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Date: March 5, 2021
Our Ref: 30045314 #10
Subject: 2020 Post-Construction Monitoring Report
Binghamton Court Street Former Manufactured Gas Plant Site
NYSDEC Site No. 7-04-031

Dear Mr. Starr,

On behalf of the New York State Electric & Gas Corporation (NYSEG), this letter summarizes the results of the Binghamton Court Street Former Manufactured Gas Plant (MGP) site (the site) 2020 post-remediation monitoring.

Arcadis of New York, Inc. (Arcadis) conducted the 2020 monitoring in accordance with the October 2019 Draft Site Management Plan prepared by GEI (Draft SMP). As indicated in the Draft SMP, post-remediation groundwater monitoring activities are used to generally assess the performance and effectiveness of the remedy and to specifically achieve the following objectives:

- Confirm that groundwater-flow patterns characterized during the remedial investigation have not changed appreciably.
- Document the quality of groundwater entering Operable Unit No. (OU-1) from the sand and gravel unit.
- Document that the MGP-related dissolved phase plume remains stable or is shrinking.

Additionally, as indicated in the Draft SMP, periodic riverbank monitoring is conducted to evaluate the stability of the restored near-shore river bottom and adjacent riverbank. Note that OU-2 bank vegetation monitoring activities and results were previously documented in the December 21, 2020 Transloading Area Restoration Monitoring Report. For reference, interim remedial measures (IRMs) at OU-1 were completed in 2001, 2003, 2006 and 2011/2012. The IRM for OU-2 was completed in 2018/2019, and post-construction monitoring was initiated in 2020.

The Draft SMP is currently being updated based on New York State Department of Environmental Conservation (NYSDEC) comments on the Draft SMP, as well as NYSDEC comments on the August 2020 Draft Focused Feasibility Study (FFS) Report for Operable Unit No. 2 (OU-2). A final SMP will be provided following NYSDEC's approval of the OU-2 FFS.

Monitoring and sampling activities completed in 2020 (as well as the associated results) are presented below, followed by conclusions and recommendations based on the monitoring/sampling results.

2020 Monitoring and Sampling

Field activities associated with the 2020 monitoring and sampling consisted of the following:

- Conducting gauging to assess the presence/absence of non-aqueous phase liquid (NAPL).
- Collecting and submitting groundwater samples for laboratory analysis to assess groundwater quality.
- Conducting a site-wide inspection to assess the condition and effectiveness of the site cover system.
- Conducting monthly bank inspections at the OU-2 transloading area to assess bank stability.

Monitoring and sampling activities details are presented below. Monitoring well locations are shown on Figure 1.

NAPL and Water Level Gauging

Arcadis conducted NAPL and water level gauging on November 23, 2020. NAPL gauging activities/results and groundwater flow/elevation information is presented below.

NAPL Gauging Activities and Results

Field personnel used an oil-water interface probe to check for accumulated NAPL and measure water levels and a weighted tape to measure depth to bottom of each well in the monitoring well network.

2020 NAPL gauging results for NAPL barrier wall recovery wells (RWs) and NAPL monitoring wells NMW-01 and NWM-02 are presented in Table 1. For reference, gauging results from January 2007 to December 2017 (i.e., the last NAPL gauging event) are also included in Table 1. NAPL gauging results for the remaining upgradient, side gradient, and sentinel wells are presented in Table 2, which also includes gauging results from November 2004 to December 2017 for reference.

Recoverable quantities of NAPL have not accumulated in any of the gauged wells (since the last gauging event completed in 2017). Additional NAPL gauging observations/findings consist of the following:

- RW-4 through RW-7, and NMW-4 could not be located. Gravel/fill was added to the site during construction of the new gas regulator building; wells are assumed to be buried under this new material.
- NMW-1, while not part of the well network, was erroneously gauged. NAPL gauging results are included in Table 1.
- MW01-17S was dry (i.e., the well is filled with approximately 7.5 feet of sediment/silt).
- PZ03-02A and PZ03-02D were not gauged. The piezometer pair is located in Court Street and have been damaged: covers and j-plugs were missing, and casings were blocked by road debris and asphalt.
- PZ03-06A, PZ03-06B, PZ03-06C, PZ03-06D, PZ03-07A, PZ03-07B, PZ03-07C, PZ03-07D, PZ03-08A, PZ03-08B, PZ03-08C, PZ03-08D, and PZ01-02 could not be located and therefore, were not gauged. The piezometers are located in Court Street and have been paved over. Historically, measurable NAPL has been observed in wells PZ01-02, PZ-03-06A, and PZ03-06B.
- PZ03-01D (located in the grass area near Tompkins and Court Streets) could not be located and therefore, was not gauged.

Specific recommendations for repairing/locating wells/piezometers included in the monitoring well network (as identified in the Draft SMP) are presented in the Summary and Recommendations section of this letter report.

Groundwater Elevation and Flow

Field personnel conducted synoptic water level measurements during the groundwater sampling event, in conjunction with NAPL gauging. Depth-to-water measurements were taken from surveyed marks on the top of the inner well casings and converted to elevations. Groundwater elevation data are summarized in Tables 1 and 2. Water table and sand and gravel unit potentiometric surface maps for the November 2020 monitoring event are included as Figures 2 and 3, respectively. For comparison, water table and sand and gravel unit potentiometric surface maps from the 2002 Remedial Investigation (RI) are included as Attachment 1. When comparing the 2002 and 2020 maps, the following should be considered:

- The 2002 maps were drawn using a considerable number of data points; many of these previous monitoring wells and piezometers were removed during remedial construction activities.
- The 2002 water table map represents water table elevations prior to installing the NAPL barrier wall. The NAPL barrier wall is comprised of a permeable gravel-filled trench keyed into low-permeability till, with several short segments composed of low-permeability jet-grout panels. A high-density polyethylene (HDPE) curtain lines the downgradient side of the gravel-filled portions of the barrier, extending below the water table. The grout panels and HDPE curtain serve as barriers to groundwater flow. Accordingly, the gravel-filled trench, grout panels, and HDPE curtain alter groundwater flow patterns locally.

Therefore, both historical flow patterns and inferred groundwater flow effects (i.e., caused by the NAPL barrier wall) were considered when preparing Figures 2 and 3.

The November 2020 configuration of the water table surface (Figure 2) is similar to that mapped in 2002. Groundwater is mounded atop the underlying silt-and-clay unit near the center of the site. That groundwater moves radially away from the mound, either 1) spilling off the eastern and western edges of the silt-and-clay unit or 2) entering the gravel panels of the NAPL barrier wall, where groundwater moves downward beneath the HDPE curtain and into the underlying sand-and-gravel unit. Downgradient of the NAPL barrier wall and beneath Court Street, shallow groundwater generally moves southward toward the flood wall and moves downward beneath the flood wall, eventually discharging into the river.

The November 2020 configuration of the sand-and-gravel unit potentiometric surface (Figure 3) is also similar to that mapped in 2002. The relatively high permeability of the sand-and-gravel unit results in a surface that slopes gently southward toward the river. Flow in the sand-and-gravel unit is primarily horizontal; except near the river where groundwater moves upward, discharging into the river.

Groundwater Sampling Activities and Results

Arcadis conducted groundwater sampling on November 23 and 24, 2020. Groundwater sampling activities and associated analytical results are summarized below.

Groundwater Sampling Activities

Arcadis field personal collected groundwater samples using low-flow groundwater purging and sampling techniques. As indicated in the Draft SMP, the following monitoring wells/piezometers require analytical sampling: MW93-05D, MW97-07, MW97-14D, MW97-14S, MW01-17D, MW01-17S, PZ93-1, PZ03-1D, PZ03-06A, PZ03-06B. However, the following monitoring wells/piezometers were not sampled:

- MW01-17S was dry; as indicated above, the well is filled with sediment/silt.
- PZ03-01D and MW97-7 were misidentified/not located in the field. Samples were erroneously collected and analyzed at MW01-07R and NMW-01, respectively.
- PZ03-06A, PZ03-06B were not located; these piezometers are located in Court Street and as indicated above, the piezometers have been paved over and are inaccessible.

In accordance with the Draft SMP, groundwater samples were submitted to Eurofins TestAmerica for analysis for:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C.
- Polycyclic aromatic hydrocarbons (PAHs) using USEPA SW-846 Method 8270D.
- Total cyanide using USEPA SW-846 method 9012B.

Field personnel also collected and submitted one set of quality assurance/quality control (QA/QC) samples, including a field duplicate, matrix spike, and matrix spike duplicate for laboratory analysis. Groundwater sampling logs are provided as Attachment 2.

Groundwater Quality

Eurofins TestAmerica reported analytical results using NYSDEC Analytical Service Protocol (ASP) Category B data deliverables; the laboratory report is included as Attachment 3. Arcadis validated the data; a Data Usability Summary Report (DUSR) is included as Attachment 4 and validated analytical results are summarized in Table 3.

Analytical results presented in Table 3 are compared to NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1) Class GA groundwater quality standards/guidance values. Analytical results indicate the following:

- PZ93-1 – BTEX and PAH1 concentrations exceeded their Class GA groundwater quality standards or guidance values, respectively. As this piezometer is screened across NAPL-containing material, these results are expected.
- NMW-01 – Benzene, xylenes (total) exceeded their respective Class GA groundwater quality standards. Additionally, Acenaphthene and naphthalene concentrations slightly exceeded their respective Class GA guidance values. As this well is also screened across NAPL-containing material, these results are expected. As indicated above, this well was erroneously sampled and is not part of the monitoring well network.
- Cyanide was not detected at concentrations exceeding its Class GA groundwater quality standard in any of the samples analyzed.

Monitoring wells MW93-05D, MW97-14S, MW97-14D, MW01-07R, and MW01-17D were sampled during both the RI and the 2020 post-construction monitoring event. For comparison, the most recent groundwater analytical results from the RI are also included on Table 3. As the remaining monitoring wells and piezometers are located near or beyond the OU-1 boundary, consistent with the RI, analytical results for the 2020 samples indicate that constituents of concern (COC) are not detected in groundwater at “off-site” locations.

As noted above, piezometer PZ93-1 and NAPL monitoring well NMW-01 are screened across NAPL-containing material and COC concentrations exceed Class GA groundwater standards and guidance values, as expected. Although piezometer PZ93-1 was not sampled during the RI, monitoring MW97-13S (formerly located

[1] Acenaphthene, fluorene, naphthalene, and phenanthrene.

approximately 90 feet south and upgradient of piezometer PZ93-1) was sampled and contained total BTEX and total PAH concentrations greater than 34,000 and 10,000 micrograms per liter (ug/L) (see RI Figure 13 included in Attachment 1). The analytical results for the 2020 sample collected from PZ93-1 indicate that COC concentrations are decreasing in shallow groundwater in the central portion of the site.

Waste Management

Arcadis contained and staged investigation-derived waste generated during the groundwater sampling and NAPL gauging activities in appropriately labeled NYSDOT-approved 55-gallon drums for off-site treatment/disposal by NYSEG's waste disposal vendor.

Site Inspection

Arcadis conducted a site inspection to evaluate site usage, general site conditions, and the condition of the cover system, in accordance with the Draft SMP. As indicated on the Site Inspection Form (included as Attachment 5), the asphalt and gravel cover system were intact with no evidence of intrusive activities.

Additionally, during NAPL gauging and groundwater sampling activities, Arcadis completed visual inspections of the existing monitoring wells, piezometers, and NAPL recovery wells. Notable observations presented above, as well as additional observations, consist of the following:

- NAPL Recovery Wells:
  - Vaults for recovery wells RW-2, RW-3, RW-8 through RW-15, RW-21, and RW-22 have damaged lids, do not close properly, and/or have settled against the well casings.
  - RW-4 through RW-7 and NMW-4 could not be located; as indicated above, the wells are assumed to be buried beneath the new gravel cover associated with new gas regulator building.
- Upgradient and Side-Gradient Wells:
  - MW97-14S – missing J-plug and cover bolts.
  - MW97-14D – curb box has shifted/settled and PVC casing is broken.
  - MW17-01S – as indicated above, the well is blocked by accumulated sediment/silt and could not be sampled/gauged.
- Sentinel Wells:
  - PZ03-01D and MW97-7 – as indicated above, were misidentified/not located in the field; their overall condition is unknown.
  - PZ03-02A and PZ03-02D – as indicated above, covers were missing from curb box and well casings were filled with road debris and asphalt.
  - Piezometer clusters PZ03-06 through PZ03-08 – as indicated above, the piezometers could not be located and have been paved over.

All other wells and piezometers included in the monitoring well network (as identified in the Draft SMP) were found to be in satisfactory condition.

Riverbank Monitoring

In accordance with the Draft SMP, monthly riverbank inspections were completed from March 2020 to December 2020. As documented in the December 21, 2020 Transloading Area Restoration Monitoring Report, the restored

riverbank area erosion controls are in place and functioning. No signs of riverbank erosion, settlement, or soil instability were observed.

Summary and Recommendations

Based on the results of the 2020 monitoring activities, a summary of the observed site conditions is presented below, followed by recommendations for addressing the monitoring well network and a schedule for completing monitoring activities in 2021.

Summary and Conclusions

Based on the 2020 post-construction monitoring results:

- NAPL is not migrating off-site and does not appear to be migrating on-site, as NAPL has not reached the NAPL barrier wall in the nearly 15 years since the wall was installed (i.e., in 2006).
- Post-remediation groundwater flow directions are generally consistent with pre-remediation conditions; except near the NAPL barrier wall, where shallow groundwater in the fill and silt-and-clay unit generally enters the gravel-filled portions of the trench and moves downward into the sand-and-gravel unit, as anticipated/ designed. Consistent with pre-remediation conditions, groundwater in the sand-and-gravel unit moves southward and discharges into the Susquehanna River. Shallow groundwater downgradient of the NAPL barrier wall also discharges to the Susquehanna River.
- Consistent with the RI, where groundwater samples were collected in 2020, COCs are not detected in groundwater samples collected from monitoring wells and piezometers beyond the OU-1 boundary. Additionally, the quality of groundwater in the central portion of the site has improved since completion of the remedy.
- Site cover system is intact and functioning, with no evidence of intrusive activities. Several monitoring wells/ piezometers were damaged or not located. Specific recommendations for repairing/locating wells and piezometers that are part of the well network are presented below.
- The restored riverbank area shows no signs of erosion, settlement, or instability.

Recommendations

As indicated above, several monitoring wells/piezometers that are part of the monitoring well network were damaged, unusable, or not located. Recommendations for redevelopment, repairs, or decommissioning/ abandonment of the affected wells/piezometers consist of the following:

- Redevelopment – Groundwater sampling is required at MW01-17S (located to the west of the site). As indicated above, the well screen is assumed to be blocked by accumulated sediment/silt. NYSEG proposes to redevelop this well for inclusion in the next groundwater sampling event (i.e., in 2025).
- Repairs
  - The well vaults for NAPL Barrier wall recovery wells RW-2, RW-3, RW-8 through RW-15, RW-21, and RW-22 are damaged or have settled. NYSEG will complete any necessary well repairs to preserve the recovery wells and will install well protection measures (i.e., bollards) to prevent any future damage.

  - The curb boxes for side-gradient wells MW97-14D and MW97-14S (located to the east of the site) have missing covers and have settled. NYSEG will repair/replace the curb boxes.
- Locate
  - Monitoring well MW97-7 and piezometer PZ03-01D (located at the southeast corner of Tompkins Street and Court Street) were not found. NYSEG will attempt to locate these wells and include these wells as part of the next NAPL gauging event (i.e., in 2021).
  - NAPL barrier wall recovery wells RW-4 through RW-8 and NAPL monitoring well NMW-4 are assumed to be located beneath a gravel cover installed adjacent to the newly constructed gas regulator building. NYSEG will attempt to locate and uncover these wells and include these wells as part of the next NAPL gauging event (i.e., in 2021).
- Well Decommissioning/Abandonment
  - Piezometer clusters PZ03-06, PZ03-07, and PZ03-08, as well as piezometer PZ01-02, are located in Court Street at the southeast corner of the site. Gauging/sampling activities have not occurred at the site since 2017 and this portion of Court Street has since been repaved. These piezometers were unable to be located and are assumed to have been paved over or destroyed.
  - Piezometer clusters PZ03-02 through PZ03-05 are also located in Court Street, south of the site, and were found in various states of disrepair. Given the difficulty in maintaining these piezometers (i.e., curb boxes are routinely damaged by traffic/plows) and safety concerns during gauging/sampling activities, NYSEG proposes to decommission these piezometers using the grout in-place method, in accordance with the NYSDEC's Groundwater Monitoring Well Decommissioning Policy (CP-43).
  - Bedrock monitoring well MW01-07R, located at the southeast corner of Tompkins Street and Court Street, is not part of the monitoring well network. Therefore, NYSEG also proposes to decommission this well using the grout in-place method in accordance with CP-43.

Schedule

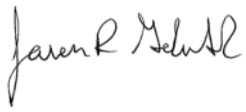
Consistent with the monitoring and reporting requirements presented in the Draft SMP:

- The monitoring/piezometer redevelopment, repair, and decommissioning activities presented herein are anticipated to be completed in Q3 2021, prior to the annual NAPL gauging event (with NYSDEC concurrence).
- The site cover inspection and NAPL monitoring will continue to be completed on an annual basis; tentatively scheduled for Q3 or Q4 2021.
- Based on NYSDEC comments on the Draft FFS, sheen monitoring will be completed quarterly for the next 2 years (i.e., 2021 and 2022). 2021 sheen monitoring is scheduled for February, May, August, and November.
- The next groundwater sampling event will occur in 2025 (i.e., Post-Construction Year 5).

Please contact Tracey Blazicek of NYSEG at 585.484.6839 or tlblazicek@nyseg.com with any questions or comments.

Justin Starr, P.G.
New York State Department of Environmental Conservation
March 5, 2021

Sincerely,
Arcadis of New York, Inc.



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CC. Tracy Blazicek, CHMM, NYSEG
Keith White, PG, Arcadis

Enc: Table 1 – Recovery Well NAPL Gauging and Groundwater Elevation Summary
Table 2 – Upgradient, Side-Gradient, and Sentinel NAPL Gauging and Groundwater Elevation Summary
Table 3 – Groundwater Sample Analytical Results Summary

Figure 1 – Monitoring Well Plan
Figure 2 – Water Table Surface Map
Figure 3 – Sand and Gravel Potentiometric Surface Map

Attachment 1 – Select RI Figures
Attachment 2 – Groundwater Sampling Logs
Attachment 3 – Groundwater Lab Report
Attachment 4 – Data Usability Summary Report
Attachment 5 – Site Inspection Form

Tables

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

NAPL RECOVERY WELLS									
						LNAPL/DNAPL			
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL)	Depth to Bottom (ft bTOC)	Well Bottom Elevation (FAMSL)	Sediment Thickness (ft)	Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	Comments/Observations
NMW-1[1]									
11/23/20	18.80	830.30	41.02	808.08	2.43	--	--	--	
Top of Casing (FAMSL) =			849.10						
Well bottom elev. (installed; FAMSL)			805.65						
Installed Well Depth (ft) =			43.45						
NMW-2									
11/24/04	14.47	831.72	42.66	803.53	0.84	--	--	--	
08/09/07	15.10	831.09	42.78	803.41	0.72	--	--	--	
03/18/08	12.26	833.93	42.75	803.44	0.75	--	--	--	
11/19/08	14.59	831.60	42.95	803.24	0.55	--	--	--	
05/29/09	13.94	832.25	43.02	803.17	0.48	--	--	--	
11/09/09	14.17	832.02	42.80	803.39	0.70	--	--	--	
05/28/10	15.64	830.55	42.70	803.49	0.80	--	--	--	
11/23/10	13.85	832.34	42.76	803.43	0.74	--	--	--	
06/02/11	12.82	833.37	42.72	803.47	0.78	--	--	--	
02/15/12	14.34	831.85	42.64	803.55	0.86	--	--	--	
06/15/12	14.52	831.67	42.76	803.43	0.74	--	--	--	
11/20/12	14.54	831.65	42.91	803.28	0.59	--	--	--	
05/31/13	13.02	833.17	42.65	803.54	0.85	--	--	--	
11/26/13	14.78	831.41	42.78	803.41	0.72	--	--	--	
12/02/14	13.49	832.70	42.71	803.48	0.79	--	--	--	
12/17/15	14.79	831.40	43.33	802.86	0.17	--	--	--	
12/27/16	14.13	832.06	43.35	802.84	0.15	--	--	--	
12/21/17	6.32	839.87	43.36	802.83	0.14	--	--	--	
11/23/20	15.04	831.15	43.38	802.81	0.12	--	--	--	Hard bottom
Top of Casing (FAMSL) =			846.19						
Well bottom elev. (installed; FAMSL)			802.69						
Installed Well Depth (ft) =			43.50						

Notes:
1. Not included as part of the monitoring well network.
2. Elevations referenced to the NAVD 88 Datum.
3. Surface elevation = the elevation of the vault lid or curb box lid.
4. Well bottom elevations are approximate.

FAMSL = Feet Above Mean Sea Level.
TOC = Top of Casing.
-- = NAPL not present.
NR = Not Recorded.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	11/24/2004					1/28/2005					8/9/2007				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft-TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft-TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	17.43	24.86	831.93	--	--	15.80	24.65	833.56	--	--	18.09	24.83	831.27	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.46	841.86	10.03	20.58	831.43	10.00	0.03	8.31	20.6	833.15	8.28	0.03	10.57	17.40	830.89	--	--
PZ03-01D	847.49	848.1	15.78	46.72	831.71	--	--	14.17	46.5	833.32	--	--	16.39	46.70	831.10	--	--
PZ03-02A	845.96	846.2	14.08	15.35	831.88	--	--	12.25	15.1	833.71	--	--	Dry	14.67	--	--	--
PZ03-02D	845.97	846.2	14.28	54.72	831.69	--	--	12.35	54.5	833.62	--	--	14.82	54.13	831.15	--	--
PZ03-03A	843.50	843.86	10.71	10.96	832.79	--	--	10.15	10.9	833.35	--	--	8.68	8.68	834.82	--	--
PZ03-03B	843.53	843.86	11.78	22.2	831.75	--	--	10.1	22.1	833.43	--	--	12.51	21.90	831.02	--	--
PZ03-03D	843.59	843.86	11.89	49.41	831.70	--	--	NA	NA	--	--	--	12.56	48.10	831.03	--	--
PZ03-04A	842.76	843.14	10.33	14.60	832.43	--	--	9.25	14.60	833.51	--	--	10.97	14.60	831.79	--	--
PZ03-04B	842.68	843.14	10.96	22.06	831.72	--	--	9.52	22.06	833.16	--	--	11.70	21.19	830.98	--	--
PZ03-04D	842.75	843.14	11.07	41.62	831.68	--	--	9.46	41.60	833.29	--	--	11.75	41.50	831.00	--	--
PZ03-05A	842.37	842.68	10.64	12.38	831.73	--	--	9.23	12.35	833.14	--	--	6.20	6.20	836.17	--	--
PZ03-05B	842.32	842.63	10.66	15.92	831.66	--	--	9.33	15.95	832.99	--	--	11.42	15.76	830.90	--	--
PZ03-05C	842.40	842.68	10.75	27.59	831.65	--	--	9.15	27.60	833.25	--	--	11.48	24.67	830.92	--	--
PZ03-05D	842.37	842.68	10.61	44.80	831.76	--	--	9.93	44.80	832.44	--	--	9.85	33.74	832.52	--	--
PZ03-06A	841.80	842.15	9.70	11.51	832.10	--	--	8.27	11.50	833.53	--	--	10.30	11.50	831.50	--	--
PZ03-06B	841.75	842.15	10.31	18.05	831.44	10.30	0.01	8.75	18.00	833.00	8.53	0.22	10.85	17.81	830.90	10.76	0.09
PZ03-06C	841.72	842.07	10.25	32.68	831.47	--	--	6.07	32.65	835.65	--	--	11.00	31.90	830.72	--	--
PZ03-06D	841.66	842.07	5.90	51.00	835.76	--	--	8.55	51.00	833.11	--	--	7.01	50.98	834.65	--	--
PZ03-07A	841.17	841.5	8.85	10.50	832.32	--	--	7.50	10.50	833.67	--	--	8.61	10.35	832.56	--	--
PZ03-07B	841.08	841.5	9.31	16.67	831.77	--	--	7.68	16.70	833.40	--	--	10.00	16.26	831.08	--	--
PZ03-07C	841.00	841.43	9.46	32.85	831.54	--	--	7.80	32.85	833.20	--	--	10.10	31.20	830.90	--	--
PZ03-07D	841.07	841.43	9.50	52.90	831.57	--	--	7.80	52.90	833.27	--	--	10.23	52.76	830.84	--	--
PZ03-08A	840.87	841.28	9.89	11.45	830.98	--	--	7.10	11.45	833.77	--	--	9.28	10.97	831.59	--	--
PZ03-08B	840.87	841.28	9.08	18.68	831.79	--	--	7.45	18.65	833.42	--	--	9.75	17.35	831.12	--	--
PZ03-08C	840.91	841.28	9.15	30.65	831.76	--	--	7.50	30.65	833.41	--	--	9.84	30.27	831.07	--	--
PZ03-08D	840.87	841.28	9.12	54.68	831.75	--	--	7.50	54.70	833.37	--	--	9.81	55.22	831.06	--	--
PZ03-09A	850.95	851.19	19.47	47.17	831.48	--	--	18.00	21.50	832.95	--	--	NA	NA	--	--	--
PZ03-09D	850.78	851.19	19.12	47.17	831.66	--	--	17.54	47.00	833.24	--	--	NA	NA	--	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
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NYSEG - Binghamton Former MGP Site
Binghamton, New York

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	3/18/2008					11/19/2008					5/29/2009				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	15.21	24.81	834.15	--	--	17.32	24.90	832.04	--	--	16.65	24.92	832.71	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.46	841.86	7.68	17.25	833.78	7.57	0.11	9.7	17.30	831.76	9.61	0.09	9.49	17.29	831.97	8.71	0.78
PZ03-01D	847.49	848.1	13.55	46.76	833.94	--	--	15.88	46.76	831.61	--	--	15.23	46.69	832.26	--	--
PZ03-02A	845.96	846.2	11.78	14.70	834.18	--	--	13.02	14.80	832.94	--	--	11.93	14.80	834.03	--	--
PZ03-02D	845.97	846.2	12	54.10	833.97	--	--	13.09	54.17	832.88	--	--	13.6	54.18	832.37	--	--
PZ03-03A	843.50	843.86	8.67	8.67	834.83	--	--	8.73	8.73	834.77	--	--	8.7	8.70	834.80	--	--
PZ03-03B	843.53	843.86	9.65	21.21	833.88	--	--	11.81	21.91	831.72	--	--	11.02	20.92	832.51	--	--
PZ03-03D	843.59	843.86	9.69	48.05	833.90	--	--	11.86	48.04	831.73	--	--	11.08	48.03	832.51	--	--
PZ03-04A	842.76	843.14	8.12	14.38	834.64	--	--	10.81	14.43	831.95	--	--	10.06	14.46	832.70	--	--
PZ03-04B	842.68	843.14	8.82	21.21	833.86	--	--	11.12	21.22	831.56	--	--	10.72	21.21	831.96	--	--
PZ03-04D	842.75	843.14	8.91	41.18	833.84	--	--	10.97	41.24	831.78	--	--	10.12	41.30	832.63	--	--
PZ03-05A	842.37	842.68	Dry	6.20	--	--	--	6.18	6.18	836.19	--	--	6.20	6.20	836.17	--	--
PZ03-05B	842.32	842.63	8.11	15.70	834.21	--	--	8.69	15.75	833.63	--	--	10.12	15.71	832.20	--	--
PZ03-05C	842.40	842.68	7.78	24.70	834.62	--	--	10.75	24.69	831.65	--	--	10.00	24.72	832.40	--	--
PZ03-05D	842.37	842.68	5.89	33.75	836.48	--	--	11.11	33.75	831.26	--	--	9.61	33.79	832.76	--	--
PZ03-06A	841.80	842.15	6.92	11.46	834.88	--	--	10.08	11.52	831.72	10.01	0.07	9.32	11.50	832.48	--	--
PZ03-06B	841.75	842.15	8.40	17.25	833.35	8.26	0.14	10.91	16.88	830.84	10.78	0.13	9.81	16.90	831.94	8.19	1.62
PZ03-06C	841.72	842.07	8.14	31.75	833.58	--	--	9.92	31.70	831.80	--	--	9.02	31.72	832.70	--	--
PZ03-06D	841.66	842.07	6.07	50.95	835.59	--	--	7.62	51.03	834.04	--	--	7.93	51.00	833.73	--	--
PZ03-07A	841.17	841.5	6.42	10.38	834.75	--	--	9.16	10.33	832.01	--	--	8.60	10.35	832.57	--	--
PZ03-07B	841.08	841.5	7.38	16.22	833.70	--	--	9.14	16.27	831.94	--	--	8.22	16.25	832.86	--	--
PZ03-07C	841.00	841.43	7.23	30.90	833.77	--	--	8.93	30.89	832.07	--	--	8.61	30.95	832.39	--	--
PZ03-07D	841.07	841.43	7.31	52.62	833.76	--	--	9.12	52.70	831.95	--	--	9.07	52.56	832.00	--	--
PZ03-08A	840.87	841.28	6.39	10.98	834.48	--	--	8.84	10.95	832.03	--	--	8.12	11.00	832.75	--	--
PZ03-08B	840.87	841.28	6.91	17.40	833.96	--	--	8.93	17.34	831.94	--	--	7.98	17.42	832.89	--	--
PZ03-08C	840.91	841.28	6.98	30.30	833.93	--	--	8.92	30.30	831.99	--	--	8.93	30.36	831.98	--	--
PZ03-08D	840.87	841.28	6.98	55.00	833.89	--	--	9.01	54.85	831.86	--	--	8.11	55.01	832.76	--	--
PZ03-09A	850.95	851.19	17.43	21.80	833.52	--	--	19.40	21.84	831.55	--	--	18.77	21.78	832.18	--	--
PZ03-09D	850.78	851.19	16.91	47.13	833.87	--	--	19.21	47.17	831.57	--	--	18.59	46.97	832.19	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
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Binghamton, New York

