,3-Dichlorobenzene	146	17.180	17.180	0.000	98	3149163	100.0	100.9	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	93	3258220	100.0	98.8	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	4132490	100.0	100.2	
116 1,2-Dichlorobenzene	146	17.777	17.776	0.001	97	3061024	100.0	99.1	
117 1,2-Dibromo-3-Chloropropan	75	18.817	18.823	-0.006	80	409743	100.0	91.7	
119 1,2,4-Trichlorobenzene	180	19.918	19.912	0.006	94	1936749	100.0	99.9	
120 Hexachlorobutadiene	225	20.040	20.033	0.007	96	600317	100.0	102.9	
121 Naphthalene	128	20.356	20.356	0.000	98	6087363	100.0	103.7	
122 1,2,3-Trichlorobenzene	180	20.733	20.733	0.000	95	1873247	100.0	100.3	
S 125 Total BTEX	1				0			520.9	
S 126 Xylenes, Total	1				0			215.0	
S 123 1,2-Dichloroethene, Total	1				0			196.5	
S 124 1,3-Dichloropropene, Total	1				0			212.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00133	Amount Added:	50.00	Units: uL	
GAS CORP mix_00298	Amount Added:	50.00	Units: uL	
P 8260 IS_00326	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00299	Amount Added:	1.25	Units: uL	Run Reagent

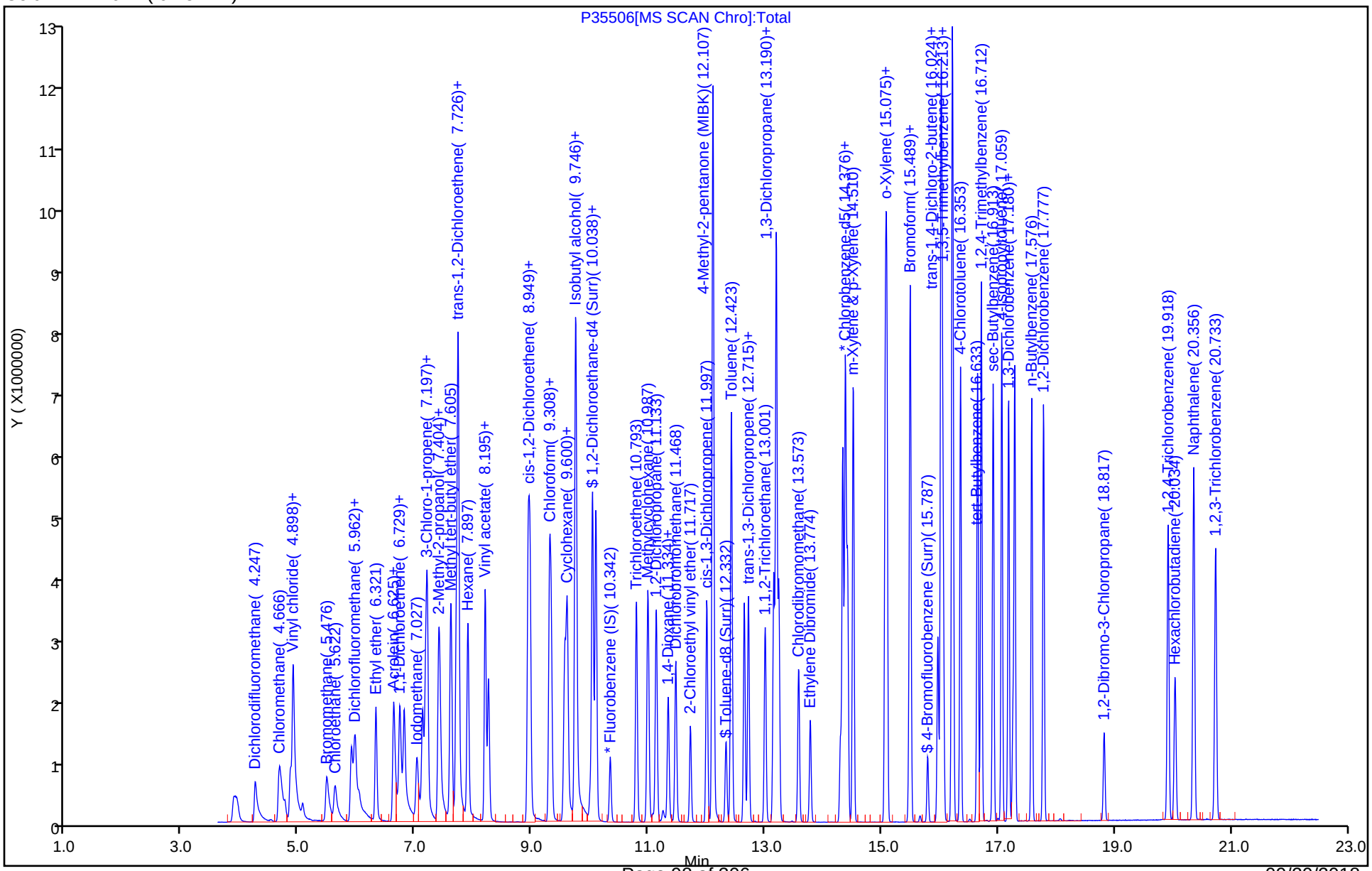
Report Date: 28-Aug-2018 09:52:58 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35506.D

Injection Date:	27-Aug-2018 18:37:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

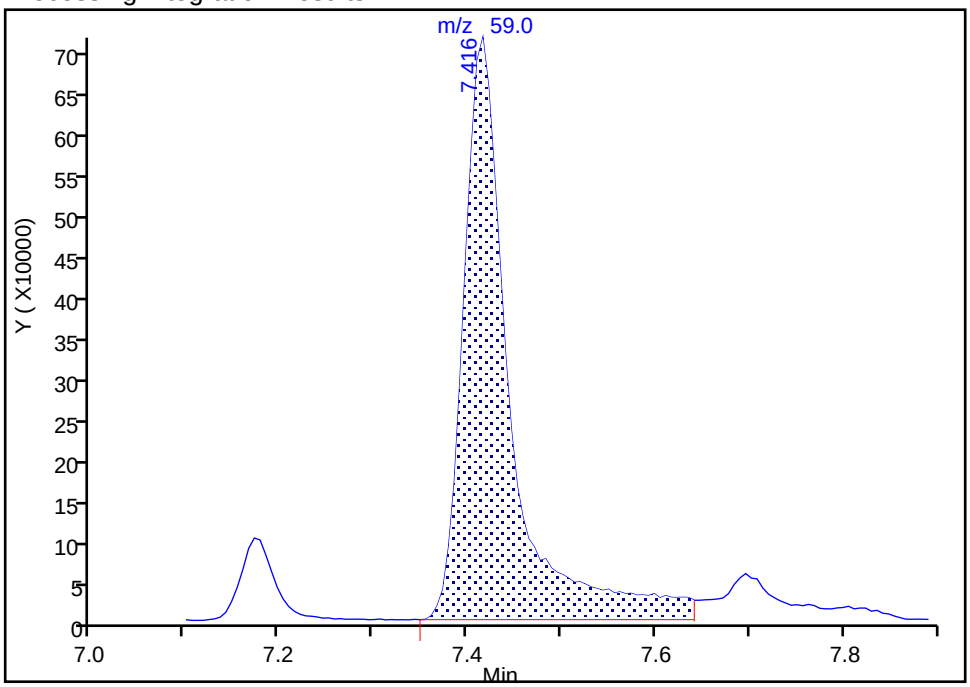
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35506.D
Injection Date: 27-Aug-2018 18:37:30 Instrument ID: HP5973P
Lims ID: IC 7
Client ID:
Operator ID: RF ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

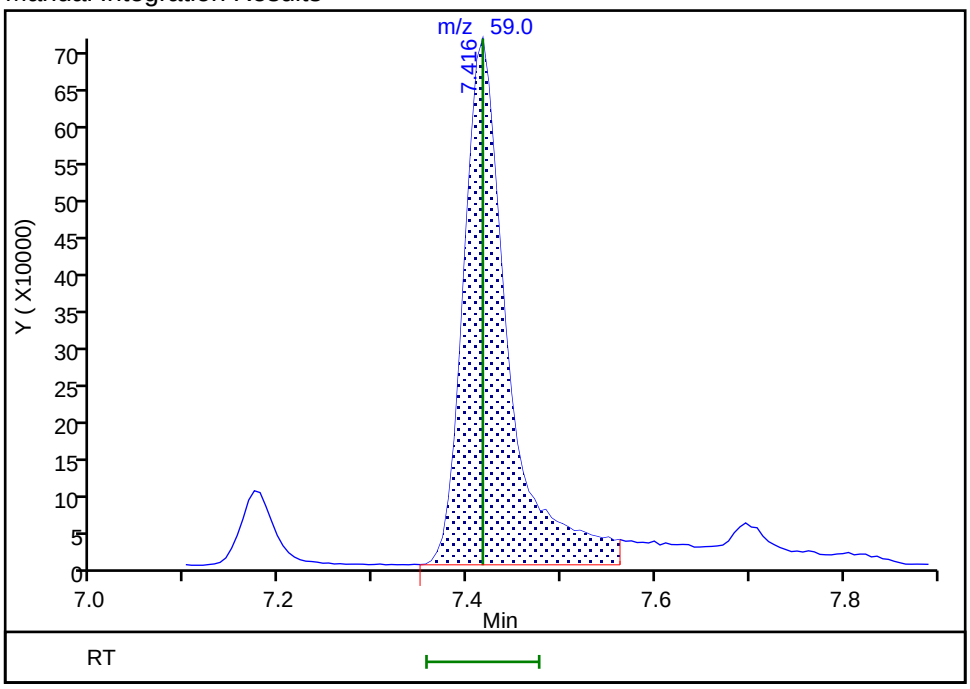
Processing Integration Results

RT: 7.42
Area: 2473795
Amount: 1101.6568
Amount Units: ug/L



Manual Integration Results

RT: 7.42
Area: 2341636
Amount: 1051.6444
Amount Units: ug/L



Reviewer: baroner, 27-Aug-2018 22:53:22
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID: CCVIS 480-433198/10 Calibration Date: 09/06/2018 21:32

Instrument ID: HP5973P Calib Start Date: 08/27/2018 15:51

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 08/27/2018 18:37

Lab File ID: P35783.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	2.000	2.294	0.1000	28.7	25.0	14.7	50.0
Chloromethane	Ave	3.953	4.206	0.1000	26.6	25.0	6.4	20.0
Vinyl chloride	Ave	2.618	2.737	0.1000	26.1	25.0	4.5	20.0
Butadiene	Ave	2.685	2.829		26.3	25.0	5.4	20.0
Bromomethane	Ave	1.474	1.478	0.1000	25.1	25.0	0.3	50.0
Chloroethane	Ave	1.381	1.423	0.1000	25.8	25.0	3.0	50.0
Dichlorofluoromethane	Ave	3.388	3.229		23.8	25.0	-4.7	20.0
Trichlorofluoromethane	Ave	2.628	2.732	0.1000	26.0	25.0	3.9	20.0
Ethyl ether	Ave	1.656	1.752		26.4	25.0	5.8	20.0
Acrolein	Ave	0.2816	0.4788		213	125	70.0*	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.264	1.423	0.1000	28.1	25.0	12.6	20.0
1,1-Dichloroethene	Ave	1.325	1.501	0.1000	28.3	25.0	13.2	20.0
Acetone	Ave	0.7391	0.7343	0.1000	124	125	-0.7	50.0
Iodomethane	Ave	2.570	3.040		29.6	25.0	18.3	20.0
Carbon disulfide	Ave	4.173	4.425	0.1000	26.5	25.0	6.0	20.0
Methyl acetate	Ave	2.208	2.186	0.1000	49.5	50.0	-1.0	50.0
Allyl chloride	Ave	3.563	4.077		28.6	25.0	14.4	20.0
Methylene Chloride	Lin1		1.660	0.1000	25.7	25.0	2.9	20.0
2-Methyl-2-propanol	Ave	0.2701	0.2497		231	250	-7.6	50.0
Methyl tert-butyl ether	Ave	4.687	4.524	0.1000	24.1	25.0	-3.5	20.0
trans-1,2-Dichloroethene	Ave	1.486	1.609	0.1000	27.1	25.0	8.3	20.0
Acrylonitrile	Ave	0.9084	1.012		279	250	11.4	20.0
Hexane	Ave	2.226	2.546		28.6	25.0	14.4	20.0
Vinyl acetate	Ave	4.192	5.718		68.2	50.0	36.4*	20.0
1,1-Dichloroethane	Ave	3.233	3.481	0.2000	26.9	25.0	7.7	20.0
2-Butanone (MEK)	Ave	1.240	1.356	0.1000	137	125	9.3	20.0
2,2-Dichloropropane	Ave	1.918	2.137		27.9	25.0	11.4	20.0
cis-1,2-Dichloroethene	Ave	1.710	1.859	0.1000	27.2	25.0	8.7	20.0
Chlorobromomethane	Ave	0.8524	0.9733		28.5	25.0	14.2	20.0
Tetrahydrofuran	Ave	0.8309	0.8877		53.4	50.0	6.8	20.0
Chloroform	Ave	2.749	2.790	0.2000	25.4	25.0	1.5	20.0
1,1,1-Trichloroethane	Ave	2.330	2.454	0.1000	26.3	25.0	5.3	20.0
Cyclohexane	Ave	2.732	3.300	0.1000	30.2	25.0	20.8*	20.0
1,1-Dichloropropene	Ave	1.980	2.168		27.4	25.0	9.5	20.0
Isobutyl alcohol	Ave	0.1413	0.1646		728	625	16.5	50.0
Carbon tetrachloride	Ave	2.178	2.393	0.1000	27.5	25.0	9.9	20.0
Benzene	Ave	5.830	6.403	0.5000	27.5	25.0	9.8	20.0
1,2-Dichloroethane	Ave	2.934	2.726	0.1000	23.2	25.0	-7.1	20.0
n-Heptane	Ave	1.858	2.240		30.1	25.0	20.5*	20.0
Trichloroethene	Ave	1.564	1.713	0.2000	27.4	25.0	9.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID: CCVIS 480-433198/10 Calibration Date: 09/06/2018 21:32

Instrument ID: HP5973P Calib Start Date: 08/27/2018 15:51

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 08/27/2018 18:37

Lab File ID: P35783.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	1.772	2.104	0.1000	29.7	25.0	18.7	20.0
1,2-Dichloropropane	Ave	1.754	2.071	0.1000	29.5	25.0	18.1	20.0
1,4-Dioxane	Lin1		0.0075		507	500	1.4	50.0
Dibromomethane	Ave	1.078	1.142	0.1000	26.5	25.0	6.0	20.0
Bromodichloromethane	Ave	2.104	2.178	0.2000	25.9	25.0	3.5	20.0
2-Chloroethyl vinyl ether	Ave	0.7461	0.9239		31.0	25.0	23.8*	20.0
cis-1,3-Dichloropropene	Ave	2.412	2.674	0.2000	27.7	25.0	10.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.322	1.289	0.1000	122	125	-2.4	20.0
Toluene	Ave	1.790	1.882	0.4000	26.3	25.0	5.1	20.0
Ethyl methacrylate	Ave	0.9663	0.9703		25.1	25.0	0.4	20.0
trans-1,3-Dichloropropene	Ave	1.141	1.101	0.1000	24.1	25.0	-3.5	20.0
1,1,2-Trichloroethane	Ave	0.5618	0.5415	0.1000	24.1	25.0	-3.6	20.0
Tetrachloroethene	Ave	0.7678	0.8651	0.2000	28.2	25.0	12.7	20.0
2-Hexanone	Ave	0.9591	0.9548	0.1000	124	125	-0.4	20.0
1,3-Dichloropropane	Ave	1.203	1.111		23.1	25.0	-7.7	20.0
Dibromochloromethane	Ave	0.8630	0.8626	0.1000	25.0	25.0	-0.0	20.0
1,2-Dibromoethane	Ave	0.7445	0.7507		25.2	25.0	0.8	20.0
Chlorobenzene	Ave	2.086	2.208	0.5000	26.5	25.0	5.8	20.0
Ethylbenzene	Ave	3.391	3.517	0.1000	25.9	25.0	3.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8004	0.8389		26.2	25.0	4.8	20.0
m,p-Xylene	Ave	1.295	1.454	0.1000	28.1	25.0	12.3	20.0
o-Xylene	Ave	1.287	1.422	0.3000	27.6	25.0	10.5	20.0
Styrene	Ave	2.248	2.484	0.3000	27.6	25.0	10.5	20.0
Bromoform	Ave	0.5625	0.5867	0.1000	26.1	25.0	4.3	50.0
Isopropylbenzene	Ave	3.072	2.984	0.1000	24.3	25.0	-2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8760	0.7990	0.3000	22.8	25.0	-8.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3505	0.3396		24.2	25.0	-3.1	50.0
N-Propylbenzene	Ave	3.561	3.444		24.2	25.0	-3.3	20.0
Bromobenzene	Ave	0.8924	0.8731		24.5	25.0	-2.2	20.0
1,2,3-Trichloropropane	Ave	0.2942	0.2486		21.1	25.0	-15.5	20.0
1,3,5-Trimethylbenzene	Ave	2.613	2.520		24.1	25.0	-3.6	20.0
2-Chlorotoluene	Ave	0.8015	0.7741		24.1	25.0	-3.4	20.0
4-Chlorotoluene	Ave	0.8105	0.8314		25.6	25.0	2.6	20.0
tert-Butylbenzene	Ave	0.5440	0.5239		24.1	25.0	-3.7	20.0
1,2,4-Trimethylbenzene	Ave	2.760	2.676		24.2	25.0	-3.0	20.0
sec-Butylbenzene	Ave	2.928	2.879		24.6	25.0	-1.7	20.0
4-Isopropyltoluene	Ave	2.613	2.631		25.2	25.0	0.7	20.0
1,3-Dichlorobenzene	Ave	1.637	1.636	0.6000	25.0	25.0	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.731	1.710	0.5000	24.7	25.0	-1.2	20.0
n-Butylbenzene	Ave	2.165	2.072		23.9	25.0	-4.3	20.0
1,2-Dichlorobenzene	Ave	1.622	1.620	0.4000	25.0	25.0	-0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID: CCVIS 480-433198/10 Calibration Date: 09/06/2018 21:32

Instrument ID: HP5973P Calib Start Date: 08/27/2018 15:51

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 08/27/2018 18:37

Lab File ID: P35783.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	0.2345	0.1730	0.0500	18.4	25.0	-26.2	50.0
1,2,4-Trichlorobenzene	Ave	1.017	1.026	0.2000	25.2	25.0	0.9	20.0
Hexachlorobutadiene	Ave	0.3063	0.3443		28.1	25.0	12.4	20.0
Naphthalene	Ave	3.082	3.053		24.8	25.0	-0.9	20.0
1,2,3-Trichlorobenzene	Ave	0.9801	0.996		25.4	25.0	1.6	20.0
Dibromofluoromethane (Surr)	Ave	1.326	1.475		27.8	25.0	11.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8848	0.8511		24.0	25.0	-3.8	20.0
Toluene-d8 (Surr)	Ave	2.275	2.329		25.6	25.0	2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7573	0.8266		27.3	25.0	9.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35783.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Sep-2018 21:32:30 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0074461-004
Operator ID: RB Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Sep-2018 22:23:20 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: baroner Date: 06-Sep-2018 22:23:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	98	169809	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	86	388341	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	95	455432	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	93	250533	25.0	27.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.990	0.000	0	144528	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	94	904258	25.0	25.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.787	0.000	93	321015	25.0	27.3	
10 Dichlorodifluoromethane	85	4.247	4.247	0.000	98	389590	25.0	28.7	
11 Chloromethane	50	4.672	4.672	0.000	99	714171	25.0	26.6	
17 Vinyl chloride	62	4.855	4.855	0.000	97	464825	25.0	26.1	
144 Butadiene	54	4.898	4.898	0.000	94	480464	25.0	26.3	
12 Bromomethane	94	5.488	5.488	0.000	92	251015	25.0	25.1	
13 Chloroethane	64	5.615	5.615	0.000	98	241689	25.0	25.8	
19 Dichlorofluoromethane	67	5.901	5.901	0.000	97	548256	25.0	23.8	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	98	463879	25.0	26.0	
20 Ethyl ether	59	6.315	6.315	0.000	95	297540	25.0	26.4	
22 Acrolein	56	6.625	6.625	0.000	99	406527	125.0	212.5	
16 1,1,2-Trichloro-1,2,2-trif	101	6.637	6.637	0.000	60	241553	25.0	28.1	
25 1,1-Dichloroethene	96	6.729	6.729	0.000	91	254831	25.0	28.3	
24 Acetone	43	6.808	6.808	0.000	98	623453	125.0	124.2	
18 Iodomethane	142	7.027	7.027	0.000	99	516152	25.0	29.6	
27 Carbon disulfide	76	7.124	7.124	0.000	100	751338	25.0	26.5	
30 Methyl acetate	43	7.173	7.173	0.000	100	742307	50.0	49.5	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	88	692346	25.0	28.6	
31 Methylene Chloride	84	7.392	7.392	0.000	91	281859	25.0	25.7	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	97	423998	250.0	231.1	
32 Methyl tert-butyl ether	73	7.605	7.605	0.000	96	768241	25.0	24.1	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	92	273201	25.0	27.1	
34 Acrylonitrile	53	7.732	7.732	0.000	100	1718685	250.0	278.5	
36 Hexane	57	7.897	7.897	0.000	96	432314	25.0	28.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	96	1941941	50.0	68.2	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	96	591097	25.0	26.9	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	97	1151611	125.0	136.7	
45 2,2-Dichloropropane	77	8.949	8.949	0.000	89	362865	25.0	27.9	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	89	315743	25.0	27.2	
50 Chlorobromomethane	128	9.296	9.296	0.000	89	165273	25.0	28.5	
51 Tetrahydrofuran	42	9.302	9.302	0.000	93	301472	50.0	53.4	
49 Chloroform	83	9.326	9.326	0.000	94	473683	25.0	25.4	
52 1,1,1-Trichloroethane	97	9.564	9.564	0.000	97	416773	25.0	26.3	
54 Cyclohexane	56	9.600	9.600	0.000	94	560413	25.0	30.2	
56 1,1-Dichloropropene	75	9.740	9.740	0.000	86	368138	25.0	27.4	
53 Isobutyl alcohol	43	9.746	9.746	0.000	93	698905	625.0	728.3	
55 Carbon tetrachloride	117	9.752	9.752	0.000	82	406323	25.0	27.5	
57 Benzene	78	10.038	10.038	0.000	97	1087208	25.0	27.5	
60 1,2-Dichloroethane	62	10.093	10.093	0.000	94	462827	25.0	23.2	
59 n-Heptane	43	10.099	10.099	0.000	95	380342	25.0	30.1	
62 Trichloroethene	95	10.786	10.786	0.000	93	290802	25.0	27.4	
64 Methylcyclohexane	83	10.987	10.987	0.000	96	357338	25.0	29.7	
63 1,2-Dichloropropane	63	11.127	11.127	0.000	94	351630	25.0	29.5	
68 1,4-Dioxane	88	11.249	11.249	0.000	94	58587	500.0	507.2	
69 Dibromomethane	93	11.334	11.334	0.000	96	193886	25.0	26.5	
70 Dichlorobromomethane	83	11.468	11.468	0.000	94	369807	25.0	25.9	
71 2-Chloroethyl vinyl ether	63	11.717	11.717	0.000	89	156892	25.0	31.0	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	89	454060	25.0	27.7	
75 4-Methyl-2-pentanone (MIBK	43	12.101	12.101	0.000	98	2503656	125.0	121.9	
76 Toluene	92	12.417	12.417	0.000	98	730960	25.0	26.3	
77 Ethyl methacrylate	69	12.636	12.636	0.000	93	376820	25.0	25.1	
78 trans-1,3-Dichloropropene	75	12.709	12.709	0.000	97	427743	25.0	24.1	
79 1,1,2-Trichloroethane	83	13.001	13.001	0.000	94	210300	25.0	24.1	
80 Tetrachloroethene	166	13.147	13.147	0.000	96	335958	25.0	28.2	
83 2-Hexanone	43	13.189	13.189	0.000	98	1854024	125.0	124.4	
82 1,3-Dichloropropane	76	13.232	13.232	0.000	98	431263	25.0	23.1	
81 Chlorodibromomethane	129	13.573	13.573	0.000	91	334988	25.0	25.0	
85 Ethylene Dibromide	107	13.773	13.773	0.000	98	291513	25.0	25.2	
87 Chlorobenzene	112	14.333	14.333	0.000	97	857418	25.0	26.5	
89 Ethylbenzene	91	14.376	14.376	0.000	97	1365887	25.0	25.9	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	95	325773	25.0	26.2	
90 m-Xylene & p-Xylene	106	14.510	14.510	0.000	0	564539	25.0	28.1	
93 o-Xylene	106	15.063	15.063	0.000	96	552317	25.0	27.6	
94 Styrene	104	15.088	15.088	0.000	95	964504	25.0	27.6	
92 Bromoform	173	15.471	15.471	0.000	95	227841	25.0	26.1	
95 Isopropylbenzene	105	15.489	15.489	0.000	96	1359186	25.0	24.3	
97 1,1,2,2-Tetrachloroethane	83	15.964	15.964	0.000	95	363902	25.0	22.8	
98 trans-1,4-Dichloro-2-buten	53	16.012	16.012	0.000	79	154640	25.0	24.2	
99 N-Propylbenzene	91	16.018	16.018	0.000	99	1568414	25.0	24.2	
100 Bromobenzene	156	16.037	16.037	0.000	91	397638	25.0	24.5	
101 1,2,3-Trichloropropane	110	16.055	16.055	0.000	85	113202	25.0	21.1	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	96	1147467	25.0	24.1	
103 2-Chlorotoluene	126	16.225	16.225	0.000	96	352528	25.0	24.1	
105 4-Chlorotoluene	126	16.353	16.353	0.000	98	378651	25.0	25.6	
106 tert-Butylbenzene	134	16.645	16.645	0.000	94	238611	25.0	24.1	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	97	1218847	25.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.913	16.913	0.000	94	1311295	25.0	24.6	
112 4-Isopropyltoluene	119	17.059	17.059	0.000	98	1198434	25.0	25.2	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	99	745126	25.0	25.0	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	95	778635	25.0	24.7	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	943675	25.0	23.9	
116 1,2-Dichlorobenzene	146	17.776	17.776	0.000	98	737658	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	18.817	18.817	0.000	83	78767	25.0	18.4	
119 1,2,4-Trichlorobenzene	180	19.912	19.912	0.000	95	467358	25.0	25.2	
120 Hexachlorobutadiene	225	20.033	20.033	0.000	98	156804	25.0	28.1	
121 Naphthalene	128	20.356	20.356	0.000	97	1390410	25.0	24.8	
122 1,2,3-Trichlorobenzene	180	20.727	20.727	0.000	97	453528	25.0	25.4	

Reagents:

8260 CORP mix_00135	Amount Added: 12.50	Units: uL	
GAS CORP mix_00300	Amount Added: 12.50	Units: uL	
P 8260 IS_00328	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00301	Amount Added: 1.25	Units: uL	Run Reagent

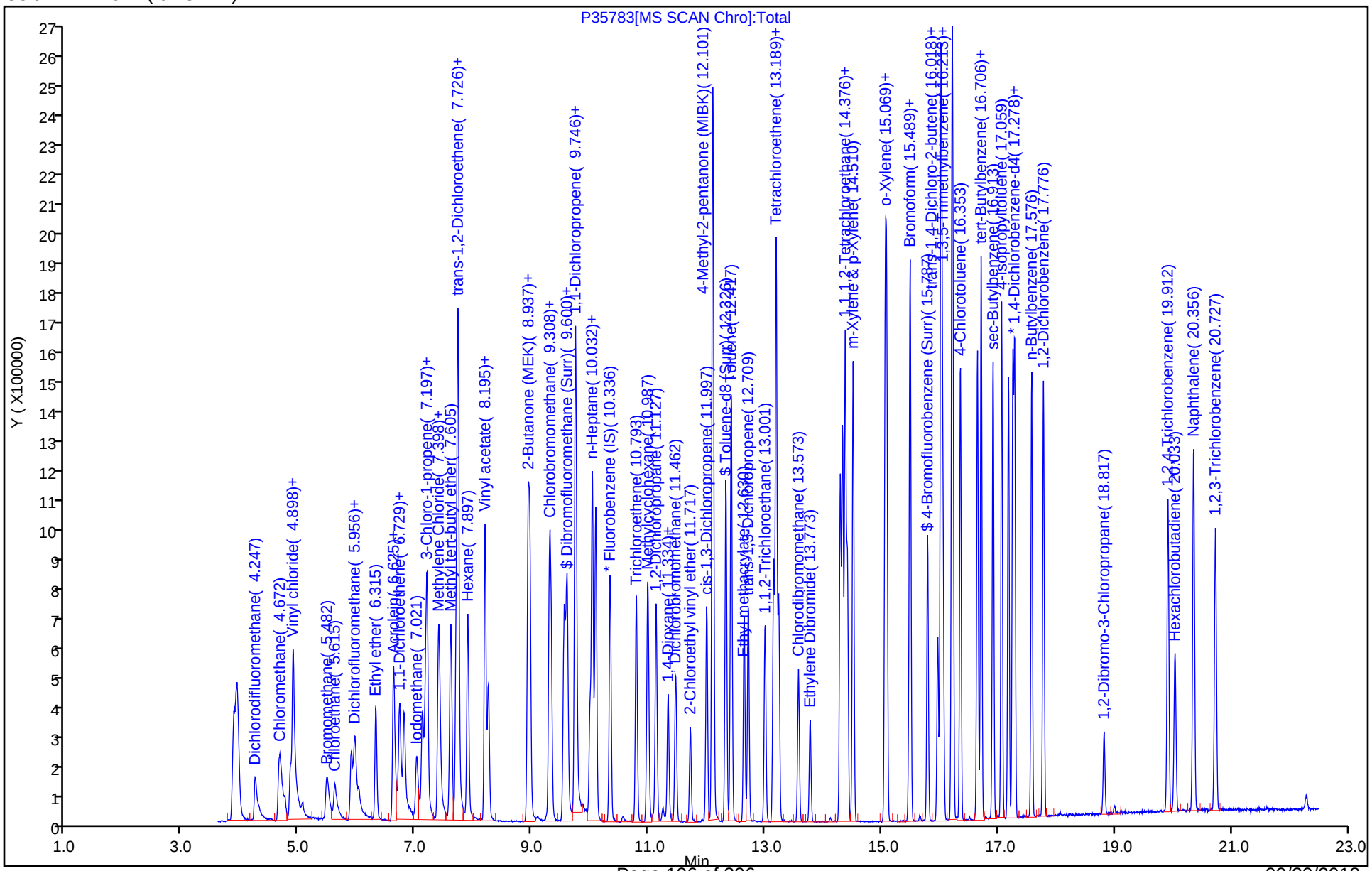
Report Date: 06-Sep-2018 22:23:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35783.D

Injection Date:	06-Sep-2018 21:32:30	Instrument ID:	HP5973P	Operator ID:	RB
Lims ID:	CCVIS			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35498.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Aug-2018 14:53:30	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0074204-004				
Operator ID:	RF	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Aug-2018 09:54:24	Calib Date:	27-Aug-2018 22:18:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: farrellr		Date:	28-Aug-2018 09:54:24		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.554	7.554	0.000	0	176365	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

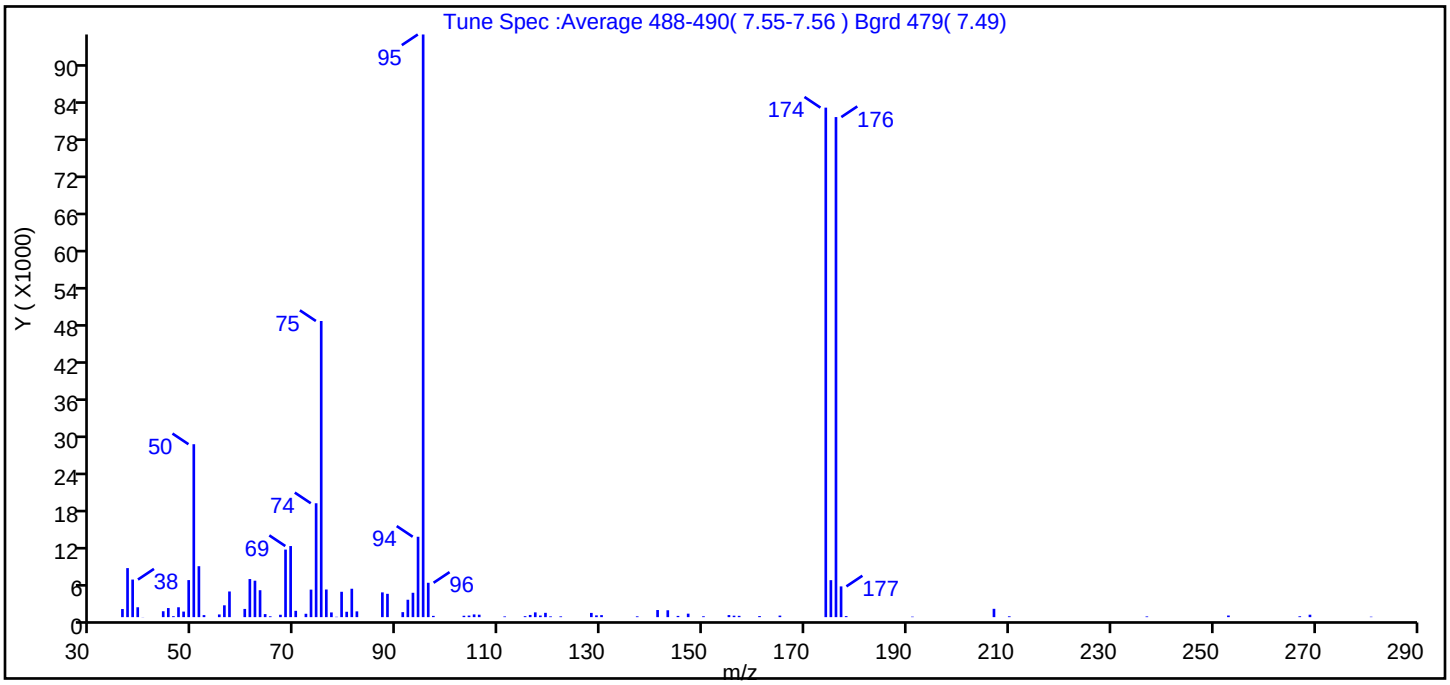
BFB_WRK_00072 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35498.D
Injection Date: 27-Aug-2018 14:53:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	29.7
75	30 to 60% of m/z 95	50.8
96	5 to 9% of m/z 95	5.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	87.4
175	5 to 9% of m/z 174	6.3 (7.3)
176	Greater than 95% but less than 101% of m/z 174	85.8 (98.1)
177	5 to 9% of m/z 176	5.3 (6.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35498.D\P-8260H2O.rslt\spectra.d
Injection Date: 27-Aug-2018 14:53:30
Spectrum: Tune Spec :Average 488-490(7.55-7.56) Bgrd 479(7.49)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1315	65.00	133	95.00	94424	147.00	566
37.00	7948	67.00	385	96.00	5569	150.00	141
38.00	6090	68.00	10948	97.00	206	155.00	334
39.00	1601	69.00	11521	103.00	225	156.00	236
40.00	22	70.00	1026	104.00	255	157.00	212
44.00	957	72.00	547	105.00	443	161.00	170
45.00	1474	73.00	4462	106.00	397	165.00	249
46.00	154	74.00	18456	111.00	117	174.00	82568
47.00	1602	75.00	47992	115.00	157	175.00	5994
48.00	901	76.00	4480	116.00	354	176.00	81040
49.00	6003	77.00	764	117.00	773	177.00	4983
50.00	28024	78.00	58	118.00	260	178.00	168
51.00	8255	79.00	4110	119.00	698	191.00	80
52.00	329	80.00	873	120.00	123	207.00	1350
55.00	436	81.00	4603	122.00	123	210.00	136
56.00	1918	82.00	938	128.00	687	237.00	117
57.00	4159	87.00	4013	129.00	286	253.00	263
60.00	1331	88.00	3780	130.00	327	267.00	140
61.00	6174	91.00	810	137.00	132	269.00	394
62.00	5907	92.00	2820	141.00	1154	281.00	72
63.00	4364	93.00	3950	143.00	1116		
64.00	494	94.00	13028	145.00	201		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35780.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Sep-2018 20:07:30	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0074461-003				
Operator ID:	RB	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	10-Sep-2018 11:35:20	Calib Date:	27-Aug-2018 22:18:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK013				
First Level Reviewer: chumongkolratn		Date:	10-Sep-2018 11:35:20		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.554	7.554	0.000	0	107447	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

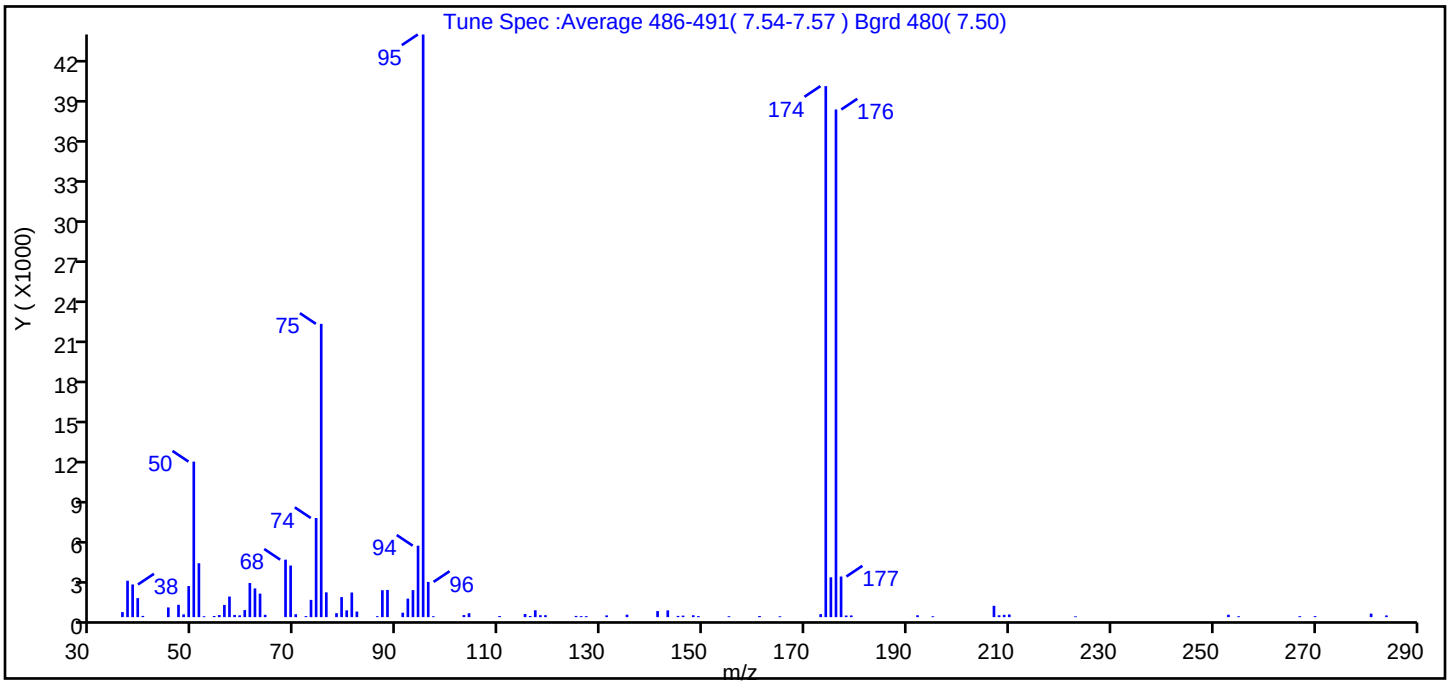
BFB_WRK_00078 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35780.D
Injection Date: 06-Sep-2018 20:07:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: RB ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.7
75	30 to 60% of m/z 95	50.3
96	5 to 9% of m/z 95	6.0
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	91.1
175	5 to 9% of m/z 174	6.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	87.1 (95.6)
177	5 to 9% of m/z 176	7.0 (8.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35780.D\P-8260H2O.rslt\spectra.d
Injection Date: 06-Sep-2018 20:07:30
Spectrum: Tune Spec :Average 486-491(7.54-7.57) Bgrd 480(7.50)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	379	64.00	174	96.00	2643	161.00	85
37.00	2731	68.00	4309	97.00	68	165.00	64
38.00	2449	69.00	3869	103.00	157	173.00	225
39.00	1428	70.00	217	104.00	294	174.00	39816
40.00	94	72.00	78	110.00	81	175.00	2986
45.00	728	73.00	1295	115.00	237	176.00	38064
47.00	926	74.00	7433	116.00	87	177.00	3047
48.00	205	75.00	21992	117.00	517	178.00	123
49.00	2331	76.00	1859	118.00	146	179.00	127
50.00	11663	78.00	299	119.00	147	192.00	140
51.00	4040	79.00	1503	125.00	92	195.00	66
52.00	69	80.00	510	126.00	76	207.00	850
54.00	88	81.00	1847	127.00	76	208.00	142
55.00	157	82.00	419	131.00	131	209.00	171
56.00	914	86.00	72	135.00	186	210.00	201
57.00	1545	87.00	2020	141.00	457	223.00	62
58.00	166	88.00	2040	143.00	508	253.00	179
59.00	136	91.00	335	145.00	94	255.00	68
60.00	531	92.00	1389	146.00	114	267.00	73
61.00	2557	93.00	2025	148.00	143	270.00	76
62.00	2152	94.00	5357	149.00	78	281.00	263
63.00	1764	95.00	43688	155.00	68	284.00	129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-433198/8

Matrix: Water | Lab File ID: P35786.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/06/2018 23:16

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.: 433198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.41
108-88-3	Toluene	ND		1.0	0.51
100-41-4	Ethylbenzene	ND		1.0	0.74
1330-20-7	Xylenes, Total	ND		2.0	0.66
STL00431	Total BTEX	ND		2.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35786.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Sep-2018 23:16:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0074461-008
Operator ID: RB Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Sep-2018 23:34:09 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: baroner Date: 06-Sep-2018 23:47:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	98	186428	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	87	410475	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	96	461832	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	93	263353	25.0	26.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.996	9.990	0.006	0	160422	25.0	24.3	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	93	959678	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.787	0.000	92	333067	25.0	26.8	
10 Dichlorodifluoromethane	85		4.247					ND	
15 Chlorodifluoromethane	51		4.283					ND	
11 Chloromethane	50		4.672					ND	
17 Vinyl chloride	62		4.855					ND	
144 Butadiene	54		4.898					ND	
12 Bromomethane	94		5.488					ND	
13 Chloroethane	64		5.615					ND	
19 Dichlorofluoromethane	67		5.901					ND	
14 Trichlorofluoromethane	101		5.962					ND	
141 Ethanol	45		6.217					ND	
20 Ethyl ether	59		6.315					ND	
26 Propene oxide	58		6.497					ND	
22 Acrolein	56		6.625					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.637					ND	
25 1,1-Dichloroethene	96		6.729					ND	
24 Acetone	43		6.808					ND	
23 Isopropyl alcohol	45		6.911					ND	
18 Iodomethane	142		7.027					ND	
27 Carbon disulfide	76		7.124					ND	U
30 Methyl acetate	43		7.173					ND	
28 3-Chloro-1-propene	41		7.197					ND	U
29 Acetonitrile	40		7.246					ND	
31 Methylene Chloride	84		7.392					ND	
33 2-Methyl-2-propanol	59		7.416					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		7.605					ND	
35 trans-1,2-Dichloroethene	96		7.696					ND	
34 Acrylonitrile	53		7.732					ND	
36 Hexane	57		7.897					ND	
37 Isopropyl ether	45		8.122					ND	
38 Vinyl acetate	43		8.195					ND	
39 1,1-Dimethoxyethane	75		8.243					ND	
40 1,1-Dichloroethane	63		8.250					ND	
41 2-Chloro-1,3-butadiene	53		8.322					ND	
42 Tert-butyl ethyl ether	59		8.566					ND	
46 Ethyl acetate	43		8.894					ND	
44 2-Butanone (MEK)	43		8.931					ND	
45 2,2-Dichloropropane	77		8.949					ND	
43 cis-1,2-Dichloroethene	96		8.961					ND	
47 Propionitrile	54		9.095					ND	
48 Methacrylonitrile	41		9.247					ND	
50 Chlorobromomethane	128		9.296					ND	
51 Tetrahydrofuran	42		9.302					ND	
49 Chloroform	83		9.326					ND	
52 1,1,1-Trichloroethane	97		9.564					ND	
54 Cyclohexane	56		9.600					ND	
66 2-Methylthiophene	97		9.687					ND	
56 1,1-Dichloropropene	75		9.740					ND	
53 Isobutyl alcohol	43		9.746					ND	U
55 Carbon tetrachloride	117		9.752					ND	
140 t-Amyl alcohol	59		9.868					ND	
67 3-Methylthiophene	97		9.894					ND	
146 Isooctane	57		9.928					ND	
58 Tert-amyl methyl ether	73		9.995					ND	
57 Benzene	78		10.038					ND	
60 1,2-Dichloroethane	62		10.093					ND	
59 n-Heptane	43		10.099					ND	
1 1,4-Difluorobenzene	114		10.415					ND	
61 n-Butanol	56		10.555					ND	
145 Ethyl acrylate	55		10.774					ND	
62 Trichloroethene	95		10.786					ND	
64 Methylcyclohexane	83		10.987					ND	
65 Methyl methacrylate	41		11.072					ND	
63 1,2-Dichloropropane	63		11.127					ND	
68 1,4-Dioxane	88		11.249					ND	
69 Dibromomethane	93		11.334					ND	
70 Dichlorobromomethane	83		11.468					ND	
71 2-Chloroethyl vinyl ether	63		11.717					ND	
72 2-Nitropropane	43		11.766					ND	
74 Epichlorohydrin	57		11.918					ND	
73 cis-1,3-Dichloropropene	75		11.997					ND	
75 4-Methyl-2-pentanone (MIBK	43		12.101					ND	
76 Toluene	92		12.417					ND	
77 Ethyl methacrylate	69		12.636					ND	
78 trans-1,3-Dichloropropene	75		12.709					ND	
79 1,1,2-Trichloroethane	83		13.001					ND	
80 Tetrachloroethene	166		13.147					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
83 2-Hexanone	43		13.189					ND	
82 1,3-Dichloropropane	76		13.232					ND	
149 n-Butyl acetate	43		13.244					ND	
81 Chlorodibromomethane	129		13.573					ND	
85 Ethylene Dibromide	107		13.773					ND	
84 3-Chlorobenzotrifluoride	180		14.114					ND	
139 1-Chlorohexane	55		14.126					ND	
86 4-Chlorobenzotrifluoride	180		14.187					ND	
87 Chlorobenzene	112		14.333					ND	
89 Ethylbenzene	91		14.376					ND	
88 1,1,1,2-Tetrachloroethane	131		14.412					ND	
90 m-Xylene & p-Xylene	106		14.510					ND	
93 o-Xylene	106		15.063					ND	
94 Styrene	104		15.088					ND	
91 2-Chlorobenzotrifluoride	180		15.367					ND	
92 Bromoform	173		15.471					ND	
95 Isopropylbenzene	105		15.489					ND	
96 Cyclohexanone	55		15.793					ND	
97 1,1,2,2-Tetrachloroethane	83		15.964					ND	
98 trans-1,4-Dichloro-2-buten	53		16.012					ND	
99 N-Propylbenzene	91		16.018					ND	
100 Bromobenzene	156		16.037					ND	
101 1,2,3-Trichloropropane	110		16.055					ND	
102 1,3,5-Trimethylbenzene	105		16.207					ND	
103 2-Chlorotoluene	126		16.225					ND	
104 3-Chlorotoluene	126		16.292					ND	
105 4-Chlorotoluene	126		16.353					ND	
106 tert-Butylbenzene	134		16.645					ND	
107 1,2,4-Trimethylbenzene	105		16.706					ND	
108 Pentachloroethane	167		16.785					ND	
109 sec-Butylbenzene	105		16.913					ND	
112 4-Isopropyltoluene	119		17.059					ND	
110 1,3-Dichlorobenzene	146		17.174					ND	
113 1,2,3-Trimethylbenzene	105		17.265					ND	
114 Dicyclopentadiene	66		17.283					ND	U
111 1,4-Dichlorobenzene	146		17.284					ND	
143 Benzyl chloride	126		17.448					ND	
115 n-Butylbenzene	91		17.576					ND	U
116 1,2-Dichlorobenzene	146		17.776					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.817					ND	
118 1,3,5-Trichlorobenzene	180		18.993					ND	
119 1,2,4-Trichlorobenzene	180		19.912					ND	
120 Hexachlorobutadiene	225	20.034	20.033	0.001	90	4914		0.8686	
121 Naphthalene	128		20.356					ND	
122 1,2,3-Trichlorobenzene	180		20.727					ND	
142 2-Methylnaphthalene	142		22.290					ND	U
136 Propene oxide TIC	1		0.000					ND	
138 Ethylene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
S 123 1,2-Dichloroethene, 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 124 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 151 Trihalomethanes, Total	1		0.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 7 Ethylene oxide	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	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

P 8260 IS_00328	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00301	Amount Added:	1.25	Units: uL	Run Reagent

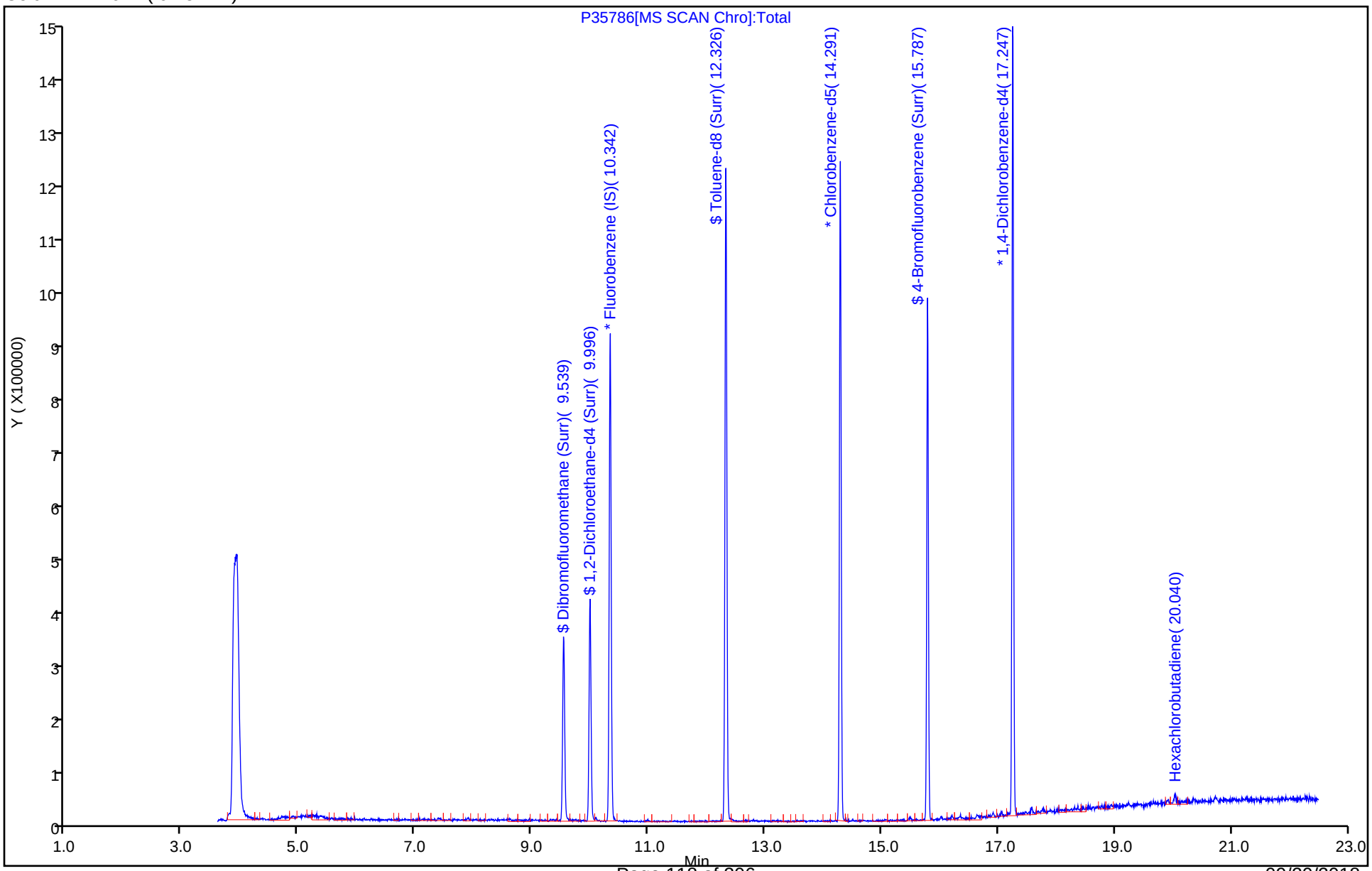
Report Date: 06-Sep-2018 23:47:41 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35786.D

Injection Date:	06-Sep-2018 23:16:30	Instrument ID:	HP5973P	Operator ID:	RB
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	P-8260H2O	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.: 480-141245-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-433198/6

Matrix: Water Lab File ID: P35784.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/06/2018 22:21

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.: 433198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	25.6		1.0	0.41
108-88-3	Toluene	25.2		1.0	0.51
100-41-4	Ethylbenzene	24.7		1.0	0.74
1330-20-7	Xylenes, Total	53.2		2.0	0.66
STL00431	Total BTEX	129		2.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35784.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Sep-2018 22:21:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0074461-006
Operator ID: RB Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Sep-2018 22:39:27 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: baroner Date: 06-Sep-2018 22:51:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	98	183535	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.290	14.291	-0.001	85	400490	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	95	481230	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	93	262317	25.0	27.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.995	9.990	0.005	0	157860	25.0	24.3	
$ 5 Toluene-d8 (Surr)	98	12.325	12.326	-0.001	94	947077	25.0	26.0	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.787	0.000	93	334479	25.0	27.6	
10 Dichlorodifluoromethane	85	4.253	4.247	0.006	98	377925	25.0	25.7	
11 Chloromethane	50	4.672	4.672	0.000	99	743870	25.0	25.6	
17 Vinyl chloride	62	4.861	4.855	0.006	98	471597	25.0	24.5	
144 Butadiene	54	4.903	4.898	0.005	94	484200	25.0	24.6	
12 Bromomethane	94	5.475	5.488	-0.013	91	257947	25.0	23.8	
13 Chloroethane	64	5.615	5.615	0.000	97	248256	25.0	24.5	
19 Dichlorofluoromethane	67	5.901	5.901	0.000	98	548491	25.0	22.0	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	98	456831	25.0	23.7	
20 Ethyl ether	59	6.321	6.315	0.006	97	317359	25.0	26.1	
22 Acrolein	56	6.619	6.625	-0.006	100	449213	125.0	217.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.637	-0.006	49	251373	25.0	27.1	
25 1,1-Dichloroethene	96	6.722	6.729	-0.007	93	254679	25.0	26.2	
24 Acetone	43	6.802	6.808	-0.006	98	716615	125.0	132.1	
18 Iodomethane	142	7.021	7.027	-0.006	98	527431	25.0	28.0	
27 Carbon disulfide	76	7.124	7.124	0.000	99	739604	25.0	24.1	
30 Methyl acetate	43	7.173	7.173	0.000	100	777296	50.0	47.9	
28 3-Chloro-1-propene	41	7.203	7.197	0.006	88	684813	25.0	26.2	
31 Methylene Chloride	84	7.392	7.392	0.000	90	300598	25.0	25.4	
33 2-Methyl-2-propanol	59	7.416	7.416	0.000	97	555380	250.0	280.0	
32 Methyl tert-butyl ether	73	7.605	7.605	0.000	97	805045	25.0	23.4	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	92	274395	25.0	25.2	
34 Acrylonitrile	53	7.726	7.732	-0.006	100	1897892	250.0	284.6	
36 Hexane	57	7.897	7.897	0.000	96	425527	25.0	26.0	
38 Vinyl acetate	43	8.195	8.195	0.000	96	2030010	50.0	66.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	8.249	8.250	-0.001	96	599176	25.0	25.2	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	97	1251540	125.0	137.4	
45 2,2-Dichloropropane	77	8.943	8.949	-0.006	91	345176	25.0	24.5	
43 cis-1,2-Dichloroethene	96	8.967	8.961	0.006	88	318948	25.0	25.4	
50 Chlorobromomethane	128	9.296	9.296	0.000	89	169788	25.0	27.1	
51 Tetrahydrofuran	42	9.308	9.302	0.006	93	334637	50.0	54.9	
49 Chloroform	83	9.326	9.326	0.000	94	472685	25.0	23.4	
52 1,1,1-Trichloroethane	97	9.564	9.564	0.000	98	404316	25.0	23.6	
54 Cyclohexane	56	9.600	9.600	0.000	94	545696	25.0	27.2	
56 1,1-Dichloropropene	75	9.734	9.740	-0.006	89	361147	25.0	24.8	
53 Isobutyl alcohol	43	9.752	9.746	0.006	94	774942	625.0	747.1	
55 Carbon tetrachloride	117	9.758	9.752	0.006	94	394009	25.0	24.6	
57 Benzene	78	10.032	10.038	-0.006	97	1095415	25.0	25.6	
60 1,2-Dichloroethane	62	10.087	10.093	-0.006	95	461707	25.0	21.4	
59 n-Heptane	43	10.093	10.099	-0.006	97	371639	25.0	27.2	
62 Trichloroethene	95	10.786	10.786	0.000	93	286251	25.0	24.9	
64 Methylcyclohexane	83	10.987	10.987	0.000	96	347365	25.0	26.7	
63 1,2-Dichloropropane	63	11.133	11.127	0.006	94	357760	25.0	27.8	
68 1,4-Dioxane	88	11.255	11.249	0.006	95	68334	500.0	572.4	
69 Dibromomethane	93	11.334	11.334	0.000	96	195281	25.0	24.7	
70 Dichlorobromomethane	83	11.462	11.468	-0.006	96	389777	25.0	25.2	
71 2-Chloroethyl vinyl ether	63	11.711	11.717	-0.006	89	146297	25.0	26.7	
73 cis-1,3-Dichloropropene	75	11.997	11.997	0.000	89	456483	25.0	25.8	
75 4-Methyl-2-pentanone (MIBK	43	12.100	12.101	0.000	98	2684696	125.0	126.8	
76 Toluene	92	12.417	12.417	0.000	98	722210	25.0	25.2	
77 Ethyl methacrylate	69	12.642	12.636	0.006	93	391301	25.0	25.3	
78 trans-1,3-Dichloropropene	75	12.715	12.709	0.006	97	443255	25.0	24.2	
79 1,1,2-Trichloroethane	83	12.995	13.001	-0.006	95	221458	25.0	24.6	
80 Tetrachloroethene	166	13.147	13.147	0.000	96	321473	25.0	26.1	
83 2-Hexanone	43	13.189	13.189	0.000	99	1957864	125.0	127.4	
82 1,3-Dichloropropane	76	13.232	13.232	0.000	96	441986	25.0	22.9	
81 Chlorodibromomethane	129	13.573	13.573	0.000	90	337593	25.0	24.4	
85 Ethylene Dibromide	107	13.773	13.773	0.000	100	298160	25.0	25.0	
87 Chlorobenzene	112	14.327	14.333	-0.006	97	850327	25.0	25.4	
89 Ethylbenzene	91	14.376	14.376	0.000	98	1342412	25.0	24.7	
88 1,1,1,2-Tetrachloroethane	131	14.412	14.412	0.000	95	331273	25.0	25.8	
90 m-Xylene & p-Xylene	106	14.509	14.510	-0.001	0	551854	25.0	26.6	
93 o-Xylene	106	15.063	15.063	0.000	97	548630	25.0	26.6	
94 Styrene	104	15.087	15.088	-0.001	95	962105	25.0	26.7	
92 Bromoform	173	15.471	15.471	0.000	95	239207	25.0	26.5	
95 Isopropylbenzene	105	15.489	15.489	0.000	96	1340586	25.0	22.7	
97 1,1,2,2-Tetrachloroethane	83	15.963	15.964	-0.001	95	372965	25.0	22.1	
98 trans-1,4-Dichloro-2-buten	53	16.012	16.012	0.000	78	162119	25.0	24.0	
99 N-Propylbenzene	91	16.018	16.018	0.000	98	1541815	25.0	22.5	
100 Bromobenzene	156	16.036	16.037	-0.001	92	394154	25.0	22.9	
101 1,2,3-Trichloropropane	110	16.061	16.055	0.006	81	120385	25.0	21.3	
102 1,3,5-Trimethylbenzene	105	16.207	16.207	0.000	95	1143672	25.0	22.7	
103 2-Chlorotoluene	126	16.225	16.225	0.000	96	359045	25.0	23.3	
105 4-Chlorotoluene	126	16.353	16.353	0.000	97	373949	25.0	24.0	
106 tert-Butylbenzene	134	16.645	16.645	0.000	94	237255	25.0	22.7	
107 1,2,4-Trimethylbenzene	105	16.706	16.706	0.000	97	1209060	25.0	22.8	
109 sec-Butylbenzene	105	16.912	16.913	-0.001	94	1290965	25.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	17.058	17.059	-0.001	98	1185796	25.0	23.6	
110 1,3-Dichlorobenzene	146	17.180	17.174	0.006	99	750703	25.0	23.8	
111 1,4-Dichlorobenzene	146	17.284	17.284	0.000	95	767688	25.0	23.0	
115 n-Butylbenzene	91	17.576	17.576	0.000	98	946987	25.0	22.7	
116 1,2-Dichlorobenzene	146	17.776	17.776	0.000	98	742120	25.0	23.8	
117 1,2-Dibromo-3-Chloropropan	75	18.817	18.817	0.000	83	79859	25.0	17.7	
119 1,2,4-Trichlorobenzene	180	19.918	19.912	0.006	94	473672	25.0	24.2	
120 Hexachlorobutadiene	225	20.039	20.033	0.006	97	155226	25.0	26.3	
121 Naphthalene	128	20.356	20.356	0.000	97	1461460	25.0	24.6	
122 1,2,3-Trichlorobenzene	180	20.727	20.727	0.000	96	461545	25.0	24.5	

Reagents:

8260 CORP mix_00135	Amount Added: 12.50	Units: uL	
GAS CORP mix_00300	Amount Added: 12.50	Units: uL	
P 8260 IS_00328	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00301	Amount Added: 1.25	Units: uL	Run Reagent

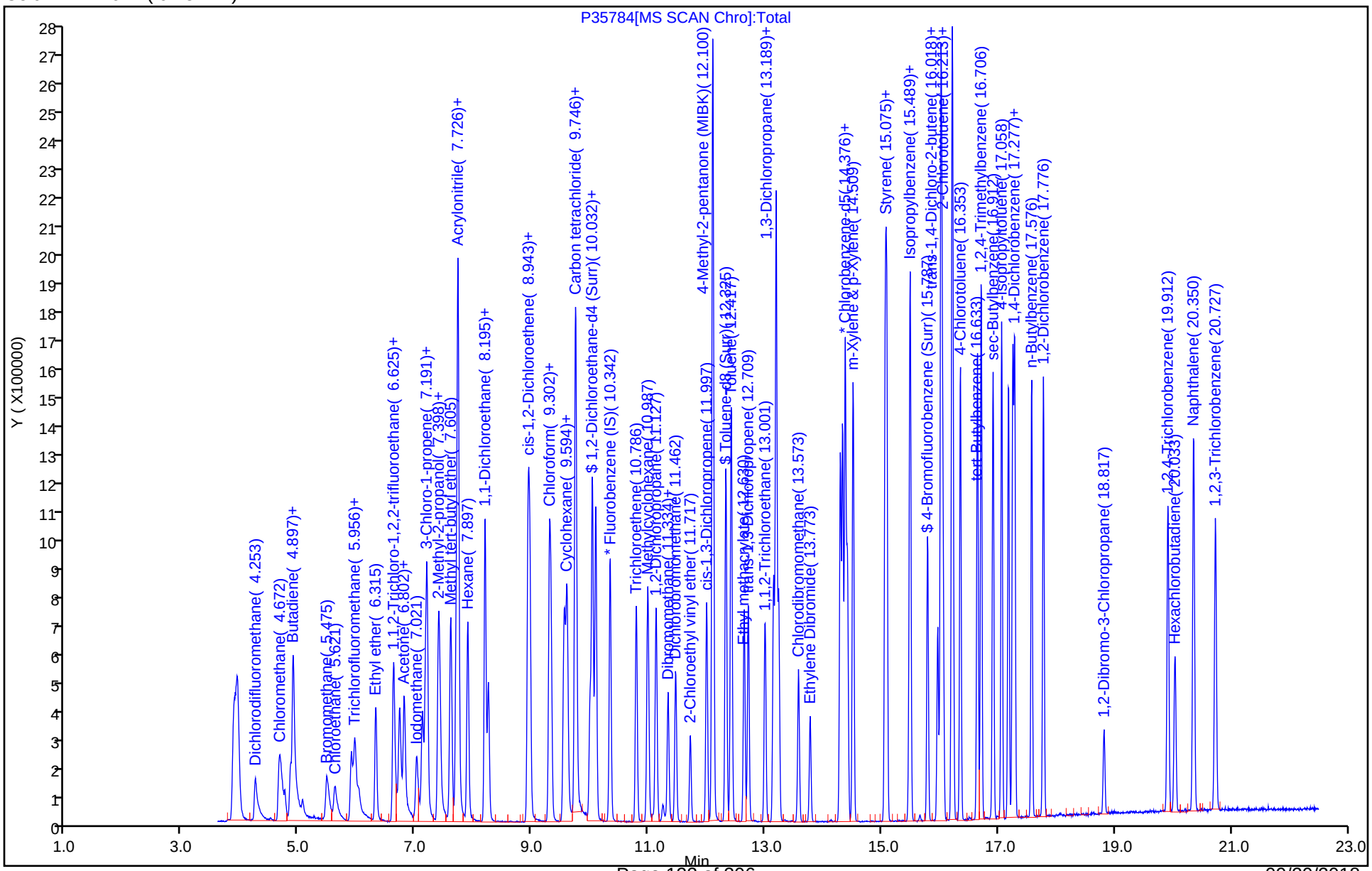
Report Date: 06-Sep-2018 22:51:58 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35784.D

Injection Date:	06-Sep-2018 22:21:30	Instrument ID:	HP5973P	Operator ID:	RB
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	P-8260H2O	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.: 480-141245-1

SDG No.:

Client Sample ID: MW-17 MS | Lab Sample ID: 480-141245-4 MS

Matrix: Water | Lab File ID: P35801.D

Analysis Method: 8260C | Date Collected: 09/05/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/07/2018 06:26

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.: 433198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	29.9		1.0	0.41
108-88-3	Toluene	26.5		1.0	0.51
100-41-4	Ethylbenzene	26.5		1.0	0.74
1330-20-7	Xylenes, Total	56.2		2.0	0.66
STL00431	Total BTEX	139		2.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35801.D
Lims ID: 480-141245-C-4 MS
Client ID: MW-17
Sample Type: MS
Inject. Date: 07-Sep-2018 06:26:30 ALS Bottle#: 22 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-141245-C-4 MS
Misc. Info.: 480-0074461-017
Operator ID: RB Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Sep-2018 13:27:16 Calib Date: 27-Aug-2018 22:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: farrellr Date: 07-Sep-2018 13:43:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	98	152659	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.290	14.291	-0.001	85	364262	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	95	436786	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	93	232200	25.0	28.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.995	9.990	0.005	0	134797	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	12.325	12.326	-0.001	93	843089	25.0	25.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.787	0.000	92	306833	25.0	27.8	
57 Benzene	78	10.032	10.038	-0.006	97	1065222	25.0	29.9	
76 Toluene	92	12.417	12.429	0.000	98	690694	25.0	26.5	
89 Ethylbenzene	91	14.376	14.363	0.000	98	1307363	25.0	26.5	
90 m-Xylene & p-Xylene	106	14.509	14.516	-0.001	0	535435		28.4	
93 o-Xylene	106	15.063	15.063	0.000	97	521716		27.8	
S 125 Total BTEX	1				0			139.1	
S 126 Xylenes, Total	1				0			56.2	

Reagents:

GAS CORP mix_00300	Amount Added: 12.50	Units: uL	
8260 CORP mix_00135	Amount Added: 12.50	Units: uL	
P 8260 IS_00328	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00301	Amount Added: 1.25	Units: uL	Run Reagent

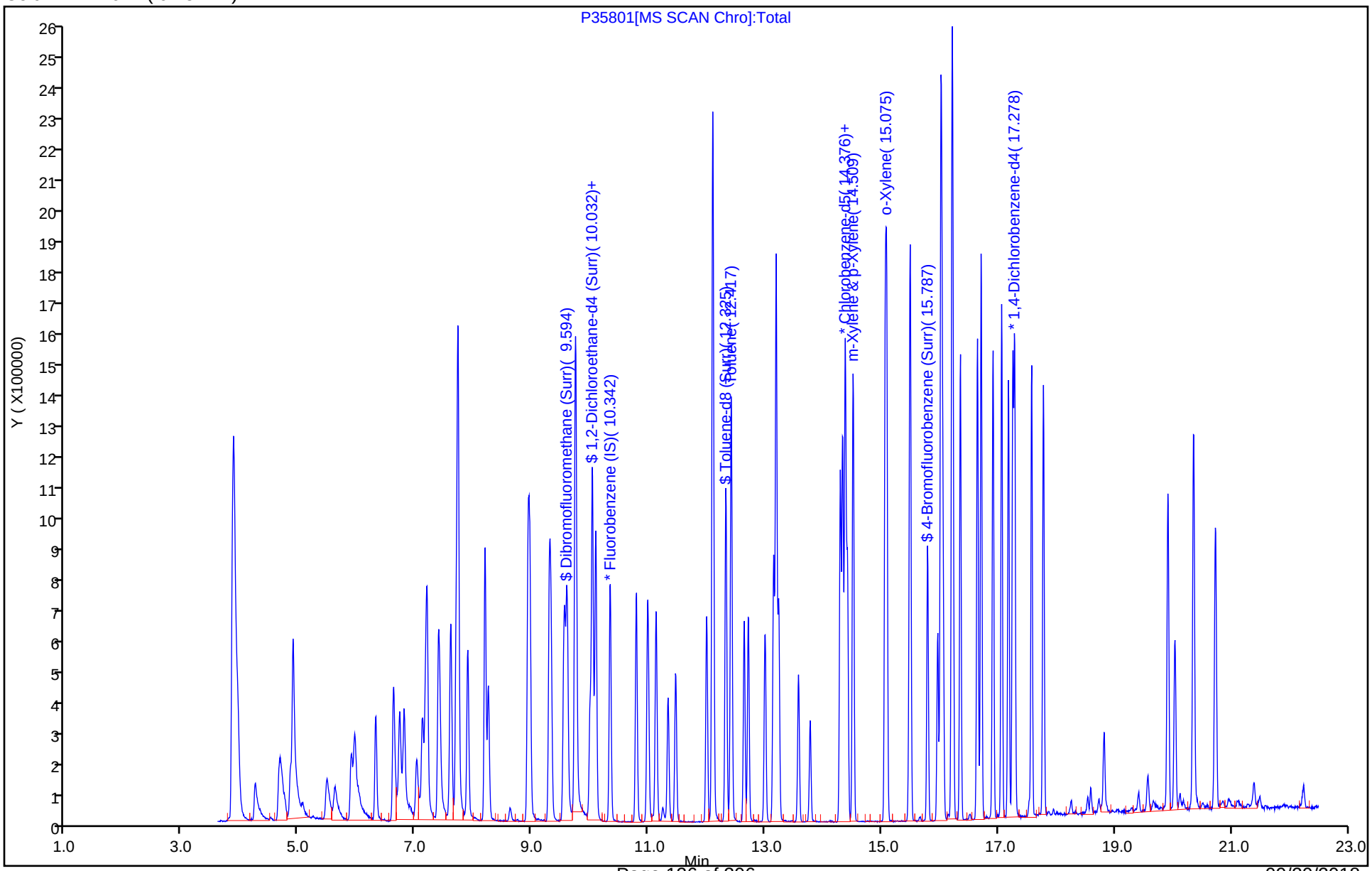
Report Date: 07-Sep-2018 13:43:41 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35801.D