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	11/9/2009					5/28/2010					11/23/2010				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	16.91	24.82	832.45	--	--	17.67	24.82	831.69	--	--	16.69	24.81	832.67	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.46	841.86	9.65	17.30	831.81	9.20	0.45	10.21	17.28	831.25	9.54	0.67	8.91	17.29	832.55	8.86	0.05
PZ03-01D	847.49	848.1	15.37	46.72	832.12	--	--	15.94	46.62	831.55	--	--	15.16	46.68	832.33	--	--
PZ03-02A	845.96	846.2	13.59	14.75	832.37	--	--	14.18	14.70	831.78	--	--	13.11	14.79	832.85	--	--
PZ03-02D	845.97	846.2	13.83	54.16	832.14	--	--	14.52	54.12	831.45	--	--	13.56	54.13	832.41	--	--
PZ03-03A	843.50	843.86	8.79	8.79	834.71	--	--	Dry	8.72	--	--	--	Dry	8.79	--	--	--
PZ03-03B	843.53	843.86	10.79	21.90	832.74	--	--	12.08	21.88	831.45	--	--	11.18	21.88	832.35	--	--
PZ03-03D	843.59	843.86	11.38	48.02	832.21	--	--	12.13	48.00	831.46	--	--	11.19	48.03	832.40	--	--
PZ03-04A	842.76	843.14	10.08	14.42	832.68	--	--	10.78	14.45	831.98	--	--	9.64	14.45	833.12	--	--
PZ03-04B	842.68	843.14	10.49	21.19	832.19	--	--	11.29	21.21	831.39	--	--	10.26	21.21	832.42	--	--
PZ03-04D	842.75	843.14	10.53	41.32	832.22	--	--	11.33	41.30	831.42	--	--	10.32	41.35	832.43	--	--
PZ03-05A	842.37	842.68	6.20	6.20	836.17	--	--	6.18	6.18	836.19	--	--	9.79	NA	832.58	--	--
PZ03-05B	842.32	842.63	9.78	15.75	832.54	--	--	10.94	15.75	831.38	--	--	10.37	15.81	831.95	--	--
PZ03-05C	842.40	842.68	9.92	24.64	832.48	--	--	10.81	24.75	831.59	--	--	9.75	24.67	832.65	--	--
PZ03-05D	842.37	842.68	9.23	33.80	833.14	--	--	9.81	33.75	832.56	--	--	9.26	32.47	833.11	--	--
PZ03-06A	841.80	842.15	9.38	11.50	832.42	9.32	0.06	9.97	11.47	831.83	--	--	9.25	11.51	832.55	9.07	0.18
PZ03-06B	841.75	842.15	9.71	16.80	832.04	9.51	0.20	11.32	16.45	830.43	10.32	1.00	12.60	16.76	829.15	12.45	0.15
PZ03-06C	841.72	842.07	9.59	31.69	832.13	--	--	10.62	31.60	831.10	--	--	9.34	31.61	832.38	--	--
PZ03-06D	841.66	842.07	8.41	50.80	833.25	--	--	9.07	50.90	832.59	--	--	8.56	50.42	833.10	--	--
PZ03-07A	841.17	841.5	8.27	10.35	832.90	--	--	8.72	10.32	832.45	--	--	8.31	10.35	832.86	--	--
PZ03-07B	841.08	841.5	8.72	16.24	832.36	--	--	9.69	16.25	831.39	--	--	8.57	16.28	832.51	--	--
PZ03-07C	841.00	841.43	7.88	30.92	833.12	--	--	9.38	30.87	831.62	--	--	7.78	30.91	833.22	--	--
PZ03-07D	841.07	841.43	8.83	52.75	832.24	--	--	9.48	52.60	831.59	--	--	8.47	52.61	832.60	--	--
PZ03-08A	840.87	841.28	8.27	11.00	832.60	--	--	9.00	10.98	831.87	--	--	8.09	10.98	832.78	--	--
PZ03-08B	840.87	841.28	8.42	17.40	832.45	--	--	9.32	17.37	831.55	--	--	8.24	17.41	832.63	--	--
PZ03-08C	840.91	841.28	8.02	30.30	832.89	--	--	9.28	30.30	831.63	--	--	7.98	30.29	832.93	--	--
PZ03-08D	840.87	841.28	8.44	54.95	832.43	--	--	9.48	54.80	831.39	--	--	8.26	54.86	832.61	--	--
PZ03-09A	850.95	851.19	18.97	21.71	831.98	--	--	19.63	21.70	831.32	--	--	18.76	21.81	832.19	--	--
PZ03-09D	850.78	851.19	18.69	46.90	832.09	--	--	19.27	46.95	831.51	--	--	18.48	47.03	832.30	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	6/2/2011					2/15/2012					6/15/2012				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	15.91	24.89	833.45	--	--	15.35	NA	834.01	--	--	17.42	24.85	831.94	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.46	841.86	8.34	17.22	833.12	7.87	0.47	10.05	17.15	831.41	--	trace	9.92	17.21	831.54	9.85	0.07
PZ03-01D	847.49	848.1	14	46.67	833.49	--	--	15.67	36.66	831.82	--	--	15.85	46.75	831.64	--	--
PZ03-02A	845.96	846.2	12.07	14.75	833.89	--	--	13.86	14.72	832.10	--	--	12.47	14.77	833.49	--	--
PZ03-02D	845.97	846.2	11.78	54.12	834.19	--	--	14.03	54.11	831.94	--	--	14.09	54.11	831.88	--	--
PZ03-03A	843.50	843.86	Dry	8.42	--	--	--	8.65	8.65	834.85	--	--	Dry	8.74	--	--	--
PZ03-03B	843.53	843.86	10.58	21.87	832.95	--	--	11.66	21.86	831.87	--	--	11.84	21.88	831.69	--	--
PZ03-03D	843.59	843.86	10.61	47.98	832.98	--	--	11.73	48.00	831.86	--	--	11.89	48.07	831.70	--	--
PZ03-04A	842.76	843.14	9.43	14.44	833.33	--	--	9.76	14.43	833.00	--	--	10.20	14.48	832.56	--	--
PZ03-04B	842.68	843.14	9.88	21.22	832.80	--	--	10.82	21.20	831.86	--	--	11.02	21.29	831.66	--	--
PZ03-04D	842.75	843.14	9.88	41.32	832.87	--	--	10.87	41.35	831.88	--	--	11.07	41.43	831.68	--	--
PZ03-05A	842.37	842.68	0.80	6.98	841.57	--	--	5.68	6.86	836.69	--	--	0.65	6.87	841.72	--	--
PZ03-05B	842.32	842.63	8.68	15.79	833.64	--	--	10.51	15.73	831.81	--	--	10.68	15.91	831.64	--	--
PZ03-05C	842.40	842.68	9.11	24.67	833.29	--	--	10.64	24.60	831.76	--	--	10.82	24.66	831.58	--	--
PZ03-05D	842.37	842.68	8.32	33.43	834.05	--	--	10.75	32.47	831.62	--	--	10.24	32.51	832.13	--	--
PZ03-06A	841.80	842.15	8.33	11.50	833.47	--	--	9.71	11.51	832.09	--	--	9.94	11.54	831.86	--	trace
PZ03-06B	841.75	842.15	9.46	16.64	832.29	8.92	0.54	10.20	16.64	831.55	10.00	0.20	10.21	16.77	831.54	10.11	0.10
PZ03-06C	841.72	842.07	9.49	31.48	832.23	--	--	10.27	32.29	831.45	--	--	10.20	31.29	831.52	--	--
PZ03-06D	841.66	842.07	6.04	50.94	835.62	--	--	3.94	50.91	837.72	--	--	4.66	51.02	837.00	--	--
PZ03-07A	841.17	841.5	7.79	10.37	833.38	--	--	8.43	10.25	832.74	--	--	8.83	10.36	832.34	--	--
PZ03-07B	841.08	841.5	8.13	16.25	832.95	--	--	9.16	15.21	831.92	--	--	9.30	16.26	831.78	--	--
PZ03-07C	841.00	841.43	7.99	30.92	833.01	--	--	9.57	30.86	831.43	--	--	1.02	30.84	839.98	--	--
PZ03-07D	841.07	841.43	8.78	52.53	832.29	--	--	9.71	52.00	831.36	--	--	9.54	52.28	831.53	--	--
PZ03-08A	840.87	841.28	7.69	11.00	833.18	--	--	8.42	10.98	832.45	--	--	8.81	11.02	832.06	--	--
PZ03-08B	840.87	841.28	8.03	17.42	832.84	--	--	8.87	17.44	832.00	--	--	9.02	17.45	831.85	--	--
PZ03-08C	840.91	841.28	8.02	30.30	832.89	--	--	8.97	30.31	831.94	--	--	9.06	30.34	831.85	--	--
PZ03-08D	840.87	841.28	8.09	54.72	832.78	--	--	9.41	55.03	831.46	--	--	9.17	55.10	831.70	--	--
PZ03-09A	850.95	851.19	18.11	21.66	832.84	--	--	19.31	21.67	831.64	--	--	18.44	21.75	832.51	--	--
PZ03-09D	850.78	851.19	17.49	47.03	833.29	--	--	18.99	46.86	831.79	--	--	19.16	47.08	831.62	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	11/20/2012					5/31/2013					11/26/2013				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	17.44	24.82	831.92	--	--	15.47	-	833.89	--	--	17.61	24.82	831.75	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.46	841.86	10.00	NA	831.46	9.85	0.15	8.3	-	833.16	8.29	0.01	10.11	17.21	831.35	10.03	0.08
PZ03-01D	847.49	848.1	15.85	46.75	831.64	--	--	14.34	46.72	833.15	--	--	16.09	46.77	831.40	--	--
PZ03-02A	845.96	846.2	13.74	14.82	832.22	--	--	12.25	14.80	833.71	--	--	14.2	14.74	831.76	--	--
PZ03-02D	845.97	846.2	14.17	54.23	831.80	--	--	13.35	54.17	832.62	--	--	14.46	54.23	831.51	--	--
PZ03-03A	843.50	843.86	8.72	8.72	834.78	--	--	Dry	8.70	--	--	--	Dry	8.70	--	--	--
PZ03-03B	843.53	843.86	11.86	21.91	831.67	--	--	9.62	21.86	833.91	--	--	12.07	21.88	831.46	--	--
PZ03-03D	843.59	843.86	10.91	48.05	832.68	--	--	9.64	48.00	833.95	--	--	12.15	48.10	831.44	--	--
PZ03-04A	842.76	843.14	10.39	14.51	832.37	--	--	9.15	14.47	833.61	--	--	10.98	14.48	831.78	--	--
PZ03-04B	842.68	843.14	10.69	21.22	831.99	--	--	8.89	21.25	833.79	--	--	10.78	21.25	831.90	--	--
PZ03-04D	842.75	843.14	11.06	41.44	831.69	--	--	8.54	41.40	834.21	--	--	11.27	41.43	831.48	--	--
PZ03-05A	842.37	842.68	2.78	6.82	839.59	--	--	--	--	--	--	--	1.48	6.72	840.89	--	--
PZ03-05B	842.32	842.63	10.69	15.88	831.63	--	--	7.65	14.20	834.67	--	--	0.62	10.07	841.70	--	--
PZ03-05C	842.40	842.68	10.69	24.69	831.71	--	--	8.15	24.66	834.25	--	--	10.65	24.68	831.75	--	--
PZ03-05D	842.37	842.68	10.45	32.53	831.92	--	--	9.55	32.47	832.82	--	--	10.38	32.52	831.99	--	--
PZ03-06A	841.80	842.15	9.90	NA	831.90	9.88	0.02	8.36	11.54	833.44	-	trace	10.12	11.54	831.68	--	trace
PZ03-06B	841.75	842.15	10.18	16.73	831.57	10.06	0.12	7.75	16.65	834.00	--	--	10.38	16.68	831.37	10.26	0.12
PZ03-06C	841.72	842.07	10.15	31.29	831.57	--	--	6.97	31.24	834.75	--	--	10.41	31.19	831.31	--	--
PZ03-06D	841.66	842.07	6.23	51.01	835.43	--	--	6.68	50.97	834.98	--	--	4.25	50.95	837.41	--	--
PZ03-07A	841.17	841.5	8.33	10.42	832.84	--	--	7.67	10.38	833.50	--	--	8.95	10.41	832.22	--	--
PZ03-07B	841.08	841.5	9.32	16.26	831.76	--	--	6.26	16.42	834.82	--	--	9.56	16.27	831.52	--	--
PZ03-07C	841.00	841.43	9.57	30.82	831.43	--	--	6.35	30.61	834.65	--	--	8.42	30.49	832.58	--	--
PZ03-07D	841.07	841.43	9.64	52.19	831.43	--	--	8.10	52.10	832.97	--	--	4.55	51.23	836.52	--	--
PZ03-08A	840.87	841.28	8.46	11.03	832.41	--	--	6.91	11.00	833.96	--	--	8.69	11.02	832.18	--	--
PZ03-08B	840.87	841.28	9.06	17.46	831.81	--	--	6.04	17.40	834.83	--	--	9.29	17.42	831.58	--	--
PZ03-08C	840.91	841.28	9.13	30.35	831.78	--	--	6.01	30.31	834.90	--	--	9.48	30.34	831.43	--	--
PZ03-08D	840.87	841.28	9.13	54.83	831.74	--	--	6.40	54.55	834.47	--	--	9.56	54.35	831.31	--	--
PZ03-09A	850.95	851.19	19.46	21.95	831.49	--	--	17.67	21.67	833.28	--	--	19.63	21.69	831.32	--	--
PZ03-09D	850.78	851.19	19.17	47.02	831.61	--	--	17.78	46.98	833.00	--	--	19.41	47.01	831.37	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

ARCADIS Design & Consultancy for natural and built assets

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	12/2/2014					12/4/2014 (Post-Redevelopment)					12/17/2015				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	17.10	24.85	832.26	--	--	--	28.80	--	--	--	NA	NA	--	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.46	841.86	9.4	17.05	832.06	--	trace blebs	9.18	20.46	832.28	--	trace blebs	9.9	17.21	831.56	9.89	0.01
PZ03-01D	847.49	848.1	15.76	46.77	831.73	--	--	--	47.20	--	--	--	14.67	46.77	832.82	--	--
PZ03-02A	845.96	846.2	13.3	14.84	832.66	--	--	--	15.65	--	--	--	14.52	15.54	831.44	--	--
PZ03-02D	845.97	846.2	14.11	54.24	831.86	--	--	--	55.00	--	--	--	14.44	54.90	831.53	--	--
PZ03-03A	843.50	843.86	Dry	8.73	--	--	--	--	11.14	--	--	--	Dry	11.12	--	--	--
PZ03-03B	843.53	843.86	11.57	21.91	831.96	--	--	--	23.79	--	--	--	12	23.78	831.53	--	--
PZ03-03D	843.59	843.86	11.65	48.08	831.94	--	--	--	49.63	--	--	--	12.15	49.64	831.44	--	--
PZ03-04A	842.76	843.14	9.89	14.49	832.87	--	--	9.64	14.65	833.12	--	--	10.95	14.56	831.81	--	--
PZ03-04B	842.68	843.14	10.83	21.18	831.85	--	--	10.46	22.08	832.22	--	--	11.11	22.00	831.57	--	--
PZ03-04D	842.75	843.14	10.84	41.33	831.91	--	--	10.54	41.59	832.21	--	--	11.18	41.51	831.57	--	--
PZ03-05A	842.37	842.68	0.82	6.15	841.55	--	--	1.30	7.16	841.07	--	--	Dry	7.12	--	--	--
PZ03-05B	842.32	842.63	--	--	--	--	--	10.04	16.76	832.28	--	--	10.73	16.72	831.59	--	--
PZ03-05C	842.40	842.68	10.47	24.68	831.93	--	--	10.16	27.68	832.24	--	--	10.83	27.67	831.57	--	--
PZ03-05D	842.37	842.68	10.47	32.55	831.90	--	--	10.04	44.75	832.33	--	--	10.80	44.67	831.57	--	--
PZ03-06A	841.80	842.15	9.76	11.51	832.04	--	--	9.46	18.32	832.34	--	--	10.23	11.77	831.57	--	--
PZ03-06B	841.75	842.15	9.76	9.76	831.99	--	trace blebs	9.50	11.86	832.25	--	trace blebs	10.20	18.58	831.55	10.20	trace
PZ03-06C	841.72	842.07	9.79	31.14	831.93	--	--	9.36	32.68	832.36	--	--	10.10	32.64	831.62	--	--
PZ03-06D	841.66	842.07	0.31	50.99	841.35	--	--	9.16	53.21	832.50	--	--	10.02	53.08	831.64	--	--
PZ03-07A	841.17	841.5	8.91	10.44	832.26	--	--	8.57	10.75	832.60	--	--	9.42	10.70	831.75	--	--
PZ03-07B	841.08	841.5	8.86	16.28	832.22	--	--	8.71	16.66	832.37	--	--	9.42	16.59	831.66	--	--
PZ03-07C	841.00	841.43	0.60	29.48	840.40	--	--	8.64	32.66	832.36	--	--	9.35	32.60	831.65	--	--
PZ03-07D	841.07	841.43	0.60	48.99	840.47	--	--	8.68	51.58	832.39	--	--	9.39	51.51	831.68	--	--
PZ03-08A	840.87	841.28	8.66	10.99	832.21	--	--	8.48	11.81	832.39	--	--	9.09	11.76	831.78	--	--
PZ03-08B	840.87	841.28	8.65	17.43	832.22	--	--	8.49	17.80	832.38	--	--	9.17	17.70	831.70	--	--
PZ03-08C	840.91	841.28	8.67	30.33	832.24	--	--	8.65	30.62	832.26	--	--	9.17	30.56	831.74	--	--
PZ03-08D	840.87	841.28	7.72	54.20	833.15	--	--	8.46	55.68	832.41	--	--	9.13	55.55	831.74	--	--
PZ03-09A	850.95	851.19	19.19	21.75	831.76	--	--	--	22.46	--	--	--	NA	NA	--	--	--
PZ03-09D	850.78	851.19	19.12	46.98	831.66	--	--	--	47.58	--	--	--	NA	NA	--	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

ARCADIS Design & Consultancy for natural and built assets

Well ID	Measuring Point Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	12/27/2016					12/21/2017					11/23/2020				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	848.37	844.70	--	--	--	--	--	--	--	--	--	--	10.22	12.29	838.15	--	--
MW93-06D	846.80	844.20	--	--	--	--	--	--	--	--	--	--	14.49	67.24	832.31	--	--
MW93-05D	847.61	844.90	--	--	--	--	--	--	--	--	--	--	15.54	59.15	832.07	--	--
MW97-14D	845.57	845.90	--	--	--	--	--	--	--	--	--	--	13.12	38.25	832.45	--	--
MW97-14S	845.55	845.90	--	--	--	--	--	--	--	--	--	--	13.25	19.00	832.30	--	--
MW01-17D	861.16	861.50	--	--	--	--	--	--	--	--	--	--	29.28	58.75	831.88	--	--
MW01-17S	861.32	861.70	--	--	--	--	--	--	--	--	--	--	dry	29.45[8]	--	--	--
Sentinel Wells																	
MW97-07	849.36	849.33	16.91	29.83	832.45	--	--	5.77	25.86	843.59	--	--	NM	NM[7]	--	--	--
MW-01-07-R	848.57	849.00	--	--	--	--	--	--	--	--	--	--	16.54	108.29	832.03	--	--
PZ01-02	841.46	841.86	10.6	20.34	830.86	8.90	1.70	8.94	NM	832.52	8.89	0.05	NM	NM[11]	--	--	--
PZ03-01D	847.49	848.1	15.44	46.69	832.05	--	--	2.95	46.69	844.54	--	--	NM	NM[7]	--	--	--
PZ03-02A	845.96	846.2	NA	NA[6]	--	--	--	NA	NA[6]	--	--	--	0	NM[10]	--	--	--
PZ03-02D	845.97	846.2	NA	NA[6]	--	--	--	NA	NA[6]	--	--	--	0	NM[10]	--	--	--
PZ03-03A	843.50	843.86	Dry	11.07	--	--	--	Dry	11.11	--	--	--	10.50	11.12	833.00	--	--
PZ03-03B	843.53	843.86	11.3	23.78	832.23	--	--	12.21	23.78	831.32	--	--	12.28	33.77	831.25	--	--
PZ03-03D	843.59	843.86	11.64	49.62	831.95	--	--	12.31	49.63	831.28	--	--	12.54	49.62	831.05	--	--
PZ03-04A	842.76	843.14	10.04	14.58	832.72	--	--	11.11	14.58	831.65	--	--	11.08	14.59	831.68	--	--
PZ03-04B	842.68	843.14	10.42	21.99	832.26	--	--	11.36	22.00	831.32	--	--	11.39	12.00		--	--
PZ03-04D	842.75	843.14	11.55	41.60	831.20	--	--	11.44	41.48	831.31	--	--	11.58	41.50	831.17	--	--
PZ03-05A	842.37	842.68	Dry	7.19	--	--	--	Dry	7.10	--	--	--	Trace	7.15	--	--	--
PZ03-05B	842.32	842.63	10.02	16.71	832.30	--	--	11.04	16.72	831.28	--	--	9.65	16.72	832.67	--	--
PZ03-05C	842.40	842.68	10.15	27.68	832.25	--	--	11.12	27.67	831.28	--	--	11.28	27.67	831.12	--	--
PZ03-05D	842.37	842.68	10.20	44.67	832.17	--	--	11.08	44.69	831.29	--	--	11.26	44.67	831.11	--	--
PZ03-06A	841.80	842.15	NA	NA[6]	--	--	--	NA	NA[6]	--	--	--	NM	NM[11]	--	--	--
PZ03-06B	841.75	842.15	NA	NA[6]	--	--	--	NA	NA[6]	--	--	--	NM	NM[11]	--	--	--
PZ03-06C	841.72	842.07	NA	NA[6]	--	--	--	NA	NA[6]	--	--	--	NM	NM[11]	--	--	--
PZ03-06D	841.66	842.07	NA	NA[6]	--	--	--	NA	NA[6]	--	--	--	NM	NM[11]	--	--	--
PZ03-07A	841.17	841.5	8.02	10.69	833.15	--	--	8.47	10.70	832.70	--	--	NM	NM[11]	--	--	--
PZ03-07B	841.08	841.5	8.72	16.61	832.36	--	--	9.66	16.59	831.42	--	--	NM	NM[11]	--	--	--
PZ03-07C	841.00	841.43	8.70	32.59	832.30	--	--	9.68	32.58	831.32	--	--	NM	NM[11]	--	--	--
PZ03-07D	841.07	841.43	8.95	51.52	832.12	--	--	9.72	51.52	831.35	--	--	NM	NM[11]	--	--	--
PZ03-08A	840.87	841.28	7.80	11.77	833.07	--	--	8.84	11.76	832.03	--	--	NM	NM[11]	--	--	--
PZ03-08B	840.87	841.28	8.55	17.70	832.32	--	--	9.42	17.72	831.45	--	--	NM	NM[11]	--	--	--
PZ03-08C	840.91	841.28	8.65	30.54	832.26	--	--	9.46	30.55	831.45	--	--	NM	NM[11]	--	--	--
PZ03-08D	840.87	841.28	9.17	55.55	831.70	--	--	9.46	55.56	831.41	--	--	NM	NM[11]	--	--	--
PZ03-09A	850.95	851.19	19.05	22.43	831.90	--	--	13.82	NA	837.13	--	--	19.94	22.70	831.01	--	--
PZ03-09D	850.78	851.19	18.82	47.57	831.96	--	--	19.54	47.59	831.24	--	--	19.55	47.68	831.23	--	--

See Notes on Page 8.

Table 2
Upgradient, Side-Gradient, and Sentinel Well NAPL Gauging and Groundwater Elevation Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Notes:

1. NAPL gauging and water level data collected by Arcadis on the dates indicated.
2. All elevations referenced to feet above mean sea level, North American Vertical Datum of 1988.
3. Ground surface elevation is approximate. City of Binghamton re-surfaced Court Street in 2008. The surveyed points are from 2007 before the road was re-surfaced.
4. Installed well depth taken from field geologist notes.
5. Sediment and debris was removed from all road wells on 12/3-12/4/14 by jetting with potable water.
6. Piezometer clusters PZ03-02 (A, D) and PZ03-06 (A, B, C, D) were observed to be paved over during the 2016 NAPL monitoring event.
7. Monitoring well was misidentified in the field during the 2020 monitoring event and not measured or sampled.
8. Monitoring well MW01-17S was dry during the 2020 monitoring event. Depth to bottom was measured at 29.45 feet, constructed well depth is 37.0 feet indicating approximately 7.5 feet of sediment in the well.
9. Monitoring well NMW-4 was unable to be located during the 2020 monitoring event and was not measured.
10. Piezometer cluster PZ03-02 (A, D) cover and J-plug were missing, casing was filled with dirt/road debris during the 2020 monitoring event and was unable to be measured.
11. Piezometer clusters PZ01-02, PZ03-06 (A, B, C, D), PZ03-07 (A, B, C, D), and PZ03-08 (A, B, C, D) were observed to be paved over during the 2020 monitoring event and not measured.

Table 3
Groundwater Sample Analytical Results Summary
2020 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Location ID:	NYSDEC TOGS Standards and	Units	MW01-17-D		MW93-05D		MW97-14-D		MW97-14-S		PZ93-1	NMW-01[5]	MW01-07-R[5]	
Date Collected:	Guidance Values[3]		10/02/01	11/24/20	12/19/97	11/23/20	12/22/97	11/23/20	12/22/97	11/23/20	11/23/20	11/24/20	10/01/01	11/24/20
Volatile Organics														
Benzene	1	µg/L	10 U [10 U]	1 U	10 U	1 U	10 U	1 U	10 U	1 U [1 U]	**21**	**160**	10 U	1 U
Ethylbenzene	5	µg/L	10 U [10 U]	1 U	**1.0 J**	1 U	10 U	1 U	10 U	1 U [1 U]	**920**	**3.4 J**	10 U	1 U
Toluene	5	µg/L	10 U [10 U]	1 U	10 U	1 U	10 U	1 U	10 U	1 U [1 U]	**120**	4 U	10 U	1 U
Xylenes (total)	5	µg/L	--	2 U	**3.0 J**	2 U	10 U	2 U	10 U	2 U [2 U]	**450**	**13**	--	2 U
Semivolatile Organics														
Acenaphthene	20	µg/L	11 U [10 U]	5 U	**1.0 J**	5 U	10 U	5 U	10 U	5 U [5 U]	**220**	**85**	11 U	5 U
Acenaphthylene	--	µg/L	11 U [10 U]	5 U	**30**	5 U	10 U	5 U	10 U	5 U [5 U]	**2.3 J**	25 U	11 U	5 U
Anthracene	50	µg/L	11 U [10 U]	5 U	**2.0 J**	5 U	10 U	5 U	10 U	5 U [5 U]	**4.2 J**	25 U	11 U	5 U
Benzo(a)anthracene	0.002	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Benzo(a)pyrene	ND	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Benzo(g,h,i)perylene	--	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Benzo(k)fluoranthene	0.002	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 U	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Chrysene	0.002	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Dibenzo(a,h)anthracene	--	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 U	5 U
Fluoranthene	50	µg/L	11 U [10 U]	5 U	**2.0 J**	**0.87 J**	10 U	5 U	10 U	5 U [5 U]	**5.7 J**	25 U	11 U	5 U
Fluorene	50	µg/L	11 U [10 U]	5 U	10 U	5 U	10 U	5 U	10 U	5 U [5 U]	**84**	**20 J**	11 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	11 UJ [10 UJ]	5 U	10 U	5 U	10 U	5 UJ	10 U	5 U [5 U]	25 U	25 U	11 UJ	5 U
Naphthalene	10	µg/L	11 U [10 U]	5 U	**79**	5 U	10 U	5 U	10 U	5 U [5 U]	**3,700 D**	**11 J**	11 U	5 U
Phenanthrene	50	µg/L	11 U [10 U]	5 U	**17**	5 U	10 U	5 U	10 U	5 U [5 U]	**62**	**3.3 J**	11 U	5 U
Pyrene	50	µg/L	11 U [10 U]	5 U	**3.0 J**	**1.4 J**	10 U	5 U	10 U	5 U [5 U]	**10 J**	**1.8 J**	11 U	5 U
Miscellaneous														
Cyanide	200	mg/L	**3.0 B [3.0 B]**	0.01 U	10 U	0.01 U	10 U	0.01 U	**23**	**0.0073 J [0.0089 J]**	**0.011**	0.010 UB	**16**	0.01 U

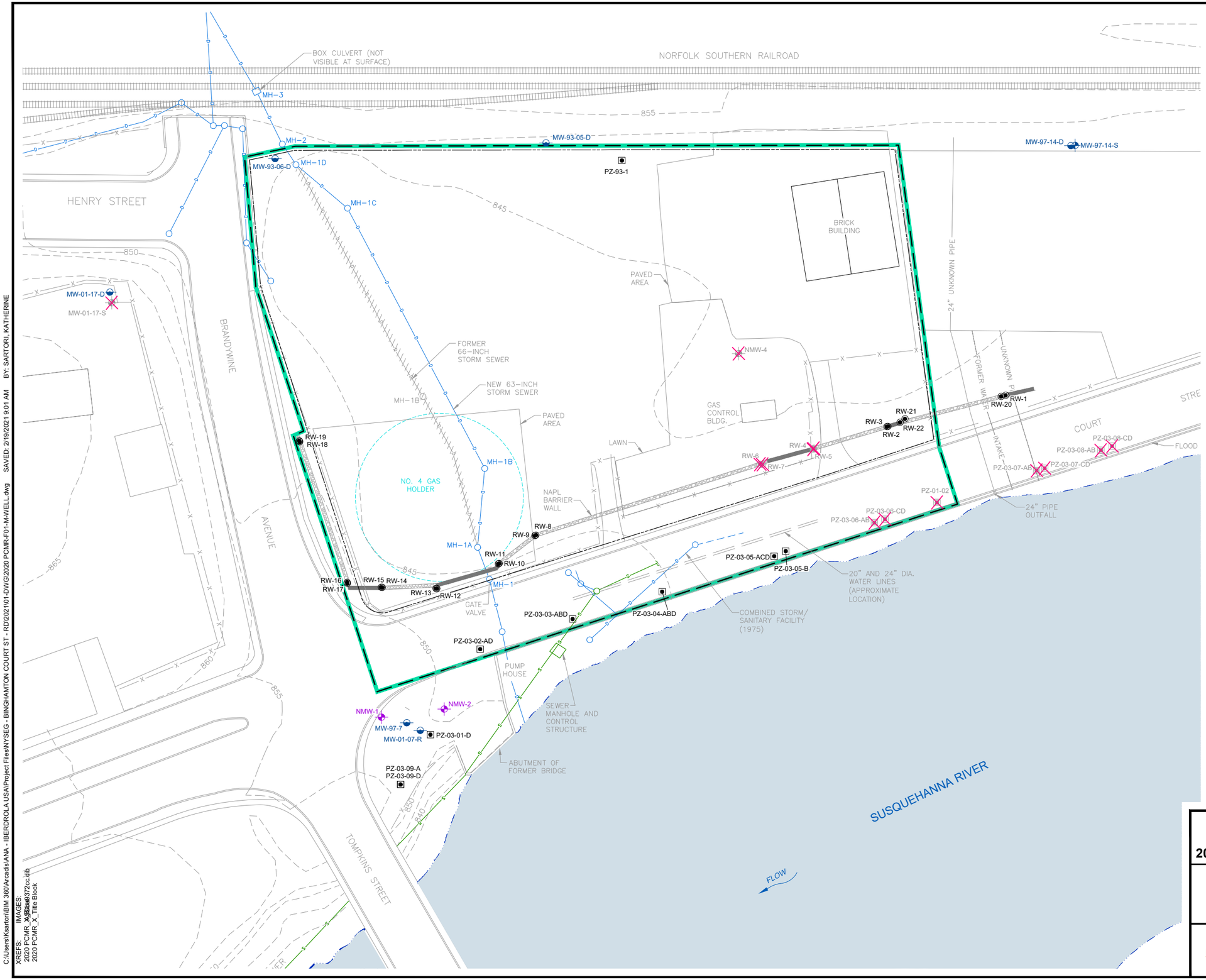
Acronyms and Abbreviations:

D - Concentration is based on a diluted sample analysis.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - non detect
NYSDEC - New York State Department of Environmental Conservation
U - Indicates that the compound was analyzed for but not detected. The associated value is the Reporting Limit.
UB - Compound considered non-detect at the listed value due to associated blank contamination.
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.
µg/L - micrograms per liter
-- Indicates that no water quality standard or guidance value is available for this compound.
[ ] - Results shown in brackets represent field duplicates.

Notes:

1. Samples collected by Arcadis of New York, Inc. on the dates indicated.
2. Laboratory analysis was performed by Eurofins TestAmerica of Amherst, NY.
3. 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.
4. Bold values exceed the method detection limit. Shaded results exceed the applicable screening values.
5. Well misidentified in the field and sampled/gauged.

Figures



LEGEND:

- NYSEG PROPERTY LINES AND ENVIRONMENTAL EASEMENT LIMITS
- OPERABLE UNIT BOUNDARY AND INSTITUTIONAL CONTROL LIMITS
- 840 GROUND SURFACE ELEVATION (FT AMSL)
- FENCE
- RAILROAD TRACK
- FLOOD WALL
- SANITARY SEWER LINE
- STORM SEWER LINE
- ABANDONED STORM SEWER LINE
- HISTORIC FEATURE
- NAPL BARRIER WALL
- JET GROUT PANEL
- WELL/PIEZOMETER – UNABLE TO LOCATE/NOT SAMPLED
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- NAPL MONITORING WELL
- PIEZOMETER
- RECOVERY WELL

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303; FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
4. STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES, PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.
5. ALL LOCATIONS ARE APPROXIMATE. SITE PLAN DEPICTS BOTH HISTORIC AND CURRENT SITE FEATURES, INCLUDING MONITORING WELLS.

0 40' 80'
GRAPHIC SCALE

NYSEG
COURT STREET FORMER MGP SITE
BINGHAMTON, NEW YORK
2020 POST-CONSTRUCTION MONITORING REPORT

MONITORING WELL LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

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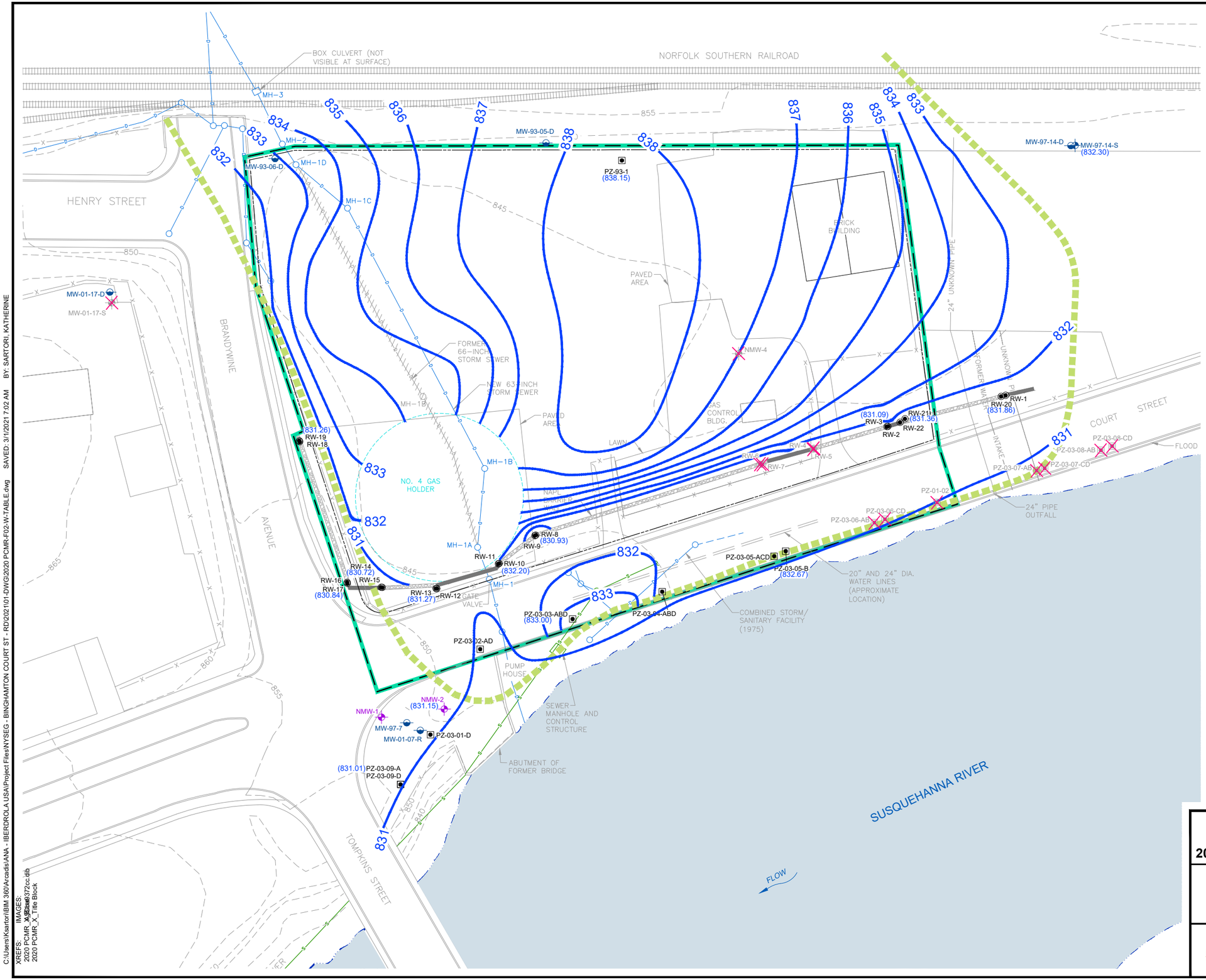

LEGEND:

- NYSEG PROPERTY LINES AND ENVIRONMENTAL EASEMENT LIMITS
- OPERABLE UNIT BOUNDARY AND INSTITUTIONAL CONTROL LIMITS
- 840 GROUND SURFACE ELEVATION (FT AMSL)
- FENCE
- RAILROAD TRACK
- FLOOD WALL
- SANITARY SEWER LINE
- STORM SEWER LINE
- ABANDONED STORM SEWER LINE
- HISTORIC FEATURE
- EDGE OF SILT
- NAPL BARRIER WALL
- JET GROUT PANEL
- WELL/PIEZOMETER – UNABLE TO LOCATE/NOT SAMPLED
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- NAPL MONITORING WELL
- PIEZOMETER
- RECOVERY WELL
- 832 GROUNDWATER CONTOUR
- (833.01) GROUNDWATER ELEVATION

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303; FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
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5. ALL LOCATIONS ARE APPROXIMATE. SITE PLAN DEPICTS BOTH HISTORIC AND CURRENT SITE FEATURES, INCLUDING MONITORING WELLS.

0 40' 80'
GRAPHIC SCALE

NYSEG
COURT STREET FORMER MGP SITE
BINGHAMTON, NEW YORK
2020 POST-CONSTRUCTION MONITORING REPORT

WATER TABLE SURFACE MAP - NOVEMBER 23, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

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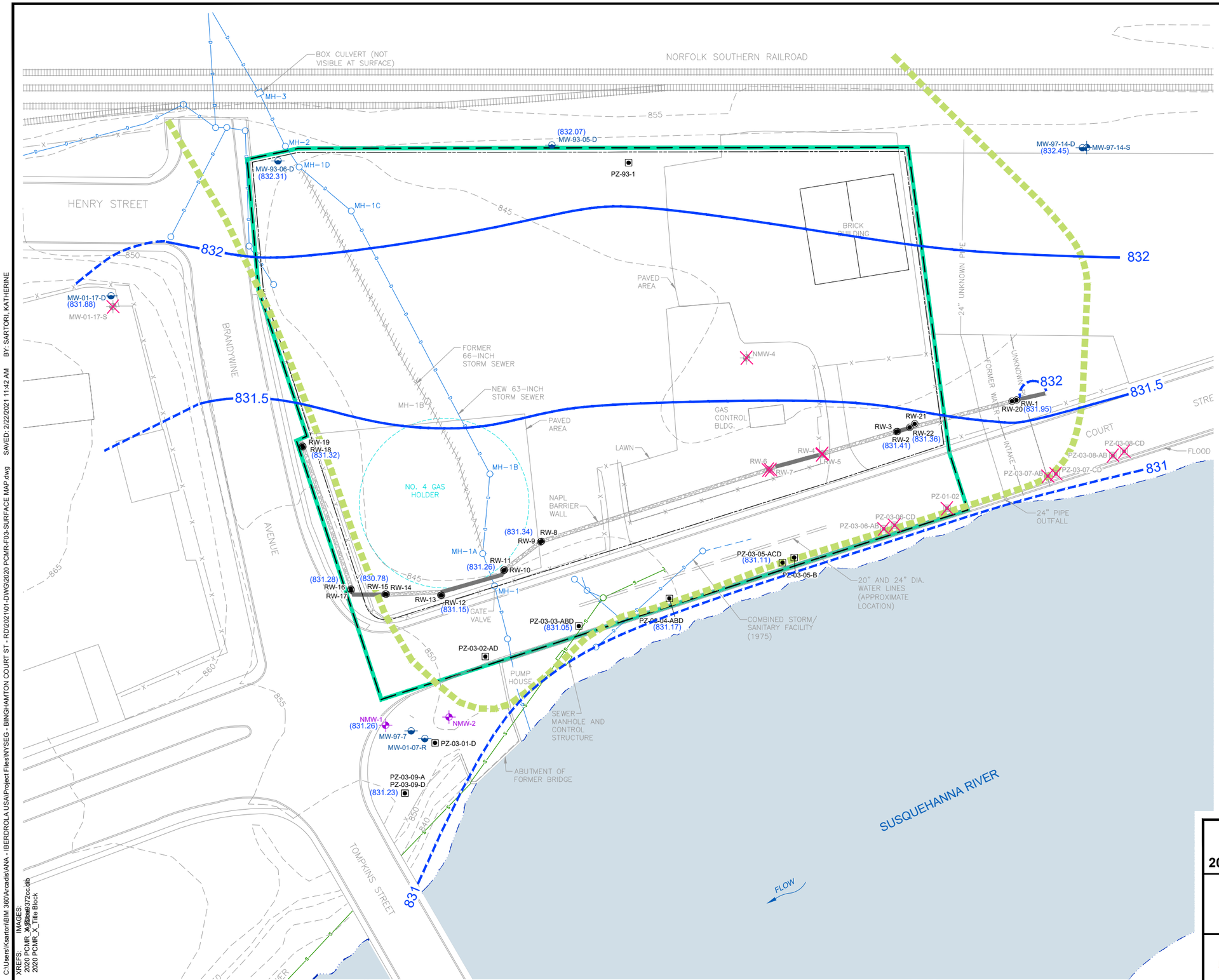

LEGEND:

- NYSEG PROPERTY LINES AND ENVIRONMENTAL EASEMENT LIMITS
- OPERABLE UNIT BOUNDARY AND INSTITUTIONAL CONTROL LIMITS
- 840 GROUND SURFACE ELEVATION (FT AMSL)
- FENCE
- RAILROAD TRACK
- FLOOD WALL
- SANITARY SEWER LINE
- STORM SEWER LINE
- ABANDONED STORM SEWER LINE
- HISTORIC FEATURE
- EDGE OF SILT
- NAPL BARRIER WALL
- JET GROUT PANEL
- WELL/PIEZOMETER – UNABLE TO LOCATE/NOT SAMPLED
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- NAPL MONITORING WELL
- PIEZOMETER
- RECOVERY WELL
- 832 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- (833.01) GROUNDWATER ELEVATION

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303; FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
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5. ALL LOCATIONS ARE APPROXIMATE. SITE PLAN DEPICTS BOTH HISTORIC AND CURRENT SITE FEATURES, INCLUDING MONITORING WELLS.

0 40' 80'
GRAPHIC SCALE

NYSEG
COURT STREET FORMER MGP SITE
BINGHAMTON, NEW YORK
2020 POST-CONSTRUCTION MONITORING REPORT

SAND AND GRAVEL POTENTIOMETRIC SURFACE MAP - NOVEMBER 23, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

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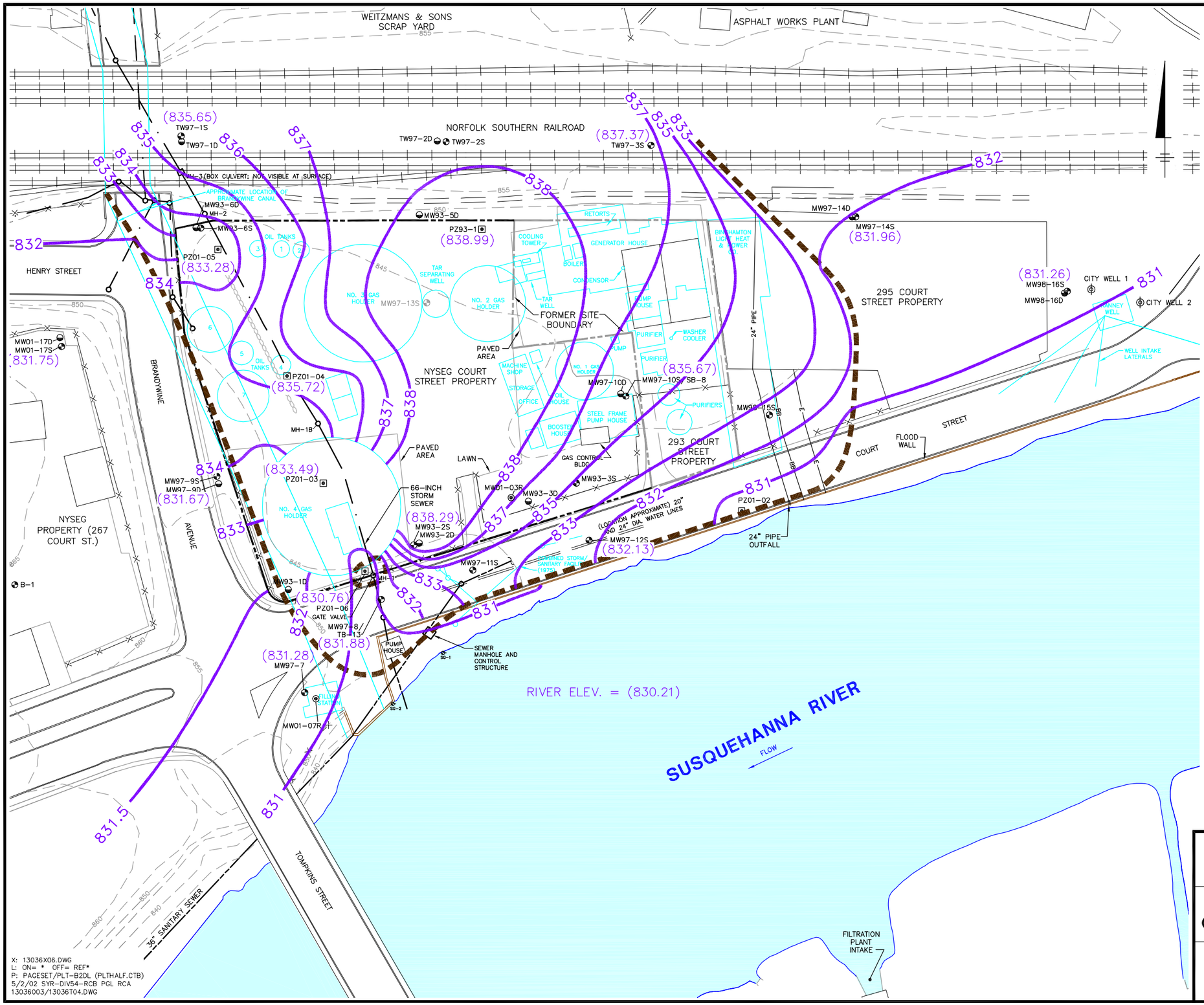
Attachment 1

Select RI Figures



LEGEND

- FLOOD WALL
- RAILROAD TRACK
- FENCE
- SITE PROPERTY LINES (APPROXIMATE)
- SEWER LINE (APPROXIMATE)
- 840 GROUND SURFACE ELEVATION CONTOUR (FT. AMSL)
- HISTORICAL FEATURE
- BURIED CONCRETE WALL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- MONITORING WELL (BEDROCK)
- PIEZOMETER
- CITY MONITORING WELL
- STAFF GAUGE
- DECOMMISSIONED MONITORING WELL
- (831.26) WATER TABLE ELEVATION (FT. AMSL)
- 832 WATER TABLE ELEVATION CONTOUR (FT. AMSL) DASHED WHERE INFERRED
- EDGE OF SILT

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
4. STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES. PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.
5. ALL SURFACE SOIL SAMPLING, SOIL BORING, TEST BORING, MONITORING WELL, CITY WELL, AND TEMPORARY MONITORING WELL LOCATIONS SURVEYED BY HAWK ENGINEERING, P.C., BINGHAMTON, N.Y.

0 100' 200'

GRAPHIC SCALE

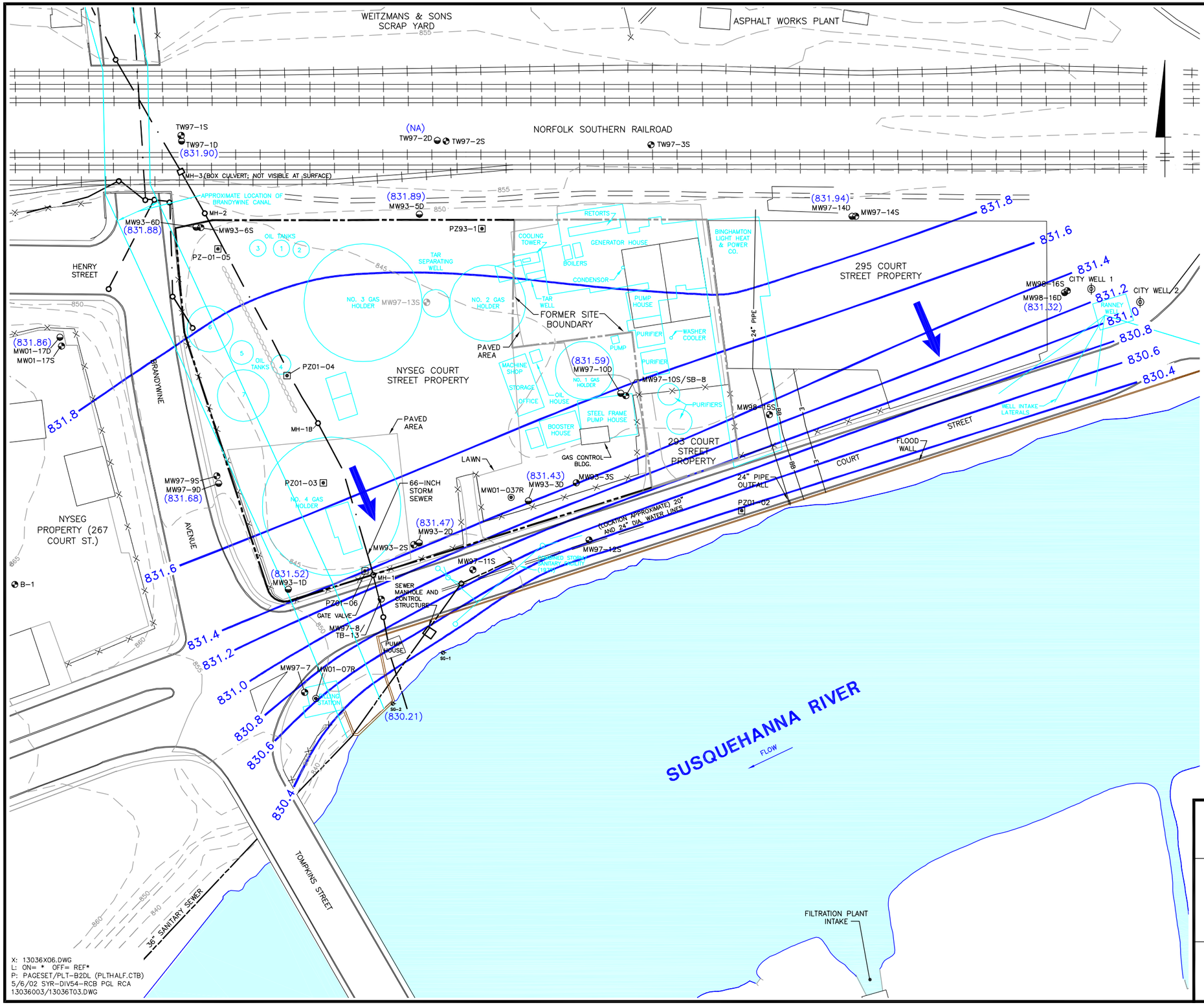
X: 13036X06.DWG
L: ON= * OFF= REF*
P: PAGESET/PLT-B2DL (PLTHALF.CTB)
5/2/02 SYR-DIV54-RCB PGL RCA
13036003/13036T04.DWG

NEW YORK STATE ELECTRIC & GAS CORP.
BINGHAMTON, NEW YORK
COURT STREET SITE
PHASE II SRI

WATER TABLE ELEVATION CONTOUR MAP - OCTOBER 2, 2001

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE 11



LEGEND

- FLOOD WALL
- RAILROAD TRACK
- FENCE
- SITE PROPERTY LINES (APPROXIMATE)
- SEWER LINE (APPROXIMATE)
- 840 GROUND SURFACE ELEVATION CONTOUR (FT. AMSL)
- HISTORICAL FEATURE
- BURIED CONCRETE WALL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- MONITORING WELL (BEDROCK)
- PIEZOMETER
- CITY MONITORING WELL
- STAFF GAUGE
- DECOMMISSIONED MONITORING WELL
- (831.68) DEEP GROUNDWATER POTENTIOMETRIC ELEVATION IN FEET ABOVE MEAN SEA LEVEL (NA = NOT AVAILABLE)
- 831.8 DEEP GROUNDWATER POTENTIOMETRIC ELEVATION CONTOUR (FT. AMSL)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
4. ALL INVESTIGATION LOCATIONS SURVEYED BY HAWK ENGINEERING, P.C. BINGHAMTON, N.Y. EXCEPT THE FOLLOWING SEDIMENT PROBING AND SAMPLING LOCATIONS:
   - LOCATIONS WITH AN "SS" OR "SF" PREFIX;
   - LOCATIONS WITH A "-2" SUFFIX; AND
   - SEDIMENT SAMPLING LOCATIONS SED-1 AND SED-2.
5. ONLY WELLS INTERPRETED TO BE SCREENED IN THE SAND AND GRAVEL UNITS WERE USED FOR THESE CONTOURS.
6. CONTOUR INTERVAL = 0.2 FEET.
7. STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES. PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.

0 100' 200'

GRAPHIC SCALE

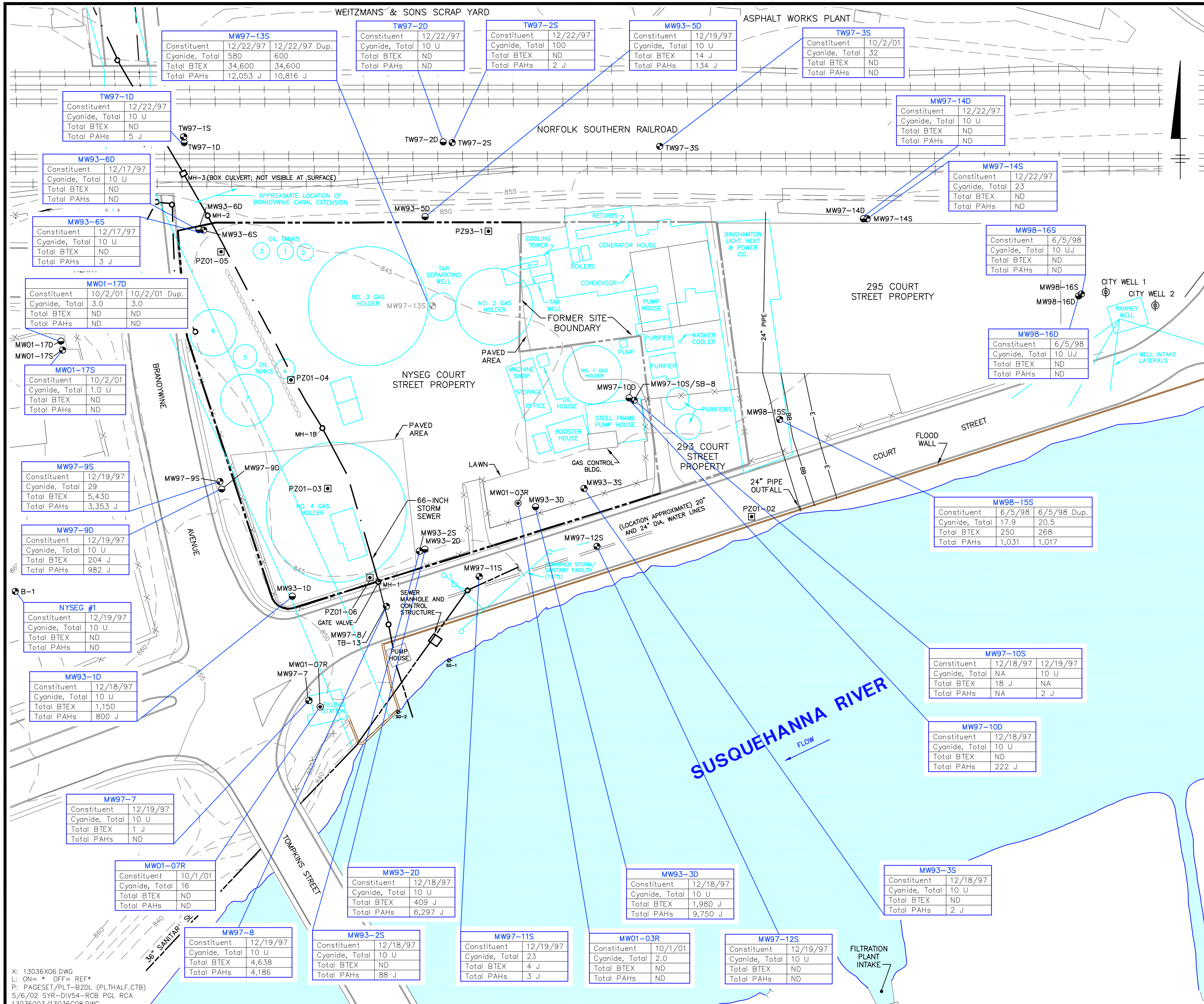
X: 13036X06.DWG
L: ON= * OFF= REF*
P: PAGESET/PLT-B2DL (PLTHALF.CTB)
5/6/02 SYR-DIV54-RCB PGL RCA
13036003/13036T03.DWG

NEW YORK STATE ELECTRIC & GAS CORP.
BINGHAMTON, NEW YORK
COURT STREET SITE
PHASE II SRI

SAND AND GRAVEL UNIT GROUNDWATER POTENTIOMETRIC ELEVATION CONTOUR MAP - OCTOBER 1, 2001

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 12



MW97-13S

Constituent	12/22/97	12/22/97 Dup.
Cyanide, Total	580	600
Total BTEX	34,600	34,600
Total PAHs	12,053 J	10,816 J

TW97-2D

Constituent	12/22/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	ND

TW97-2S

Constituent	12/22/97
Cyanide, Total	100
Total BTEX	ND
Total PAHs	2 J

MW93-5D

Constituent	12/19/97
Cyanide, Total	10 U
Total BTEX	14 J
Total PAHs	134 J

TW97-3S

Constituent	10/2/01
Cyanide, Total	32
Total BTEX	ND
Total PAHs	ND

TW97-1D

Constituent	12/22/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	5 J

MW97-14D

Constituent	12/22/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	ND

MW93-6D

Constituent	12/17/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	ND

MW97-14S

Constituent	12/22/97
Cyanide, Total	23
Total BTEX	ND
Total PAHs	ND

MW93-6S

Constituent	12/17/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	3 J

MW98-16S

Constituent	6/5/98
Cyanide, Total	10 UJ
Total BTEX	ND
Total PAHs	ND

MW01-17D

Constituent	10/2/01	10/2/01 Dup.
Cyanide, Total	3.0	3.0
Total BTEX	ND	ND
Total PAHs	ND	ND

MW98-16D

Constituent	6/5/98
Cyanide, Total	10 UJ
Total BTEX	ND
Total PAHs	ND

MW01-17S

Constituent	10/2/01
Cyanide, Total	1.0 U
Total BTEX	ND
Total PAHs	ND

MW97-9S

Constituent	12/19/97
Cyanide, Total	29
Total BTEX	5,430
Total PAHs	3,353 J

MW98-15S

Constituent	6/5/98	6/5/98 Dup.
Cyanide, Total	17.9	20.5
Total BTEX	250	268
Total PAHs	1,031	1,017

MW97-9D

Constituent	12/19/97
Cyanide, Total	10 U
Total BTEX	204 J
Total PAHs	982 J

NYSEG #1

Constituent	12/19/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	ND

MW97-10S

Constituent	12/18/97	12/19/97
Cyanide, Total	NA	10 U
Total BTEX	18 J	NA
Total PAHs	NA	2 J

MW93-1D

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	1,150
Total PAHs	800 J

MW97-10D

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	222 J

MW97-7

Constituent	12/19/97
Cyanide, Total	10 U
Total BTEX	1 J
Total PAHs	ND

MW01-07R

Constituent	10/1/01
Cyanide, Total	16
Total BTEX	ND
Total PAHs	ND

MW93-2D

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	409 J
Total PAHs	6,297 J

MW93-3D

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	1,980 J
Total PAHs	9,750 J

MW93-3S

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	2 J

MW97-8

Constituent	12/19/97
Cyanide, Total	10 U
Total BTEX	4,638
Total PAHs	4,186

MW93-2S

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	88 J

MW97-11S

Constituent	12/19/97
Cyanide, Total	23
Total BTEX	4 J
Total PAHs	3 J

MW01-03R

Constituent	10/1/01
Cyanide, Total	2.0
Total BTEX	ND
Total PAHs	ND

MW97-12S

Constituent	12/19/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	ND

X: 13036X06.DWG
L: ON= * OFF= REF*
P: PAGESET/PLT-B2DL (PLTHALF.CTB)
5/6/02 SYR-DIV54-RCB PGL RCA
13036003/13036C08.DWG

LEGEND

- FLOOD WALL
- RAILROAD TRACK
- FENCE
- SITE PROPERTY LINES (APPROXIMATE)
- SEWER LINE (APPROXIMATE)
- GROUND SURFACE ELEVATION CONTOUR (FT. AMSL) (840)
- HISTORICAL FEATURE
- BURIED CONCRETE WALL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- MONITORING WELL (BEDROCK)
- PIEZOMETER
- CITY MONITORING WELL
- STAFF GAUGE
- DECOMMISSIONED MONITORING WELL

MW93-3S — SAMPLE ID

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	2 J

- 12/18/97 — SAMPLE DATE
- Cyanide, Total — TOTAL CYANIDE
- Total BTEX — BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENE
- Total PAHs — TOTAL POLYNUCLEAR AROMATIC HYDROCARBONS

RESULTS ARE IN MICROGRAMS PER LITER (ug/L) EQUIVALENT TO PARTS PER BILLION (ppb)

- U — CYANIDE CONCENTRATION WAS NOT DETECTED ABOVE THE INDICATED INSTRUMENT DETECTION LIMIT
- ND — CONCENTRATIONS WERE NOT DETECTED ABOVE THE INSTRUMENT DETECTION LIMIT
- J — ESTIMATED VALUE
- Dup. — DUPLICATE SAMPLE

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
4. ALL INVESTIGATION LOCATIONS SURVEYED BY HAWK ENGINEERING, P.C. BINGHAMTON, N.Y. EXCEPT THE FOLLOWING SEDIMENT PROBING AND SAMPLING LOCATIONS:
   - LOCATIONS WITH AN "SS" OR "SF" PREFIX;
   - LOCATIONS WITH A "-2" SUFFIX; AND
   - SEDIMENT SAMPLING LOCATIONS SED-1 AND SED-2.