Injection Date:	07-Sep-2018 06:26:30	Instrument ID:	HP5973P	Operator ID:	RB
Lims ID:	480-141245-C-4 MS			Worklist Smp#:	17
Client ID:	MW-17				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	P-8260H2O	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.: 480-141245-1

SDG No.:

Client Sample ID: MW-17 MSD | Lab Sample ID: 480-141245-4 MSD

Matrix: Water | Lab File ID: P35802.D

Analysis Method: 8260C | Date Collected: 09/05/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/07/2018 06:53

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.: 433198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	28.3		1.0	0.41
108-88-3	Toluene	25.5		1.0	0.51
100-41-4	Ethylbenzene	24.6		1.0	0.74
1330-20-7	Xylenes, Total	53.9		2.0	0.66
STL00431	Total BTEX	132		2.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	115		73-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35802.D				
Lims ID:	480-141245-C-4 MSD				
Client ID:	MW-17				
Sample Type:	MSD				
Inject. Date:	07-Sep-2018 06:53:30	ALS Bottle#:	23	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-141245-C-4 MSD				
Misc. Info.:	480-0074461-018				
Operator ID:	RB	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	07-Sep-2018 13:27:16	Calib Date:	27-Aug-2018 22:18:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20180827-74204.b\P35514.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0303				
First Level Reviewer: farrellr		Date:	07-Sep-2018 13:43:49		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.342	10.342	0.000	99	163691	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.291	14.291	0.000	85	379669	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.253	17.253	0.000	94	460340	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.545	9.539	0.006	93	241627	25.0	27.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.996	9.990	0.006	0	141281	25.0	24.4	
$ 5 Toluene-d8 (Surr)	98	12.326	12.326	0.000	93	890484	25.0	25.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.787	0.000	92	329212	25.0	28.6	
57 Benzene	78	10.032	10.038	-0.006	97	1080487	25.0	28.3	
76 Toluene	92	12.417	12.429	0.000	98	694533	25.0	25.5	
89 Ethylbenzene	91	14.376	14.363	0.000	98	1264792	25.0	24.6	
90 m-Xylene & p-Xylene	106	14.510	14.516	0.000	0	532022		27.1	
93 o-Xylene	106	15.063	15.063	0.000	97	524810		26.8	
S 125 Total BTEX	1				0			132.3	
S 126 Xylenes, Total	1				0			53.9	

Reagents:

GAS CORP mix_00300	Amount Added: 12.50	Units: uL	
8260 CORP mix_00135	Amount Added: 12.50	Units: uL	
P 8260 IS_00328	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00301	Amount Added: 1.25	Units: uL	Run Reagent

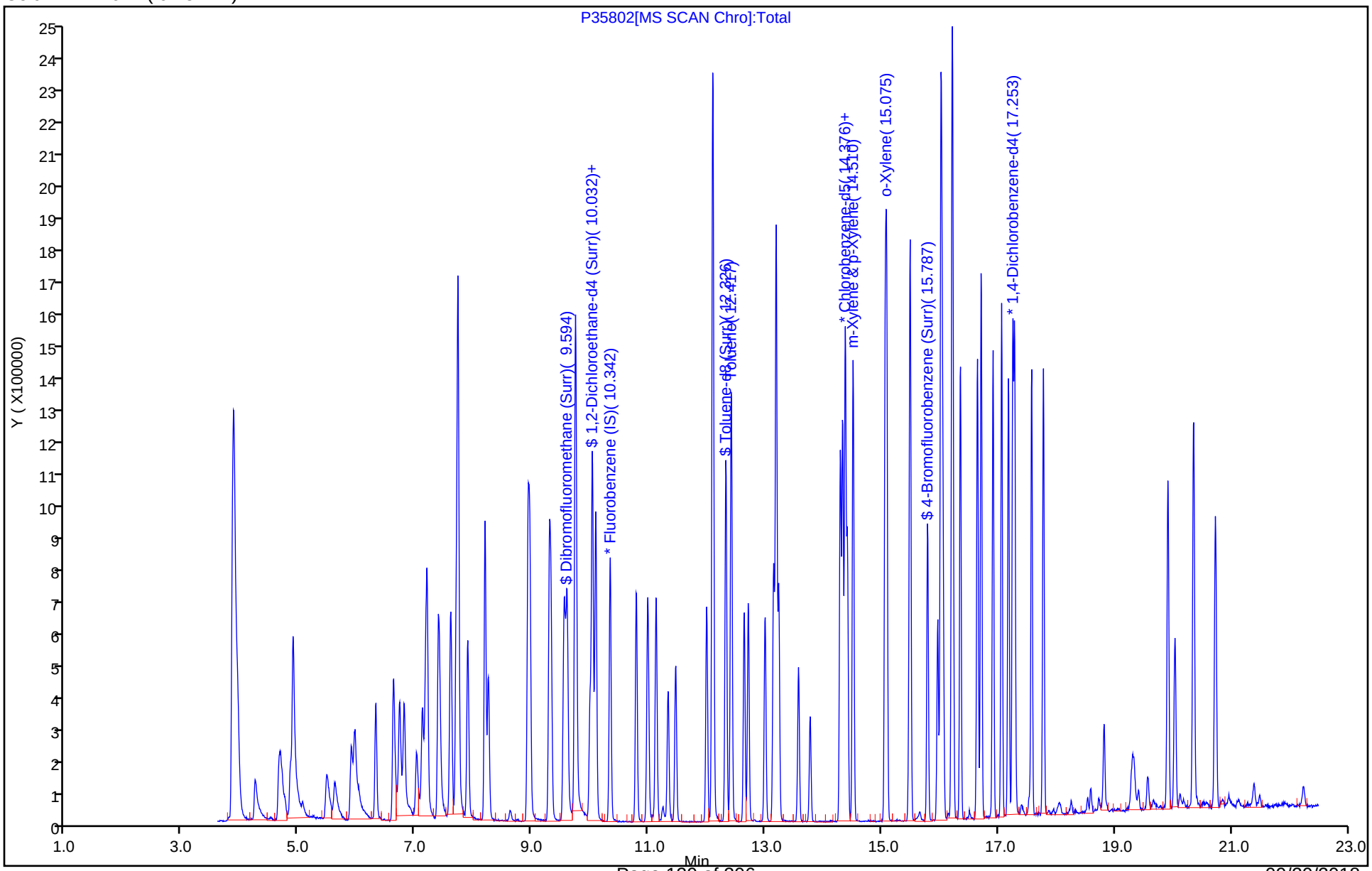
Report Date: 07-Sep-2018 13:43:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20180906-74461.b\P35802.D

Injection Date:	07-Sep-2018 06:53:30	Instrument ID:	HP5973P	Operator ID:	RB
Lims ID:	480-141245-C-4 MSD			Worklist Smp#:	18
Client ID:	MW-17				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Instrument ID: HP5973P Start Date: 08/27/2018 14:53

Analysis Batch Number: 431591 End Date: 08/28/2018 00:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-431591/4		08/27/2018 14:53	1	P35498.D	ZB-624 (60) 0.25(mm)
IC 480-431591/6		08/27/2018 15:51	1	P35500.D	ZB-624 (60) 0.25(mm)
IC 480-431591/7		08/27/2018 16:19	1	P35501.D	ZB-624 (60) 0.25(mm)
IC 480-431591/8		08/27/2018 16:46	1	P35502.D	ZB-624 (60) 0.25(mm)
IC 480-431591/9		08/27/2018 17:14	1	P35503.D	ZB-624 (60) 0.25(mm)
ICIS 480-431591/10		08/27/2018 17:41	1	P35504.D	ZB-624 (60) 0.25(mm)
IC 480-431591/11		08/27/2018 18:09	1	P35505.D	ZB-624 (60) 0.25(mm)
IC 480-431591/12		08/27/2018 18:37	1	P35506.D	ZB-624 (60) 0.25(mm)
IC 480-431591/14		08/27/2018 19:32	1		ZB-624 (60) 0.25(mm)
IC 480-431591/15		08/27/2018 20:00	1		ZB-624 (60) 0.25(mm)
IC 480-431591/16		08/27/2018 20:27	1		ZB-624 (60) 0.25(mm)
IC 480-431591/17		08/27/2018 20:55	1		ZB-624 (60) 0.25(mm)
IC 480-431591/18		08/27/2018 21:23	1		ZB-624 (60) 0.25(mm)
IC 480-431591/19		08/27/2018 21:50	1		ZB-624 (60) 0.25(mm)
IC 480-431591/20		08/27/2018 22:18	1		ZB-624 (60) 0.25(mm)
MDLV 480-431591/22		08/27/2018 23:13	1		ZB-624 (60) 0.25(mm)
MDLV 480-431591/23		08/27/2018 23:41	1		ZB-624 (60) 0.25(mm)
ICV 480-431591/24		08/28/2018 00:08	1		ZB-624 (60) 0.25(mm)
ICV 480-431591/25		08/28/2018 00:36	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Instrument ID: HP5973P Start Date: 09/06/2018 20:07

Analysis Batch Number: 433198 End Date: 09/07/2018 06:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-433198/3		09/06/2018 20:07	1	P35780.D	ZB-624 (60) 0.25(mm)
CCV 480-433198/5		09/06/2018 21:04	1		ZB-624 (60) 0.25(mm)
CCVIS 480-433198/10		09/06/2018 21:32	1	P35783.D	ZB-624 (60) 0.25(mm)
LCS 480-433198/6		09/06/2018 22:21	1	P35784.D	ZB-624 (60) 0.25(mm)
RL 480-433198/7		09/06/2018 22:49	1		ZB-624 (60) 0.25(mm)
MB 480-433198/8		09/06/2018 23:16	1	P35786.D	ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 00:03	5		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 00:31	4		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 00:58	4		ZB-624 (60) 0.25(mm)
480-141245-4		09/07/2018 01:25	1	P35790.D	ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 01:52	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 02:20	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 02:47	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 03:15	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 03:42	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 04:09	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 04:37	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 05:04	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 05:31	1		ZB-624 (60) 0.25(mm)
ZZZZZ		09/07/2018 05:58	1		ZB-624 (60) 0.25(mm)
480-141245-4 MS		09/07/2018 06:26	1	P35801.D	ZB-624 (60) 0.25(mm)
480-141245-4 MSD		09/07/2018 06:53	1	P35802.D	ZB-624 (60) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Batch Number: 433198 Batch Start Date: 09/06/18 20:07 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00135	BFB_WRK 00078	GAS CORP mix 00300
BFB 480-433198/3		8260C		1 uL	1 uL			1 uL	
LCS 480-433198/6		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-433198/8		8260C		5 mL	5 mL				
CCVIS 480-433198/10		8260C		5 mL	5 mL		12.5 uL		12.5 uL
480-141245-C-4	MW-17	8260C	T	5 mL	5 mL	<2 SU			
480-141245-C-4 MS	MW-17	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-141245-C-4 MSD	MW-17	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	P 8260 IS 00328	P 8260 Surr. 00301				
BFB 480-433198/3		8260C							
LCS 480-433198/6		8260C		1.25 uL	1.25 uL				
MB 480-433198/8		8260C		1.25 uL	1.25 uL				
CCVIS 480-433198/10		8260C		1.25 uL	1.25 uL				
480-141245-C-4	MW-17	8260C	T	1.25 uL	1.25 uL				
480-141245-C-4 MS	MW-17	8260C	T	1.25 uL	1.25 uL				
480-141245-C-4 MSD	MW-17	8260C	T	1.25 uL	1.25 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHd14 #
MW-17	480-141245-4	87	103	98
	MB 480-433136/1-A	86	102	113
	LCS 480-433136/2-A	84	99	104
MW-17 MS	480-141245-4 MS	66	78	37 X
MW-17 MSD	480-141245-4 MSD	88	97	93

	QC LIMITS
NBZ = Nitrobenzene-d5 (Surr)	46-120
FBP = 2-Fluorobiphenyl	48-120
TPHd14 = p-Terphenyl-d14 (Surr)	59-136

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y019617.D

Lab ID: LCS 480-433136/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	32.0	32.9	103	60-120	
Acenaphthylene	32.0	33.0	103	63-120	
Anthracene	32.0	35.3	110	67-120	
Benzo[a]anthracene	32.0	35.3	110	70-121	
Benzo[a]pyrene	32.0	35.1	110	60-123	
Benzo[b]fluoranthene	32.0	36.2	113	66-126	
Benzo[g,h,i]perylene	32.0	37.6	117	66-150	
Benzo[k]fluoranthene	32.0	35.2	110	65-124	
Chrysene	32.0	35.6	111	69-120	
Dibenz(a,h)anthracene	32.0	37.7	118	65-135	
Fluoranthene	32.0	38.0	119	69-126	
Fluorene	32.0	34.7	109	66-120	
Indeno[1,2,3-cd]pyrene	32.0	36.8	115	69-146	
Naphthalene	32.0	30.7	96	57-120	
Phenanthrene	32.0	34.3	107	68-120	
Pyrene	32.0	34.7	108	70-125	
2-Methylnaphthalene	32.0	32.3	101	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y019618.D

Lab ID: 480-141245-4 MS Client ID: MW-17 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	32.0	24	44.1	62	48-120	
Acenaphthylene	32.0	ND	27.6	86	63-120	
Anthracene	32.0	0.50 J	26.8	82	65-122	
Benzo[a]anthracene	32.0	ND	18.1	56	43-124	
Benzo[a]pyrene	32.0	ND	16.7	52	23-125	
Benzo[b]fluoranthene	32.0	ND	16.9	53	27-127	
Benzo[g,h,i]perylene	32.0	ND	16.5	51	16-147	
Benzo[k]fluoranthene	32.0	ND	17.0	53	20-124	
Chrysene	32.0	ND	17.6	55	44-122	
Dibenz(a,h)anthracene	32.0	ND	16.3	51	16-139	
Fluoranthene	32.0	0.61 J	25.7	78	63-129	
Fluorene	32.0	8.8	34.3	80	62-120	
Indeno[1,2,3-cd]pyrene	32.0	ND	16.2	51	16-140	
Naphthalene	32.0	ND	27.1	85	45-120	
Phenanthrene	32.0	ND	26.7	83	65-122	
Pyrene	32.0	0.52 J	24.3	74	58-128	
2-Methylnaphthalene	32.0	ND	28.9	90	34-140	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y019619.D

Lab ID: 480-141245-4 MSD Client ID: MW-17 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	32.0	52.5	89	17	24	48-120	
Acenaphthylene	32.0	32.4	101	16	18	63-120	
Anthracene	32.0	34.3	106	25	15	65-122	F2
Benzo[a]anthracene	32.0	34.2	107	62	15	43-124	F2
Benzo[a]pyrene	32.0	32.9	103	65	15	23-125	F2
Benzo[b]fluoranthene	32.0	34.6	108	69	15	27-127	F2
Benzo[g,h,i]perylene	32.0	33.9	106	69	15	16-147	F2
Benzo[k]fluoranthene	32.0	32.9	103	64	22	20-124	F2
Chrysene	32.0	34.4	108	64	15	44-122	F2
Dibenz(a,h)anthracene	32.0	33.9	106	70	15	16-139	F2
Fluoranthene	32.0	37.3	115	37	15	63-129	F2
Fluorene	32.0	42.4	105	21	15	62-120	F2
Indeno[1,2,3-cd]pyrene	32.0	33.5	105	69	15	16-140	F2
Naphthalene	32.0	30.4	95	12	29	45-120	
Phenanthrene	32.0	33.0	103	21	15	65-122	F2
Pyrene	32.0	34.5	106	35	19	58-128	F2
2-Methylnaphthalene	32.0	31.6	99	9	21	34-140	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab File ID: Y019616.D Lab Sample ID: MB 480-433136/1-A

Matrix: Water Date Extracted: 09/06/2018 14:08

Instrument ID: HP5973Y Date Analyzed: 09/10/2018 18:22

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-433136/2-A	Y019617.D	09/10/2018 18:51
MW-17 MS	480-141245-4 MS	Y019618.D	09/10/2018 19:20
MW-17 MSD	480-141245-4 MSD	Y019619.D	09/10/2018 19:48
MW-17	480-141245-4	Y019620.D	09/10/2018 20:17

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab File ID: Y019354.D DFTPP Injection Date: 08/28/2018

Instrument ID: HP5973Y DFTPP Injection Time: 15:29

Analysis Batch No.: 431821

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	35.4	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	37.8	
70	Less than 2% of mass 69	0.2	(0.7) 1
127	10-80% of Base Peak	46.6	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	24.0	
365	Greater than 1% of mass 198	3.1	
441	present but less than 24% of mass 442	11.5	(16.6) 2
442	Greater than 50% of mass 198	69.1	
443	15-24% of mass 442	13.4	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-431821/3	Y019355.D	08/28/2018	16:00
	IC 480-431821/4	Y019356.D	08/28/2018	16:28
	IC 480-431821/5	Y019357.D	08/28/2018	16:57
	IC 480-431821/6	Y019358.D	08/28/2018	17:25
	ICIS 480-431821/7	Y019359.D	08/28/2018	17:54
	IC 480-431821/8	Y019360.D	08/28/2018	18:22
	IC 480-431821/9	Y019361.D	08/28/2018	18:51
	IC 480-431821/10	Y019362.D	08/28/2018	19:19

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab File ID: Y019611.D DFTPP Injection Date: 09/10/2018

Instrument ID: HP5973Y DFTPP Injection Time: 15:58

Analysis Batch No.: 433584

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	32.9	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	35.5	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	44.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.2	
275	10-60% of Base Peak	24.8	
365	Greater than 1% of mass 198	3.1	
441	present but less than 24% of mass 442	10.4	(16.4) 2
442	Greater than 50% of mass 198	63.4	
443	15-24% of mass 442	12.1	(19.1) 2

1-Value is % mass 69 2-Value is % mass 442

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 480-433584/3	Y019612.D	09/10/2018	16:27
	MB 480-433136/1-A	Y019616.D	09/10/2018	18:22
	LCS 480-433136/2-A	Y019617.D	09/10/2018	18:51
MW-17 MS	480-141245-4 MS	Y019618.D	09/10/2018	19:20
MW-17 MSD	480-141245-4 MSD	Y019619.D	09/10/2018	19:48
MW-17	480-141245-4	Y019620.D	09/10/2018	20:17

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Sample No.: ICIS 480-431821/7 Date Analyzed: 08/28/2018 17:54

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y019359.D Heated Purge: (Y/N) N

Calibration ID: 34649

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		432652	6.64	1545861	7.74	857031	9.23
UPPER LIMIT		865304	7.14	3091722	8.24	1714062	9.73
LOWER LIMIT		216326	6.14	772931	7.24	428516	8.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-433584/3		430160	6.61	1478596	7.70	862610	9.19

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Sample No.: ICIS 480-431821/7 Date Analyzed: 08/28/2018 17:54

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y019359.D Heated Purge: (Y/N) N

Calibration ID: 34649

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1613441	10.49	1607183	13.28	1550284	15.56
UPPER LIMIT		3226882	10.99	3214366	13.78	3100568	16.06
LOWER LIMIT		806721	9.99	803592	12.78	775142	15.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-433584/3		1689324	10.45	1764372	13.22	1761144	15.49

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Sample No.: CCVIS 480-433584/3 Date Analyzed: 09/10/2018 16:27

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y019612.D Heated Purge: (Y/N) N

Calibration ID: 34722

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		430160	6.61	1478596	7.70	862610	9.19
UPPER LIMIT		860320	7.11	2957192	8.20	1725220	9.69
LOWER LIMIT		215080	6.11	739298	7.20	431305	8.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-433136/1-A		351263	6.61	1201652	7.70	697784	9.19
LCS 480-433136/2-A		373626	6.62	1314098	7.70	757008	9.19
480-141245-4 MS	MW-17 MS	366874	6.61	1269025	7.70	753537	9.19
480-141245-4 MSD	MW-17 MSD	374775	6.61	1288079	7.70	749980	9.19
480-141245-4	MW-17	354710	6.61	1216772	7.70	722275	9.19

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
NPT = Naphthalene-d8
Area Limit = 50%-200% of internal standard area
ANT = Acenaphthene-d10
RT Limit = ± 0.5 minutes of internal standard RT
ANT = Acenaphthene-d10

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Sample No.: CCVIS 480-433584/3 Date Analyzed: 09/10/2018 16:27

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): Y019612.D Heated Purge: (Y/N) N

Calibration ID: 34722

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1689324	10.45	1764372	13.22	1761144	15.49
UPPER LIMIT		3378648	10.95	3528744	13.72	3522288	15.99
LOWER LIMIT		844662	9.95	882186	12.72	880572	14.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-433136/1-A		1374214	10.45	1446134	13.22	1429574	15.49
LCS 480-433136/2-A		1495380	10.45	1586809	13.23	1538321	15.49
480-141245-4 MS	MW-17 MS	1471684	10.45	1519965	13.23	1540765	15.48
480-141245-4 MSD	MW-17 MSD	1493368	10.45	1561472	13.23	1553965	15.49
480-141245-4	MW-17	1404731	10.45	1489512	13.22	1480007	15.48

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
PRY = Perylene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: MW-17 | Lab Sample ID: 480-141245-4

Matrix: Water | Lab File ID: Y019620.D

Analysis Method: 8270D | Date Collected: 09/05/2018 12:00

Extract. Method: 3510C | Date Extracted: 09/06/2018 14:08

Sample wt/vol: 250(mL) | Date Analyzed: 09/10/2018 20:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 433584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	24		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
120-12-7	Anthracene	0.50	J F2	5.0	0.28
56-55-3	Benzo[a]anthracene	ND	F2	5.0	0.36
50-32-8	Benzo[a]pyrene	ND	F2	5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND	F2	5.0	0.34
191-24-2	Benzo[g,h,i]perylene	ND	F2	5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND	F2	5.0	0.73
218-01-9	Chrysene	ND	F2	5.0	0.33
53-70-3	Dibenz(a,h)anthracene	ND	F2	5.0	0.42
206-44-0	Fluoranthene	0.61	J F2	5.0	0.40
86-73-7	Fluorene	8.8	F2	5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	ND	F2	5.0	0.47
91-20-3	Naphthalene	ND		5.0	0.76
85-01-8	Phenanthrene	ND	F2	5.0	0.44
129-00-0	Pyrene	0.52	J F2	5.0	0.34
91-57-6	2-Methylnaphthalene	ND		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	103		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	87		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	98		59-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D
Lims ID: 480-141245-B-4-A
Client ID: MW-17
Sample Type: Client
Inject. Date: 10-Sep-2018 20:17:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074536-011
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:44:15 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 11-Sep-2018 11:28:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.613	6.610	0.003	93	354710	4.00	
* 2 Naphthalene-d8	136	7.702	7.700	0.002	99	1216772	4.00	
* 3 Acenaphthene-d10	164	9.187	9.190	-0.003	95	722275	4.00	
* 4 Phenanthrene-d10	188	10.448	10.451	-0.003	98	1404731	4.00	
* 5 Chrysene-d12	240	13.220	13.223	-0.003	99	1489512	4.00	
* 6 Perylene-d12	264	15.484	15.487	-0.003	98	1480007	4.00	
$ 7 2-Fluorophenol	112	5.486	5.460	0.024	90	599342	5.78	
$ 8 Phenol-d5	99	6.271	6.266	0.002	93	509018	3.96	
$ 9 Nitrobenzene-d5	82	7.078	7.083	-0.002	87	838835	6.92	
$ 10 2-Fluorobiphenyl	172	8.589	8.589	-0.003	99	2476921	8.22	
$ 11 2,4,6-Tribromophenol	330	9.855	9.850	0.003	93	296656	8.32	
$ 12 p-Terphenyl-d14	244	11.863	11.864	-0.003	99	2733118	7.86	
237 Lidocaine	1		0.195				ND	
202 o-Anisidine	1		0.195				ND	
13 1,4-Dioxane	88		3.651				ND	
14 N-Nitrosodimethylamine	42		4.068				ND	
15 Pyridine	52		4.105				ND	
18 1-Methylcyclopentanol	71		4.728				ND	
19 2-Picoline	93		4.920				ND	
20 N-Nitrosomethylethylamine	88		5.032				ND	
21 2-Chlorobenzotrifluoride	180		5.267				ND	
24 Acrylamide	71		5.299				ND	
22 Methyl methanesulfonate	80		5.310				ND	
23 4-Chlorobenzotrifluoride	180	5.336	5.334	-0.001	91	1958	0.0205	
25 n,n'-Dimethylacetamide	87		5.406				ND	
196 CBF-400	214		5.530				ND	
26 4-Chloropyridine	78		5.598				ND	U
27 3-Chloropyridine	78		5.662				ND	U
28 N-Nitrosodiethylamine	102		5.679				ND	
29 3-Chlorobenzotrifluoride	180		5.737				ND	
30 Ethyl methanesulfonate	79		5.924				ND	
31 2-Chloropyridine	78		6.020				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
257 CBF-500	161		6.089				ND	
32 2-Chlorotoluene	91		6.181				ND	
33 3-Chlorotoluene	91		6.197				ND	
34 4-Chlorotoluene	91		6.229				ND	
35 Benzaldehyde	77		6.237				ND	U
37 Phenol	94		6.279				ND	
36 Aniline	93		6.327				ND	
39 Bis(2-chloroethyl)ether	93		6.359				ND	
38 Pentachloroethane	167		6.373				ND	
40 2-Chlorophenol	128		6.434				ND	U
41 n-Decane	57	6.442	6.437	0.002	97	9200	0.0979	
42 p-Fluoroaniline	111		6.501				ND	
43 1,3-Dichlorobenzene	146		6.568				ND	
44 1,4-Dichlorobenzene	146		6.626				ND	U
45 Benzyl alcohol	108		6.712				ND	
46 1,2-Dichlorobenzene	146		6.760				ND	
48 2-Methylphenol	108		6.792				ND	
49 2,2'-oxybis[1-chloropropan	45		6.813				ND	
47 Indene	115	6.837	6.837	-0.003	87	16719	0.0850	
50 N-Nitrosopyrrolidine	100		6.918				ND	
57 4-Methylphenol	108		6.920				ND	
53 N-Nitrosodi-n-propylamine	70		6.926				ND	
52 Acetophenone	105		6.942				ND	U
54 N-Nitrosomorpholine	56		6.944				ND	
51 N-Methylaniline	106		6.950				ND	
56 2-Toluidine	106		6.976				ND	
55 4-Methylbenzenamine	106		6.987				ND	U
58 Hexachloroethane	117		7.054				ND	
59 Nitrobenzene	77		7.096				ND	
60 2,6-Dichloropyridine	112		7.163				ND	
61 N-Nitrosopiperidine	114		7.217				ND	
282 2,4-Dichlorotoluene	125		7.282				ND	
62 Isophorone	82		7.289				ND	U
63 2-Chloroaniline	127		7.345				ND	U
287 1,3,5-Trichlorobenzene	180		7.363				ND	
64 2-Nitrophenol	139		7.364				ND	
66 2,4-Dimethylphenol	107		7.369				ND	
65 Benzeneacetonitrile	117		7.377				ND	
68 o,o',o''-Triethylphosphoro	198		7.409				ND	
67 Tetraethyl lead	237		7.435				ND	
69 Bis(2-chloroethoxy)methane	93		7.444				ND	
70 Benzoic acid	105		7.460				ND	U
71 alpha,alpha-Dimethyl phene	58		7.548				ND	
72 2,4-Dichlorophenol	162		7.566				ND	
286 4-Chlorophenol	128	7.633	7.616	0.014	63	2942	NC	
73 1,2,4-Trichlorobenzene	180		7.641				ND	
75 Alpha-Terpineol	59		7.702				ND	
74 Naphthalene	128	7.719	7.719	-0.003	95	17147	0.0549	
76 4-Chloroaniline	127		7.748				ND	U
77 2,6-Dichlorophenol	162		7.759				ND	
78 Hexachloropropene	213		7.794				ND	
79 Hexachlorobutadiene	225		7.812				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 Benzeneacetic acid (TIC)	91		7.917				ND	
82 N-Nitrosodi-n-butylamine	84		7.997				ND	
81 Quinoline	129		7.997				ND	U
84 Caprolactam	113		8.036				ND	
83 p-Phenylene diamine	108		8.039				ND	
85 4-Chloro-3-methylphenol	107		8.127				ND	
86 Safrole, Total	162		8.200				ND	U
281 2,4,5-Trichlorotoluene	159	8.295	8.246	0.046	64	7437	NC	
198 NVF-400	82	8.306	8.270	0.032	0	447	0.001469	
87 2-Methylnaphthalene	142		8.298				ND	U
88 Phthalic anhydride	104		8.338				ND	
89 1-Methylnaphthalene	142	8.386	8.381	0.002	88	12377	0.0620	
90 Hexachlorocyclopentadiene	237		8.432				ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.442				ND	
275 Isosafrole Peak 1	162		8.445				ND	
258 CU-600	58	8.466	8.465	-0.002	0	680	0.002235	
93 2,4,6-Trichlorophenol	196		8.528				ND	
284 2,3-Dichlorobenzenamine	161	8.514	8.538	-0.027	50	155	NC	
94 2,4,5-Trichlorophenol	196		8.565				ND	
277 Isosafrole Peak 2	162		8.632				ND	
95 Isosafrole	162		8.632				ND	
285 1,2,3,4 -Tetrachlorobenzen	216		8.671				ND	
96 1,1'-Biphenyl	154	8.680	8.680	-0.003	91	9698	0.0343	
97 2-Chloronaphthalene	162		8.715				ND	U
99 1-Chloronaphthalene	162		8.739				ND	U
100 2-Nitroaniline	65		8.784				ND	
102 1,4-Naphthoquinone	158		8.851				ND	U
103 Dicyclohexylamine	138		8.867				ND	U
104 1,4-Dinitrobenzene	168		8.878				ND	
105 Dimethyl phthalate	163		8.902				ND	U
106 1,3-Dinitrobenzene	168		8.950				ND	U
107 2,6-Dinitrotoluene	165		8.966				ND	U
108 Acenaphthylene	152		9.073				ND	U
109 3-Nitroaniline	138		9.126				ND	
111 2,4-Dinitrophenol	184		9.206				ND	
110 Acenaphthene	153	9.219	9.214	0.002	94	1419539	6.02	
112 4-Nitrophenol	109		9.238				ND	
114 2,4-Dinitrotoluene	165		9.313				ND	U
113 Pentachlorobenzene	250		9.332				ND	
115 Dibenzofuran	168	9.358	9.358	-0.003	97	245495	0.7633	
117 2,3,5,6-Tetrachlorophenol	232		9.417				ND	
116 1-Naphthylamine	143		9.417				ND	U
118 2,3,4,6-Tetrachlorophenol	232		9.457				ND	
121 Hexadecane	57		9.479				ND	U
119 2-Naphthylamine	143		9.487				ND	U
120 Diethyl phthalate	149		9.489				ND	U
122 Thionazin	97		9.562				ND	
123 4-Chlorophenyl phenyl ethe	204		9.623				ND	U
125 N-Nitro-o-toluidine	152		9.636				ND	
126 4-Nitroaniline	138		9.644				ND	
128 Tributyl phosphate	99		9.647				ND	
124 Fluorene	166	9.652	9.647	0.003	94	565329	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
127 4,6-Dinitro-2-methylphenol	198		9.666				ND	U
130 N-Nitrosodiphenylamine	169		9.714				ND	U
129 Diphenylamine	169		9.714				ND	U
131 1,2-Diphenylhydrazine	77		9.756				ND	U
132 Azobenzene	77		9.756				ND	
134 Sulfotepp	322		9.807				ND	U
135 1,3,5-Trinitrobenzene	213		9.909				ND	U
278 Diallate Peak 1	86		9.946				ND	
138 Phenacetin	108		9.946				ND	
136 Diallate	86		9.946				ND	
137 Phorate	75		9.951				ND	U
280 Diallate Peak 2	86		10.026				ND	
139 4-Bromophenyl phenyl ether	248		10.039				ND	
141 Dimethoate	87		10.101				ND	U
142 Simazine	201		10.122				ND	
140 Hexachlorobenzene	284		10.130				ND	
143 Atrazine	200		10.136				ND	U
98 n,n'-Dimethylaniline	120	10.277	10.238	0.036	47	294	NC	
148 n-Octadecane	57		10.253				ND	U
144 4-Aminobiphenyl	169		10.261				ND	U
147 Pronamide	173		10.277				ND	U
145 Pentachlorophenol	266		10.280				ND	
146 Pentachloronitrobenzene	237		10.293				ND	
149 Disulfoton	88		10.389				ND	U
150 Dinoseb	211		10.400				ND	U
151 Phenanthrene	178	10.469	10.469	-0.003	94	20629	0.0535	
152 Anthracene	178	10.512	10.512	-0.003	96	47697	0.1259	
153 Carbazole	167	10.629	10.629	-0.003	95	553576	2.31	
155 Methyl parathion	109		10.715				ND	
154 Alachlor	160		10.720				ND	U
157 Di-n-butyl phthalate	149	10.854	10.854	-0.003	99	34657	0.1263	
163 Octachlorostyrene	308		10.893				ND	
288 2-Methylanthracene	192	10.918	10.913	0.003	54	3184	NC	
158 Ethyl Parathion	97		11.036				ND	
159 4-Nitroquinoline-1-oxide	190		11.116				ND	U
161 Methapyrilene	58		11.143				ND	
160 Anthraquinone	180		11.158				ND	
162 Isodrin	193		11.388				ND	U
164 Fluoranthene	202	11.527	11.521	0.003	96	64281	0.1524	
165 1-Hydroxyanthraquinone	224		11.564				ND	U
166 Benzidine	184		11.610				ND	
167 Pyrene	202	11.762	11.762	-0.003	98	61116	0.1303	
276 Aramite Peak 1	185		11.789				ND	
168 Aramite, Total	185		11.864				ND	
279 Aramite Peak 2	185		11.864				ND	U
170 p-Dimethylamino azobenzene	120		12.008				ND	
171 Chlorobenzilate	251		12.040				ND	
169 1,4-Dihydroxyanthraquinone	240		12.050				ND	U
172 Famphur	218		12.338				ND	U
175 9-Octadecenamide	59		12.365				ND	
174 Butyl benzyl phthalate	149		12.368				ND	
173 3,3'-Dimethylbenzidine	212		12.392				ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
176 Kepone	272		12.552				ND	U
177 2-Acetylaminofluorene	181		12.723				ND	
181 Bis(2-ethylhexyl) phthalat	149	13.086	13.086	-0.003	93	42731	0.2619	
178 4,4'-Methylene bis(2-chlor	231		13.113				ND	U
179 3,3'-Dichlorobenzidine	252		13.127				ND	U
180 Benzo[a]anthracene	228		13.207				ND	
182 Chrysene	228		13.260				ND	
183 6-Methylchrysene	242		13.920				ND	U
184 Di-n-octyl phthalate	149		14.067				ND	
185 7,12-Dimethylbenz(a)anthra	256		14.828				ND	
186 Benzo[b]fluoranthene	252		14.857				ND	
187 Benzo[k]fluoranthene	252		14.900				ND	
192 Hexachlorophene	196		15.186				ND	
283 Benzo[e]pyrene	252	15.260	15.250	0.007	0	386	NC	
189 Benzo[a]pyrene	252		15.396				ND	
190 3-Methylcholanthrene	268		15.949				ND	
191 Dibenz[a,h]acridine	279		16.911				ND	U
193 Indeno[1,2,3-cd]pyrene	276		17.389				ND	
194 Dibenz(a,h)anthracene	278		17.399				ND	
195 Benzo[g,h,i]perylene	276		17.950				ND	
199 CAG-800	149	19.666	19.667	-0.009	0	687	0.002258	
256 CN-500	112		19.994				ND	
197 Dibenzo[a,e]pyrene	302		21.194				ND	
301 3-Amino-4-Chlorobenzotrifl	1		0.000				ND	
300 1-Bromo-4-ethylbenzene TIC	1		0.000				ND	
296 1,2-dichloro-4-(trifluorom	1		0.000				ND	
302 1-Bromo-2-chloroethane TIC	1		0.000				ND	
290 1,3-Dibromobenzene TIC	1		0.000				ND	
291 1,4-Dibromobenzene TIC	1		0.000				ND	
297 Fluorobenzene TIC	1		0.000				ND	
295 4-Bromofluorobenzene TIC	1		0.000				ND	
294 3'-Bromoacetophenone TIC	1		0.000				ND	
293 3-Nitro-4-Chlorobenzotrifl	1		0.000				ND	
292 Ethylene Dibromide TIC	1		0.000				ND	
298 2-Bromopyridine TIC	1		0.000				ND	
299 1-Bromo-3-fluorobenzene TI	1		0.000				ND	
242 1,3-phenylenediamine TIC	1		0.195				ND	
226 Tris(2,3-dibromopropyl)pho	1		0.195				ND	
220 Tetramethyl lead TIC	1		0.195				ND	
215 trans Azobenzene (TIC)	1		0.195				ND	
227 Dibenz[a,j]acridine	279		0.195				ND	
216 5-Methyl-o-Anisidine TIC	1		0.195				ND	
247 Benefin (TIC)	1		0.195				ND	
222 2-Chlorobenzotrifluoride T	1		0.195				ND	
241 5-Methyl-o-Anisidine	1		0.195				ND	
205 Phenylmercaptan	110		0.195				ND	
244 Pendimethalin	1		0.195				ND	
209 2,4-Dichlorotoluene TIC	1		0.195				ND	
225 Dibenz(a,i)pyrene	1		0.195				ND	
212 Hexamethyldisiloxane TIC	1		0.195				ND	
211 Pendimethalin (TIC)	1		0.195				ND	
210 Dibenzo[a,h]pyrene	1		0.195				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
233 4-Chlorobenzotrifluoride T	1		0.195				ND	
213 4,4'-Methylene bis(2-chlor	1		0.195				ND	
206 2,4-Toluene diamine	1		0.195				ND	
218 3-Chlorobenzotrifluoride T	1		0.195				ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195				ND	
219 Photomirex TIC	1		0.195				ND	
224 1-Bromopropane	1		0.195				ND	
240 Prometryn (TIC)	1		0.195				ND	
243 2,4-Xylidine TIC	1		0.195				ND	
230 2,3-Dichlorophenol	1		0.195				ND	
214 1,2,3-Trimethylbenzene	105		0.195				ND	
204 2,6-Dichlorotoluene TIC	1		0.195				ND	
229 o-Anisidine TIC	1		0.195				ND	
238 Phenylacetic Acid	1		0.195				ND	
254 4,4'-DDD	235	12.178	12.171	0.007	55	112	NR	
S 261 Total Cresols	1		0.195				ND	
S 259 Chlorobenzotrifluoride N.O	1				0		0.0205	
S 264 EPH Adjustment 1	1		0.195				ND	
S 260 Chlorotoluene N.O.S	1		0.195				ND	
S 262 3 & 4 Methylphenol	108		0.195				ND	
S 263 3-Methylphenol	1		0.195				ND	
T 274 2-Aminopyridine TIC	99	5.187	5.556	-0.371	35	13657	0.1540	
T 231 1-Methylnaphthalene (TIC)	142	8.386	8.502	-0.119	74	12377	0.0407	
T 156 2,3,7,8-TCDD	322		12.736				ND	
T 289 2,3,7,8-TCDD TIC	322		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00152 Amount Added: 20.00 Units: uL Run Reagent

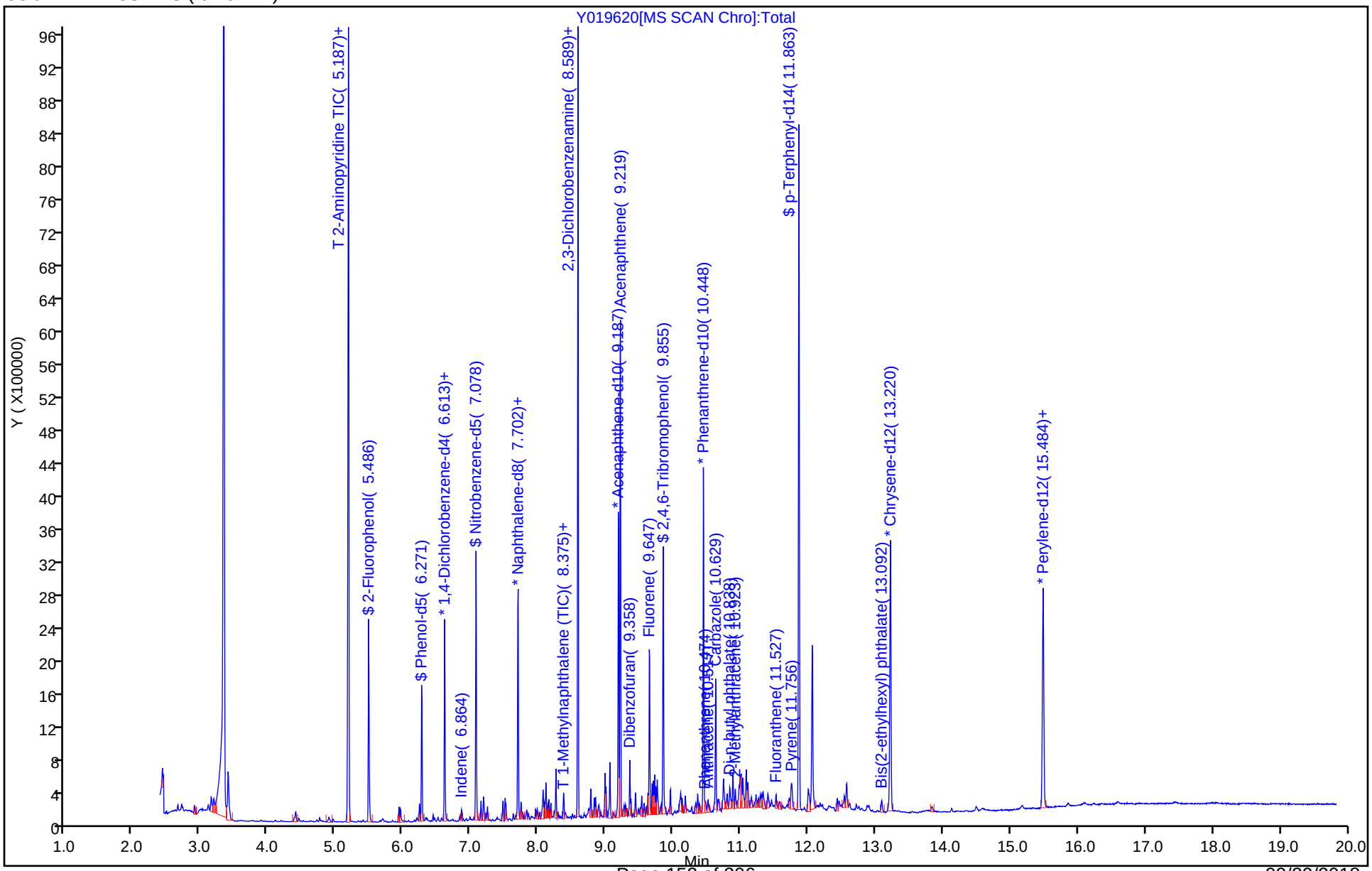
Report Date: 11-Sep-2018 11:44:53 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D

Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4	Worklist Smp#:	11
Client ID:	MW-17				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

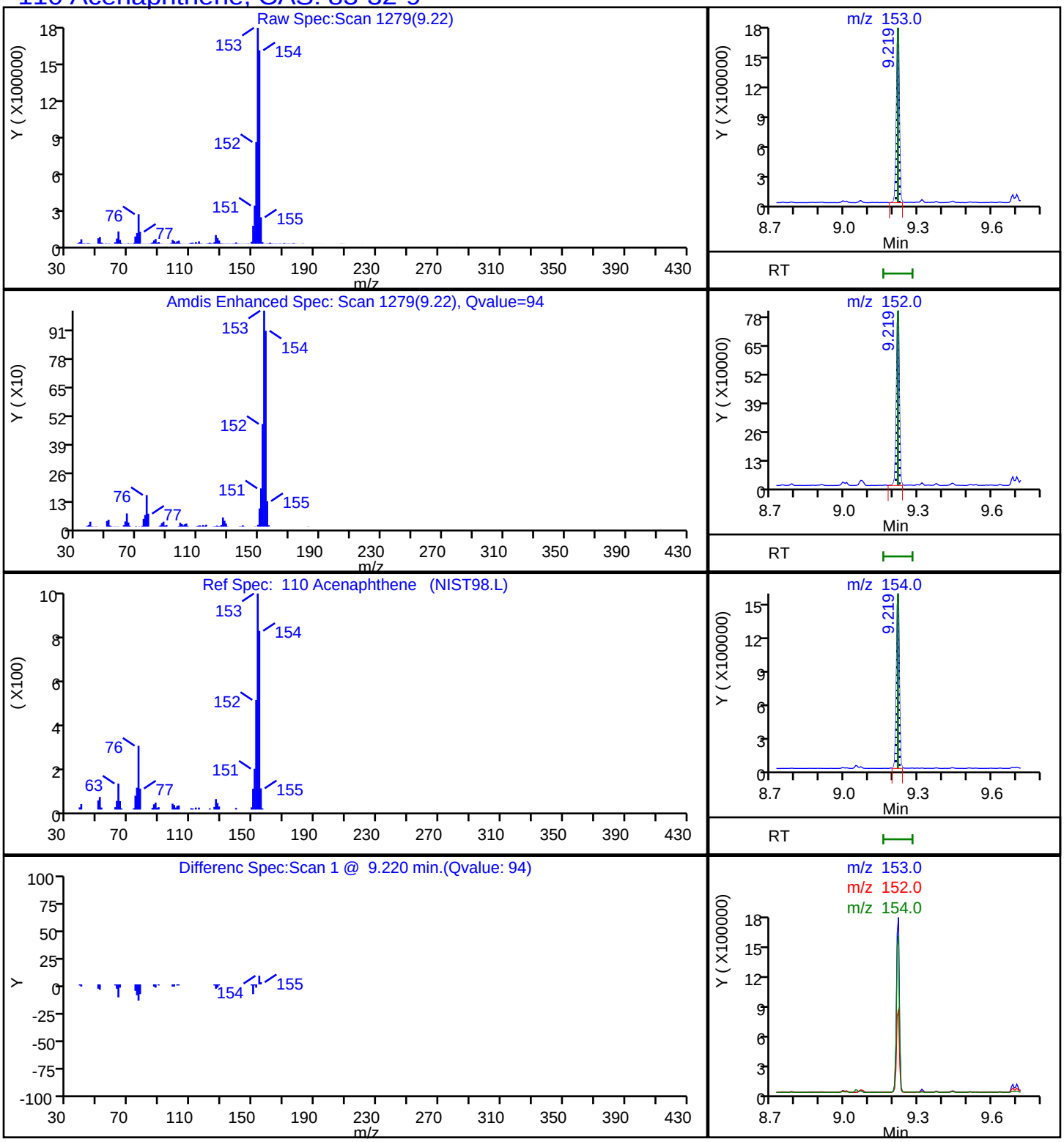
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D				
Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

110 Acenaphthene, CAS: 83-32-9

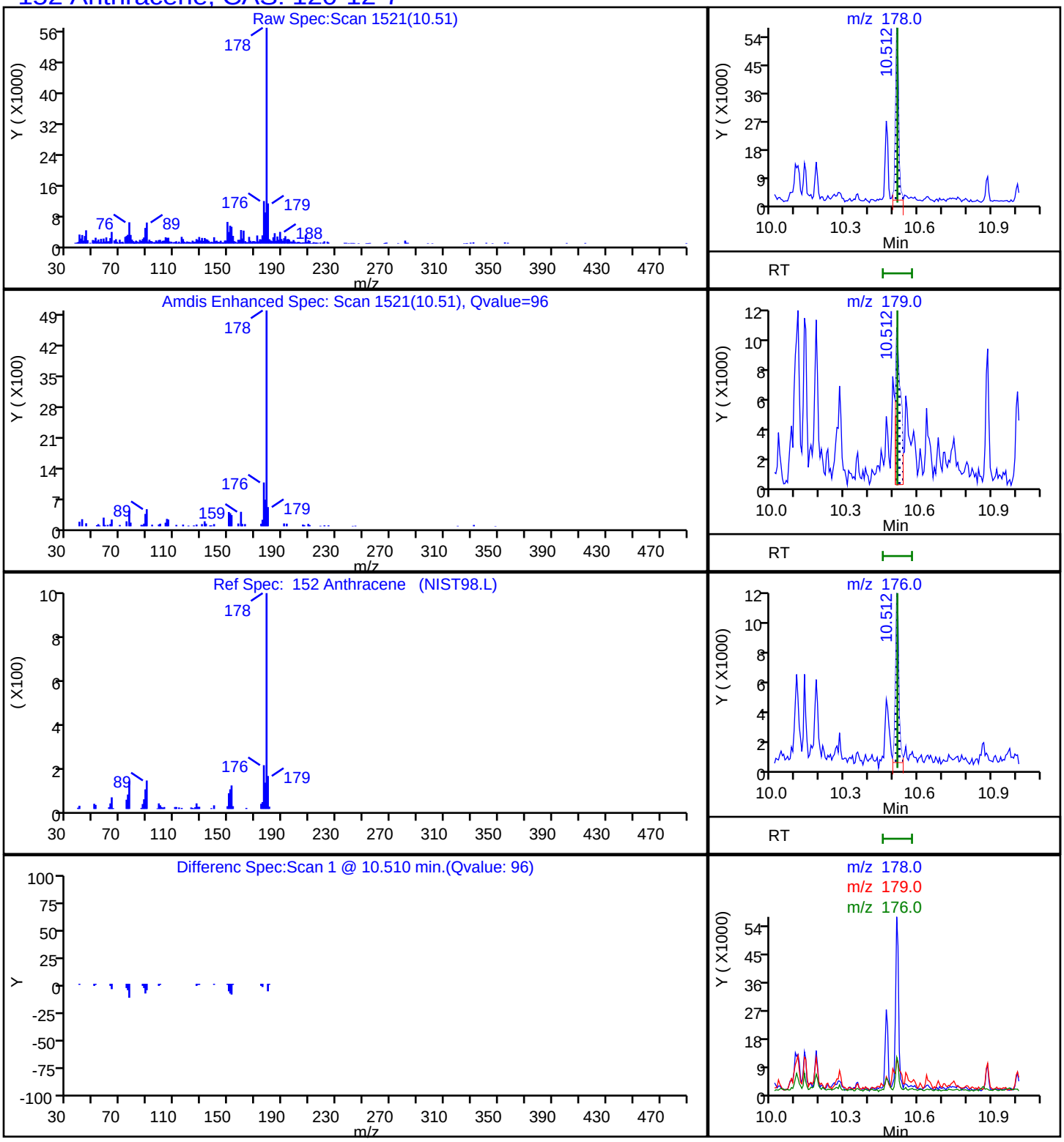


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D

Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4
Client ID:	MW-17		
Operator ID:	BS	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

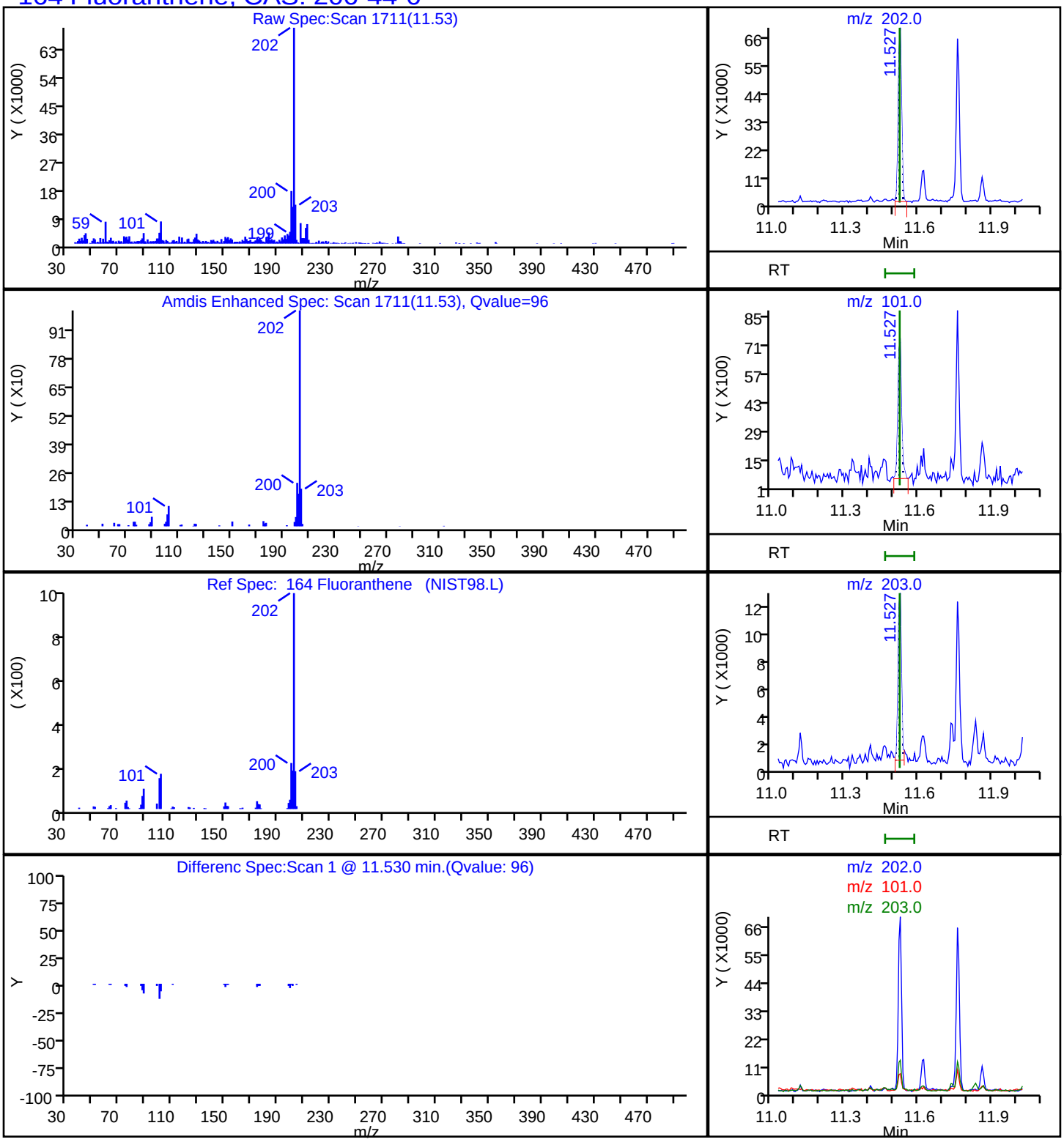
152 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D				
Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0



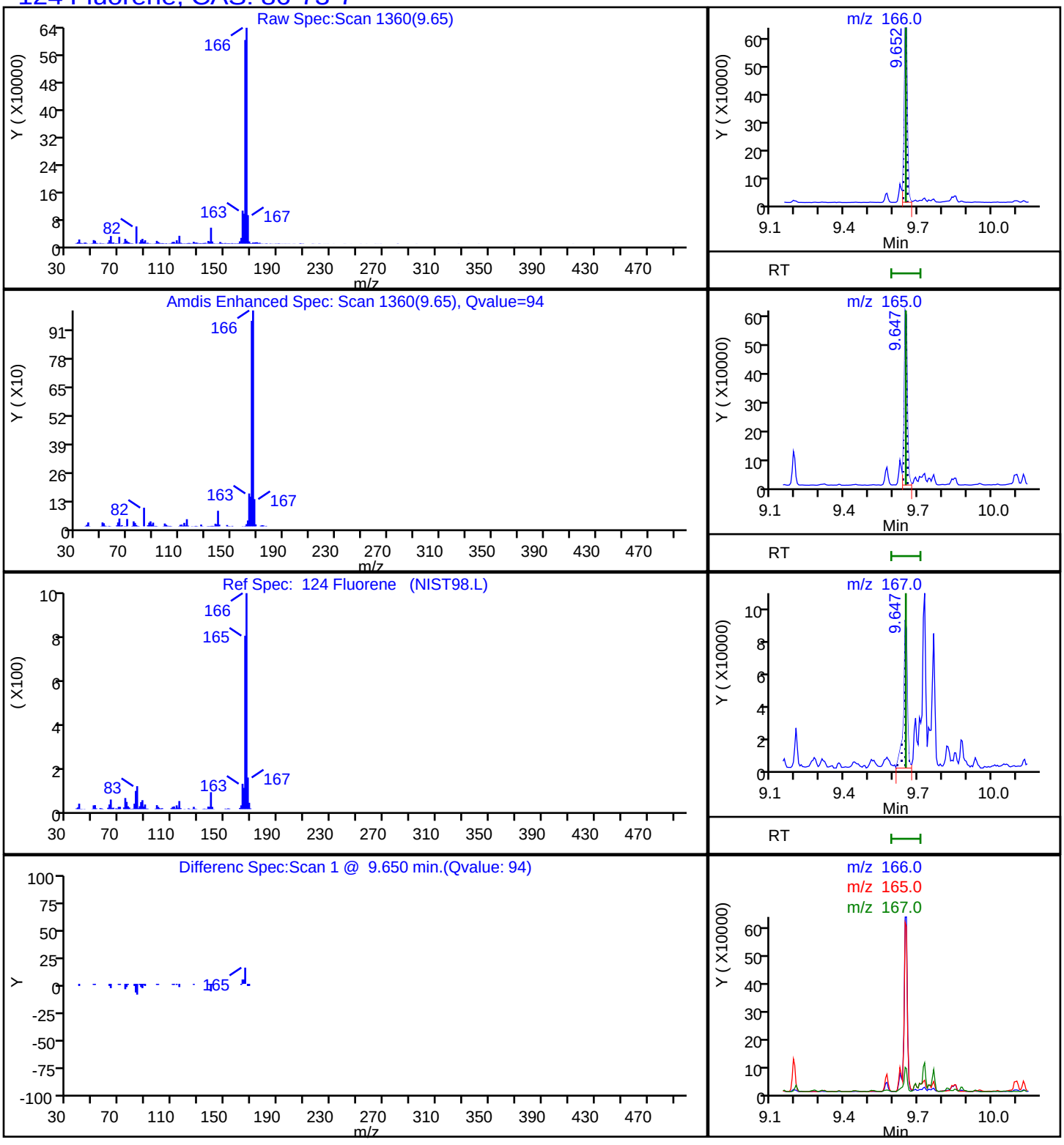
Report Date: 11-Sep-2018 11:44:55 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D

Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4
Client ID:	MW-17		
Operator ID:	BS	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

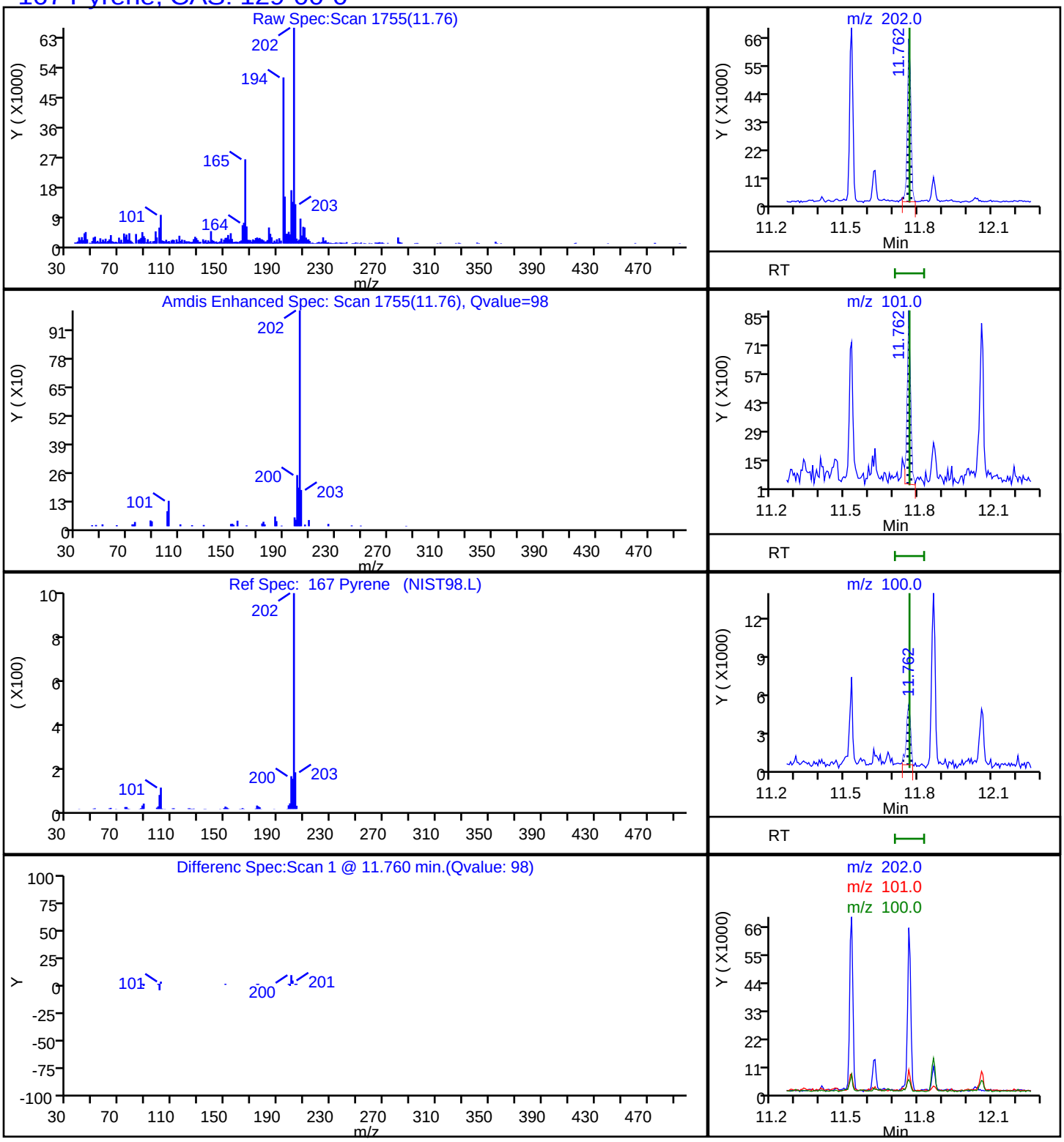
124 Fluorene, CAS: 86-73-7



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D				
Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0



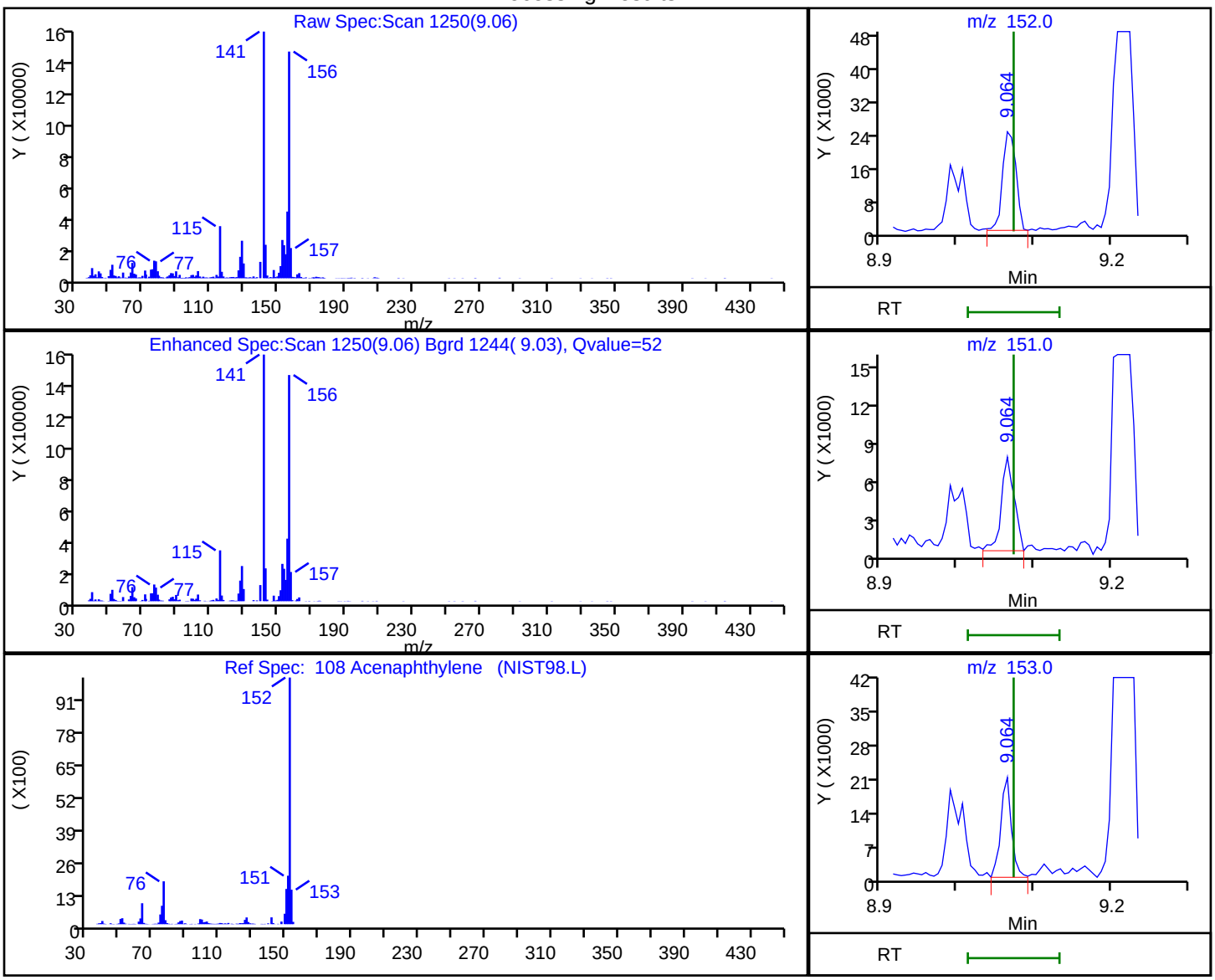
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D				
Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
9.06	152.00	29141	0.099890
9.06	151.00	8285	
9.06	153.00	20282	

Reviewer: schickr, 11-Sep-2018 11:25:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

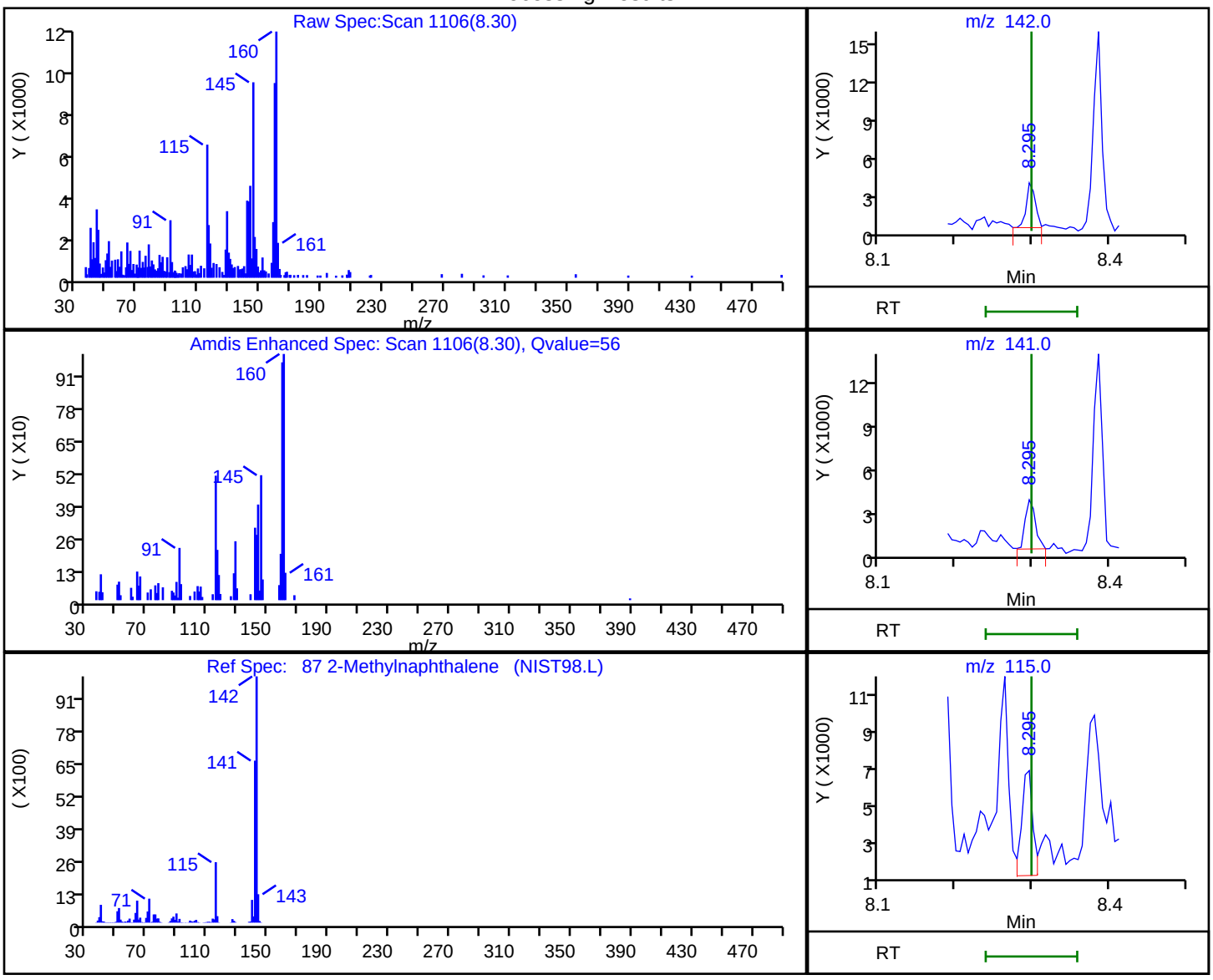
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019620.D				
Injection Date:	10-Sep-2018 20:17:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-B-4-A	Lab Sample ID:	480-141245-4		
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