0 100' 200'
GRAPHIC SCALE

NEW YORK STATE ELECTRIC & GAS CORP.
BINGHAMTON, NEW YORK
COURT STREET SITE
PHASE II SRI

SUMMARY OF GROUNDWATER ANALYTICAL DATA

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE 13

Attachment 2

Groundwater Sampling Logs

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30045314.20 Well ID PZ93-1 Date 11/23/20

Project Name/Location NYSEG- Binghamton Former MGP Site Weather 38F Cloudy

Measuring Pt. Description TOC Screen Setting (ft-bmp) — Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 10.22' Total Depth (ft-bmp) 12.29 Water Column (ft) 2.07 Gallons in Well 0.3

MP Elevation — Pump Intake (ft-bmp) 11.5 Purge Method: peri (Centrifugal / Submersible / Other) Sample Method peri

Pump On/Off 1150/1241 Volumes Purged 4

Sample Time: Label 1236 Gallons Purged 2.2 Sampled by TP

Purge Start 1230 Replicate/ Code No. —

Purge End 1241

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos)/(mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C)/(°F) ±3%	Redox (mV) ±10mV	Appearance Color	Appearance Odor
1201	5	100	10.27	0	7.22	1,242	>1000	99.4	12.38	-247	Gray	Odorless
1206	10	100	10.29	0.2	7.15	1,224	877	4.09	12.45	-283	clear	ed
1211	15	100	10.29	0.4	7.12	1240	523	4.50	12.49	-285	Clear	Organic
1216	20	100	10.28	0.6	7.09	1.280	202	3.99	12.72	-284	Clear	Organic
1221	25	100	10.28	0.8	7.08	1,298	83	3.68	12.77	-288	Clear	Organic
1226	30	100	10.28	1.0	7.08	1.293	64	3.04	12.72	-281	Clear	Organic
1231	35	100	10.29	1.2	7.08	1.282	52	2.68	12.88	-2.79	Clear	Organic
1236												
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012-B Cyanide, Total	250mL Plastic	1	NaOH
8270-D PAH SVOC	250mL Glass Amber	2	None
8260C - BTEX	40mL VOA Vial	3	HCl

Comments

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: Grassed Area, Protected by bollards Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: —

LOW-FLOW GROUNDWATER SAMPLING FORM

ARCADIS

Project No. 30045314.20 Well ID MW93-05D Date 11/23/20

Project Name/Location NUSEC - Binghamton Former MGP Site Weather 38°F Cloudy

Measuring Pt. Description Notch @ TIC Screen Setting (ft-bmp) - Casing Diameter (in.) 2" Well Material PVC [X] SS

Static Water Level (ft-bmp) 15.54 Total Depth (ft-bmp) 59.15 Water Column (ft) 43.61 Gallons in Well 7.0

MP Elevation - Pump Intake (ft-bmp) ~57' Purge Method: Peristaltic / Centrifugal / Submersible / Other Sample Method Peristaltic

Pump On/Off 1214 / 1302 Volumes Purged 0.3

Sample Time: Label 1258 Gallons Purged 1.9 Sampled by JMM

Purge Start 1258

Purge End 1302 Replicate/ Code No. -

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos)/(mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C)/(°F) ±3%	Redox (mV) ±10mV	Appearance Color	Appearance Odor
1218	4	150	15.78	0	8.85	1.530	96	8.53	11.5	296.5	colorless	odorless
1223	9	150	15.77	0.25	8.76	1.494	104	8.45	11.1	233.8	"	"
1228	14	150	15.77	0.5	8.72	1.496	88	8.22	11.3	243.4	"	"
1233	19	150	15.77	0.75	8.52	1.537	66	6.87	11.3	261.9	"	"
1238	24	150	15.77	1.0	8.13	1.587	59	5.67	11.8	275.3	"	"
1243	29	150	15.77	1.25	7.50	1.730	47	2.94	11.2	296.5	"	"
1248	34	150	15.77	1.5	7.53	1.737	44	2.90	11.2	293.0	"	"
~~1253~~	39	150	15.77	1.7	7.54	1.739	44	2.97	11.2	294.7	"	"
1258	44	150		2.9								
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012B - Total Cyanide	250mL Plastic	1	NaOH
8270D - PAH SVOCs	250mL Glass Amber	2	None
8260C - BTEX	40mL VOA Vial	3	HCl

Comments

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Protected by bollards, GRAVEL ARE

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: GATE KEY

LOW-FLOW GROUNDWATER SAMPLING FORM

ARCADIS

Page 1 of 1

Project No. 30045314.20 Well ID MW-97-14-D Date 11/23/20

Project Name/Location NYSEG-Binghamton Former MGP Site Weather 42-F Partly Sunny

Measuring Pt. Description highest pt of PVC Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 13.12' Total Depth (ft-bmp) 38.25 Water Column (ft) 25.08 Gallons in Well 4.0

MP Elevation _____ Pump Intake (ft-bmp) ~36' Purge Method: Peristaltic / Centrifugal / Submersible / Other _____ Sample Method PEN

Pump On/Off 1336/1435 Volumes Purged 0.6

Sample Time: Label 1415 Gallons Purged 2.3

Purge Start 1405

Purge End 1435

Replicate/ Code No. —

Sampled by JMH

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos)/(mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C)/(°F) ±3%	Redox (mV) ±10mV	Appearance Color	Appearance Odor
1340	4	150	13.84	0	7.30	1.858	189	1.25	11.8	-154.8	clear/tan	slight
1345	9	150	13.74	0.4	7.17	1.894	74	0.69	11.3	-205.5	"	"
1350	14	150	13.74	0.7	7.14	1.898	51	0.60	11.3	223.3	"	"
1355	19	150	13.74	1.2	7.12	1.899	36	1.09	11.4	-220.6	"	"
1400	24	150	13.74	1.5	7.12	1.903	24	0.77	11.4	-220.1	"	"
1405	29	150	13.74	1.7	7.11	1.903	18	0.93	11.5	-201.5	"	"
~~1410~~	34	150	13.74	2.0	7.11	1.903	16	0.74	11.5	-219.2	"	"
1415				~2.3								
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012B-L Cyanide, Total	250mL Plastic	1	N_2OH
8270D - PAH SVOCs	250mL Glass Amber	2	None
8260C - BTEX	40mL VOA Vial	3	HCl

Comments * MS / MSD *

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.25; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Asphalt

Condition of Well: Poor

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: —

* PVC broken, Curb box settled/shifted *

LOW-FLOW GROUNDWATER SAMPLING FORM

ARCADIS

Page 1 of 1

Project No. 30045314.20 Well ID MW-97-14-S Date 11/23/20

Project Name/Location NUSEG - Binghamton Former MGP Site Weather 42°F Partly Sunny

Measuring Pt. Description TIC Screen Setting (ft-bmp) — Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) 13.25 Total Depth (ft-bmp) 19.00 Water Column (ft) 5.75 Gallons in Well 0.9

MP Elevation — Pump Intake (ft-bmp) ~17' Purge Method: Peri Centrifugal Submersible Other Sample Method peri

Pump On/Off 1400 / 1440 Volumes Purged 1.7

Sample Time: Label 1435 Gallons Purged 1.6

Purge Start 1435

Purge End 1440

Replicate/ Code No. DUP112320 Sampled by TP

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min ±	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance Color	Appearance Odor
1400	5	150	13.25	0	7.05	0.542	11000	6.50	12.25	5.1	Brown	odorless
1405	10	150	13.25	0.75	6.96	0.539	6666	5.95	12.23	4.5	Clear	" "
1410	15	150	13.25	0.5	6.91	0.538	202	5.25	12.15	2.0	Clear	" "
1415	20	150	13.25	0.75	6.89	0.536	82	5.08	11.99	2.4	Clear	" "
1420	25	150	13.25	1.0	6.87	0.534	77	4.89	12.07	-3.4	Clear	" "
1425	30	150	13.25	1.25	6.86	0.528	43	4.82	11.87	0.2	Clear	" "
1430	35	150	13.25	1.5	6.81	0.515	39	4.84	11.51	-0.4	Clear	" "
1435	40	150	13.25	~1.6	6.80	0.516	33	4.62	11.68	0.5	Clear	" "
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012B - Cyanide, Total	250mL Plastic	1	NaOH
8270D - PAH SVOCs	250mL Glass Amber	2	None
8260D - BTEX	40mL VOA Vial	3	HCl

Comments Well missing J plug and bolts *DUP collected

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.25 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: Asphalt

Condition of Well: Good except notes above.

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: —

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No. 30045314.20 Well ID MW-01-17-S Date 11/24/20

Project Name/Location NYSEG- Binghamton Former MGP Site Weather 40°F, Cloudy

Measuring Pt. Description Mark TIC Screen Setting (ft-bmp) _____ Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-bmp) "Dry" Total Depth (ft-bmp) 29.45 Water Column (ft) _____ Gallons in Well _____

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: _____ Centrifugal _____ Submersible _____ Other _____ Sample Method _____

Pump On/Off _____ Volumes Purged _____

Sample Time: Label _____ Gallons Purged _____ Sampled by _____

Purge Start _____ Replicate/

Purge End _____ Code No. _____

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ± 0.1	Cond. (µMhos)/(mS/cm) ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C)/(°F) ± 3%	Redox (mV) ± 10mV	Appearance	
											Color	Odor
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative

Comments * SCREEN APPEARS TO HAVE BEEN SILTED IN, UNABLE TO SAMPLE *

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location:	CONCRETE SLAB	Well Locked at Arrival:	Yes / (No)
Condition of Well:	GOOD	Well Locked at Departure:	Yes / (No)
Well Completion:	(Flush Mount) Stick Up	Key Number To Well:	—

LOW-FLOW GROUNDWATER SAMPLING FORM

ARCADIS

Page 1 of 1

Project No. 30045314.20 Well ID MW-01-17-D Date 11/24/20

Project Name/Location NYSEG: Binghamton Former MGP Site Weather 40°F Cloudy

Measuring Pt. Description Mark on PVC Screen Setting (ft-bmp) — Casing Diameter (in.) 2" Well Material ☒ PVC ☐ SS

Static Water Level (ft-bmp) 29.28' Total Depth (ft-bmp) 58.75' Water Column (ft) 29.47 Gallons in Well 4.7

MP Elevation — Pump Intake (ft-bmp) ~55' Purge Method: ☒ Peristaltic ☐ Centrifugal ☐ Submersible ☐ Other Sample Method Peristaltic

Pump On/Off 0950/1030 Volumes Purged 0.3

Sample Time: Label 1026 Purge Start 1024 Purge End 1030 Gallons Purged ~1.6 Replicate/ Code No. — Sampled by JMS

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos)/(mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C)/(°F) ±3%	Redox (mV) ±10mV	Appearance Color	Appearance Odor
0958	8	150	29.27	.1	6.94	1.889	>1000	1.14	11.8	88.3	Brown	odorless
1003	13	150	29.38	.1	6.88	1,904	221	1.23	11.7	92.4	clear	odorless
1008	18	150	29.38	.1	6.88	1.904	101	1.26	11.9	92.7	"	"
1013	23	150	29.38	1.0	6.88	1.908	77	0.65	12.1	92.7	"	"
1018	28	150	29.38	1.2	6.86	1.911	54	0.67	12.0	94.2	"	"
1023	33	150	29.38	1.4	6.87	1.910	49	0.63	12.0	93.6	"	"
1026	36	150	29.38	1.6								
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012B Cyanide, Total	250mL Plastic	1	NaOH
8270D PAH SVOCs	250mL Glass Amber	2	None
8260C - BTEX	40mL VOA Vials	3	HCl

Comments

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Concrete Slab Well Locked at Arrival: Yes / (No)

Condition of Well: Good Well Locked at Departure: Yes / (No)

Well Completion: (Flush Mount) / Stick Up Key Number To Well: —

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30045314.20 Well ID 92-03-01-D* Date 11/24/20

Project Name/Location NYSEG - Binghamton Former MGP Site Weather 41°F, Cloudy

Measuring Pt. Description MoK TIC Screen Setting (ft-bmp) – Casing Diameter (in.) 2" Well Material X PVC SS

Static Water Level (ft-bmp) 16.54 Total Depth (ft-bmp) 108.79' Water Column (ft) 92.25 Gallons in Well 14.76

MP Elevation – Pump Intake (ft-bmp) ~105 Purge Method: peri Centrifugal Submersible Other Sample Method peri

Pump On/Off 1200 / 1229 Volumes Purged ~0.2

Sample Time: Label 1224 Purge Start 1224 Purge End 1229 Gallons Purged ~2.5 Replicate/ Code No. – Sampled by JM

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µMhos)/(mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C)/(°F) ±3%	Redox (mV) ±10mV	Appearance Color	Appearance Odor
1204	4	500	16.54'	0.5	8.99	0.588	108	1.34	11.9	125.4	clear	colorless
1209	9	300	16.56	1.0	8.92	0.590	121	0.79	11.6	117.1		
1214	14	300	16.56	1.6	8.89	0.588	48	0.74	11.7	106.6		
1219	19	300	16.56	2.0	8.90	0.591	44	0.77	11.7	104.3		
1224	24	300	16.56	2.5								
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012B, L-Cyanide, Total	250mL Plastic	1	NaOH
8270D-PAH SVOCs	250mL Glass Amber	2	None
8260C-BTEX	40mL VOA Vials	3	HCl

Comments ID on J-Plug = 01-7R

*Well misidentified in the field, actual well ID is MW-01-07-R.

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.25; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Grass Area

Condition of Well: (Good) ~~Cracked~~ Stripped

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: –

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30045314.20 | Well ID MW-97-7* | Date 11/24/20

Project Name/Location NYSEG - Binghamton Former MGP Site | Weather 41°F, Cloudy

Measuring Pt. Description MoK TIC | Screen Setting (ft-bmp) | Casing Diameter (in.) 2" | Well Material ✓ PVC / SS

Static Water Level (ft-bmp) 17.84' | Total Depth (ft-bmp) 41.02' | Water Column (ft) 23.18' | Gallons in Well 3.7

MP Elevation | Pump Intake (ft-bmp) ~39 | Purge Method: Peristaltic / Centrifugal / Submersible / Other | Sample Method peri

Pump On/Off 1225 / 1303 | Volumes Purged ~0.8

Sample Time: Label 1257 | Gallons Purged ~3.0 | Sampled by JM/JM

Purge Start 1225 | Replicate/ Code No. —

Purge End 1303

Time	Minutes Elapsed	Rate (gpm)/(mL/min) 200mL/min +	Depth to Water (ft) -0.3	Gallons Purged	pH ±0.1	Cond. (µS/cm)/(mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10%	Temp. (°C)/(°F) ±3%	Redox (mV) ±10mV	Appearance Color	Appearance Odor
1232	7	300	17.89	0.5	7.07	2142	227	3.29	12.5	-50.6	clear	slight
1237	12	300	18.90	~1.0	7.07	2.375	189	2.50	12.4	-90.2		
1242	17	300	18.54	1.5	7.07	2.369	111	2.54	12.4	-94.6		
1247	22	300	18.61	~2.0	7.07	2.371	75	2.52	12.4	-96.7		
1252	27	300	18.74	2.5	7.07	2.373	32	2.53	12.4	-98.2		
1257	32	300	18.74	~3.0								
Stabilization Calculations (±)												
Stabilization Criteria					± 0.1 s.u.	±3%	± 10% or within 1 NTU (1)	± 10%	±3%	±10 mV		

(1) Turbidity < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
9012B, L-Cyanide, Total	250mL Plastic	1	NaOH
8270D, PAH SVOCs	250mL Glass Amber	2	None
8260C - BTEX	40mL VOA Vials	3	HCl

Comments ID on J-Plug = NMW-01

*Well misidentified in the field, actual well ID is NMW-01.

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: Grass

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well:

Attachment 3

Groundwater Lab Report

ANALYTICAL REPORT

Job Number: 480-178688-1

Job Description: NYSEG Groundwater Analysis - Binghamton,

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, NY 13202

Attention: Mr. Jason Golubski

Approved for release.
John R Schove
Project Manager II
1/27/2021 12:34 PM

John R Schove, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9838
John.Schove@Eurofinset.com
01/27/2021
Revision: 1

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Job Narrative
480-178688-1

Revision
This report has been revised to correct sample ID's.

Comments
No additional comments.

Receipt
The samples were received on 11/25/2020 12:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ93-1 (480-178688-1) and NMW-01 (480-178688-8). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PZ93-1 (480-178688-1) and NMW-01 (480-178688-8). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: PZ93-1 (480-178688-1). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the abundance of target analyte(s): PZ93-1 (480-178688-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

General Chemistry
Methods 335.4, 9012B: The laboratory control sample (LCS) 0.400 mg/L for preparation batch 480-562264 and analytical batch 480-562422 recovered outside control limits for the following analyte: Cyanide, Total. These analytes were biased high in the LCS and were not detected in the associated samples above the reporting limit; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or 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: ARCADIS U.S. Inc
Job ID: 480-178688-1
Project/Site: NYSEG Groundwater Analysis - Binghamton,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178688-1	PZ93-1	Water	11/23/20 12:36	11/25/20 12:00	
480-178688-2	MW93-05D	Water	11/23/20 13:02	11/25/20 12:00	
480-178688-3	MW-97-14-D	Water	11/23/20 14:15	11/25/20 12:00	
480-178688-4	MW-97-14-S	Water	11/23/20 14:35	11/25/20 12:00	
480-178688-5	MW-01-17-D	Water	11/24/20 10:26	11/25/20 12:00	
480-178688-6	DUP112320	Water	11/23/20 00:00	11/25/20 12:00	
480-178688-7	EB112420	Water	11/24/20 09:23	11/25/20 12:00	
480-178688-8	NMW-01	Water	11/24/20 12:57	11/25/20 12:00	
480-178688-9	MW-01-07-R	Water	11/24/20 12:24	11/25/20 12:00	
480-178688-10	TRIP BLANK	Water	11/24/20 00:00	11/25/20 12:00	

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-178688-1
Project/Site: NYSEG Groundwater Analysis - Binghamton,

Client Sample ID: PZ93-1 — Lab Sample ID: 480-178688-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	21		20	8.2	ug/L	20		8260C	Total/NA
Ethylbenzene	920		20	15	ug/L	20		8260C	Total/NA
Toluene	120		20	10	ug/L	20		8260C	Total/NA
Xylenes, Total	450		40	13	ug/L	20		8260C	Total/NA
Acenaphthene	220		25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	2.3	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	4.2	J	25	1.4	ug/L	5		8270D	Total/NA
Fluoranthene	5.7	J	25	2.0	ug/L	5		8270D	Total/NA
Fluorene	84		25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	1100	E	25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	62		25	2.2	ug/L	5		8270D	Total/NA
Pyrene	10	J	25	1.7	ug/L	5		8270D	Total/NA
Acenaphthene - DL	220	J	500	41	ug/L	100		8270D	Total/NA
Fluorene - DL	83	J	500	36	ug/L	100		8270D	Total/NA
Naphthalene - DL	3700		500	76	ug/L	100		8270D	Total/NA
Phenanthrene - DL	66	J	500	44	ug/L	100		8270D	Total/NA
Cyanide, Total	0.011		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW93-05D — Lab Sample ID: 480-178688-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.87	J	5.0	0.40	ug/L	1		8270D	Total/NA
Pyrene	1.4	J	5.0	0.34	ug/L	1		8270D	Total/NA

Client Sample ID: MW-97-14-D — Lab Sample ID: 480-178688-3

No Detections.

Client Sample ID: MW-97-14-S — Lab Sample ID: 480-178688-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0073	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-01-17-D — Lab Sample ID: 480-178688-5

No Detections.

Client Sample ID: DUP112320 — Lab Sample ID: 480-178688-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0089	J F1	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: EB112420 — Lab Sample ID: 480-178688-7

No Detections.

Client Sample ID: NMW-01 — Lab Sample ID: 480-178688-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	160		4.0	1.6	ug/L	4		8260C	Total/NA
Ethylbenzene	3.4	J	4.0	3.0	ug/L	4		8260C	Total/NA
Xylenes, Total	13		8.0	2.6	ug/L	4		8260C	Total/NA
Acenaphthene	85		25	2.1	ug/L	5		8270D	Total/NA
Fluorene	20	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	11	J	25	3.8	ug/L	5		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: NMW-01 (Continued)
Lab Sample ID: 480-178688-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	3.3	J	25	2.2	ug/L	5		8270D	Total/NA
Pyrene	1.8	J	25	1.7	ug/L	5		8270D	Total/NA
Cyanide, Total	0.0084	J B *	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9

No Detections.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-178688-10

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-178688-1
Project/Site: NYSEG Groundwater Analysis - Binghamton,

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

Client Sample ID: PZ93-1
Date Collected: 11/23/20 12:36
Date Received: 11/25/20 12:00

Lab Sample ID: 480-178688-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**21**		20	8.2	ug/L			11/28/20 15:12	20
Ethylbenzene	**920**		20	15	ug/L			11/28/20 15:12	20
Toluene	**120**		20	10	ug/L			11/28/20 15:12	20
Xylenes, Total	**450**		40	13	ug/L			11/28/20 15:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 15:12*	*20*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*11/28/20 15:12*	*20*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*11/28/20 15:12*	*20*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/28/20 15:12*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**220**		25	2.1	ug/L		11/30/20 09:11	12/01/20 23:34	5
Acenaphthylene	**2.3**	**J**	25	1.9	ug/L		11/30/20 09:11	12/01/20 23:34	5
Anthracene	**4.2**	**J**	25	1.4	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[a]anthracene	ND		25	1.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[a]pyrene	ND		25	2.4	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		11/30/20 09:11	12/01/20 23:34	5
Chrysene	ND		25	1.7	ug/L		11/30/20 09:11	12/01/20 23:34	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/30/20 09:11	12/01/20 23:34	5
Fluoranthene	**5.7**	**J**	25	2.0	ug/L		11/30/20 09:11	12/01/20 23:34	5
Fluorene	**84**		25	1.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		11/30/20 09:11	12/01/20 23:34	5
Naphthalene	**1100**	**E**	25	3.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Phenanthrene	**62**		25	2.2	ug/L		11/30/20 09:11	12/01/20 23:34	5
Pyrene	**10**	**J**	25	1.7	ug/L		11/30/20 09:11	12/01/20 23:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 120*	*11/30/20 09:11*	*12/01/20 23:34*	*5*
Nitrobenzene-d5 (Surr)	*75*		*46 - 120*	*11/30/20 09:11*	*12/01/20 23:34*	*5*
p-Terphenyl-d14 (Surr)	*83*		*60 - 148*	*11/30/20 09:11*	*12/01/20 23:34*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**220**	**J**	500	41	ug/L		11/30/20 09:11	12/03/20 23:39	100
Acenaphthylene	ND		500	38	ug/L		11/30/20 09:11	12/03/20 23:39	100
Anthracene	ND		500	28	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[a]anthracene	ND		500	36	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[a]pyrene	ND		500	47	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[b]fluoranthene	ND		500	34	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[g,h,i]perylene	ND		500	35	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[k]fluoranthene	ND		500	73	ug/L		11/30/20 09:11	12/03/20 23:39	100
Chrysene	ND		500	33	ug/L		11/30/20 09:11	12/03/20 23:39	100
Dibenz(a,h)anthracene	ND		500	42	ug/L		11/30/20 09:11	12/03/20 23:39	100
Fluoranthene	ND		500	40	ug/L		11/30/20 09:11	12/03/20 23:39	100
Fluorene	**83**	**J**	500	36	ug/L		11/30/20 09:11	12/03/20 23:39	100
Indeno[1,2,3-cd]pyrene	ND		500	47	ug/L		11/30/20 09:11	12/03/20 23:39	100

Client Sample ID: PZ93-1
Lab Sample ID: 480-178688-1
Date Collected: 11/23/20 12:36
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3700**		500	76	ug/L		11/30/20 09:11	12/03/20 23:39	100
Phenanthrene	**66**	**J**	500	44	ug/L		11/30/20 09:11	12/03/20 23:39	100
Pyrene	ND		500	34	ug/L		11/30/20 09:11	12/03/20 23:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*48 - 120*	*11/30/20 09:11*	*12/03/20 23:39*	*100*
Nitrobenzene-d5 (Surr)	*118*		*46 - 120*	*11/30/20 09:11*	*12/03/20 23:39*	*100*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*11/30/20 09:11*	*12/03/20 23:39*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.011**		0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 19:48	1

Client Sample ID: MW93-05D
Lab Sample ID: 480-178688-2
Date Collected: 11/23/20 13:02
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 15:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 15:37	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 15:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*11/28/20 15:37*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/28/20 15:37*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*11/28/20 15:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/28/20 15:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 00:03	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 00:03	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 00:03	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 00:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 00:03	1
Fluoranthene	**0.87**	**J**	5.0	0.40	ug/L		11/30/20 09:11	12/02/20 00:03	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:03	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 00:03	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 00:03	1
Pyrene	**1.4**	**J**	5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*48 - 120*	*11/30/20 09:11*	*12/02/20 00:03*	*1*

Client Sample ID: MW93-05D
Lab Sample ID: 480-178688-2
Date Collected: 11/23/20 13:02
Matrix: Water
Date Received: 11/25/20 12:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*104*		*46 - 120*	*11/30/20 09:11*	*12/02/20 00:03*	*1*
p-Terphenyl-d14 (Surr)	*107*		*60 - 148*	*11/30/20 09:11*	*12/02/20 00:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 20:09	1

Client Sample ID: MW-97-14-D
Lab Sample ID: 480-178688-3
Date Collected: 11/23/20 14:15
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 16:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 16:02	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 16:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/28/20 16:02*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*11/28/20 16:02*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*11/28/20 16:02*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/28/20 16:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/01/20 20:14	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/01/20 20:14	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[a]anthracene	ND	F2	5.0	0.36	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[a]pyrene	ND	F2	5.0	0.47	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[b]fluoranthene	ND	F2	5.0	0.34	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[g,h,i]perylene	ND	F2	5.0	0.35	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/01/20 20:14	1
Chrysene	ND	F2	5.0	0.33	ug/L		11/30/20 09:11	12/01/20 20:14	1
Dibenz(a,h)anthracene	ND	F2	5.0	0.42	ug/L		11/30/20 09:11	12/01/20 20:14	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/01/20 20:14	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/01/20 20:14	1
Indeno[1,2,3-cd]pyrene	ND	F2	5.0	0.47	ug/L		11/30/20 09:11	12/01/20 20:14	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/01/20 20:14	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/01/20 20:14	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/01/20 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*48 - 120*	*11/30/20 09:11*	*12/01/20 20:14*	*1*
Nitrobenzene-d5 (Surr)	*97*		*46 - 120*	*11/30/20 09:11*	*12/01/20 20:14*	*1*
p-Terphenyl-d14 (Surr)	*102*		*60 - 148*	*11/30/20 09:11*	*12/01/20 20:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1	0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 19:44	1

Client Sample ID: MW-97-14-S
Lab Sample ID: 480-178688-4
Date Collected: 11/23/20 14:35
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 16:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 16:27	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 16:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 16:27*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/28/20 16:27*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*11/28/20 16:27*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/28/20 16:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 00:33	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 00:33	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 00:33	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 00:33	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 00:33	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 00:33	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:33	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 00:33	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 00:33	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*11/30/20 09:11*	*12/02/20 00:33*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*11/30/20 09:11*	*12/02/20 00:33*	*1*
p-Terphenyl-d14 (Surr)	*90*		*60 - 148*	*11/30/20 09:11*	*12/02/20 00:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0073**	**J**	0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 20:10	1

Client Sample ID: MW-01-17-D
Lab Sample ID: 480-178688-5
Date Collected: 11/24/20 10:26
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 16:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 16:51	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 16:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 16:51	1

Client Sample ID: MW-01-17-D
Lab Sample ID: 480-178688-5

Date Collected: 11/24/20 10:26
Matrix: Water
Date Received: 11/25/20 12:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*11/28/20 16:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/28/20 16:51*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*11/28/20 16:51*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/28/20 16:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 01:01	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 01:01	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 01:01	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 01:01	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 01:01	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 01:01	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:01	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 01:01	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 01:01	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*11/30/20 09:11*	*12/02/20 01:01*	*1*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*	*11/30/20 09:11*	*12/02/20 01:01*	*1*
p-Terphenyl-d14 (Surr)	*88*		*60 - 148*	*11/30/20 09:11*	*12/02/20 01:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/03/20 20:30	12/04/20 18:16	1

Client Sample ID: DUP112320
Lab Sample ID: 480-178688-6

Date Collected: 11/23/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 17:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 17:16	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 17:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/28/20 17:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/28/20 17:16*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*11/28/20 17:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/28/20 17:16*	*1*

Client Sample ID: DUP112320
Lab Sample ID: 480-178688-6

Date Collected: 11/23/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 01:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 01:30	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 01:30	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 01:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 01:30	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 01:30	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:30	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 01:30	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 01:30	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*48 - 120*	*11/30/20 09:11*	*12/02/20 01:30*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 120*	*11/30/20 09:11*	*12/02/20 01:30*	*1*
p-Terphenyl-d14 (Surr)	*93*		*60 - 148*	*11/30/20 09:11*	*12/02/20 01:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0089**	**J F1**	0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 20:12	1

Client Sample ID: EB112420
Lab Sample ID: 480-178688-7

Date Collected: 11/24/20 09:23
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 17:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 17:41	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 17:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*11/28/20 17:41*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/28/20 17:41*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*11/28/20 17:41*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/28/20 17:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 01:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 01:58	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:58	1

Client Sample ID: EB112420
Lab Sample ID: 480-178688-7

Date Collected: 11/24/20 09:23
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 01:58	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 01:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 01:58	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 01:58	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:58	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 01:58	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 01:58	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*48 - 120*	*11/30/20 09:11*	*12/02/20 01:58*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*	*11/30/20 09:11*	*12/02/20 01:58*	*1*
p-Terphenyl-d14 (Surr)	*112*		*60 - 148*	*11/30/20 09:11*	*12/02/20 01:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1	0.010	0.0050	mg/L		12/03/20 20:30	12/04/20 18:19	1

Client Sample ID: NMW-01
Lab Sample ID: 480-178688-8

Date Collected: 11/24/20 12:57
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**160**		4.0	1.6	ug/L			11/28/20 18:06	4
Ethylbenzene	**3.4**	**J**	4.0	3.0	ug/L			11/28/20 18:06	4
Toluene	ND		4.0	2.0	ug/L			11/28/20 18:06	4
Xylenes, Total	**13**		8.0	2.6	ug/L			11/28/20 18:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*11/28/20 18:06*	*4*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/28/20 18:06*	*4*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/28/20 18:06*	*4*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/28/20 18:06*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**85**		25	2.1	ug/L		11/30/20 09:11	12/02/20 02:27	5
Acenaphthylene	ND		25	1.9	ug/L		11/30/20 09:11	12/02/20 02:27	5
Anthracene	ND		25	1.4	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[a]anthracene	ND		25	1.8	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[a]pyrene	ND		25	2.4	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		11/30/20 09:11	12/02/20 02:27	5
Chrysene	ND		25	1.7	ug/L		11/30/20 09:11	12/02/20 02:27	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/30/20 09:11	12/02/20 02:27	5
Fluoranthene	ND		25	2.0	ug/L		11/30/20 09:11	12/02/20 02:27	5
Fluorene	**20**	**J**	25	1.8	ug/L		11/30/20 09:11	12/02/20 02:27	5

Client Sample ID: NMW-01
Lab Sample ID: 480-178688-8
Date Collected: 11/24/20 12:57
Matrix: Water
Date Received: 11/25/20 12:00