87 2-Methylnaphthalene, CAS: 91-57-6

Processing Results



RT	Mass	Response	Amount
8.30	142.00	2832	0.013334
8.30	141.00	2991	
8.30	115.00	5549	

Reviewer: schickr, 11-Sep-2018 11:25:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-431821/3	Y019355.D
Level 2	IC 480-431821/4	Y019356.D
Level 3	IC 480-431821/5	Y019357.D
Level 4	IC 480-431821/6	Y019358.D
Level 5	ICIS 480-431821/7	Y019359.D
Level 6	IC 480-431821/8	Y019360.D
Level 7	IC 480-431821/9	Y019361.D
Level 8	IC 480-431821/10	Y019362.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4317	0.4799 0.4316	0.4679 0.4097	0.4506	0.4473	Ave		0.4455			0.0100	5.3		20.0			
N-Nitrosodimethylamine	0.5529	0.5592 0.5429	0.5914 0.5347	0.5668	0.5731	Ave		0.5601			0.0100	3.4		20.0			
Pyridine	0.6563	0.6036 0.6326	0.6895 0.6417	0.6501	0.6732	Ave		0.6496			0.0100	4.3		20.0			
Benzaldehyde	0.9045	0.9324 0.8447	0.9937 0.7834	0.9715	0.9726	Ave		0.9147			0.0100	8.4		20.0			
Phenol	1.3402	1.3216 1.3272	1.3875 1.3176	1.3684	1.3868	Ave		1.3499			0.8000	2.3		20.0			
Aniline	1.5869	1.5740 1.6056	1.7056 1.5352	1.5927	1.6017	Ave		1.6002			0.0100	3.3		20.0			
Bis(2-chloroethyl)ether	1.0621	1.1188 1.0224	1.1181 1.0428	1.1588	1.1530	Ave		1.0966			0.7000	4.9		20.0			
2-Chlorophenol	1.2067	1.1227 1.2273	1.2363 1.2115	1.2413	1.2339	Ave		1.2114			0.8000	3.4		20.0			
n-Decane	1.0250	1.0897 1.0215	1.1244 1.0091	1.0680	1.0778	Ave		1.0594			0.0100	4.0		20.0			
1,3-Dichlorobenzene	1.4384	1.4689 1.4446	1.5092 1.4328	1.4690	1.4803	Ave		1.4633			0.0100	1.8		20.0			
1,4-Dichlorobenzene	1.4711	1.4945 1.4734	1.5647 1.4480	1.4844	1.5105	Ave		1.4924			0.0100	2.5		20.0			
Benzyl alcohol	0.7298	0.6226 0.7310	0.6894 0.7166	0.7075	0.7400	Ave		0.7053			0.0100	5.7		20.0			
1,2-Dichlorobenzene	1.4001	1.4507 1.3924	1.4983 1.3826	1.4092	1.4290	Ave		1.4232			0.0100	2.8		20.0			
2-Methylphenol	1.0302	0.9519 1.0370	1.0666 1.0274	1.0480	1.0442	Ave		1.0293			0.7000	3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

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								
bis (2-chloroisopropyl) ether	1.4426	1.6369 1.4057	1.6441 1.4022	1.5372	1.5244	Ave		1.5133			0.0100	6.7		20.0			
Indene	2.0341	2.2116 +++++	2.3700 +++++	2.2459	2.2281	Ave		2.2179			0.0100	5.4		20.0			
4-Methylphenol	1.0458	0.9598 1.0560	1.0730 1.0559	1.0596	1.0515	Ave		1.0431			0.6000	3.6		20.0			
N-Nitrosodi-n-propylamine	0.7242	0.7012 0.7468	0.7707 0.7426	0.7627	0.7566	Ave		0.7436			0.5000	3.2		20.0			
Acetophenone	1.4818	1.4881 1.4843	1.6010 1.4921	1.5629	1.5066	Ave		1.5167			0.0100	3.1		20.0			
Hexachloroethane	0.5584	0.5466 0.5536	0.5591 0.5515	0.5513	0.5566	Ave		0.5539			0.3000	0.8		20.0			
Nitrobenzene	0.3179	0.3033 0.3210	0.3281 0.3250	0.3203	0.3218	Ave		0.3196			0.2000	2.5		20.0			
Isophorone	0.5770	0.5357 0.5819	0.5974 0.5822	0.5840	0.5935	Ave		0.5788			0.4000	3.5		20.0			
2,4-Dimethylphenol	0.3141	0.2871 0.3201	0.3140 0.3242	0.3143	0.3230	Ave		0.3138			0.2000	4.0		20.0			
2-Nitrophenol	0.1844	0.1386 0.1893	0.1675 0.1944	0.1721	0.1781	Lin2	-0.012	0.1855			0.1000	3.6			0.9990		0.9900
Bis(2-chloroethoxy)methane	0.3450	0.3599 0.3547	0.3681 0.3552	0.3672	0.3591	Ave		0.3585			0.3000	2.2		20.0			
Benzoic acid	0.2024	+++++ 0.2251	0.1272 0.2332	0.1637	0.1940	Lin2	-0.529	0.2266			0.0100	5.1			0.9970		0.9900
2,4-Dichlorophenol	0.3080	0.2556 0.3142	0.2960 0.3179	0.2993	0.3052	Lin2	-0.014	0.3118			0.2000	1.5			1.0000		0.9900
1,2,4-Trichlorobenzene	0.3624	0.3565 0.3686	0.3787 0.3741	0.3630	0.3641	Ave		0.3667			0.0100	2.1		20.0			
Naphthalene	1.0145 1.0108	1.0415 1.0139	1.0726 0.9775	1.0350	1.0431	Ave		1.0261			0.7000	2.8		20.0			
4-Chloroaniline	0.3450	0.3190 0.3615	0.3689 0.3556	0.3389	0.3593	Ave		0.3497			0.0100	4.8		20.0			
2,6-Dichlorophenol	0.3028	0.2690 0.3171	0.2979 0.3181	0.3021	0.3089	Lin2	-0.011	0.3117			0.0100	1.9			1.0000		0.9900
Hexachlorobutadiene	0.2209	0.2164 0.2227	0.2176 0.2286	0.2147	0.2171	Ave		0.2197			0.0100	2.2		20.0			
Caprolactam	0.0881	0.0716 0.0899	0.0896 0.0912	0.0897	0.0899	Lin2	-0.009	0.0912			0.0100	2.1			1.0000		0.9900
4-Chloro-3-methylphenol	0.2519	0.2064 0.2551	0.2504 0.2582	0.2576	0.2536	Lin2	-0.013	0.2585			0.2000	1.6			1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

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-Methylnaphthalene	0.6523 0.7011	0.6776 0.6999	0.7182 0.6982	0.7168	0.7216	Ave		0.6982			0.4000	3.4		20.0			
1-Methylnaphthalene	0.6336 0.6489	0.6405 0.6670	0.6632 0.6625	0.6689	0.6684	Ave		0.6566			0.0100	2.1		20.0			
Hexachlorocyclopentadiene	 0.4872	0.3891 0.4825	0.4209 0.5053	0.4315	0.4557	Lin2	-0.024	0.4736			0.0500	5.6			0.9970		0.9900
1,2,4,5-Tetrachlorobenzene	 0.7249	0.7031 0.7042	0.7223 0.7142	0.6891	0.7026	Ave		0.7086			0.0100	1.8		20.0			
2,4,6-Trichlorophenol	 0.4541	0.3256 0.4564	0.4241 0.4732	0.4046	0.4282	Lin2	-0.032	0.4514			0.2000	4.3			0.9980		0.9900
2,4,5-Trichlorophenol	 0.4476	0.3584 0.4449	0.4259 0.4593	0.4242	0.4323	Lin2	-0.022	0.4468			0.2000	2.0			1.0000		0.9900
Biphenyl	 1.5730	1.5623 1.5387	1.6250 1.5234	1.5388	1.5850	Ave		1.5637			0.0100	2.2		20.0			
2-Chloronaphthalene	 1.2388	1.2439 1.2201	1.2843 1.2171	1.2350	1.2299	Ave		1.2384			0.8000	1.8		20.0			
2-Nitroaniline	 0.2865	0.1793 0.2866	0.2485 0.2898	0.2560	0.2764	Lin2	-0.027	0.2836			0.0100	3.2			0.9990		0.9900
Dimethyl phthalate	 1.3798	1.3225 1.3481	1.4123 1.2044	1.3544	1.3724	Ave		1.3420			0.0100	5.0		20.0			
1,3-Dinitrobenzene	 0.1224	0.0573 0.1286	0.0983 0.1193	0.1031	0.1163	Lin2	-0.016	0.1206			0.0100	5.6			0.9970		0.9900
2,6-Dinitrotoluene	 0.3298	0.2268 0.3261	0.3080 0.3077	0.3172	0.3235	Lin2	-0.024	0.3266			0.2000	2.7			0.9990		0.9900
Acenaphthylene	1.6598 1.9333	1.8114 1.8872	1.9694 1.8402	1.9092	1.9164	Lin2	-0.030	1.9190			0.9000	2.5			0.9990		0.9900
3-Nitroaniline	 0.1787	0.1580 0.2130	0.2487 +++++	0.2184	0.1906	Ave		0.2012			0.0100	16.0		20.0			
2,4-Dinitrophenol	 0.1944	+++++ 0.2017	0.0997 0.2158	0.1326	0.1651	Lin2	-0.237	0.2082			0.0100	6.7			0.9940		0.9900
Acenaphthene	1.3282 1.3301	1.2731 1.2819	1.3591 1.2742	1.3000	1.3032	Ave		1.3062			0.9000	2.4		20.0			
4-Nitrophenol	 0.1626	+++++ 0.1674	0.1087 0.1752	0.1242	0.1607	Lin2	-0.141	0.1736			0.0100	4.9			0.9970		0.9900
2,4-Dinitrotoluene	 0.4228	0.2519 0.4221	0.3744 0.4311	0.3828	0.3999	Lin2	-0.043	0.4204			0.2000	2.7			0.9990		0.9900
Dibenzofuran	 1.7764	1.7880 1.7259	1.8529 1.7328	1.7947	1.7970	Ave		1.7811			0.8000	2.4		20.0			
2,3,4,6-Tetrachlorophenol	 0.3805	0.2768 0.3888	0.3388 0.3947	0.3456	0.3611	Lin2	-0.027	0.3782			0.0100	4.1			0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

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								
Hexadecane	0.6342	0.6102 0.6247	0.6596 0.6215	0.6242	0.6200	Ave		0.6277			0.0100	2.5		20.0			
Diethyl phthalate	1.3656	1.2806 1.3224	1.3579 1.3327	1.3316	1.3518	Ave		1.3346			0.0100	2.1		20.0			
4-Chlorophenyl phenyl ether	0.7300	0.7038 0.7376	0.7368 0.7402	0.7197	0.7185	Ave		0.7267			0.4000	1.8		20.0			
4-Nitroaniline	0.2935	+++++ 0.2635	0.2946 0.2605	0.2659	0.2829	Lin2	0.0210	0.2698			0.0100	5.6			0.9960		0.9900
Fluorene	1.3134 1.4597	1.3667 1.4367	1.4572 1.4201	1.4257	1.4510	Ave		1.4163			0.9000	3.6		20.0			
4,6-Dinitro-2-methylphenol	0.1207	0.0465 0.1288	0.0868 0.1306	0.1007	0.1182	Lin2	-0.040	0.1218			0.0100	8.6			0.9930		0.9900
Diphenylamine	0.6017	0.5677 0.6035	0.6326 0.6122	0.6273	0.6338	Ave		0.6113			0.0100	3.8		20.0			
N-Nitrosodiphenylamine	0.5144	0.4854 0.5160	0.5408 0.5234	0.5364	0.5419	Ave		0.5226			0.0100	3.8		20.0			
1,2-Diphenylhydrazine	0.6158	0.5862 0.6290	0.6772 0.6140	0.6395	0.6491	Ave		0.6301			0.0100	4.6		20.0			
trans-Azobenzene	0.6158	0.5862 0.6290	0.6772 0.6140	0.6395	0.6491	Ave		0.6301			0.0100	4.6		20.0			
4-Bromophenyl phenyl ether	0.2270	0.2080 0.2335	0.2334 0.2344	0.2259	0.2324	Ave		0.2278			0.1000	4.1		20.0			
Hexachlorobenzene	0.2267	0.2185 0.2369	0.2308 0.2445	0.2251	0.2312	Ave		0.2305			0.1000	3.7		20.0			
Atrazine	0.3764	0.3493 0.3805	0.4180 0.3830	0.3979	0.3937	Ave		0.3856			0.0100	5.5		20.0			
n-Octadecane	0.3195	0.3101 0.3222	0.3385 0.3249	0.3291	0.3330	Ave		0.3253			0.0100	2.9		20.0			
Pentachlorophenol	0.1378	0.0734 0.1432	0.1073 0.1525	0.1190	0.1304	Lin2	-0.035	0.1383			0.0500	8.0			0.9940		0.9900
Phenanthrene	1.1047 1.0758	1.0749 1.0681	1.1600 1.0309	1.1229	1.1385	Ave		1.0970			0.7000	3.9		20.0			
Anthracene	1.0021 1.0931	1.0029 1.0898	1.1270 1.0448	1.1240	1.1462	Ave		1.0787			0.7000	5.2		20.0			
Carbazole	0.4993	+++++ 0.5297	0.9491 +++++	0.7332	0.6027	Lin2	0.4841	0.4732			0.0100	5.3			0.9960		0.9900
Di-n-butyl phthalate	1.1519	0.9652 1.1259	1.1606 +++++	1.1584	1.1848	Lin2	-0.050	1.1736			0.0100	2.8			0.9990		0.9900
Fluoranthene	1.1448 1.2149	1.1203 1.2113	1.2536 1.1545	1.2424	1.2665	Ave		1.2010			0.6000	4.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

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								
Benzidine	0.3374	0.3944 0.4078	0.3624 +++++	0.3161	0.3218	Ave		0.3566			0.0100	10.7		20.0			
Pyrene	1.1703 1.2668	1.1766 1.2849	1.3049 1.1865	1.3648	1.3225	Ave		1.2597			0.6000	5.8		20.0			
Butyl benzyl phthalate	0.5103	0.3488 0.5330	0.4635 0.5156	0.5106	0.5165	Lin2	-0.044	0.5236			0.0100	2.1			1.0000		0.9900
Bis(2-ethylhexyl) phthalate	0.7406	0.4291 0.7692	0.6399 0.7510	0.7365	0.7327	Lin2	-0.084	0.7575			0.0100	2.7			0.9990		0.9900
3,3'-Dichlorobenzidine	0.2994	0.3424 0.3392	0.3813 0.3859	0.3471	0.3049	Ave		0.3429			0.0100	9.7		20.0			
Benzo[a]anthracene	1.2344 1.2107	1.2194 1.2592	1.2528 1.2203	1.2910	1.2543	Ave		1.2428			0.8000	2.1		20.0			
Chrysene	1.1880 1.1213	1.1406 1.1526	1.1616 1.1180	1.2144	1.1699	Ave		1.1583			0.7000	2.8		20.0			
Di-n-octyl phthalate	1.2138	0.6599 1.2547	0.9586 1.2357	1.1432	1.1870	Lin2	-0.147	1.2194			0.0100	4.8			0.9980		0.9900
Benzo[b]fluoranthene	0.9956 1.2377	1.0290 1.1686	1.1322 1.2064	1.1332	1.2079	Lin2	-0.027	1.1870			0.7000	3.4			0.9990		0.9900
Benzo[k]fluoranthene	1.0413 1.2160	1.0966 1.2086	1.2125 1.1497	1.2306	1.3003	Lin2	-0.024	1.2245			0.7000	3.9			0.9980		0.9900
Benzo[a]pyrene	0.8666 1.1511	0.8958 1.1583	1.0775 1.1649	1.1160	1.1513	Lin2	-0.040	1.1433			0.7000	3.9			0.9980		0.9900
Indeno[1,2,3-cd]pyrene	1.0916 1.3405	1.0882 1.3151	1.2208 1.3439	1.2290	1.2890	Lin2	-0.031	1.2947			0.5000	4.3			0.9980		0.9900
Dibenz(a,h)anthracene	0.8681 1.1184	0.8981 1.1075	0.9909 1.1233	1.0365	1.0793	Lin2	-0.032	1.0831			0.4000	4.4			0.9980		0.9900
Benzo[g,h,i]perylene	0.9222 1.1046	0.9407 1.0783	1.0262 1.1162	1.0427	1.0851	Lin2	-0.023	1.0802			0.5000	3.1			0.9990		0.9900
2-Fluorophenol (Surr)	1.1939	1.1068 1.1879	1.1786 1.1489	1.1554	1.2129	Ave		1.1692			0.0100	3.0		20.0			
Phenol-d5 (Surr)	1.4343	1.3343 1.4546	1.5064 1.4346	1.4897	1.4904	Ave		1.4492			0.0100	4.0		20.0			
Nitrobenzene-d5 (Surr)	0.3970	0.3769 0.4038	0.4024 0.4057	0.3998	0.4037	Ave		0.3985			0.0100	2.5		20.0			
2-Fluorobiphenyl	1.6759	1.6483 1.6487	1.7237 1.6378	1.6725	1.6677	Ave		1.6678			0.0100	1.7		20.0			
2,4,6-Tribromophenol (Surr)	0.0999	0.0703 0.1067	0.0908 0.1072	0.0938	0.0986	Lin2	-0.008	0.1026			0.0100	4.1			0.9980		0.9900
p-Terphenyl-d14 (Surr)	0.9342	0.8969 0.9321	0.9267 0.9145	0.9929	0.9374	Ave		0.9335			0.0100	3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-431821/3	Y019355.D
Level 2	IC 480-431821/4	Y019356.D
Level 3	IC 480-431821/5	Y019357.D
Level 4	IC 480-431821/6	Y019358.D
Level 5	ICIS 480-431821/7	Y019359.D
Level 6	IC 480-431821/8	Y019360.D
Level 7	IC 480-431821/9	Y019361.D
Level 8	IC 480-431821/10	Y019362.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	378048	12025 579874	46216 800812	96833	193544	8.00	0.250 12.0	1.00 16.0	2.00	4.00
N-Nitrosodimethylamine	DCBd 4	Ave	484201	14012 729426	58413 1045061	121815	247935	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Pyridine	DCBd 4	Ave	1149526	30251 1699953	136204 2508305	279419	582498	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Benzaldehyde	DCBd 4	Ave	1584380	46724 2269805	196285 3062296	417563	841595	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Phenol	DCBd 4	Ave	1173720	33114 1783280	137038 2575105	294094	599992	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Aniline	DCBd 4	Ave	1389837	39439 2157354	168450 3000364	342283	692992	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd 4	Ave	930204	28033 1373735	110433 2038006	249038	498860	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Chlorophenol	DCBd 4	Ave	1056831	28132 1649001	122106 2367728	266779	533851	8.00	0.250 12.0	1.00 16.0	2.00	4.00
n-Decane	DCBd 4	Ave	897715	27305 1372483	111052 1972148	229527	466324	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,3-Dichlorobenzene	DCBd 4	Ave	1259756	36806 1941030	149053 2800209	315712	640437	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,4-Dichlorobenzene	DCBd 4	Ave	1288378	37448 1979750	154543 2829942	319021	653509	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzyl alcohol	DCBd 4	Ave	639144	15600 982162	68092 1400615	152051	320164	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2-Dichlorobenzene	DCBd 4	Ave	1226206	36350 1870815	147982 2702057	302863	618241	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Methylphenol	DCBd 4	Ave	902215	23852 1393374	105345 2007935	225225	451776	8.00	0.250 12.0	1.00 16.0	2.00	4.00
bis (2-chloroisopropyl) ether	DCBd 4	Ave	1263399	41015 1888779	162376 2740398	330357	659538	8.00	0.250 12.0	1.00 16.0	2.00	4.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCBd 4	Ave	8907083	277083 +++++	1170351 +++++	2413351	4819862	40.0	1.25 +++++	5.00 +++++	10.0	20.0
4-Methylphenol	DCBd 4	Ave	915893	24049 1418837	105971 2063627	227722	454915	8.00	0.250 12.0	1.00 16.0	2.00	4.00
N-Nitrosodi-n-propylamine	DCBd 4	Ave	634279	17571 1003372	76123 1451332	163909	327354	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acetophenone	DCBd 4	Ave	1297784	37287 1994323	158119 2916224	335896	651823	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexachloroethane	DCBd 4	Ave	489077	13696 743834	55215 1077844	118486	240807	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Nitrobenzene	NPT	Ave	992171	27151 1515474	116531 2211605	245452	497493	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Isophorone	NPT	Ave	1800973	47963 2747248	212190 3961868	447604	917460	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	980432	25702 1511331	111513 2206501	240838	499351	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Nitrophenol	NPT	Lin2	575658	12409 893760	59481 1322828	131922	275324	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	1076951	32220 1674546	130758 2417618	281455	555082	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzoic acid	NPT	Lin2	3158534	+++++ 5312832	225861 7936482	627237	1499636	40.0	+++++ 60.0	5.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Lin2	961348	22882 1483233	105127 2163221	229377	471809	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	1131073	31914 1740248	134508 2545711	278166	562777	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Naphthalene	NPT	Ave	43111 3155190	93251 4787100	380975 6652231	793213	1612430	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Chloroaniline	NPT	Ave	1076747	28557 1706871	131040 2419943	259763	555444	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,6-Dichlorophenol	NPT	Lin2	945092	24084 1496986	105807 2165074	231493	477536	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	689647	19377 1051461	77286 1555723	164533	335679	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Caprolactam	NPT	Lin2	550199	12818 849086	63674 1240964	137497	277930	16.0	0.500 24.0	2.00 32.0	4.00	8.00
4-Chloro-3-methylphenol	NPT	Lin2	786296	18483 1204318	88948 1757089	197390	391980	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	27721 2188262	60664 3304619	255096 4751616	549329	1115496	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	26926 2025532	57346 3149287	235561 4508605	512672	1033284	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Hexachlorocyclopentadiene	ANT	Lin2	817202	18817 1273077	80715 1909298	182275	390591	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	1215926	33996 1857958	138504 2698777	291085	602145	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Lin2	761638	15743 1204009	81327 1788028	170905	366951	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Lin2	750786	17329 1173874	81669 1735466	179170	370528	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Biphenyl	ANT	Ave	2638431	75543 4059411	311595 5756474	649975	1358401	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	2077843	60147 3219109	246258 4598835	521664	1054090	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Nitroaniline	ANT	Lin2	480637	8669 756167	47642 1094884	108128	236858	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	2314424	63948 3556720	270812 4550901	572114	1176182	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,3-Dinitrobenzene	NPT	Lin2	382201	5130 606930	34912 812171	79002	179740	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Lin2	553180	10967 860418	59067 1162541	133992	277228	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Lin2	37733 3242757	87588 4979095	377630 6953337	806468	1642403	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
3-Nitroaniline	ANT	Ave	299716	7638 562056	47686 +++++	92260	163313	8.00	0.250 12.0	1.00 +++++	2.00	4.00
2,4-Dinitrophenol	ANT	Lin2	652148	+++++ 1064034	38234 1631190	112059	282983	16.0	+++++ 24.0	2.00 32.0	4.00	8.00
Acenaphthene	ANT	Ave	30194 2231117	61562 3382106	260597 4814783	549115	1116869	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Nitrophenol	ANT	Lin2	545518	+++++ 883145	41671 1323727	104936	275393	16.0	+++++ 24.0	2.00 32.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Lin2	709265	12180 1113611	71784 1629105	161714	342693	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	2979710	86459 4553539	355284 6547667	758094	1540043	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Lin2	638221	13385 1025837	64960 1491255	145998	309460	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexadecane	ANT	Ave	1063716	29505 1648063	126471 2348309	263648	531336	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Diethyl phthalate	ANT	Ave	2290615	61923 3488775	260375 5035760	562457	1158514	8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Chlorophenyl phenyl ether	ANT	Ave	1224498	34033 1945987	141273 2796812	303994	615805	8.00	0.250 12.0	1.00 16.0	2.00	4.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Nitroaniline	ANT	Lin2	492254	+++++ 695226	56494 984494	112323	242447	8.00	+++++ 12.0	1.00 16.0	2.00	4.00
Fluorene	ANT	Ave	29859 2448421	66086 3790493	279410 5366019	602238	1243513	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Lin2	802894	8707 1299689	64101 1907928	161474	381457	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Diphenylamine	PHN	Ave	1710799	45418 2603176	199618 3824672	429925	874331	6.84	0.214 10.3	0.855 13.7	1.71	3.42
N-Nitrosodiphenylamine	PHN	Ave	1710799	45418 2603176	199618 3824672	429925	874331	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2-Diphenylhydrazine	PHN	Ave	2047862	54855 3173139	249952 4486844	512613	1047295	8.00	0.250 12.0	1.00 16.0	2.00	4.00
trans-Azobenzene	PHN	Ave	2047862	54855 3173139	249952 4486844	512613	1047295	8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	754774	19464 1178067	86145 1713013	181079	374926	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	753798	20449 1195251	85182 1786698	180392	373105	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Atrazine	ANT	Ave	1262768	33782 2007603	160291 2894635	336186	674834	16.0	0.500 24.0	2.00 32.0	4.00	8.00
n-Octadecane	PHN	Ave	1062642	29017 1625375	124953 2373975	263815	537322	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Pentachlorophenol	PHN	Lin2	916456	13743 1445294	79193 2228785	190779	420884	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Phenanthrene	PHN	Ave	46475 3577604	100578 5388430	428147 7533104	900020	1836963	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Anthracene	PHN	Ave	42160 3635058	93844 5497894	415956 7634434	900956	1849400	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Carbazole	PHN	Lin2	1660373	+++++ 2672043	350318 +++++	587676	972437	8.00	+++++ 12.0	1.00 +++++	2.00	4.00
Di-n-butyl phthalate	PHN	Lin2	3830710	90310 5680007	428353 +++++	928478	1911583	8.00	0.250 12.0	1.00 +++++	2.00	4.00
Fluoranthene	PHN	Ave	48164 4040236	104828 6110394	462688 8436188	995844	2043478	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzidine	CRY	Ave	2251364	70120 4018277	265665 +++++	479875	1034390	16.0	0.500 24.0	2.00 +++++	4.00	8.00
Pyrene	CRY	Ave	47293 4226418	104580 6330571	478325 8681712	1036138	2125575	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Butyl benzyl phthalate	CRY	Lin2	1702562	31005 2625831	169889 3772305	387612	830134	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Bis(2-ethylhexyl) phthalate	CRY	Lin2	2470911	38136 3789542	234574 5495412	559117	1177571	8.00	0.250 12.0	1.00 16.0	2.00	4.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1 Analy Batch No.: 431821

SDG No.:

Instrument ID: HP5973Y GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/28/2018 16:00 Calibration End Date: 08/28/2018 19:19 Calibration ID: 34649

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3,3'-Dichlorobenzidine	CRY	Ave	1997966	60860 3341918	279530 5647584	527066	980180	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Benzo[a]anthracene	CRY	Ave	49884 4039275	108387 6203896	459231 8928788	980093	2015926	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Chrysene	CRY	Ave	48006 3741114	101379 5678344	425814 8180673	921945	1880247	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Di-n-octyl phthalate	CRY	Lin2	4049720	58651 6181655	351402 9041596	867891	1907764	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo[b]fluoranthene	PRY	Lin2	40395 3911758	90571 5753259	402830 8598450	866237	1872661	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo[k]fluoranthene	PRY	Lin2	42253 3843071	96526 5950449	431384 8193914	940659	2015826	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo[a]pyrene	PRY	Lin2	35163 3637942	78849 5702718	383350 8302611	853066	1784910	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Indeno[1,2,3-cd]pyrene	PRY	Lin2	44294 4236445	95785 6474532	434355 9578291	939468	1998321	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Lin2	35222 3534543	79052 5452320	352566 8005673	792338	1673265	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo[g,h,i]perylene	PRY	Lin2	37419 3491110	82805 5308565	365119 7955150	797097	1682205	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Fluorophenol (Surr)	DCBd 4	Ave	1045576	27734 1596105	116405 2245376	248302	524773	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Phenol-d5 (Surr)	DCBd 4	Ave	1256125	33434 1954431	148785 2803746	320160	644815	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5 (Surr)	NPT	Ave	1239332	33745 1906651	142937 2761222	306372	624067	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	2811150	79702 4349719	330514 6188865	706486	1429308	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4,6-Tribromophenol (Surr)	PHN	Lin2	332304	6574 538467	33499 783309	75211	159068	8.00	0.250 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14 (Surr)	CRY	Ave	3116674	79725 4592148	339703 6691201	753798	1506535	8.00	0.250 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019355.D
Lims ID: IC - List 1 - 0.125
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Aug-2018 16:00:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-003
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:47:48 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 12:47:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.645	6.642	0.003	94	384860	4.00	4.00	
* 2 Naphthalene-d8	136	7.735	7.732	0.003	99	1359895	4.00	4.00	
* 3 Acenaphthene-d10	164	9.225	9.222	0.003	95	727478	4.00	4.00	
* 4 Phenanthrene-d10	188	10.485	10.488	-0.003	97	1346291	4.00	4.00	
* 5 Chrysene-d12	240	13.273	13.276	-0.003	99	1293128	4.00	4.00	
* 6 Perylene-d12	264	15.554	15.551	0.003	98	1298417	4.00	4.00	
74 Naphthalene	128	7.751	7.752	-0.001	96	43111	0.1250	0.1236	
87 2-Methylnaphthalene	142	8.333	8.334	-0.001	91	27721	0.1250	0.1168	
89 1-Methylnaphthalene	142	8.418	8.419	-0.001	92	26926	0.1250	0.1206	
108 Acenaphthylene	152	9.107	9.108	-0.001	98	37733	0.1250	0.1239	
110 Acenaphthene	153	9.252	9.252	0.000	95	30194	0.1250	0.1271	
124 Fluorene	166	9.684	9.685	-0.001	93	29859	0.1250	0.1159	
151 Phenanthrene	178	10.507	10.508	-0.001	95	46475	0.1250	0.1259	
152 Anthracene	178	10.549	10.550	-0.001	96	42160	0.1250	0.1161	
164 Fluoranthene	202	11.564	11.565	-0.001	97	48164	0.1250	0.1191	
167 Pyrene	202	11.805	11.811	-0.006	97	47293	0.1250	0.1161	
180 Benzo[a]anthracene	228	13.257	13.264	-0.007	97	49884	0.1250	0.1242	
182 Chrysene	228	13.311	13.317	-0.006	96	48006	0.1250	0.1282	
186 Benzo[b]fluoranthene	252	14.913	14.919	-0.006	96	40395	0.1250	0.1280	
187 Benzo[k]fluoranthene	252	14.956	14.962	-0.006	98	42253	0.1250	0.1261	
189 Benzo[a]pyrene	252	15.458	15.464	-0.006	77	35163	0.1250	0.1300	
193 Indeno[1,2,3-cd]pyrene	276	17.466	17.478	-0.012	94	44294	0.1250	0.1296	
194 Dibenz(a,h)anthracene	278	17.482	17.494	-0.012	89	35222	0.1250	0.1293	
195 Benzo[g,h,i]perylene	276	18.032	18.055	-0.023	96	37419	0.1250	0.1282	

Reagents:

MB_L1LVI_WRK_00333 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00152 Amount Added: 20.00 Units: uL Run Reagent

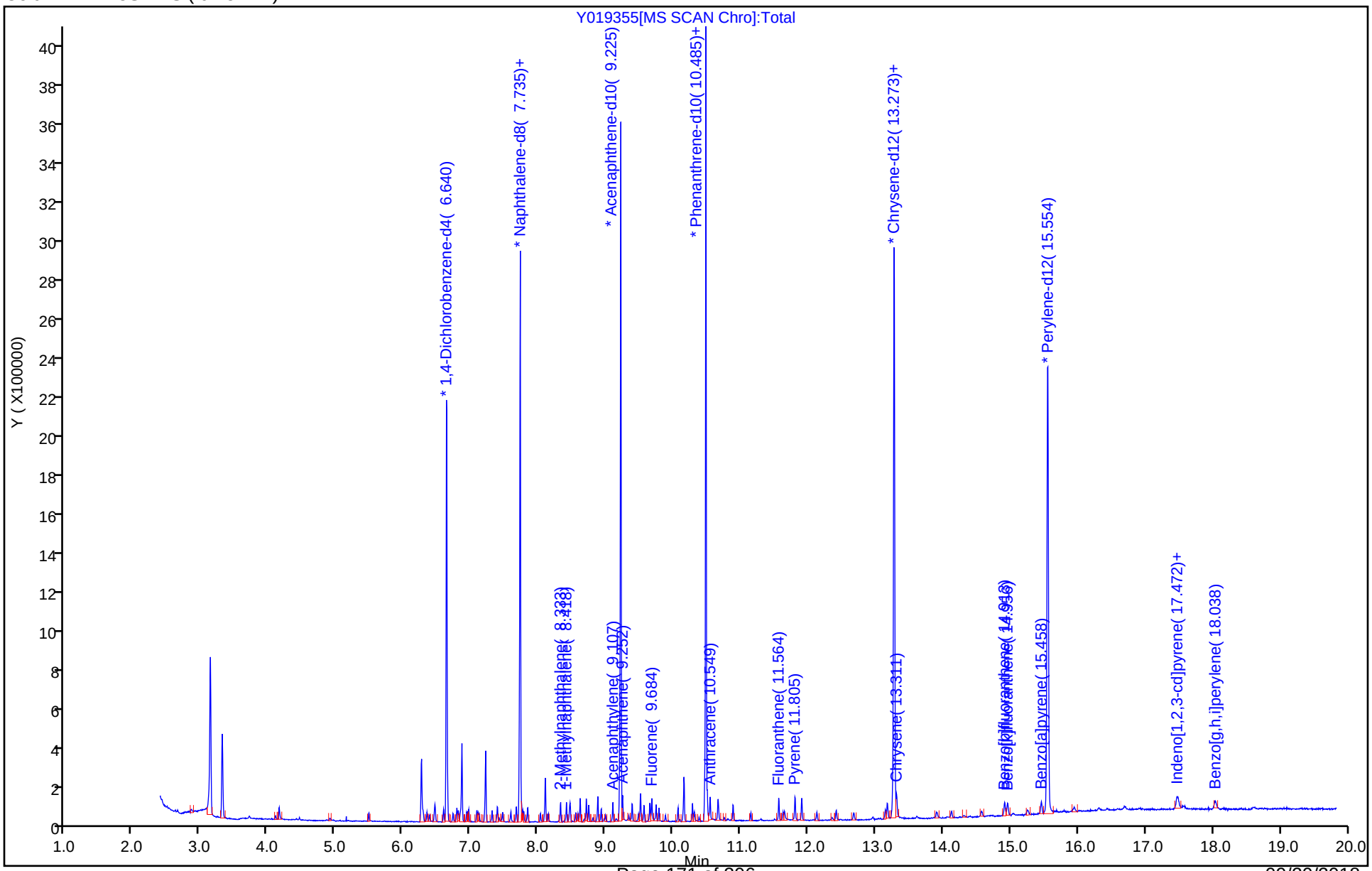
Report Date: 29-Aug-2018 12:47:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019355.D

Injection Date:	28-Aug-2018 16:00:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 0.125			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019356.D
Lims ID: IC - List 1 - 0.25
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Aug-2018 16:28:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-004
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:38:41 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 10:08:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.641	6.645	-0.005	94	400911	4.00	4.00	
* 2 Naphthalene-d8	136	7.735	7.735	0.000	99	1432509	4.00	4.00	
* 3 Acenaphthene-d10	164	9.226	9.225	0.001	95	773678	4.00	4.00	
* 4 Phenanthrene-d10	188	10.486	10.485	0.001	97	1497109	4.00	4.00	
* 5 Chrysene-d12	240	13.274	13.279	-0.005	99	1422155	4.00	4.00	
* 6 Perylene-d12	264	15.549	15.554	-0.005	97	1408338	4.00	4.00	
$ 7 2-Fluorophenol	112	5.487	5.487	0.000	90	27734	0.2500	0.2367	
$ 8 Phenol-d5	99	6.283	6.283	0.000	96	33434	0.2500	0.2302	
$ 9 Nitrobenzene-d5	82	7.111	7.111	0.000	86	33745	0.2500	0.2365	
$ 10 2-Fluorobiphenyl	172	8.622	8.622	0.000	99	79702	0.2500	0.2471	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	92	6574	0.2500	0.2534	
$ 12 p-Terphenyl-d14	244	11.907	11.907	0.000	100	79725	0.2500	0.2402	
13 1,4-Dioxane	88	3.719	3.714	0.005	92	12025	0.2500	0.2693	
14 N-Nitrosodimethylamine	42	4.104	4.098	0.006	89	14012	0.2500	0.2496	
15 Pyridine	52	4.157	4.146	0.011	96	30251	0.5000	0.4646	
35 Benzaldehyde	77	6.267	6.267	0.000	94	46724	0.5000	0.5097	
37 Phenol	94	6.293	6.299	-0.006	97	33114	0.2500	0.2448	
36 Aniline	93	6.352	6.352	0.000	98	39439	0.2500	0.2459	
39 Bis(2-chloroethyl)ether	93	6.389	6.390	-0.001	93	28033	0.2500	0.2551	
40 2-Chlorophenol	128	6.464	6.464	0.000	96	28132	0.2500	0.2317	
41 n-Decane	57	6.470	6.470	0.000	93	27305	0.2500	0.2572	
43 1,3-Dichlorobenzene	146	6.598	6.598	0.000	99	36806	0.2500	0.2510	
44 1,4-Dichlorobenzene	146	6.657	6.657	0.000	93	37448	0.2500	0.2504	
45 Benzyl alcohol	108	6.737	6.737	0.000	94	15600	0.2500	0.2207	
46 1,2-Dichlorobenzene	146	6.795	6.796	-0.001	97	36350	0.2500	0.2548	
48 2-Methylphenol	108	6.817	6.817	0.000	94	23852	0.2500	0.2312	
49 2,2'-oxybis[1-chloropropan	45	6.843	6.849	-0.006	92	41015	0.2500	0.2704	
47 Indene	115	6.870	6.870	0.000	89	277083	1.25	1.25	
57 4-Methylphenol	108	6.940	6.940	0.000	97	24049	0.2500	0.2300	
53 N-Nitrosodi-n-propylamine	70	6.956	6.956	0.000	90	17571	0.2500	0.2358	
52 Acetophenone	105	6.972	6.972	0.000	97	37287	0.2500	0.2453	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.089	7.089	0.000	90	13696	0.2500	0.2467	
59 Nitrobenzene	77	7.127	7.127	0.000	87	27151	0.2500	0.2372	
62 Isophorone	82	7.319	7.319	0.000	99	47963	0.2500	0.2314	
66 2,4-Dimethylphenol	107	7.394	7.394	0.000	94	25702	0.2500	0.2287	
64 2-Nitrophenol	139	7.399	7.399	0.000	90	12409	0.2500	0.2532	
69 Bis(2-chloroethoxy)methane	93	7.474	7.474	0.000	99	32220	0.2500	0.2510	
70 Benzoic acid	105	7.420	7.490	-0.070	83	24918	1.25	2.64	
72 2,4-Dichlorophenol	162	7.597	7.597	0.000	91	22882	0.2500	0.2509	
73 1,2,4-Trichlorobenzene	180	7.677	7.677	0.000	94	31914	0.2500	0.2430	
74 Naphthalene	128	7.751	7.752	-0.001	96	93251	0.2500	0.2538	
76 4-Chloroaniline	127	7.773	7.773	0.000	97	28557	0.2500	0.2280	M
77 2,6-Dichlorophenol	162	7.783	7.789	-0.006	97	24084	0.2500	0.2510	
79 Hexachlorobutadiene	225	7.842	7.842	0.000	94	19377	0.2500	0.2462	
84 Caprolactam	113	8.035	8.067	-0.032	80	12818	0.5000	0.4956	
85 4-Chloro-3-methylphenol	107	8.152	8.152	0.000	94	18483	0.2500	0.2485	
87 2-Methylnaphthalene	142	8.334	8.334	0.000	91	60664	0.2500	0.2426	
89 1-Methylnaphthalene	142	8.419	8.419	0.000	92	57346	0.2500	0.2439	
90 Hexachlorocyclopentadiene	237	8.467	8.467	0.000	92	18817	0.2500	0.2555	
91 1,2,4,5-Tetrachlorobenzene	216	8.472	8.478	-0.006	95	33996	0.2500	0.2480	
93 2,4,6-Trichlorophenol	196	8.558	8.558	0.000	89	15743	0.2500	0.2516	
94 2,4,5-Trichlorophenol	196	8.590	8.590	0.000	93	17329	0.2500	0.2507	M
96 1,1'-Biphenyl	154	8.713	8.713	0.000	95	75543	0.2500	0.2498	
97 2-Chloronaphthalene	162	8.750	8.750	0.000	95	60147	0.2500	0.2511	
100 2-Nitroaniline	65	8.809	8.815	-0.006	89	8669	0.2500	0.2530	
105 Dimethyl phthalate	163	8.937	8.937	0.000	99	63948	0.2500	0.2464	
106 1,3-Dinitrobenzene	168	8.975	8.980	-0.005	83	5130	0.2500	0.2548	
107 2,6-Dinitrotoluene	165	8.996	9.001	-0.005	94	10967	0.2500	0.2485	
108 Acenaphthylene	152	9.108	9.108	0.000	98	87588	0.2500	0.2518	
109 3-Nitroaniline	138	9.151	9.156	-0.005	96	7638	0.2500	0.1962	
111 2,4-Dinitrophenol	184	9.236	9.242	-0.006	55	3901	0.5000	1.24	
110 Acenaphthene	153	9.252	9.252	0.000	95	61562	0.2500	0.2437	
112 4-Nitrophenol	109	9.258	9.258	0.000	33	5486	0.5000	0.9776	a
114 2,4-Dinitrotoluene	165	9.343	9.349	-0.006	94	12180	0.2500	0.2517	
115 Dibenzofuran	168	9.391	9.397	-0.006	97	86459	0.2500	0.2510	
118 2,3,4,6-Tetrachlorophenol	232	9.487	9.488	-0.001	70	13385	0.2500	0.2536	
121 Hexadecane	57	9.514	9.514	0.000	95	29505	0.2500	0.2430	
120 Diethyl phthalate	149	9.519	9.520	-0.001	98	61923	0.2500	0.2399	
123 4-Chlorophenyl phenyl ethe	204	9.653	9.658	-0.005	89	34033	0.2500	0.2421	
126 4-Nitroaniline	138	9.669	9.674	-0.005	87	9156	0.2500	0.0977	
124 Fluorene	166	9.685	9.685	0.000	94	66086	0.2500	0.2412	
127 4,6-Dinitro-2-methylphenol	198	9.696	9.696	0.000	93	8707	0.5000	0.5192	
129 Diphenylamine	169	9.749	9.749	0.000	94	45418	0.2138	0.1985	
130 N-Nitrosodiphenylamine	169	9.749	9.749	0.000	62	45418	0.2500	0.2322	
131 1,2-Diphenylhydrazine	77	9.792	9.792	0.000	41	54855	0.2500	0.2326	
132 Azobenzene	77	9.792	9.792	0.000	98	54855	0.2500	0.2326	
139 4-Bromophenyl phenyl ether	248	10.075	10.075	0.000	63	19464	0.2500	0.2283	
143 Atrazine	200	10.160	10.166	-0.006	94	33782	0.5000	0.4530	
140 Hexachlorobenzene	284	10.160	10.166	-0.006	90	20449	0.2500	0.2370	
148 n-Octadecane	57	10.288	10.289	-0.001	93	29017	0.2500	0.2383	
145 Pentachlorophenol	266	10.315	10.315	0.000	93	13743	0.5000	0.5164	
151 Phenanthrene	178	10.507	10.508	-0.001	97	100578	0.2500	0.2450	
152 Anthracene	178	10.550	10.550	0.000	97	93844	0.2500	0.2324	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.662	10.672	-0.010	96	79902	0.2500	-0.5718	
157 Di-n-butyl phthalate	149	10.887	10.887	0.000	100	90310	0.2500	0.2478	
164 Fluoranthene	202	11.565	11.565	0.000	98	104828	0.2500	0.2332	
166 Benzidine	184	11.650	11.651	-0.001	99	70120	0.5000	0.5530	
167 Pyrene	202	11.805	11.811	-0.006	97	104580	0.2500	0.2335	
174 Butyl benzyl phthalate	149	12.414	12.414	0.000	97	31005	0.2500	0.2512	
181 Bis(2-ethylhexyl) phthalat	149	13.146	13.146	0.000	95	38136	0.2500	0.2520	
179 3,3'-Dichlorobenzidine	252	13.173	13.178	-0.005	73	60860	0.5000	0.4992	
180 Benzo[a]anthracene	228	13.258	13.264	-0.006	98	108387	0.2500	0.2453	
182 Chrysene	228	13.311	13.317	-0.006	96	101379	0.2500	0.2462	
184 Di-n-octyl phthalate	149	14.123	14.129	-0.006	98	58651	0.2500	0.2555	
186 Benzo[b]fluoranthene	252	14.914	14.919	-0.005	96	90571	0.2500	0.2399	
187 Benzo[k]fluoranthene	252	14.957	14.962	-0.005	99	96526	0.2500	0.2437	
189 Benzo[a]pyrene	252	15.459	15.464	-0.005	77	78849	0.2500	0.2311	
193 Indeno[1,2,3-cd]pyrene	276	17.467	17.478	-0.011	98	95785	0.2500	0.2343	
194 Dibenz(a,h)anthracene	278	17.478	17.494	-0.016	90	79052	0.2500	0.2364	
195 Benzo[g,h,i]perylene	276	18.033	18.055	-0.022	97	82805	0.2500	0.2392	
S 263 3-Methylphenol	1				0			0.2300	
S 262 3 & 4 Methylphenol	108				0			0.2300	
S 261 Total Cresols	1				0			0.4612	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00334	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

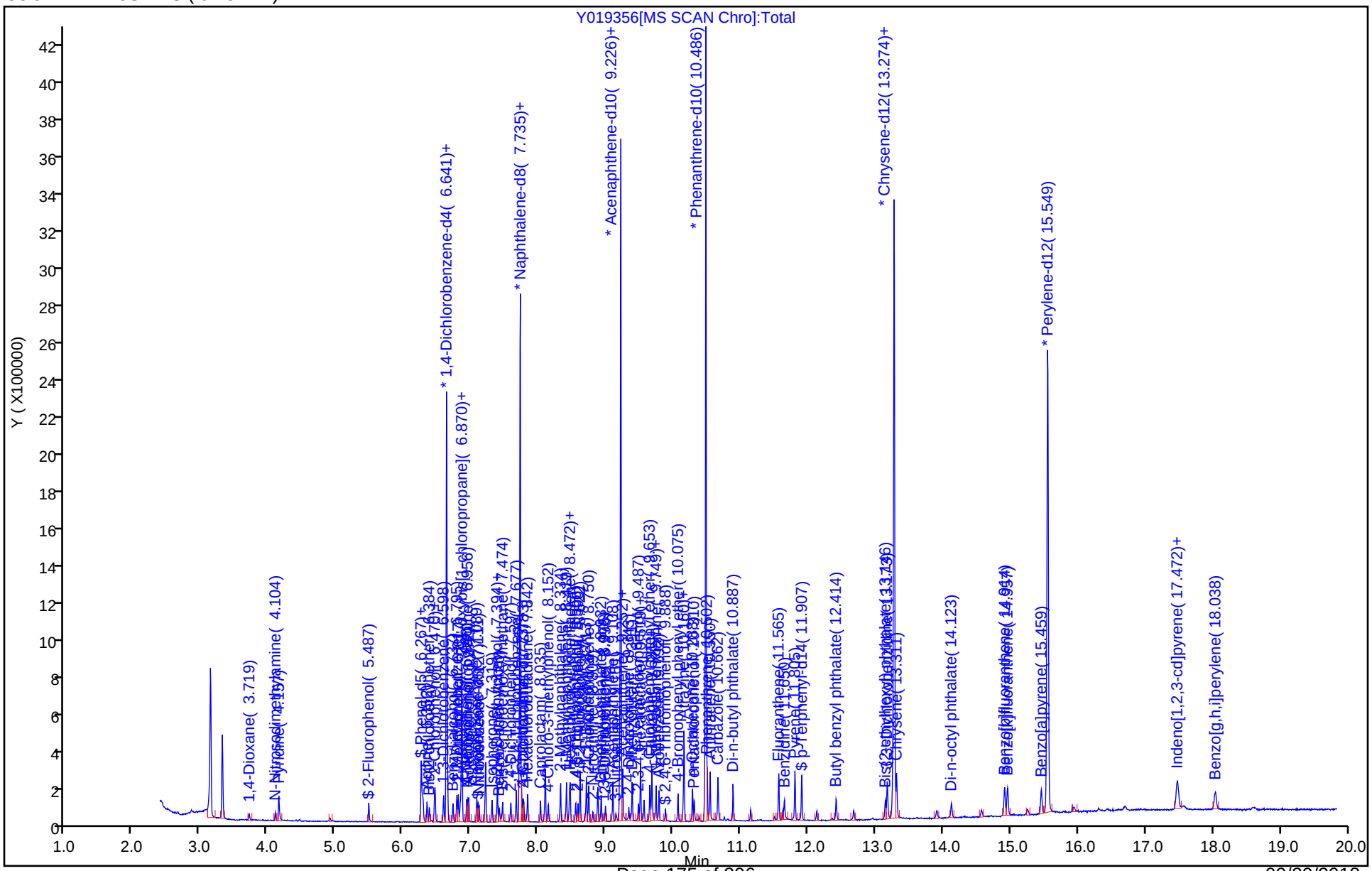
Report Date: 29-Aug-2018 12:38:43 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019356.D

Injection Date:	28-Aug-2018 16:28:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 0.25			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

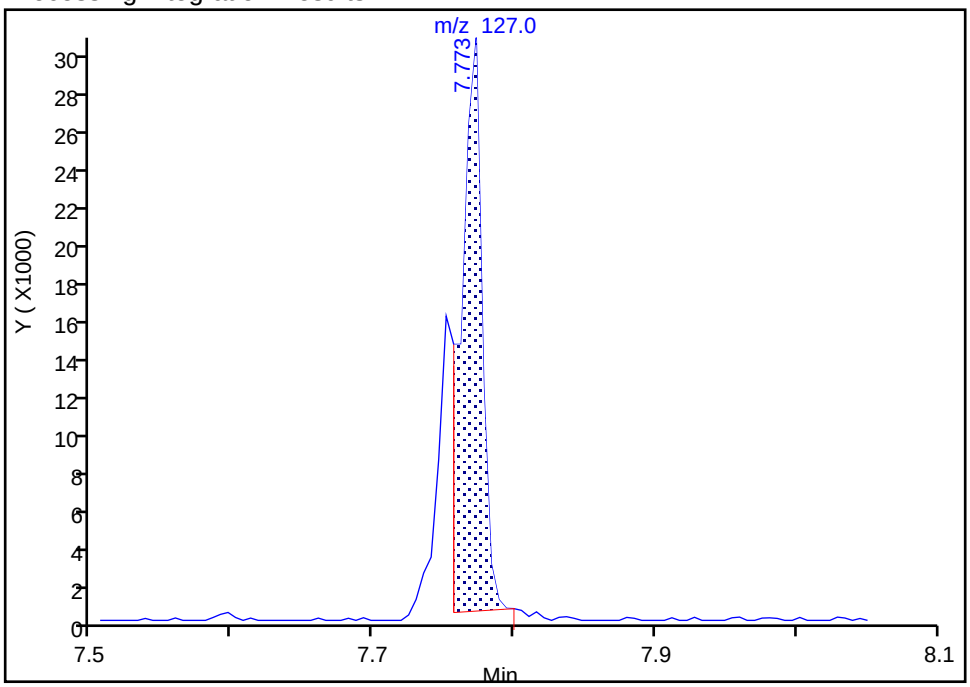
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019356.D
Injection Date: 28-Aug-2018 16:28:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.25
Client ID:
Operator ID: BS ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 4-Chloroaniline, CAS: 106-47-8

Signal: 1

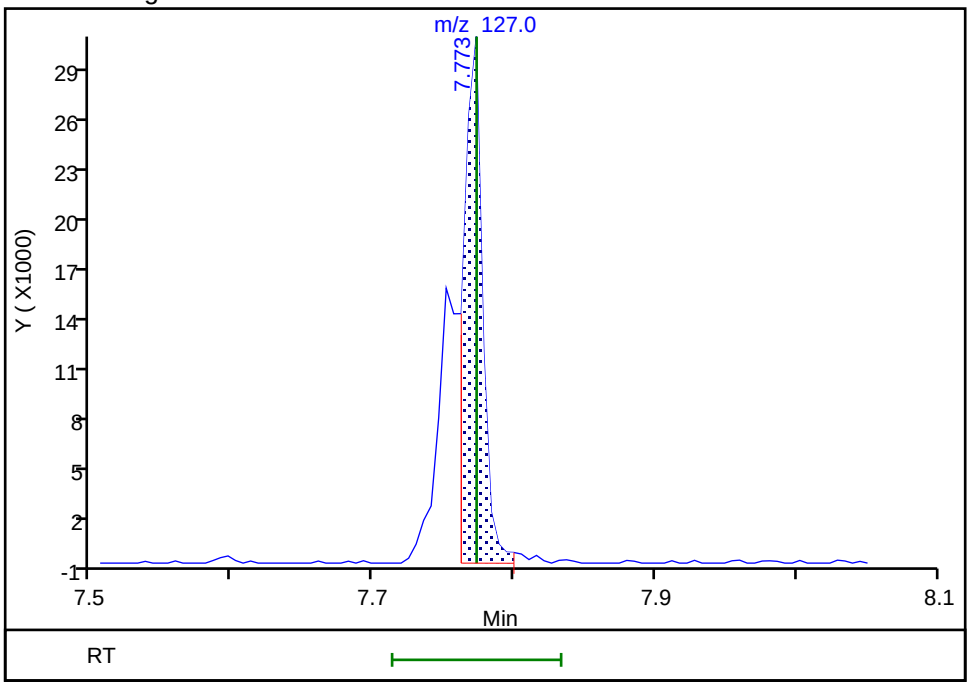
Processing Integration Results

RT: 7.77
Area: 31716
Amount: 0.249617
Amount Units: ng/uL



Manual Integration Results

RT: 7.77
Area: 28557
Amount: 0.227993
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:07:20
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

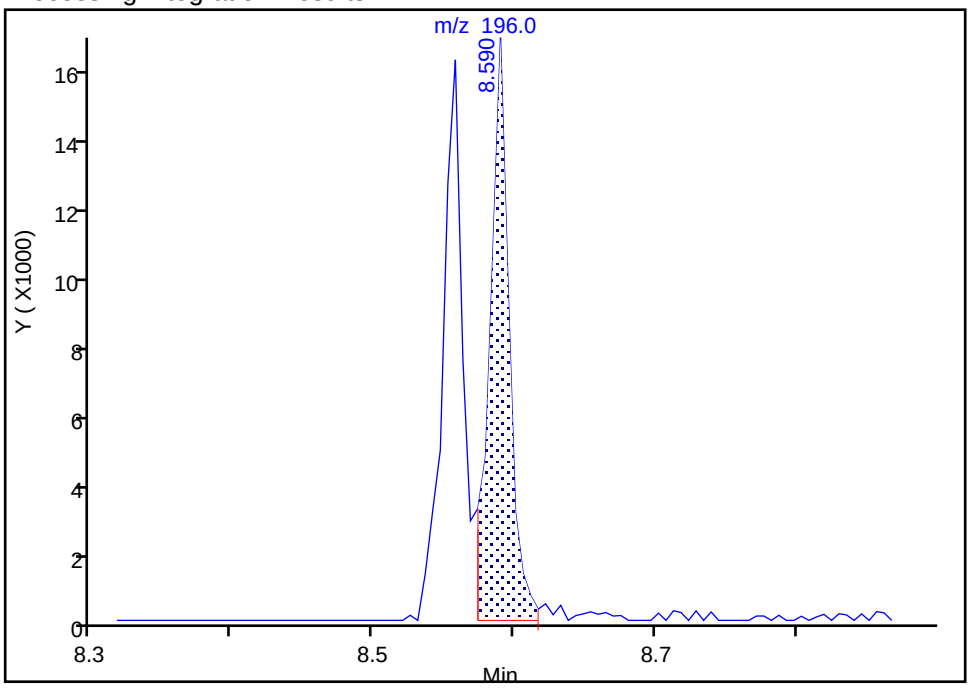
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019356.D
Injection Date: 28-Aug-2018 16:28:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.25
Client ID:
Operator ID: BS ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

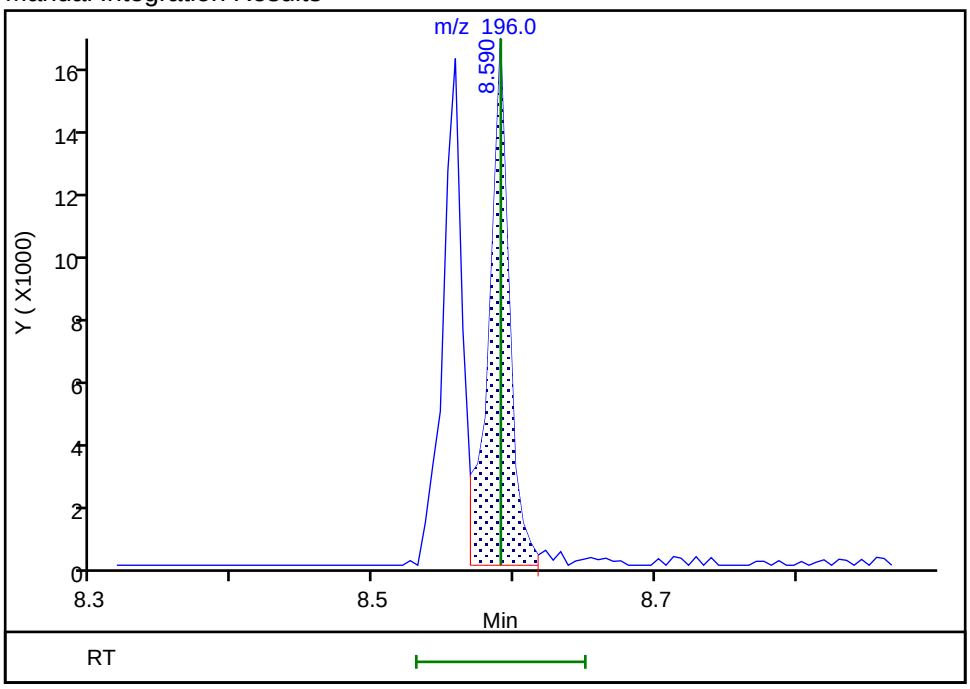
Processing Integration Results

RT: 8.59
Area: 16395
Amount: 0.199558
Amount Units: ng/uL



Manual Integration Results

RT: 8.59
Area: 17329
Amount: 0.250709
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:07:48
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

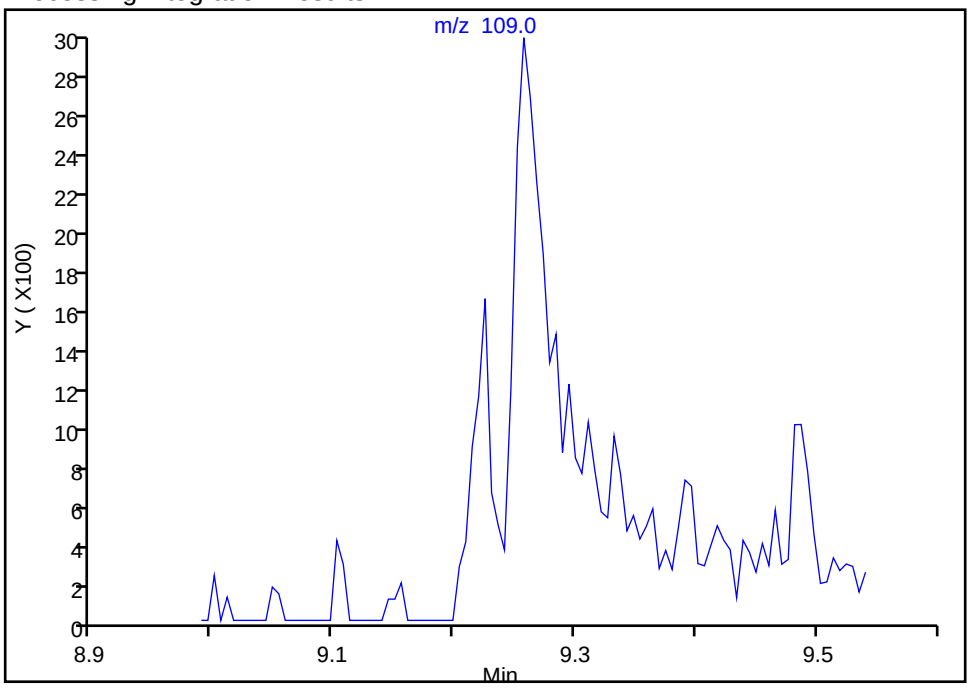
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019356.D
Injection Date: 28-Aug-2018 16:28:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.25
Client ID:
Operator ID: BS ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

112 4-Nitrophenol, CAS: 100-02-7

Signal: 1

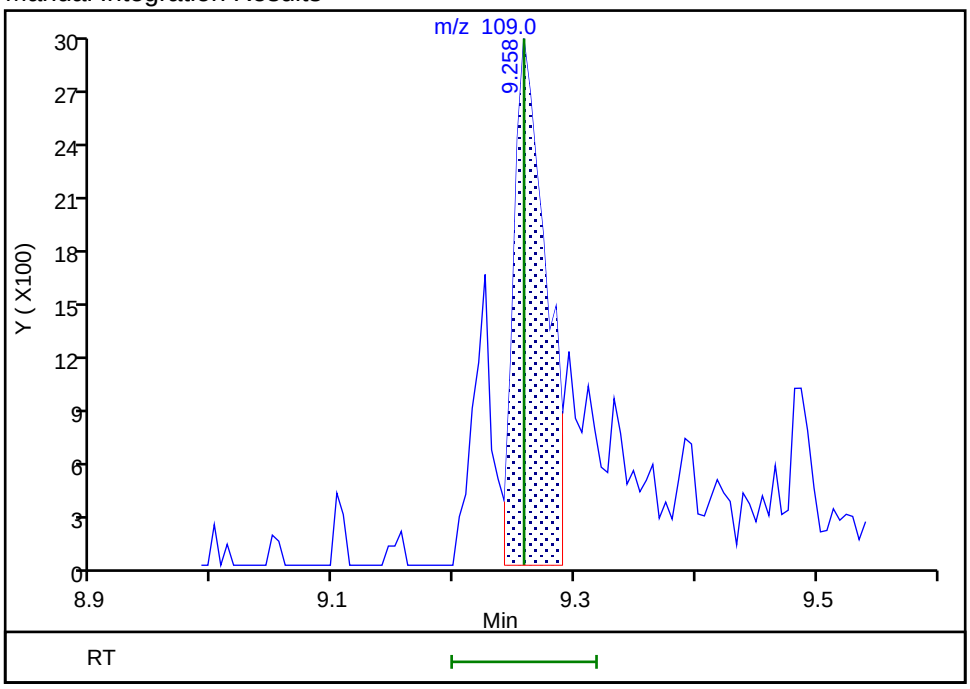
Not Detected
Expected RT: 9.26

Processing Integration Results



Manual Integration Results

RT: 9.26
Area: 5486
Amount: 0.977643
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:08:04
Audit Action: Assigned Compound ID Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019357.D
Lims ID: IC - List 1 - 1.0
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Aug-2018 16:57:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-005
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:38:59 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 10:09:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.644	6.645	-0.001	94	395062	4.00	4.00	
* 2 Naphthalene-d8	136	7.734	7.735	-0.001	99	1420759	4.00	4.00	
* 3 Acenaphthene-d10	164	9.224	9.225	-0.001	97	766985	4.00	4.00	
* 4 Phenanthrene-d10	188	10.485	10.485	0.000	97	1476371	4.00	4.00	
* 5 Chrysene-d12	240	13.278	13.279	-0.001	99	1466261	4.00	4.00	
* 6 Perylene-d12	264	15.553	15.554	-0.001	98	1423175	4.00	4.00	
$ 7 2-Fluorophenol	112	5.491	5.487	0.004	92	116405	1.00	1.01	
$ 8 Phenol-d5	99	6.281	6.283	-0.002	95	148785	1.00	1.04	
$ 9 Nitrobenzene-d5	82	7.109	7.111	-0.002	87	142937	1.00	1.01	
$ 10 2-Fluorobiphenyl	172	8.621	8.622	-0.001	99	330514	1.00	1.03	
$ 11 2,4,6-Tribromophenol	330	9.886	9.888	-0.002	93	33499	1.00	0.9670	
$ 12 p-Terphenyl-d14	244	11.905	11.907	-0.002	100	339703	1.00	0.99	
13 1,4-Dioxane	88	3.718	3.714	0.004	93	46216	1.00	1.05	
14 N-Nitrosodimethylamine	42	4.102	4.098	0.004	91	58413	1.00	1.06	
15 Pyridine	52	4.150	4.146	0.004	97	136204	2.00	2.12	
35 Benzaldehyde	77	6.265	6.267	-0.002	95	196285	2.00	2.17	
37 Phenol	94	6.297	6.299	-0.002	98	137038	1.00	1.03	
36 Aniline	93	6.351	6.352	-0.001	99	168450	1.00	1.07	
39 Bis(2-chloroethyl)ether	93	6.388	6.390	-0.002	96	110433	1.00	1.02	
40 2-Chlorophenol	128	6.463	6.464	-0.001	95	122106	1.00	1.02	
41 n-Decane	57	6.474	6.470	0.004	94	111052	1.00	1.06	
43 1,3-Dichlorobenzene	146	6.596	6.598	-0.002	99	149053	1.00	1.03	
44 1,4-Dichlorobenzene	146	6.655	6.657	-0.002	97	154543	1.00	1.05	
45 Benzyl alcohol	108	6.735	6.737	-0.002	92	68092	1.00	0.9775	
46 1,2-Dichlorobenzene	146	6.794	6.796	-0.002	98	147982	1.00	1.05	
48 2-Methylphenol	108	6.815	6.817	-0.002	95	105345	1.00	1.04	
49 2,2'-oxybis[1-chloropropan	45	6.847	6.849	-0.002	92	162376	1.00	1.09	
47 Indene	115	6.869	6.870	-0.001	89	1170351	5.00	5.34	
57 4-Methylphenol	108	6.938	6.940	-0.002	97	105971	1.00	1.03	
53 N-Nitrosodi-n-propylamine	70	6.954	6.956	-0.002	89	76123	1.00	1.04	
52 Acetophenone	105	6.970	6.972	-0.002	96	158119	1.00	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.093	7.089	0.004	91	55215	1.00	1.01	
59 Nitrobenzene	77	7.125	7.127	-0.002	85	116531	1.00	1.03	
62 Isophorone	82	7.317	7.319	-0.002	99	212190	1.00	1.03	
66 2,4-Dimethylphenol	107	7.392	7.394	-0.002	89	111513	1.00	1.00	
64 2-Nitrophenol	139	7.398	7.399	-0.001	73	59481	1.00	0.9691	
69 Bis(2-chloroethoxy)methane	93	7.472	7.474	-0.002	99	130758	1.00	1.03	
70 Benzoic acid	105	7.446	7.490	-0.044	89	225861	5.00	5.14	
72 2,4-Dichlorophenol	162	7.595	7.597	-0.002	90	105127	1.00	1.00	
73 1,2,4-Trichlorobenzene	180	7.675	7.677	-0.002	93	134508	1.00	1.03	
74 Naphthalene	128	7.750	7.752	-0.002	98	380975	1.00	1.05	
76 4-Chloroaniline	127	7.771	7.773	-0.002	97	131040	1.00	1.05	
77 2,6-Dichlorophenol	162	7.787	7.789	-0.002	97	105807	1.00	0.99	
79 Hexachlorobutadiene	225	7.846	7.842	0.004	95	77286	1.00	0.99	
84 Caprolactam	113	8.044	8.067	-0.023	80	63674	2.00	2.07	
85 4-Chloro-3-methylphenol	107	8.151	8.152	-0.001	93	88948	1.00	1.02	
87 2-Methylnaphthalene	142	8.332	8.334	-0.002	92	255096	1.00	1.03	
89 1-Methylnaphthalene	142	8.418	8.419	-0.001	92	235561	1.00	1.01	
90 Hexachlorocyclopentadiene	237	8.466	8.467	-0.001	95	80715	1.00	0.9389	
91 1,2,4,5-Tetrachlorobenzene	216	8.476	8.478	-0.002	96	138504	1.00	1.02	
93 2,4,6-Trichlorophenol	196	8.557	8.558	-0.001	90	81327	1.00	1.01	
94 2,4,5-Trichlorophenol	196	8.589	8.590	-0.001	94	81669	1.00	1.00	
96 1,1'-Biphenyl	154	8.717	8.713	0.004	95	311595	1.00	1.04	
97 2-Chloronaphthalene	162	8.749	8.750	-0.001	95	246258	1.00	1.04	
100 2-Nitroaniline	65	8.813	8.815	-0.002	91	47642	1.00	0.9711	
105 Dimethyl phthalate	163	8.936	8.937	-0.001	100	270812	1.00	1.05	
106 1,3-Dinitrobenzene	168	8.979	8.980	-0.001	93	34912	1.00	0.9512	
107 2,6-Dinitrotoluene	165	9.000	9.001	-0.001	94	59067	1.00	1.02	
108 Acenaphthylene	152	9.107	9.108	-0.001	98	377630	1.00	1.04	
109 3-Nitroaniline	138	9.155	9.156	-0.001	97	47686	1.00	1.24	
111 2,4-Dinitrophenol	184	9.240	9.242	-0.002	80	38234	2.00	2.10	
110 Acenaphthene	153	9.251	9.252	-0.001	95	260597	1.00	1.04	
112 4-Nitrophenol	109	9.256	9.258	-0.002	85	41671	2.00	2.07	
114 2,4-Dinitrotoluene	165	9.342	9.349	-0.007	95	71784	1.00	0.99	
115 Dibenzofuran	168	9.395	9.397	-0.002	97	355284	1.00	1.04	
118 2,3,4,6-Tetrachlorophenol	232	9.486	9.488	-0.002	70	64960	1.00	0.9665	
121 Hexadecane	57	9.513	9.514	-0.001	95	126471	1.00	1.05	
120 Diethyl phthalate	149	9.518	9.520	-0.002	99	260375	1.00	1.02	
123 4-Chlorophenyl phenyl ethe	204	9.657	9.658	-0.001	88	141273	1.00	1.01	
126 4-Nitroaniline	138	9.673	9.674	-0.001	89	56494	1.00	1.01	
124 Fluorene	166	9.684	9.685	-0.001	93	279410	1.00	1.03	
127 4,6-Dinitro-2-methylphenol	198	9.694	9.696	-0.002	95	64101	2.00	1.75	
130 N-Nitrosodiphenylamine	169	9.748	9.749	-0.001	63	199618	1.00	1.03	
129 Diphenylamine	169	9.748	9.749	-0.001	93	199618	0.8550	0.8848	
132 Azobenzene	77	9.790	9.792	-0.002	97	249952	1.00	1.07	
131 1,2-Diphenylhydrazine	77	9.790	9.792	-0.002	41	249952	1.00	1.07	
139 4-Bromophenyl phenyl ether	248	10.073	10.075	-0.002	64	86145	1.00	1.02	
140 Hexachlorobenzene	284	10.164	10.166	-0.002	76	85182	1.00	1.00	
143 Atrazine	200	10.164	10.166	-0.002	94	160291	2.00	2.17	
148 n-Octadecane	57	10.287	10.289	-0.002	94	124953	1.00	1.04	
145 Pentachlorophenol	266	10.314	10.315	-0.001	93	79193	2.00	1.80	
151 Phenanthrene	178	10.506	10.508	-0.002	97	428147	1.00	1.06	
152 Anthracene	178	10.549	10.550	-0.001	97	415956	1.00	1.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.661	10.672	-0.011	95	350318	1.00	0.9828	
157 Di-n-butyl phthalate	149	10.891	10.887	0.004	99	428353	1.00	1.03	
164 Fluoranthene	202	11.569	11.565	0.004	98	462688	1.00	1.04	
166 Benzidine	184	11.649	11.651	-0.002	99	265665	2.00	2.03	
167 Pyrene	202	11.809	11.811	-0.002	97	478325	1.00	1.04	
174 Butyl benzyl phthalate	149	12.418	12.414	0.004	96	169889	1.00	0.9698	
181 Bis(2-ethylhexyl) phthalat	149	13.145	13.146	-0.001	94	234574	1.00	0.9552	
179 3,3'-Dichlorobenzidine	252	13.177	13.178	-0.001	73	279530	2.00	2.22	
180 Benzo[a]anthracene	228	13.262	13.264	-0.002	99	459231	1.00	1.01	
182 Chrysene	228	13.315	13.317	-0.002	96	425814	1.00	1.00	
184 Di-n-octyl phthalate	149	14.127	14.129	-0.002	99	351402	1.00	0.9064	
186 Benzo[b]fluoranthene	252	14.918	14.919	-0.001	97	402830	1.00	0.9770	
187 Benzo[k]fluoranthene	252	14.955	14.962	-0.007	99	431384	1.00	1.01	
189 Benzo[a]pyrene	252	15.457	15.464	-0.007	78	383350	1.00	0.9776	
193 Indeno[1,2,3-cd]pyrene	276	17.465	17.478	-0.013	98	434355	1.00	0.9671	
194 Dibenz(a,h)anthracene	278	17.487	17.494	-0.007	91	352566	1.00	0.9441	
195 Benzo[g,h,i]perylene	276	18.042	18.055	-0.013	96	365119	1.00	0.9715	
S 261 Total Cresols	1				0			2.06	
S 263 3-Methylphenol	1				0			1.03	
S 262 3 & 4 Methylphenol	108				0			1.03	

Reagents:

MB_L1LVI_WRK_00335	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

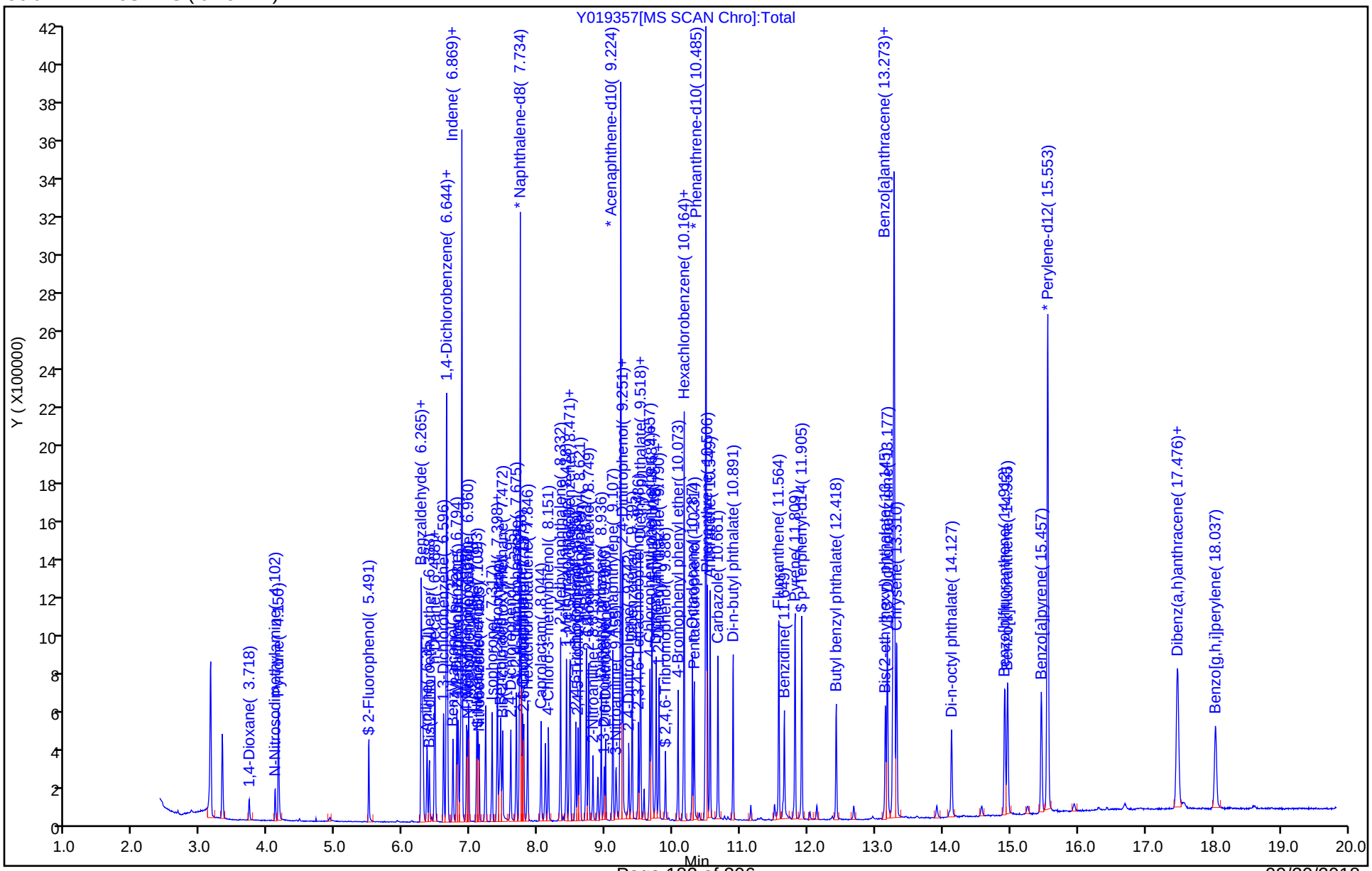
Report Date: 29-Aug-2018 12:39:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019357.D

Injection Date:	28-Aug-2018 16:57:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 1.0			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019358.D
Lims ID: IC - List 1 - 2.0
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Aug-2018 17:25:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-006
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:39:13 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 10:09:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.641	6.645	-0.004	94	429825	4.00	4.00	
* 2 Naphthalene-d8	136	7.736	7.735	0.001	99	1532771	4.00	4.00	
* 3 Acenaphthene-d10	164	9.226	9.225	0.001	96	844802	4.00	4.00	
* 4 Phenanthrene-d10	188	10.486	10.485	0.001	97	1603082	4.00	4.00	
* 5 Chrysene-d12	240	13.274	13.279	-0.005	99	1518333	4.00	4.00	
* 6 Perylene-d12	264	15.555	15.554	0.001	98	1528837	4.00	4.00	
$ 7 2-Fluorophenol	112	5.487	5.487	0.000	92	248302	2.00	1.98	
$ 8 Phenol-d5	99	6.283	6.283	0.000	96	320160	2.00	2.06	
$ 9 Nitrobenzene-d5	82	7.111	7.111	0.000	87	306372	2.00	2.01	
$ 10 2-Fluorobiphenyl	172	8.622	8.622	0.000	99	706486	2.00	2.01	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	93	75211	2.00	1.91	
$ 12 p-Terphenyl-d14	244	11.907	11.907	0.000	100	753798	2.00	2.13	
13 1,4-Dioxane	88	3.714	3.714	0.000	94	96833	2.00	2.02	
14 N-Nitrosodimethylamine	42	4.098	4.098	0.000	91	121815	2.00	2.02	
15 Pyridine	52	4.146	4.146	0.000	97	279419	4.00	4.00	
35 Benzaldehyde	77	6.267	6.267	0.000	96	417563	4.00	4.25	
37 Phenol	94	6.294	6.299	-0.005	99	294094	2.00	2.03	
36 Aniline	93	6.352	6.352	0.000	98	342283	2.00	1.99	
39 Bis(2-chloroethyl)ether	93	6.384	6.390	-0.006	95	249038	2.00	2.11	
40 2-Chlorophenol	128	6.464	6.464	0.000	96	266779	2.00	2.05	
41 n-Decane	57	6.470	6.470	0.000	94	229527	2.00	2.02	
43 1,3-Dichlorobenzene	146	6.598	6.598	0.000	99	315712	2.00	2.01	
44 1,4-Dichlorobenzene	146	6.657	6.657	0.000	96	319021	2.00	1.99	
45 Benzyl alcohol	108	6.737	6.737	0.000	92	152051	2.00	2.01	
46 1,2-Dichlorobenzene	146	6.796	6.796	0.000	98	302863	2.00	1.98	
48 2-Methylphenol	108	6.817	6.817	0.000	96	225225	2.00	2.04	
49 2,2'-oxybis[1-chloropropan	45	6.844	6.849	-0.005	93	330357	2.00	2.03	
47 Indene	115	6.870	6.870	0.000	88	2413351	10.0	10.1	
57 4-Methylphenol	108	6.940	6.940	0.000	97	227722	2.00	2.03	
53 N-Nitrosodi-n-propylamine	70	6.956	6.956	0.000	91	163909	2.00	2.05	
52 Acetophenone	105	6.972	6.972	0.000	98	335896	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.089	7.089	0.000	91	118486	2.00	1.99	
59 Nitrobenzene	77	7.127	7.127	0.000	85	245452	2.00	2.00	
62 Isophorone	82	7.319	7.319	0.000	99	447604	2.00	2.02	
66 2,4-Dimethylphenol	107	7.394	7.394	0.000	94	240838	2.00	2.00	
64 2-Nitrophenol	139	7.399	7.399	0.000	92	131922	2.00	1.92	
69 Bis(2-chloroethoxy)methane	93	7.474	7.474	0.000	99	281455	2.00	2.05	
70 Benzoic acid	105	7.463	7.490	-0.027	89	627237	10.0	9.56	
72 2,4-Dichlorophenol	162	7.597	7.597	0.000	90	229377	2.00	1.97	
73 1,2,4-Trichlorobenzene	180	7.677	7.677	0.000	94	278166	2.00	1.98	
74 Naphthalene	128	7.752	7.752	0.000	98	793213	2.00	2.02	
76 4-Chloroaniline	127	7.773	7.773	0.000	97	259763	2.00	1.94	
77 2,6-Dichlorophenol	162	7.789	7.789	0.000	96	231493	2.00	1.97	
79 Hexachlorobutadiene	225	7.842	7.842	0.000	95	164533	2.00	1.95	
84 Caprolactam	113	8.056	8.067	-0.011	80	137497	4.00	4.04	
85 4-Chloro-3-methylphenol	107	8.152	8.152	0.000	94	197390	2.00	2.04	
87 2-Methylnaphthalene	142	8.334	8.334	0.000	92	549329	2.00	2.05	
89 1-Methylnaphthalene	142	8.419	8.419	0.000	93	512672	2.00	2.04	
90 Hexachlorocyclopentadiene	237	8.467	8.467	0.000	93	182275	2.00	1.87	
91 1,2,4,5-Tetrachlorobenzene	216	8.478	8.478	0.000	96	291085	2.00	1.94	
93 2,4,6-Trichlorophenol	196	8.558	8.558	0.000	90	170905	2.00	1.86	
94 2,4,5-Trichlorophenol	196	8.590	8.590	0.000	96	179170	2.00	1.95	
96 1,1'-Biphenyl	154	8.713	8.713	0.000	96	649975	2.00	1.97	
97 2-Chloronaphthalene	162	8.750	8.750	0.000	94	521664	2.00	1.99	
100 2-Nitroaniline	65	8.809	8.815	-0.006	89	108128	2.00	1.90	
105 Dimethyl phthalate	163	8.937	8.937	0.000	99	572114	2.00	2.02	
106 1,3-Dinitrobenzene	168	8.980	8.980	0.000	92	79002	2.00	1.85	
107 2,6-Dinitrotoluene	165	9.001	9.001	0.000	92	133992	2.00	2.02	
108 Acenaphthylene	152	9.108	9.108	0.000	98	806468	2.00	2.01	
109 3-Nitroaniline	138	9.151	9.156	-0.005	97	92260	2.00	2.17	
111 2,4-Dinitrophenol	184	9.236	9.242	-0.006	88	112059	4.00	3.69	
110 Acenaphthene	153	9.252	9.252	0.000	95	549115	2.00	1.99	
112 4-Nitrophenol	109	9.258	9.258	0.000	84	104936	4.00	3.68	
114 2,4-Dinitrotoluene	165	9.343	9.349	-0.006	96	161714	2.00	1.92	
115 Dibenzofuran	168	9.397	9.397	0.000	97	758094	2.00	2.02	
118 2,3,4,6-Tetrachlorophenol	232	9.487	9.488	-0.001	70	145998	2.00	1.90	
121 Hexadecane	57	9.514	9.514	0.000	96	263648	2.00	1.99	
120 Diethyl phthalate	149	9.520	9.520	0.000	99	562457	2.00	2.00	
123 4-Chlorophenyl phenyl ethe	204	9.658	9.658	0.000	88	303994	2.00	1.98	
126 4-Nitroaniline	138	9.674	9.674	0.000	90	112323	2.00	1.89	
124 Fluorene	166	9.685	9.685	0.000	94	602238	2.00	2.01	
127 4,6-Dinitro-2-methylphenol	198	9.696	9.696	0.000	94	161474	4.00	3.64	
129 Diphenylamine	169	9.749	9.749	0.000	93	429925	1.71	1.75	
130 N-Nitrosodiphenylamine	169	9.749	9.749	0.000	63	429925	2.00	2.05	
131 1,2-Diphenylhydrazine	77	9.792	9.792	0.000	41	512613	2.00	2.03	
132 Azobenzene	77	9.792	9.792	0.000	98	512613	2.00	2.03	
139 4-Bromophenyl phenyl ether	248	10.075	10.075	0.000	64	181079	2.00	1.98	
143 Atrazine	200	10.166	10.166	0.000	95	336186	4.00	4.13	
140 Hexachlorobenzene	284	10.160	10.166	-0.006	94	180392	2.00	1.95	
148 n-Octadecane	57	10.289	10.289	0.000	94	263815	2.00	2.02	
145 Pentachlorophenol	266	10.315	10.315	0.000	93	190779	4.00	3.69	
151 Phenanthrene	178	10.508	10.508	0.000	97	900020	2.00	2.05	
152 Anthracene	178	10.550	10.550	0.000	97	900956	2.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.663	10.672	-0.009	95	587676	2.00	2.08	M
157 Di-n-butyl phthalate	149	10.887	10.887	0.000	100	928478	2.00	2.02	
164 Fluoranthene	202	11.565	11.565	0.000	98	995844	2.00	2.07	
166 Benzidine	184	11.651	11.651	0.000	99	479875	4.00	3.54	M
167 Pyrene	202	11.806	11.811	-0.005	98	1036138	2.00	2.17	
174 Butyl benzyl phthalate	149	12.420	12.414	0.006	96	387612	2.00	2.03	
181 Bis(2-ethylhexyl) phthalat	149	13.146	13.146	0.000	95	559117	2.00	2.05	
179 3,3'-Dichlorobenzidine	252	13.178	13.178	0.000	73	527066	4.00	4.05	
180 Benzo[a]anthracene	228	13.258	13.264	-0.006	98	980093	2.00	2.08	
182 Chrysene	228	13.317	13.317	0.000	96	921945	2.00	2.10	
184 Di-n-octyl phthalate	149	14.124	14.129	-0.005	98	867891	2.00	2.00	
186 Benzo[b]fluoranthene	252	14.914	14.919	-0.005	97	866237	2.00	1.93	
187 Benzo[k]fluoranthene	252	14.957	14.962	-0.005	99	940659	2.00	2.03	
189 Benzo[a]pyrene	252	15.459	15.464	-0.005	77	853066	2.00	1.99	
193 Indeno[1,2,3-cd]pyrene	276	17.472	17.478	-0.006	95	939468	2.00	1.92	
194 Dibenz(a,h)anthracene	278	17.488	17.494	-0.006	91	792338	2.00	1.94	
195 Benzo[g,h,i]perylene	276	18.044	18.055	-0.011	96	797097	2.00	1.95	
S 263 3-Methylphenol	1				0			2.03	
S 262 3 & 4 Methylphenol	108				0			2.03	
S 261 Total Cresols	1				0			4.07	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00336	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

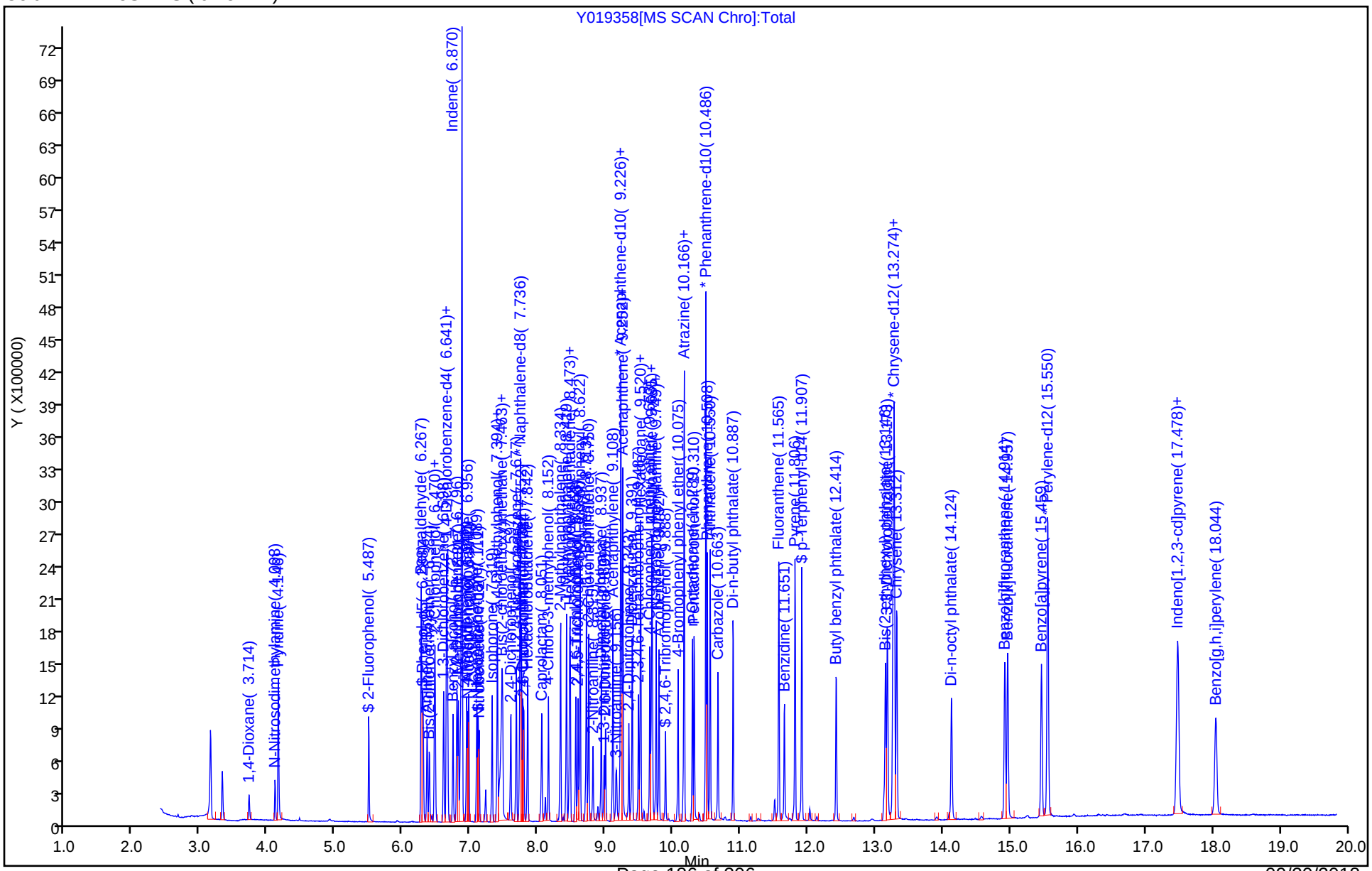
Report Date: 29-Aug-2018 12:39:15 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019358.D

Injection Date:	28-Aug-2018 17:25:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 2.0			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

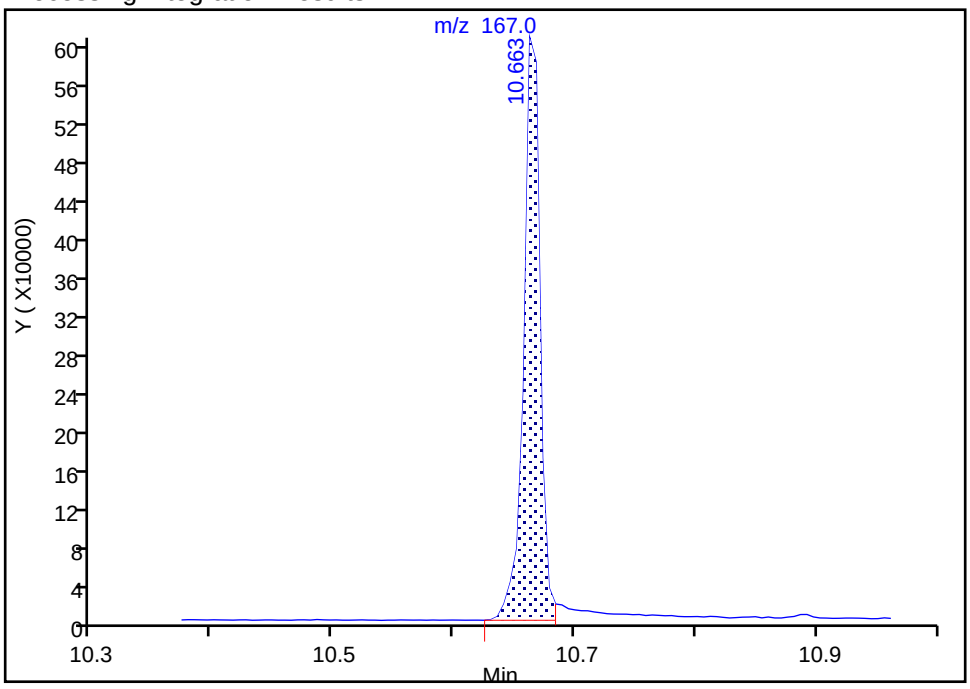
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019358.D
Injection Date: 28-Aug-2018 17:25:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 2.0
Client ID:
Operator ID: BS ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 Carbazole, CAS: 86-74-8

Signal: 1

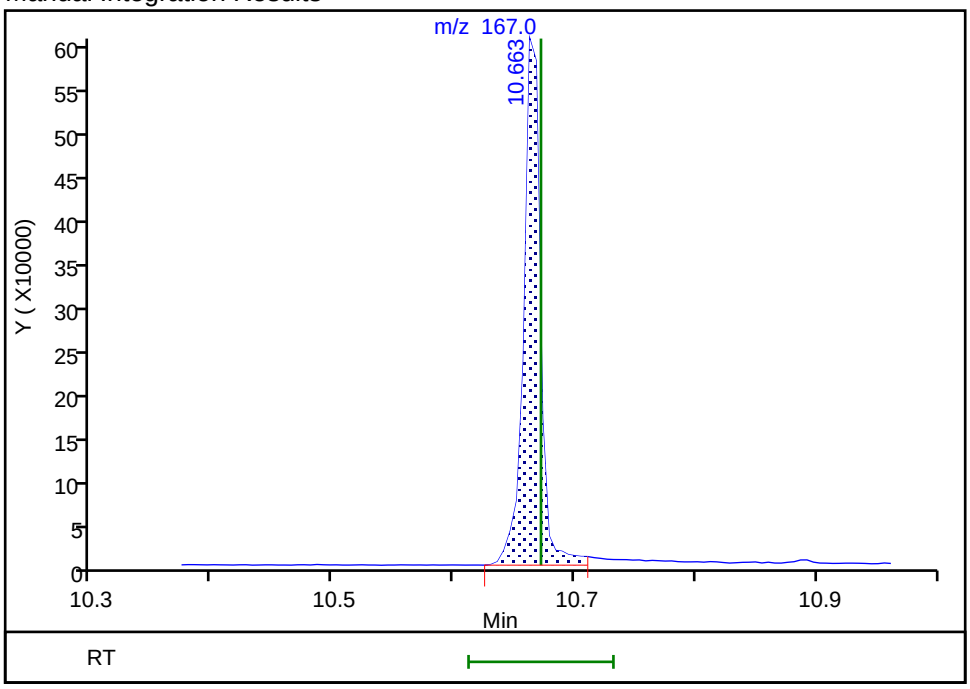
Processing Integration Results

RT: 10.66
Area: 568959
Amount: 1.874686
Amount Units: ng/uL



Manual Integration Results

RT: 10.66
Area: 587676
Amount: 2.075851
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 12:22:01
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

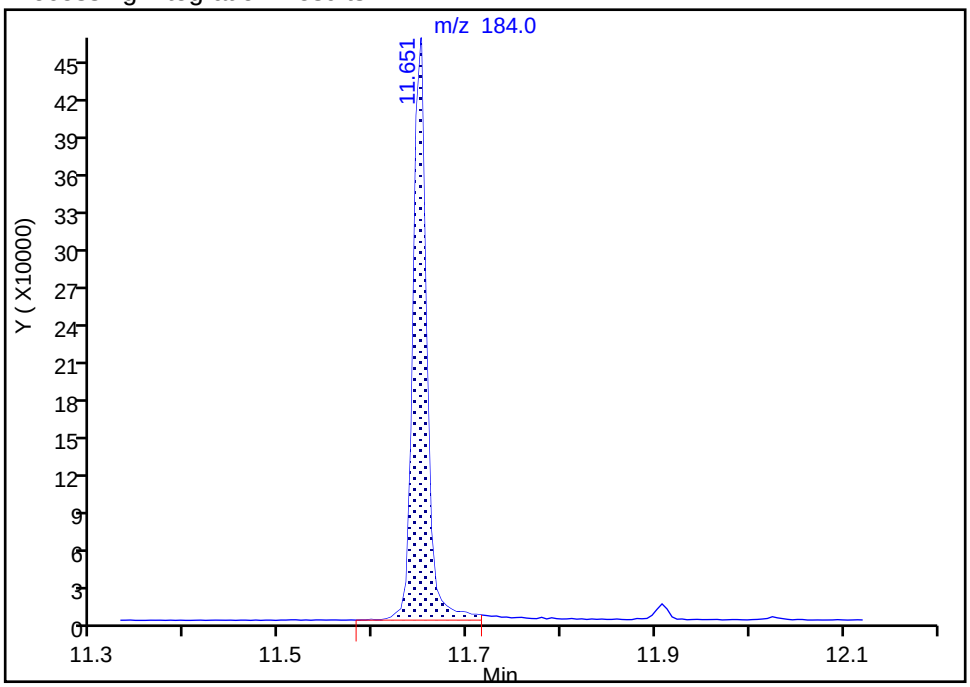
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019358.D
Injection Date: 28-Aug-2018 17:25:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 2.0
Client ID:
Operator ID: BS ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

166 Benzidine, CAS: 92-87-5

Signal: 1

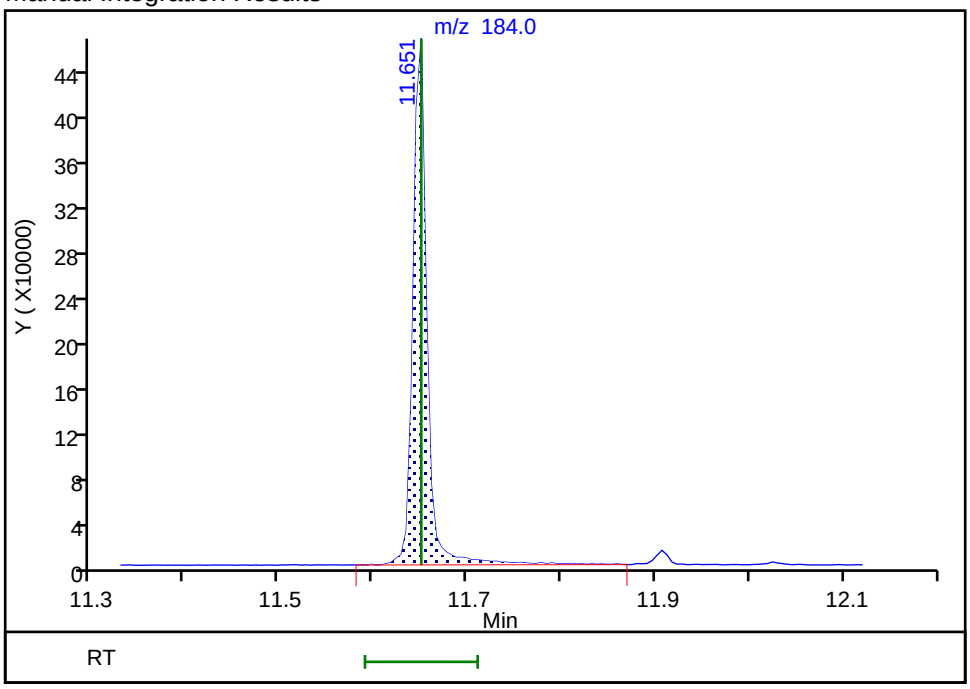
Processing Integration Results

RT: 11.65
Area: 469686
Amount: 3.366908
Amount Units: ng/uL



Manual Integration Results

RT: 11.65
Area: 479875
Amount: 3.544724
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:35:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019359.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Aug-2018 17:54:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-007
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:39:27 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 09:56:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.641	6.641	0.000	93	432652	4.00	4.00	
* 2 Naphthalene-d8	136	7.736	7.736	0.000	99	1545861	4.00	4.00	
* 3 Acenaphthene-d10	164	9.226	9.226	0.000	97	857031	4.00	4.00	
* 4 Phenanthrene-d10	188	10.486	10.486	0.000	97	1613441	4.00	4.00	
* 5 Chrysene-d12	240	13.280	13.280	0.000	99	1607183	4.00	4.00	
* 6 Perylene-d12	264	15.555	15.555	0.000	98	1550284	4.00	4.00	
$ 7 2-Fluorophenol	112	5.487	5.487	0.000	91	524773	4.00	4.15	
$ 8 Phenol-d5	99	6.283	6.283	0.000	96	644815	4.00	4.11	
$ 9 Nitrobenzene-d5	82	7.111	7.111	0.000	88	624067	4.00	4.05	
$ 10 2-Fluorobiphenyl	172	8.622	8.622	0.000	99	1429308	4.00	4.00	
$ 11 2,4,6-Tribromophenol	330	9.888	9.888	0.000	93	159068	4.00	3.93	
$ 12 p-Terphenyl-d14	244	11.907	11.907	0.000	100	1506535	4.00	4.02	
13 1,4-Dioxane	88	3.714	3.714	0.000	93	193544	4.00	4.02	
14 N-Nitrosodimethylamine	42	4.098	4.098	0.000	91	247935	4.00	4.09	
15 Pyridine	52	4.146	4.146	0.000	98	582498	8.00	8.29	
35 Benzaldehyde	77	6.267	6.267	0.000	97	841595	8.00	8.51	
37 Phenol	94	6.299	6.299	0.000	98	599992	4.00	4.11	
36 Aniline	93	6.352	6.352	0.000	99	692992	4.00	4.00	
39 Bis(2-chloroethyl)ether	93	6.390	6.390	0.000	97	498860	4.00	4.21	
40 2-Chlorophenol	128	6.464	6.464	0.000	95	533851	4.00	4.07	
41 n-Decane	57	6.470	6.470	0.000	93	466324	4.00	4.07	
43 1,3-Dichlorobenzene	146	6.598	6.598	0.000	99	640437	4.00	4.05	
44 1,4-Dichlorobenzene	146	6.657	6.657	0.000	95	653509	4.00	4.05	
45 Benzyl alcohol	108	6.737	6.737	0.000	94	320164	4.00	4.20	
46 1,2-Dichlorobenzene	146	6.796	6.796	0.000	98	618241	4.00	4.02	
48 2-Methylphenol	108	6.817	6.817	0.000	95	451776	4.00	4.06	
49 2,2'-oxybis[1-chloropropan	45	6.849	6.849	0.000	92	659538	4.00	4.03	
47 Indene	115	6.870	6.870	0.000	89	4819862	20.0	20.1	
57 4-Methylphenol	108	6.940	6.940	0.000	97	454915	4.00	4.03	
53 N-Nitrosodi-n-propylamine	70	6.956	6.956	0.000	90	327354	4.00	4.07	
52 Acetophenone	105	6.972	6.972	0.000	97	651823	4.00	3.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.089	7.089	0.000	91	240807	4.00	4.02	
59 Nitrobenzene	77	7.127	7.127	0.000	85	497493	4.00	4.03	
62 Isophorone	82	7.319	7.319	0.000	99	917460	4.00	4.10	
66 2,4-Dimethylphenol	107	7.394	7.394	0.000	89	499351	4.00	4.12	
64 2-Nitrophenol	139	7.399	7.399	0.000	74	275324	4.00	3.91	
69 Bis(2-chloroethoxy)methane	93	7.474	7.474	0.000	99	555082	4.00	4.01	
70 Benzoic acid	105	7.490	7.490	0.000	89	1499636	20.0	19.5	
72 2,4-Dichlorophenol	162	7.597	7.597	0.000	90	471809	4.00	3.96	
73 1,2,4-Trichlorobenzene	180	7.677	7.677	0.000	93	562777	4.00	3.97	
74 Naphthalene	128	7.752	7.752	0.000	98	1612430	4.00	4.07	
76 4-Chloroaniline	127	7.773	7.773	0.000	97	555444	4.00	4.11	
77 2,6-Dichlorophenol	162	7.789	7.789	0.000	96	477536	4.00	4.00	
79 Hexachlorobutadiene	225	7.842	7.842	0.000	96	335679	4.00	3.95	
84 Caprolactam	113	8.067	8.067	0.000	80	277930	8.00	7.99	
85 4-Chloro-3-methylphenol	107	8.152	8.152	0.000	92	391980	4.00	3.97	
87 2-Methylnaphthalene	142	8.334	8.334	0.000	92	1115496	4.00	4.13	
89 1-Methylnaphthalene	142	8.419	8.419	0.000	93	1033284	4.00	4.07	
90 Hexachlorocyclopentadiene	237	8.467	8.467	0.000	94	390591	4.00	3.90	
91 1,2,4,5-Tetrachlorobenzene	216	8.478	8.478	0.000	96	602145	4.00	3.97	
93 2,4,6-Trichlorophenol	196	8.558	8.558	0.000	90	366951	4.00	3.87	
94 2,4,5-Trichlorophenol	196	8.590	8.590	0.000	95	370528	4.00	3.92	
96 1,1'-Biphenyl	154	8.713	8.713	0.000	95	1358401	4.00	4.05	
97 2-Chloronaphthalene	162	8.750	8.750	0.000	95	1054090	4.00	3.97	
100 2-Nitroaniline	65	8.815	8.815	0.000	89	236858	4.00	3.99	
105 Dimethyl phthalate	163	8.937	8.937	0.000	99	1176182	4.00	4.09	
106 1,3-Dinitrobenzene	168	8.980	8.980	0.000	94	179740	4.00	3.99	
107 2,6-Dinitrotoluene	165	9.001	9.001	0.000	93	277228	4.00	4.04	
108 Acenaphthylene	152	9.108	9.108	0.000	98	1642403	4.00	4.01	
109 3-Nitroaniline	138	9.156	9.156	0.000	96	163313	4.00	3.79	
111 2,4-Dinitrophenol	184	9.242	9.242	0.000	84	282983	8.00	7.48	
110 Acenaphthene	153	9.252	9.252	0.000	95	1116869	4.00	3.99	
112 4-Nitrophenol	109	9.258	9.258	0.000	85	275393	8.00	8.22	
114 2,4-Dinitrotoluene	165	9.349	9.349	0.000	95	342693	4.00	3.91	
115 Dibenzofuran	168	9.397	9.397	0.000	97	1540043	4.00	4.04	
118 2,3,4,6-Tetrachlorophenol	232	9.488	9.488	0.000	69	309460	4.00	3.89	
121 Hexadecane	57	9.514	9.514	0.000	95	531336	4.00	3.95	
120 Diethyl phthalate	149	9.520	9.520	0.000	99	1158514	4.00	4.05	
123 4-Chlorophenyl phenyl ethe	204	9.658	9.658	0.000	88	615805	4.00	3.96	
126 4-Nitroaniline	138	9.674	9.674	0.000	92	242447	4.00	4.12	
124 Fluorene	166	9.685	9.685	0.000	94	1243513	4.00	4.10	
127 4,6-Dinitro-2-methylphenol	198	9.696	9.696	0.000	95	381457	8.00	8.09	
130 N-Nitrosodiphenylamine	169	9.749	9.749	0.000	62	874331	4.00	4.15	
129 Diphenylamine	169	9.749	9.749	0.000	93	874331	3.42	3.55	
132 Azobenzene	77	9.792	9.792	0.000	97	1047295	4.00	4.12	
131 1,2-Diphenylhydrazine	77	9.792	9.792	0.000	41	1047295	4.00	4.12	
139 4-Bromophenyl phenyl ether	248	10.075	10.075	0.000	63	374926	4.00	4.08	
140 Hexachlorobenzene	284	10.166	10.166	0.000	94	373105	4.00	4.01	
143 Atrazine	200	10.166	10.166	0.000	95	674834	8.00	8.17	
148 n-Octadecane	57	10.289	10.289	0.000	94	537322	4.00	4.09	
145 Pentachlorophenol	266	10.315	10.315	0.000	93	420884	8.00	7.79	
151 Phenanthrene	178	10.508	10.508	0.000	97	1836963	4.00	4.15	
152 Anthracene	178	10.550	10.550	0.000	97	1849400	4.00	4.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.663	10.663	0.000	95	972437	4.00	4.07	
157 Di-n-butyl phthalate	149	10.887	10.887	0.000	100	1911583	4.00	4.08	
164 Fluoranthene	202	11.565	11.565	0.000	98	2043478	4.00	4.22	
166 Benzidine	184	11.651	11.651	0.000	99	1034390	8.00	7.22	M
167 Pyrene	202	11.811	11.811	0.000	97	2125575	4.00	4.20	
174 Butyl benzyl phthalate	149	12.414	12.414	0.000	96	830134	4.00	4.03	
181 Bis(2-ethylhexyl) phthalat	149	13.146	13.146	0.000	94	1177571	4.00	3.98	
179 3,3'-Dichlorobenzidine	252	13.178	13.178	0.000	73	980180	8.00	7.11	
180 Benzo[a]anthracene	228	13.264	13.264	0.000	98	2015926	4.00	4.04	
182 Chrysene	228	13.317	13.317	0.000	96	1880247	4.00	4.04	
184 Di-n-octyl phthalate	149	14.129	14.129	0.000	98	1907764	4.00	4.01	
186 Benzo[b]fluoranthene	252	14.919	14.919	0.000	97	1872661	4.00	4.09	
187 Benzo[k]fluoranthene	252	14.962	14.962	0.000	99	2015826	4.00	4.27	
189 Benzo[a]pyrene	252	15.464	15.464	0.000	77	1784910	4.00	4.06	
193 Indeno[1,2,3-cd]pyrene	276	17.478	17.478	0.000	95	1998321	4.00	4.01	
194 Dibenz(a,h)anthracene	278	17.494	17.494	0.000	91	1673265	4.00	4.02	
195 Benzo[g,h,i]perylene	276	18.055	18.055	0.000	97	1682205	4.00	4.04	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00337	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

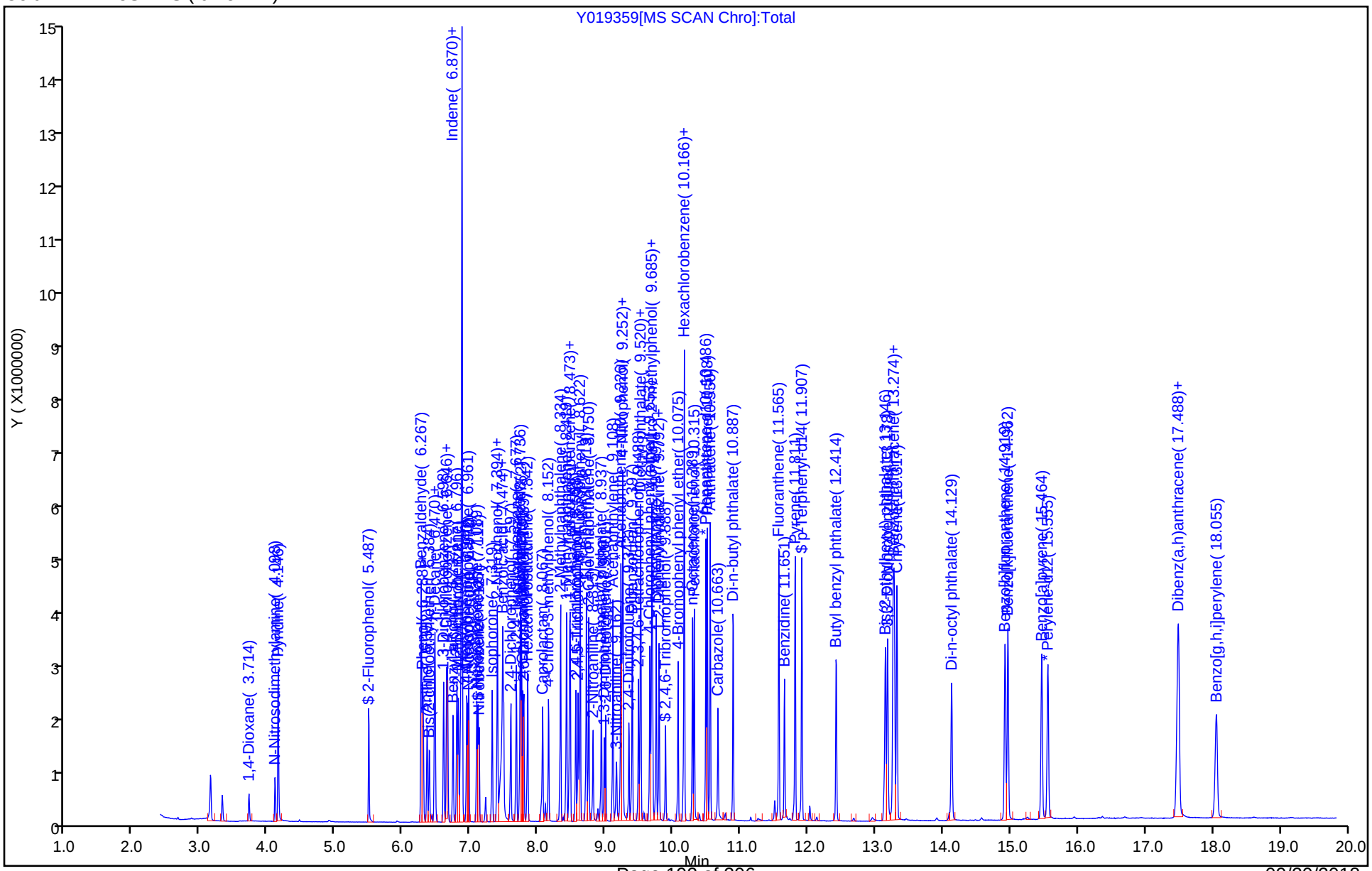
Report Date: 29-Aug-2018 12:39:29 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019359.D

Injection Date:	28-Aug-2018 17:54:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	ICIS			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

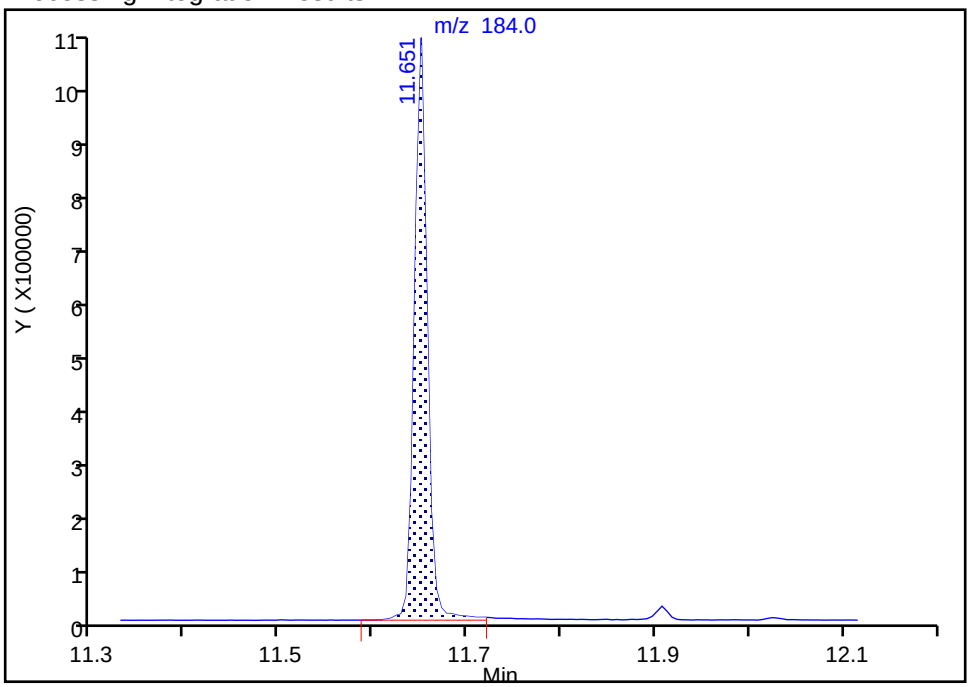
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019359.D
Injection Date: 28-Aug-2018 17:54:30 Instrument ID: HP5973Y
Lims ID: ICIS
Client ID:
Operator ID: BS ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

166 Benzidine, CAS: 92-87-5

Signal: 1

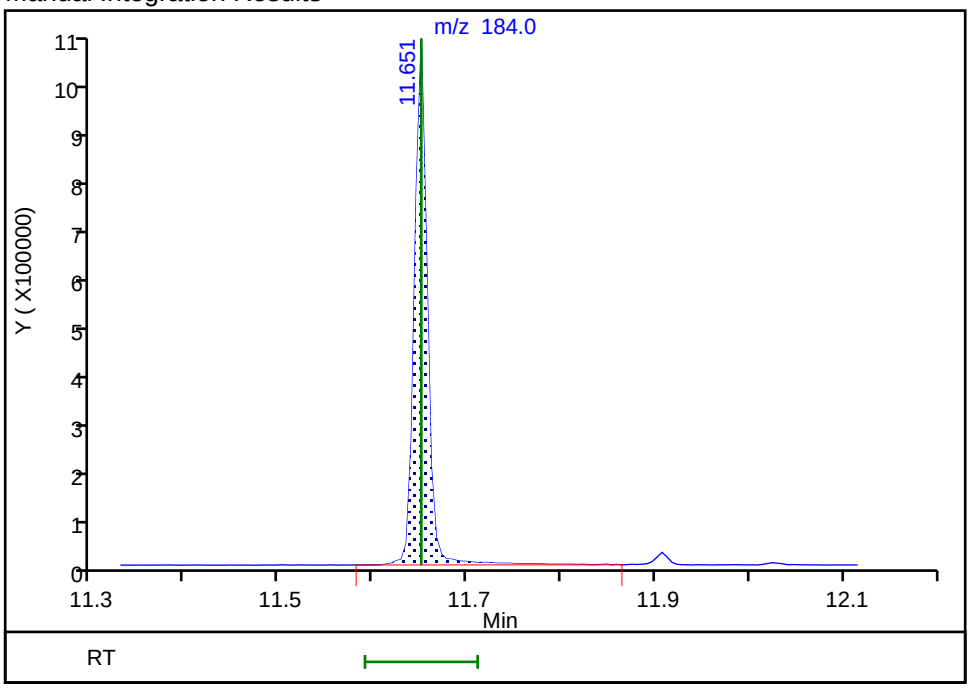
Processing Integration Results

RT: 11.65
Area: 1022768
Amount: 6.908299
Amount Units: ng/uL



Manual Integration Results

RT: 11.65
Area: 1034390
Amount: 7.218389
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:36:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019360.D
Lims ID: IC - List 1 - 8.0
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Aug-2018 18:22:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-008
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:39:42 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 10:16:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.642	6.641	0.001	93	437896	4.00	4.00	
* 2 Naphthalene-d8	136	7.737	7.736	0.001	99	1560691	4.00	4.00	
* 3 Acenaphthene-d10	164	9.227	9.226	0.001	96	838677	4.00	4.00	
* 4 Phenanthrene-d10	188	10.488	10.486	0.002	97	1662782	4.00	4.00	
* 5 Chrysene-d12	240	13.281	13.280	0.001	99	1668134	4.00	4.00	
* 6 Perylene-d12	264	15.556	15.555	0.001	98	1580195	4.00	4.00	
$ 7 2-Fluorophenol	112	5.488	5.487	0.001	91	1045576	8.00	8.17	
$ 8 Phenol-d5	99	6.289	6.283	0.006	97	1256125	8.00	7.92	
$ 9 Nitrobenzene-d5	82	7.112	7.111	0.001	87	1239332	8.00	7.97	
$ 10 2-Fluorobiphenyl	172	8.623	8.622	0.001	99	2811150	8.00	8.04	
$ 11 2,4,6-Tribromophenol	330	9.889	9.888	0.001	93	332304	8.00	7.88	
$ 12 p-Terphenyl-d14	244	11.908	11.907	0.001	100	3116674	8.00	8.01	
13 1,4-Dioxane	88	3.710	3.714	-0.004	94	378048	8.00	7.75	
14 N-Nitrosodimethylamine	42	4.105	4.098	0.007	91	484201	8.00	7.90	
15 Pyridine	52	4.142	4.146	-0.004	97	1149526	16.0	16.2	
35 Benzaldehyde	77	6.268	6.267	0.001	96	1584380	16.0	15.8	
37 Phenol	94	6.300	6.299	0.001	99	1173720	8.00	7.94	
36 Aniline	93	6.359	6.352	0.007	98	1389837	8.00	7.93	
39 Bis(2-chloroethyl)ether	93	6.391	6.390	0.001	96	930204	8.00	7.75	
40 2-Chlorophenol	128	6.466	6.464	0.002	96	1056831	8.00	7.97	
41 n-Decane	57	6.471	6.470	0.001	93	897715	8.00	7.74	
43 1,3-Dichlorobenzene	146	6.599	6.598	0.001	99	1259756	8.00	7.86	
44 1,4-Dichlorobenzene	146	6.658	6.657	0.001	95	1288378	8.00	7.89	
45 Benzyl alcohol	108	6.743	6.737	0.006	94	639144	8.00	8.28	
46 1,2-Dichlorobenzene	146	6.797	6.796	0.001	98	1226206	8.00	7.87	
48 2-Methylphenol	108	6.818	6.817	0.001	96	902215	8.00	8.01	
49 2,2'-oxybis[1-chloropropan	45	6.850	6.849	0.001	92	1263399	8.00	7.63	
47 Indene	115	6.877	6.870	0.007	90	8907083	40.0	36.7	
57 4-Methylphenol	108	6.946	6.940	0.006	98	915893	8.00	8.02	
53 N-Nitrosodi-n-propylamine	70	6.962	6.956	0.006	90	634279	8.00	7.79	
52 Acetophenone	105	6.973	6.972	0.001	97	1297784	8.00	7.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.091	7.089	0.002	91	489077	8.00	8.07	
59 Nitrobenzene	77	7.128	7.127	0.001	85	992171	8.00	7.96	
62 Isophorone	82	7.320	7.319	0.001	99	1800973	8.00	7.97	
66 2,4-Dimethylphenol	107	7.400	7.394	0.006	88	980432	8.00	8.01	
64 2-Nitrophenol	139	7.400	7.399	0.001	74	575658	8.00	8.02	
69 Bis(2-chloroethoxy)methane	93	7.475	7.474	0.001	99	1076951	8.00	7.70	
70 Benzoic acid	105	7.523	7.490	0.033	89	3158534	40.0	38.1	
72 2,4-Dichlorophenol	162	7.598	7.597	0.001	90	961348	8.00	7.95	
73 1,2,4-Trichlorobenzene	180	7.678	7.677	0.001	93	1131073	8.00	7.90	
74 Naphthalene	128	7.753	7.752	0.001	98	3155190	8.00	7.88	
76 4-Chloroaniline	127	7.774	7.773	0.001	96	1076747	8.00	7.89	
77 2,6-Dichlorophenol	162	7.790	7.789	0.001	97	945092	8.00	7.81	
79 Hexachlorobutadiene	225	7.844	7.842	0.002	95	689647	8.00	8.04	
84 Caprolactam	113	8.084	8.067	0.017	80	550199	16.0	15.6	
85 4-Chloro-3-methylphenol	107	8.159	8.152	0.007	93	786296	8.00	7.85	
87 2-Methylnaphthalene	142	8.335	8.334	0.001	92	2188262	8.00	8.03	
89 1-Methylnaphthalene	142	8.421	8.419	0.002	93	2025532	8.00	7.91	
90 Hexachlorocyclopentadiene	237	8.469	8.467	0.002	93	817202	8.00	8.28	
91 1,2,4,5-Tetrachlorobenzene	216	8.479	8.478	0.001	96	1215926	8.00	8.18	
93 2,4,6-Trichlorophenol	196	8.559	8.558	0.001	90	761638	8.00	8.12	
94 2,4,5-Trichlorophenol	196	8.597	8.590	0.007	95	750786	8.00	8.06	
96 1,1'-Biphenyl	154	8.720	8.713	0.007	95	2638431	8.00	8.05	
97 2-Chloronaphthalene	162	8.752	8.750	0.002	95	2077843	8.00	8.00	
100 2-Nitroaniline	65	8.816	8.815	0.001	90	480637	8.00	8.18	
105 Dimethyl phthalate	163	8.939	8.937	0.002	99	2314424	8.00	8.23	
106 1,3-Dinitrobenzene	168	8.981	8.980	0.001	92	382201	8.00	8.26	
107 2,6-Dinitrotoluene	165	9.003	9.001	0.002	93	553180	8.00	8.15	
108 Acenaphthylene	152	9.110	9.108	0.002	98	3242757	8.00	8.08	
109 3-Nitroaniline	138	9.158	9.156	0.002	97	299716	8.00	7.10	
111 2,4-Dinitrophenol	184	9.243	9.242	0.001	89	652148	16.0	16.1	
110 Acenaphthene	153	9.254	9.252	0.002	95	2231117	8.00	8.15	
112 4-Nitrophenol	109	9.264	9.258	0.006	88	545518	16.0	15.8	
114 2,4-Dinitrotoluene	165	9.350	9.349	0.001	95	709265	8.00	8.15	
115 Dibenzofuran	168	9.398	9.397	0.001	97	2979710	8.00	7.98	
118 2,3,4,6-Tetrachlorophenol	232	9.489	9.488	0.001	69	638221	8.00	8.12	
121 Hexadecane	57	9.515	9.514	0.001	96	1063716	8.00	8.08	
120 Diethyl phthalate	149	9.526	9.520	0.006	99	2290615	8.00	8.19	
123 4-Chlorophenyl phenyl ethe	204	9.660	9.658	0.002	88	1224498	8.00	8.04	
126 4-Nitroaniline	138	9.681	9.674	0.007	90	492254	8.00	8.63	
124 Fluorene	166	9.686	9.685	0.001	94	2448421	8.00	8.25	
127 4,6-Dinitro-2-methylphenol	198	9.702	9.696	0.006	95	802894	16.0	16.2	
129 Diphenylamine	169	9.750	9.749	0.001	93	1710799	6.84	6.73	
130 N-Nitrosodiphenylamine	169	9.750	9.749	0.001	62	1710799	8.00	7.87	
131 1,2-Diphenylhydrazine	77	9.793	9.792	0.001	41	2047862	8.00	7.82	
132 Azobenzene	77	9.793	9.792	0.001	98	2047862	8.00	7.82	
139 4-Bromophenyl phenyl ether	248	10.076	10.075	0.001	63	754774	8.00	7.97	
143 Atrazine	200	10.172	10.166	0.006	95	1262768	16.0	15.6	
140 Hexachlorobenzene	284	10.167	10.166	0.001	94	753798	8.00	7.87	
148 n-Octadecane	57	10.290	10.289	0.001	95	1062642	8.00	7.86	
145 Pentachlorophenol	266	10.317	10.315	0.002	93	916456	16.0	16.2	
151 Phenanthrene	178	10.509	10.508	0.001	98	3577604	8.00	7.85	
152 Anthracene	178	10.552	10.550	0.002	97	3635058	8.00	8.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.664	10.663	0.001	95	1660373	8.00	7.42	
157 Di-n-butyl phthalate	149	10.888	10.887	0.001	100	3830710	8.00	7.89	
164 Fluoranthene	202	11.572	11.565	0.007	98	4040236	8.00	8.09	
166 Benzidine	184	11.652	11.651	0.001	99	2251364	16.0	15.1	M
167 Pyrene	202	11.812	11.811	0.001	97	4226418	8.00	8.05	
174 Butyl benzyl phthalate	149	12.421	12.414	0.007	95	1702562	8.00	7.88	
181 Bis(2-ethylhexyl) phthalat	149	13.147	13.146	0.001	94	2470911	8.00	7.93	
179 3,3'-Dichlorobenzidine	252	13.185	13.178	0.007	72	1997966	16.0	14.0	M
180 Benzo[a]anthracene	228	13.265	13.264	0.001	98	4039275	8.00	7.79	
182 Chrysene	228	13.324	13.317	0.007	96	3741114	8.00	7.74	
184 Di-n-octyl phthalate	149	14.130	14.129	0.001	98	4049720	8.00	8.08	
186 Benzo[b]fluoranthene	252	14.926	14.919	0.007	97	3911758	8.00	8.37	
187 Benzo[k]fluoranthene	252	14.969	14.962	0.007	99	3843071	8.00	7.96	
189 Benzo[a]pyrene	252	15.471	15.464	0.007	78	3637942	8.00	8.09	
193 Indeno[1,2,3-cd]pyrene	276	17.490	17.478	0.012	98	4236445	8.00	8.31	
194 Dibenz(a,h)anthracene	278	17.506	17.494	0.012	91	3534543	8.00	8.29	
195 Benzo[g,h,i]perylene	276	18.066	18.055	0.011	97	3491110	8.00	8.20	
S 263 3-Methylphenol	1				0			8.02	
S 262 3 & 4 Methylphenol	108				0			8.02	
S 261 Total Cresols	1				0			16.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00338	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

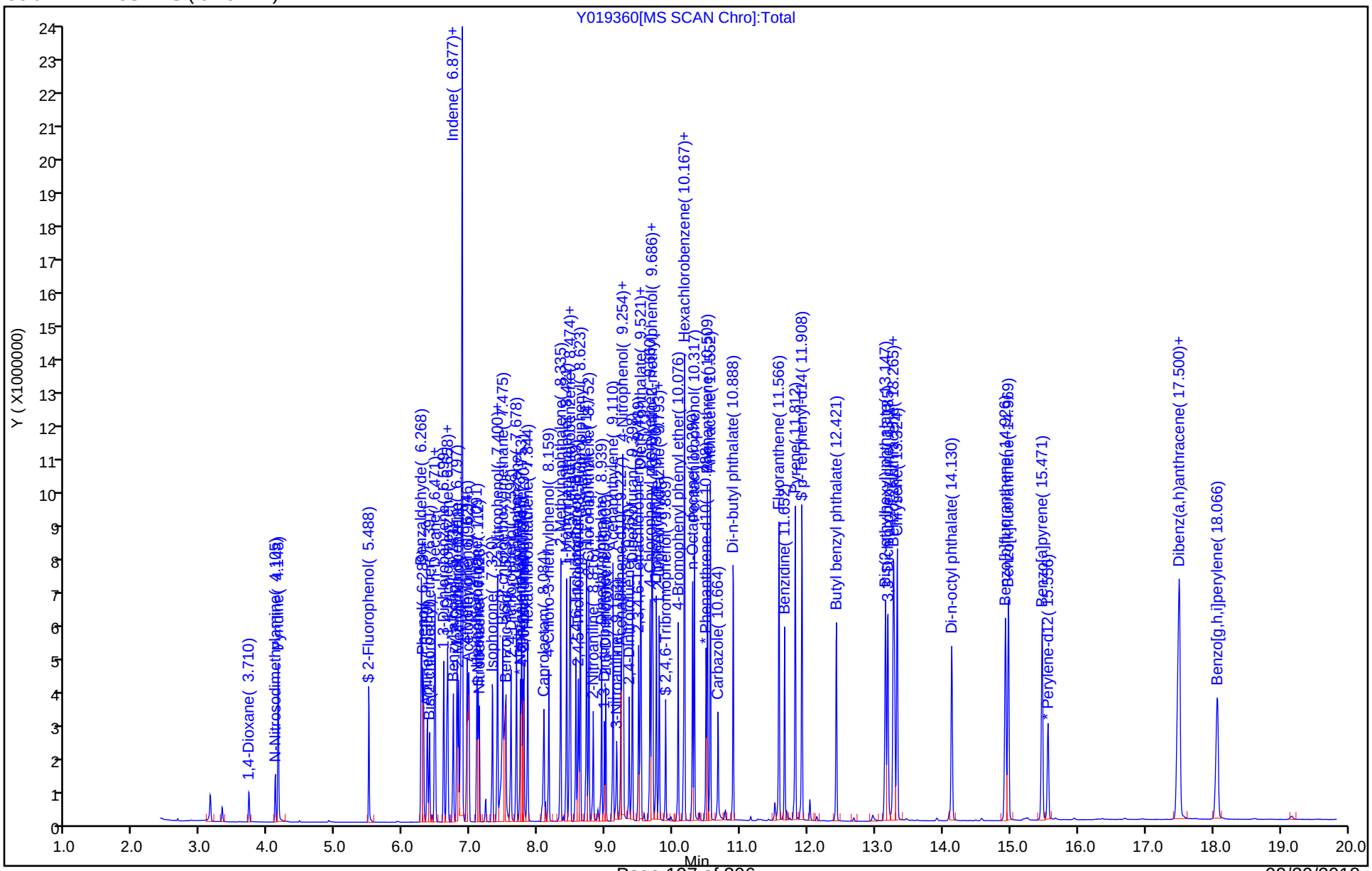
Report Date: 29-Aug-2018 12:39:45 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019360.D

Injection Date:	28-Aug-2018 18:22:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 8.0			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

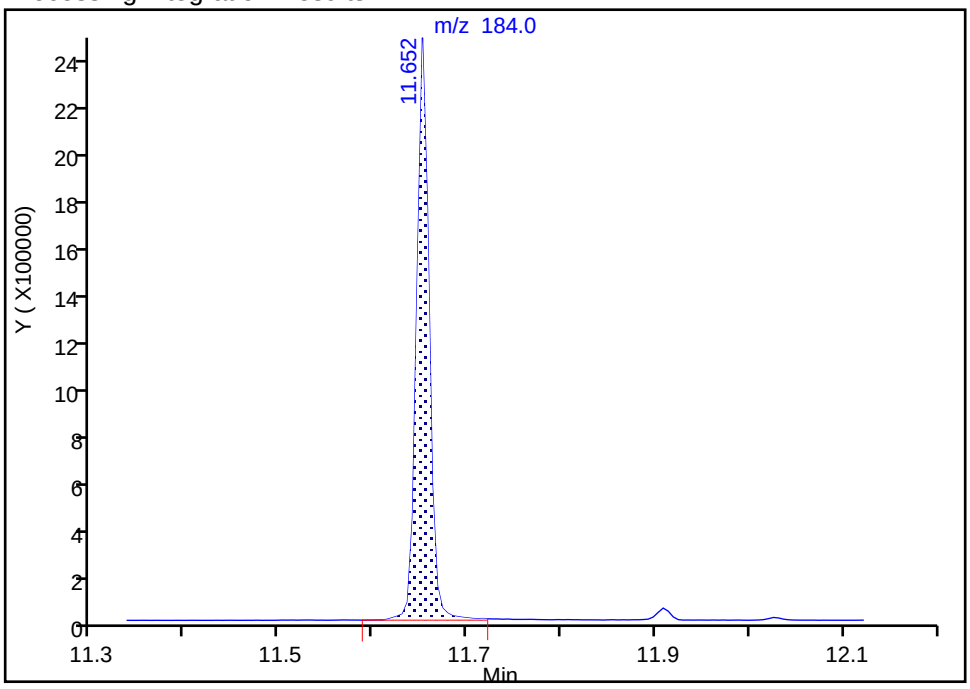
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019360.D
Injection Date: 28-Aug-2018 18:22:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 8.0
Client ID:
Operator ID: BS ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

166 Benzidine, CAS: 92-87-5

Signal: 1

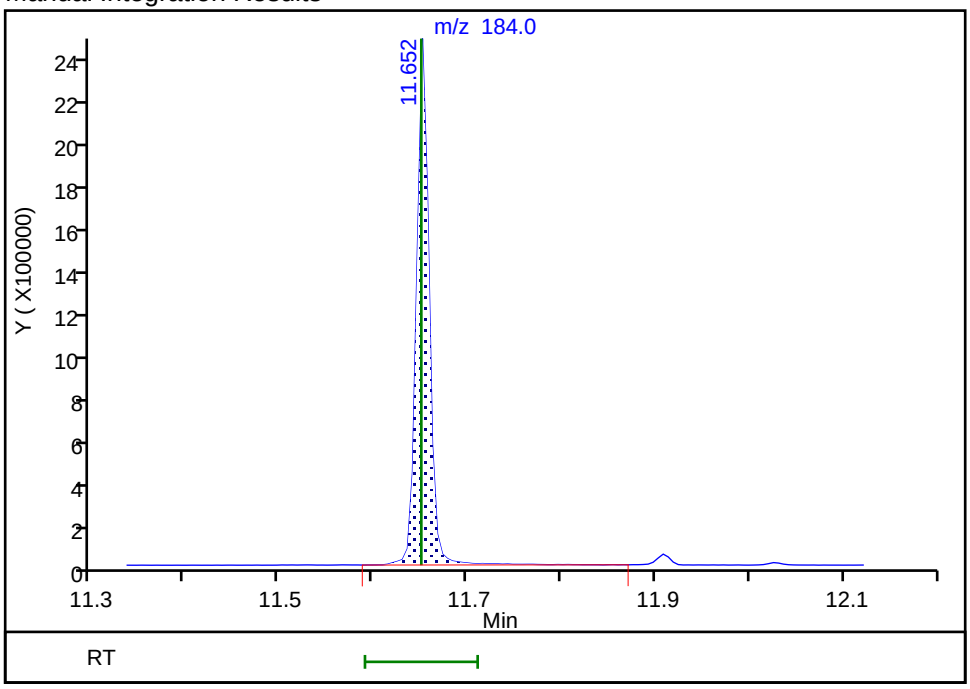
Processing Integration Results

RT: 11.65
Area: 2240013
Amount: 14.556955
Amount Units: ng/uL



Manual Integration Results

RT: 11.65
Area: 2251364
Amount: 15.136870
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:36:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

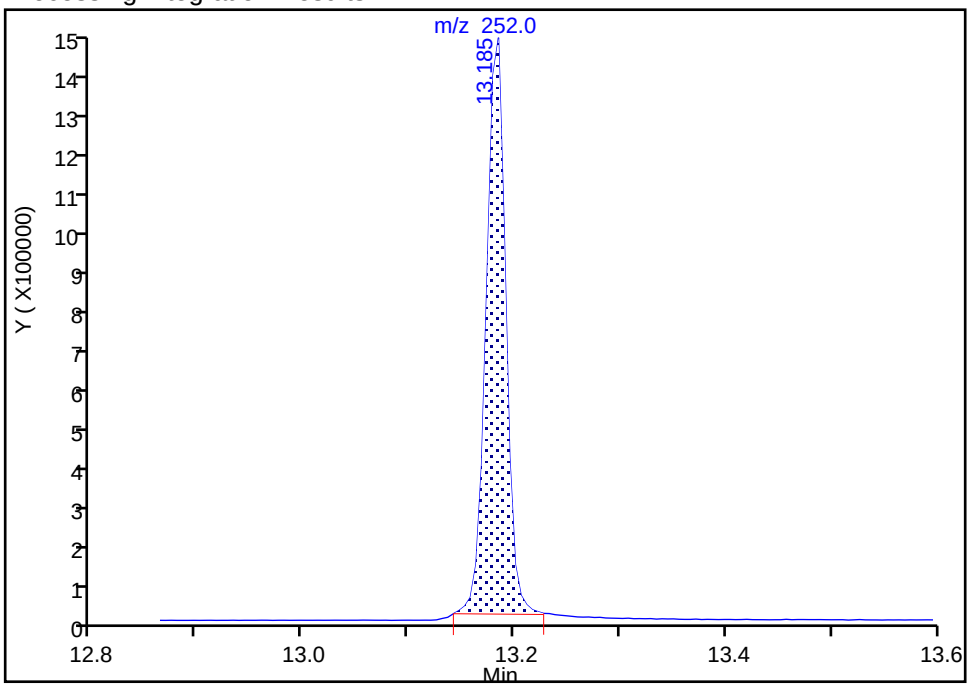
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019360.D
Injection Date: 28-Aug-2018 18:22:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 8.0
Client ID:
Operator ID: BS ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