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		25	2.4	ug/L		11/30/20 09:11	12/02/20 02:27	5
Naphthalene	**11**	**J**	25	3.8	ug/L		11/30/20 09:11	12/02/20 02:27	5
Phenanthrene	**3.3**	**J**	25	2.2	ug/L		11/30/20 09:11	12/02/20 02:27	5
Pyrene	**1.8**	**J**	25	1.7	ug/L		11/30/20 09:11	12/02/20 02:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*48 - 120*	*11/30/20 09:11*	*12/02/20 02:27*	*5*
Nitrobenzene-d5 (Surr)	*74*		*46 - 120*	*11/30/20 09:11*	*12/02/20 02:27*	*5*
p-Terphenyl-d14 (Surr)	*70*		*60 - 148*	*11/30/20 09:11*	*12/02/20 02:27*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0084**	**J B ***	0.010	0.0050	mg/L		12/07/20 17:26	12/08/20 16:39	1

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9
Date Collected: 11/24/20 12:24
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 18:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 18:30	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 18:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*11/28/20 18:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/28/20 18:30*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/28/20 18:30*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/28/20 18:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 02:55	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 02:55	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 02:55	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 02:55	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 02:55	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 02:55	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 02:55	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 02:55	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 02:55	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 02:55	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 02:55	1

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9

Date Collected: 11/24/20 12:24
Matrix: Water
Date Received: 11/25/20 12:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*48 - 120*	*11/30/20 09:11*	*12/02/20 02:55*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 120*	*11/30/20 09:11*	*12/02/20 02:55*	*1*
p-Terphenyl-d14 (Surr)	*95*		*60 - 148*	*11/30/20 09:11*	*12/02/20 02:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	*	0.010	0.0050	mg/L		12/07/20 17:26	12/08/20 16:10	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-178688-10

Date Collected: 11/24/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 18:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 18:55	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 18:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 18:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/28/20 18:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*11/28/20 18:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/28/20 18:55*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-178688-1
Project/Site: NYSEG Groundwater Analysis - Binghamton,

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-178688-1	PZ93-1	98	97	115	95
480-178688-2	MW93-05D	103	93	112	96
480-178688-3	MW-97-14-D	100	92	109	96
480-178688-3 MS	MW-97-14-D MS	103	93	101	93
480-178688-3 MSD	MW-97-14-D MSD	95	95	100	95
480-178688-4	MW-97-14-S	98	91	104	94
480-178688-5	MW-01-17-D	97	95	107	97
480-178688-6	DUP112320	95	98	105	101
480-178688-7	EB112420	94	91	106	93
480-178688-8	NMW-01	94	93	100	94
480-178688-9	MW-01-07-R	91	93	101	94
480-178688-10	TRIP BLANK	98	95	104	99
LCS 480-561174/38	Lab Control Sample	91	92	97	92
MB 480-561174/7	Method Blank	98	94	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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)	(60-148)
480-178688-1	PZ93-1	89	75	83
480-178688-1 - DL	PZ93-1	88	118	79
480-178688-2	MW93-05D	111	104	107
480-178688-3	MW-97-14-D	99	97	102
480-178688-3 MS	MW-97-14-D MS	87	81	81
480-178688-3 MSD	MW-97-14-D MSD	94	90	92
480-178688-4	MW-97-14-S	100	93	90
480-178688-5	MW-01-17-D	92	88	88
480-178688-6	DUP112320	101	96	93
480-178688-7	EB112420	101	100	112
480-178688-8	NMW-01	81	74	70
480-178688-9	MW-01-07-R	83	79	95
LCS 480-561284/2-A	Lab Control Sample	78	75	91
MB 480-561284/1-A	Method Blank	92	89	114

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 480-561174/7
Matrix: Water
Analysis Batch: 561174

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			11/28/20 13:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 13:49	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 13:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 13:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 13:49*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*11/28/20 13:49*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/28/20 13:49*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/28/20 13:49*	*1*

Lab Sample ID: LCS 480-561174/38
Matrix: Water
Analysis Batch: 561174

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	25.7		ug/L		103	71 - 124
Ethylbenzene	25.0	25.3		ug/L		101	77 - 123
Toluene	25.0	24.4		ug/L		97	80 - 122
Xylenes, Total	50.0	51.3		ug/L		103	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: 480-178688-3 MS
Matrix: Water
Analysis Batch: 561174

Client Sample ID: MW-97-14-D MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.4		ug/L		106	71 - 124
Ethylbenzene	ND		25.0	26.3		ug/L		105	77 - 123
Toluene	ND		25.0	25.8		ug/L		103	80 - 122
Xylenes, Total	ND		50.0	53.6		ug/L		107	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
Toluene-d8 (Surr)	*93*		*80 - 120*

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

Lab Sample ID: 480-178688-3 MSD
Matrix: Water
Analysis Batch: 561174

Client Sample ID: MW-97-14-D MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	26.4		ug/L		105	71 - 124	0	13
Ethylbenzene	ND		25.0	26.7		ug/L		107	77 - 123	2	15
Toluene	ND		25.0	25.9		ug/L		104	80 - 122	1	15
Xylenes, Total	ND		50.0	54.1		ug/L		108	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*95*		*80 - 120*

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

Lab Sample ID: MB 480-561284/1-A
Matrix: Water
Analysis Batch: 561494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 561284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/01/20 18:20	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/01/20 18:20	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/01/20 18:20	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/01/20 18:20	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/01/20 18:20	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/01/20 18:20	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/01/20 18:20	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/01/20 18:20	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/01/20 18:20	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/01/20 18:20	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/01/20 18:20	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/01/20 18:20	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/01/20 18:20	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/01/20 18:20	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/01/20 18:20	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/01/20 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*11/30/20 09:11*	*12/01/20 18:20*	*1*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*	*11/30/20 09:11*	*12/01/20 18:20*	*1*
p-Terphenyl-d14 (Surr)	*114*		*60 - 148*	*11/30/20 09:11*	*12/01/20 18:20*	*1*

Lab Sample ID: LCS 480-561284/2-A
Matrix: Water
Analysis Batch: 561494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 561284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			32.0	26.3		ug/L		82	60 - 120		
Acenaphthylene			32.0	25.8		ug/L		81	63 - 120		
Anthracene			32.0	27.2		ug/L		85	67 - 120		

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

Lab Sample ID: LCS 480-561284/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 561494
Prep Batch: 561284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	32.0	28.2		ug/L		88	70 - 121
Benzo[a]pyrene	32.0	29.6		ug/L		93	60 - 123
Benzo[b]fluoranthene	32.0	32.1		ug/L		100	66 - 126
Benzo[g,h,i]perylene	32.0	31.9		ug/L		100	66 - 150
Benzo[k]fluoranthene	32.0	31.7		ug/L		99	65 - 124
Chrysene	32.0	28.0		ug/L		88	69 - 120
Dibenz(a,h)anthracene	32.0	31.1		ug/L		97	65 - 135
Fluoranthene	32.0	27.7		ug/L		87	69 - 126
Fluorene	32.0	27.6		ug/L		86	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	30.7		ug/L		96	69 - 146
Naphthalene	32.0	23.7		ug/L		74	57 - 120
Phenanthrene	32.0	26.9		ug/L		84	68 - 120
Pyrene	32.0	29.4		ug/L		92	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*48 - 120*
Nitrobenzene-d5 (Surr)	*75*		*46 - 120*
p-Terphenyl-d14 (Surr)	*91*		*60 - 148*

Lab Sample ID: 480-178688-3 MS
Client Sample ID: MW-97-14-D MS
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 561494
Prep Batch: 561284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		32.0	28.0		ug/L		87	48 - 120
Acenaphthylene	ND		32.0	28.2		ug/L		88	63 - 120
Anthracene	ND		32.0	28.8		ug/L		90	65 - 122
Benzo[a]anthracene	ND	F2	32.0	27.0		ug/L		85	43 - 124
Benzo[a]pyrene	ND	F2	32.0	28.8		ug/L		90	23 - 125
Benzo[b]fluoranthene	ND	F2	32.0	30.2		ug/L		94	27 - 127
Benzo[g,h,i]perylene	ND	F2	32.0	29.2		ug/L		91	16 - 147
Benzo[k]fluoranthene	ND		32.0	29.4		ug/L		92	20 - 124
Chrysene	ND	F2	32.0	26.6		ug/L		83	44 - 122
Dibenz(a,h)anthracene	ND	F2	32.0	27.6		ug/L		86	16 - 139
Fluoranthene	ND		32.0	29.2		ug/L		91	63 - 129
Fluorene	ND		32.0	29.9		ug/L		93	62 - 120
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	27.8		ug/L		87	16 - 140
Naphthalene	ND		32.0	25.2		ug/L		79	45 - 120
Phenanthrene	ND		32.0	29.0		ug/L		91	65 - 122
Pyrene	ND		32.0	30.2		ug/L		94	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*48 - 120*
Nitrobenzene-d5 (Surr)	*81*		*46 - 120*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*

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

Lab Sample ID: 480-178688-3 MSD
Client Sample ID: MW-97-14-D MSD
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 561494
Prep Batch: 561284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		33.3	31.9		ug/L		96	48 - 120	13	24
Acenaphthylene	ND		33.3	31.6		ug/L		95	63 - 120	11	18
Anthracene	ND		33.3	32.7		ug/L		98	65 - 122	13	15
Benzo[a]anthracene	ND	F2	33.3	32.0	F2	ug/L		96	43 - 124	17	15
Benzo[a]pyrene	ND	F2	33.3	34.3	F2	ug/L		103	23 - 125	17	15
Benzo[b]fluoranthene	ND	F2	33.3	35.9	F2	ug/L		108	27 - 127	17	15
Benzo[g,h,i]perylene	ND	F2	33.3	35.2	F2	ug/L		106	16 - 147	19	15
Benzo[k]fluoranthene	ND		33.3	36.2		ug/L		109	20 - 124	21	22
Chrysene	ND	F2	33.3	31.5	F2	ug/L		94	44 - 122	17	15
Dibenz(a,h)anthracene	ND	F2	33.3	33.9	F2	ug/L		102	16 - 139	20	15
Fluoranthene	ND		33.3	33.1		ug/L		99	63 - 129	12	15
Fluorene	ND		33.3	33.3		ug/L		100	62 - 120	11	15
Indeno[1,2,3-cd]pyrene	ND	F2	33.3	33.8	F2	ug/L		101	16 - 140	20	15
Naphthalene	ND		33.3	29.3		ug/L		88	45 - 120	15	29
Phenanthrene	ND		33.3	32.5		ug/L		97	65 - 122	11	15
Pyrene	ND		33.3	35.1		ug/L		105	58 - 128	15	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*48 - 120*
Nitrobenzene-d5 (Surr)	*90*		*46 - 120*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-561917/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 562067
Prep Batch: 561917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/03/20 20:30	12/04/20 18:10	1

Lab Sample ID: LCS 480-561917/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 562067
Prep Batch: 561917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.400	0.413		mg/L		103	90 - 110		

Lab Sample ID: LCS 480-561917/3-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 562067
Prep Batch: 561917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.259		mg/L		104	90 - 110		

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

Lab Sample ID: 480-178688-7 MS
Matrix: Water
Analysis Batch: 562067

Client Sample ID: EB112420
Prep Type: Total/NA
Prep Batch: 561917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND	F1	0.100	0.0884	F1	mg/L		88	90 - 110

Lab Sample ID: 480-178688-5 DU
Matrix: Water
Analysis Batch: 562067

Client Sample ID: MW-01-17-D
Prep Type: Total/NA
Prep Batch: 561917

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/L		NC	15

Lab Sample ID: MB 480-561919/1-A
Matrix: Water
Analysis Batch: 562067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 561919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 19:37	1

Lab Sample ID: LCS 480-561919/2-A
Matrix: Water
Analysis Batch: 562067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 561919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.259		mg/L		104	90 - 110

Lab Sample ID: 480-178688-3 MS
Matrix: Water
Analysis Batch: 562067

Client Sample ID: MW-97-14-D MS
Prep Type: Total/NA
Prep Batch: 561919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND	F1	0.100	0.0867	F1	mg/L		87	90 - 110

Lab Sample ID: 480-178688-3 MSD
Matrix: Water
Analysis Batch: 562067

Client Sample ID: MW-97-14-D MSD
Prep Type: Total/NA
Prep Batch: 561919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND	F1	0.100	0.0852	F1	mg/L		85	90 - 110	2	15

Lab Sample ID: 480-178688-6 MS
Matrix: Water
Analysis Batch: 562067

Client Sample ID: DUP112320
Prep Type: Total/NA
Prep Batch: 561919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0089	J F1	0.100	0.0932	F1	mg/L		84	90 - 110

Lab Sample ID: MB 480-562264/1-A
Matrix: Water
Analysis Batch: 562422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 562264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00558	J	0.010	0.0050	mg/L		12/07/20 17:26	12/08/20 15:59	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: LCS 480-562264/2-A
Matrix: Water
Analysis Batch: 562422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562264

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.400	0.448	*	mg/L		112	90 - 110		

Lab Sample ID: LCS 480-562264/3-A
Matrix: Water
Analysis Batch: 562422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562264

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.261		mg/L		104	90 - 110		

Lab Sample ID: 480-178688-9 MS
Matrix: Water
Analysis Batch: 562422

Client Sample ID: MW-01-07-R
Prep Type: Total/NA
Prep Batch: 562264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND	*	0.100	0.100		mg/L		100	90 - 110		

Lab Sample ID: 480-178688-8 DU
Matrix: Water
Analysis Batch: 562422

Client Sample ID: NMW-01
Prep Type: Total/NA
Prep Batch: 562264

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.0084	J B *		0.00883	J *	mg/L				5	15

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
E	Result exceeded calibration range.
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.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery 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.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 561174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-1	PZ93-1	Total/NA	Water	8260C	
480-178688-2	MW93-05D	Total/NA	Water	8260C	
480-178688-3	MW-97-14-D	Total/NA	Water	8260C	
480-178688-4	MW-97-14-S	Total/NA	Water	8260C	
480-178688-5	MW-01-17-D	Total/NA	Water	8260C	
480-178688-6	DUP112320	Total/NA	Water	8260C	
480-178688-7	EB112420	Total/NA	Water	8260C	
480-178688-8	NMW-01	Total/NA	Water	8260C	
480-178688-9	MW-01-07-R	Total/NA	Water	8260C	
480-178688-10	TRIP BLANK	Total/NA	Water	8260C	
MB 480-561174/7	Method Blank	Total/NA	Water	8260C	
LCS 480-561174/38	Lab Control Sample	Total/NA	Water	8260C	
480-178688-3 MS	MW-97-14-D MS	Total/NA	Water	8260C	
480-178688-3 MSD	MW-97-14-D MSD	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 561284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-1 - DL	PZ93-1	Total/NA	Water	3510C	
480-178688-1	PZ93-1	Total/NA	Water	3510C	
480-178688-2	MW93-05D	Total/NA	Water	3510C	
480-178688-3	MW-97-14-D	Total/NA	Water	3510C	
480-178688-4	MW-97-14-S	Total/NA	Water	3510C	
480-178688-5	MW-01-17-D	Total/NA	Water	3510C	
480-178688-6	DUP112320	Total/NA	Water	3510C	
480-178688-7	EB112420	Total/NA	Water	3510C	
480-178688-8	NMW-01	Total/NA	Water	3510C	
480-178688-9	MW-01-07-R	Total/NA	Water	3510C	
MB 480-561284/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-561284/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-178688-3 MS	MW-97-14-D MS	Total/NA	Water	3510C	
480-178688-3 MSD	MW-97-14-D MSD	Total/NA	Water	3510C	

Analysis Batch: 561494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-1	PZ93-1	Total/NA	Water	8270D	561284
480-178688-2	MW93-05D	Total/NA	Water	8270D	561284
480-178688-3	MW-97-14-D	Total/NA	Water	8270D	561284
480-178688-4	MW-97-14-S	Total/NA	Water	8270D	561284
480-178688-5	MW-01-17-D	Total/NA	Water	8270D	561284
480-178688-6	DUP112320	Total/NA	Water	8270D	561284
480-178688-7	EB112420	Total/NA	Water	8270D	561284
480-178688-8	NMW-01	Total/NA	Water	8270D	561284
480-178688-9	MW-01-07-R	Total/NA	Water	8270D	561284
MB 480-561284/1-A	Method Blank	Total/NA	Water	8270D	561284
LCS 480-561284/2-A	Lab Control Sample	Total/NA	Water	8270D	561284
480-178688-3 MS	MW-97-14-D MS	Total/NA	Water	8270D	561284
480-178688-3 MSD	MW-97-14-D MSD	Total/NA	Water	8270D	561284

GC/MS Semi VOA

Analysis Batch: 561842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-1 - DL	PZ93-1	Total/NA	Water	8270D	561284

General Chemistry

Prep Batch: 561917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-5	MW-01-17-D	Total/NA	Water	9012B	
480-178688-7	EB112420	Total/NA	Water	9012B	
MB 480-561917/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-561917/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-561917/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-178688-7 MS	EB112420	Total/NA	Water	9012B	
480-178688-5 DU	MW-01-17-D	Total/NA	Water	9012B	

Prep Batch: 561919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-1	PZ93-1	Total/NA	Water	9012B	
480-178688-2	MW93-05D	Total/NA	Water	9012B	
480-178688-3	MW-97-14-D	Total/NA	Water	9012B	
480-178688-4	MW-97-14-S	Total/NA	Water	9012B	
480-178688-6	DUP112320	Total/NA	Water	9012B	
MB 480-561919/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-561919/2-A	Lab Control Sample	Total/NA	Water	9012B	
480-178688-3 MS	MW-97-14-D MS	Total/NA	Water	9012B	
480-178688-3 MSD	MW-97-14-D MSD	Total/NA	Water	9012B	
480-178688-6 MS	DUP112320	Total/NA	Water	9012B	

Analysis Batch: 562067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-1	PZ93-1	Total/NA	Water	9012B	561919
480-178688-2	MW93-05D	Total/NA	Water	9012B	561919
480-178688-3	MW-97-14-D	Total/NA	Water	9012B	561919
480-178688-4	MW-97-14-S	Total/NA	Water	9012B	561919
480-178688-5	MW-01-17-D	Total/NA	Water	9012B	561917
480-178688-6	DUP112320	Total/NA	Water	9012B	561919
480-178688-7	EB112420	Total/NA	Water	9012B	561917
MB 480-561917/1-A	Method Blank	Total/NA	Water	9012B	561917
MB 480-561919/1-A	Method Blank	Total/NA	Water	9012B	561919
LCS 480-561917/2-A	Lab Control Sample	Total/NA	Water	9012B	561917
LCS 480-561917/3-A	Lab Control Sample	Total/NA	Water	9012B	561917
LCS 480-561919/2-A	Lab Control Sample	Total/NA	Water	9012B	561919
480-178688-3 MS	MW-97-14-D MS	Total/NA	Water	9012B	561919
480-178688-3 MSD	MW-97-14-D MSD	Total/NA	Water	9012B	561919
480-178688-6 MS	DUP112320	Total/NA	Water	9012B	561919
480-178688-7 MS	EB112420	Total/NA	Water	9012B	561917
480-178688-5 DU	MW-01-17-D	Total/NA	Water	9012B	561917

Prep Batch: 562264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-8	NMW-01	Total/NA	Water	9012B	
480-178688-9	MW-01-07-R	Total/NA	Water	9012B	

General Chemistry (Continued)

Prep Batch: 562264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-562264/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-562264/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-562264/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-178688-9 MS	MW-01-07-R	Total/NA	Water	9012B	
480-178688-8 DU	NMW-01	Total/NA	Water	9012B	

Analysis Batch: 562422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178688-8	NMW-01	Total/NA	Water	9012B	562264
480-178688-9	MW-01-07-R	Total/NA	Water	9012B	562264
MB 480-562264/1-A	Method Blank	Total/NA	Water	9012B	562264
LCS 480-562264/2-A	Lab Control Sample	Total/NA	Water	9012B	562264
LCS 480-562264/3-A	Lab Control Sample	Total/NA	Water	9012B	562264
480-178688-9 MS	MW-01-07-R	Total/NA	Water	9012B	562264
480-178688-8 DU	NMW-01	Total/NA	Water	9012B	562264

Client Sample ID: PZ93-1
Lab Sample ID: 480-178688-1
Date Collected: 11/23/20 12:36
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	561174	11/28/20 15:12	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		5	561494	12/01/20 23:34	PJQ	TAL BUF
Total/NA	Prep	3510C	DL		561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D	DL	100	561842	12/03/20 23:39	PJQ	TAL BUF
Total/NA	Prep	9012B			561919	12/03/20 20:39	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 19:48	KMF	TAL BUF

Client Sample ID: MW93-05D
Lab Sample ID: 480-178688-2
Date Collected: 11/23/20 13:02
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 15:37	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/02/20 00:03	PJQ	TAL BUF
Total/NA	Prep	9012B			561919	12/03/20 20:39	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 20:09	KMF	TAL BUF

Client Sample ID: MW-97-14-D
Lab Sample ID: 480-178688-3
Date Collected: 11/23/20 14:15
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 16:02	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/01/20 20:14	PJQ	TAL BUF
Total/NA	Prep	9012B			561919	12/03/20 20:39	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 19:44	KMF	TAL BUF

Client Sample ID: MW-97-14-S
Lab Sample ID: 480-178688-4
Date Collected: 11/23/20 14:35
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 16:27	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/02/20 00:33	PJQ	TAL BUF
Total/NA	Prep	9012B			561919	12/03/20 20:39	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 20:10	KMF	TAL BUF

Client Sample ID: MW-01-17-D
Lab Sample ID: 480-178688-5
Date Collected: 11/24/20 10:26
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 16:51	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/02/20 01:01	PJQ	TAL BUF
Total/NA	Prep	9012B			561917	12/03/20 20:30	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 18:16	KMF	TAL BUF

Client Sample ID: DUP112320
Lab Sample ID: 480-178688-6
Date Collected: 11/23/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 17:16	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/02/20 01:30	PJQ	TAL BUF
Total/NA	Prep	9012B			561919	12/03/20 20:39	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 20:12	KMF	TAL BUF

Client Sample ID: EB112420
Lab Sample ID: 480-178688-7
Date Collected: 11/24/20 09:23
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 17:41	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/02/20 01:58	PJQ	TAL BUF
Total/NA	Prep	9012B			561917	12/03/20 20:30	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562067	12/04/20 18:19	KMF	TAL BUF

Client Sample ID: NMW-01
Lab Sample ID: 480-178688-8
Date Collected: 11/24/20 12:57
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	561174	11/28/20 18:06	RJF	TAL BUF
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		5	561494	12/02/20 02:27	PJQ	TAL BUF
Total/NA	Prep	9012B			562264	12/07/20 17:26	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562422	12/08/20 16:39	ALT	TAL BUF

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9
Date Collected: 11/24/20 12:24
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 18:30	RJF	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-178688-1
Project/Site: NYSEG Groundwater Analysis - Binghamton,

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9

Date Collected: 11/24/20 12:24
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			561284	11/30/20 09:11	JMP	TAL BUF
Total/NA	Analysis	8270D		1	561494	12/02/20 02:55	PJQ	TAL BUF
Total/NA	Prep	9012B			562264	12/07/20 17:26	ALT	TAL BUF
Total/NA	Analysis	9012B		1	562422	12/08/20 16:10	ALT	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-178688-10

Date Collected: 11/24/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561174	11/28/20 18:55	RJF	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-178688-1
Project/Site: NYSEG Groundwater Analysis - Binghamton,

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PZ93-1	480-178688-1	115	98	95	97
MW93-05D	480-178688-2	112	103	96	93
MW-97-14-D	480-178688-3	109	100	96	92
MW-97-14-S	480-178688-4	104	98	94	91
MW-01-17-D	480-178688-5	107	97	97	95
DUP112320	480-178688-6	105	95	101	98
EB112420	480-178688-7	106	94	93	91
NMW-01	480-178688-8	100	94	94	93
MW-01-07-R	480-178688-9	101	91	94	93
TRIP BLANK	480-178688-10	104	98	99	95
	MB 480-561174/7	102	98	95	94
	LCS 480-561174/38	97	91	92	92
MW-97-14-D MS MS	480-178688-3 MS	101	103	93	93
MW-97-14-D MSD MSD	480-178688-3 MSD	100	95	95	95

	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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C2724.D

Lab ID: LCS 480-561174/38 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	25.7	103	71-124	
Ethylbenzene	25.0	25.3	101	77-123	
Toluene	25.0	24.4	97	80-122	
Xylenes, Total	50.0	51.3	103	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C2741.D

Lab ID: 480-178688-3 MS Client ID: MW-97-14-D MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	25.0	ND	26.4	106	71-124	
Ethylbenzene	25.0	ND	26.3	105	77-123	
Toluene	25.0	ND	25.8	103	80-122	
Xylenes, Total	50.0	ND	53.6	107	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C2742.D

Lab ID: 480-178688-3 MSD Client ID: MW-97-14-D MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	25.0	26.4	105	0	13	71-124	
Ethylbenzene	25.0	26.7	107	2	15	77-123	
Toluene	25.0	25.9	104	1	15	80-122	
Xylenes, Total	50.0	54.1	108	1	16	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: C2726.D Lab Sample ID: MB 480-561174/7

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

Instrument ID: HP5973C Date Analyzed: 11/28/2020 13:49

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-561174/38	C2724.D	11/28/2020 12:59
PZ93-1	480-178688-1	C2729.D	11/28/2020 15:12
MW93-05D	480-178688-2	C2730.D	11/28/2020 15:37
MW-97-14-D	480-178688-3	C2731.D	11/28/2020 16:02
MW-97-14-S	480-178688-4	C2732.D	11/28/2020 16:27
MW-01-17-D	480-178688-5	C2733.D	11/28/2020 16:51
DUP112320	480-178688-6	C2734.D	11/28/2020 17:16
EB112420	480-178688-7	C2735.D	11/28/2020 17:41
NMW-01	480-178688-8	C2736.D	11/28/2020 18:06
MW-01-07-R	480-178688-9	C2737.D	11/28/2020 18:30
TRIP BLANK	480-178688-10	C2738.D	11/28/2020 18:55
MW-97-14-D MS MS	480-178688-3 MS	C2741.D	11/28/2020 20:09
MW-97-14-D MSD MSD	480-178688-3 MSD	C2742.D	11/28/2020 20:34

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: C2263.D BFB Injection Date: 11/18/2020

Instrument ID: HP5973C BFB Injection Time: 14:24

Analysis Batch No.: 559712

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	Greater than 50% of mass 95	87.2	
175	5.0 - 9.0 % of mass 174	6.3	(7.2) 1
176	95.0 - 101.0 % of mass 174	87.4	(100.2) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-559712/13	C2265.D	11/18/2020	15:16
	IC 480-559712/14	C2266.D	11/18/2020	15:42
	IC 480-559712/15	C2267.D	11/18/2020	16:07
	IC 480-559712/16	C2268.D	11/18/2020	16:32
	IC 480-559712/17	C2269.D	11/18/2020	16:57
	ICIS 480-559712/18	C2270.D	11/18/2020	17:22
	IC 480-559712/19	C2271.D	11/18/2020	17:47
	IC 480-559712/20	C2272.D	11/18/2020	18:12

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: C2720.D BFB Injection Date: 11/28/2020

Instrument ID: HP5973C BFB Injection Time: 11:01

Analysis Batch No.: 561174

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	85.8	
175	5.0 - 9.0 % of mass 174	7.3	(8.5) 1
176	95.0 - 101.0 % of mass 174	83.9	(97.8) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-561174/3	C2721.D	11/28/2020	11:27
	LCS 480-561174/38	C2724.D	11/28/2020	12:59
	MB 480-561174/7	C2726.D	11/28/2020	13:49
PZ93-1	480-178688-1	C2729.D	11/28/2020	15:12
MW93-05D	480-178688-2	C2730.D	11/28/2020	15:37
MW-97-14-D	480-178688-3	C2731.D	11/28/2020	16:02
MW-97-14-S	480-178688-4	C2732.D	11/28/2020	16:27
MW-01-17-D	480-178688-5	C2733.D	11/28/2020	16:51
DUP112320	480-178688-6	C2734.D	11/28/2020	17:16
EB112420	480-178688-7	C2735.D	11/28/2020	17:41
NMW-01	480-178688-8	C2736.D	11/28/2020	18:06
MW-01-07-R	480-178688-9	C2737.D	11/28/2020	18:30
TRIP BLANK	480-178688-10	C2738.D	11/28/2020	18:55
MW-97-14-D MS MS	480-178688-3 MS	C2741.D	11/28/2020	20:09
MW-97-14-D MSD MSD	480-178688-3 MSD	C2742.D	11/28/2020	20:34

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: ICIS 480-559712/18 Date Analyzed: 11/18/2020 17:22

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): C2270.D Heated Purge: (Y/N) N

Calibration ID: 40674

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		200563	4.93	389943	7.24	434458	9.11
UPPER LIMIT		401126	5.43	779886	7.74	868916	9.61
LOWER LIMIT		100282	4.43	194972	6.74	217229	8.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-561174/3		167149	4.93	306974	7.24	323942	9.11

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: CCVIS 480-561174/3 Date Analyzed: 11/28/2020 11:27

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): C2721.D Heated Purge: (Y/N) N

Calibration ID: 40677

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		167149	4.93	306974	7.24	323942	9.11
UPPER LIMIT		334298	5.43	613948	7.74	647884	9.61
LOWER LIMIT		83575	4.43	153487	6.74	161971	8.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-561174/38		166399	4.93	334105	7.24	368664	9.11
MB 480-561174/7		155766	4.93	257175	7.24	294969	9.11
480-178688-1	PZ93-1	130491	4.93	222269	7.24	273513	9.11
480-178688-2	MW93-05D	141399	4.93	240236	7.24	277743	9.11
480-178688-3	MW-97-14-D	146315	4.93	248645	7.24	294588	9.11
480-178688-4	MW-97-14-S	148402	4.93	246126	7.24	288874	9.11
480-178688-5	MW-01-17-D	146705	4.93	243724	7.24	289690	9.11
480-178688-6	DUP112320	148782	4.93	249874	7.24	273783	9.11
480-178688-7	EB112420	138152	4.93	251347	7.24	297484	9.11
480-178688-8	NMW-01	154359	4.93	286629	7.24	318129	9.11
480-178688-9	MW-01-07-R	149352	4.93	275054	7.24	319152	9.11
480-178688-10	TRIP BLANK	145598	4.93	254023	7.24	274971	9.11
480-178688-3 MS	MW-97-14-D MS MS	166705	4.93	317726	7.24	355271	9.11
480-178688-3 MSD	MW-97-14-D MSD MSD	167849	4.93	311079	7.24	350901	9.11

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: PZ93-1 Lab Sample ID: 480-178688-1

Matrix: Water Lab File ID: C2729.D

Analysis Method: 8260C Date Collected: 11/23/2020 12:36

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 15:12

Soil Aliquot Vol: Dilution Factor: 20

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21		20	8.2
100-41-4	Ethylbenzene	920		20	15
108-88-3	Toluene	120		20	10
1330-20-7	Xylenes, Total	450		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D
Lims ID: 480-178688-E-1
Client ID: PZ93-1
Sample Type: Client
Inject. Date: 28-Nov-2020 15:12:30 ALS Bottle#: 11 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-178688-e-1
Misc. Info.: 480-0095298-041
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:49:18 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:49:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	130491	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	222269	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	95	273513	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	261471	28.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	120105	24.5	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	590157	23.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	195999	24.2	
57 Benzene	78	4.707	4.707	0.000	47	28445	1.05	
74 Toluene	92	6.158	6.158	0.000	98	89170	5.97	
88 Ethylbenzene	91	7.319	7.319	0.000	98	1270987	46.2	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	97	130655	12.2	
91 o-Xylene	106	7.733	7.733	0.000	97	114279	10.6	
S 124 Xylenes, Total	1				0		22.8	