179 3,3'-Dichlorobenzidine, CAS: 91-94-1

Signal: 1

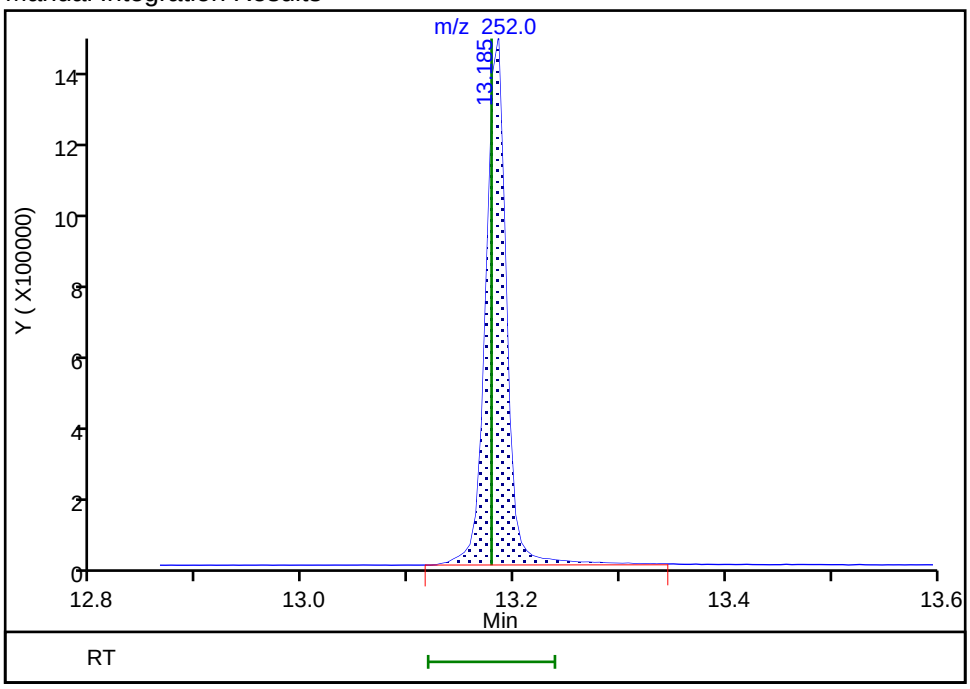
Processing Integration Results

RT: 13.18
Area: 1867784
Amount: 13.168806
Amount Units: ng/uL



Manual Integration Results

RT: 13.18
Area: 1997966
Amount: 13.972152
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:40:19
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019361.D
Lims ID: IC - List 1 - 12.0
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Aug-2018 18:51:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-009
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:39:55 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 10:17:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.643	6.641	0.002	93	447877	4.00	4.00	a
* 2 Naphthalene-d8	136	7.738	7.736	0.002	98	1573756	4.00	4.00	
* 3 Acenaphthene-d10	164	9.228	9.226	0.002	95	879430	4.00	4.00	
* 4 Phenanthrene-d10	188	10.489	10.486	0.002	97	1681553	4.00	4.00	
* 5 Chrysene-d12	240	13.282	13.280	0.002	99	1642239	4.00	4.00	
* 6 Perylene-d12	264	15.557	15.555	0.002	98	1641074	4.00	4.00	
$ 7 2-Fluorophenol	112	5.489	5.487	0.002	91	1596105	12.0	12.2	
$ 8 Phenol-d5	99	6.290	6.283	0.007	97	1954431	12.0	12.0	
$ 9 Nitrobenzene-d5	82	7.113	7.111	0.002	88	1906651	12.0	12.2	
$ 10 2-Fluorobiphenyl	172	8.624	8.622	0.002	99	4349719	12.0	11.9	
$ 11 2,4,6-Tribromophenol	330	9.890	9.888	0.002	93	538467	12.0	12.6	
$ 12 p-Terphenyl-d14	244	11.909	11.907	0.002	99	4592148	12.0	12.0	
13 1,4-Dioxane	88	3.711	3.714	-0.003	94	579874	12.0	11.6	
14 N-Nitrosodimethylamine	42	4.106	4.098	0.008	91	729426	12.0	11.6	
15 Pyridine	52	4.149	4.146	0.003	97	1699953	24.0	23.4	
35 Benzaldehyde	77	6.269	6.267	0.002	94	2269805	24.0	22.2	
37 Phenol	94	6.301	6.299	0.002	99	1783280	12.0	11.8	
36 Aniline	93	6.360	6.352	0.008	98	2157354	12.0	12.0	
39 Bis(2-chloroethyl)ether	93	6.392	6.390	0.002	96	1373735	12.0	11.2	
40 2-Chlorophenol	128	6.467	6.464	0.003	96	1649001	12.0	12.2	
41 n-Decane	57	6.472	6.470	0.002	95	1372483	12.0	11.6	
43 1,3-Dichlorobenzene	146	6.600	6.598	0.002	99	1941030	12.0	11.8	
44 1,4-Dichlorobenzene	146	6.659	6.657	0.002	95	1979750	12.0	11.8	
45 Benzyl alcohol	108	6.744	6.737	0.007	94	982162	12.0	12.4	
46 1,2-Dichlorobenzene	146	6.798	6.796	0.002	98	1870815	12.0	11.7	
48 2-Methylphenol	108	6.825	6.817	0.008	96	1393374	12.0	12.1	
49 2,2'-oxybis[1-chloropropan	45	6.851	6.849	0.002	90	1888779	12.0	11.1	
47 Indene	115	6.873	6.870	0.003	91	11668825	60.0	47.0	e
57 4-Methylphenol	108	6.947	6.940	0.007	97	1418837	12.0	12.1	
53 N-Nitrosodi-n-propylamine	70	6.963	6.956	0.007	90	1003372	12.0	12.1	
52 Acetophenone	105	6.979	6.972	0.007	98	1994323	12.0	11.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.092	7.089	0.003	90	743834	12.0	12.0	
59 Nitrobenzene	77	7.129	7.127	0.002	86	1515474	12.0	12.1	
62 Isophorone	82	7.327	7.319	0.008	99	2747248	12.0	12.1	
66 2,4-Dimethylphenol	107	7.401	7.394	0.007	88	1511331	12.0	12.2	
64 2-Nitrophenol	139	7.401	7.399	0.002	75	893760	12.0	12.3	
69 Bis(2-chloroethoxy)methane	93	7.476	7.474	0.002	99	1674546	12.0	11.9	
70 Benzoic acid	105	7.546	7.490	0.056	89	5312832	60.0	61.9	Ma
72 2,4-Dichlorophenol	162	7.599	7.597	0.002	90	1483233	12.0	12.1	
73 1,2,4-Trichlorobenzene	180	7.679	7.677	0.002	94	1740248	12.0	12.1	
74 Naphthalene	128	7.754	7.752	0.002	98	4787100	12.0	11.9	
76 4-Chloroaniline	127	7.775	7.773	0.002	97	1706871	12.0	12.4	
77 2,6-Dichlorophenol	162	7.791	7.789	0.002	97	1496986	12.0	12.2	
79 Hexachlorobutadiene	225	7.845	7.842	0.003	95	1051461	12.0	12.2	
84 Caprolactam	113	8.101	8.067	0.034	80	849086	24.0	23.8	
85 4-Chloro-3-methylphenol	107	8.165	8.152	0.013	93	1204318	12.0	11.9	
87 2-Methylnaphthalene	142	8.336	8.334	0.002	92	3304619	12.0	12.0	
89 1-Methylnaphthalene	142	8.422	8.419	0.003	92	3149287	12.0	12.2	
90 Hexachlorocyclopentadiene	237	8.470	8.467	0.003	95	1273077	12.0	12.3	
91 1,2,4,5-Tetrachlorobenzene	216	8.480	8.478	0.002	96	1857958	12.0	11.9	
93 2,4,6-Trichlorophenol	196	8.560	8.558	0.002	90	1204009	12.0	12.2	
94 2,4,5-Trichlorophenol	196	8.598	8.590	0.008	95	1173874	12.0	12.0	
96 1,1'-Biphenyl	154	8.721	8.713	0.008	95	4059411	12.0	11.8	
97 2-Chloronaphthalene	162	8.753	8.750	0.003	95	3219109	12.0	11.8	
100 2-Nitroaniline	65	8.817	8.815	0.002	89	756167	12.0	12.2	
105 Dimethyl phthalate	163	8.945	8.937	0.008	99	3556720	12.0	12.1	
106 1,3-Dinitrobenzene	168	8.988	8.980	0.008	95	606930	12.0	12.9	
107 2,6-Dinitrotoluene	165	9.004	9.001	0.003	93	860418	12.0	12.1	
108 Acenaphthylene	152	9.111	9.108	0.002	98	4979095	12.0	11.8	
109 3-Nitroaniline	138	9.164	9.156	0.008	97	562056	12.0	12.7	
111 2,4-Dinitrophenol	184	9.244	9.242	0.002	91	1064034	24.0	24.4	
110 Acenaphthene	153	9.255	9.252	0.003	95	3382106	12.0	11.8	
112 4-Nitrophenol	109	9.271	9.258	0.013	86	883145	24.0	24.0	
114 2,4-Dinitrotoluene	165	9.351	9.349	0.002	95	1113611	12.0	12.1	
115 Dibenzofuran	168	9.399	9.397	0.002	96	4553539	12.0	11.6	
118 2,3,4,6-Tetrachlorophenol	232	9.490	9.488	0.002	69	1025837	12.0	12.4	
121 Hexadecane	57	9.516	9.514	0.002	96	1648063	12.0	11.9	
120 Diethyl phthalate	149	9.527	9.520	0.007	99	3488775	12.0	11.9	
123 4-Chlorophenyl phenyl ethe	204	9.661	9.658	0.003	88	1945987	12.0	12.2	
126 4-Nitroaniline	138	9.682	9.674	0.008	89	695226	12.0	11.6	
124 Fluorene	166	9.687	9.685	0.002	94	3790493	12.0	12.2	
127 4,6-Dinitro-2-methylphenol	198	9.703	9.696	0.007	94	1299689	24.0	25.7	
130 N-Nitrosodiphenylamine	169	9.757	9.749	0.008	62	2603176	12.0	11.8	
129 Diphenylamine	169	9.757	9.749	0.008	93	2603176	10.3	10.1	
132 Azobenzene	77	9.794	9.792	0.002	97	3173139	12.0	12.0	
131 1,2-Diphenylhydrazine	77	9.794	9.792	0.002	41	3173139	12.0	12.0	
139 4-Bromophenyl phenyl ether	248	10.077	10.075	0.002	62	1178067	12.0	12.3	
140 Hexachlorobenzene	284	10.168	10.166	0.002	94	1195251	12.0	12.3	
143 Atrazine	200	10.173	10.166	0.007	95	2007603	24.0	23.7	
148 n-Octadecane	57	10.291	10.289	0.002	95	1625375	12.0	11.9	
145 Pentachlorophenol	266	10.318	10.315	0.003	92	1445294	24.0	25.1	
151 Phenanthrene	178	10.510	10.508	0.002	98	5388430	12.0	11.7	
152 Anthracene	178	10.553	10.550	0.003	98	5497894	12.0	12.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.665	10.663	0.002	95	2672043	12.0	12.4	
157 Di-n-butyl phthalate	149	10.889	10.887	0.002	100	5680007	12.0	11.6	
164 Fluoranthene	202	11.573	11.565	0.008	98	6110394	12.0	12.1	
166 Benzidine	184	11.653	11.651	0.002	99	4018277	24.0	27.4	M
167 Pyrene	202	11.813	11.811	0.002	96	6330571	12.0	12.2	
174 Butyl benzyl phthalate	149	12.422	12.414	0.008	96	2625831	12.0	12.3	
181 Bis(2-ethylhexyl) phthalat	149	13.148	13.146	0.002	94	3789542	12.0	12.3	
179 3,3'-Dichlorobenzidine	252	13.186	13.178	0.008	73	3341918	24.0	23.7	M
180 Benzo[a]anthracene	228	13.266	13.264	0.002	98	6203896	12.0	12.2	
182 Chrysene	228	13.325	13.317	0.008	96	5678344	12.0	11.9	
184 Di-n-octyl phthalate	149	14.131	14.129	0.002	99	6181655	12.0	12.5	
186 Benzo[b]fluoranthene	252	14.932	14.919	0.013	97	5753259	12.0	11.8	
187 Benzo[k]fluoranthene	252	14.975	14.962	0.013	99	5950449	12.0	11.9	
189 Benzo[a]pyrene	252	15.472	15.464	0.008	77	5702718	12.0	12.2	
193 Indeno[1,2,3-cd]pyrene	276	17.501	17.478	0.023	95	6474532	12.0	12.2	
194 Dibenz(a,h)anthracene	278	17.517	17.494	0.023	92	5452320	12.0	12.3	
195 Benzo[g,h,i]perylene	276	18.078	18.055	0.023	96	5308565	12.0	12.0	
S 261 Total Cresols	1				0			24.2	
S 263 3-Methylphenol	1				0			12.1	
S 262 3 & 4 Methylphenol	108				0			12.1	

QC Flag Legend

Processing Flags
- e - Potential Peak Saturated

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00339	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

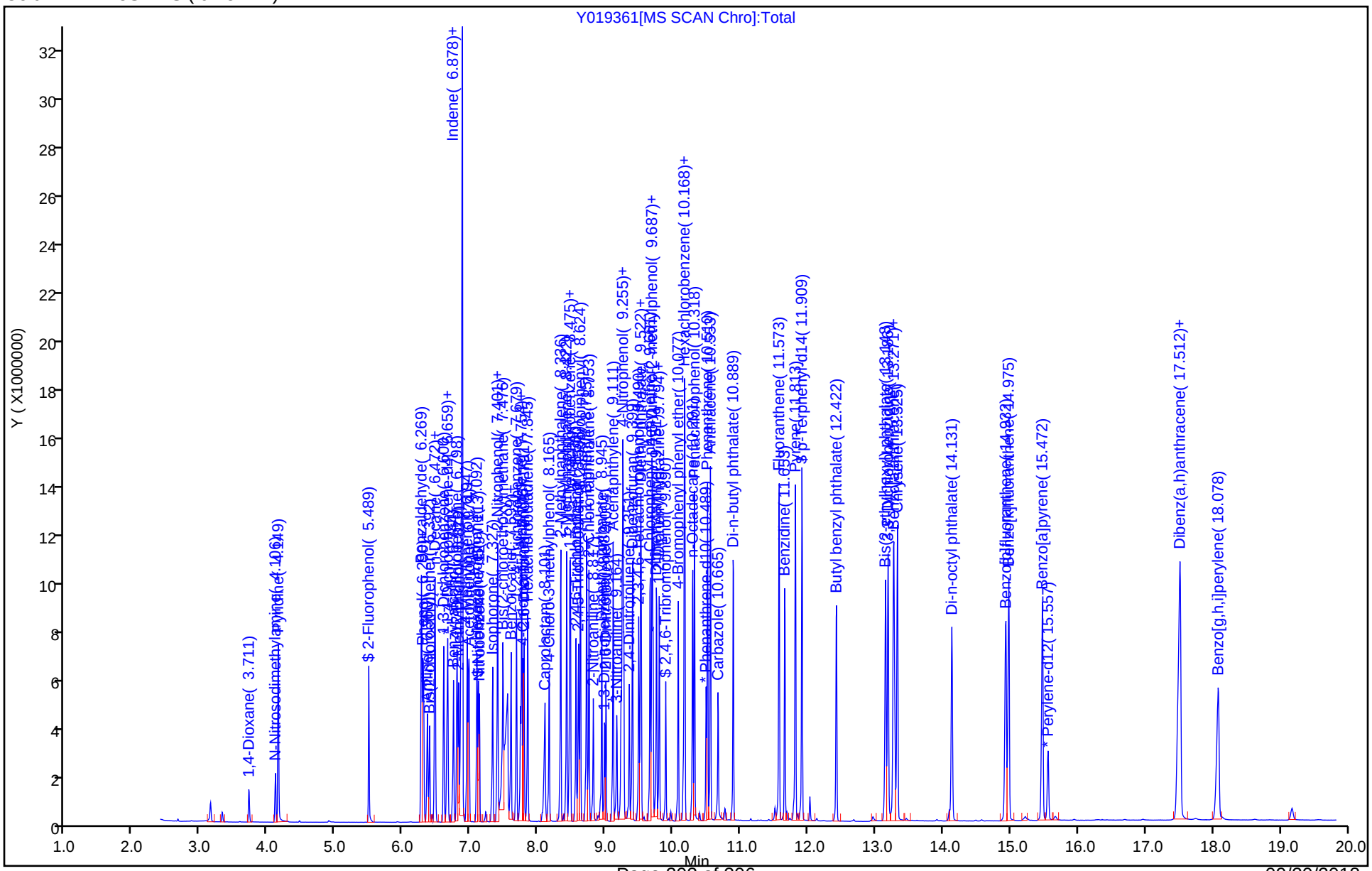
Report Date: 29-Aug-2018 12:39:57 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019361.D

Injection Date:	28-Aug-2018 18:51:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 12.0			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

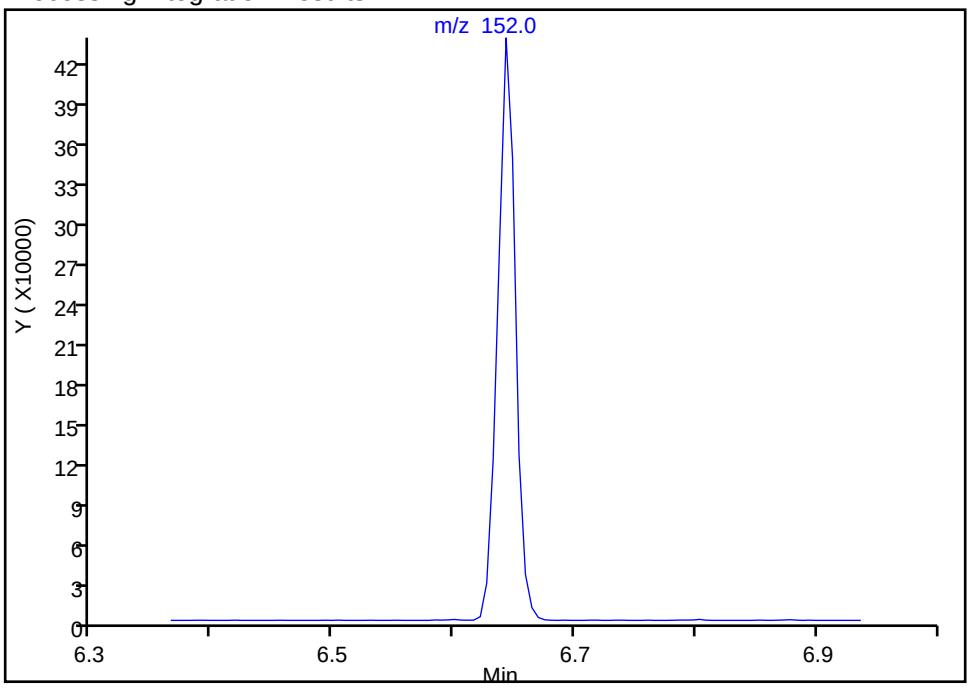
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019361.D
Injection Date: 28-Aug-2018 18:51:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12.0
Client ID:
Operator ID: BS ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

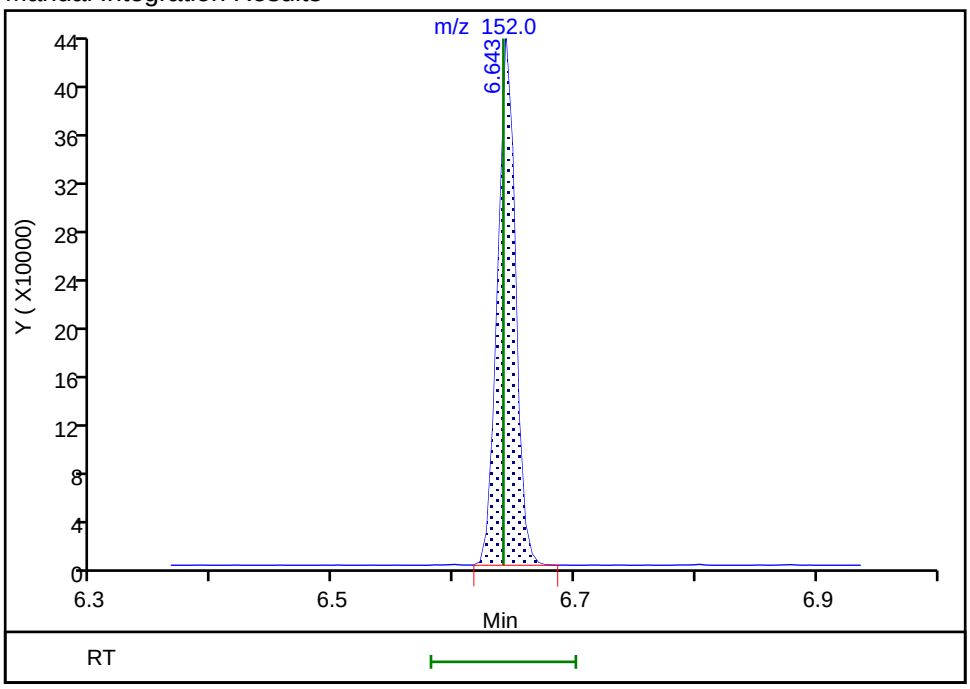
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.64
Area: 447877
Amount: 4.000000
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:16:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

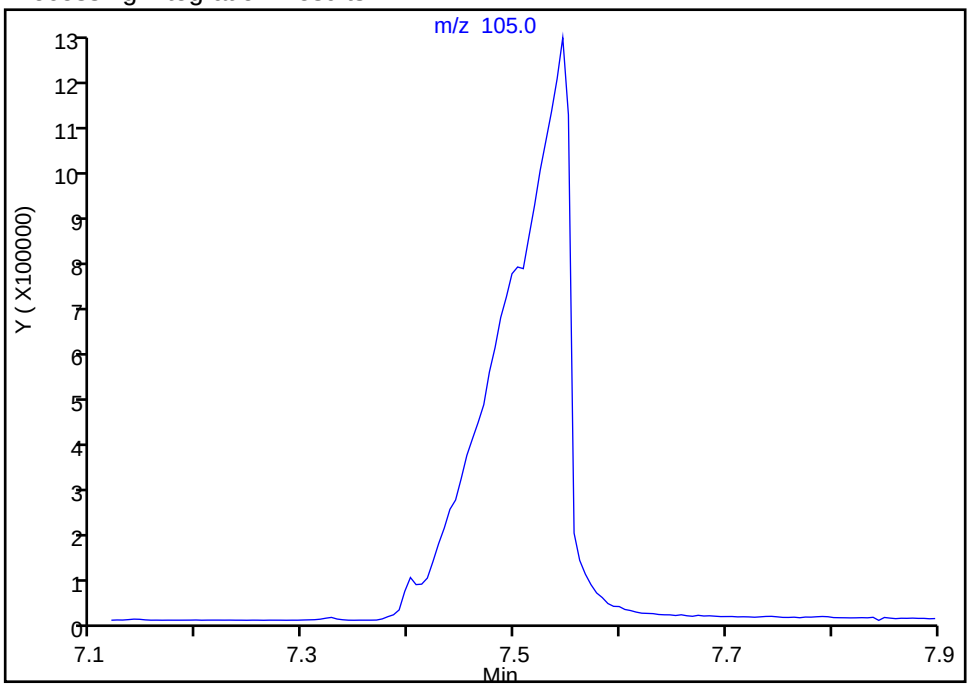
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019361.D
Injection Date: 28-Aug-2018 18:51:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12.0
Client ID:
Operator ID: BS ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

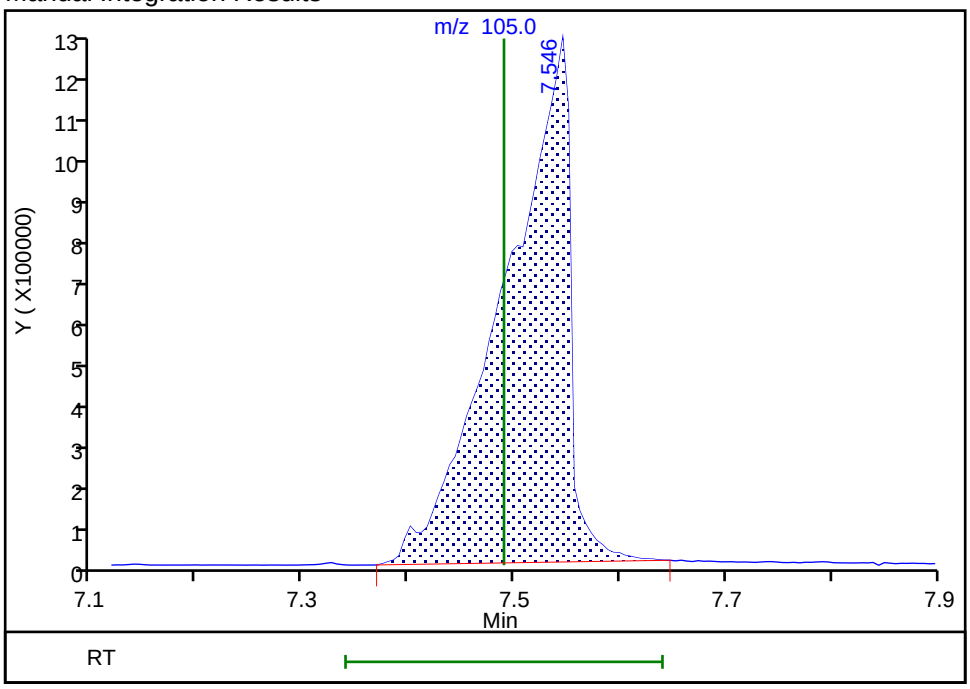
Not Detected
Expected RT: 7.49

Processing Integration Results



Manual Integration Results

RT: 7.55
Area: 5312832
Amount: 61.934699
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:17:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

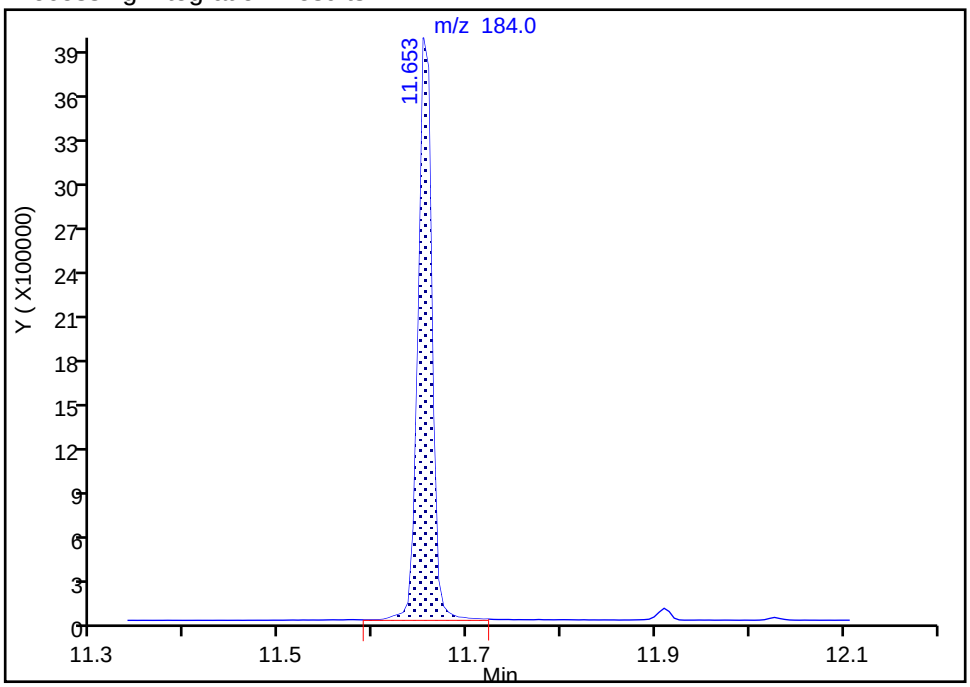
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019361.D
Injection Date: 28-Aug-2018 18:51:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12.0
Client ID:
Operator ID: BS ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

166 Benzidine, CAS: 92-87-5

Signal: 1

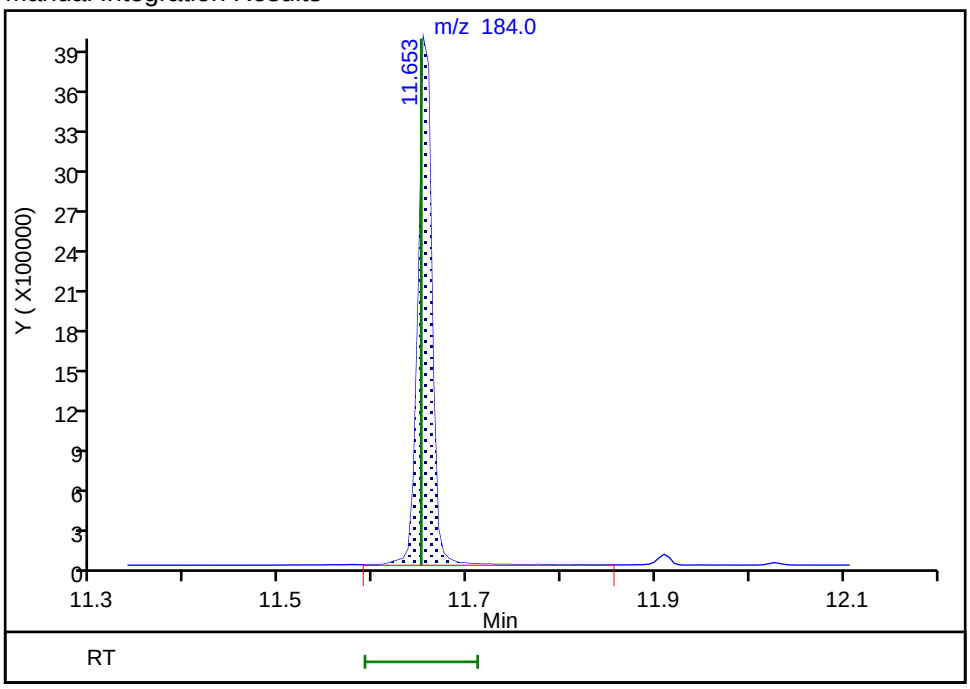
Processing Integration Results

RT: 11.65
Area: 3984847
Amount: 26.286955
Amount Units: ng/uL



Manual Integration Results

RT: 11.65
Area: 4018277
Amount: 27.442571
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:37:05
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

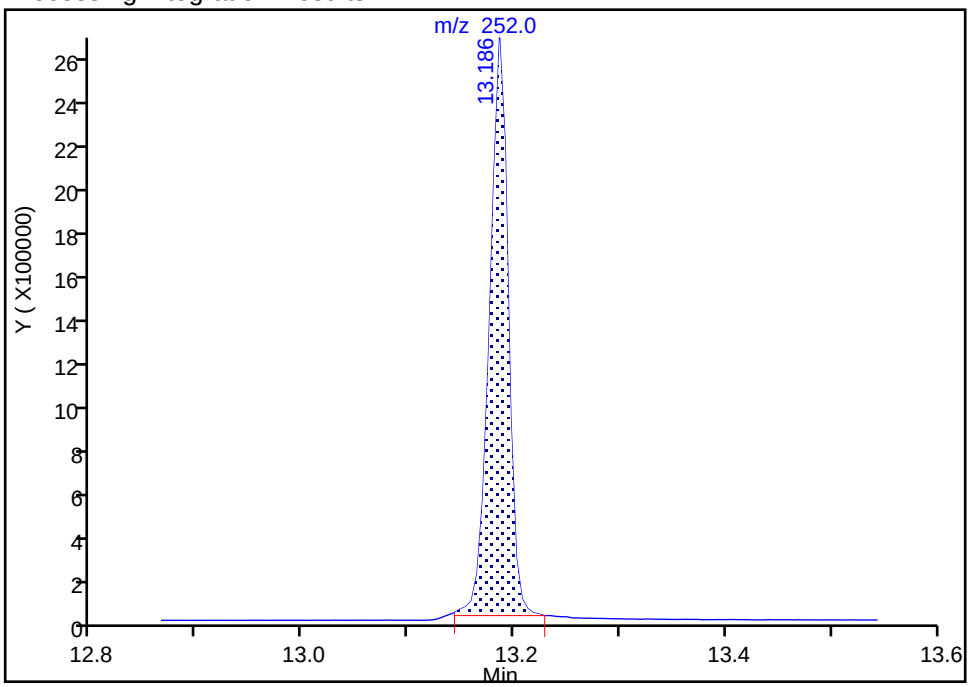
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019361.D
Injection Date: 28-Aug-2018 18:51:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12.0
Client ID:
Operator ID: BS ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

179 3,3'-Dichlorobenzidine, CAS: 91-94-1

Signal: 1

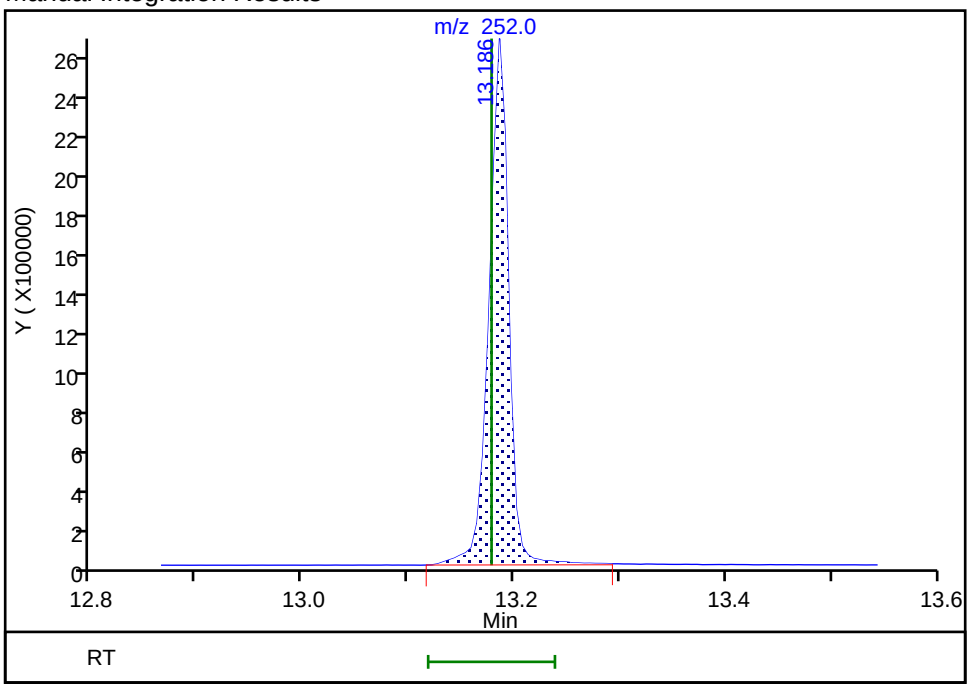
Processing Integration Results

RT: 13.19
Area: 3180432
Amount: 22.935091
Amount Units: ng/uL



Manual Integration Results

RT: 13.19
Area: 3341918
Amount: 23.739172
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:39:44
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Lims ID: IC - List 1 - 16.0
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Aug-2018 19:19:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074244-010
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:40:11 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 29-Aug-2018 10:20:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.645	6.641	0.004	92	488598	4.00	4.00	a
* 2 Naphthalene-d8	136	7.740	7.736	0.004	98	1701354	4.00	4.00	
* 3 Acenaphthene-d10	164	9.230	9.226	0.004	94	944663	4.00	4.00	
* 4 Phenanthrene-d10	188	10.490	10.486	0.004	96	1826786	4.00	4.00	
* 5 Chrysene-d12	240	13.289	13.280	0.009	99	1829249	4.00	4.00	
* 6 Perylene-d12	264	15.559	15.555	0.004	98	1781799	4.00	4.00	
$ 7 2-Fluorophenol	112	5.491	5.487	0.004	91	2245376	16.0	15.7	
$ 8 Phenol-d5	99	6.297	6.283	0.014	97	2803746	16.0	15.8	
$ 9 Nitrobenzene-d5	82	7.115	7.111	0.004	88	2761222	16.0	16.3	
$ 10 2-Fluorobiphenyl	172	8.626	8.622	0.004	98	6188865	16.0	15.7	
$ 11 2,4,6-Tribromophenol	330	9.897	9.888	0.009	93	783309	16.0	16.8	
$ 12 p-Terphenyl-d14	244	11.916	11.907	0.009	99	6691201	16.0	15.7	
13 1,4-Dioxane	88	3.712	3.714	-0.002	93	800812	16.0	14.7	
14 N-Nitrosodimethylamine	42	4.113	4.098	0.015	90	1045061	16.0	15.3	
15 Pyridine	52	4.150	4.146	0.004	96	2508305	32.0	31.6	
35 Benzaldehyde	77	6.276	6.267	0.009	95	3062296	32.0	27.4	
37 Phenol	94	6.308	6.299	0.009	99	2575105	16.0	15.6	
36 Aniline	93	6.362	6.352	0.010	97	3000364	16.0	15.3	
39 Bis(2-chloroethyl)ether	93	6.394	6.390	0.004	95	2038006	16.0	15.2	
40 2-Chlorophenol	128	6.468	6.464	0.004	96	2367728	16.0	16.0	
41 n-Decane	57	6.474	6.470	0.004	92	1972148	16.0	15.2	
43 1,3-Dichlorobenzene	146	6.602	6.598	0.004	99	2800209	16.0	15.7	
44 1,4-Dichlorobenzene	146	6.661	6.657	0.004	96	2829942	16.0	15.5	
45 Benzyl alcohol	108	6.751	6.737	0.014	93	1400615	16.0	16.3	
46 1,2-Dichlorobenzene	146	6.800	6.796	0.004	98	2702057	16.0	15.5	
48 2-Methylphenol	108	6.826	6.817	0.009	95	2007935	16.0	16.0	
49 2,2'-oxybis[1-chloropropan	45	6.853	6.849	0.004	92	2740398	16.0	14.8	
47 Indene	115	6.874	6.870	0.004	90	14459036	80.0	53.4	eM
57 4-Methylphenol	108	6.954	6.940	0.014	96	2063627	16.0	16.2	
53 N-Nitrosodi-n-propylamine	70	6.970	6.956	0.014	90	1451332	16.0	16.0	
52 Acetophenone	105	6.981	6.972	0.009	97	2916224	16.0	15.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.093	7.089	0.004	90	1077844	16.0	15.9	
59 Nitrobenzene	77	7.131	7.127	0.004	86	2211605	16.0	16.3	
62 Isophorone	82	7.328	7.319	0.009	99	3961868	16.0	16.1	
66 2,4-Dimethylphenol	107	7.403	7.394	0.009	88	2206501	16.0	16.5	
64 2-Nitrophenol	139	7.403	7.399	0.004	77	1322828	16.0	16.8	
69 Bis(2-chloroethoxy)methane	93	7.478	7.474	0.004	99	2417618	16.0	15.9	
70 Benzoic acid	105	7.574	7.490	0.084	89	7936482	80.0	84.7	M
72 2,4-Dichlorophenol	162	7.601	7.597	0.004	90	2163221	16.0	16.4	
73 1,2,4-Trichlorobenzene	180	7.681	7.677	0.004	94	2545711	16.0	16.3	
74 Naphthalene	128	7.756	7.752	0.004	98	6652231	16.0	15.2	a
76 4-Chloroaniline	127	7.777	7.773	0.004	97	2419943	16.0	16.3	
77 2,6-Dichlorophenol	162	7.793	7.789	0.004	97	2165074	16.0	16.4	
79 Hexachlorobutadiene	225	7.846	7.842	0.004	96	1555723	16.0	16.6	
84 Caprolactam	113	8.119	8.067	0.052	81	1240964	32.0	32.1	
85 4-Chloro-3-methylphenol	107	8.167	8.152	0.015	93	1757089	16.0	16.0	
87 2-Methylnaphthalene	142	8.338	8.334	0.004	91	4751616	16.0	16.0	
89 1-Methylnaphthalene	142	8.423	8.419	0.004	93	4508605	16.0	16.1	
90 Hexachlorocyclopentadiene	237	8.471	8.467	0.004	93	1909298	16.0	17.1	
91 1,2,4,5-Tetrachlorobenzene	216	8.482	8.478	0.004	96	2698777	16.0	16.1	
93 2,4,6-Trichlorophenol	196	8.562	8.558	0.004	91	1788028	16.0	16.8	
94 2,4,5-Trichlorophenol	196	8.600	8.590	0.010	95	1735466	16.0	16.5	
96 1,1'-Biphenyl	154	8.722	8.713	0.009	96	5756474	16.0	15.6	
97 2-Chloronaphthalene	162	8.754	8.750	0.004	95	4598835	16.0	15.7	
100 2-Nitroaniline	65	8.818	8.815	0.003	89	1094884	16.0	16.4	
105 Dimethyl phthalate	163	8.947	8.937	0.010	100	4550901	16.0	14.4	
106 1,3-Dinitrobenzene	168	8.989	8.980	0.009	95	812171	16.0	16.0	
107 2,6-Dinitrotoluene	165	9.011	9.001	0.010	92	1162541	16.0	15.1	
108 Acenaphthylene	152	9.112	9.108	0.004	97	6953337	16.0	15.4	
109 3-Nitroaniline	138	9.166	9.156	0.010	97	1042649	16.0	21.9	
111 2,4-Dinitrophenol	184	9.251	9.242	0.009	84	1631190	32.0	34.3	
110 Acenaphthene	153	9.256	9.252	0.004	95	4814783	16.0	15.6	
112 4-Nitrophenol	109	9.278	9.258	0.020	86	1323727	32.0	33.1	
114 2,4-Dinitrotoluene	165	9.353	9.349	0.004	95	1629105	16.0	16.5	
115 Dibenzofuran	168	9.401	9.397	0.004	96	6547667	16.0	15.6	
118 2,3,4,6-Tetrachlorophenol	232	9.491	9.488	0.003	70	1491255	16.0	16.8	
121 Hexadecane	57	9.518	9.514	0.004	97	2348309	16.0	15.8	
120 Diethyl phthalate	149	9.529	9.520	0.009	99	5035760	16.0	16.0	
123 4-Chlorophenyl phenyl ethe	204	9.662	9.658	0.004	88	2796812	16.0	16.3	
126 4-Nitroaniline	138	9.689	9.674	0.015	91	984494	16.0	15.4	
124 Fluorene	166	9.694	9.685	0.009	93	5366019	16.0	16.0	
127 4,6-Dinitro-2-methylphenol	198	9.710	9.696	0.014	97	1907928	32.0	34.6	
129 Diphenylamine	169	9.759	9.749	0.009	93	3824672	13.7	13.7	
130 N-Nitrosodiphenylamine	169	9.759	9.749	0.009	63	3824672	16.0	16.0	
131 1,2-Diphenylhydrazine	77	9.796	9.792	0.004	44	4486844	16.0	15.6	
132 Azobenzene	77	9.796	9.792	0.004	97	4486844	16.0	15.6	
139 4-Bromophenyl phenyl ether	248	10.079	10.075	0.004	62	1713013	16.0	16.5	
143 Atrazine	200	10.180	10.166	0.014	95	2894635	32.0	31.8	
140 Hexachlorobenzene	284	10.170	10.166	0.004	93	1786698	16.0	17.0	
148 n-Octadecane	57	10.287	10.289	-0.002	95	2373975	16.0	16.0	
145 Pentachlorophenol	266	10.319	10.315	0.004	93	2228785	32.0	35.5	
151 Phenanthrene	178	10.512	10.508	0.004	98	7533104	16.0	15.0	
152 Anthracene	178	10.560	10.550	0.010	97	7634434	16.0	15.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.672	10.663	0.009	95	4571788	16.0	20.1	M
157 Di-n-butyl phthalate	149	10.891	10.887	0.004	100	7645917	16.0	14.3	e
164 Fluoranthene	202	11.574	11.565	0.009	97	8436188	16.0	15.4	
166 Benzidine	184	11.660	11.651	0.009	99	6621199	32.0	40.6	M
167 Pyrene	202	11.815	11.811	0.004	95	8681712	16.0	15.1	
174 Butyl benzyl phthalate	149	12.424	12.414	0.010	96	3772305	16.0	15.8	
181 Bis(2-ethylhexyl) phthalat	149	13.150	13.146	0.004	94	5495412	16.0	16.0	
179 3,3'-Dichlorobenzidine	252	13.193	13.178	0.015	72	5647584	32.0	36.0	M
180 Benzo[a]anthracene	228	13.273	13.264	0.009	98	8928788	16.0	15.7	
182 Chrysene	228	13.332	13.317	0.015	95	8180673	16.0	15.4	
184 Di-n-octyl phthalate	149	14.133	14.129	0.004	99	9041596	16.0	16.3	
186 Benzo[b]fluoranthene	252	14.934	14.919	0.015	97	8598450	16.0	16.3	
187 Benzo[k]fluoranthene	252	14.982	14.962	0.020	98	8193914	16.0	15.0	
189 Benzo[a]pyrene	252	15.484	15.464	0.020	78	8302611	16.0	16.3	
193 Indeno[1,2,3-cd]pyrene	276	17.514	17.478	0.036	99	9578291	16.0	16.6	
194 Dibenz(a,h)anthracene	278	17.530	17.494	0.036	92	8005673	16.0	16.6	
195 Benzo[g,h,i]perylene	276	18.091	18.055	0.036	97	7955150	16.0	16.6	
S 263 3-Methylphenol	1				0			16.2	
S 262 3 & 4 Methylphenol	108				0			16.2	
S 261 Total Cresols	1				0			32.2	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00340	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

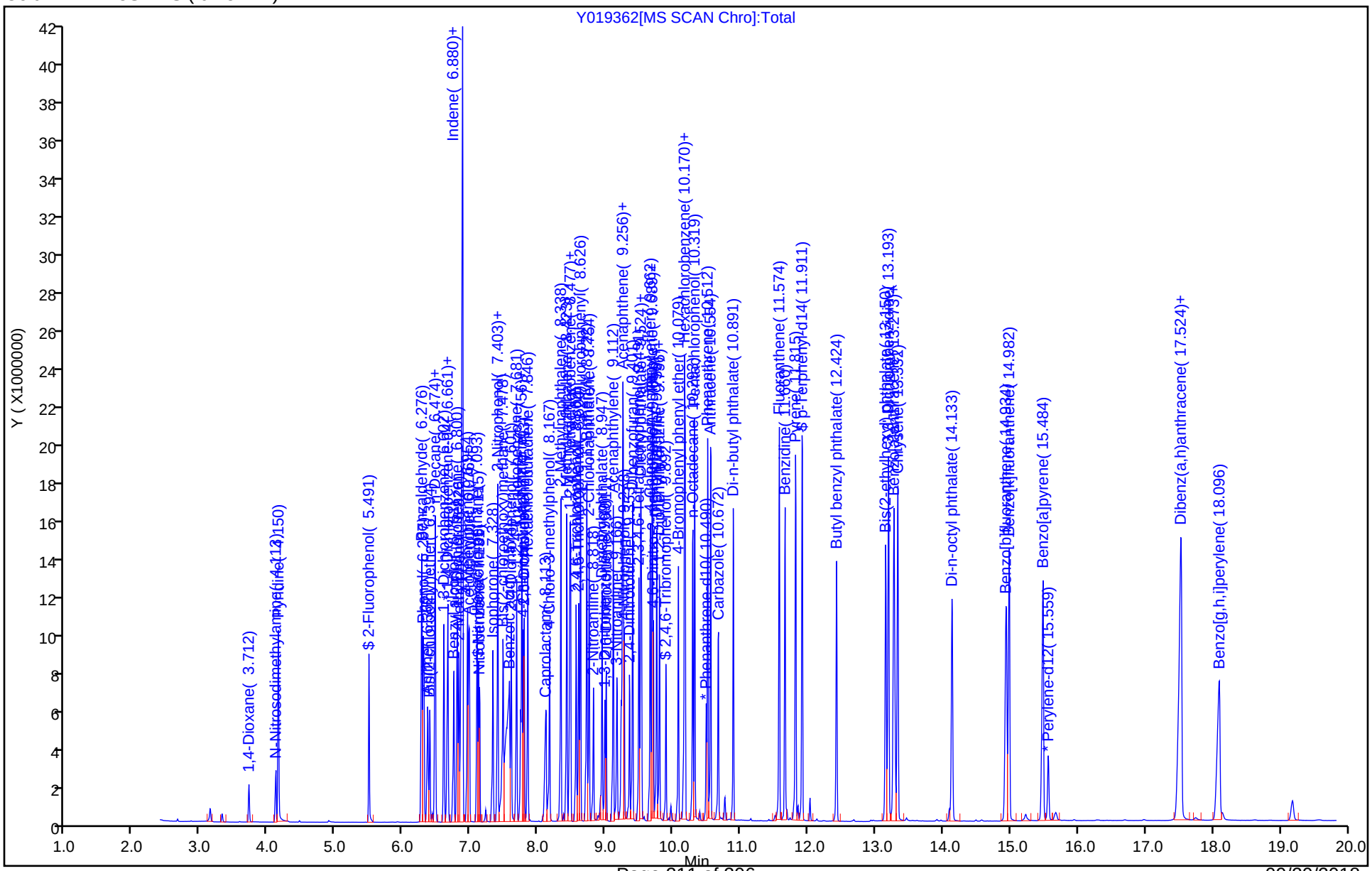
Report Date: 29-Aug-2018 12:40:13 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D

Injection Date:	28-Aug-2018 19:19:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	IC - List 1 - 16.0			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

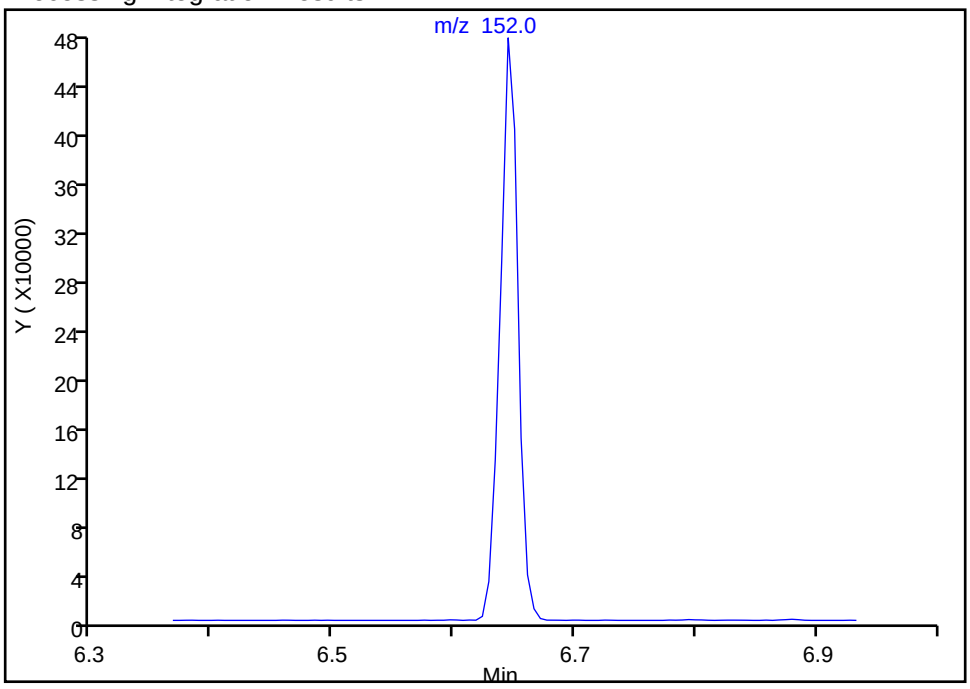
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

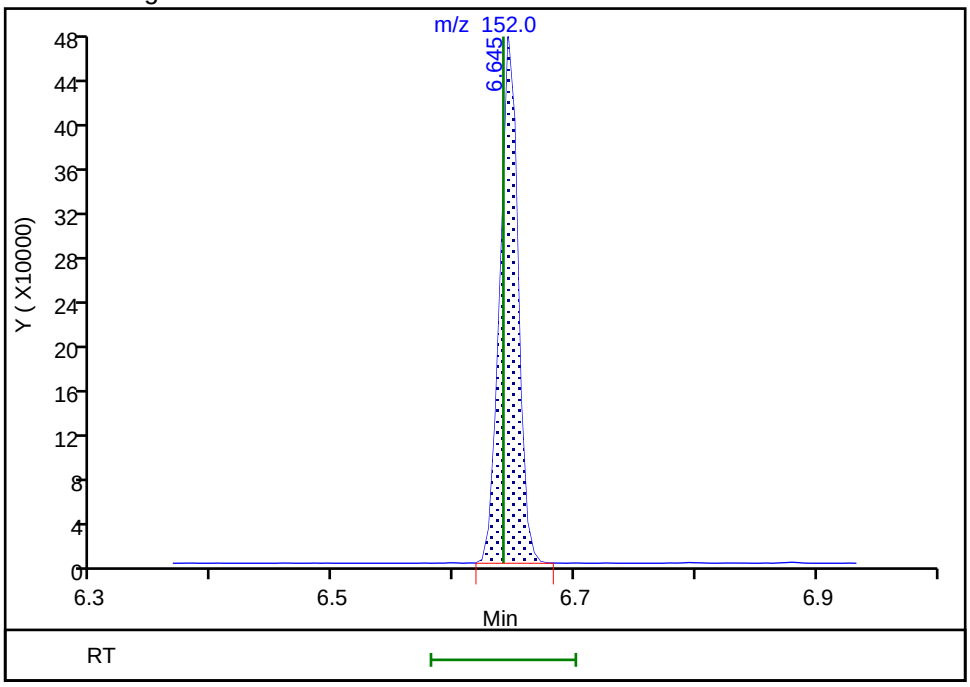
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.64
Area: 488598
Amount: 4.000000
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:18:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

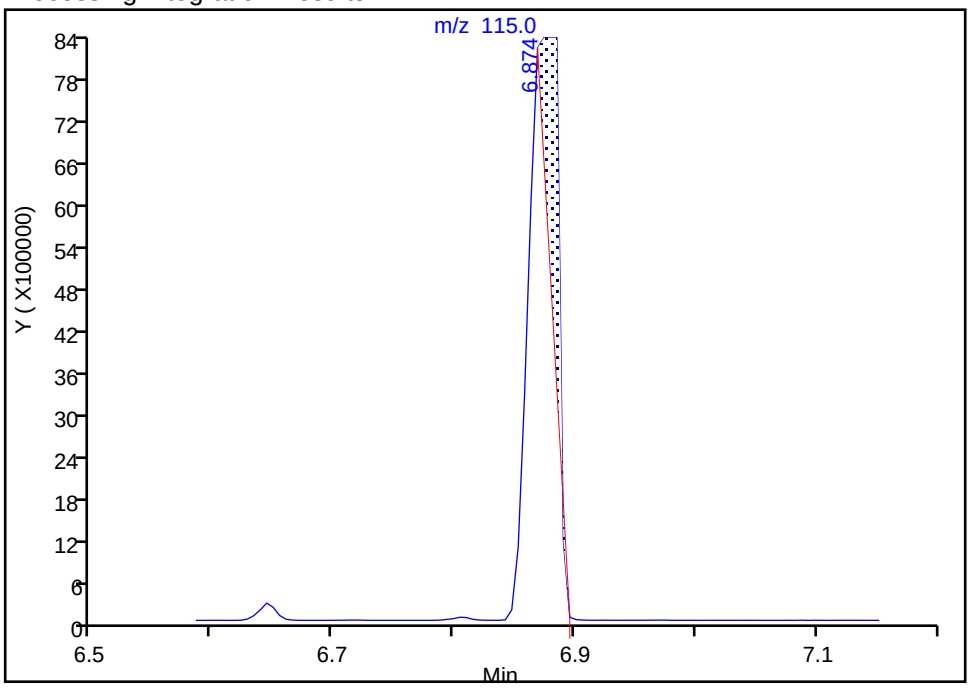
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

47 Indene, CAS: 95-13-6

Signal: 1

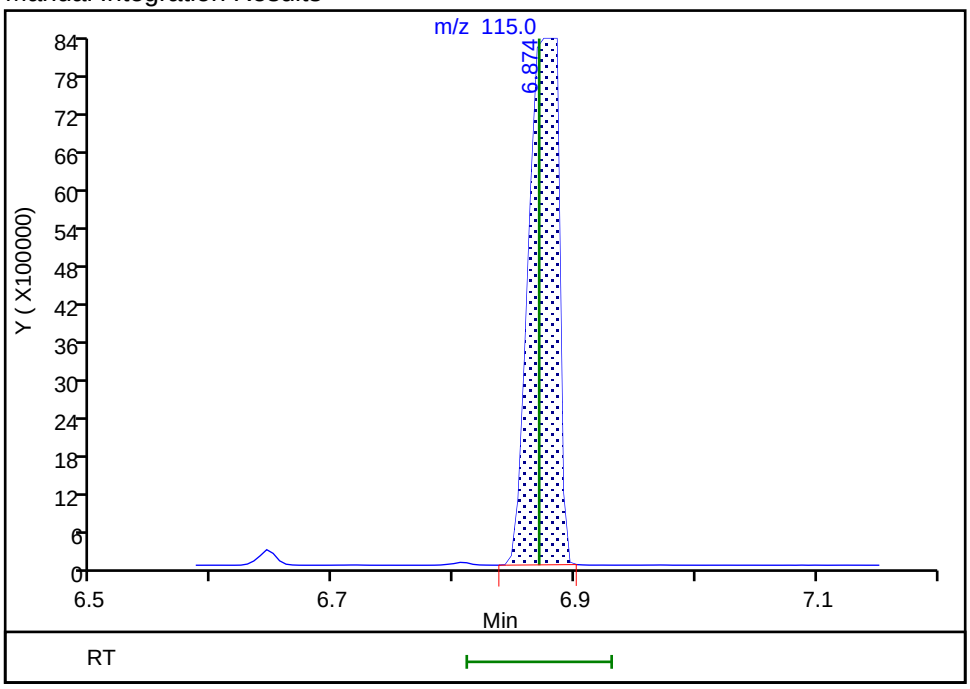
Processing Integration Results

RT: 6.87
Area: 3123598
Amount: 13.616414
Amount Units: ng/uL



Manual Integration Results

RT: 6.87
Area: 14459036
Amount: 53.370579
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:18:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

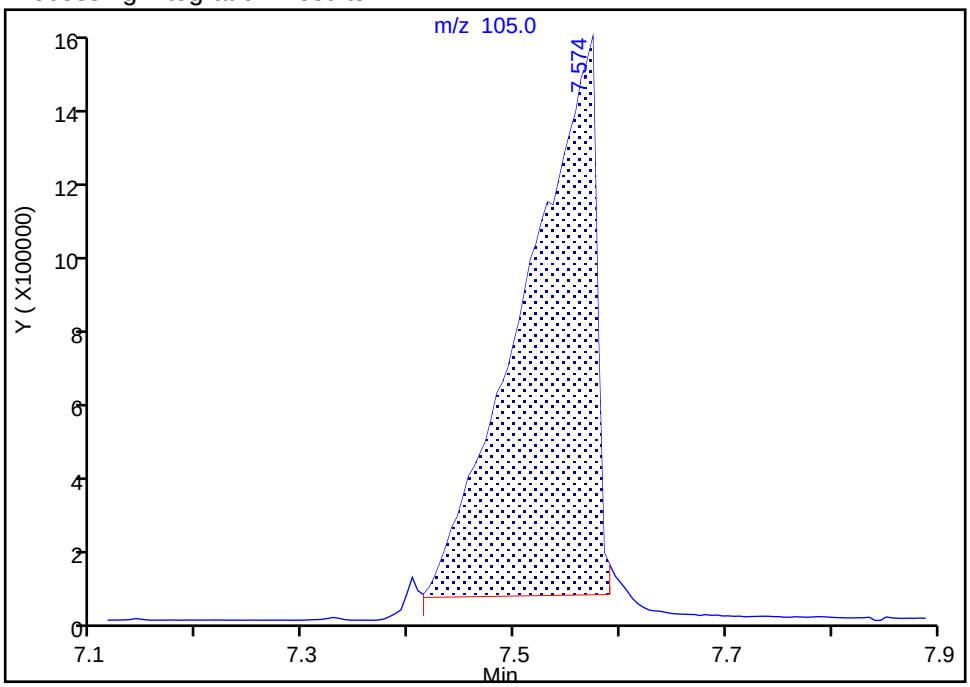
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

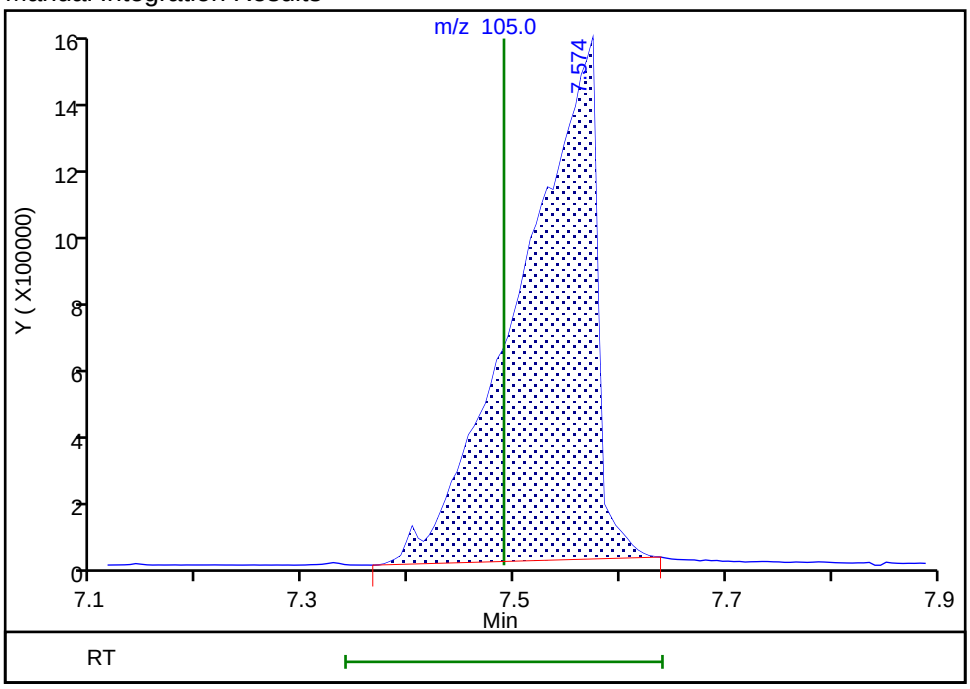
Processing Integration Results

RT: 7.57
Area: 7145339
Amount: 79.344358
Amount Units: ng/uL



Manual Integration Results

RT: 7.57
Area: 7936482
Amount: 84.689550
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:18:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

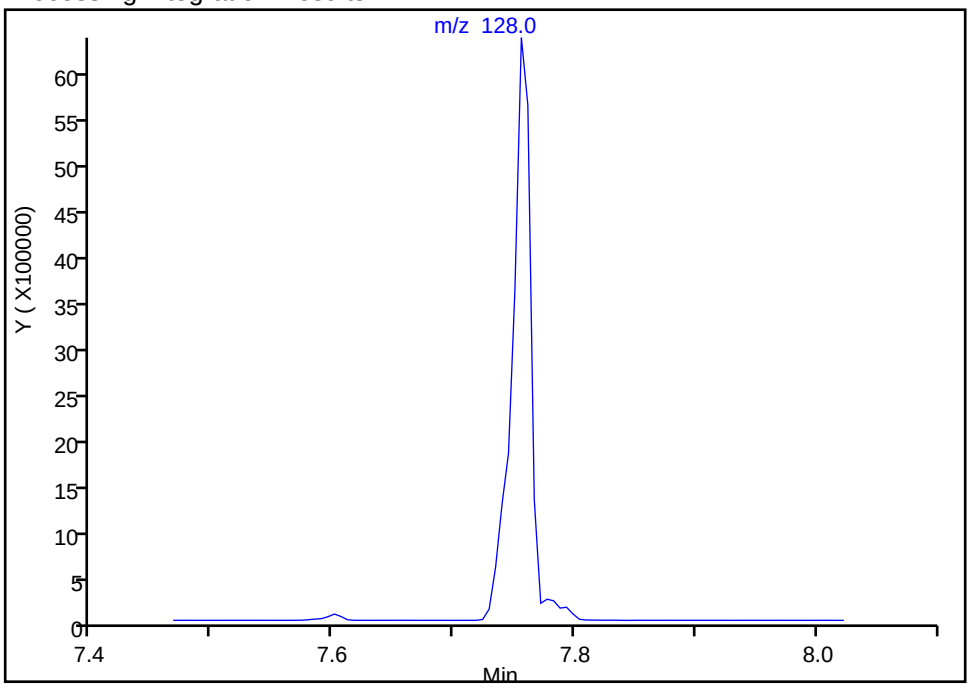
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

74 Naphthalene, CAS: 91-20-3

Signal: 1

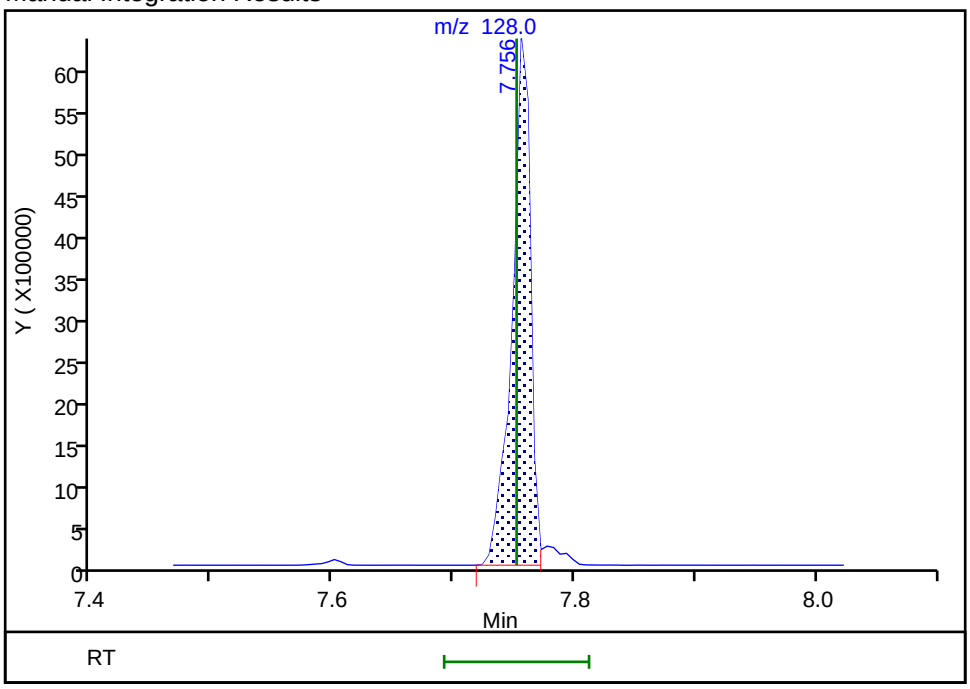
Not Detected
Expected RT: 7.75

Processing Integration Results



Manual Integration Results

RT: 7.76
Area: 6652231
Amount: 15.241803
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 10:18:58
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

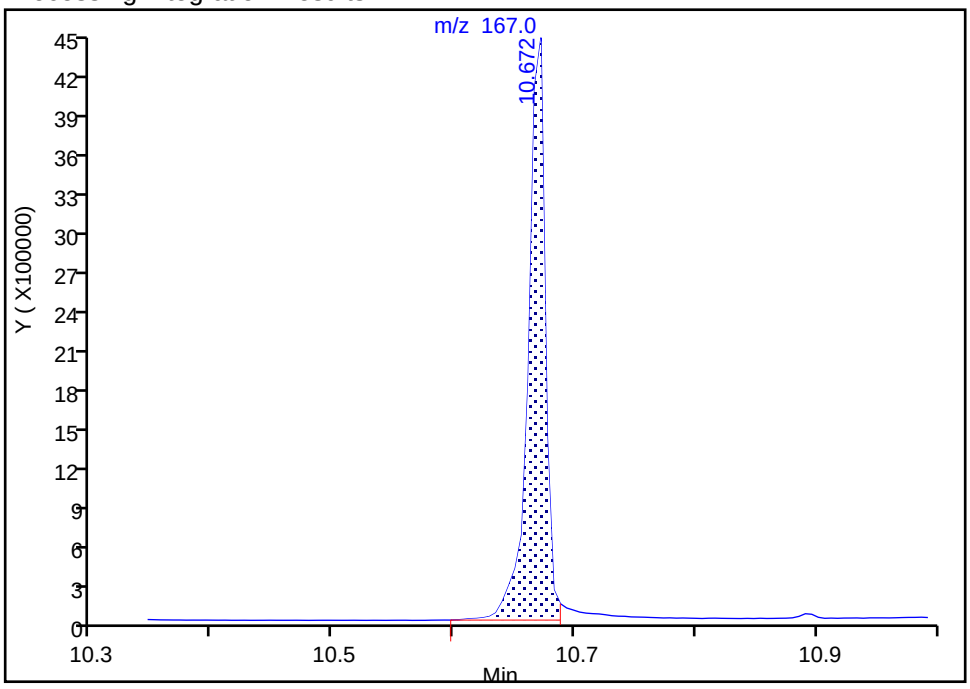
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 Carbazole, CAS: 86-74-8

Signal: 1

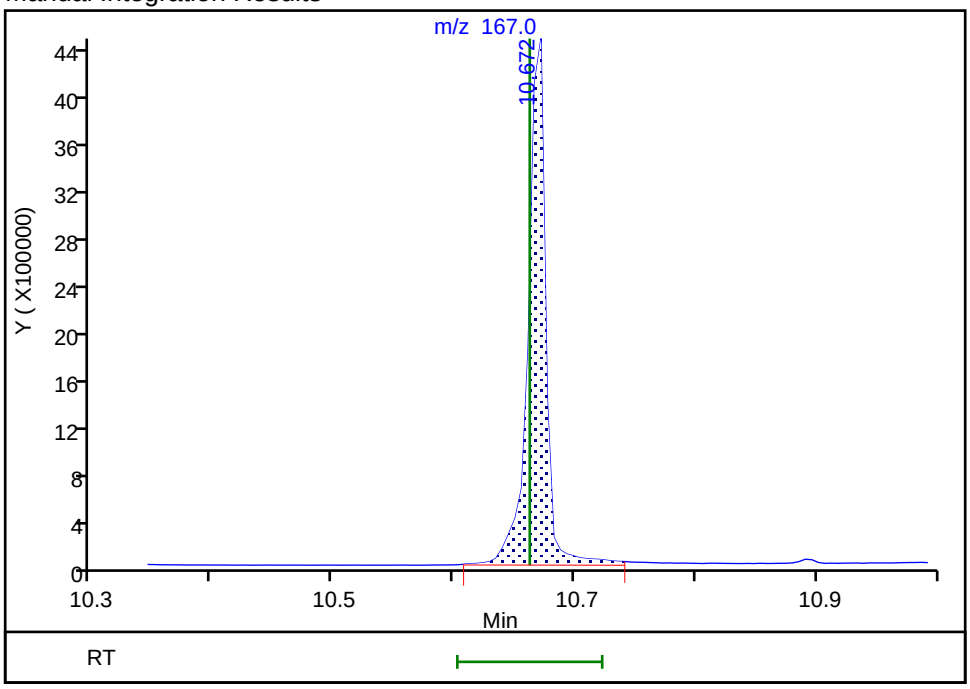
Processing Integration Results

RT: 10.67
Area: 4396740
Amount: 14.129203
Amount Units: ng/uL



Manual Integration Results

RT: 10.67
Area: 4571788
Amount: 20.131918
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 12:25:06
Audit Action: Located Compound Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

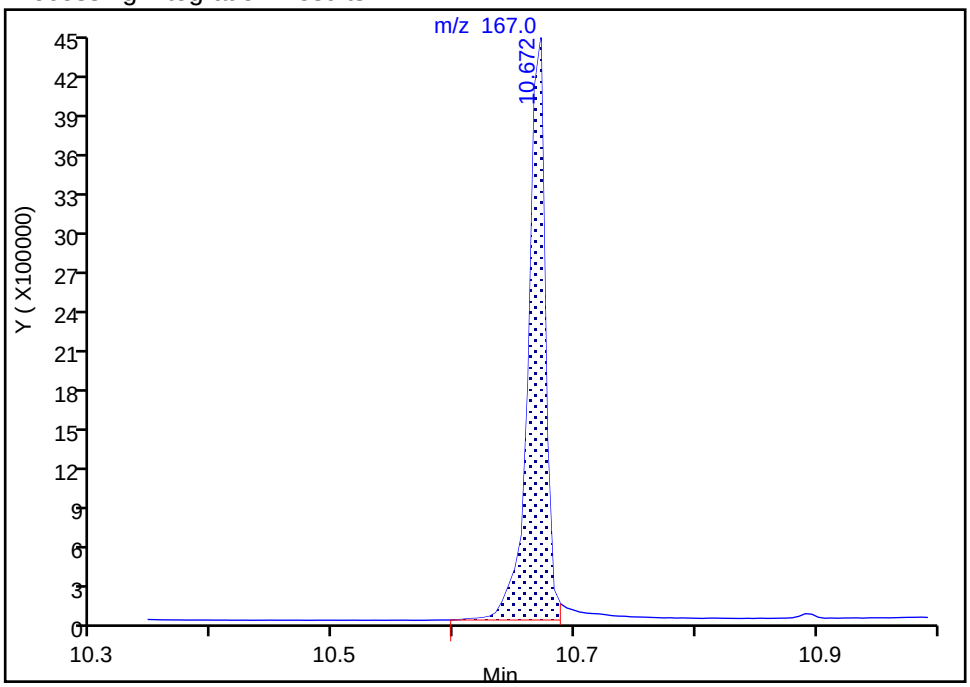
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 Carbazole, CAS: 86-74-8

Signal: 1

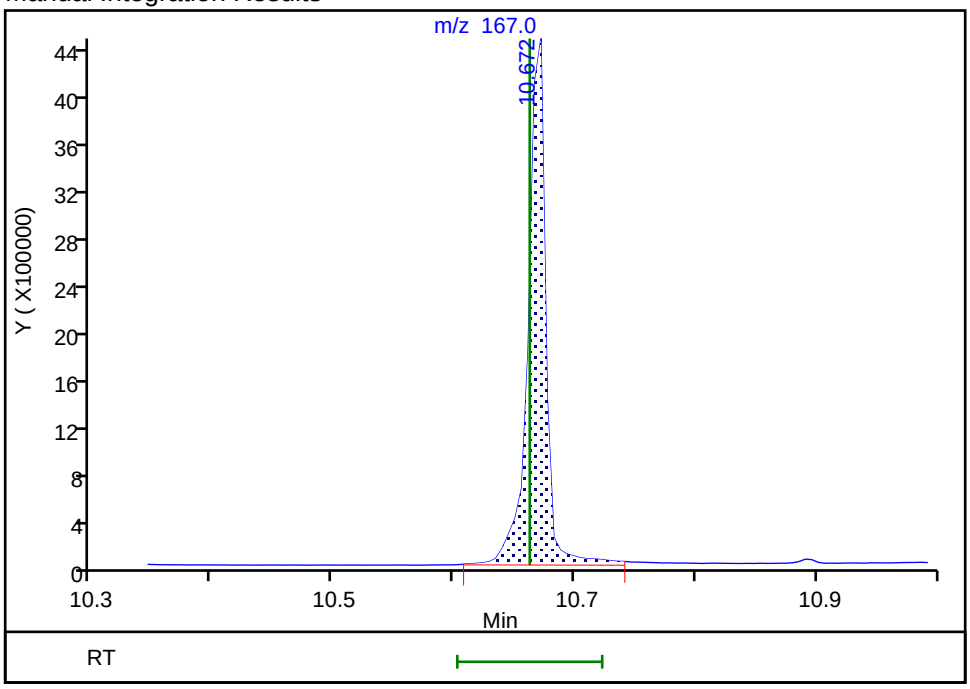
Processing Integration Results

RT: 10.67
Area: 4396740
Amount: 14.129203
Amount Units: ng/uL



Manual Integration Results

RT: 10.67
Area: 4571788
Amount: 20.131918
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 12:26:06
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

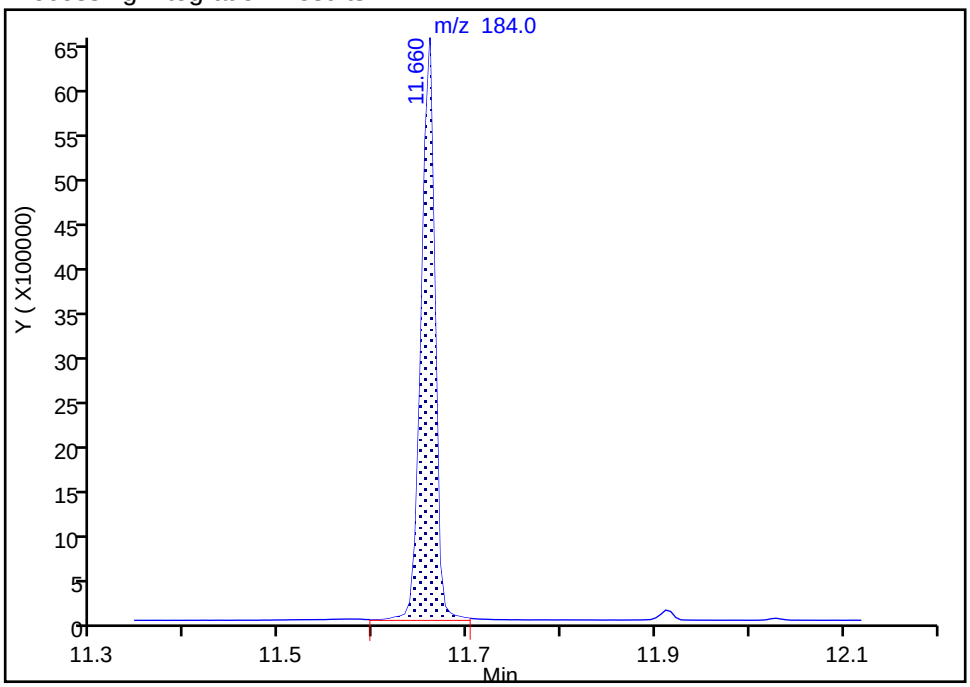
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

166 Benzidine, CAS: 92-87-5

Signal: 1

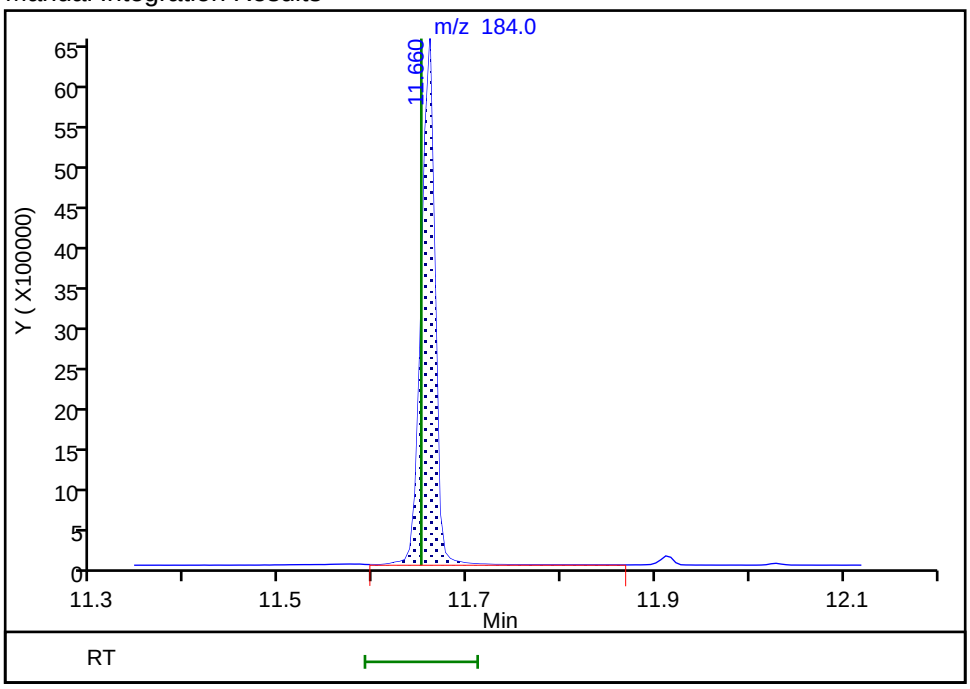
Processing Integration Results

RT: 11.66
Area: 6557613
Amount: 38.785397
Amount Units: ng/uL



Manual Integration Results

RT: 11.66
Area: 6621199
Amount: 40.596173
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:37:28
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

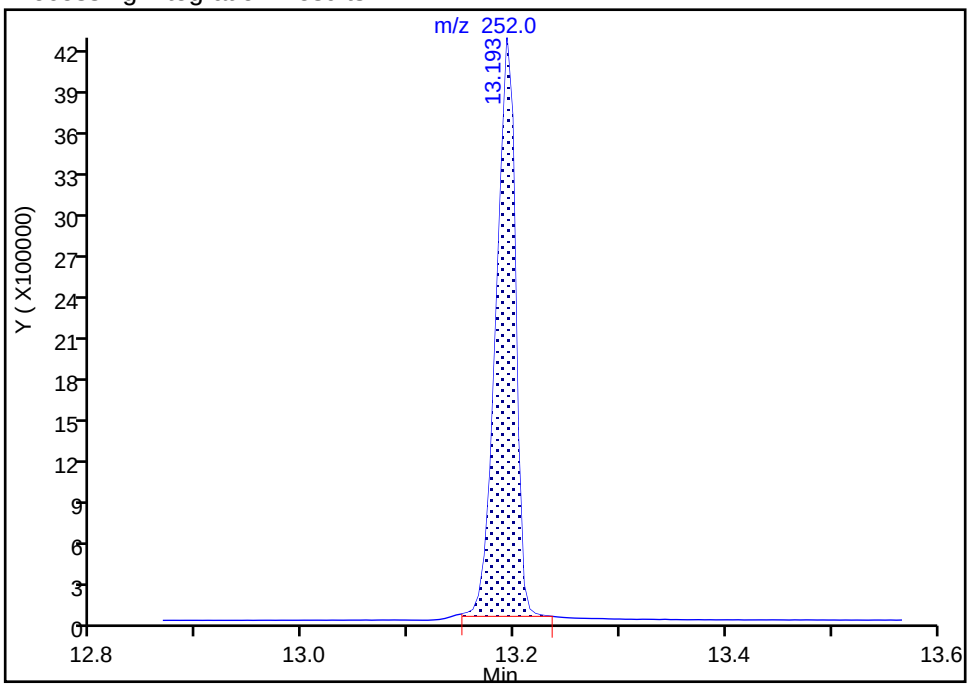
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019362.D
Injection Date: 28-Aug-2018 19:19:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16.0
Client ID:
Operator ID: BS ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

179 3,3'-Dichlorobenzidine, CAS: 91-94-1

Signal: 1

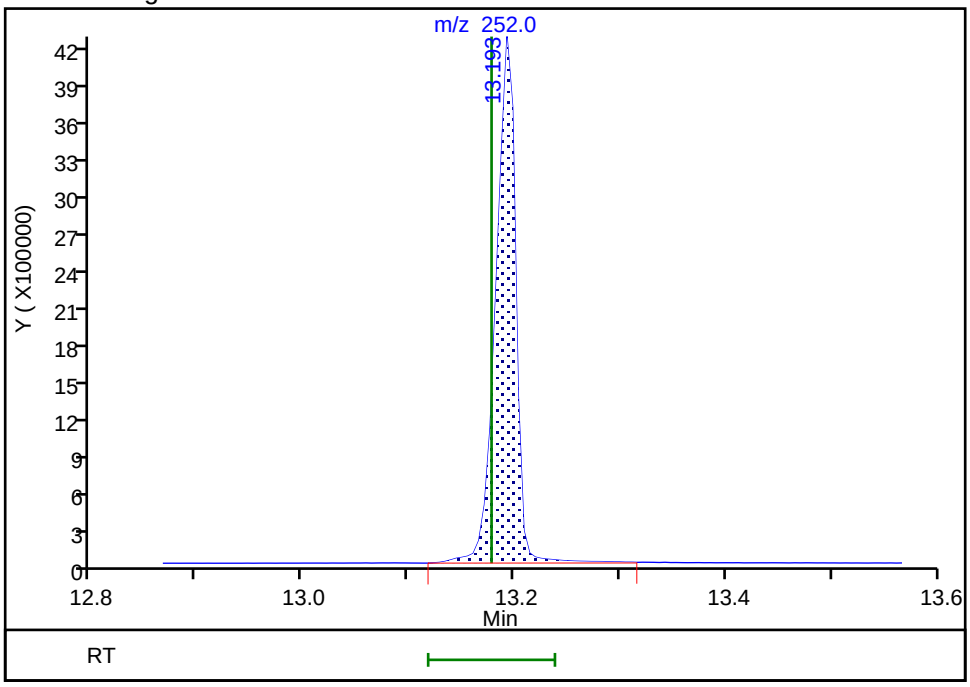
Processing Integration Results

RT: 13.19
Area: 5410346
Amount: 35.268826
Amount Units: ng/uL



Manual Integration Results

RT: 13.19
Area: 5647584
Amount: 36.016044
Amount Units: ng/uL



Reviewer: schickr, 29-Aug-2018 11:39:14
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID (1): CCVIS 480-433584/3 Instrument ID (1): HP5973Y

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 09/10/2018 16:27

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	14.86	20.60

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID: CCVIS 480-433584/3 Calibration Date: 09/10/2018 16:27

Instrument ID: HP5973Y Calib Start Date: 08/28/2018 16:00

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/28/2018 19:19

Lab File ID: Y019612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4455	0.3550	0.0100	3190	4000	-20.3*	20.0
N-Nitrosodimethylamine	Ave	0.5601	0.4794	0.0100	3420	4000	-14.4	50.0
Pyridine	Ave	0.6496	0.4936	0.0100	6080	8000	-24.0	50.0
Benzaldehyde	Ave	0.9147	0.8093	0.0100	7080	8000	-11.5	50.0
Phenol	Ave	1.350	1.190	0.8000	3530	4000	-11.8	20.0
Aniline	Ave	1.600	0.9436	0.0100	2360	4000	-41.0*	20.0
Bis(2-chloroethyl)ether	Ave	1.097	1.130	0.7000	4120	4000	3.1	20.0
2-Chlorophenol	Ave	1.211	1.179	0.8000	3890	4000	-2.6	20.0
n-Decane	Ave	1.059	0.8561	0.0100	3230	4000	-19.2	20.0
1,3-Dichlorobenzene	Ave	1.463	1.444	0.0100	3950	4000	-1.3	20.0
1,4-Dichlorobenzene	Ave	1.492	1.451	0.0100	3890	4000	-2.8	20.0
Benzyl alcohol	Ave	0.7053	0.5995	0.0100	3400	4000	-15.0	20.0
1,2-Dichlorobenzene	Ave	1.423	1.402	0.0100	3940	4000	-1.5	20.0
2-Methylphenol	Ave	1.029	0.9541	0.7000	3710	4000	-7.3	20.0
bis (2-chloroisopropyl) ether	Ave	1.513	1.145	0.0100	3030	4000	-24.3*	20.0
Indene	Ave	2.218	2.040	0.0100	18400	20000	-8.0	20.0
4-Methylphenol	Ave	1.043	0.9377	0.6000	3600	4000	-10.1	20.0
N-Nitrosodi-n-propylamine	Ave	0.7436	0.6204	0.5000	3340	4000	-16.6	20.0
Acetophenone	Ave	1.517	1.397	0.0100	3680	4000	-7.9	20.0
Hexachloroethane	Ave	0.5539	0.5354	0.3000	3870	4000	-3.3	20.0
Nitrobenzene	Ave	0.3196	0.2952	0.2000	3690	4000	-7.7	20.0
Isophorone	Ave	0.5788	0.5423	0.4000	3750	4000	-6.3	20.0
2-Nitrophenol	Lin2		0.2050	0.1000	4490	4000	12.2	20.0
2,4-Dimethylphenol	Ave	0.3138	0.3115	0.2000	3970	4000	-0.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.3585	0.3279	0.3000	3660	4000	-8.5	20.0
Benzoic acid	Lin2		0.1248	0.0100	13400	20000	-33.2	50.0
2,4-Dichlorophenol	Lin2		0.3267	0.2000	4240	4000	5.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3667	0.4018	0.0100	4380	4000	9.6	20.0
Naphthalene	Ave	1.026	0.9824	0.7000	3830	4000	-4.3	20.0
4-Chloroaniline	Ave	0.3497	0.2031	0.0100	2320	4000	-41.9*	20.0
2,6-Dichlorophenol	Lin2		0.3186	0.0100	4120	4000	3.1	20.0
Hexachlorobutadiene	Ave	0.2197	0.2551	0.0100	4640	4000	16.1	20.0
Caprolactam	Lin2		0.0859	0.0100	7640	8000	-4.5	50.0
4-Chloro-3-methylphenol	Lin2		0.2469	0.2000	3870	4000	-3.2	20.0
2-Methylnaphthalene	Ave	0.6982	0.7191	0.4000	4120	4000	3.0	20.0
1-Methylnaphthalene	Ave	0.6566	0.6787	0.0100	4130	4000	3.4	20.0
Hexachlorocyclopentadiene	Lin2		0.4549	0.0500	3890	4000	-2.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7086	0.7756	0.0100	4380	4000	9.4	20.0
2,4,6-Trichlorophenol	Lin2		0.4495	0.2000	4050	4000	1.4	20.0
2,4,5-Trichlorophenol	Lin2		0.4666	0.2000	4230	4000	5.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID: CCVIS 480-433584/3 Calibration Date: 09/10/2018 16:27

Instrument ID: HP5973Y Calib Start Date: 08/28/2018 16:00

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/28/2018 19:19

Lab File ID: Y019612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.564	1.521	0.0100	3890	4000	-2.7	20.0
2-Chloronaphthalene	Ave	1.238	1.211	0.8000	3910	4000	-2.3	20.0
2-Nitroaniline	Lin2		0.2408	0.0100	3490	4000	-12.7	20.0
Dimethyl phthalate	Ave	1.342	1.400	0.0100	4170	4000	4.3	20.0
1,3-Dinitrobenzene	Lin2		0.1248	0.0100	4280	4000	6.9	20.0
2,6-Dinitrotoluene	Lin2		0.3222	0.2000	4020	4000	0.5	20.0
Acenaphthylene	Lin2		1.881	0.9000	3940	4000	-1.6	20.0
3-Nitroaniline	Ave	0.2012	0.0958	0.0100	1900	4000	-52.4*	20.0
2,4-Dinitrophenol	Lin2		0.1663	0.0100	7530	8000	-5.9	20.0
Acenaphthene	Ave	1.306	1.277	0.9000	3910	4000	-2.3	20.0
4-Nitrophenol	Lin2		0.1467	0.0100	7570	8000	-5.3	20.0
2,4-Dinitrotoluene	Lin2		0.4206	0.2000	4100	4000	2.6	20.0
Dibenzofuran	Ave	1.781	1.760	0.8000	3950	4000	-1.2	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3828	0.0100	4120	4000	3.0	20.0
Hexadecane	Ave	0.6277	0.5294	0.0100	3370	4000	-15.7	20.0
Diethyl phthalate	Ave	1.335	1.346	0.0100	4030	4000	0.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.7267	0.7917	0.4000	4360	4000	8.9	20.0
4-Nitroaniline	Lin2		0.2487	0.0100	3610	4000	-9.7	20.0
Fluorene	Ave	1.416	1.421	0.9000	4010	4000	0.3	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1180	0.0100	8070	8000	0.9	20.0
Diphenylamine	Ave	0.6113	0.5930	0.0100	3320	3420	-3.0	20.0
N-Nitrosodiphenylamine	Ave	0.5226	0.5070	0.0100	3880	4000	-3.0	20.0
1,2-Diphenylhydrazine	Ave	0.6301	0.5481	0.0100	3480	4000	-13.0	20.0
trans-Azobenzene	Ave	0.6301	0.5481	0.0100	3480	4000	-13.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2278	0.2396	0.1000	4210	4000	5.2	20.0
Hexachlorobenzene	Ave	0.2305	0.2420	0.1000	4200	4000	5.0	20.0
Atrazine	Ave	0.3856	0.4078	0.0100	8460	8000	5.8	20.0
n-Octadecane	Ave	0.3253	0.2734	0.0100	3360	4000	-16.0	20.0
Pentachlorophenol	Lin2		0.1144	0.0500	6870	8000	-14.2	20.0
Phenanthrene	Ave	1.097	1.080	0.7000	3940	4000	-1.5	20.0
Anthracene	Ave	1.079	1.094	0.7000	4060	4000	1.4	20.0
Carbazole	Lin2		0.5950	0.0100	4010	4000	0.2	20.0
Di-n-butyl phthalate	Lin2		1.208	0.0100	4160	4000	4.0	20.0
Fluoranthene	Ave	1.201	1.296	0.6000	4320	4000	7.9	20.0
Benzidine	Ave	0.3566	0.2120	0.0100	4750	8000	-40.6	50.0
Pyrene	Ave	1.260	1.270	0.6000	4030	4000	0.8	20.0
Butyl benzyl phthalate	Lin2		0.4957	0.0100	3870	4000	-3.2	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.7275	0.0100	3950	4000	-1.2	20.0
3,3'-Dichlorobenzidine	Ave	0.3429	0.2776	0.0100	6480	8000	-19.0	50.0
Benzo[a]anthracene	Ave	1.243	1.245	0.8000	4010	4000	0.2	20.0
Chrysene	Ave	1.158	1.160	0.7000	4010	4000	0.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Lab Sample ID: CCVIS 480-433584/3 Calibration Date: 09/10/2018 16:27

Instrument ID: HP5973Y Calib Start Date: 08/28/2018 16:00

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/28/2018 19:19

Lab File ID: Y019612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin2		1.158	0.0100	3920	4000	-2.1	20.0
Benzo[b]fluoranthene	Lin2		1.215	0.7000	4120	4000	2.9	20.0
Benzo[k]fluoranthene	Lin2		1.268	0.7000	4160	4000	4.1	20.0
Benzo[a]pyrene	Lin2		1.144	0.7000	4040	4000	0.9	20.0
Indeno[1,2,3-cd]pyrene	Lin2		1.320	0.5000	4100	4000	2.6	20.0
Dibenz(a,h)anthracene	Lin2		1.102	0.4000	4100	4000	2.5	20.0
Benzo[g,h,i]perylene	Lin2		1.101	0.5000	4100	4000	2.5	20.0
2-Fluorophenol (Surr)	Ave	1.169	1.080	0.0100	3700	4000	-7.6	20.0
Phenol-d5 (Surr)	Ave	1.449	1.302	0.0100	3590	4000	-10.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3985	0.3391	0.0100	3400	4000	-14.9	20.0
2-Fluorobiphenyl	Ave	1.668	1.706	0.0100	4090	4000	2.3	20.0
2,4,6-Tribromophenol (Surr)	Lin2		0.0973	0.0100	3880	4000	-3.1	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9335	0.9363	0.0100	4010	4000	0.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019612.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Sep-2018 16:27:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074536-003
Operator ID: BS Instrument ID: HP5973Y
Sublist: chrom-Y-LVI-8270*sub36

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:46:31 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 10-Sep-2018 16:52:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.610	6.610	0.000	92	430160	4.00	4.00	
* 2 Naphthalene-d8	136	7.700	7.700	0.000	99	1478596	4.00	4.00	
* 3 Acenaphthene-d10	164	9.190	9.190	0.000	95	862610	4.00	4.00	
* 4 Phenanthrene-d10	188	10.451	10.451	0.000	96	1689324	4.00	4.00	
* 5 Chrysene-d12	240	13.223	13.223	0.000	99	1764372	4.00	4.00	
* 6 Perylene-d12	264	15.487	15.487	0.000	98	1761144	4.00	4.00	
$ 7 2-Fluorophenol	112	5.462	5.462	0.000	90	464596	4.00	3.70	
$ 8 Phenol-d5	99	6.269	6.269	0.000	92	559869	4.00	3.59	
$ 9 Nitrobenzene-d5	82	7.080	7.080	0.000	87	501311	4.00	3.40	
$ 10 2-Fluorobiphenyl	172	8.592	8.592	0.000	99	1471954	4.00	4.09	
$ 11 2,4,6-Tribromophenol	330	9.852	9.852	0.000	92	164398	4.00	3.88	
$ 12 p-Terphenyl-d14	244	11.866	11.866	0.000	99	1651889	4.00	4.01	
13 1,4-Dioxane	88	3.651	3.651	0.000	91	152697	4.00	3.19	
14 N-Nitrosodimethylamine	42	4.068	4.068	0.000	87	206217	4.00	3.42	
15 Pyridine	52	4.105	4.105	0.000	96	424647	8.00	6.08	
35 Benzaldehyde	77	6.237	6.237	0.000	95	696227	8.00	7.08	
37 Phenol	94	6.279	6.279	0.000	99	511868	4.00	3.53	
36 Aniline	93	6.327	6.327	0.000	99	405913	4.00	2.36	
39 Bis(2-chloroethyl)ether	93	6.359	6.359	0.000	99	486227	4.00	4.12	
40 2-Chlorophenol	128	6.434	6.434	0.000	94	507301	4.00	3.89	
41 n-Decane	57	6.440	6.440	0.000	90	368276	4.00	3.23	
43 1,3-Dichlorobenzene	146	6.568	6.568	0.000	99	620967	4.00	3.95	
44 1,4-Dichlorobenzene	146	6.626	6.626	0.000	95	624241	4.00	3.89	
45 Benzyl alcohol	108	6.712	6.712	0.000	93	257895	4.00	3.40	
46 1,2-Dichlorobenzene	146	6.760	6.760	0.000	98	602964	4.00	3.94	
48 2-Methylphenol	108	6.792	6.792	0.000	95	410393	4.00	3.71	
49 2,2'-oxybis[1-chloropropan	45	6.813	6.813	0.000	90	492636	4.00	3.03	
47 Indene	115	6.840	6.840	0.000	89	4388470	20.0	18.4	
57 4-Methylphenol	108	6.920	6.920	0.000	97	403355	4.00	3.60	
53 N-Nitrosodi-n-propylamine	70	6.926	6.926	0.000	88	266876	4.00	3.34	
52 Acetophenone	105	6.942	6.942	0.000	98	601013	4.00	3.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
58 Hexachloroethane	117	7.054	7.054	0.000	87	230306	4.00	3.87	
59 Nitrobenzene	77	7.096	7.096	0.000	85	436414	4.00	3.69	
62 Isophorone	82	7.289	7.289	0.000	98	801882	4.00	3.75	
64 2-Nitrophenol	139	7.364	7.364	0.000	85	303178	4.00	4.49	
66 2,4-Dimethylphenol	107	7.369	7.369	0.000	90	460559	4.00	3.97	
69 Bis(2-chloroethoxy)methane	93	7.444	7.444	0.000	98	484763	4.00	3.66	
70 Benzoic acid	105	7.460	7.460	0.000	90	922794	20.0	13.4	
72 2,4-Dichlorophenol	162	7.566	7.566	0.000	88	482999	4.00	4.24	
73 1,2,4-Trichlorobenzene	180	7.641	7.641	0.000	94	594114	4.00	4.38	
74 Naphthalene	128	7.721	7.721	0.000	97	1452546	4.00	3.83	
76 4-Chloroaniline	127	7.748	7.748	0.000	97	300324	4.00	2.32	
77 2,6-Dichlorophenol	162	7.759	7.759	0.000	96	471077	4.00	4.12	
79 Hexachlorobutadiene	225	7.812	7.812	0.000	94	377218	4.00	4.64	
84 Caprolactam	113	8.036	8.036	0.000	81	254059	8.00	7.64	
85 4-Chloro-3-methylphenol	107	8.127	8.127	0.000	92	365112	4.00	3.87	
87 2-Methylnaphthalene	142	8.298	8.298	0.000	92	1063245	4.00	4.12	
89 1-Methylnaphthalene	142	8.384	8.384	0.000	92	1003475	4.00	4.13	
90 Hexachlorocyclopentadiene	237	8.432	8.432	0.000	95	392399	4.00	3.89	
91 1,2,4,5-Tetrachlorobenzene	216	8.442	8.442	0.000	95	669026	4.00	4.38	
93 2,4,6-Trichlorophenol	196	8.528	8.528	0.000	88	387751	4.00	4.05	
94 2,4,5-Trichlorophenol	196	8.565	8.565	0.000	93	402482	4.00	4.23	
96 1,1'-Biphenyl	154	8.683	8.683	0.000	95	1312152	4.00	3.89	
97 2-Chloronaphthalene	162	8.715	8.715	0.000	94	1044249	4.00	3.91	
100 2-Nitroaniline	65	8.784	8.784	0.000	91	207738	4.00	3.49	
105 Dimethyl phthalate	163	8.902	8.902	0.000	99	1207361	4.00	4.17	
106 1,3-Dinitrobenzene	168	8.950	8.950	0.000	94	184583	4.00	4.28	
107 2,6-Dinitrotoluene	165	8.966	8.966	0.000	93	277894	4.00	4.02	
108 Acenaphthylene	152	9.073	9.073	0.000	97	1622324	4.00	3.94	
109 3-Nitroaniline	138	9.126	9.126	0.000	95	82593	4.00	1.90	
111 2,4-Dinitrophenol	184	9.206	9.206	0.000	83	286822	8.00	7.53	
110 Acenaphthene	153	9.217	9.217	0.000	93	1101284	4.00	3.91	
112 4-Nitrophenol	109	9.238	9.238	0.000	84	253017	8.00	7.57	
114 2,4-Dinitrotoluene	165	9.313	9.313	0.000	94	362831	4.00	4.10	
115 Dibenzofuran	168	9.361	9.361	0.000	97	1518333	4.00	3.95	
118 2,3,4,6-Tetrachlorophenol	232	9.457	9.457	0.000	69	330189	4.00	4.12	
121 Hexadecane	57	9.479	9.479	0.000	96	456677	4.00	3.37	
120 Diethyl phthalate	149	9.489	9.489	0.000	99	1160780	4.00	4.03	
123 4-Chlorophenyl phenyl ethe	204	9.623	9.623	0.000	85	682882	4.00	4.36	
126 4-Nitroaniline	138	9.644	9.644	0.000	83	214548	4.00	3.61	
124 Fluorene	166	9.649	9.649	0.000	94	1225945	4.00	4.01	
127 4,6-Dinitro-2-methylphenol	198	9.666	9.666	0.000	97	398565	8.00	8.07	
130 N-Nitrosodiphenylamine	169	9.714	9.714	0.000	62	856543	4.00	3.88	
129 Diphenylamine	169	9.714	9.714	0.000	93	856543	3.42	3.32	
131 1,2-Diphenylhydrazine	77	9.756	9.756	0.000	41	925875	4.00	3.48	
132 Azobenzene	77	9.756	9.756	0.000	97	925875	4.00	3.48	
139 4-Bromophenyl phenyl ether	248	10.039	10.039	0.000	61	404675	4.00	4.21	
140 Hexachlorobenzene	284	10.130	10.130	0.000	94	408789	4.00	4.20	
143 Atrazine	200	10.136	10.136	0.000	95	703499	8.00	8.46	
148 n-Octadecane	57	10.253	10.253	0.000	93	461858	4.00	3.36	
145 Pentachlorophenol	266	10.280	10.280	0.000	93	386454	8.00	6.87	
151 Phenanthrene	178	10.472	10.472	0.000	96	1824746	4.00	3.94	
152 Anthracene	178	10.515	10.515	0.000	96	1848457	4.00	4.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
153 Carbazole	167	10.632	10.632	0.000	96	1005220	4.00	4.01	
157 Di-n-butyl phthalate	149	10.857	10.857	0.000	99	2040834	4.00	4.16	
164 Fluoranthene	202	11.524	11.524	0.000	97	2189710	4.00	4.32	
166 Benzidine	184	11.610	11.610	0.000	99	747921	8.00	4.75	
167 Pyrene	202	11.765	11.765	0.000	98	2240899	4.00	4.03	
174 Butyl benzyl phthalate	149	12.368	12.368	0.000	95	874610	4.00	3.87	
181 Bis(2-ethylhexyl) phthalat	149	13.089	13.089	0.000	93	1283487	4.00	3.95	
179 3,3'-Dichlorobenzidine	252	13.127	13.127	0.000	72	979641	8.00	6.48	
180 Benzo[a]anthracene	228	13.207	13.207	0.000	98	2196682	4.00	4.01	
182 Chrysene	228	13.260	13.260	0.000	95	2047469	4.00	4.01	
184 Di-n-octyl phthalate	149	14.067	14.067	0.000	98	2042631	4.00	3.92	
186 Benzo[b]fluoranthene	252	14.857	14.857	0.000	96	2139386	4.00	4.12	
187 Benzo[k]fluoranthene	252	14.900	14.900	0.000	98	2233596	4.00	4.16	
189 Benzo[a]pyrene	252	15.396	15.396	0.000	76	2014885	4.00	4.04	
193 Indeno[1,2,3-cd]pyrene	276	17.389	17.389	0.000	98	2325160	4.00	4.10	
194 Dibenz(a,h)anthracene	278	17.399	17.399	0.000	91	1941460	4.00	4.10	
195 Benzo[g,h,i]perylene	276	17.950	17.950	0.000	98	1938800	4.00	4.10	

Reagents:

MB_L1LVI_WRK_00337	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00152	Amount Added: 20.00	Units: uL	Run Reagent

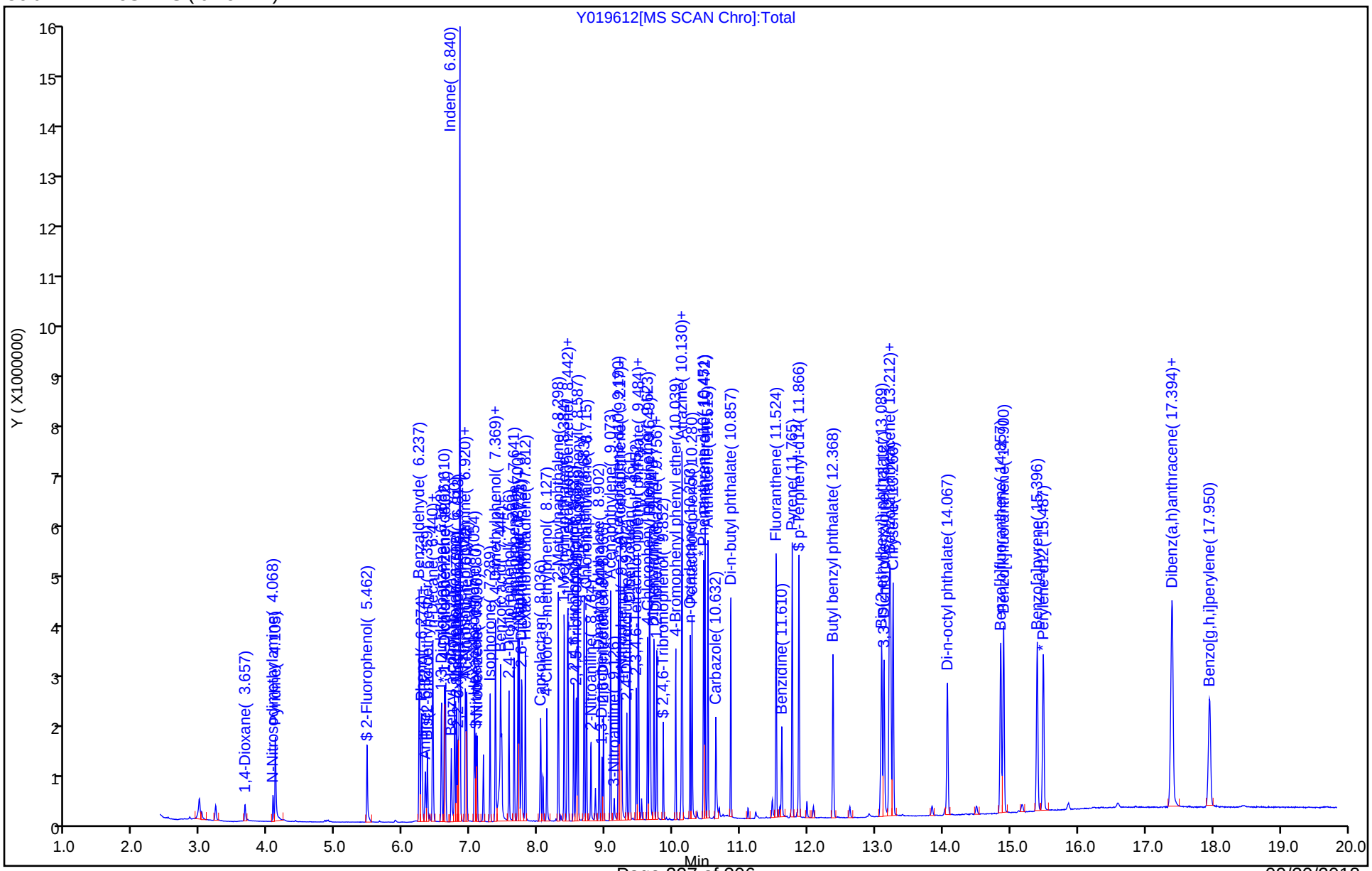
Report Date: 11-Sep-2018 11:46:32 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019612.D

Injection Date:	10-Sep-2018 16:27:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 28-Aug-2018 15:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2018 12:54:20 Calib Date: 29-Aug-2018 02:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019378.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: schickr Date: 28-Aug-2018 15:58:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	10.312	10.312	0.000	92	427398	NR	NR	a
251 DFTPP									
252 Benzidine_T	184	11.653	11.653	0.000	99	1812747	NR	NR	a
253 4,4'-DDE	246	11.840	11.840	0.000	89	2829		NR	
254 4,4'-DDD	235	12.213	12.213	0.000	97	12417		NR	
255 4,4'-DDT	235	12.587	12.587	0.000	98	1422345	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

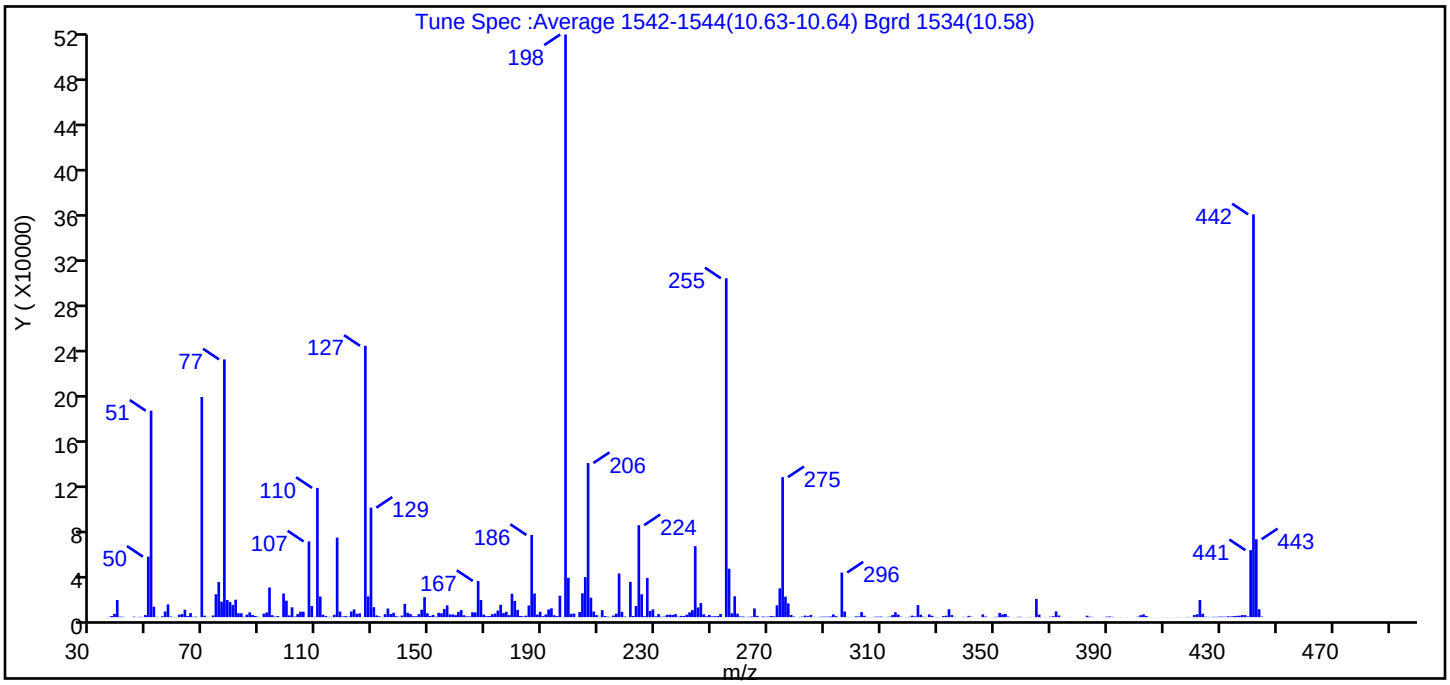
MB_DFTPP_WRK_00339 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D
Injection Date: 28-Aug-2018 15:29:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (144.7)
51	10-80% of the base peak	35.4
68	<2% of mass 69	0.0 (0.0)
69	Present	37.8
70	<2% of mass 69	0.2 (0.7)
127	10-80% of the base peak	46.6
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	24.0
365	>1% of mass 198	3.1
441	present but <24% of mass 442	11.5 (16.6)
442	base peak, or >50% of 198	69.1
443	15-24% of mass 442	13.4 (19.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 28-Aug-2018 15:29:30
Spectrum: Tune Spec :Average 1542-1544(10.63-10.64) Bgrd 1534(10.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	265	139.00	310	237.00	2703	336.00	274
37.00	1016	140.00	1365	238.00	410	337.00	42
38.00	2792	141.00	11744	239.00	1122	339.00	264
39.00	15120	142.00	3883	240.00	1065	340.00	145
40.00	489	143.00	2711	241.00	2131	341.00	1156
41.00	326	144.00	828	242.00	4213	342.00	336
42.00	23	145.00	807	243.00	6186	344.00	42
45.00	418	146.00	2639	244.00	62600	345.00	44
46.00	100	147.00	6583	245.00	8555	346.00	2439
47.00	307	148.00	17600	246.00	12393	347.00	551
48.00	197	149.00	3364	247.00	2505	348.00	79
49.00	1817	150.00	1045	248.00	799	349.00	39
50.00	53328	151.00	1975	249.00	1942	350.00	177
51.00	182080	152.00	442	250.00	715	351.00	333
52.00	9194	153.00	3856	251.00	823	352.00	3639
53.00	293	154.00	3367	252.00	923	353.00	2401
55.00	804	155.00	7194	253.00	2815	354.00	2785
56.00	4994	156.00	10414	255.00	298880	355.00	505
57.00	11237	157.00	2350	256.00	42712	356.00	43
58.00	485	158.00	2405	257.00	3408	357.00	72
59.00	187	159.00	1802	258.00	18400	358.00	143
60.00	133	160.00	4671	259.00	3015	359.00	347
61.00	2223	161.00	6268	260.00	556	360.00	179
62.00	2672	162.00	1653	261.00	529	361.00	37
63.00	6574	163.00	687	262.00	191	362.00	185
64.00	969	164.00	630	263.00	293	363.00	181
65.00	3614	165.00	4353	264.00	549	364.00	77
66.00	339	166.00	4169	265.00	7683	365.00	16132
67.00	444	167.00	31896	266.00	1134	366.00	2231
69.00	194176	168.00	15086	268.00	545	367.00	81
70.00	1284	169.00	2259	269.00	318	368.00	110
71.00	251	170.00	876	270.00	461	369.00	34
72.00	48	171.00	1005	271.00	1091	370.00	371

Report Date: 29-Aug-2018 12:54:23 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 28-Aug-2018 15:29:30
Spectrum: Tune Spec :Average 1542-1544(10.63-10.64) Bgrd 1534(10.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1450	172.00	2604	272.00	692	371.00	825
74.00	20192	173.00	3186	273.00	10429	372.00	5060
75.00	30944	174.00	5801	274.00	25392	373.00	1431
76.00	13620	175.00	10913	275.00	123472	374.00	64
77.00	227328	176.00	3616	276.00	18064	377.00	109
78.00	15198	177.00	4706	277.00	12116	381.00	37
79.00	13429	178.00	1734	278.00	1914	383.00	1280
80.00	10822	179.00	20640	279.00	571	384.00	402
81.00	15360	180.00	14339	281.00	241	385.00	216
82.00	3414	181.00	6394	282.00	506	389.00	142
83.00	3390	182.00	1080	283.00	1368	390.00	490
84.00	337	183.00	676	284.00	879	391.00	603
85.00	2189	184.00	1290	285.00	2018	392.00	309
86.00	4256	185.00	10254	286.00	199	393.00	96
87.00	1939	186.00	72496	287.00	86	395.00	123
88.00	1040	187.00	20856	288.00	261	397.00	120
89.00	355	188.00	2205	289.00	418	399.00	60
91.00	3036	189.00	4781	290.00	398	400.00	40
92.00	4138	190.00	835	291.00	400	401.00	410
93.00	26152	191.00	2374	292.00	658	402.00	1663
94.00	1670	192.00	6771	293.00	2394	403.00	2420
95.00	477	193.00	7785	294.00	868	404.00	1059
96.00	970	194.00	1657	296.00	39344	405.00	165
98.00	20840	195.00	952	297.00	4982	407.00	51
99.00	14521	196.00	18920	298.00	269	408.00	77
100.00	1546	198.00	513920	299.00	164	410.00	61
101.00	8645	199.00	34680	300.00	64	411.00	107
102.00	523	200.00	2914	301.00	691	412.00	65
103.00	2714	201.00	3148	302.00	658	414.00	98
104.00	4833	203.00	4493	303.00	4435	415.00	113
105.00	4820	204.00	21080	304.00	1220	416.00	142
107.00	66736	205.00	35328	305.00	133	417.00	43
108.00	9838	206.00	135936	306.00	34	418.00	171
109.00	241	207.00	17120	307.00	143	419.00	213

Report Date: 29-Aug-2018 12:54:23 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 28-Aug-2018 15:29:30
Spectrum: Tune Spec :Average 1542-1544(10.63-10.64) Bgrd 1534(10.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 380

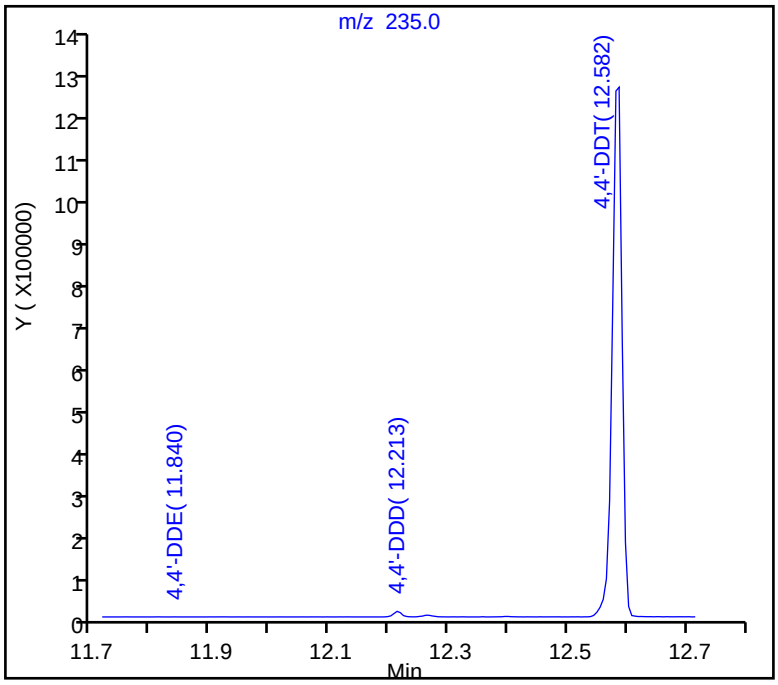
m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	113984	208.00	4949	308.00	413	420.00	47
111.00	18208	209.00	1772	309.00	418	421.00	1970
112.00	2085	210.00	264	310.00	468	422.00	2491
113.00	921	211.00	6163	311.00	86	423.00	15081
114.00	270	212.00	935	312.00	217	424.00	2988
115.00	236	213.00	479	313.00	453	425.00	357
116.00	2077	214.00	220	314.00	1889	426.00	225
117.00	70200	215.00	1370	315.00	4323	427.00	188
118.00	4899	216.00	3072	316.00	2251	428.00	319
119.00	580	217.00	38472	317.00	391	429.00	288
120.00	913	218.00	4687	318.00	43	430.00	491
121.00	461	219.00	535	319.00	131	431.00	436
122.00	4957	221.00	31096	320.00	332	432.00	352
123.00	6811	222.00	1025	321.00	1321	433.00	759
124.00	2946	223.00	9883	322.00	638	434.00	580
125.00	3318	224.00	81112	323.00	10632	435.00	917
127.00	239296	225.00	20208	324.00	2159	436.00	1144
128.00	18312	226.00	860	325.00	374	437.00	1263
129.00	96552	227.00	34576	326.00	168	438.00	1817
130.00	8771	228.00	5453	327.00	2429	439.00	1822
131.00	1541	229.00	6898	328.00	1192	440.00	605
132.00	732	230.00	693	329.00	206	441.00	59072
133.00	157	231.00	2689	330.00	155	442.00	355264
134.00	2599	232.00	409	331.00	37	443.00	68696
135.00	7596	233.00	492	332.00	938	444.00	7003
136.00	2762	234.00	2033	333.00	1240	445.00	499
137.00	3842	235.00	2215	334.00	6955	461.00	39
138.00	782	236.00	2002	335.00	1787	495.00	47

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D
Injection Date: 28-Aug-2018 15:29:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

255 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1422345
254 4,4'-DDD, Area = 12417
253 4,4'-DDE, Area = 2829

%Breakdown: 1.06%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

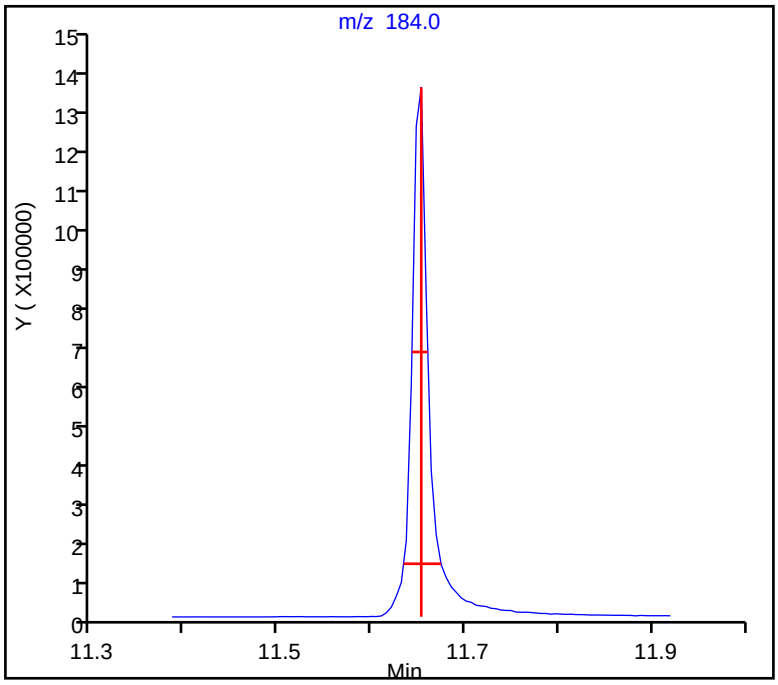
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D
Injection Date: 28-Aug-2018 15:29:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

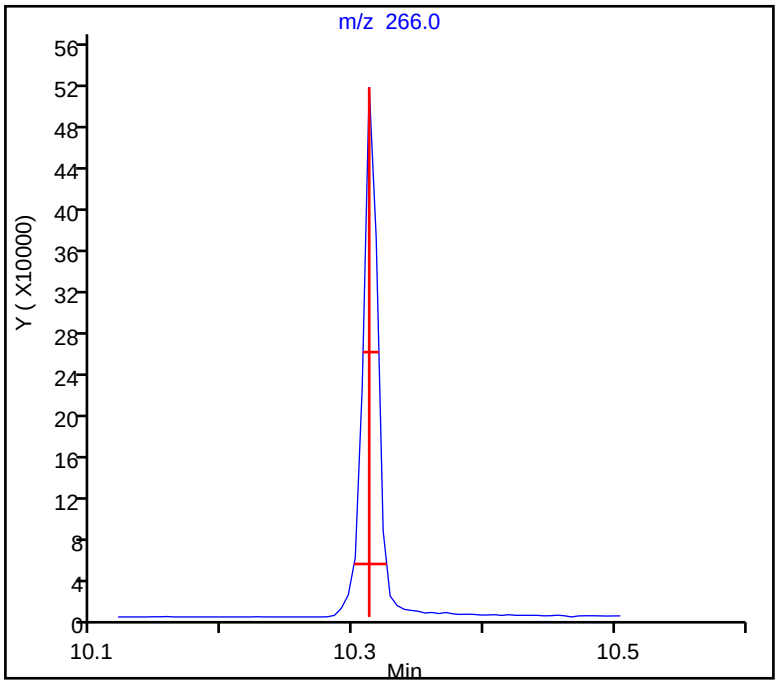
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180828-74244.b\Y019354.D
Injection Date: 28-Aug-2018 15:29:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 10-Sep-2018 15:58:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: dftpp
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:46:21 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 10-Sep-2018 16:20:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
250 Pentachlorophenol_T	266	10.280	10.280	0.000	93	496067	NR	NR	
251 DFTPP									
252 Benzidine_T	184	11.610	11.610	0.000	99	1772789	NR	NR	
253 4,4'-DDE	246	11.797	11.797	0.000	86	3570		NR	
254 4,4'-DDD	235	12.171	12.171	0.000	96	30648		NR	
255 4,4'-DDT	235	12.534	12.534	0.000	98	1768357	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

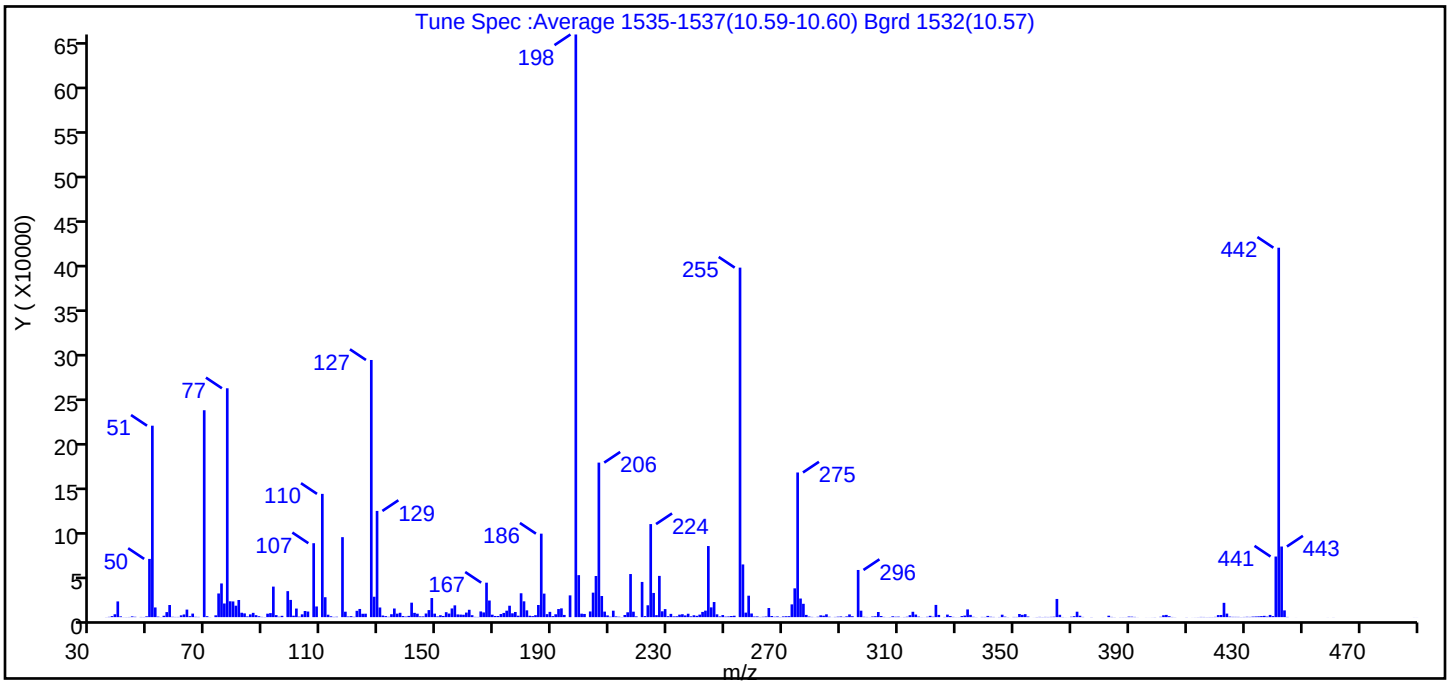
MB_DFTPP_WRK_00339 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D
Injection Date: 10-Sep-2018 15:58:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

251 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (157.7)
51	10-80% of the base peak	32.9
68	<2% of mass 69	0.0 (0.0)
69	Present	35.5
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	44.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.2
275	10-60% of the base peak	24.8
365	>1% of mass 198	3.1
441	present but <24% of mass 442	10.4 (16.4)
442	base peak, or >50% of 198	63.4
443	15-24% of mass 442	12.1 (19.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Sep-2018 15:58:30
Spectrum: Tune Spec :Average 1535-1537(10.59-10.60) Bgrd 1532(10.57)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	111	139.00	626	239.00	2109	339.00	259
36.00	327	140.00	1398	240.00	1473	340.00	217
37.00	1148	141.00	16243	241.00	2830	341.00	1391
38.00	3226	142.00	4830	242.00	5878	342.00	431
39.00	17648	143.00	3860	243.00	7307	343.00	249
40.00	865	144.00	863	244.00	79776	344.00	37
41.00	112	145.00	854	245.00	10975	345.00	189
42.00	146	146.00	4080	246.00	16960	346.00	2743
43.00	202	147.00	7913	247.00	3162	347.00	559
44.00	862	148.00	21440	248.00	800	348.00	129
45.00	416	149.00	3929	249.00	2343	350.00	239
47.00	221	150.00	827	250.00	574	351.00	244
48.00	182	151.00	2173	251.00	799	352.00	3536
49.00	887	152.00	1341	252.00	1287	353.00	2594
50.00	65336	153.00	5557	253.00	1577	354.00	3333
51.00	214784	154.00	4021	255.00	392128	355.00	682
52.00	10876	155.00	9756	256.00	59128	357.00	44
53.00	604	156.00	13218	257.00	5069	358.00	169
54.00	123	157.00	3058	258.00	24064	359.00	288
55.00	1562	158.00	2859	259.00	4099	360.00	167
56.00	5649	159.00	2684	260.00	677	361.00	271
57.00	13610	160.00	5115	261.00	796	362.00	219
58.00	396	161.00	8264	262.00	215	363.00	337
59.00	242	162.00	2174	263.00	431	364.00	484
60.00	253	163.00	297	264.00	714	365.00	20408
61.00	2034	164.00	230	265.00	10232	366.00	2627
62.00	3001	165.00	6401	266.00	1280	367.00	185
63.00	8480	166.00	5286	267.00	438	368.00	68
64.00	1052	167.00	38672	268.00	796	369.00	37
65.00	3996	168.00	18656	269.00	180	370.00	475
66.00	378	169.00	2749	270.00	812	371.00	1042
67.00	279	170.00	1318	271.00	998	372.00	6100
69.00	232128	171.00	1290	272.00	1087	373.00	1593

Report Date: 11-Sep-2018 11:46:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Sep-2018 15:58:30
Spectrum: Tune Spec :Average 1535-1537(10.59-10.60) Bgrd 1532(10.57)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	1069	172.00	3496	273.00	14333	374.00	243
71.00	102	173.00	4726	274.00	32304	377.00	131
73.00	2026	174.00	7244	275.00	162304	381.00	44
74.00	26560	175.00	12812	276.00	20880	383.00	1583
75.00	37808	176.00	4312	277.00	14968	384.00	266
76.00	15312	177.00	5790	278.00	2520	385.00	117
77.00	256768	178.00	1630	279.00	641	387.00	107
78.00	17784	179.00	26792	280.00	274	388.00	111
79.00	17616	180.00	17744	281.00	71	389.00	104
80.00	12839	181.00	7642	282.00	420	390.00	637
81.00	19240	182.00	1581	283.00	2053	391.00	532
82.00	4931	183.00	1169	284.00	1612	392.00	274
83.00	4211	184.00	2177	285.00	3164	393.00	68
84.00	818	185.00	13619	286.00	443	396.00	49
85.00	3121	186.00	93672	287.00	45	397.00	33
86.00	4821	187.00	26400	288.00	259	398.00	57
87.00	2197	188.00	3370	289.00	532	399.00	124
88.00	1013	189.00	5927	290.00	777	401.00	383
89.00	298	190.00	1159	291.00	243	402.00	2122
90.00	157	191.00	3227	292.00	856	403.00	2507
91.00	3887	192.00	9083	293.00	3060	404.00	1040
92.00	4507	193.00	9842	294.00	1027	405.00	216
93.00	34264	194.00	2484	296.00	52920	406.00	109
94.00	2260	196.00	24432	297.00	7246	410.00	115
95.00	475	198.00	653696	298.00	384	412.00	40
96.00	1482	199.00	47112	299.00	231	413.00	80
98.00	29176	200.00	3895	300.00	109	414.00	110
99.00	19328	201.00	3578	301.00	706	415.00	248
100.00	1628	203.00	6385	302.00	990	416.00	213
101.00	9635	204.00	27480	303.00	5768	417.00	136
102.00	539	205.00	46160	304.00	1257	418.00	176
103.00	3154	206.00	173376	305.00	263	419.00	167
104.00	6888	207.00	23704	306.00	84	420.00	315
105.00	6298	208.00	6195	307.00	165	421.00	2315

Report Date: 11-Sep-2018 11:46:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D\Y-LVI-8270.rslt\spectra.d
Injection Date: 10-Sep-2018 15:58:30
Spectrum: Tune Spec :Average 1535-1537(10.59-10.60) Bgrd 1532(10.57)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 384

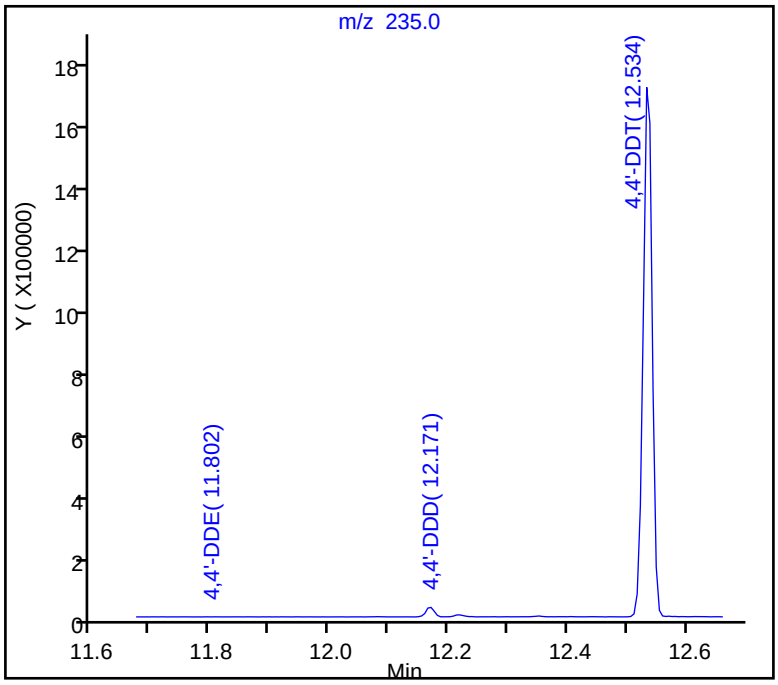
m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	82944	209.00	1958	308.00	968	422.00	2415
108.00	11981	210.00	458	309.00	469	423.00	16056
110.00	138304	211.00	7238	310.00	594	424.00	3985
111.00	22352	212.00	800	311.00	69	425.00	593
112.00	2732	213.00	453	312.00	195	426.00	341
113.00	943	214.00	158	313.00	439	427.00	325
114.00	274	215.00	2394	314.00	2211	428.00	293
115.00	440	216.00	5443	315.00	6030	429.00	141
117.00	89736	217.00	48368	316.00	2919	430.00	240
118.00	6107	218.00	6130	317.00	620	431.00	406
119.00	724	219.00	814	318.00	115	432.00	285
120.00	1106	221.00	39496	319.00	67	433.00	618
121.00	332	222.00	1211	320.00	385	434.00	746
122.00	7097	223.00	13314	321.00	1494	435.00	919
123.00	9178	224.00	104408	322.00	458	436.00	1172
124.00	3794	225.00	27144	323.00	13722	437.00	1470
125.00	3853	226.00	2225	324.00	2497	438.00	652
127.00	288512	227.00	46280	326.00	225	439.00	2484
128.00	22888	228.00	6544	327.00	2849	440.00	1164
129.00	119160	229.00	9030	328.00	1252	441.00	68000
130.00	10830	230.00	1092	329.00	299	442.00	414464
131.00	1792	231.00	3671	330.00	107	443.00	79240
132.00	1148	232.00	827	331.00	106	444.00	7570
133.00	406	233.00	986	332.00	1182	445.00	241
134.00	3287	234.00	2795	333.00	1757	448.00	33
135.00	9699	235.00	3276	334.00	8673	459.00	43
136.00	3907	236.00	1905	335.00	2539	461.00	63
137.00	4888	237.00	3814	336.00	368	489.00	44
138.00	1220	238.00	917	337.00	115	490.00	38

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D
Injection Date: 10-Sep-2018 15:58:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

255 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

255 4,4'-DDT, Area = 1768357
254 4,4'-DDD, Area = 30648
253 4,4'-DDE, Area = 3570

%Breakdown: 1.90%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

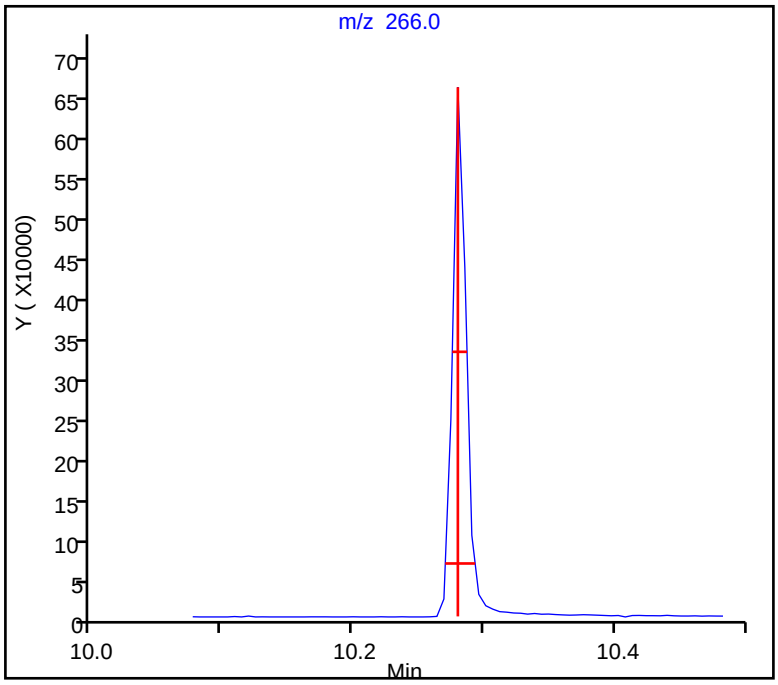
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D
Injection Date: 10-Sep-2018 15:58:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

250 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



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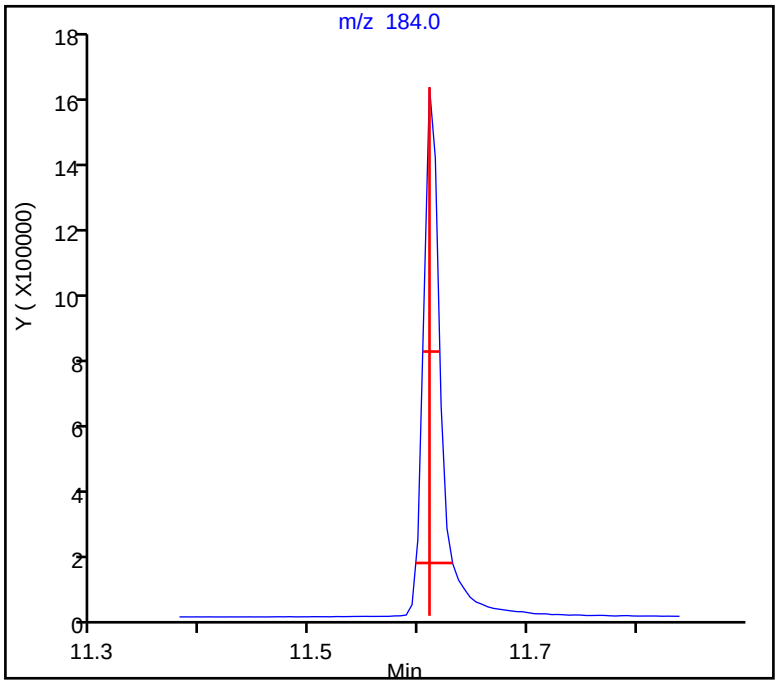
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019611.D
Injection Date: 10-Sep-2018 15:58:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: BS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

252 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-433136/1-A

Matrix: Water | Lab File ID: Y019616.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 09/06/2018 14:08