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

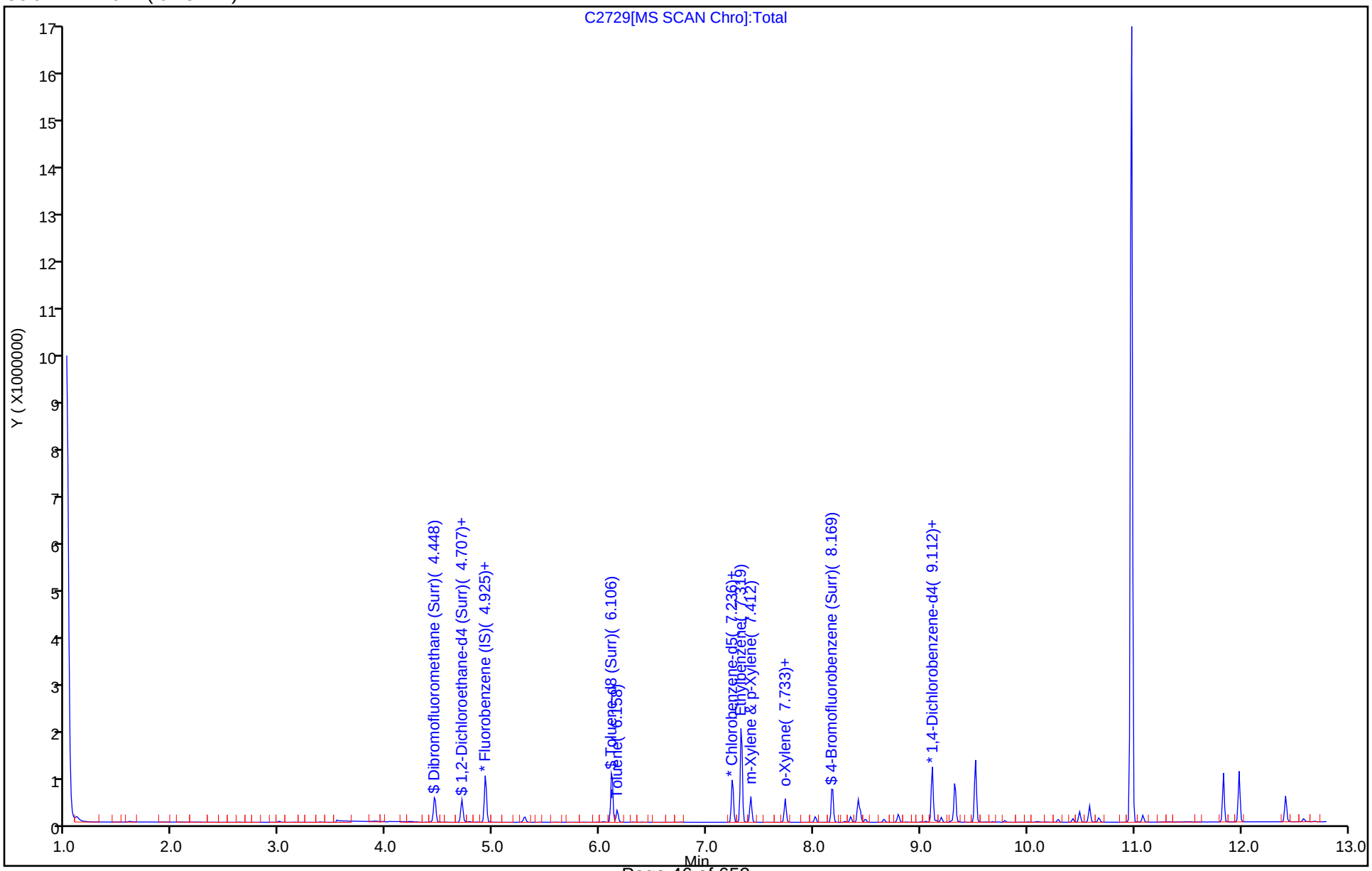
Report Date: 29-Nov-2020 08:49:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D

Injection Date:	28-Nov-2020 15:12:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-1	Lab Sample ID:	480-178688-1	Worklist Smp#:	41
Client ID:	PZ93-1				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	11
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



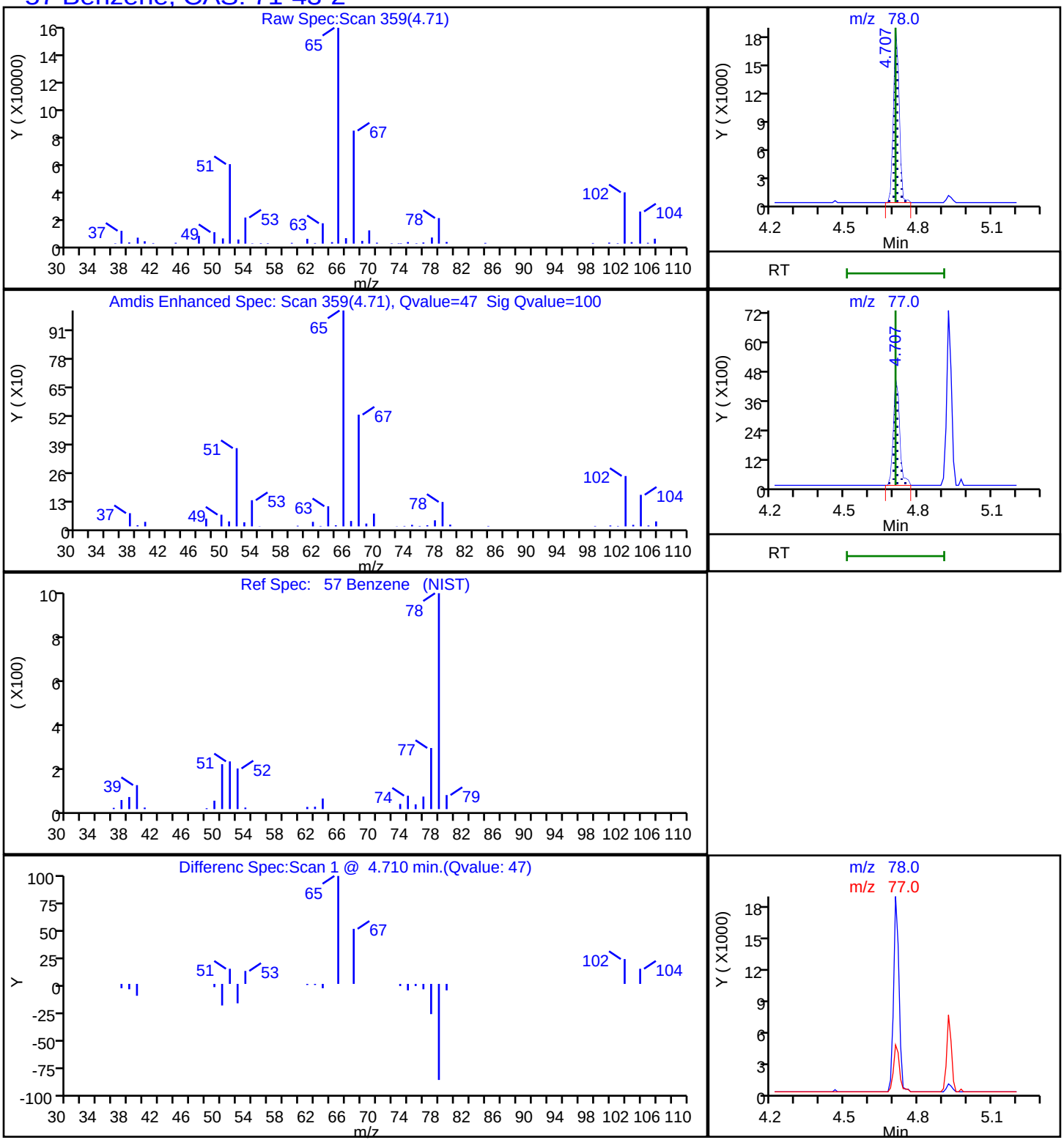
Report Date: 29-Nov-2020 08:49:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D

Injection Date:	28-Nov-2020 15:12:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-1	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2



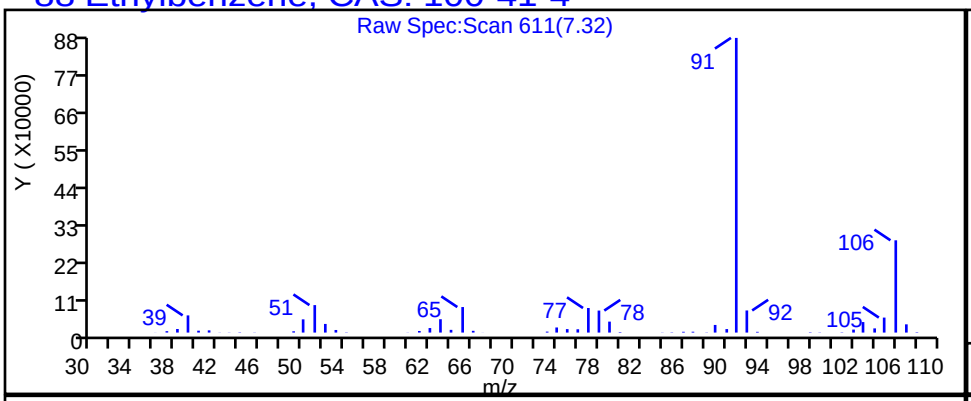
Report Date: 29-Nov-2020 08:49:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

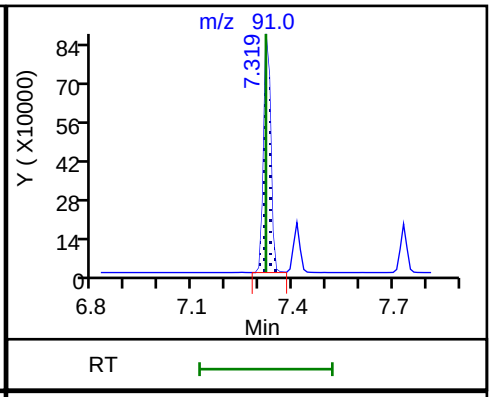
Eurofins TestAmerica, Buffalo

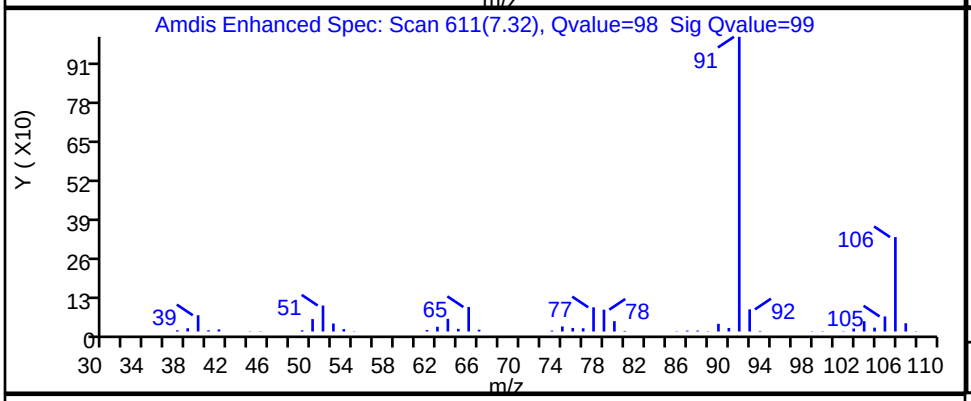
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D

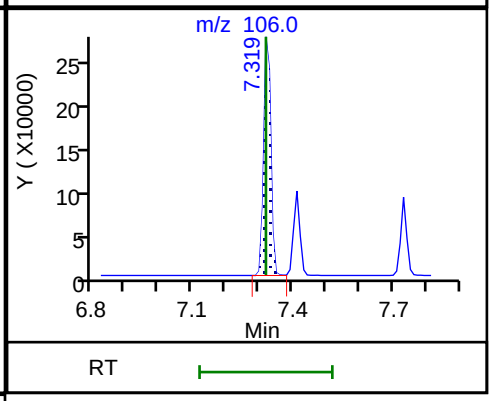
Injection Date:	28-Nov-2020 15:12:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-1	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

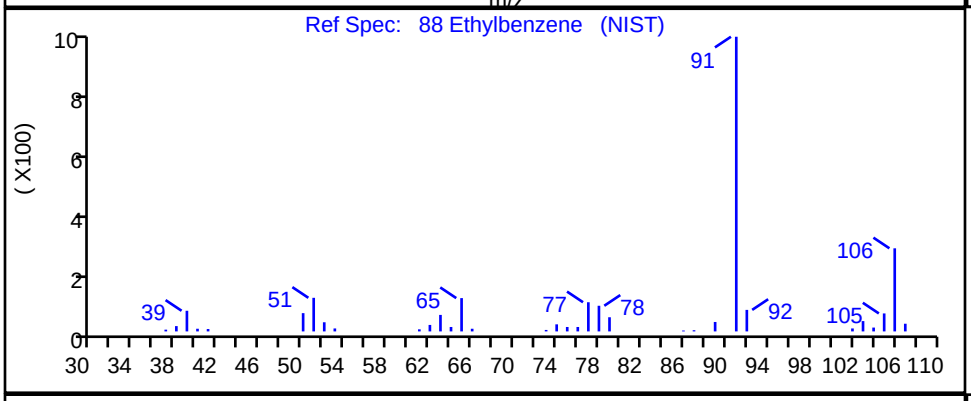
88 Ethylbenzene, CAS: 100-41-4

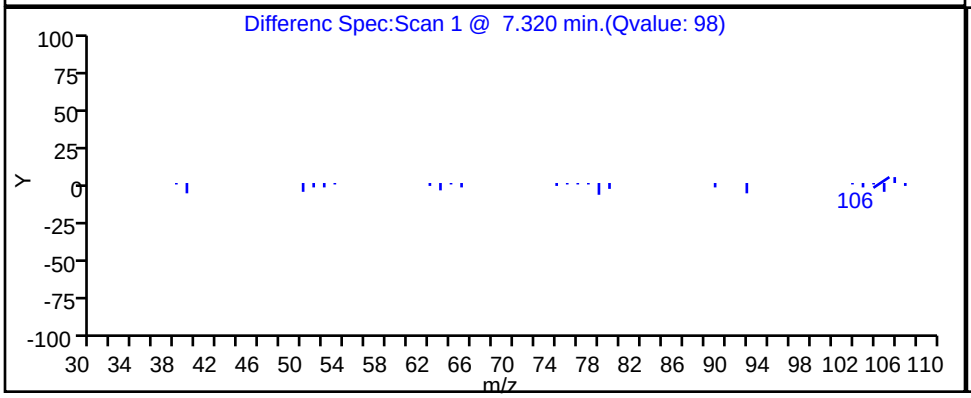


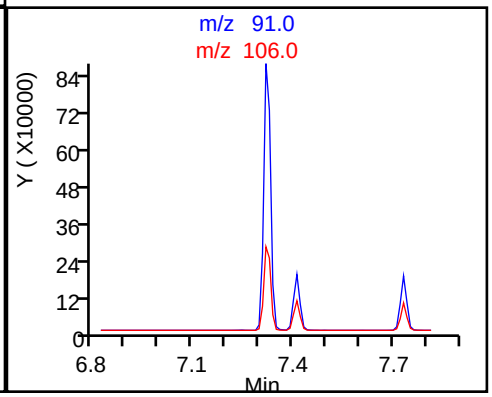












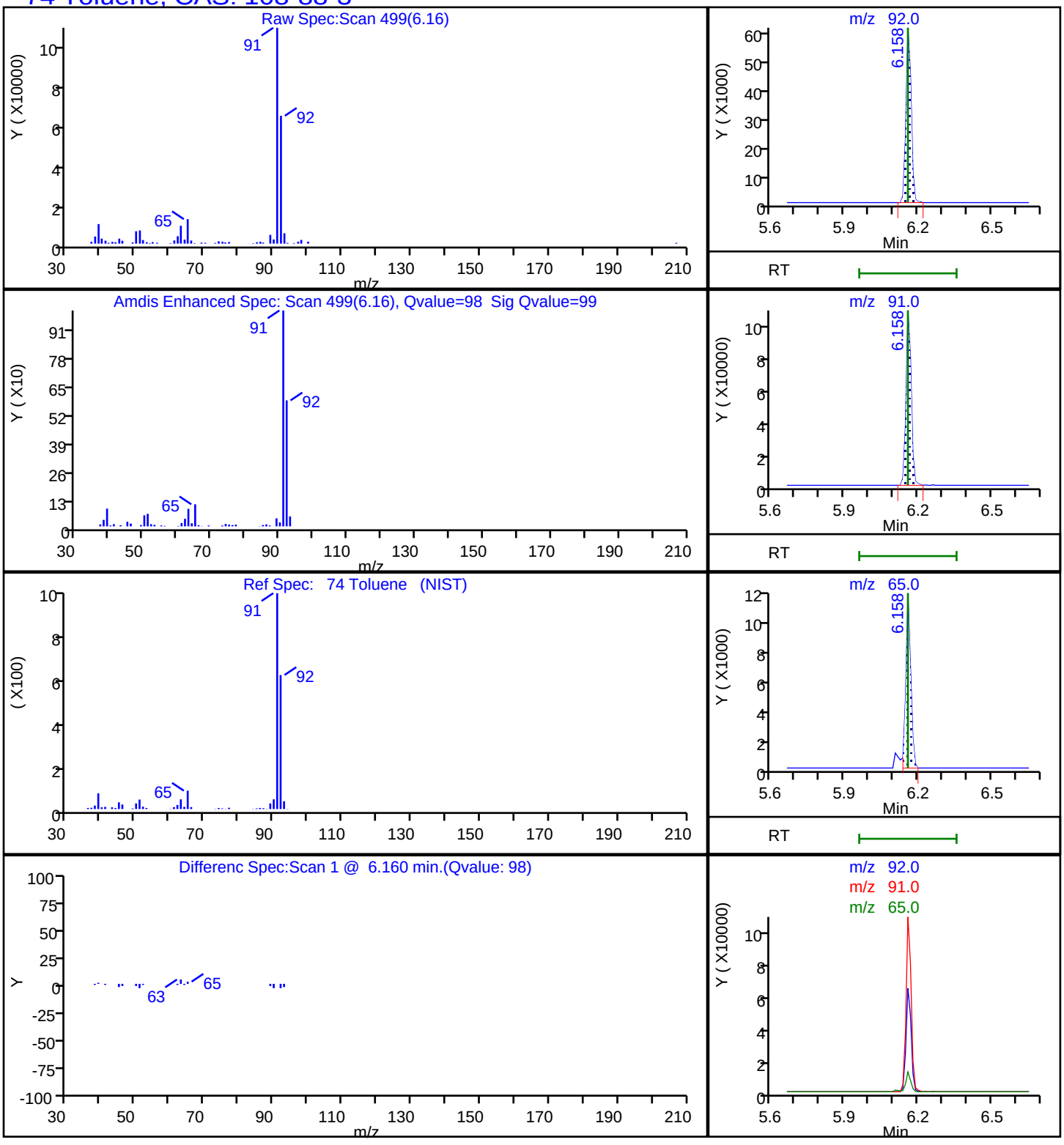
Report Date: 29-Nov-2020 08:49:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D

Injection Date:	28-Nov-2020 15:12:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-1	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

74 Toluene, CAS: 108-88-3



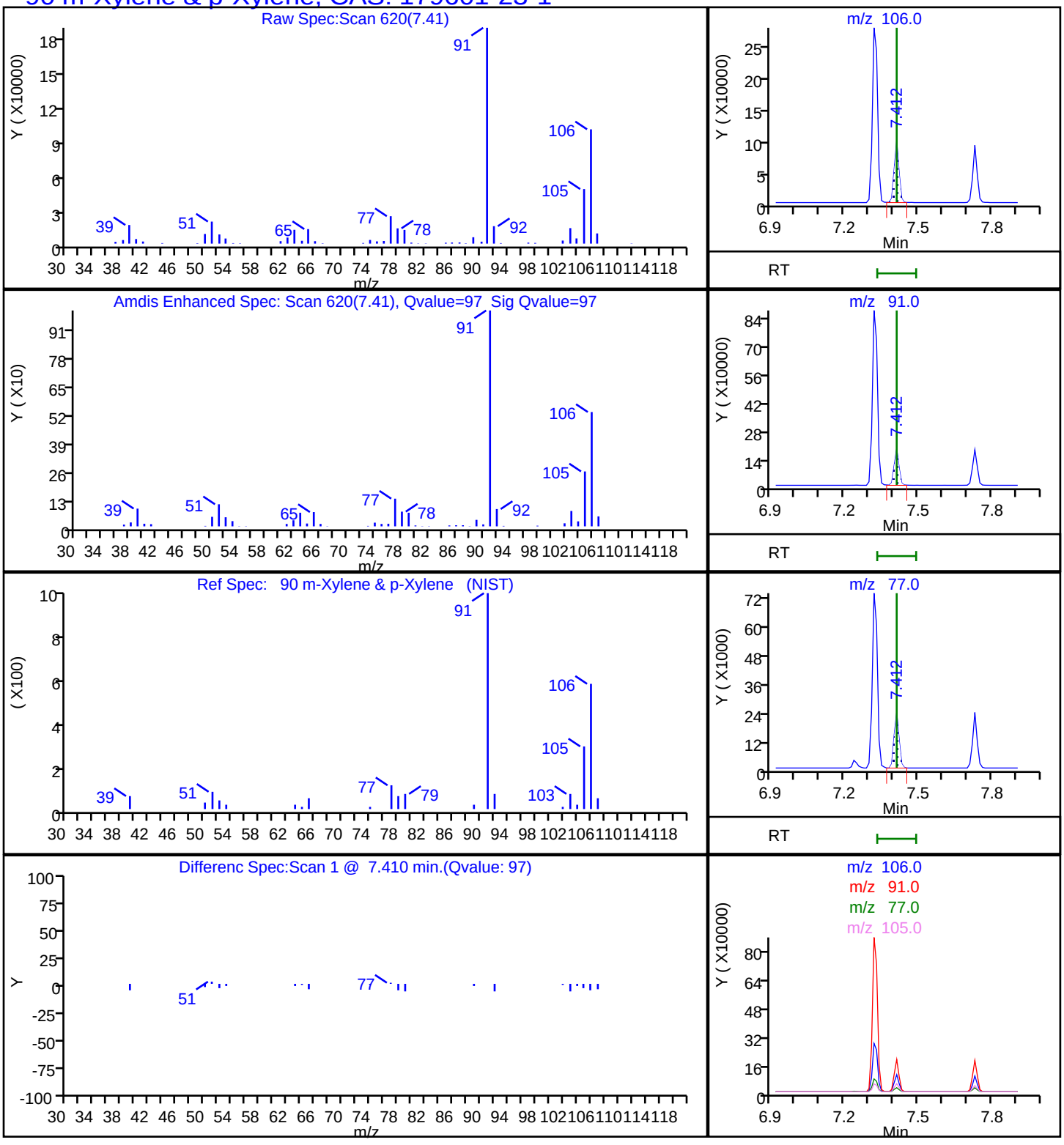
Report Date: 29-Nov-2020 08:49:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D

Injection Date:	28-Nov-2020 15:12:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-1	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

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



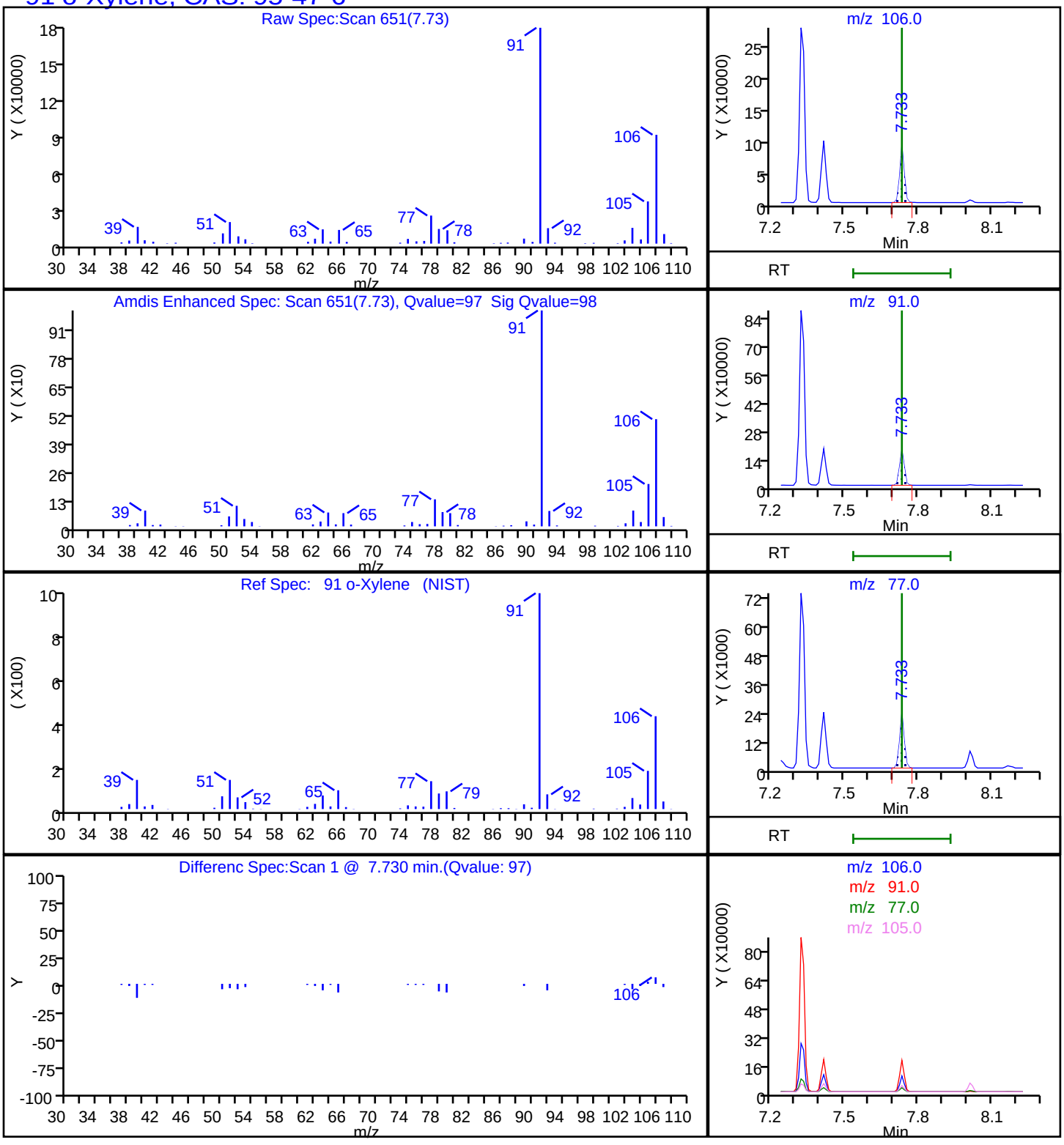
Report Date: 29-Nov-2020 08:49:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2729.D

Injection Date:	28-Nov-2020 15:12:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-1	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	41
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW93-05D Lab Sample ID: 480-178688-2

Matrix: Water Lab File ID: C2730.D

Analysis Method: 8260C Date Collected: 11/23/2020 13:02

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 15:37

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2730.D				
Lims ID:	480-178688-E-2				
Client ID:	MW93-05D				
Sample Type:	Client				
Inject. Date:	28-Nov-2020 15:37:30	ALS Bottle#:	12	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-178688-e-2				
Misc. Info.:	480-0095298-042				
Operator ID:	RF	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Nov-2020 08:50:13	Calib Date:	18-Nov-2020 22:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1636				
First Level Reviewer: izquierdoo		Date:	29-Nov-2020 08:50:13		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	141399	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	240236	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	277743	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.458	4.448	0.010	93	275078	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	136280	25.6	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	648915	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	203114	23.2	
57 Benzene	78	4.707	4.707	0.000	43	7204	0.2447	
74 Toluene	92		6.158				ND	
88 Ethylbenzene	91	7.329	7.319	0.010	97	5840	0.1964	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	93	1657	0.1432	
91 o-Xylene	106		7.733				ND	Ua
S 124 Xylenes, Total	1				0		0.1432	

QC Flag Legend

Processing Flags
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

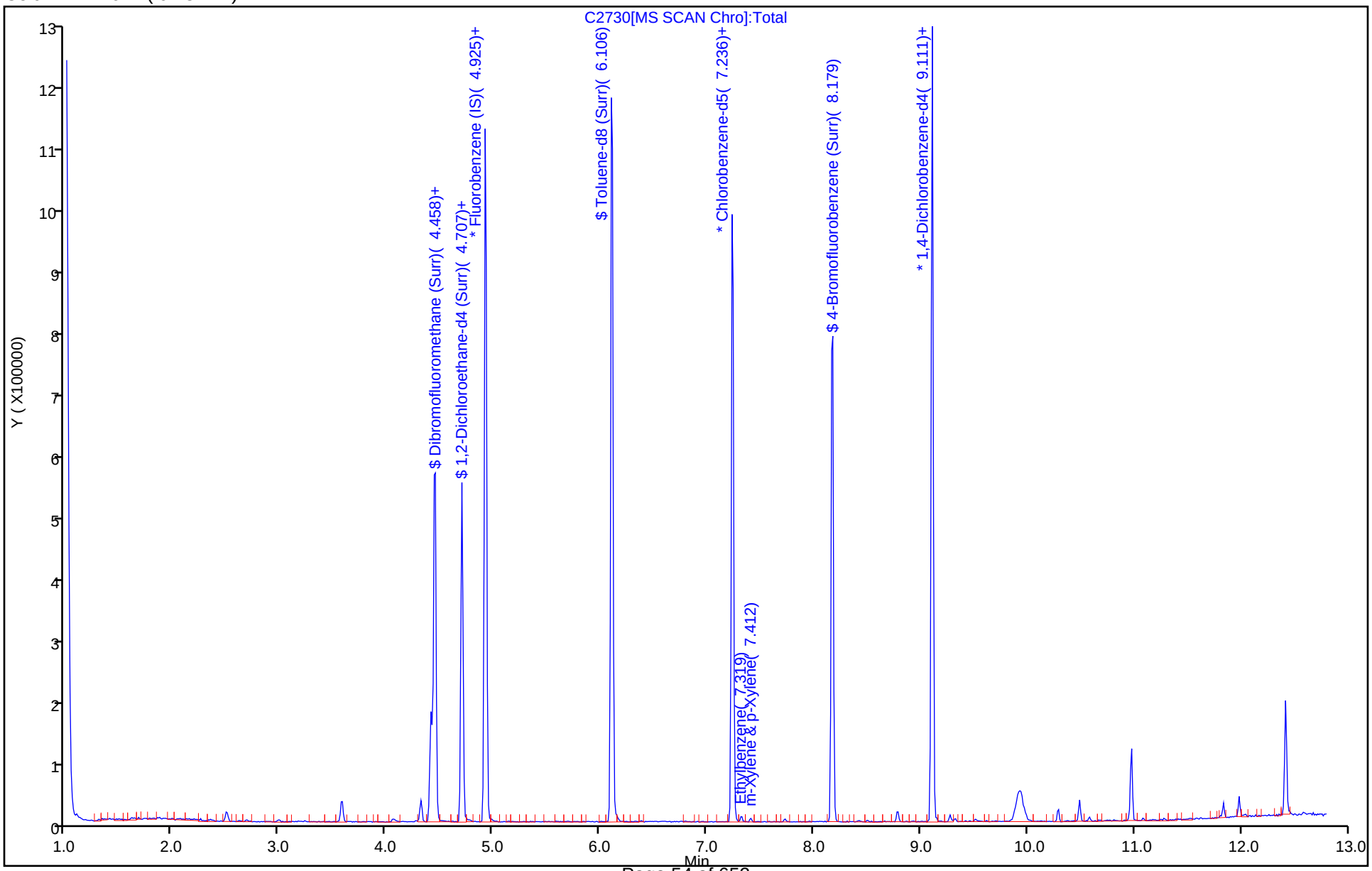
Report Date: 29-Nov-2020 08:50:13 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2730.D