Sample wt/vol: 250(mL) | Date Analyzed: 09/10/2018 18:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 433584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
120-12-7	Anthracene	ND		5.0	0.28
56-55-3	Benzo[a]anthracene	ND		5.0	0.36
50-32-8	Benzo[a]pyrene	ND		5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND		5.0	0.34
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73
218-01-9	Chrysene	ND		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	0.47
91-20-3	Naphthalene	ND		5.0	0.76
85-01-8	Phenanthrene	ND		5.0	0.44
129-00-0	Pyrene	ND		5.0	0.34
91-57-6	2-Methylnaphthalene	ND		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	102		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	86		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	113		59-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D
Lims ID: MB 480-433136/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Sep-2018 18:22:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074536-007
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:44:15 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 11-Sep-2018 11:12:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.614	6.610	0.004	93	351263	4.00	4.00	
* 2 Naphthalene-d8	136	7.698	7.700	-0.002	99	1201652	4.00	4.00	
* 3 Acenaphthene-d10	164	9.188	9.190	-0.002	96	697784	4.00	4.00	
* 4 Phenanthrene-d10	188	10.448	10.451	-0.003	97	1374214	4.00	4.00	
* 5 Chrysene-d12	240	13.220	13.223	-0.003	99	1446134	4.00	4.00	
* 6 Perylene-d12	264	15.485	15.487	-0.002	98	1429574	4.00	4.00	
$ 7 2-Fluorophenol	112	5.487	5.460	0.025	90	595220	8.00	5.80	
$ 8 Phenol-d5	99	6.272	6.266	0.003	93	523186	8.00	4.11	
$ 9 Nitrobenzene-d5	82	7.078	7.083	-0.002	87	822196	8.00	6.87	
$ 10 2-Fluorobiphenyl	172	8.590	8.589	-0.002	99	2385478	8.00	8.20	
$ 11 2,4,6-Tribromophenol	330	9.856	9.850	0.004	92	275297	8.00	7.89	
$ 12 p-Terphenyl-d14	244	11.864	11.864	-0.002	99	3063874	8.00	9.08	
237 Lidocaine	1		0.195					ND	
202 o-Anisidine	1		0.195					ND	
13 1,4-Dioxane	88		3.651					ND	
14 N-Nitrosodimethylamine	42		4.068					ND	
15 Pyridine	52		4.105					ND	
18 1-Methylcyclopentanol	71		4.728					ND	
19 2-Picoline	93		4.920					ND	
20 N-Nitrosomethylethylamine	88		5.032					ND	
21 2-Chlorobenzotrifluoride	180		5.267					ND	
24 Acrylamide	71		5.299					ND	
22 Methyl methanesulfonate	80		5.310					ND	
23 4-Chlorobenzotrifluoride	180	5.337	5.334	0.000	85	1739		0.0184	
25 n,n'-Dimethylacetamide	87		5.406					ND	
196 CBF-400	214		5.530					ND	
26 4-Chloropyridine	78		5.598					ND	
27 3-Chloropyridine	78		5.662					ND	
28 N-Nitrosodiethylamine	102		5.679					ND	
29 3-Chlorobenzotrifluoride	180		5.737					ND	
30 Ethyl methanesulfonate	79		5.924					ND	
31 2-Chloropyridine	78		6.020					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
257 CBF-500	161		6.089					ND	
32 2-Chlorotoluene	91		6.181					ND	
33 3-Chlorotoluene	91		6.197					ND	
34 4-Chlorotoluene	91		6.229					ND	
35 Benzaldehyde	77		6.237					ND	
37 Phenol	94		6.279					ND	
36 Aniline	93		6.327					ND	
39 Bis(2-chloroethyl)ether	93		6.359					ND	
38 Pentachloroethane	167		6.373					ND	
40 2-Chlorophenol	128		6.434					ND	
41 n-Decane	57	6.443	6.437	0.003	92	7671		0.0825	
42 p-Fluoroaniline	111		6.501					ND	
43 1,3-Dichlorobenzene	146		6.568					ND	
44 1,4-Dichlorobenzene	146		6.626					ND	
45 Benzyl alcohol	108		6.712					ND	U
46 1,2-Dichlorobenzene	146		6.760					ND	
48 2-Methylphenol	108		6.792					ND	
49 2,2'-oxybis[1-chloropropan	45		6.813					ND	
47 Indene	115	6.838	6.837	-0.002	89	4029		0.0207	
50 N-Nitrosopyrrolidine	100		6.918					ND	
57 4-Methylphenol	108		6.920					ND	
53 N-Nitrosodi-n-propylamine	70		6.926					ND	
52 Acetophenone	105	6.939	6.939	-0.003	96	5223		0.0392	
54 N-Nitrosomorpholine	56		6.944					ND	
51 N-Methylaniline	106		6.950					ND	
56 2-Toluidine	106		6.976					ND	
55 4-Methylbenzenamine	106		6.987					ND	
58 Hexachloroethane	117		7.054					ND	
59 Nitrobenzene	77		7.096					ND	
60 2,6-Dichloropyridine	112		7.163					ND	
61 N-Nitrosopiperidine	114		7.217					ND	
282 2,4-Dichlorotoluene	125		7.282					ND	
62 Isophorone	82		7.289					ND	U
63 2-Chloroaniline	127		7.345					ND	
287 1,3,5-Trichlorobenzene	180		7.363					ND	
64 2-Nitrophenol	139		7.364					ND	
66 2,4-Dimethylphenol	107		7.369					ND	
65 Benzeneacetonitrile	117		7.377					ND	
68 o,o',o''-Triethylphosphoro	198		7.409					ND	
67 Tetraethyl lead	237		7.435					ND	
69 Bis(2-chloroethoxy)methane	93		7.444					ND	
70 Benzoic acid	105		7.460					ND	U
71 alpha,alpha-Dimethyl phene	58		7.548					ND	U
72 2,4-Dichlorophenol	162		7.566					ND	
286 4-Chlorophenol	128		7.619					ND	
73 1,2,4-Trichlorobenzene	180		7.641					ND	
75 Alpha-Terpineol	59		7.702					ND	
74 Naphthalene	128	7.719	7.719	-0.002	93	13158		0.0427	
76 4-Chloroaniline	127		7.748					ND	
77 2,6-Dichlorophenol	162		7.759					ND	
78 Hexachloropropene	213		7.794					ND	
79 Hexachlorobutadiene	225		7.812					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
80 Benzeneacetic acid (TIC)	91		7.917					ND	
82 N-Nitrosodi-n-butylamine	84		7.997					ND	
81 Quinoline	129		7.997					ND	
84 Caprolactam	113		8.036					ND	
83 p-Phenylene diamine	108		8.039					ND	
85 4-Chloro-3-methylphenol	107		8.127					ND	
86 Safrole, Total	162		8.200					ND	
281 2,4,5-Trichlorotoluene	159		8.249					ND	
198 NVF-400	82	8.280	8.270	0.006	0	73		0.000243	
87 2-Methylnaphthalene	142	8.296	8.295	-0.002	89	3104		0.0148	
88 Phthalic anhydride	104		8.338					ND	
89 1-Methylnaphthalene	142	8.387	8.381	0.003	90	2192		0.0111	
90 Hexachlorocyclopentadiene	237		8.432					ND	
91 1,2,4,5-Tetrachlorobenzene	216		8.442					ND	
275 Isosafrole Peak 1	162		8.445					ND	
258 CU-600	58	8.419	8.465	-0.049	0	57		0.000190	
93 2,4,6-Trichlorophenol	196		8.528					ND	
284 2,3-Dichlorobenzenamine	161	8.590	8.538	0.049	48	239		NC	
94 2,4,5-Trichlorophenol	196		8.565					ND	
277 Isosafrole Peak 2	162		8.632					ND	U
95 Isosafrole	162		8.632					ND	U
285 1,2,3,4 -Tetrachlorobenzen	216		8.671					ND	
96 1,1'-Biphenyl	154		8.683					ND	U
97 2-Chloronaphthalene	162		8.715					ND	
99 1-Chloronaphthalene	162		8.739					ND	U
100 2-Nitroaniline	65		8.784					ND	
102 1,4-Naphthoquinone	158		8.851					ND	
103 Dicyclohexylamine	138		8.867					ND	
104 1,4-Dinitrobenzene	168		8.878					ND	
105 Dimethyl phthalate	163		8.902					ND	
106 1,3-Dinitrobenzene	168		8.950					ND	
107 2,6-Dinitrotoluene	165		8.966					ND	
108 Acenaphthylene	152		9.073					ND	
109 3-Nitroaniline	138		9.126					ND	
111 2,4-Dinitrophenol	184		9.206					ND	
110 Acenaphthene	153		9.217					ND	U
112 4-Nitrophenol	109		9.238					ND	
114 2,4-Dinitrotoluene	165		9.313					ND	U
113 Pentachlorobenzene	250		9.332					ND	
115 Dibenzofuran	168	9.359	9.358	-0.002	91	1931		0.006215	
117 2,3,5,6-Tetrachlorophenol	232		9.417					ND	
116 1-Naphthylamine	143		9.417					ND	
118 2,3,4,6-Tetrachlorophenol	232		9.457					ND	
121 Hexadecane	57		9.479					ND	U
119 2-Naphthylamine	143		9.487					ND	
120 Diethyl phthalate	149		9.489					ND	
122 Thionazin	97		9.562					ND	
123 4-Chlorophenyl phenyl ethe	204		9.623					ND	
125 N-Nitro-o-toluidine	152		9.636					ND	
126 4-Nitroaniline	138		9.644					ND	
128 Tributyl phosphate	99		9.647					ND	
124 Fluorene	166	9.647	9.647	-0.002	83	1181		0.004780	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
127 4,6-Dinitro-2-methylphenol	198		9.666					ND	
130 N-Nitrosodiphenylamine	169		9.714					ND	
129 Diphenylamine	169		9.714					ND	
131 1,2-Diphenylhydrazine	77		9.756					ND	
132 Azobenzene	77		9.756					ND	
134 Sulfotepp	322		9.807					ND	
135 1,3,5-Trinitrobenzene	213		9.909					ND	
278 Diallate Peak 1	86		9.946					ND	
138 Phenacetin	108		9.946					ND	
136 Diallate	86		9.946					ND	
137 Phorate	75		9.951					ND	
280 Diallate Peak 2	86		10.026					ND	
139 4-Bromophenyl phenyl ether	248		10.039					ND	
141 Dimethoate	87		10.101					ND	
142 Simazine	201		10.122					ND	
140 Hexachlorobenzene	284		10.130					ND	
143 Atrazine	200		10.136					ND	
98 n,n'-Dimethylaniline	120	10.192	10.238	-0.049	1	123		NC	
148 n-Octadecane	57	10.251	10.250	-0.002	94	2982		0.0267	
144 4-Aminobiphenyl	169		10.261					ND	U
147 Pronamide	173		10.277					ND	
145 Pentachlorophenol	266		10.280					ND	
146 Pentachloronitrobenzene	237		10.293					ND	
149 Disulfoton	88		10.389					ND	
150 Dinoseb	211		10.400					ND	
151 Phenanthrene	178	10.470	10.469	-0.002	92	8286		0.0220	
152 Anthracene	178		10.515					ND	U
153 Carbazole	167		10.632					ND	U
155 Methyl parathion	109		10.715					ND	
154 Alachlor	160		10.720					ND	
157 Di-n-butyl phthalate	149	10.854	10.854	-0.003	99	18587		0.0883	
163 Octachlorostyrene	308		10.893					ND	
288 2-Methylanthracene	192	10.892	10.913	-0.023	1	499		NC	
158 Ethyl Parathion	97		11.036					ND	
159 4-Nitroquinoline-1-oxide	190		11.116					ND	
161 Methapyrilene	58		11.143					ND	
160 Anthraquinone	180		11.158					ND	
162 Isodrin	193		11.388					ND	
164 Fluoranthene	202		11.524					ND	U
165 1-Hydroxyanthraquinone	224		11.564					ND	
166 Benzidine	184		11.610					ND	
167 Pyrene	202		11.765					ND	U
276 Aramite Peak 1	185		11.789					ND	U
168 Aramite, Total	185		11.864					ND	
279 Aramite Peak 2	185		11.864					ND	U
170 p-Dimethylamino azobenzene	120		12.008					ND	
171 Chlorobenzilate	251		12.040					ND	
169 1,4-Dihydroxyanthraquinone	240		12.050					ND	
172 Famphur	218		12.338					ND	
175 9-Octadecenamide	59		12.365					ND	
174 Butyl benzyl phthalate	149		12.368					ND	
173 3,3'-Dimethylbenzidine	212		12.392					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
176 Kepone	272		12.552					ND	
177 2-Acetylaminofluorene	181		12.723					ND	
181 Bis(2-ethylhexyl) phthalat	149	13.092	13.086	0.003	93	15615		0.1674	
178 4,4'-Methylene bis(2-chlor	231		13.113					ND	U
179 3,3'-Dichlorobenzidine	252		13.127					ND	
180 Benzo[a]anthracene	228	13.220	13.205	0.013	51	4829		0.0107	
182 Chrysene	228		13.260					ND	U
183 6-Methylchrysene	242		13.920					ND	U
184 Di-n-octyl phthalate	149		14.067					ND	
185 7,12-Dimethylbenz(a)anthra	256		14.828					ND	
186 Benzo[b]fluoranthene	252		14.857					ND	
187 Benzo[k]fluoranthene	252		14.900					ND	
192 Hexachlorophene	196		15.186					ND	
283 Benzo[e]pyrene	252	15.250	15.250	-0.003	1	193		NC	
189 Benzo[a]pyrene	252		15.396					ND	
190 3-Methylcholanthrene	268		15.949					ND	
191 Dibenz[a,h]acridine	279		16.911					ND	U
193 Indeno[1,2,3-cd]pyrene	276		17.389					ND	
194 Dibenz(a,h)anthracene	278		17.399					ND	
195 Benzo[g,h,i]perylene	276		17.950					ND	
199 CAG-800	149	19.678	19.667	0.003	0	424		0.001411	
256 CN-500	112		19.994					ND	
197 Dibenzo[a,e]pyrene	302		21.194					ND	
301 3-Amino-4-Chlorobenzotrifl	1		0.000					ND	
300 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
296 1,2-dichloro-4-(trifluorom	1		0.000					ND	
302 1-Bromo-2-chloroethane TIC	1		0.000					ND	
290 1,3-Dibromobenzene TIC	1		0.000					ND	
291 1,4-Dibromobenzene TIC	1		0.000					ND	
297 Fluorobenzene TIC	1		0.000					ND	
295 4-Bromofluorobenzene TIC	1		0.000					ND	
294 3'-Bromoacetophenone TIC	1		0.000					ND	
293 3-Nitro-4-Chlorobenzotrifl	1		0.000					ND	
292 Ethylene Dibromide TIC	1		0.000					ND	
298 2-Bromopyridine TIC	1		0.000					ND	
299 1-Bromo-3-fluorobenzene TI	1		0.000					ND	
242 1,3-phenylenediamine TIC	1		0.195					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.195					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
216 5-Methyl-o-Anisidine TIC	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
222 2-Chlorobenzotrifluoride T	1		0.195					ND	
241 5-Methyl-o-Anisidine	1		0.195					ND	
205 Phenylmercaptan	110		0.195					ND	
244 Pendimethalin	1		0.195					ND	
209 2,4-Dichlorotoluene TIC	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4-Chlorobenzotrifluoride T	1		0.195					ND	
213 4,4'-Methylene bis(2-chlor	1		0.195					ND	
206 2,4-Toluene diamine	1		0.195					ND	
218 3-Chlorobenzotrifluoride T	1		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
243 2,4-Xylidine TIC	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
214 1,2,3-Trimethylbenzene	105		0.195					ND	
204 2,6-Dichlorotoluene TIC	1		0.195					ND	
229 o-Anisidine TIC	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
254 4,4'-DDD	235		12.171					ND	
S 261 Total Cresols	1		0.195					ND	
S 259 Chlorobenzotrifluoride N.O	1				0			0.0184	
S 264 EPH Adjustment 1	1		0.195					ND	
S 260 Chlorotoluene N.O.S	1		0.195					ND	
S 262 3 & 4 Methylphenol	108		0.195					ND	
S 263 3-Methylphenol	1		0.195					ND	
T 274 2-Aminopyridine TIC	99	5.187	5.556	-0.371	34	15480		0.1763	
T 231 1-Methylnaphthalene (TIC)	142	8.387	8.502	-0.118	81	2192		0.007297	
T 156 2,3,7,8-TCDD	322		12.736					ND	
T 289 2,3,7,8-TCDD TIC	322		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00152 Amount Added: 20.00 Units: uL Run Reagent

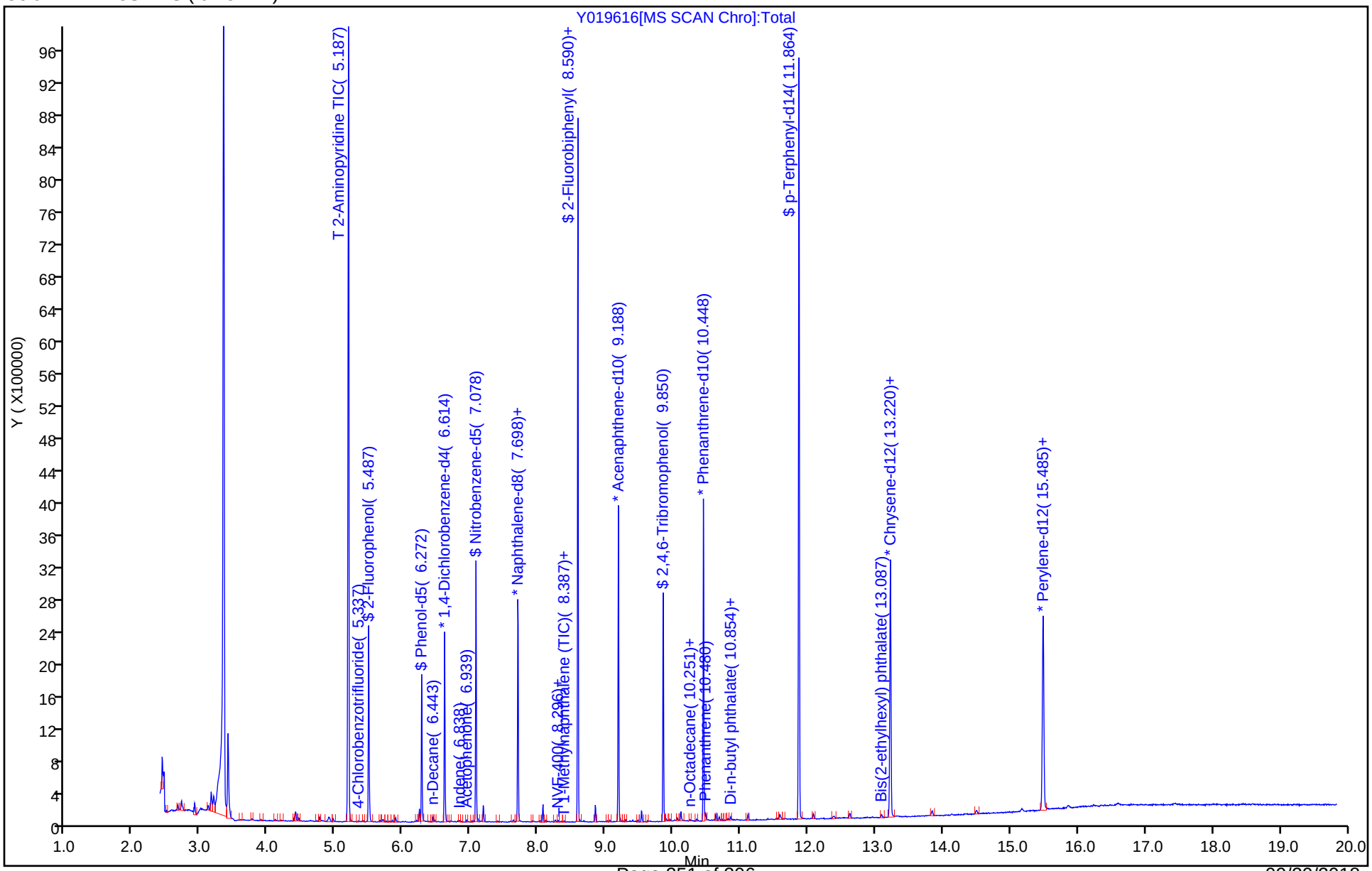
Report Date: 11-Sep-2018 11:44:31 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D

Injection Date:	10-Sep-2018 18:22:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	MB 480-433136/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



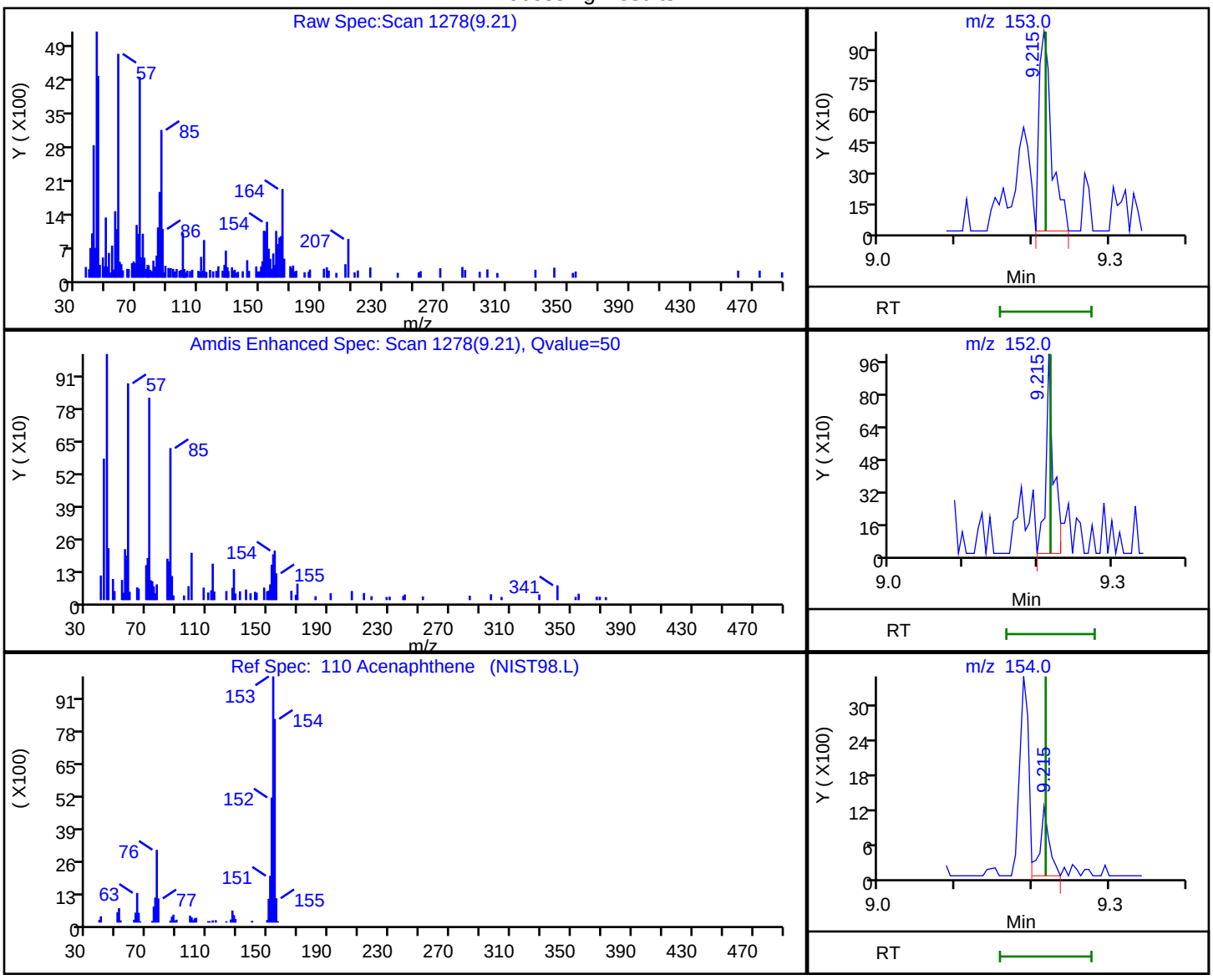
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D				
Injection Date:	10-Sep-2018 18:22:30	Instrument ID:	HP5973Y		
Lims ID:	MB 480-433136/1-A				
Client ID:					
Operator ID:	BS	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

110 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
9.21	153.00	1110	0.004871
9.21	152.00	703	
9.21	154.00	1033	

Reviewer: schickr, 11-Sep-2018 11:11:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

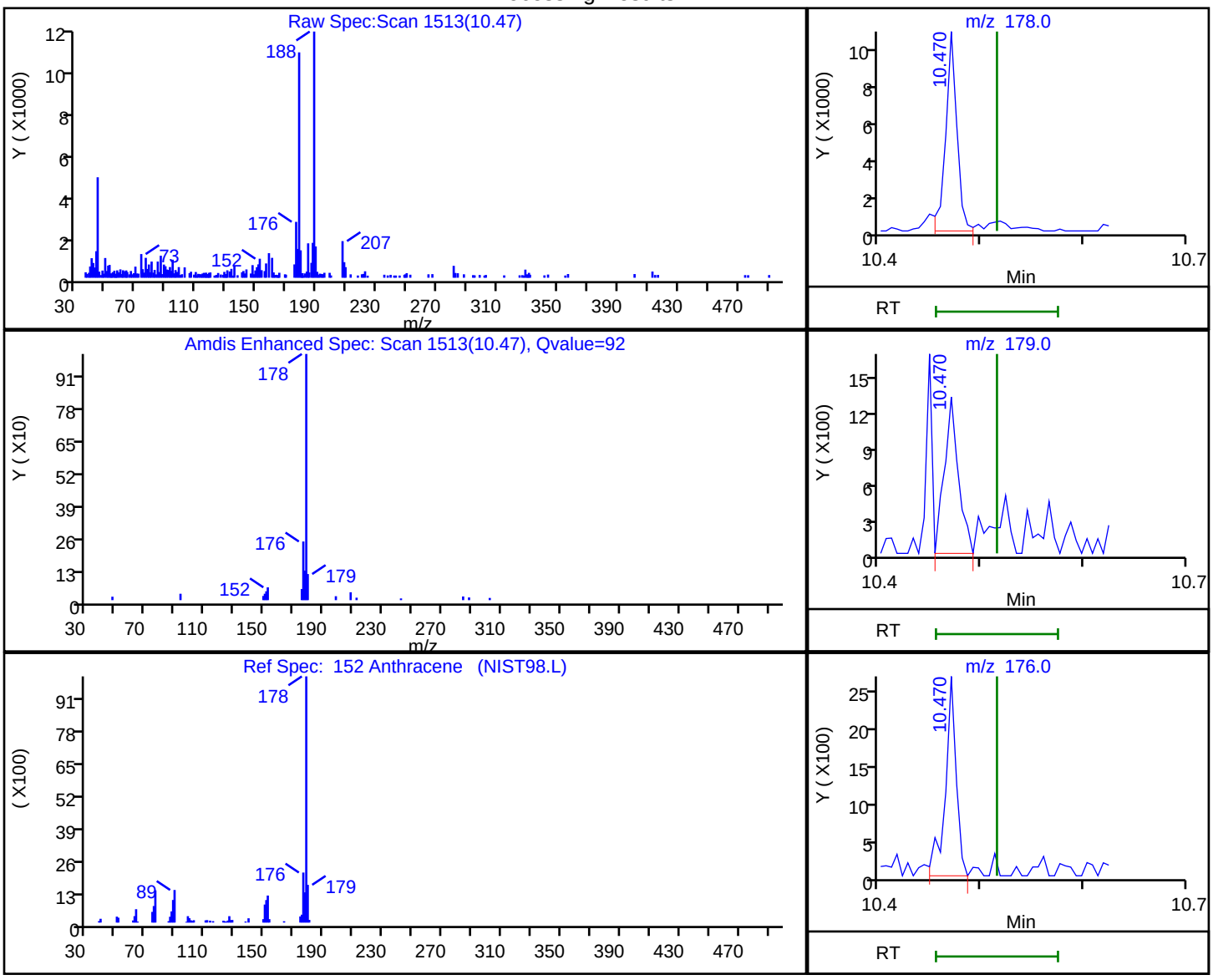
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D
Injection Date: 10-Sep-2018 18:22:30 Instrument ID: HP5973Y
Lims ID: MB 480-433136/1-A
Client ID:
Operator ID: BS ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
10.47	178.00	8286	0.022358
10.47	179.00	1268	
10.47	176.00	2000	

Reviewer: schickr, 11-Sep-2018 11:11:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

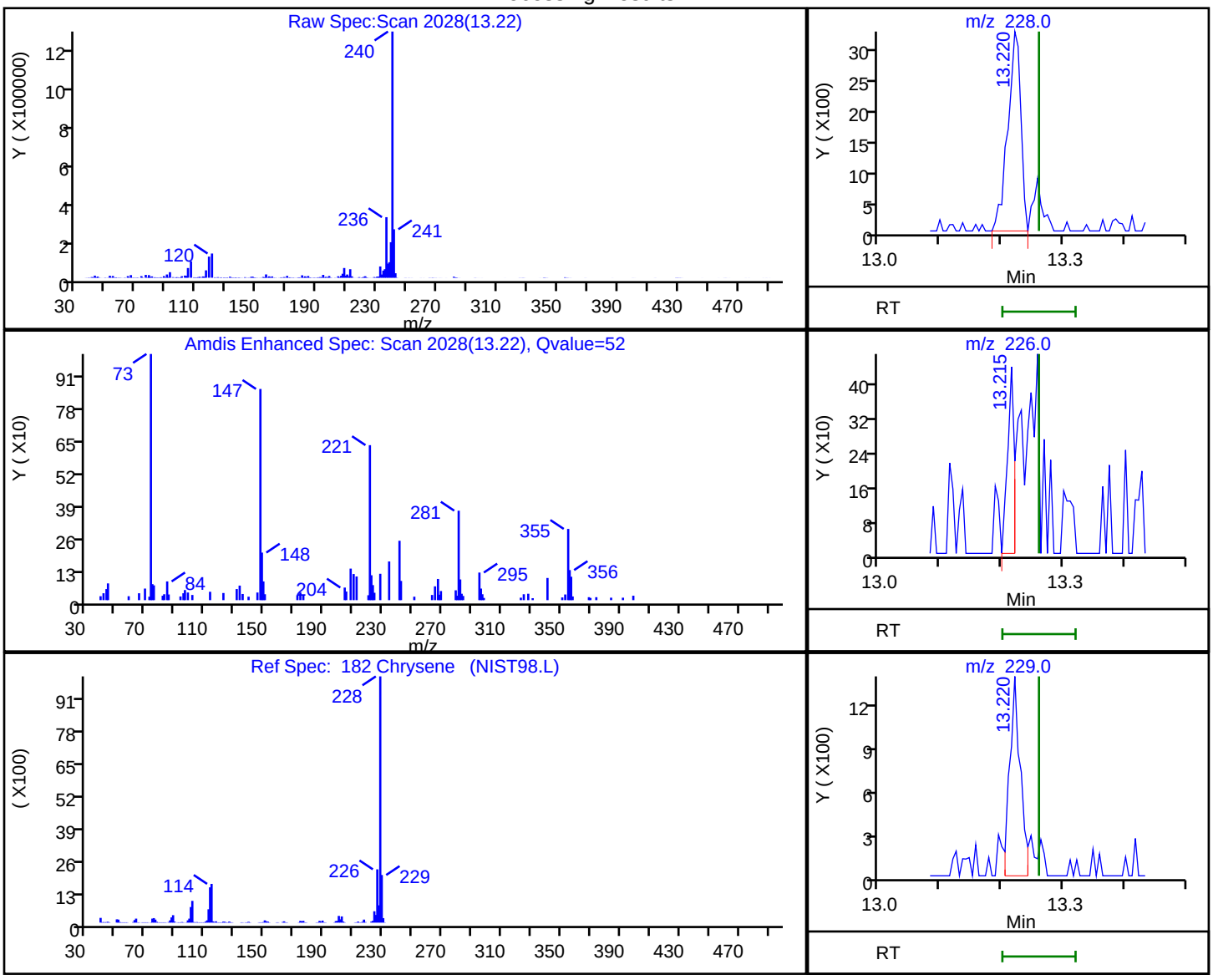
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D
Injection Date: 10-Sep-2018 18:22:30 Instrument ID: HP5973Y
Lims ID: MB 480-433136/1-A
Client ID:
Operator ID: BS ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

182 Chrysene, CAS: 218-01-9

Processing Results



RT	Mass	Response	Amount
13.22	228.00	4829	0.011532
13.22	226.00	331	
13.22	229.00	1617	

Reviewer: schickr, 11-Sep-2018 11:12:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

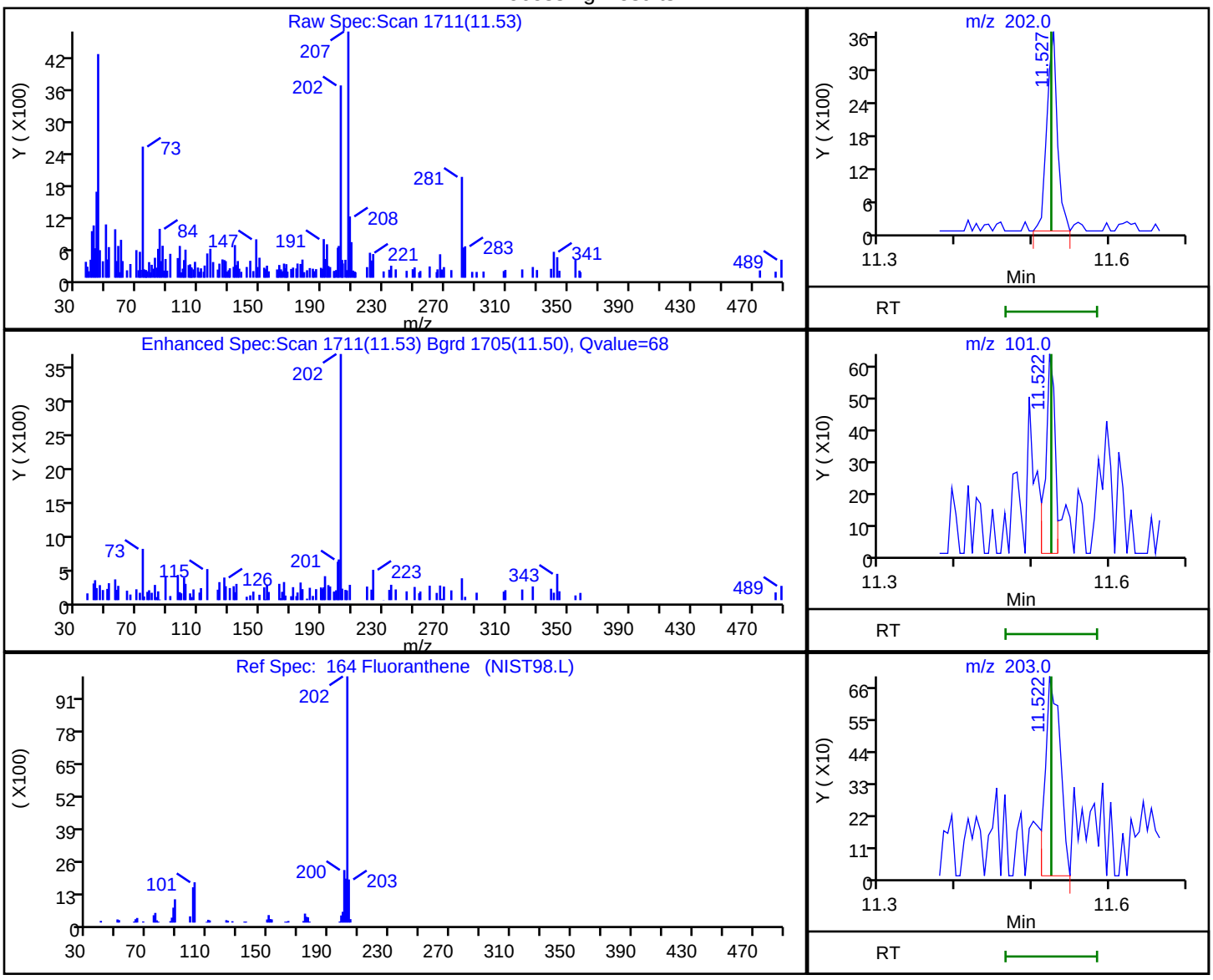
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D				
Injection Date:	10-Sep-2018 18:22:30	Instrument ID:	HP5973Y		
Lims ID:	MB 480-433136/1-A				
Client ID:					
Operator ID:	BS	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

164 Fluoranthene, CAS: 206-44-0

Processing Results



RT	Mass	Response	Amount
11.53	202.00	3433	0.008320
11.52	101.00	531	
11.52	203.00	928	

Reviewer: schickr, 11-Sep-2018 11:12:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

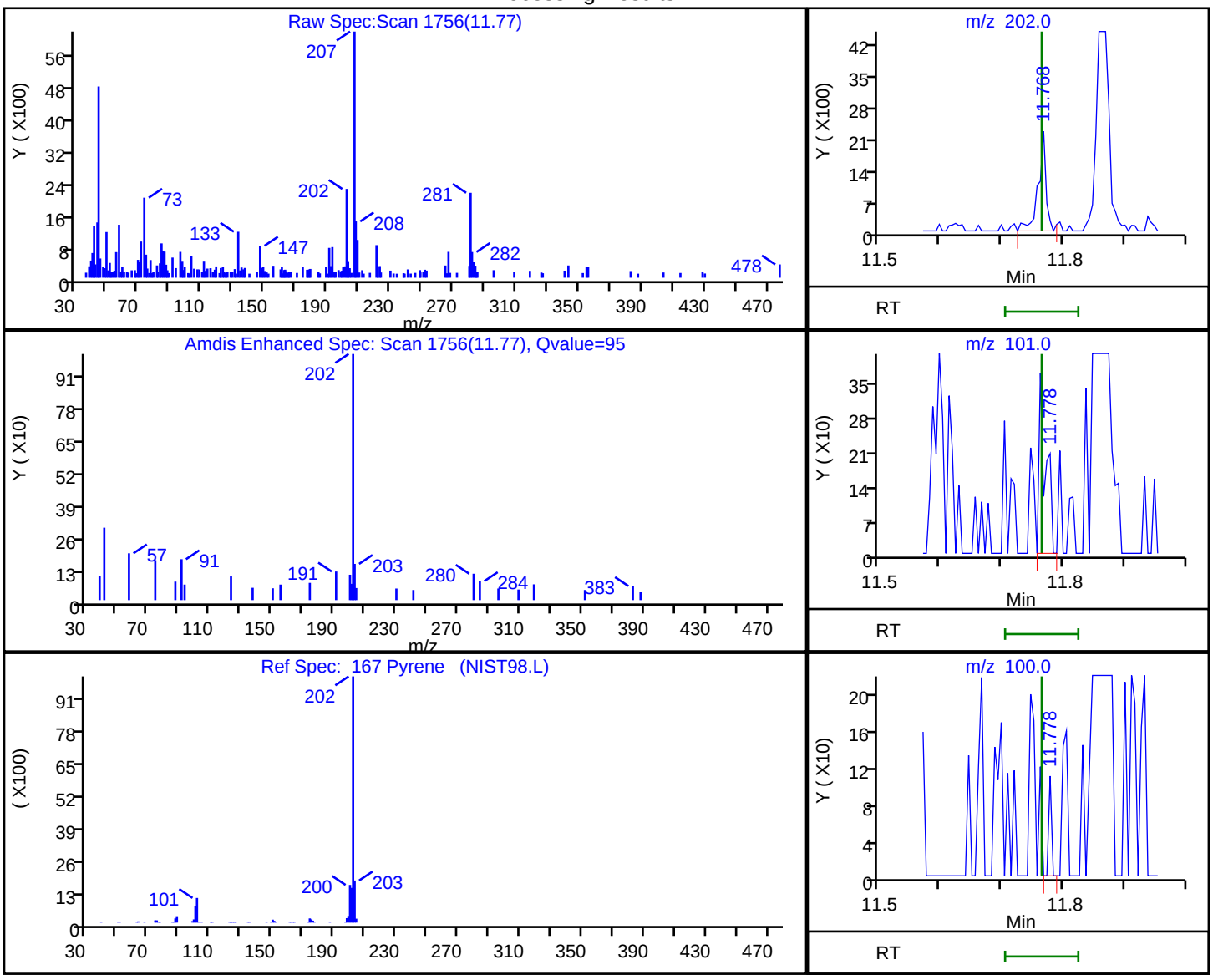
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019616.D				
Injection Date:	10-Sep-2018 18:22:30	Instrument ID:	HP5973Y		
Lims ID:	MB 480-433136/1-A				
Client ID:					
Operator ID:	BS	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

167 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.77	202.00	2002	0.004396
11.78	101.00	280	
11.78	100.00	34	

Reviewer: schickr, 11-Sep-2018 11:12:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-433136/2-A

Matrix: Water | Lab File ID: Y019617.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 09/06/2018 14:08

Sample wt/vol: 250(mL) | Date Analyzed: 09/10/2018 18:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 433584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	32.9		5.0	0.41
208-96-8	Acenaphthylene	33.0		5.0	0.38
120-12-7	Anthracene	35.3		5.0	0.28
56-55-3	Benzo[a]anthracene	35.3		5.0	0.36
50-32-8	Benzo[a]pyrene	35.1		5.0	0.47
205-99-2	Benzo[b]fluoranthene	36.2		5.0	0.34
191-24-2	Benzo[g,h,i]perylene	37.6		5.0	0.35
207-08-9	Benzo[k]fluoranthene	35.2		5.0	0.73
218-01-9	Chrysene	35.6		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	37.7		5.0	0.42
206-44-0	Fluoranthene	38.0		5.0	0.40
86-73-7	Fluorene	34.7		5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	36.8		5.0	0.47
91-20-3	Naphthalene	30.7		5.0	0.76
85-01-8	Phenanthrene	34.3		5.0	0.44
129-00-0	Pyrene	34.7		5.0	0.34
91-57-6	2-Methylnaphthalene	32.3		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	99		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	104		59-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019617.D
Lims ID: LCS 480-433136/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Sep-2018 18:51:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074536-008
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:44:15 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 11-Sep-2018 11:13:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.615	6.610	0.005	92	373626	4.00	4.00	a
* 2 Naphthalene-d8	136	7.700	7.700	0.000	99	1314098	4.00	4.00	
* 3 Acenaphthene-d10	164	9.190	9.190	0.000	95	757008	4.00	4.00	
* 4 Phenanthrene-d10	188	10.450	10.451	-0.001	96	1495380	4.00	4.00	
* 5 Chrysene-d12	240	13.228	13.223	0.005	99	1586809	4.00	4.00	
* 6 Perylene-d12	264	15.487	15.487	0.000	99	1538321	4.00	4.00	
$ 7 2-Fluorophenol	112	5.494	5.460	0.032	90	648312	8.00	5.94	
$ 8 Phenol-d5	99	6.273	6.266	0.004	91	623637	8.00	4.61	
$ 9 Nitrobenzene-d5	82	7.080	7.083	0.000	86	880718	8.00	6.73	
$ 10 2-Fluorobiphenyl	172	8.586	8.589	-0.006	99	2489279	8.00	7.89	
$ 11 2,4,6-Tribromophenol	330	9.857	9.850	0.005	92	319344	8.00	8.41	
$ 12 p-Terphenyl-d14	244	11.866	11.864	0.000	99	3080815	8.00	8.32	
13 1,4-Dioxane	88	3.752	3.750	0.101	91	202401	8.00	4.86	a
14 N-Nitrosodimethylamine	42	4.121	4.066	0.053	88	298534	8.00	5.71	
15 Pyridine	52	4.174	4.172	0.069	96	475099	16.0	7.83	a
35 Benzaldehyde	77	6.241	6.234	0.004	94	1242378	16.0	14.5	
37 Phenol	94	6.284	6.277	0.005	99	622374	8.00	4.94	
36 Aniline	93	6.332	6.325	0.005	99	844203	8.00	5.65	
39 Bis(2-chloroethyl)ether	93	6.359	6.357	0.000	98	740587	8.00	7.23	
40 2-Chlorophenol	128	6.444	6.431	0.010	94	901121	8.00	7.96	
41 n-Decane	57	6.444	6.437	0.004	83	482017	8.00	4.87	
43 1,3-Dichlorobenzene	146	6.573	6.565	0.005	98	966767	8.00	7.07	
44 1,4-Dichlorobenzene	146	6.631	6.624	0.005	96	994926	8.00	7.14	
45 Benzyl alcohol	108	6.717	6.709	0.005	93	478521	8.00	7.26	
46 1,2-Dichlorobenzene	146	6.765	6.757	0.005	98	980904	8.00	7.38	
48 2-Methylphenol	108	6.797	6.789	0.005	94	723746	8.00	7.53	
49 2,2'-oxybis[1-chloropropan	45	6.818	6.810	0.005	88	910372	8.00	6.44	
47 Indene	115	6.840	6.837	0.000	90	9215815	64.0	44.5	Ee
57 4-Methylphenol	108	6.920	6.918	0.000	96	733667	8.00	7.53	
53 N-Nitrosodi-n-propylamine	70	6.930	6.923	0.004	87	517407	8.00	7.45	
52 Acetophenone	105	6.941	6.939	-0.001	97	1154863	8.00	8.15	
58 Hexachloroethane	117	7.059	7.051	0.005	87	328515	8.00	6.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Nitrobenzene	77	7.096	7.094	0.000	85	825131	8.00	7.86	
62 Isophorone	82	7.288	7.286	-0.001	98	1575209	8.00	8.28	
64 2-Nitrophenol	139	7.368	7.361	0.004	94	528299	8.00	8.74	
66 2,4-Dimethylphenol	107	7.368	7.367	-0.001	91	879858	8.00	8.53	
69 Bis(2-chloroethoxy)methane	93	7.443	7.441	-0.001	99	937233	8.00	7.96	
70 Benzoic acid	105	7.465	7.457	0.005	89	1213991	64.0	18.6	
72 2,4-Dichlorophenol	162	7.571	7.565	0.005	89	903511	8.00	8.87	
73 1,2,4-Trichlorobenzene	180	7.646	7.638	0.005	93	955676	8.00	7.93	
74 Naphthalene	128	7.721	7.719	0.000	97	2584765	8.00	7.67	
76 4-Chloroaniline	127	7.742	7.745	-0.006	97	758168	8.00	6.60	
77 2,6-Dichlorophenol	162	7.758	7.757	-0.001	97	908667	8.00	8.91	
79 Hexachlorobutadiene	225	7.812	7.809	0.000	93	554827	8.00	7.69	
84 Caprolactam	113	8.036	8.034	0.000	83	205996	16.0	6.98	
85 4-Chloro-3-methylphenol	107	8.127	8.124	0.000	92	730045	8.00	8.65	
87 2-Methylnaphthalene	142	8.298	8.295	0.000	91	1851983	8.00	8.07	
89 1-Methylnaphthalene	142	8.383	8.381	-0.001	92	1736537	8.00	8.05	
90 Hexachlorocyclopentadiene	237	8.431	8.429	-0.001	92	464529	8.00	5.23	
91 1,2,4,5-Tetrachlorobenzene	216	8.442	8.440	0.000	95	1081751	8.00	8.07	
93 2,4,6-Trichlorophenol	196	8.527	8.525	-0.001	88	777974	8.00	9.18	
94 2,4,5-Trichlorophenol	196	8.565	8.563	0.000	93	810654	8.00	9.64	
96 1,1'-Biphenyl	154	8.682	8.680	-0.001	95	2357444	8.00	7.97	
97 2-Chloronaphthalene	162	8.714	8.712	-0.001	94	1851200	8.00	7.90	
100 2-Nitroaniline	65	8.784	8.782	0.000	91	419794	8.00	7.92	
105 Dimethyl phthalate	163	8.907	8.899	0.005	99	2396572	8.00	9.44	
106 1,3-Dinitrobenzene	168	8.949	8.947	-0.001	94	374244	8.00	9.58	
107 2,6-Dinitrotoluene	165	8.971	8.963	0.005	92	552140	8.00	9.01	
108 Acenaphthylene	152	9.072	9.070	-0.001	98	2989527	8.00	8.25	
109 3-Nitroaniline	138	9.126	9.123	0.000	94	350321	8.00	9.20	
111 2,4-Dinitrophenol	184	9.211	9.203	0.005	84	658708	16.0	17.9	
110 Acenaphthene	153	9.216	9.214	-0.001	94	2034845	8.00	8.23	
112 4-Nitrophenol	109	9.238	9.235	0.000	85	447404	16.0	14.4	
114 2,4-Dinitrotoluene	165	9.313	9.310	0.000	94	715527	8.00	9.09	
115 Dibenzofuran	168	9.361	9.358	0.000	97	2841639	8.00	8.43	
118 2,3,4,6-Tetrachlorophenol	232	9.457	9.455	0.000	68	688048	8.00	9.68	
121 Hexadecane	57	9.478	9.476	-0.001	96	806317	8.00	6.79	
120 Diethyl phthalate	149	9.489	9.486	0.000	99	2323298	8.00	9.20	
123 4-Chlorophenyl phenyl ethe	204	9.622	9.620	-0.001	86	1233107	8.00	8.97	
126 4-Nitroaniline	138	9.644	9.641	0.000	89	423061	8.00	8.21	
124 Fluorene	166	9.649	9.647	0.000	94	2327965	8.00	8.69	
127 4,6-Dinitro-2-methylphenol	198	9.665	9.663	-0.001	96	864928	16.0	19.3	
130 N-Nitrosodiphenylamine	169	9.718	9.711	0.004	62	1702102	8.00	8.71	
129 Diphenylamine	169	9.718	9.711	0.004	93	1702102	6.84	7.45	
131 1,2-Diphenylhydrazine	77	9.756	9.753	0.000	41	1773020	8.00	7.53	
132 Azobenzene	77	9.756	9.754	0.000	98	1773020	8.00	7.53	
139 4-Bromophenyl phenyl ether	248	10.039	10.037	0.000	64	778562	8.00	9.14	
140 Hexachlorobenzene	284	10.130	10.127	0.000	94	787846	8.00	9.14	
143 Atrazine	200	10.140	10.132	0.004	95	1510792	16.0	20.7	
148 n-Octadecane	57	10.253	10.250	0.000	94	873315	8.00	7.18	
145 Pentachlorophenol	266	10.285	10.277	0.005	93	887898	16.0	17.4	
151 Phenanthrene	178	10.472	10.469	0.000	97	3520368	8.00	8.58	
152 Anthracene	178	10.514	10.512	-0.001	97	3555558	8.00	8.82	
153 Carbazole	167	10.632	10.629	0.000	95	2616222	8.00	13.8	E

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
157 Di-n-butyl phthalate	149	10.856	10.854	-0.001	100	3890648	8.00	8.91	
164 Fluoranthene	202	11.529	11.521	0.005	97	4267967	8.00	9.51	
166 Benzidine	184	11.609	11.607	-0.001	99	468925	16.0	3.31	
167 Pyrene	202	11.769	11.762	0.004	97	4333111	8.00	8.67	
174 Butyl benzyl phthalate	149	12.368	12.365	0.000	95	1744652	8.00	8.48	
181 Bis(2-ethylhexyl) phthalat	149	13.089	13.086	0.000	93	2573105	8.00	8.67	
179 3,3'-Dichlorobenzidine	252	13.131	13.124	0.004	72	2668394	16.0	19.6	
180 Benzo[a]anthracene	228	13.206	13.205	-0.001	98	4345135	8.00	8.81	
182 Chrysene	228	13.265	13.257	0.005	95	4091532	8.00	8.90	
184 Di-n-octyl phthalate	149	14.066	14.064	-0.001	98	4219773	8.00	8.84	
186 Benzo[b]fluoranthene	252	14.862	14.854	0.005	96	4119660	8.00	9.05	
187 Benzo[k]fluoranthene	252	14.905	14.897	0.005	98	4139398	8.00	8.81	
189 Benzo[a]pyrene	252	15.401	15.394	0.005	76	3847599	8.00	8.79	
193 Indeno[1,2,3-cd]pyrene	276	17.399	17.386	0.010	98	4563895	8.00	9.19	
194 Dibenz(a,h)anthracene	278	17.410	17.396	0.011	89	3911615	8.00	9.42	
195 Benzo[g,h,i]perylene	276	17.965	17.946	0.015	98	3891486	8.00	9.39	
S 263 3-Methylphenol	1				0		8.00	7.53	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00152 Amount Added: 20.00 Units: uL Run Reagent

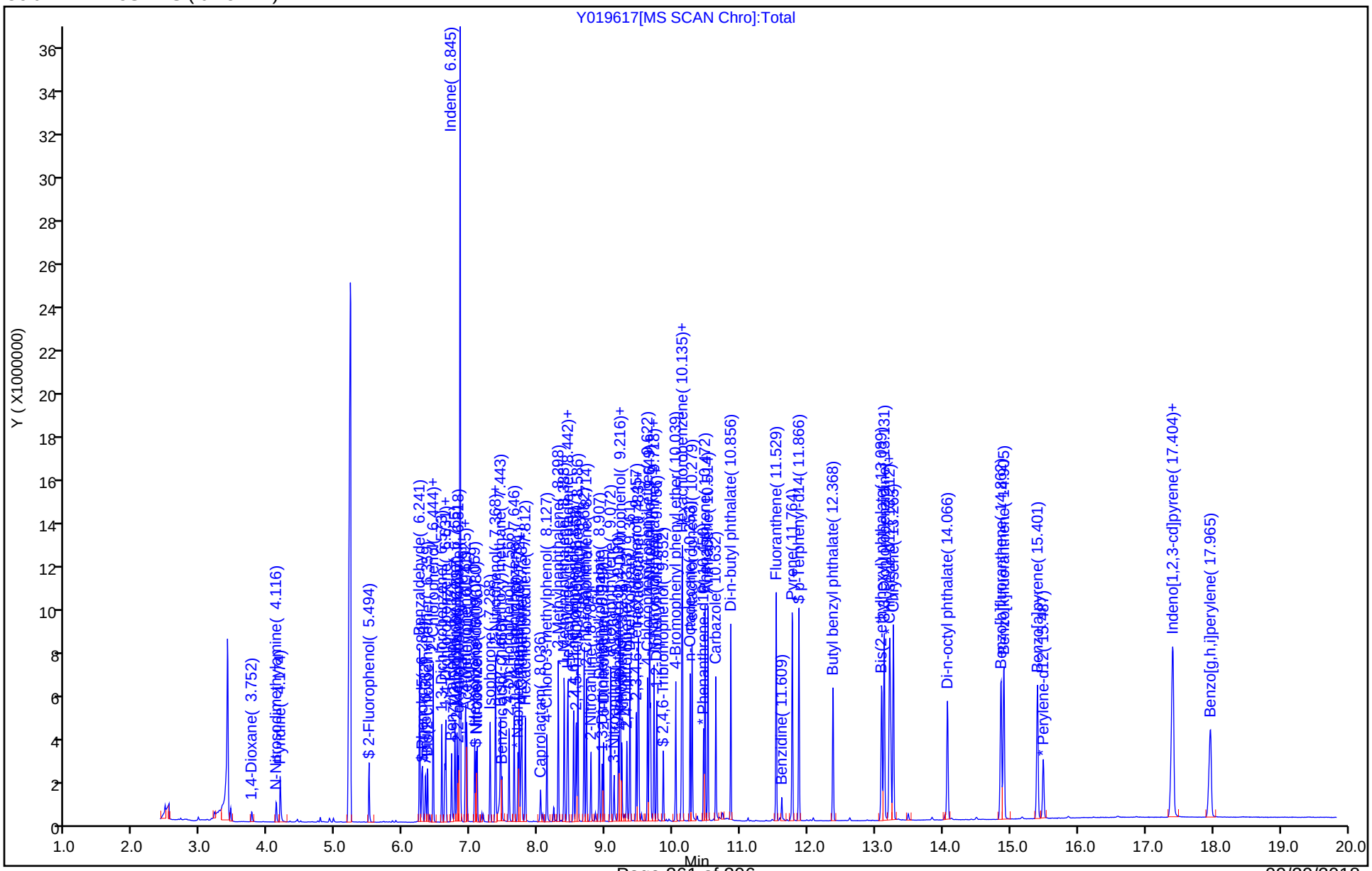
Report Date: 11-Sep-2018 11:44:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019617.D

Injection Date:	10-Sep-2018 18:51:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	LCS 480-433136/2-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

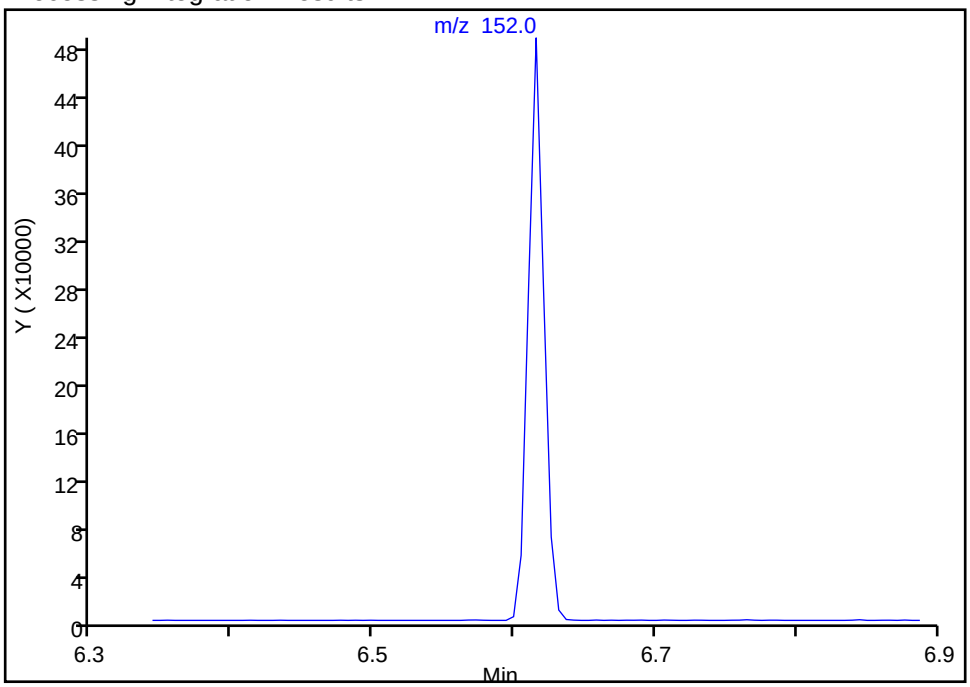
Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019617.D
Injection Date: 10-Sep-2018 18:51:30 Instrument ID: HP5973Y
Lims ID: LCS 480-433136/2-A
Client ID:
Operator ID: BS ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

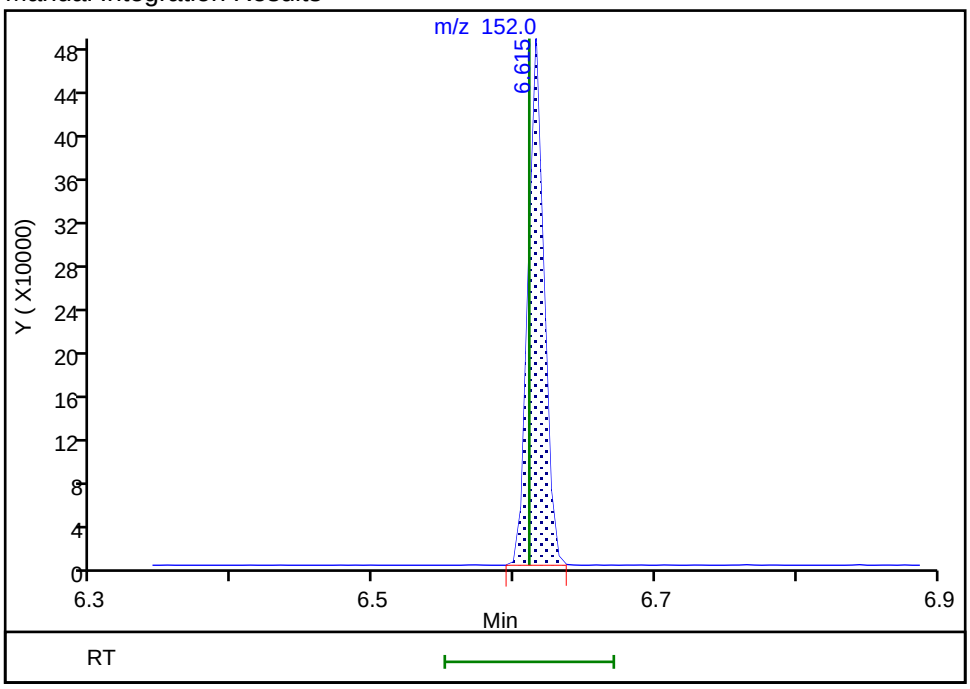
Not Detected
Expected RT: 6.61

Processing Integration Results



Manual Integration Results

RT: 6.62
Area: 373626
Amount: 4.000000
Amount Units: ng/uL



Reviewer: schickr, 11-Sep-2018 11:13:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: MW-17 MS | Lab Sample ID: 480-141245-4 MS

Matrix: Water | Lab File ID: Y019618.D

Analysis Method: 8270D | Date Collected: 09/05/2018 12:00

Extract. Method: 3510C | Date Extracted: 09/06/2018 14:08

Sample wt/vol: 250(mL) | Date Analyzed: 09/10/2018 19:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 433584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	44.1		5.0	0.41
208-96-8	Acenaphthylene	27.6		5.0	0.38
120-12-7	Anthracene	26.8		5.0	0.28
56-55-3	Benzo[a]anthracene	18.1		5.0	0.36
50-32-8	Benzo[a]pyrene	16.7		5.0	0.47
205-99-2	Benzo[b]fluoranthene	16.9		5.0	0.34
191-24-2	Benzo[g,h,i]perylene	16.5		5.0	0.35
207-08-9	Benzo[k]fluoranthene	17.0		5.0	0.73
218-01-9	Chrysene	17.6		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	16.3		5.0	0.42
206-44-0	Fluoranthene	25.7		5.0	0.40
86-73-7	Fluorene	34.3		5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	16.2		5.0	0.47
91-20-3	Naphthalene	27.1		5.0	0.76
85-01-8	Phenanthrene	26.7		5.0	0.44
129-00-0	Pyrene	24.3		5.0	0.34
91-57-6	2-Methylnaphthalene	28.9		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	78		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	66		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	37	X	59-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019618.D
Lims ID: 480-141245-B-4-B MS
Client ID: MW-17
Sample Type: MS
Inject. Date: 10-Sep-2018 19:20:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074536-009
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:44:15 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 11-Sep-2018 11:18:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.613	6.610	0.003	92	366874	4.00	4.00	a
* 2 Naphthalene-d8	136	7.702	7.700	0.002	99	1269025	4.00	4.00	
* 3 Acenaphthene-d10	164	9.187	9.190	-0.003	95	753537	4.00	4.00	
* 4 Phenanthrene-d10	188	10.453	10.451	0.002	96	1471684	4.00	4.00	
* 5 Chrysene-d12	240	13.225	13.223	0.002	99	1519965	4.00	4.00	
* 6 Perylene-d12	264	15.484	15.487	-0.003	98	1540765	4.00	4.00	
$ 7 2-Fluorophenol	112	5.486	5.460	0.024	89	241375	8.00	2.25	
$ 8 Phenol-d5	99	6.271	6.266	0.002	92	237104	8.00	1.78	
$ 9 Nitrobenzene-d5	82	7.077	7.083	-0.003	87	664855	8.00	5.26	
$ 10 2-Fluorobiphenyl	172	8.589	8.589	-0.003	99	1963510	8.00	6.25	
$ 11 2,4,6-Tribromophenol	330	9.855	9.850	0.003	92	125710	8.00	3.41	
$ 12 p-Terphenyl-d14	244	11.863	11.864	-0.003	99	1052525	8.00	2.97	
237 Lidocaine	1		0.195					ND	
202 o-Anisidine	1		0.195					ND	
13 1,4-Dioxane	88	3.729	3.750	0.078	90	114551	8.00	2.80	a
14 N-Nitrosodimethylamine	42	4.108	4.066	0.040	89	162089	8.00	3.16	
15 Pyridine	52	4.156	4.172	0.051	95	231220	16.0	3.88	
18 1-Methylcyclopentanol	71		4.728					ND	
19 2-Picoline	93		4.920					ND	
20 N-Nitrosomethylethylamine	88		5.032					ND	
21 2-Chlorobenzotrifluoride	180		5.267					ND	
24 Acrylamide	71		5.299					ND	
22 Methyl methanesulfonate	80		5.310					ND	
23 4-Chlorobenzotrifluoride	180	5.336	5.334	-0.001	86	1750		0.0177	
25 n,n'-Dimethylacetamide	87		5.406					ND	
196 CBF-400	214		5.530					ND	
26 4-Chloropyridine	78		5.598					ND	U
27 3-Chloropyridine	78		5.662					ND	U
28 N-Nitrosodiethylamine	102		5.679					ND	
29 3-Chlorobenzotrifluoride	180		5.737					ND	
30 Ethyl methanesulfonate	79		5.924					ND	
31 2-Chloropyridine	78		6.020					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
257 CBF-500	161		6.089					ND	
32 2-Chlorotoluene	91		6.181					ND	
33 3-Chlorotoluene	91		6.197					ND	
34 4-Chlorotoluene	91		6.229					ND	
35 Benzaldehyde	77	6.239	6.234	0.002	94	910234	16.0	10.8	
37 Phenol	94	6.287	6.277	0.008	98	247120	8.00	2.00	
36 Aniline	93	6.330	6.325	0.003	99	379820	8.00	2.59	
39 Bis(2-chloroethyl)ether	93	6.362	6.357	0.003	98	546994	8.00	5.44	
38 Pentachloroethane	167		6.373					ND	
40 2-Chlorophenol	128	6.442	6.431	0.008	95	357307	8.00	3.22	
41 n-Decane	57	6.442	6.437	0.002	89	359845	8.00	3.70	
42 p-Fluoroaniline	111		6.501					ND	
43 1,3-Dichlorobenzene	146	6.570	6.565	0.002	99	907714	8.00	6.76	
44 1,4-Dichlorobenzene	146	6.629	6.624	0.003	96	918069	8.00	6.71	
45 Benzyl alcohol	108	6.714	6.709	0.002	94	248748	8.00	3.85	
46 1,2-Dichlorobenzene	146	6.762	6.757	0.002	98	876518	8.00	6.71	
48 2-Methylphenol	108	6.794	6.789	0.002	96	270532	8.00	2.87	
49 2,2'-oxybis[1-chloropropan	45	6.816	6.810	0.003	89	683041	8.00	4.92	
47 Indene	115	6.842	6.837	0.002	91	8626342	64.0	42.4	Ee
50 N-Nitrosopyrrolidine	100		6.918					ND	
57 4-Methylphenol	108	6.923	6.918	0.003	93	256893	8.00	2.69	
53 N-Nitrosodi-n-propylamine	70	6.928	6.923	0.002	87	364565	8.00	5.35	
52 Acetophenone	105	6.939	6.939	-0.003	98	823845	8.00	5.92	
54 N-Nitrosomorpholine	56		6.944					ND	
51 N-Methylaniline	106		6.950					ND	U
56 2-Toluidine	106		6.976					ND	U
55 4-Methylbenzenamine	106		6.987					ND	U
58 Hexachloroethane	117	7.056	7.051	0.002	87	317498	8.00	6.25	
59 Nitrobenzene	77	7.093	7.094	-0.003	85	618901	8.00	6.10	
60 2,6-Dichloropyridine	112		7.163					ND	
61 N-Nitrosopiperidine	114		7.217					ND	
282 2,4-Dichlorotoluene	125		7.282					ND	
62 Isophorone	82	7.286	7.286	-0.003	98	1122211	8.00	6.11	
63 2-Chloroaniline	127		7.345					ND	
287 1,3,5-Trichlorobenzene	180	7.377	7.365	0.014	48	908		NC	
64 2-Nitrophenol	139	7.366	7.361	0.002	94	219715	8.00	3.80	
66 2,4-Dimethylphenol	107	7.371	7.367	0.002	92	340359	8.00	3.42	
65 Benzeneacetonitrile	117		7.377					ND	
68 o,o',o''-Triethylphosphoro	198		7.409					ND	
67 Tetraethyl lead	237		7.435					ND	
69 Bis(2-chloroethoxy)methane	93	7.441	7.441	-0.003	99	638635	8.00	5.62	
70 Benzoic acid	105	7.435	7.457	-0.025	88	412687	64.0	8.08	
71 alpha,alpha-Dimethyl phene	58		7.548					ND	
72 2,4-Dichlorophenol	162	7.569	7.565	0.003	88	360267	8.00	3.69	
286 4-Chlorophenol	128	7.665	7.616	0.046	54	2520		NC	
73 1,2,4-Trichlorobenzene	180	7.644	7.638	0.003	94	880930	8.00	7.57	
75 Alpha-Terpineol	59		7.702					ND	U
74 Naphthalene	128	7.718	7.719	-0.003	97	2203033	8.00	6.77	
76 4-Chloroaniline	127	7.740	7.745	-0.008	97	433963	8.00	3.91	
77 2,6-Dichlorophenol	162	7.756	7.757	-0.003	96	370641	8.00	3.78	
78 Hexachloropropene	213		7.794					ND	
79 Hexachlorobutadiene	225	7.809	7.809	-0.003	94	539996	8.00	7.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
80 Benzeneacetic acid (TIC)	91		7.917					ND	
82 N-Nitrosodi-n-butylamine	84		7.997					ND	U
81 Quinoline	129		7.997					ND	U
84 Caprolactam	113	8.023	8.034	-0.013	82	108175	16.0	3.84	
83 p-Phenylene diamine	108		8.039					ND	
85 4-Chloro-3-methylphenol	107	8.130	8.124	0.003	92	274285	8.00	3.39	
86 Safrole, Total	162		8.200					ND	U
281 2,4,5-Trichlorotoluene	159	8.247	8.246	-0.002	48	1923		NC	
198 NVF-400	82	8.263	8.270	-0.011	0	2075		0.006540	
87 2-Methylnaphthalene	142	8.301	8.295	0.003	91	1602794	8.00	7.24	
88 Phthalic anhydride	104		8.338					ND	
89 1-Methylnaphthalene	142	8.386	8.381	0.002	93	1527260	8.00	7.33	
90 Hexachlorocyclopentadiene	237	8.434	8.429	0.002	94	479148	8.00	5.42	
91 1,2,4,5-Tetrachlorobenzene	216	8.439	8.440	-0.003	95	968363	8.00	7.25	
275 Isosafrole Peak 1	162		8.445					ND	U
258 CU-600	58	8.471	8.465	0.003	0	167		0.000526	
93 2,4,6-Trichlorophenol	196	8.525	8.525	-0.003	88	319385	8.00	3.83	
284 2,3-Dichlorobenzenamine	161	8.525	8.538	-0.016	49	4368		NC	
94 2,4,5-Trichlorophenol	196	8.562	8.563	-0.003	95	323948	8.00	3.90	
277 Isosafrole Peak 2	162		8.632					ND	U
95 Isosafrole	162		8.632					ND	U
285 1,2,3,4 -Tetrachlorobenzen	216	8.685	8.668	0.014	48	1219		NC	
96 1,1'-Biphenyl	154	8.680	8.680	-0.003	96	1977493	8.00	6.71	
97 2-Chloronaphthalene	162	8.717	8.712	0.002	94	1571726	8.00	6.74	
99 1-Chloronaphthalene	162		8.739					ND	U
100 2-Nitroaniline	65	8.781	8.782	-0.003	92	287704	8.00	5.48	
102 1,4-Naphthoquinone	158		8.851					ND	U
103 Dicyclohexylamine	138		8.867					ND	
104 1,4-Dinitrobenzene	168		8.878					ND	
105 Dimethyl phthalate	163	8.904	8.899	0.002	99	1343546	8.00	5.31	
106 1,3-Dinitrobenzene	168	8.947	8.947	-0.003	96	263202	8.00	7.02	
107 2,6-Dinitrotoluene	165	8.968	8.963	0.002	90	412679	8.00	6.78	
108 Acenaphthylene	152	9.075	9.070	0.002	97	2490520	8.00	6.91	
109 3-Nitroaniline	138	9.123	9.123	-0.003	96	205940	8.00	5.43	
111 2,4-Dinitrophenol	184	9.209	9.203	0.003	84	230654	16.0	7.02	
110 Acenaphthene	153	9.219	9.214	0.002	94	2711012	8.00	11.0	
112 4-Nitrophenol	109	9.235	9.235	-0.003	79	151498	16.0	5.45	
114 2,4-Dinitrotoluene	165	9.315	9.310	0.002	94	522125	8.00	6.69	
113 Pentachlorobenzene	250	9.331	9.330	-0.001	94	8899		0.0809	
115 Dibenzofuran	168	9.358	9.358	-0.003	97	2506904	8.00	7.47	
117 2,3,5,6-Tetrachlorophenol	232		9.417					ND	U
116 1-Naphthylamine	143	9.417	9.414	0.000	52	618		0.0462	
118 2,3,4,6-Tetrachlorophenol	232	9.454	9.455	-0.003	68	315785	8.00	4.50	
121 Hexadecane	57	9.481	9.476	0.002	95	382688	8.00	3.24	
119 2-Naphthylamine	143		9.487					ND	U
120 Diethyl phthalate	149	9.486	9.486	-0.003	99	1652998	8.00	6.57	
122 Thionazin	97		9.562					ND	
123 4-Chlorophenyl phenyl ethe	204	9.620	9.620	-0.003	88	978175	8.00	7.15	
125 N-Nitro-o-toluidine	152		9.636					ND	U
126 4-Nitroaniline	138	9.641	9.641	-0.003	90	279418	8.00	5.42	
128 Tributyl phosphate	99		9.647					ND	
124 Fluorene	166	9.652	9.647	0.003	94	2290047	8.00	8.58	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
127 4,6-Dinitro-2-methylphenol	198	9.663	9.663	-0.004	97	378066	16.0	8.76	
130 N-Nitrosodiphenylamine	169	9.716	9.711	0.002	78	1288181	8.00	6.70	
129 Diphenylamine	169	9.716	9.711	0.002	93	1288181	6.84	5.73	
131 1,2-Diphenylhydrazine	77	9.759	9.753	0.003	41	1390650	8.00	6.00	
132 Azobenzene	77	9.759	9.754	0.003	97	1390650	8.00	6.00	
134 Sulfotepp	322		9.807					ND	
135 1,3,5-Trinitrobenzene	213		9.909					ND	U
278 Diallate Peak 1	86		9.946					ND	
138 Phenacetin	108		9.946					ND	
136 Diallate	86		9.946					ND	
137 Phorate	75		9.951					ND	U
280 Diallate Peak 2	86		10.026					ND	U
139 4-Bromophenyl phenyl ether	248	10.036	10.037	-0.003	61	591708	8.00	7.06	
141 Dimethoate	87		10.101					ND	
142 Simazine	201		10.122					ND	U
140 Hexachlorobenzene	284	10.127	10.127	-0.003	95	451472	8.00	5.32	
143 Atrazine	200	10.138	10.132	0.002	95	1018684	16.0	14.0	
98 n,n'-Dimethylaniline	120	10.245	10.238	0.004	43	600		NC	
148 n-Octadecane	57	10.250	10.250	-0.003	94	404417	8.00	3.38	
144 4-Aminobiphenyl	169		10.261					ND	U
147 Pronamide	173		10.277					ND	
145 Pentachlorophenol	266	10.282	10.277	0.002	93	430045	16.0	8.70	
146 Pentachloronitrobenzene	237		10.293					ND	
149 Disulfoton	88		10.389					ND	U
150 Dinoseb	211		10.400					ND	U
151 Phenanthrene	178	10.474	10.469	0.002	97	2694048	8.00	6.68	
152 Anthracene	178	10.517	10.512	0.002	96	2659549	8.00	6.70	
153 Carbazole	167	10.635	10.629	0.003	95	2638429	8.00	14.1	E
155 Methyl parathion	109		10.715					ND	U
154 Alachlor	160		10.720					ND	U
157 Di-n-butyl phthalate	149	10.854	10.854	-0.003	100	2992857	8.00	6.97	
163 Octachlorostyrene	308		10.893					ND	
288 2-Methylanthracene	192	10.918	10.913	0.003	51	2462		NC	
158 Ethyl Parathion	97		11.036					ND	
159 4-Nitroquinoline-1-oxide	190		11.116					ND	
161 Methapyrilene	58		11.143					ND	
160 Anthraquinone	180		11.158					ND	U
162 Isodrin	193		11.388					ND	U
164 Fluoranthene	202	11.527	11.521	0.003	97	2834871	8.00	6.42	
165 1-Hydroxyanthraquinone	224		11.564					ND	
166 Benzidine	184	11.612	11.607	0.002	99	323289	16.0	2.39	
167 Pyrene	202	11.767	11.762	0.002	98	2912148	8.00	6.08	
276 Aramite Peak 1	185		11.789					ND	
168 Aramite, Total	185		11.864					ND	
279 Aramite Peak 2	185		11.864					ND	U
170 p-Dimethylamino azobenzene	120		12.008					ND	
171 Chlorobenzilate	251		12.040					ND	
169 1,4-Dihydroxyanthraquinone	240		12.050					ND	U
172 Famphur	218		12.338					ND	
175 9-Octadecenamide	59		12.365					ND	U
174 Butyl benzyl phthalate	149	12.370	12.365	0.002	94	1185569	8.00	6.04	
173 3,3'-Dimethylbenzidine	212		12.392					ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
176 Kepone	272		12.552					ND	
177 2-Acetylaminofluorene	181		12.723					ND	
181 Bis(2-ethylhexyl) phthalat	149	13.091	13.086	0.002	93	1178435	8.00	4.20	
178 4,4'-Methylene bis(2-chlor	231		13.113					ND	
179 3,3'-Dichlorobenzidine	252	13.124	13.124	-0.003	72	1707718	16.0	13.1	
180 Benzo[a]anthracene	228	13.209	13.205	0.002	98	2132196	8.00	4.52	
182 Chrysene	228	13.262	13.257	0.002	95	1940527	8.00	4.41	
183 6-Methylchrysene	242		13.920					ND	U
184 Di-n-octyl phthalate	149	14.064	14.064	-0.003	98	1852873	8.00	4.12	
185 7,12-Dimethylbenz(a)anthra	256		14.828					ND	U
186 Benzo[b]fluoranthene	252	14.854	14.854	-0.003	96	1923102	8.00	4.23	
187 Benzo[k]fluoranthene	252	14.897	14.897	-0.003	98	1992071	8.00	4.24	
192 Hexachlorophene	196		15.186					ND	
283 Benzo[e]pyrene	252	15.260	15.250	0.007	1	601		NC	
189 Benzo[a]pyrene	252	15.393	15.394	-0.003	76	1822829	8.00	4.17	
190 3-Methylcholanthrene	268		15.949					ND	
191 Dibenz[a,h]acridine	279		16.911					ND	U
193 Indeno[1,2,3-cd]pyrene	276	17.380	17.386	-0.009	98	2012476	8.00	4.06	
194 Dibenz(a,h)anthracene	278	17.396	17.396	-0.003	89	1688378	8.00	4.08	
195 Benzo[g,h,i]perylene	276	17.952	17.946	0.002	98	1705107	8.00	4.12	
199 CAG-800	149	19.677	19.667	0.002	0	506		0.001595	
256 CN-500	112		19.994					ND	
197 Dibenzo[a,e]pyrene	302		21.194					ND	
301 3-Amino-4-Chlorobenzotrifl	1		0.000					ND	
300 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
296 1,2-dichloro-4-(trifluorom	1		0.000					ND	
302 1-Bromo-2-chloroethane TIC	1		0.000					ND	
290 1,3-Dibromobenzene TIC	1		0.000					ND	
291 1,4-Dibromobenzene TIC	1		0.000					ND	
297 Fluorobenzene TIC	1		0.000					ND	
295 4-Bromofluorobenzene TIC	1		0.000					ND	
294 3'-Bromoacetophenone TIC	1		0.000					ND	
293 3-Nitro-4-Chlorobenzotrifl	1		0.000					ND	
292 Ethylene Dibromide TIC	1		0.000					ND	
298 2-Bromopyridine TIC	1		0.000					ND	
299 1-Bromo-3-fluorobenzene TI	1		0.000					ND	
242 1,3-phenylenediamine TIC	1		0.195					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.195					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
216 5-Methyl-o-Anisidine TIC	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
222 2-Chlorobenzotrifluoride T	1		0.195					ND	
241 5-Methyl-o-Anisidine	1		0.195					ND	
205 Phenylmercaptan	110		0.195					ND	
244 Pendimethalin	1		0.195					ND	
209 2,4-Dichlorotoluene TIC	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4-Chlorobenzotrifluoride T	1		0.195					ND	
213 4,4'-Methylene bis(2-chlor	1		0.195					ND	
206 2,4-Toluene diamine	1		0.195					ND	
218 3-Chlorobenzotrifluoride T	1		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
243 2,4-Xylidine TIC	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
214 1,2,3-Trimethylbenzene	105		0.195					ND	
204 2,6-Dichlorotoluene TIC	1		0.195					ND	
229 o-Anisidine TIC	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
250 Pentachlorophenol_T	266	10.282	10.280	0.002	93	430045			NR
252 Benzidine_T	184	11.612	11.610	0.002	99	309850			NR
253 4,4'-DDE	246		11.797					ND	
254 4,4'-DDD	235	12.189	12.171	0.018	54	97			NR
255 4,4'-DDT	235		12.534					ND	
S 261 Total Cresols	1				0			5.55	
S 259 Chlorobenzotrifluoride N.O	1				0			0.0177	
S 264 EPH Adjustment 1	1		0.195					ND	
S 260 Chlorotoluene N.O.S	1		0.195					ND	
S 262 3 & 4 Methylphenol	108				0			2.69	
S 263 3-Methylphenol	1				0		8.00	2.69	
T 274 2-Aminopyridine TIC	99	5.187	5.556	-0.371	39	11743		0.1280	
T 231 1-Methylnaphthalene (TIC)	142	8.301	8.502	-0.204	91	1601549		5.05	
T 156 2,3,7,8-TCDD	322		12.736					ND	
T 289 2,3,7,8-TCDD TIC	322		0.000					ND	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- NC - Not Calibrated
- E - Exceeded Maximum Amount
- e - Potential Peak Saturated

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MB_LLIS_WRK_00152 Amount Added: 20.00 Units: uL Run Reagent

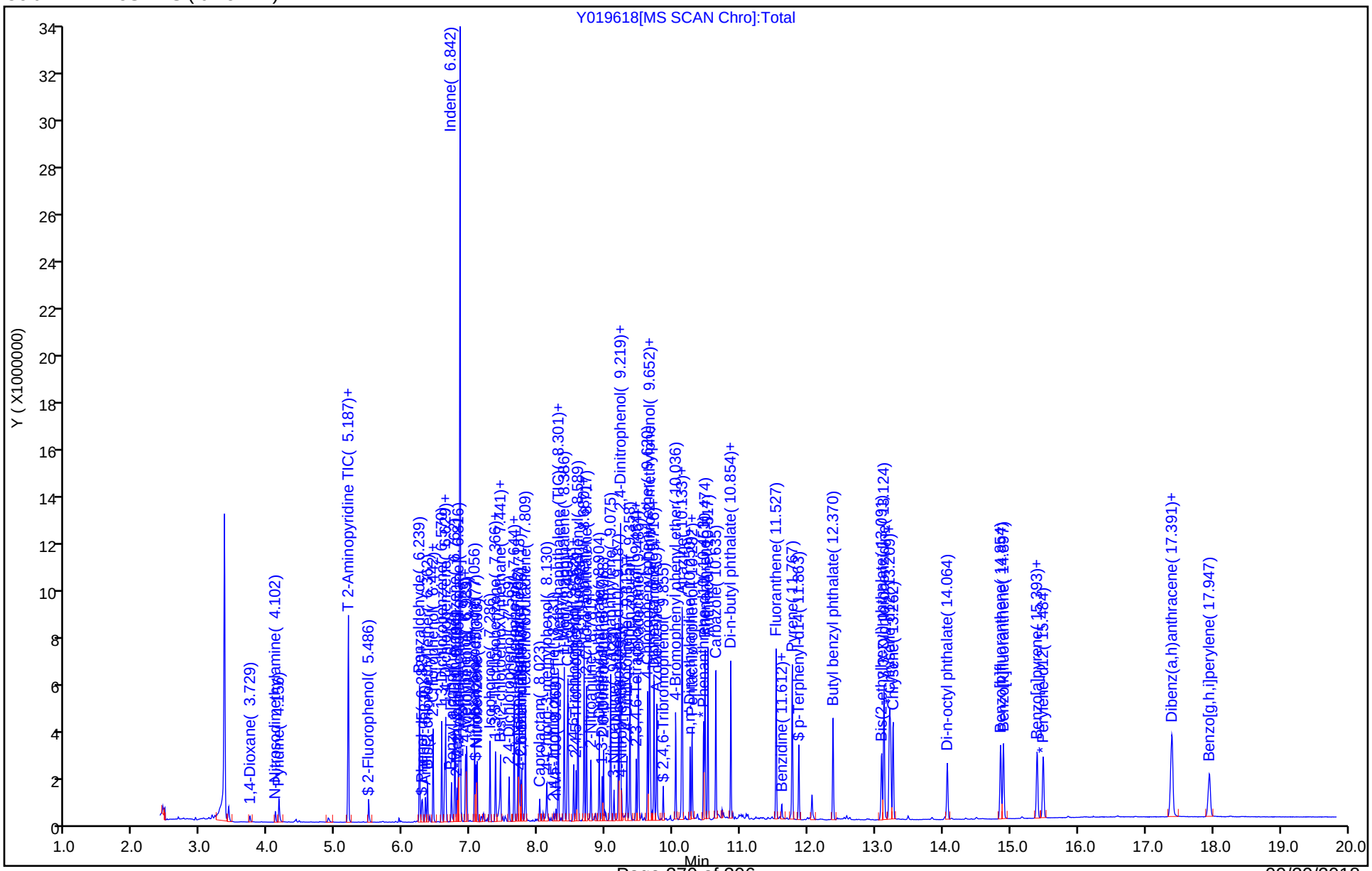
Report Date: 11-Sep-2018 11:44:41 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019618.D

Injection Date:	10-Sep-2018 19:20:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	480-141245-B-4-B MS			Worklist Smp#:	9
Client ID:	MW-17				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

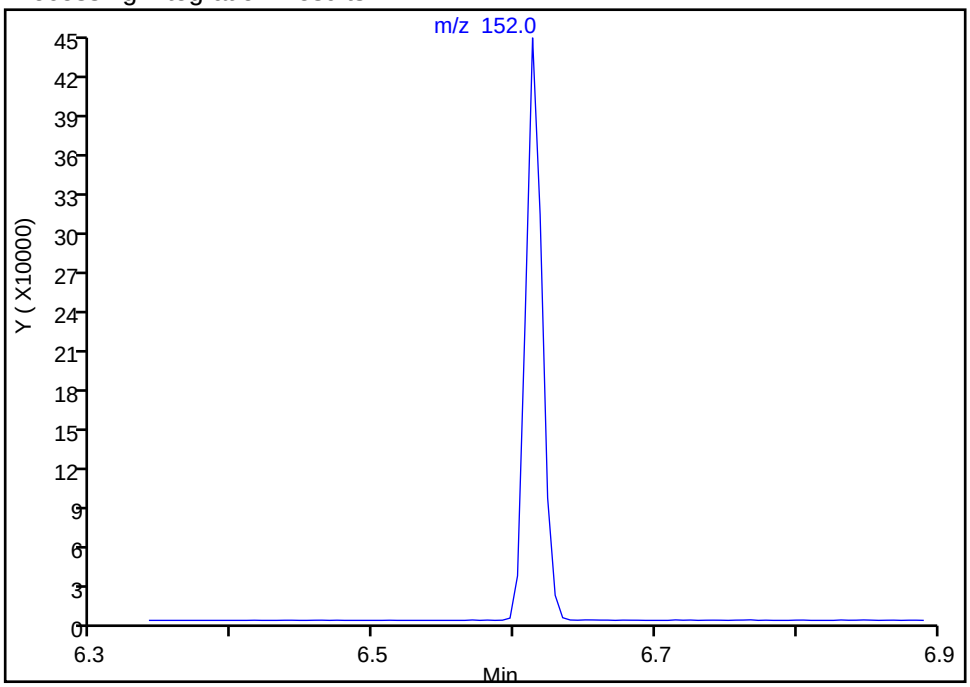
Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019618.D				
Injection Date:	10-Sep-2018 19:20:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-B-4-B MS				
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

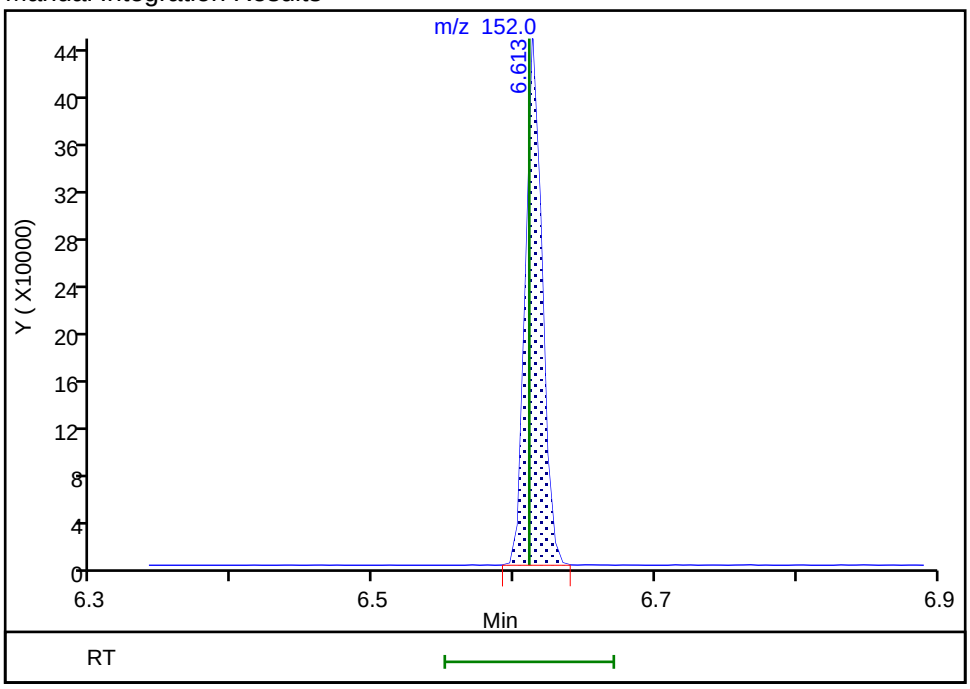
Processing Integration Results

Not Detected
Expected RT: 6.61



Manual Integration Results

RT: 6.61
Area: 366874
Amount: 4.000000
Amount Units: ng/uL



Reviewer: schickr, 11-Sep-2018 11:13:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-141245-1

SDG No.:

Client Sample ID: MW-17 MSD | Lab Sample ID: 480-141245-4 MSD

Matrix: Water | Lab File ID: Y019619.D

Analysis Method: 8270D | Date Collected: 09/05/2018 12:00

Extract. Method: 3510C | Date Extracted: 09/06/2018 14:08

Sample wt/vol: 250(mL) | Date Analyzed: 09/10/2018 19:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 433584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	52.5		5.0	0.41
208-96-8	Acenaphthylene	32.4		5.0	0.38
120-12-7	Anthracene	34.3		5.0	0.28
56-55-3	Benzo[a]anthracene	34.2		5.0	0.36
50-32-8	Benzo[a]pyrene	32.9		5.0	0.47
205-99-2	Benzo[b]fluoranthene	34.6		5.0	0.34
191-24-2	Benzo[g,h,i]perylene	33.9		5.0	0.35
207-08-9	Benzo[k]fluoranthene	32.9		5.0	0.73
218-01-9	Chrysene	34.4		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	33.9		5.0	0.42
206-44-0	Fluoranthene	37.3		5.0	0.40
86-73-7	Fluorene	42.4		5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	33.5		5.0	0.47
91-20-3	Naphthalene	30.4		5.0	0.76
85-01-8	Phenanthrene	33.0		5.0	0.44
129-00-0	Pyrene	34.5		5.0	0.34
91-57-6	2-Methylnaphthalene	31.6		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	97		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	88		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	93		59-136

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019619.D
Lims ID: 480-141245-A-4-B MSD
Client ID: MW-17
Sample Type: MSD
Inject. Date: 10-Sep-2018 19:48:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0074536-010
Operator ID: BS Instrument ID: HP5973Y

Method: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 11-Sep-2018 11:44:15 Calib Date: 31-Aug-2018 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180831-74339.b\Y019481.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: schickr Date: 11-Sep-2018 11:22:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.613	6.610	0.003	92	374775	4.00	4.00	a
* 2 Naphthalene-d8	136	7.703	7.700	0.003	99	1288079	4.00	4.00	
* 3 Acenaphthene-d10	164	9.187	9.190	-0.003	94	749980	4.00	4.00	
* 4 Phenanthrene-d10	188	10.453	10.451	0.002	96	1493368	4.00	4.00	
* 5 Chrysene-d12	240	13.225	13.223	0.002	99	1561472	4.00	4.00	
* 6 Perylene-d12	264	15.485	15.487	-0.002	99	1553965	4.00	4.00	
$ 7 2-Fluorophenol	112	5.491	5.460	0.029	90	617131	8.00	5.63	
$ 8 Phenol-d5	99	6.277	6.266	0.008	91	581025	8.00	4.28	
$ 9 Nitrobenzene-d5	82	7.078	7.083	-0.002	87	902612	8.00	7.03	
$ 10 2-Fluorobiphenyl	172	8.589	8.589	-0.003	99	2416562	8.00	7.73	
$ 11 2,4,6-Tribromophenol	330	9.855	9.850	0.003	92	309584	8.00	8.17	
$ 12 p-Terphenyl-d14	244	11.863	11.864	-0.003	99	2724844	8.00	7.48	
237 Lidocaine	1		0.195					ND	
202 o-Anisidine	1		0.195					ND	
13 1,4-Dioxane	88	3.750	3.750	0.099	90	192669	8.00	4.62	a
14 N-Nitrosodimethylamine	42	4.113	4.066	0.045	87	281276	8.00	5.36	
15 Pyridine	52	4.172	4.172	0.067	96	503134	16.0	8.27	a
18 1-Methylcyclopentanol	71		4.728					ND	
19 2-Picoline	93		4.920					ND	
20 N-Nitrosomethylethylamine	88		5.032					ND	
21 2-Chlorobenzotrifluoride	180		5.267					ND	
24 Acrylamide	71		5.299					ND	U
22 Methyl methanesulfonate	80		5.310					ND	
23 4-Chlorobenzotrifluoride	180	5.347	5.334	0.010	92	1388		0.0138	
25 n,n'-Dimethylacetamide	87		5.406					ND	
196 CBF-400	214		5.530					ND	
26 4-Chloropyridine	78		5.598					ND	
27 3-Chloropyridine	78		5.662					ND	
28 N-Nitrosodiethylamine	102		5.679					ND	
29 3-Chlorobenzotrifluoride	180		5.737					ND	
30 Ethyl methanesulfonate	79		5.924					ND	
31 2-Chloropyridine	78		6.020					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
257 CBF-500	161		6.089					ND	
32 2-Chlorotoluene	91		6.181					ND	
33 3-Chlorotoluene	91		6.197					ND	
34 4-Chlorotoluene	91		6.229					ND	
35 Benzaldehyde	77	6.239	6.234	0.002	94	1202632	16.0	14.0	
37 Phenol	94	6.287	6.277	0.008	99	579053	8.00	4.58	
36 Aniline	93	6.330	6.325	0.003	99	846599	8.00	5.65	
39 Bis(2-chloroethyl)ether	93	6.362	6.357	0.003	98	766811	8.00	7.46	
38 Pentachloroethane	167		6.373					ND	
40 2-Chlorophenol	128	6.442	6.431	0.008	95	878252	8.00	7.74	
41 n-Decane	57	6.442	6.437	0.002	88	425850	8.00	4.29	
42 p-Fluoroaniline	111		6.501					ND	
43 1,3-Dichlorobenzene	146	6.570	6.565	0.002	98	939636	8.00	6.85	
44 1,4-Dichlorobenzene	146	6.629	6.624	0.003	95	952246	8.00	6.81	
45 Benzyl alcohol	108	6.715	6.709	0.003	93	466951	8.00	7.07	
46 1,2-Dichlorobenzene	146	6.768	6.757	0.008	98	952810	8.00	7.15	
48 2-Methylphenol	108	6.800	6.789	0.008	93	690175	8.00	7.16	
49 2,2'-oxybis[1-chloropropan	45	6.816	6.810	0.003	92	891490	8.00	6.29	
47 Indene	115	6.843	6.837	0.003	90	9496422	64.0	45.7	Ee
50 N-Nitrosopyrrolidine	100		6.918					ND	
57 4-Methylphenol	108	6.923	6.918	0.003	96	690161	8.00	7.06	
53 N-Nitrosodi-n-propylamine	70	6.928	6.923	0.002	86	506974	8.00	7.28	
52 Acetophenone	105	6.944	6.939	0.002	98	1129220	8.00	7.95	
54 N-Nitrosomorpholine	56		6.944					ND	
51 N-Methylaniline	106		6.950					ND	U
56 2-Toluidine	106		6.976					ND	
55 4-Methylbenzenamine	106		6.987					ND	
58 Hexachloroethane	117	7.056	7.051	0.002	87	307986	8.00	5.93	
59 Nitrobenzene	77	7.094	7.094	-0.002	86	787050	8.00	7.65	
60 2,6-Dichloropyridine	112		7.163					ND	
61 N-Nitrosopiperidine	114		7.217					ND	
282 2,4-Dichlorotoluene	125	7.291	7.280	0.009	43	760		NC	
62 Isophorone	82	7.286	7.286	-0.003	98	1531810	8.00	8.22	
63 2-Chloroaniline	127		7.345					ND	U
287 1,3,5-Trichlorobenzene	180	7.377	7.365	0.014	41	1009		NC	
64 2-Nitrophenol	139	7.366	7.361	0.002	93	502872	8.00	8.48	
66 2,4-Dimethylphenol	107	7.372	7.367	0.003	94	848237	8.00	8.39	
65 Benzeneacetonitrile	117		7.377					ND	
68 o,o',o''-Triethylphosphoro	198		7.409					ND	
67 Tetraethyl lead	237		7.435					ND	
69 Bis(2-chloroethoxy)methane	93	7.441	7.441	-0.003	99	901356	8.00	7.81	
70 Benzoic acid	105	7.478	7.457	0.018	89	2115923	64.0	31.3	
71 alpha,alpha-Dimethyl phene	58		7.548					ND	
72 2,4-Dichlorophenol	162	7.569	7.565	0.003	89	890229	8.00	8.91	
286 4-Chlorophenol	128	7.628	7.616	0.009	62	4199		NC	
73 1,2,4-Trichlorobenzene	180	7.644	7.638	0.003	94	911236	8.00	7.72	
75 Alpha-Terpineol	59		7.702					ND	
74 Naphthalene	128	7.719	7.719	-0.002	97	2513805	8.00	7.61	
76 4-Chloroaniline	127	7.745	7.745	-0.003	97	767902	8.00	6.82	
77 2,6-Dichlorophenol	162	7.756	7.757	-0.003	97	881625	8.00	8.82	
78 Hexachloropropene	213		7.794					ND	
79 Hexachlorobutadiene	225	7.809	7.809	-0.003	94	519583	8.00	7.34	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
80 Benzeneacetic acid (TIC)	91		7.917					ND	
82 N-Nitrosodi-n-butylamine	84		7.997					ND	
81 Quinoline	129		7.997					ND	U
84 Caprolactam	113	8.039	8.034	0.003	82	185537	16.0	6.42	
83 p-Phenylene diamine	108		8.039					ND	
85 4-Chloro-3-methylphenol	107	8.130	8.124	0.003	92	691117	8.00	8.35	
86 Safrole, Total	162		8.200					ND	U
281 2,4,5-Trichlorotoluene	159		8.249					ND	
198 NVF-400	82	8.258	8.270	-0.016	0	1893		0.005879	
87 2-Methylnaphthalene	142	8.301	8.295	0.003	92	1778119	8.00	7.91	
88 Phthalic anhydride	104		8.338					ND	
89 1-Methylnaphthalene	142	8.386	8.381	0.002	93	1713003	8.00	8.10	
90 Hexachlorocyclopentadiene	237	8.429	8.429	-0.003	92	420510	8.00	4.79	
91 1,2,4,5-Tetrachlorobenzene	216	8.440	8.440	-0.002	95	1040422	8.00	7.83	
275 Isosafrole Peak 1	162		8.445					ND	U
258 CU-600	58	8.477	8.465	0.009	0	300		0.000932	
93 2,4,6-Trichlorophenol	196	8.525	8.525	-0.003	90	738827	8.00	8.80	
284 2,3-Dichlorobenzenamine	161	8.525	8.538	-0.016	50	9444		NC	
94 2,4,5-Trichlorophenol	196	8.563	8.563	-0.002	93	765213	8.00	9.18	
277 Isosafrole Peak 2	162		8.632					ND	U
95 Isosafrole	162		8.632					ND	U
285 1,2,3,4 -Tetrachlorobenzen	216	8.685	8.668	0.014	54	1476		NC	
96 1,1'-Biphenyl	154	8.680	8.680	-0.003	95	2274729	8.00	7.76	
97 2-Chloronaphthalene	162	8.717	8.712	0.002	94	1783607	8.00	7.68	
99 1-Chloronaphthalene	162		8.739					ND	U
100 2-Nitroaniline	65	8.782	8.782	-0.002	91	402949	8.00	7.67	
102 1,4-Naphthoquinone	158		8.851					ND	U
103 Dicyclohexylamine	138		8.867					ND	
104 1,4-Dinitrobenzene	168		8.878					ND	
105 Dimethyl phthalate	163	8.904	8.899	0.002	99	2325702	8.00	9.24	
106 1,3-Dinitrobenzene	168	8.947	8.947	-0.003	94	366139	8.00	9.57	
107 2,6-Dinitrotoluene	165	8.968	8.963	0.002	90	541136	8.00	8.91	
108 Acenaphthylene	152	9.075	9.070	0.002	98	2911871	8.00	8.11	
109 3-Nitroaniline	138	9.123	9.123	-0.003	95	333425	8.00	8.84	
111 2,4-Dinitrophenol	184	9.209	9.203	0.003	90	666952	16.0	18.2	
110 Acenaphthene	153	9.220	9.214	0.003	94	3212532	8.00	13.1	
112 4-Nitrophenol	109	9.241	9.235	0.003	87	426925	16.0	13.9	
114 2,4-Dinitrotoluene	165	9.316	9.310	0.003	94	697964	8.00	8.96	
113 Pentachlorobenzene	250	9.332	9.330	0.000	93	12151		0.1110	
115 Dibenzofuran	168	9.358	9.358	-0.003	97	2938797	8.00	8.80	
117 2,3,5,6-Tetrachlorophenol	232		9.417					ND	U
116 1-Naphthylamine	143		9.417					ND	U
118 2,3,4,6-Tetrachlorophenol	232	9.455	9.455	-0.002	68	678203	8.00	9.64	
121 Hexadecane	57	9.481	9.476	0.002	96	734036	8.00	6.24	
119 2-Naphthylamine	143		9.487					ND	U
120 Diethyl phthalate	149	9.492	9.486	0.003	99	2275515	8.00	9.09	
122 Thionazin	97		9.562					ND	
123 4-Chlorophenyl phenyl ethe	204	9.620	9.620	-0.003	88	1185614	8.00	8.70	
125 N-Nitro-o-toluidine	152		9.636					ND	
126 4-Nitroaniline	138	9.647	9.641	0.003	90	402233	8.00	7.87	
128 Tributyl phosphate	99		9.647					ND	
124 Fluorene	166	9.652	9.647	0.003	94	2817445	8.00	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
127 4,6-Dinitro-2-methylphenol	198	9.668	9.663	0.002	96	834952	16.0	18.7	
130 N-Nitrosodiphenylamine	169	9.716	9.711	0.002	68	1671155	8.00	8.56	
129 Diphenylamine	169	9.716	9.711	0.002	93	1671155	6.84	7.32	
131 1,2-Diphenylhydrazine	77	9.759	9.753	0.003	50	1721230	8.00	7.32	
132 Azobenzene	77	9.759	9.754	0.003	98	1721230	8.00	7.32	
134 Sulfotepp	322		9.807					ND	
135 1,3,5-Trinitrobenzene	213		9.909					ND	U
278 Diallate Peak 1	86		9.946					ND	
138 Phenacetin	108		9.946					ND	
136 Diallate	86		9.946					ND	
137 Phorate	75		9.951					ND	U
280 Diallate Peak 2	86		10.026					ND	
139 4-Bromophenyl phenyl ether	248	10.042	10.037	0.003	69	748684	8.00	8.80	
141 Dimethoate	87		10.101					ND	
142 Simazine	201		10.122					ND	U
140 Hexachlorobenzene	284	10.128	10.127	-0.002	95	772166	8.00	8.97	
143 Atrazine	200	10.138	10.132	0.002	94	1519922	16.0	21.0	
98 n,n'-Dimethylaniline	120	10.250	10.238	0.009	43	655		NC	
148 n-Octadecane	57	10.250	10.250	-0.003	94	825250	8.00	6.79	
144 4-Aminobiphenyl	169		10.261					ND	U
147 Pronamide	173		10.277					ND	
145 Pentachlorophenol	266	10.282	10.277	0.002	93	903012	16.0	17.7	
146 Pentachloronitrobenzene	237		10.293					ND	
149 Disulfoton	88		10.389					ND	U
150 Dinoseb	211		10.400					ND	U
151 Phenanthrene	178	10.475	10.469	0.003	97	3378951	8.00	8.25	
152 Anthracene	178	10.517	10.512	0.002	97	3456088	8.00	8.58	
153 Carbazole	167	10.635	10.629	0.003	96	2885064	8.00	15.3	E
155 Methyl parathion	109		10.715					ND	
154 Alachlor	160		10.720					ND	U
157 Di-n-butyl phthalate	149	10.854	10.854	-0.003	100	3814340	8.00	8.75	
163 Octachlorostyrene	308		10.893					ND	
288 2-Methylanthracene	192	10.870	10.913	-0.045	93	28840		NC	
158 Ethyl Parathion	97		11.036					ND	U
159 4-Nitroquinoline-1-oxide	190		11.116					ND	
161 Methapyrilene	58		11.143					ND	
160 Anthraquinone	180		11.158					ND	U
162 Isodrin	193		11.388					ND	U
164 Fluoranthene	202	11.527	11.521	0.003	97	4185719	8.00	9.33	
165 1-Hydroxyanthraquinone	224		11.564					ND	U
166 Benzidine	184	11.612	11.607	0.002	99	586884	16.0	4.22	
167 Pyrene	202	11.767	11.762	0.002	97	4244287	8.00	8.63	
276 Aramite Peak 1	185		11.789					ND	U
168 Aramite, Total	185		11.864					ND	
279 Aramite Peak 2	185		11.864					ND	U
170 p-Dimethylamino azobenzene	120		12.008					ND	
171 Chlorobenzilate	251		12.040					ND	
169 1,4-Dihydroxyanthraquinone	240		12.050					ND	U
172 Famphur	218		12.338					ND	U
175 9-Octadecenamide	59		12.365					ND	U
174 Butyl benzyl phthalate	149	12.371	12.365	0.003	95	1707722	8.00	8.44	
173 3,3'-Dimethylbenzidine	212		12.392					ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
176 Kepone	272		12.552					ND	U
177 2-Acetylaminofluorene	181		12.723					ND	
181 Bis(2-ethylhexyl) phthalat	149	13.092	13.086	0.003	93	2399038	8.00	8.22	
178 4,4'-Methylene bis(2-chlor	231		13.113					ND	U
179 3,3'-Dichlorobenzidine	252	13.129	13.124	0.002	73	2541836	16.0	19.0	
180 Benzo[a]anthracene	228	13.209	13.205	0.002	98	4142086	8.00	8.54	
182 Chrysene	228	13.263	13.257	0.003	95	3889834	8.00	8.60	
183 6-Methylchrysene	242		13.920					ND	U
184 Di-n-octyl phthalate	149	14.064	14.064	-0.003	98	3889115	8.00	8.29	
185 7,12-Dimethylbenz(a)anthra	256		14.828					ND	U
186 Benzo[b]fluoranthene	252	14.860	14.854	0.003	96	3979437	8.00	8.65	
187 Benzo[k]fluoranthene	252	14.902	14.897	0.002	98	3908067	8.00	8.24	
192 Hexachlorophene	196		15.186					ND	
283 Benzo[e]pyrene	252	15.234	15.250	-0.019	10	355		NC	
189 Benzo[a]pyrene	252	15.399	15.394	0.003	76	3642430	8.00	8.24	
190 3-Methylcholanthrene	268		15.949					ND	
191 Dibenz[a,h]acridine	279		16.911					ND	U
193 Indeno[1,2,3-cd]pyrene	276	17.397	17.386	0.008	98	4195839	8.00	8.37	
194 Dibenz(a,h)anthracene	278	17.407	17.396	0.008	91	3548809	8.00	8.46	
195 Benzo[g,h,i]perylene	276	17.963	17.946	0.013	98	3547168	8.00	8.47	
199 CAG-800	149	19.709	19.667	0.034	0	299		0.000929	
256 CN-500	112		19.994					ND	
197 Dibenzo[a,e]pyrene	302		21.194					ND	
301 3-Amino-4-Chlorobenzotrifl	1		0.000					ND	
300 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
296 1,2-dichloro-4-(trifluorom	1		0.000					ND	
302 1-Bromo-2-chloroethane TIC	1		0.000					ND	
290 1,3-Dibromobenzene TIC	1		0.000					ND	
291 1,4-Dibromobenzene TIC	1		0.000					ND	
297 Fluorobenzene TIC	1		0.000					ND	
295 4-Bromofluorobenzene TIC	1		0.000					ND	
294 3'-Bromoacetophenone TIC	1		0.000					ND	
293 3-Nitro-4-Chlorobenzotrifl	1		0.000					ND	
292 Ethylene Dibromide TIC	1		0.000					ND	
298 2-Bromopyridine TIC	1		0.000					ND	
299 1-Bromo-3-fluorobenzene TI	1		0.000					ND	
242 1,3-phenylenediamine TIC	1		0.195					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.195					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
216 5-Methyl-o-Anisidine TIC	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
222 2-Chlorobenzotrifluoride T	1		0.195					ND	
241 5-Methyl-o-Anisidine	1		0.195					ND	
205 Phenylmercaptan	110		0.195					ND	
244 Pendimethalin	1		0.195					ND	
209 2,4-Dichlorotoluene TIC	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
233 4-Chlorobenzotrifluoride T	1		0.195					ND	
213 4,4'-Methylene bis(2-chlor	1		0.195					ND	
206 2,4-Toluene diamine	1		0.195					ND	
218 3-Chlorobenzotrifluoride T	1		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
243 2,4-Xylidine TIC	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
214 1,2,3-Trimethylbenzene	105		0.195					ND	
204 2,6-Dichlorotoluene TIC	1		0.195					ND	
229 o-Anisidine TIC	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
250 Pentachlorophenol_T	266	10.282	10.280	0.002	93	903012			NR
252 Benzidine_T	184	11.612	11.610	0.002	99	558401			NR
253 4,4'-DDE	246		11.797					ND	
254 4,4'-DDD	235		12.171					ND	
255 4,4'-DDT	235		12.534					ND	
S 261 Total Cresols	1				0			14.2	
S 259 Chlorobenzotrifluoride N.O	1				0			0.0138	
S 264 EPH Adjustment 1	1		0.195					ND	
S 260 Chlorotoluene N.O.S	1		0.195					ND	
S 262 3 & 4 Methylphenol	108				0			7.06	
S 263 3-Methylphenol	1				0		8.00	7.06	
T 274 2-Aminopyridine TIC	99	5.214	5.556	-0.344	40	64037		0.6835	
T 231 1-Methylnaphthalene (TIC)	142	8.301	8.502	-0.204	91	1778119		5.52	
T 156 2,3,7,8-TCDD	322		12.736					ND	
T 289 2,3,7,8-TCDD TIC	322		0.000					ND	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- NC - Not Calibrated
- E - Exceeded Maximum Amount
- e - Potential Peak Saturated

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MB_LLIS_WRK_00152 Amount Added: 20.00 Units: uL Run Reagent

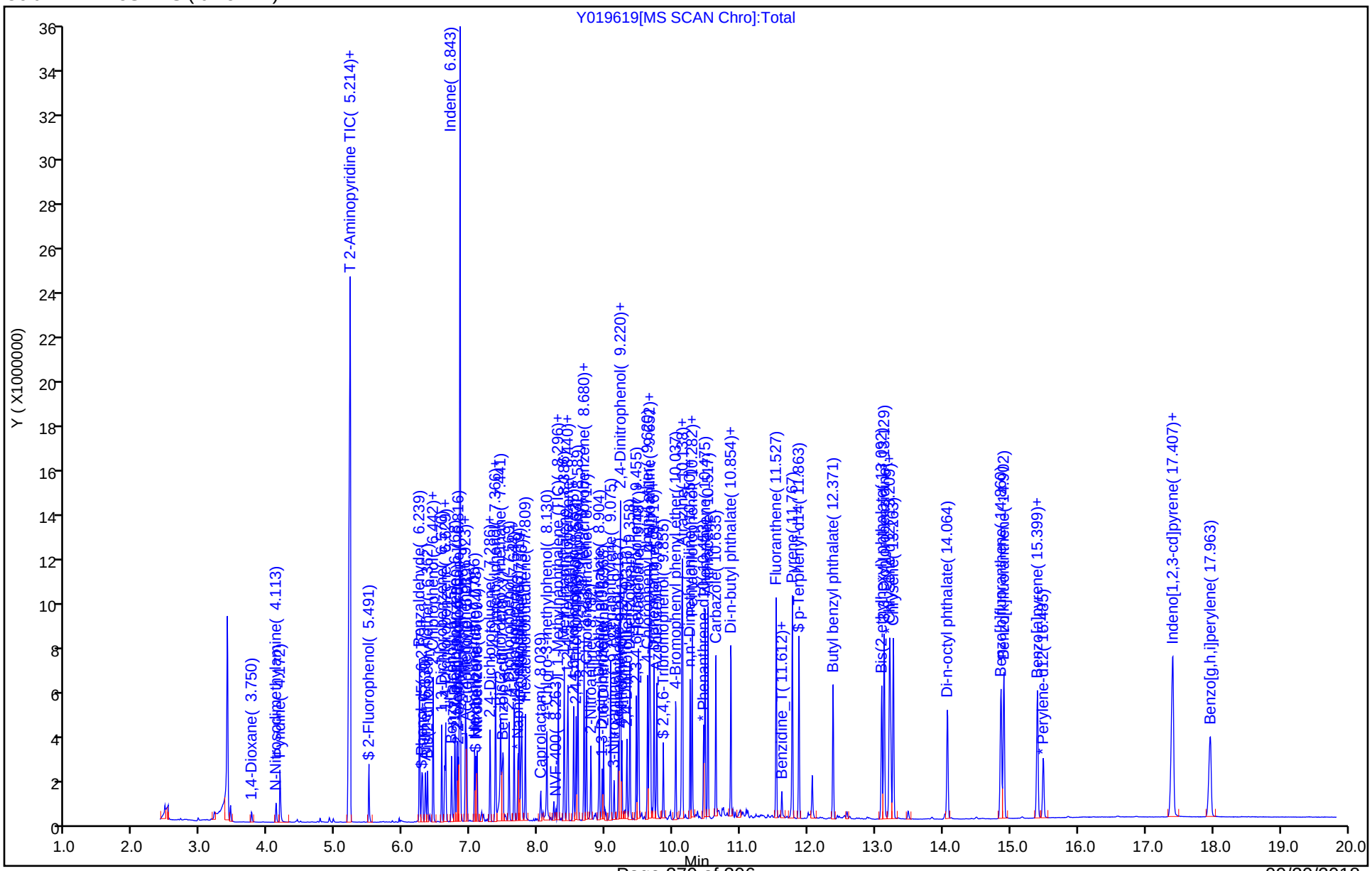
Report Date: 11-Sep-2018 11:44:47 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019619.D

Injection Date:	10-Sep-2018 19:48:30	Instrument ID:	HP5973Y	Operator ID:	BS
Lims ID:	480-141245-A-4-B MSD			Worklist Smp#:	10
Client ID:	MW-17				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

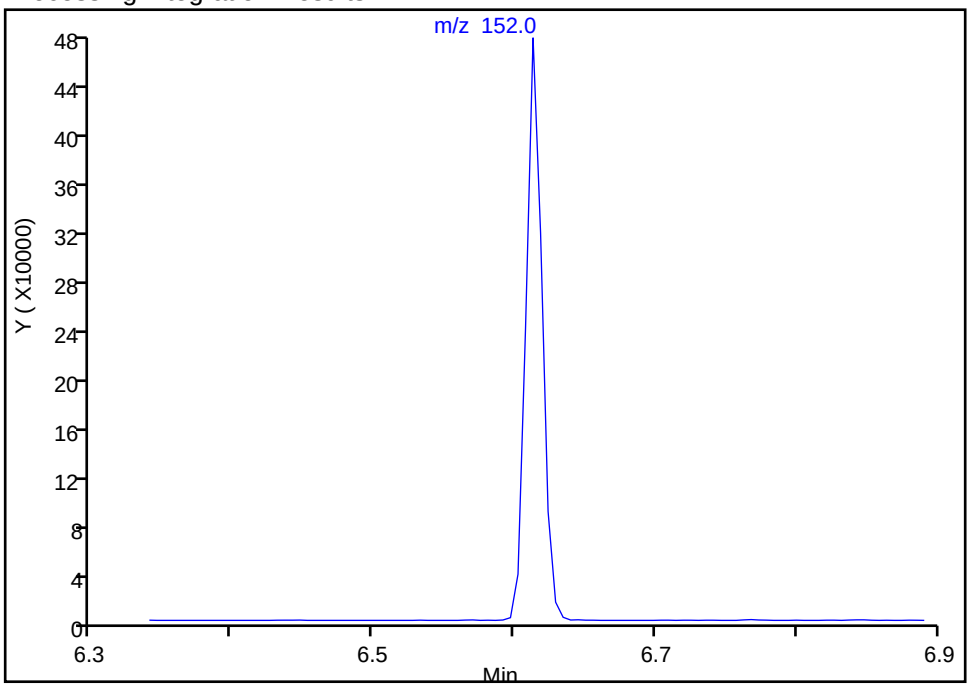
Data File:	\\ChromNA\Buffalo\ChromData\HP5973Y\20180910-74536.b\Y019619.D				
Injection Date:	10-Sep-2018 19:48:30	Instrument ID:	HP5973Y		
Lims ID:	480-141245-A-4-B MSD				
Client ID:	MW-17				
Operator ID:	BS	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	Y-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

* 1 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

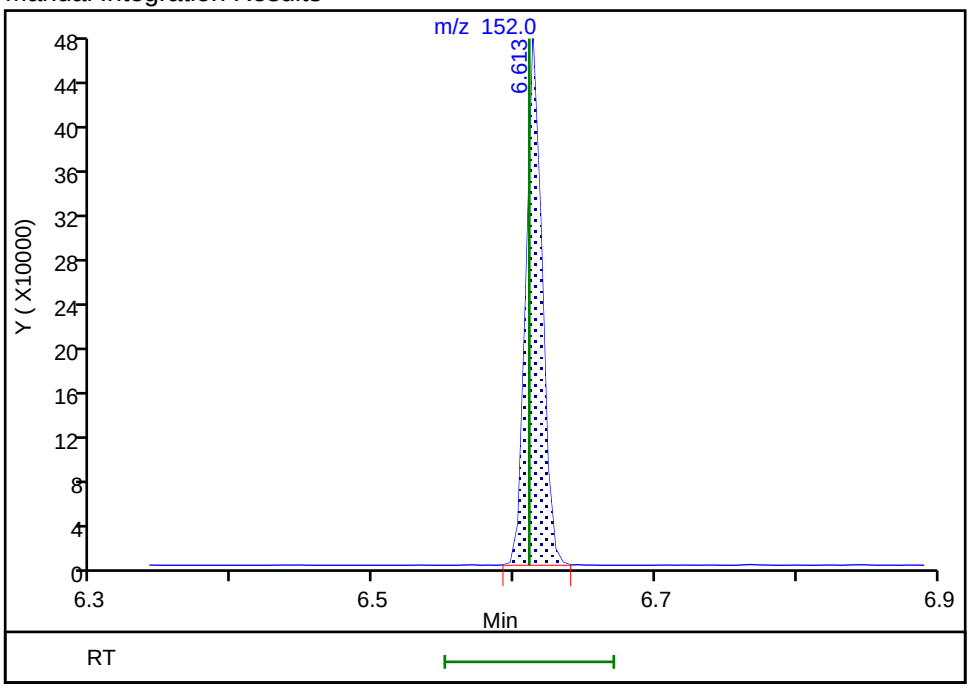
Processing Integration Results

Not Detected
Expected RT: 6.61



Manual Integration Results

RT: 6.61
Area: 374775
Amount: 4.000000
Amount Units: ng/uL



Reviewer: schickr, 11-Sep-2018 11:19:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Instrument ID: HP5973Y Start Date: 08/28/2018 15:29

Analysis Batch Number: 431821 End Date: 08/29/2018 02:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-431821/2		08/28/2018 15:29	1	Y019354.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/3		08/28/2018 16:00	1	Y019355.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/4		08/28/2018 16:28	1	Y019356.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/5		08/28/2018 16:57	1	Y019357.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/6		08/28/2018 17:25	1	Y019358.D	RXI-5Sil MS 0.25(mm)
ICIS 480-431821/7		08/28/2018 17:54	1	Y019359.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/8		08/28/2018 18:22	1	Y019360.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/9		08/28/2018 18:51	1	Y019361.D	RXI-5Sil MS 0.25(mm)
IC 480-431821/10		08/28/2018 19:19	1	Y019362.D	RXI-5Sil MS 0.25(mm)
ICV 480-431821/11		08/28/2018 19:48	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/12		08/28/2018 20:16	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/13		08/28/2018 20:45	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/14		08/28/2018 21:13	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/15		08/28/2018 21:42	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/16		08/28/2018 22:10	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/17		08/28/2018 22:39	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/18		08/28/2018 23:07	1		RXI-5Sil MS 0.25(mm)
ICV 480-431821/19		08/28/2018 23:36	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/20		08/29/2018 00:04	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/21		08/29/2018 00:33	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/22		08/29/2018 01:01	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/23		08/29/2018 01:30	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/24		08/29/2018 01:58	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/25		08/29/2018 02:27	1		RXI-5Sil MS 0.25(mm)
IC 480-431821/26		08/29/2018 02:55	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Instrument ID: HP5973Y Start Date: 09/10/2018 15:58

Analysis Batch Number: 433584 End Date: 09/11/2018 03:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-433584/2		09/10/2018 15:58	1	Y019611.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-433584/3		09/10/2018 16:27	1	Y019612.D	RXI-5Sil MS 0.25(mm)
CCV 480-433584/5		09/10/2018 17:24	1		RXI-5Sil MS 0.25(mm)
MB 480-433136/1-A		09/10/2018 18:22	1	Y019616.D	RXI-5Sil MS 0.25(mm)
LCS 480-433136/2-A		09/10/2018 18:51	1	Y019617.D	RXI-5Sil MS 0.25(mm)
480-141245-4 MS		09/10/2018 19:20	1	Y019618.D	RXI-5Sil MS 0.25(mm)
480-141245-4 MSD		09/10/2018 19:48	1	Y019619.D	RXI-5Sil MS 0.25(mm)
480-141245-4		09/10/2018 20:17	1	Y019620.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 20:46	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 21:15	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 21:44	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 22:13	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 22:42	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 23:10	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/10/2018 23:39	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 00:08	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 00:37	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 01:05	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 01:34	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 02:03	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 02:32	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 03:01	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		09/11/2018 03:29	5		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Batch Number: 433136 Batch Start Date: 09/06/18 14:08 Batch Analyst: Gruning, Anton T

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00085
MB 480-433136/1		3510C, 8270D		250 mL	1 mL	7 SU	<2 SU	>11 SU	
LCS 480-433136/2		3510C, 8270D		250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-141245-B-4 MS	MW-17	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-141245-A-4 MSD	MW-17	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-141245-B-4	MW-17	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00060	AnalysisComment				
MB 480-433136/1		3510C, 8270D		1 mL					
LCS 480-433136/2		3510C, 8270D		1 mL					
480-141245-B-4 MS	MW-17	3510C, 8270D	T	1 mL					
480-141245-A-4 MSD	MW-17	3510C, 8270D	T	1 mL	480-141245-A-4 MS lost, new volume used				
480-141245-B-4	MW-17	3510C, 8270D	T	1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Batch Number: 433136 Batch Start Date: 09/06/18 14:08 Batch Analyst: Gruning, Anton T

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid Used for pH Adjustment ID	4825878
Base Used to Adjust pH ID	4763766
Analyst ID - Concentration	AG
Analyst ID - Extraction	AG
Method/Fraction	3510C/8270D
Na2SO4 ID	4849345
Sodium Bicarbonate ID	120911
NaCl ID	4631820
Prep Solvent ID	4843260
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	AG
Analyst ID - Spike Witness Analyst	AG
Sufficient Volume for Batch QC	Yes
Vial Lot Number	00257565

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-141245-1

SDG No.:

Project: NYSEG Cortland-Homer Groundwater Project

Client Sample ID	Lab Sample ID
MW-12	480-141245-1
DUP-090518	480-141245-2
MW-28S	480-141245-3

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-12 Lab Sample ID: 480-141245-1

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG ID.:

Matrix: Water Date Sampled: 09/05/2018 08:30

Reporting Basis: WET Date Received: 09/06/2018 01:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	7.5	0.20	0.10	mg/L			20	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP-090518 Lab Sample ID: 480-141245-2

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG ID.:

Matrix: Water Date Sampled: 09/05/2018 00:00

Reporting Basis: WET Date Received: 09/06/2018 01:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.21	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-28S
Lab Sample ID: 480-141245-3
Lab Name: TestAmerica Buffalo
Job No.: 480-141245-1
SDG ID.:
Matrix: Water
Date Sampled: 09/05/2018 09:30
Reporting Basis: WET
Date Received: 09/06/2018 01:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.21	0.010	0.0050	mg/L			1	9012B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Analyst: CLT Batch Start Date: 09/12/2018

Reporting Units: mg/L Analytical Batch No.: 434080

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:03	Cyanide, Total	0.263	0.250	105	90-110		CN CCV_00936
2	CCB	14:05	Cyanide, Total	ND					
13	CCV	14:21	Cyanide, Total	0.264	0.250	106	90-110		CN CCV_00936
14	CCB	14:22	Cyanide, Total	0.00612				J	
25	CCV	14:38	Cyanide, Total	0.259	0.250	104	90-110		CN CCV_00936
26	CCB	14:39	Cyanide, Total	ND					
32	CCV	14:48	Cyanide, Total	0.255	0.250	102	90-110		CN CCV_00936
33	CCB	14:49	Cyanide, Total	ND					

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 434080	Date: 09/12/2018 14:06	Prep Batch: 433997	Date: 09/12/2018 09:00				
9012B	MB 480-433997/1-A	Cyanide, Total	ND		mg/L	0.010	1

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 434080	Date: 09/12/2018 14:08		Prep Batch: 433997			Date: 09/12/2018 09:00					
						LCS Source: LCS 400_00034					
9012B	LCS 480-433997/2-A	Cyanide, Total	0.406		mg/L	0.400	102	90-110			
Batch ID: 434080	Date: 09/12/2018 14:09		Prep Batch: 433997			Date: 09/12/2018 09:00					
						LCS Source: CN LCS 250_00038					
9012B	LCS 480-433997/3-A	Cyanide, Total	0.242		mg/L	0.250	97	90-110			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-141245-1

SDG Number:

Matrix: Water Instrument ID: LACHAT2

Method: 9012B MDL Date: 01/29/2010 00:00

Prep Method: 9012B

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-141245-1

SDG Number:

Matrix: Water Instrument ID: LACHAT2

Method: 9012B XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.005

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-433997/1-A	09/12/2018 09:00	433997		6	6
LCS 480-433997/2-A	09/12/2018 09:00	433997		6	6
LCS 480-433997/3-A	09/12/2018 09:00	433997		6	6
480-141245-1	09/12/2018 09:00	433997		6	6
480-141245-2	09/12/2018 09:00	433997		6	6
480-141245-3	09/12/2018 09:00	433997		6	6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Instrument ID: LACHAT2 Method: 9012B

Start Date: 09/12/2018 14:03 End Date: 09/12/2018 14:49

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-434080/1	1		14:03	X																			
CCB 480-434080/2	1		14:05	X																			
MB 480-433997/1-A	1	T	14:06	X																			
LCS 480-433997/2-A	1	T	14:08	X																			
LCS 480-433997/3-A	1	T	14:09	X																			
ZZZZZZ			14:11																				
ZZZZZZ			14:12																				
ZZZZZZ			14:14																				
ZZZZZZ			14:15																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
480-141245-2	1	T	14:19	X																			
CCV 480-434080/13	1		14:21	X																			
CCB 480-434080/14	1		14:22	X																			
480-141245-3	1	T	14:24	X																			
ZZZZZZ			14:25																				
ZZZZZZ			14:26																				
ZZZZZZ			14:28																				
ZZZZZZ			14:29																				
ZZZZZZ			14:31																				
ZZZZZZ			14:32																				
ZZZZZZ			14:34																				
ZZZZZZ			14:35																				
ZZZZZZ			14:37																				
CCV 480-434080/25	1		14:38	X																			
CCB 480-434080/26	1		14:39	X																			
ZZZZZZ			14:41																				
ZZZZZZ			14:42																				
480-141245-1	20	T	14:44	X																			
ZZZZZZ			14:45																				
ZZZZZZ			14:47																				
CCV 480-434080/32	1		14:48	X																			
CCB 480-434080/33	1		14:49	X																			

Prep Types

T = Total/NA

434080

Solutions:

Potassium Phosphate Buffer	**4856841 Exp. 03/11/2019**
Pyridine Barbituric Acid	**4854566 Exp: 09/17/2018**
Chloramine-T	**4857585 Exp. 09/12/2018**
50ppm INT STD	**4855577 Exp. 09/18/2018**
CN .25ppm CCV Std	**4857764 Exp. 09/12/2018**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/SD = 0.1mg/L

Cyanide Curve Lachat 2: 09/12/2018
Curve Standard(50 ppm) : 4855577
ICV (0.250 ppm): 433785/2

434080

Author: BufLachat2

Date : 9/12/2018

Original Run Filename: OM_9-12-2018_02-03-13PM.OMN Created: 9/12/2018 2:03:13 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_9-12-2018_02-03-13PM.OMN Last Modified: 9/12/2018 2:53:01 PM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.263	12.4	0.365	9/12/2018@2:03:55 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-8.68e-5	2.25e-3	-2.02e-3	9/12/2018@2:05:22 PM
	Known Conc:		0.00			
MB 480-433997/1-A	1	1	-6.15e-4	-0.0226	0.0131	9/12/2018@2:06:49 PM
LCS 480-433997/2-A	1	2	0.406	19.1	0.652	9/12/2018@2:08:16 PM
LCS 480-433997/3-A	1	3	0.242	11.4	0.336	9/12/2018@2:09:42 PM
CCVL 480-433997/4-A	1	4	0.102	4.80	0.141	9/12/2018@2:11:10 PM
480-141221-F-1-B	1	5	0.0946	4.46	0.132	9/12/2018@2:12:36 PM
480-141221-F-1-C DU	1	6	0.0964	4.54	0.134	9/12/2018@2:14:03 PM
480-141331-A-1-A	1	7	1.85e-3	0.0932	3.22e-3	9/12/2018@2:15:29 PM
480-141331-A-1-B MS	1	8	6.16e-4	0.0353	1.67e-3	9/12/2018@2:16:55 PM
480-141245-A-1-C	1	9	5.28	248	6.66	9/12/2018@2:18:22 PM
480-141245-A-2-B	1	10	0.209	9.83	0.300	9/12/2018@2:19:48 PM
CCV	1	S9	0.264	12.4	0.366	9/12/2018@2:21:14 PM
	Known Conc:		100			
CCB	1	S10	6.12e-3	0.294	0.0113	9/12/2018@2:22:40 PM
	Known Conc:		100			
480-141245-A-3-B	1	11	0.209	9.86	0.292	9/12/2018@2:24:06 PM
480-141277-A-3-B	1	12	0.0163	0.772	0.0201	9/12/2018@2:25:32 PM
480-141298-I-1-A	1	13	3.64e-3	0.178	5.87e-3	9/12/2018@2:26:58 PM
480-141299-G-1-A	1	14	8.83e-3	0.422	0.0263	9/12/2018@2:28:23 PM
480-141308-F-1-B	1	15	0.110	5.19	0.199	9/12/2018@2:29:49 PM
480-141344-C-5-A	1	16	4.41e-3	0.214	5.77e-3	9/12/2018@2:31:16 PM
480-141344-C-5-B;na	1	17	1.13e-3	0.0594	2.22e-3	9/12/2018@2:32:43 PM
480-141344-C-6-A	1	18	-2.81e-4	-6.89e-3	0.0103	9/12/2018@2:34:10 PM
480-141344-C-6-B;na	1	19	3.70e-3	0.180	6.47e-3	9/12/2018@2:35:37 PM
480-141449-B-5-C	1	20	4.05e-3	0.197	5.38e-3	9/12/2018@2:37:03 PM
CCV	1	S9	0.259	12.2	0.363	9/12/2018@2:38:29 PM
	Known Conc:		100			
CCB	1	S10	-7.79e-4	-0.0303	1.16e-3	9/12/2018@2:39:55 PM
	Known Conc:		100			
480-141449-B-5-D MS	1	21	0.106	4.98	0.145	9/12/2018@2:41:22 PM
480-141369-A-2-A	1	22	4.97e-3	0.240	7.06e-3	9/12/2018@2:42:48 PM
480-141245-A-1-C^20	1	23	0.374	17.6	0.467	9/12/2018@2:44:15 PM
1	1	24	0.251	11.8	1.25	9/12/2018@2:45:41 PM
NaOH	1	25	-3.42e-3	-0.155	-3.91e-3	9/12/2018@2:47:07 PM
CCV	1	S9	0.255	12.0	0.354	9/12/2018@2:48:33 PM
	Known Conc:		100			
CCB	1	S10	-1.44e-3	-0.0613	-2.23e-3	9/12/2018@2:49:59 PM
	Known Conc:		100			

250 ml → 5 ml

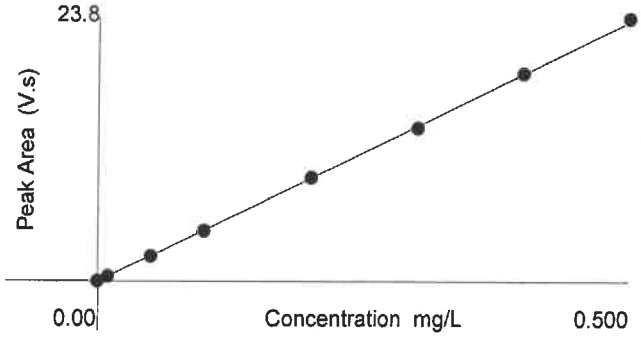
Author: BufLachat2

Date : 9/12/2018

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	23.8	0.714	0.0	-1.3	0.506	9/12/2018	8:14:38 AM
2	0.400	1	18.9	0.564	0.0	-0.2	0.401	9/12/2018	8:16:04 AM
3	0.300	1	13.9	0.415	0.0	1.4	0.296	9/12/2018	8:17:30 AM
4	0.200	1	9.43	0.282	0.0	-0.2	0.200	9/12/2018	8:18:57 AM
5	0.100	1	4.61	0.138	0.0	2.1	0.0979	9/12/2018	8:20:24 AM
6	0.0500	1	2.31	0.0692	0.0	2.0	0.0490	9/12/2018	8:21:52 AM
7	0.0100	1	0.464	0.0143	0.0	2.7	9.73e-3	9/12/2018	8:23:20 AM
8	0.00	1	0.0374	1.47e-3			6.61e-4	9/12/2018	8:24:46 AM

Figure : 1 (Cyanide)



Area = 47.0 * Conc + 6.60e-3
Conc = 0.0213 * Area - 1.35e-4
Correlation Coefficient (r) = 0.99998

Weighting : 1/x

Historical Data Summary Report

For Batch 434080

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-141277-A-3-B	DSN-201-1 Grab	335.4	Total Cyanide	Total/NA	mg/L	8	1.0	0.016	☐	0 - 0.051	☐	0 - 0.052
480-141298-I-1-A	MHOL1	335.4	Total Cyanide	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.01	☐	0 - 0.011
480-141308-F-1-B	Semiannual PVSC L	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	0.11 *17	☑	0 - 0.047	☑	0 - 0.035

433849

Analyst: AD Date: 9-12-18
TALS Batch #: 433997

TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook Logbook # A17-01-51

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6				
LCS	@400	2			6 ul	✓	
LCS	@250	3			6 ul	✓	
CCVL	@100	4			6 ul	✓	
141221	F1	5					
1	F1 DU	6					
141331	A1	7					
1	A1 MS	8			60 ul	✓	
141245	A1	9					
1	A2	10					
1	A3	11					
141277	A3	12					
141298	I1	13					
141299	G1	14					
141308	F1	15					
141344	C5	16					
1	C5(A)	17					
1	C6	18					
1	C6(A)	19					
141449	B5	20					
1	B5 MS	21			60 ul	✓	
141369	A2	22					

Start Time: 0900
End Time: 1042

Cl_2 Check: ✓
H_2S Check: ✓

0.400 mg/L Complex CN LCS: 4855578
0.250 mg/L Complex CN LCS: 4855579
0.100 mg/L Free CN CCVL: 4855580
10 ppm Complex CN MS: 4855581
10 ppm Free CN MS: NA
ERA Soil Lot: NA

1.0 N NaOH: 4609217
7.11M H_2SO_4 / 0.79M $MgCl_2$: 4826319
H_3NSO_3: 4801845
$NaCH_3COO$: NA
$ZnCH_3COO$: NA

SimpleDist Block A: Set Temp. (°C): 120.0 Measured Start Temp. (°C): 119.3 Measured End Temp. (°C): 119.5

Reviewed By: AD Date: 9-12-18

Cyanide Micro Distillation BF-WC-CMDL-032
Rev. 0 October 10, 2017

159/200

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Batch Number: 433997 Batch Start Date: 09/12/18 09:00 Batch Analyst: Dee, Austin E

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN LCS 250 00038	LCS 400 00034		
MB 480-433997/1		9012B, 9012B		6 mL	6 mL				
LCS 480-433997/2		9012B, 9012B		6 mL	6 mL		6 mL		
LCS 480-433997/3		9012B, 9012B		6 mL	6 mL	6 mL			
480-141245-A-1	MW-12	9012B, 9012B	T	6 mL	6 mL				
480-141245-A-2	DUP-090518	9012B, 9012B	T	6 mL	6 mL				
480-141245-A-3	MW-28S	9012B, 9012B	T	6 mL	6 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-141245-1

SDG No.:

Batch Number: 434080 Batch Start Date: 09/12/18 14:03 Batch Analyst: Thomas, Christine L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 00936			
CCV 480-434080/1		9012B		5 mL	5 mL	# mL			
CCB 480-434080/2		9012B		5 mL	5 mL				
MB 480-433997/1-A		9012B		5 mL	5 mL				
LCS 480-433997/2-A		9012B		5 mL	5 mL				
LCS 480-433997/3-A		9012B		5 mL	5 mL				
480-141245-A-2-B	DUP-090518	9012B	T	5 mL	5 mL				
CCV 480-434080/13		9012B		5 mL	5 mL	# mL			
CCB 480-434080/14		9012B		5 mL	5 mL				
480-141245-A-3-B	MW-28S	9012B	T	5 mL	5 mL				
CCV 480-434080/25		9012B		5 mL	5 mL	# mL			
CCB 480-434080/26		9012B		5 mL	5 mL				
480-141245-A-1-C ^20	MW-12	9012B	T	5 mL	5 mL				
CCV 480-434080/32		9012B		5 mL	5 mL	# mL			
CCB 480-434080/33		9012B		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

285960

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

480-141245 COC

Client Contact	Project Manager: John Brussel	Site Contact:	Date:	COC No: 1
Company Name: Arcadis	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: One Lincoln Center 110 W. Fayette St	Analysis Turnaround Time			Sampler:
City/State/Zip: Syracuse NY 13202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 315-671-9441	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: NYSEG Cortland/Homer	☐ 1 week			
Site: Homer - Cortland	☐ 2 days			Job / SDG No.:
PO# B0013123.1801.00001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Cyanide	~~Tot~~ BTEX	PAHs	Sample Specific Notes:
MW-12	9/5/18	0830	G	GW	1	N	N	1			
DUP-090518	9/5/18	MA	G	GW	1			1			
MW-28S	9/5/18	0930	G	GW	1			1			
MW-17	9/5/18	1200	G	GW	1		Y		3	6	
								3	2	6	

RE 9-5-18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other none

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

#1

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 1.6 Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
N. Griffith	Arcadis	9/5 15:00	RE English	Syr	9-5-18, 15:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
RE English	Syr 9-5-18	19:00		DHS	9-6-18 0100
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

483325 - Syracuse SC
09/20/2018

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-141245-1

Login Number: 141245

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	