Injection Date:	28-Nov-2020 15:37:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-2	Lab Sample ID:	480-178688-2	Worklist Smp#:	42
Client ID:	MW93-05D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-D Lab Sample ID: 480-178688-3

Matrix: Water Lab File ID: C2731.D

Analysis Method: 8260C Date Collected: 11/23/2020 14:15

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 16:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2731.D
Lims ID: 480-178688-E-3
Client ID: MW-97-14 -D
Sample Type: Client
Inject. Date: 28-Nov-2020 16:02:30 ALS Bottle#: 13 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-178688-e-3
Misc. Info.: 480-0095298-043
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:51:01 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:51:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	146315	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	85	248645	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	294588	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	278141	27.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	137323	25.0	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	667268	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	209233	23.1	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	Ua
88 Ethylbenzene	91		7.319				ND	
90 m-Xylene & p-Xylene	106		7.412				ND	MUa
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

C_8260_Surr_00167 Amount Added: 2.00 Units: uL Run Reagent
C_8260_IS_00150 Amount Added: 2.00 Units: uL Run Reagent

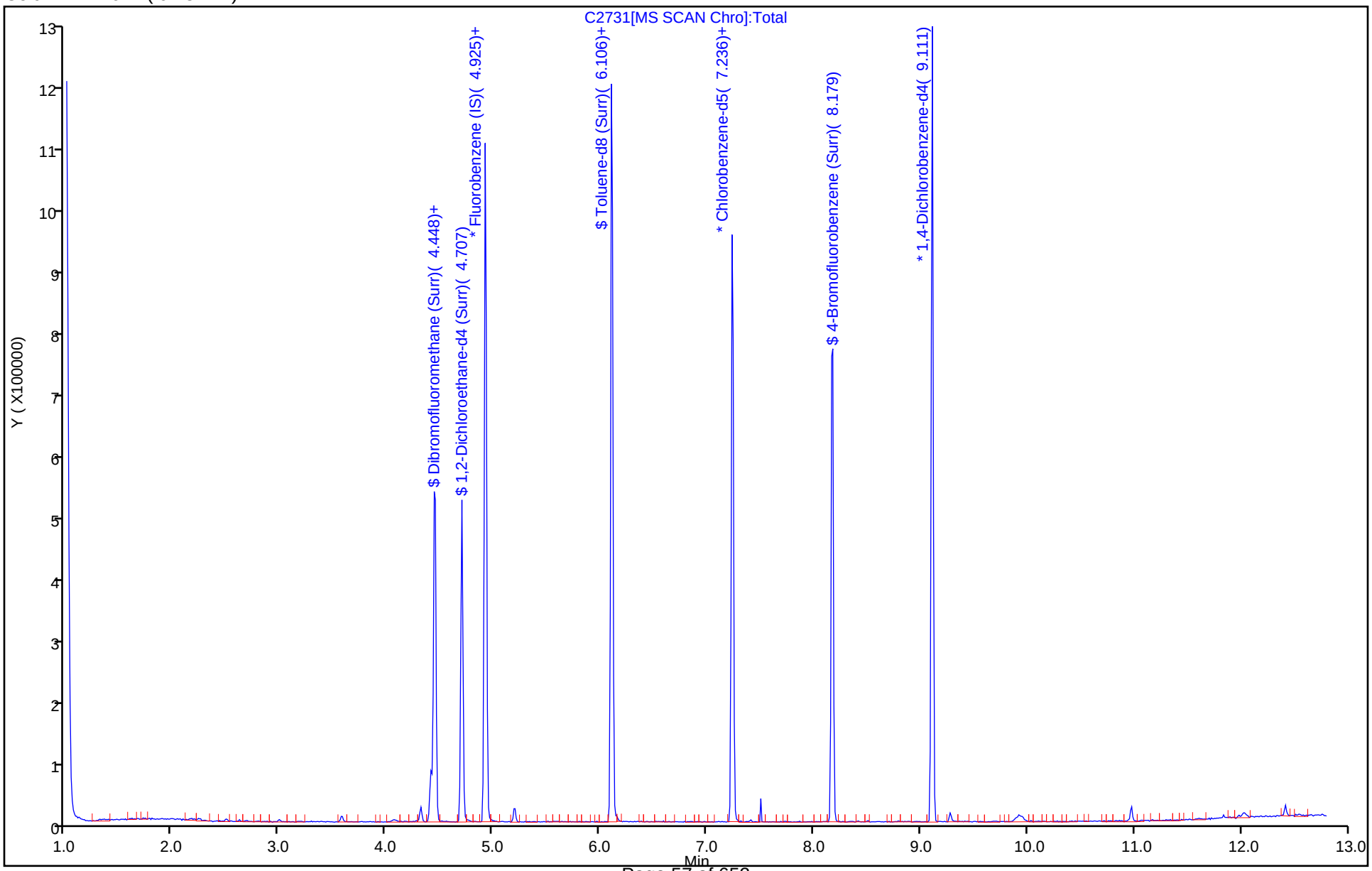
Report Date: 29-Nov-2020 08:51:02 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2731.D

Injection Date:	28-Nov-2020 16:02:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-3	Lab Sample ID:	480-178688-3	Worklist Smp#:	43
Client ID:	MW-97-14 -D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-S Lab Sample ID: 480-178688-4

Matrix: Water Lab File ID: C2732.D

Analysis Method: 8260C Date Collected: 11/23/2020 14:35

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 16:27

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2732.D
Lims ID: 480-178688-E-4
Client ID: MW-97-14-S
Sample Type: Client
Inject. Date: 28-Nov-2020 16:27:30 ALS Bottle#: 14 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-178688-e-4
Misc. Info.: 480-0095298-046
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:51:27 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:51:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	148402	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	85	246126	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	288874	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	268987	26.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	136523	24.5	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	646410	23.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	204814	22.8	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	Ua
88 Ethylbenzene	91		7.319				ND	
90 m-Xylene & p-Xylene	106		7.412				ND	
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

C_8260_Surr_00167 Amount Added: 2.00 Units: uL Run Reagent
C_8260_IS_00150 Amount Added: 2.00 Units: uL Run Reagent

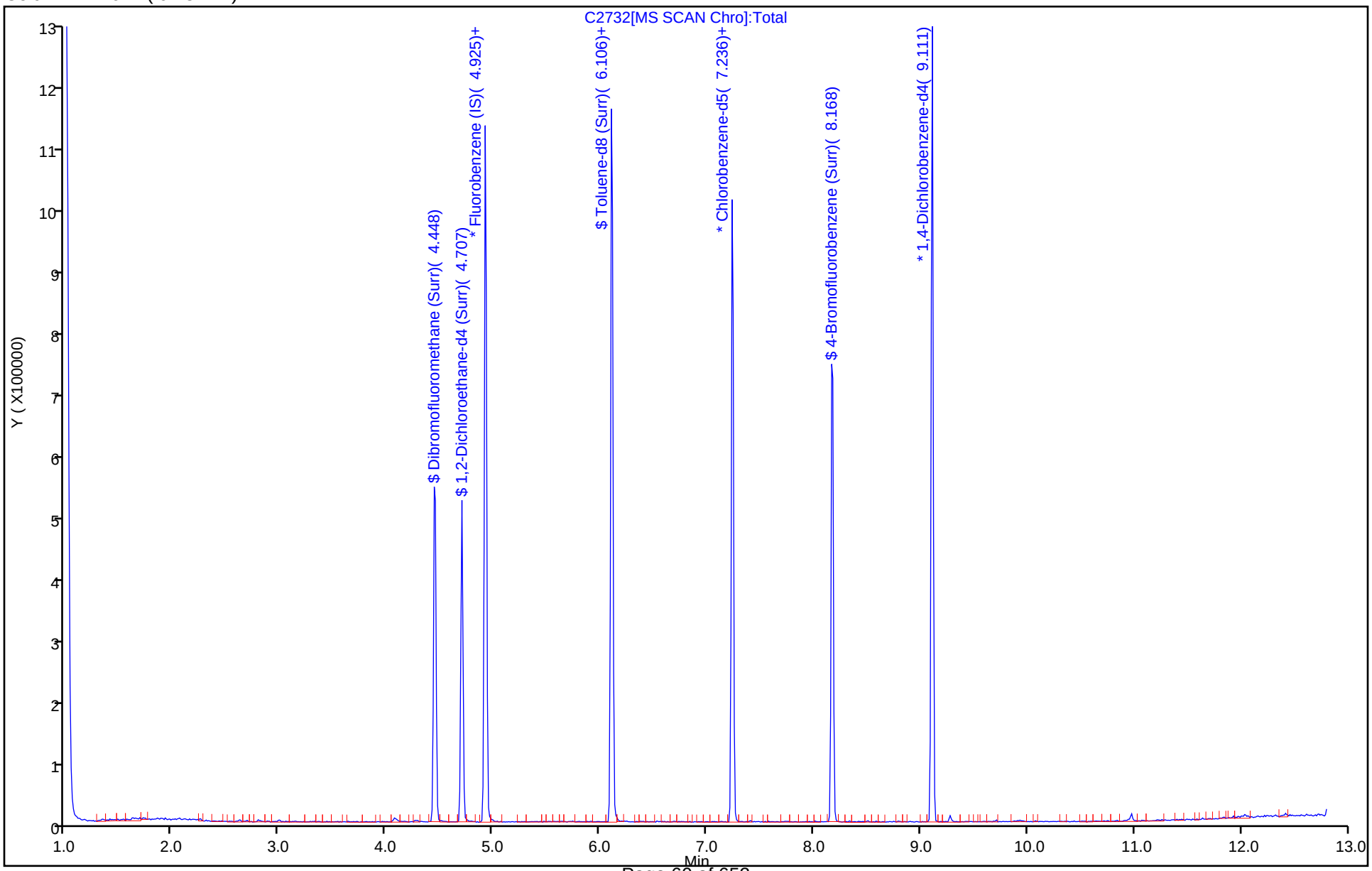
Report Date: 29-Nov-2020 08:51:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2732.D

Injection Date:	28-Nov-2020 16:27:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-4	Lab Sample ID:	480-178688-4	Worklist Smp#:	46
Client ID:	MW-97-14-S				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-01-17-D Lab Sample ID: 480-178688-5

Matrix: Water Lab File ID: C2733.D

Analysis Method: 8260C Date Collected: 11/24/2020 10:26

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 16:51

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2733.D
Lims ID: 480-178688-E-5
Client ID: MW-01-17-D
Sample Type: Client
Inject. Date: 28-Nov-2020 16:51:30 ALS Bottle#: 15 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-178688-e-5
Misc. Info.: 480-0095298-047
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:52:04 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:52:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	146705	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	243724	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	289690	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	271829	26.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	134056	24.3	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	663635	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	95	211092	23.8	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	
88 Ethylbenzene	91		7.319				ND	7
90 m-Xylene & p-Xylene	106		7.412				ND	Ua
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

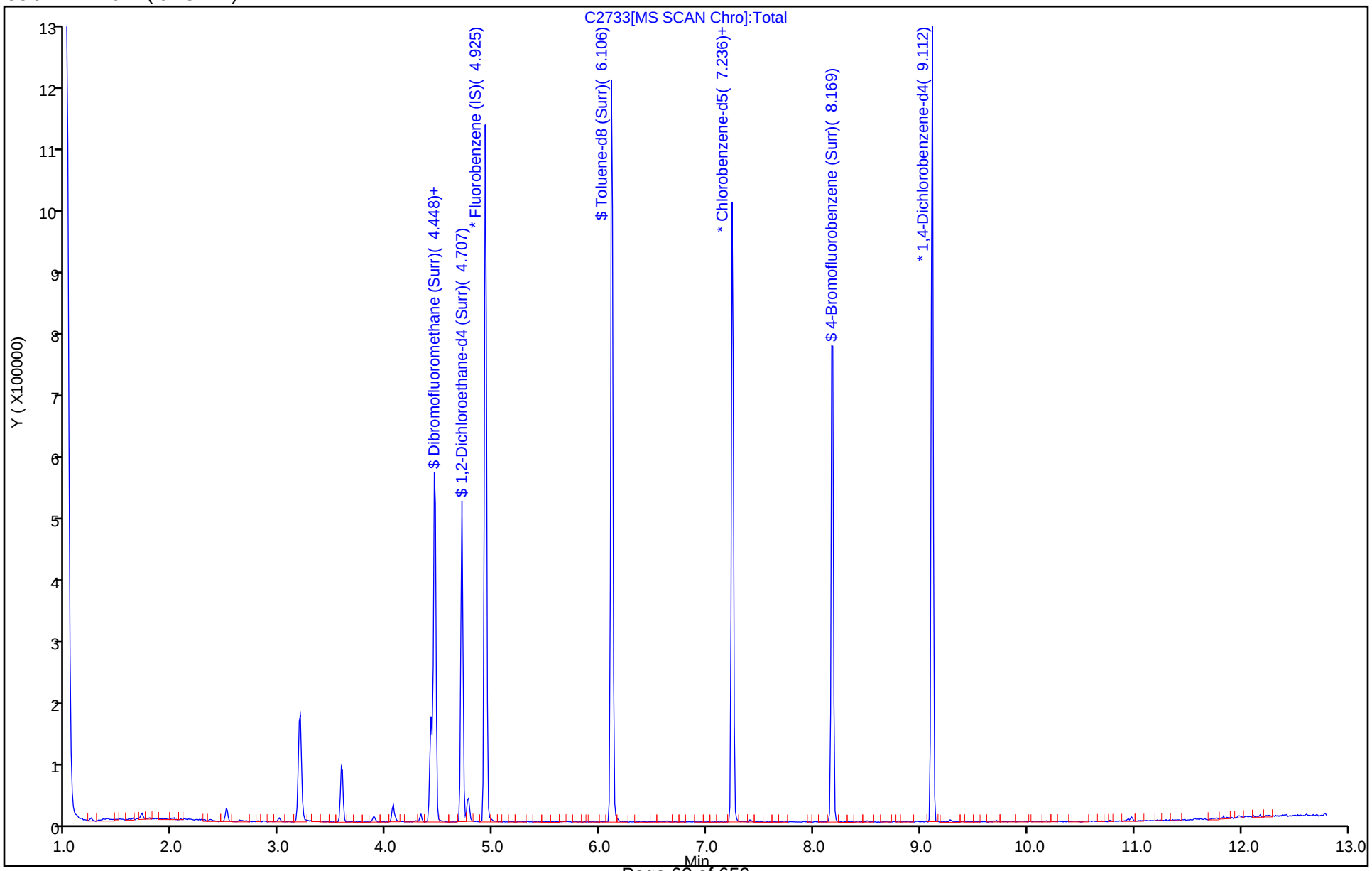
Report Date: 29-Nov-2020 08:52:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2733.D

Injection Date:	28-Nov-2020 16:51:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-5	Lab Sample ID:	480-178688-5	Worklist Smp#:	47
Client ID:	MW-01-17-D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: DUP112320 Lab Sample ID: 480-178688-6

Matrix: Water Lab File ID: C2734.D

Analysis Method: 8260C Date Collected: 11/23/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 17:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2734.D				
Lims ID:	480-178688-E-6				
Client ID:	DUP112320				
Sample Type:	Client				
Inject. Date:	28-Nov-2020 17:16:30	ALS Bottle#:	16	Worklist Smp#:	48
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-178688-e-6				
Misc. Info.:	480-0095298-048				
Operator ID:	RF	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Nov-2020 08:52:04	Calib Date:	18-Nov-2020 22:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1636				
First Level Reviewer: izquierdoo		Date:	29-Nov-2020 08:52:18		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	148782	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	249874	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	273783	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	272571	26.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	132243	23.6	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	94	711534	25.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	222702	24.5	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	
88 Ethylbenzene	91		7.319				ND	
90 m-Xylene & p-Xylene	106		7.412				ND	
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

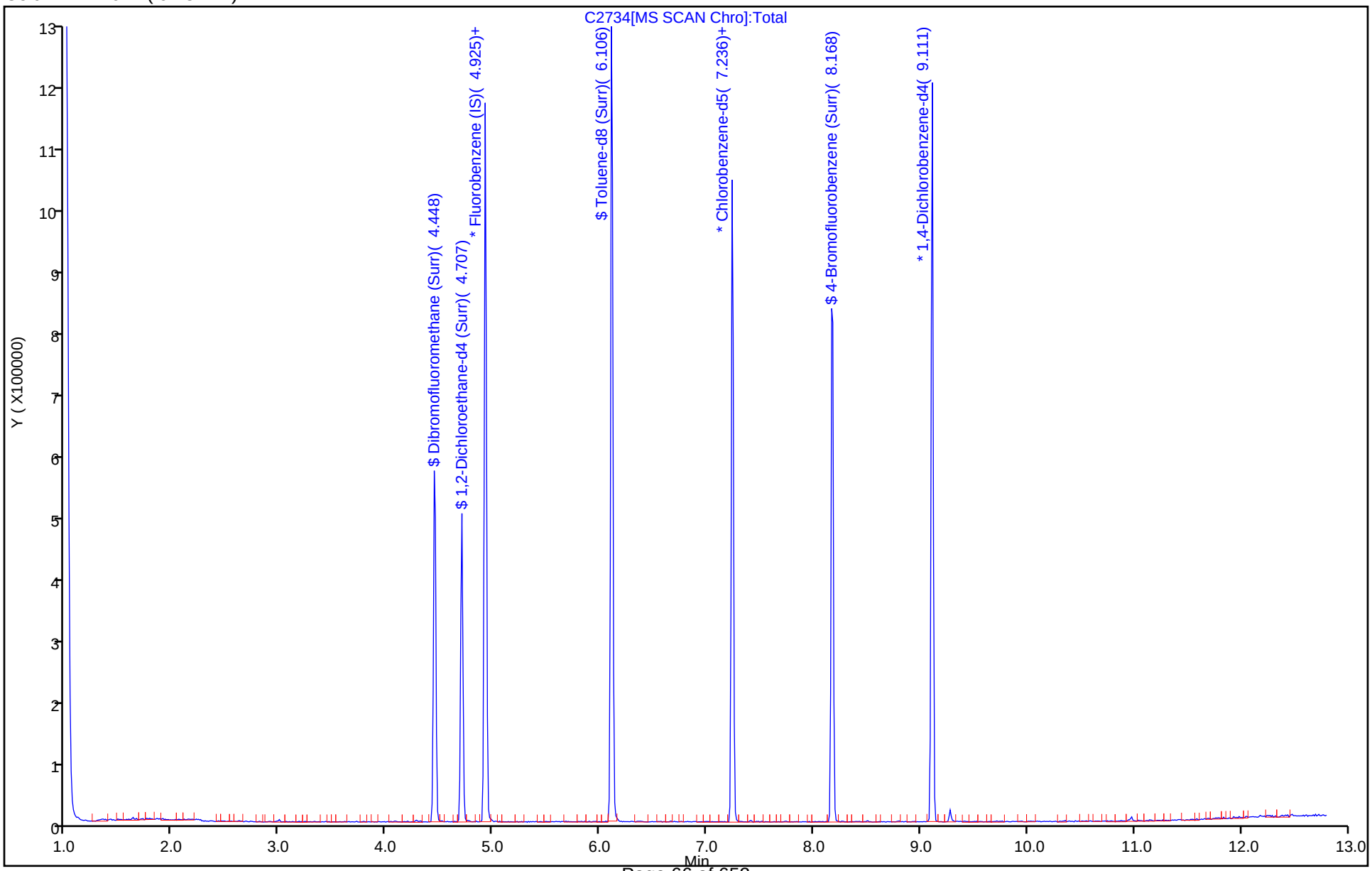
Report Date: 29-Nov-2020 08:52:18 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2734.D

Injection Date:	28-Nov-2020 17:16:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-6	Lab Sample ID:	480-178688-6	Worklist Smp#:	48
Client ID:	DUP112320				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: EB112420 Lab Sample ID: 480-178688-7

Matrix: Water Lab File ID: C2735.D

Analysis Method: 8260C Date Collected: 11/24/2020 09:23

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 17:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2735.D				
Lims ID:	480-178688-E-7				
Client ID:	EB112420				
Sample Type:	Client				
Inject. Date:	28-Nov-2020 17:41:30	ALS Bottle#:	17	Worklist Smp#:	49
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-178688-e-7				
Misc. Info.:	480-0095298-049				
Operator ID:	RF	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Nov-2020 08:52:04	Calib Date:	18-Nov-2020 22:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1636				
First Level Reviewer: izquierdoo		Date:	29-Nov-2020 08:52:32		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	138152	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	251347	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	297484	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	254045	26.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	121829	23.4	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	653510	23.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	95	207750	22.7	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	
88 Ethylbenzene	91		7.319				ND	
90 m-Xylene & p-Xylene	106		7.412				ND	
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

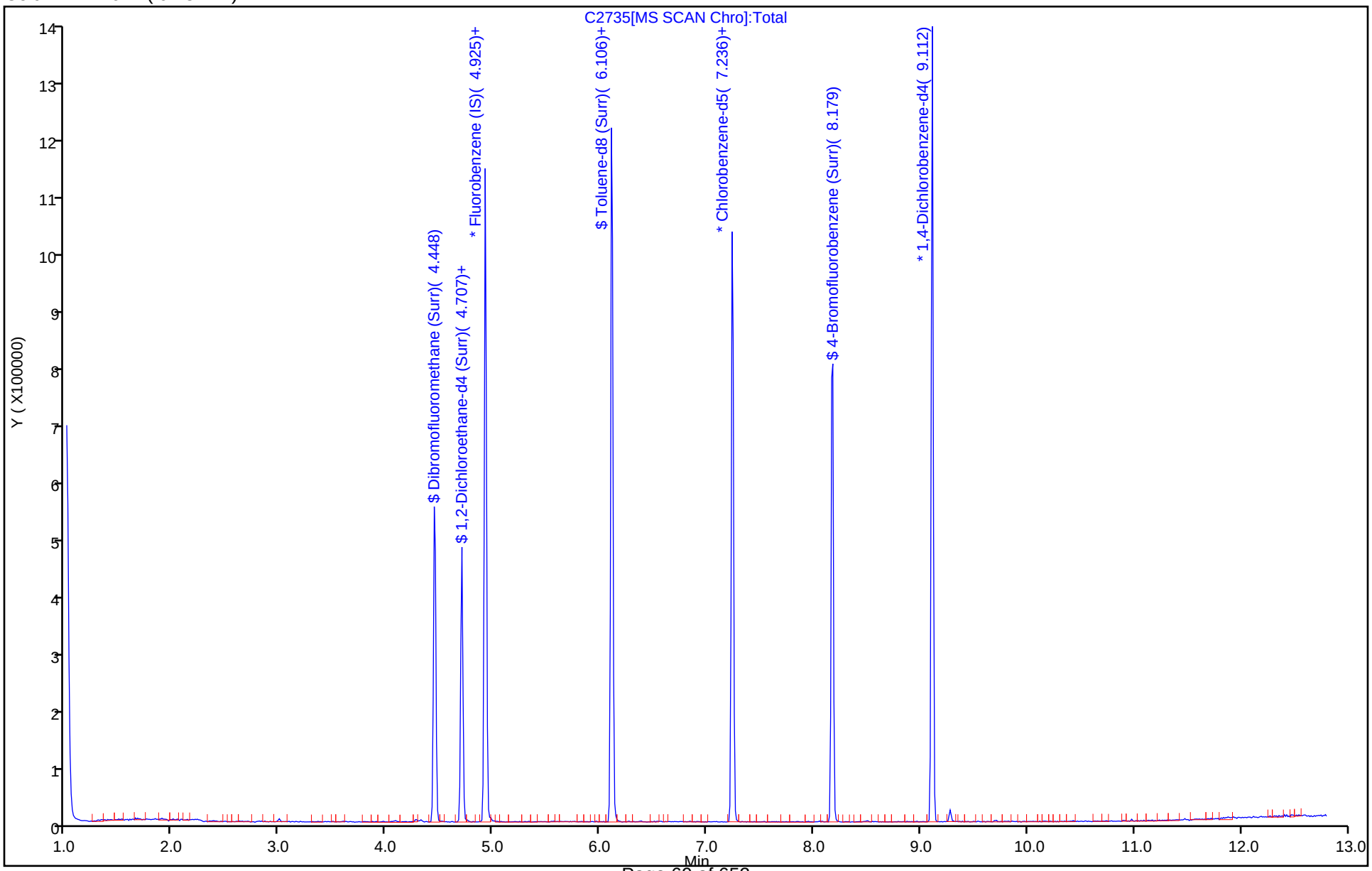
Report Date: 29-Nov-2020 08:52:32 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2735.D

Injection Date:	28-Nov-2020 17:41:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-7	Lab Sample ID:	480-178688-7	Worklist Smp#:	49
Client ID:	EB112420				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: NMW-01 Lab Sample ID: 480-178688-8

Matrix: Water Lab File ID: C2736.D

Analysis Method: 8260C Date Collected: 11/24/2020 12:57

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 18:06

Soil Aliquot Vol: Dilution Factor: 4

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	160		4.0	1.6
100-41-4	Ethylbenzene	3.4	J	4.0	3.0
108-88-3	Toluene	ND		4.0	2.0
1330-20-7	Xylenes, Total	13		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2736.D				
Lims ID:	480-178688-E-8				
Client ID:	MW97-7				
Sample Type:	Client				
Inject. Date:	28-Nov-2020 18:06:30	ALS Bottle#:	18	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Sample Info:	480-178688-e-8				
Misc. Info.:	480-0095298-050				
Operator ID:	RF	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Nov-2020 08:52:04	Calib Date:	18-Nov-2020 22:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1636				
First Level Reviewer: izquierdoo		Date:	29-Nov-2020 08:52:43		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	154359	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	286629	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	95	318129	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	268316	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	96	135850	23.4	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	755034	23.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	243886	23.4	
57 Benzene	78	4.707	4.707	0.000	97	1291313	40.2	
74 Toluene	92	6.158	6.158	0.000	96	3958	0.2055	
88 Ethylbenzene	91	7.319	7.319	0.000	98	30174	0.8504	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	14543	1.05	
91 o-Xylene	106	7.733	7.733	0.000	97	30519	2.19	
S 124 Xylenes, Total	1				0		3.24	

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

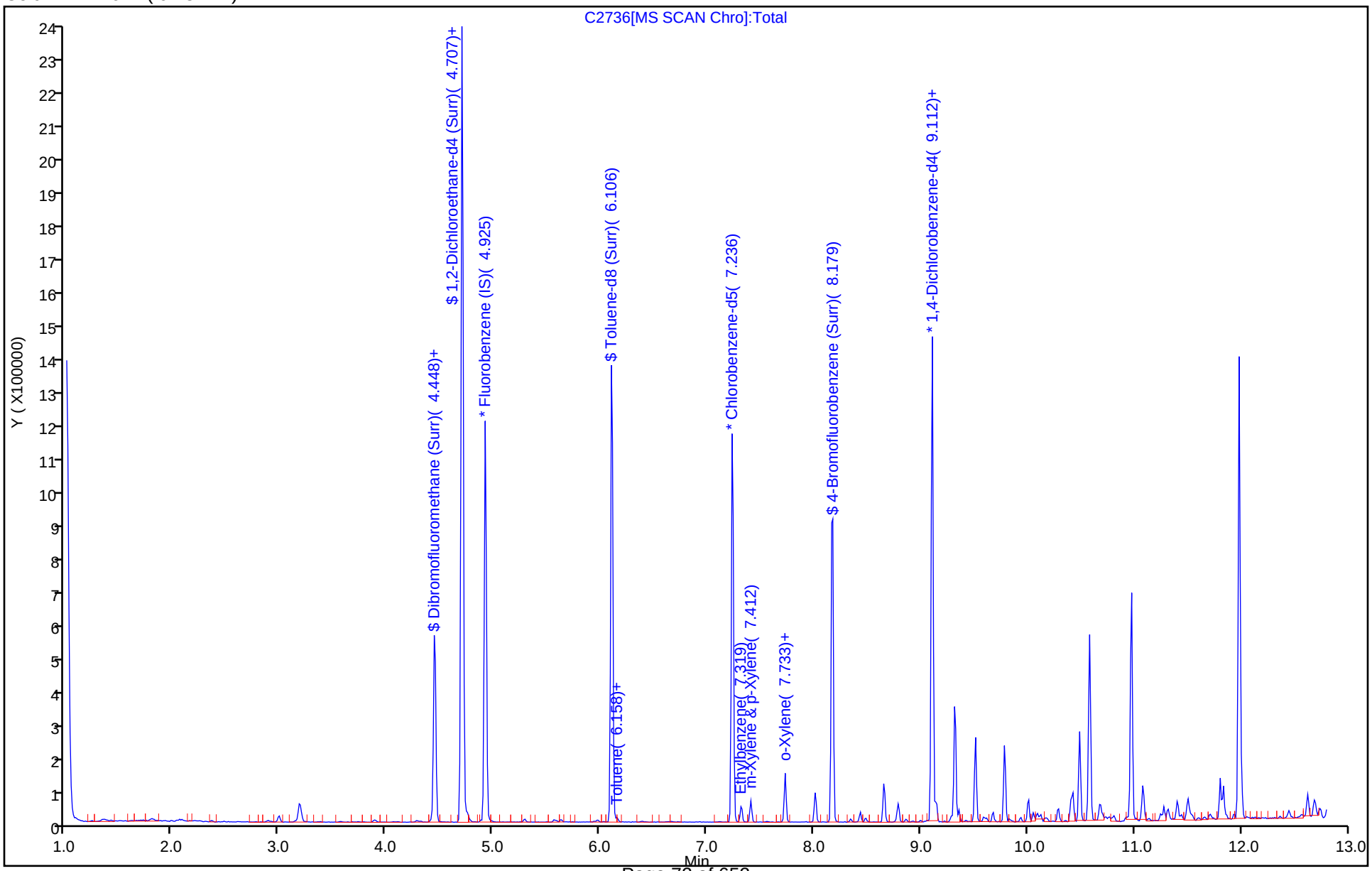
Report Date: 29-Nov-2020 08:52:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2736.D

Injection Date:	28-Nov-2020 18:06:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-8	Lab Sample ID:	480-178688-8	Worklist Smp#:	50
Client ID:	MW97-7				
Purge Vol:	5.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	18
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)

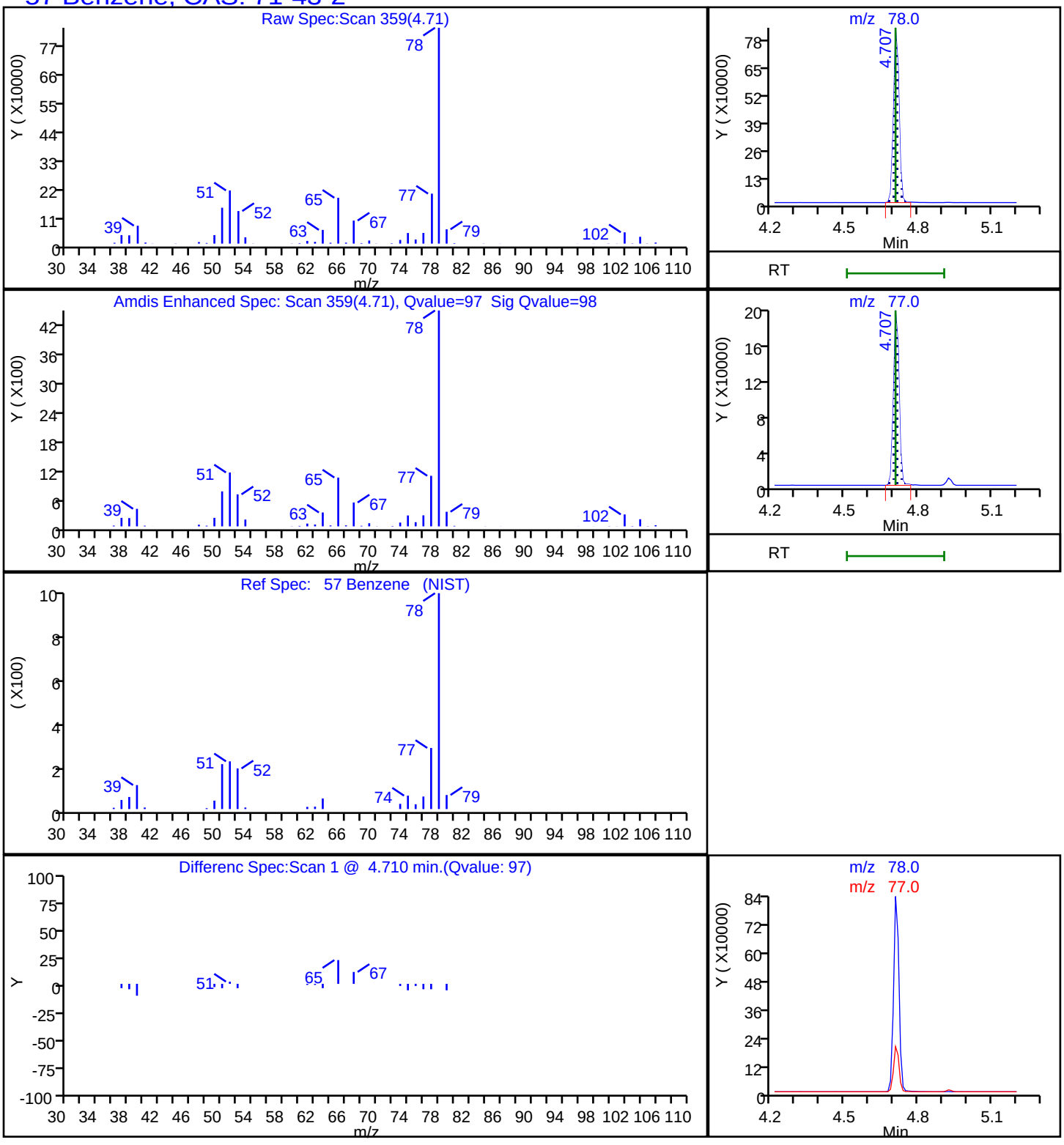


Report Date: 29-Nov-2020 08:52:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2736.D				
Injection Date:	28-Nov-2020 18:06:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-8	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2

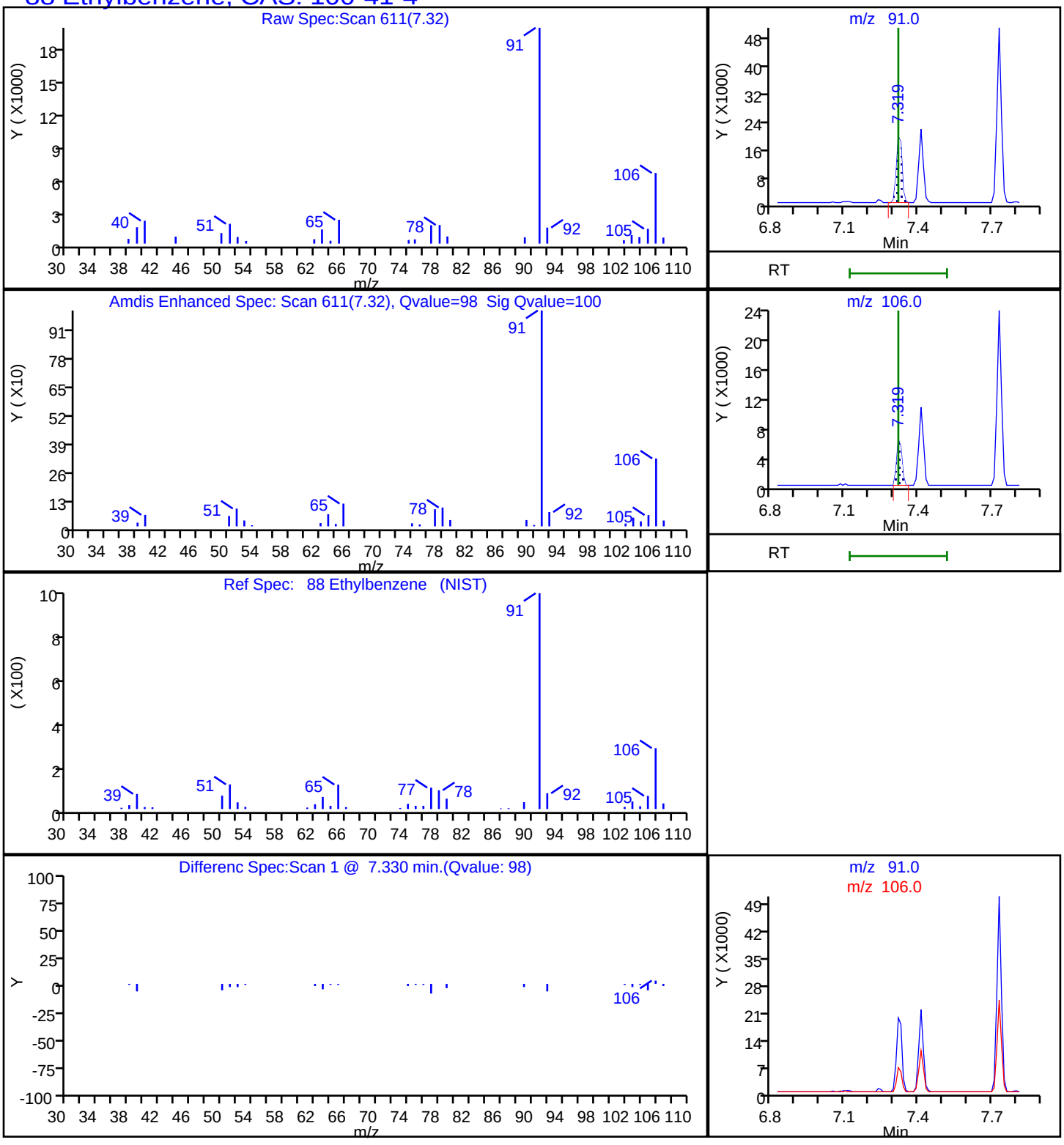


Report Date: 29-Nov-2020 08:52:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2736.D				
Injection Date:	28-Nov-2020 18:06:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-8	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

88 Ethylbenzene, CAS: 100-41-4

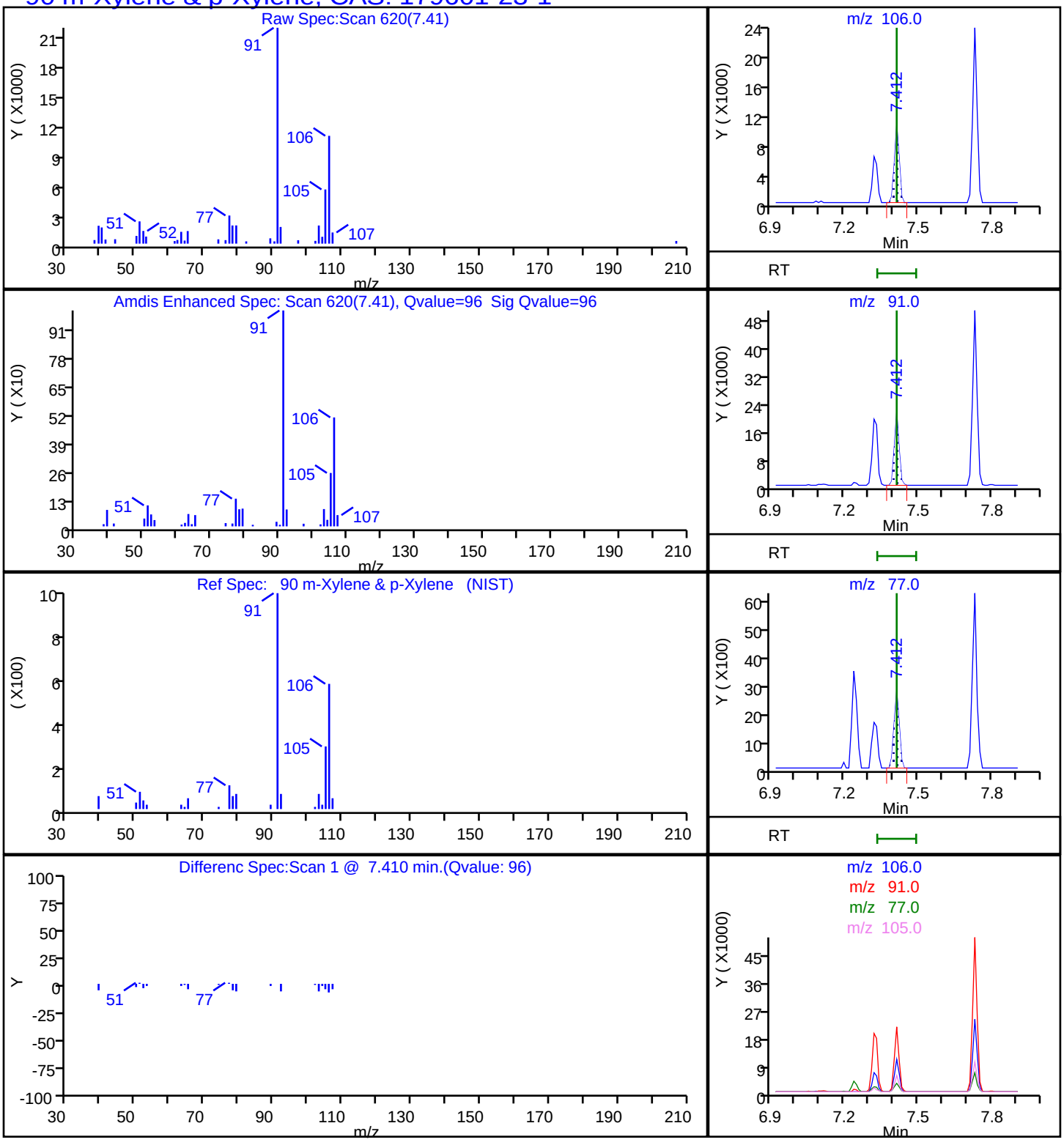


Report Date: 29-Nov-2020 08:52:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2736.D				
Injection Date:	28-Nov-2020 18:06:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-8	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

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

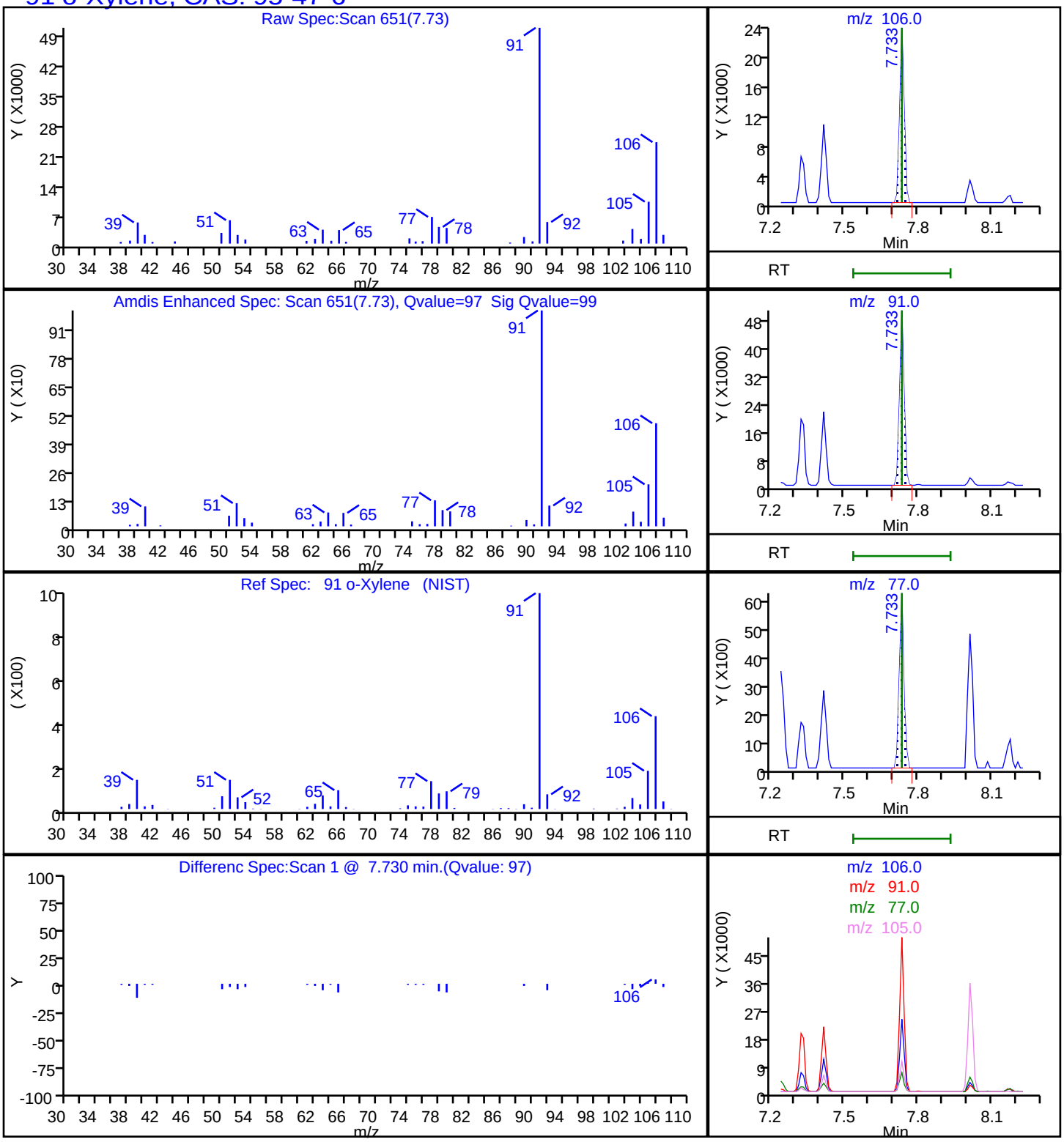


Report Date: 29-Nov-2020 08:52:43 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2736.D				
Injection Date:	28-Nov-2020 18:06:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-8	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	50
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-01-07-R Lab Sample ID: 480-178688-9

Matrix: Water Lab File ID: C2737.D

Analysis Method: 8260C Date Collected: 11/24/2020 12:24

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 18:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2737.D
Lims ID: 480-178688-E-9
Client ID: PZ-03-01-D
Sample Type: Client
Inject. Date: 28-Nov-2020 18:30:30 ALS Bottle#: 19 Worklist Smp#: 51
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-178688-e-9
Misc. Info.: 480-0095298-051
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:53:26 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:53:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	149352	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	85	275054	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	319152	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	92	262997	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	127476	22.7	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	94	725256	23.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	233606	23.3	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	Ua
88 Ethylbenzene	91		7.319				ND	Ua
90 m-Xylene & p-Xylene	106		7.412				ND	Ua
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

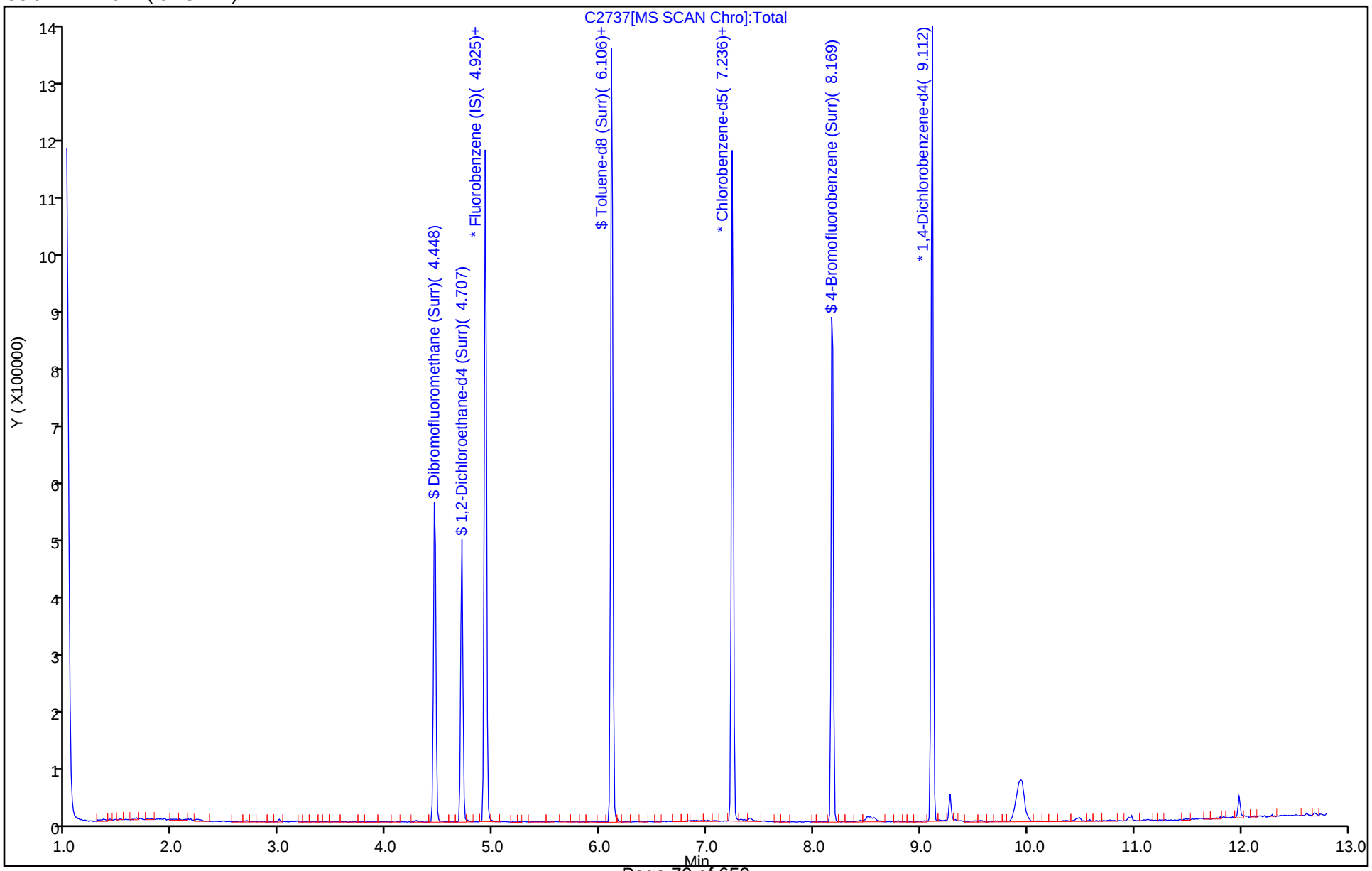
Report Date: 29-Nov-2020 08:53:26 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2737.D

Injection Date:	28-Nov-2020 18:30:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-E-9	Lab Sample ID:	480-178688-9	Worklist Smp#:	51
Client ID:	PZ-03-01-D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



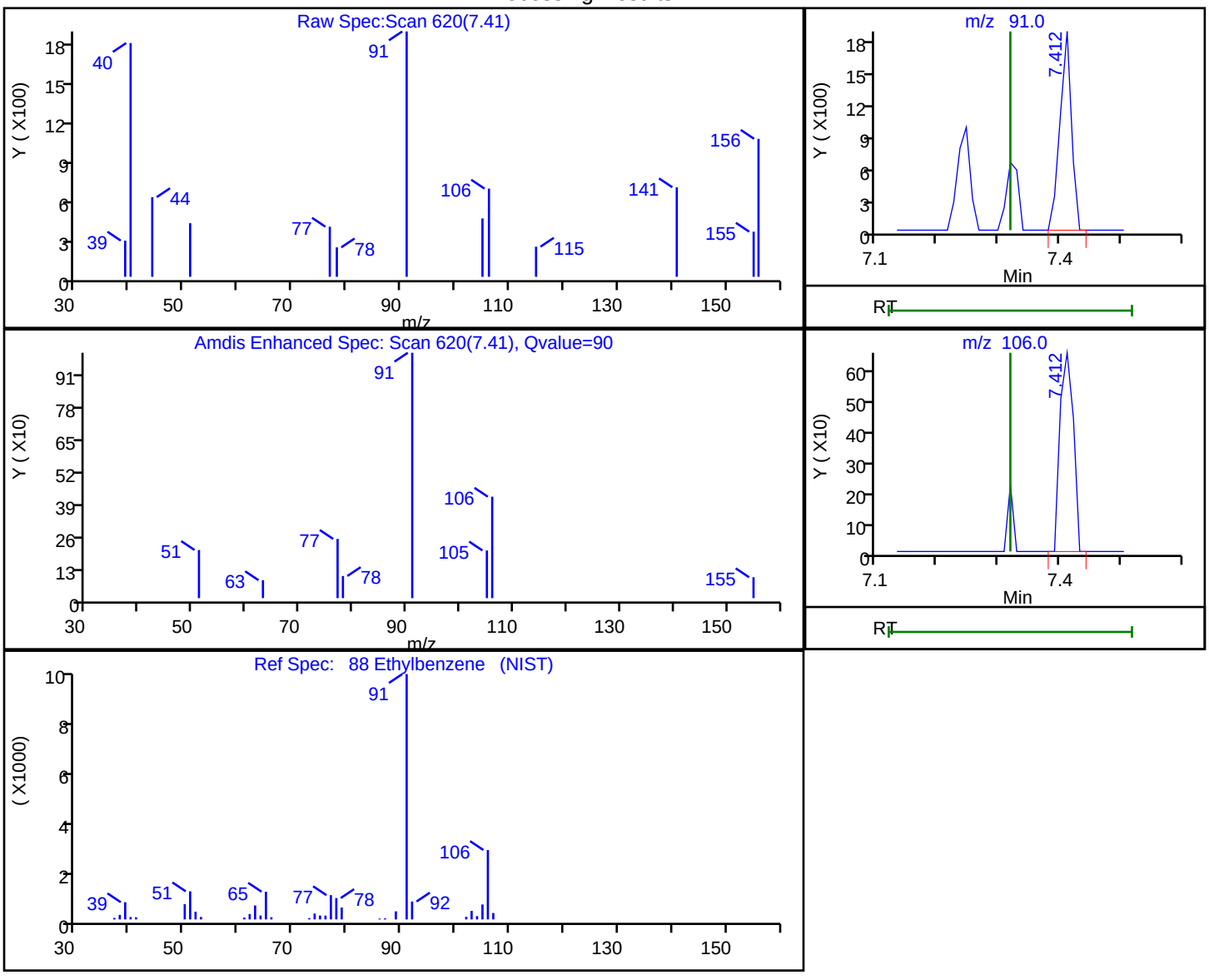
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2737.D				
Injection Date:	28-Nov-2020 18:30:30	Instrument ID:	HP5973C		
Lims ID:	480-178688-E-9	Lab Sample ID:	480-178688-9		
Client ID:	PZ-03-01-D				
Operator ID:	RF	ALS Bottle#:	19	Worklist Smp#:	51
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

88 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
7.41	91.00	2391	0.070224
7.41	106.00	991	

Reviewer: izquierdoo, 29-Nov-2020 08:53:07

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-178688-10

Matrix: Water Lab File ID: C2738.D

Analysis Method: 8260C Date Collected: 11/24/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 18:55

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2738.D				
Lims ID:	480-178688-A-10				
Client ID:	TRIP BLANK				
Sample Type:	Client				
Inject. Date:	28-Nov-2020 18:55:30	ALS Bottle#:	20	Worklist Smp#:	52
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-178688-a-10				
Misc. Info.:	480-0095298-052				
Operator ID:	RF	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Nov-2020 08:53:26	Calib Date:	18-Nov-2020 22:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1636				
First Level Reviewer: izquierdoo		Date:	29-Nov-2020 08:53:35		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	145598	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	254023	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	274971	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	263578	26.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	134653	24.6	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	94	702788	24.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	220412	23.8	
57 Benzene	78		4.707				ND	
74 Toluene	92		6.158				ND	
88 Ethylbenzene	91		7.319				ND	
90 m-Xylene & p-Xylene	106		7.412				ND	
91 o-Xylene	106		7.733				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

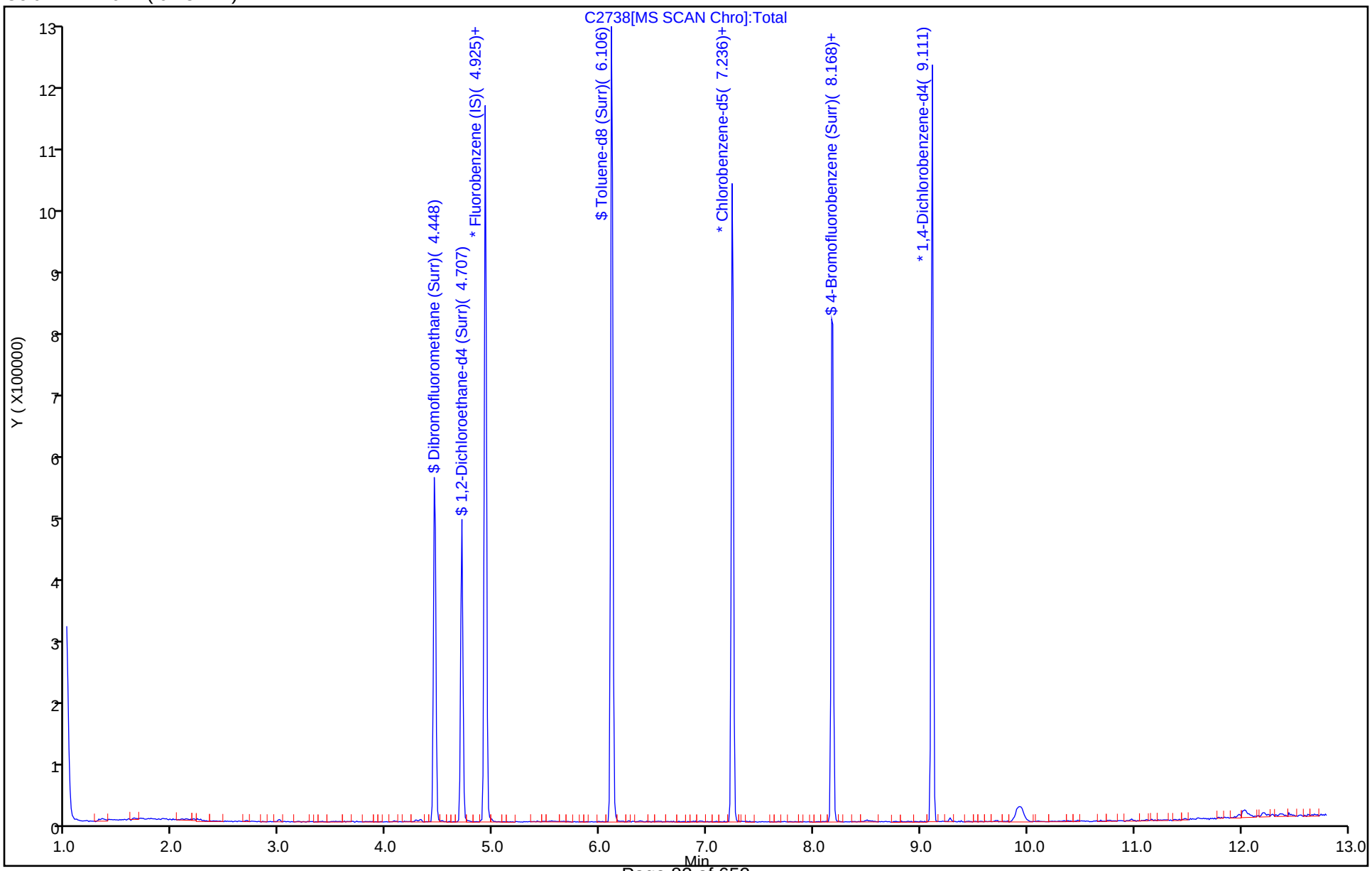
Report Date: 29-Nov-2020 08:53:35 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2738.D

Injection Date:	28-Nov-2020 18:55:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-A-10	Lab Sample ID:	480-178688-10	Worklist Smp#:	52
Client ID:	TRIP BLANK				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-559712/13	C2265.D
Level 2	IC 480-559712/14	C2266.D
Level 3	IC 480-559712/15	C2267.D
Level 4	IC 480-559712/16	C2268.D
Level 5	IC 480-559712/17	C2269.D
Level 6	ICIS 480-559712/18	C2270.D
Level 7	IC 480-559712/19	C2271.D
Level 8	IC 480-559712/20	C2272.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.2408 1.5022	1.5864 1.5528	1.3556 1.6588	1.4042	1.6404	Ave		1.4927			0.1000	9.9		20.0			
Chloromethane	1.3851 1.4598	1.6993 1.3811	1.4767 1.4218	1.3742	1.4802	Ave		1.4598			0.1000	7.3		20.0			
Vinyl chloride	1.1907 1.4968	1.6498 1.4916	1.4124 1.5328	1.4199	1.4847	Ave		1.4598			0.1000	9.0		20.0			
Butadiene	1.2478 1.3449	1.6112 1.3050	1.2808 1.3519	1.2305	1.3928	Ave		1.3456				8.9		20.0			
Bromomethane	+++++ 1.2392	1.5773 1.2238	1.4903 1.2530	1.3026	1.2789	Ave		1.3379			0.1000	10.4		20.0			
Chloroethane	1.1219 0.9909	1.2022 0.9453	0.9494 0.9486	0.9497	1.0181	Ave		1.0158			0.1000	9.5		20.0			
Trichlorofluoromethane	1.9627 2.5437	2.5556 2.5113	2.2244 2.5893	2.3821	2.5856	Ave		2.4193			0.1000	9.2		20.0			
Dichlorofluoromethane	2.1346 2.4260	2.5785 2.3660	2.3332 2.4052	2.3099	2.4411	Ave		2.3743				5.4		20.0			
Ethyl ether	1.2402 1.1430	1.2469 1.1299	1.2046 1.0617	1.1460	1.1566	Ave		1.1661				5.3		20.0			
Acrolein	0.0839 0.0739	0.0744 0.0800	0.0834 0.0594	0.0804	0.0759	Ave		0.0764				10.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3093 1.4230	1.7032 1.4534	1.3472 1.4882	1.5065	1.4940	Ave		1.4656			0.1000	8.1		20.0			
1,1-Dichloroethene	1.3068 1.2943	1.3621 1.2987	1.2999 1.2849	1.3595	1.3043	Ave		1.3138			0.1000	2.3		20.0			
Acetone	0.7298 0.6459	0.7582 0.6642	0.6848 0.3486	0.6743	0.6734	Ave		0.6474			0.1000	19.5		20.0			
Iodomethane	2.4512 2.5875	2.6138 2.5876	2.6328 2.5642	2.6775	2.5779	Ave		2.5866				2.5		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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.1347 4.2396	4.4128 4.3183	4.1911 4.3848	4.3722	4.3968	Ave		4.3063			0.1000	2.4		20.0			
Allyl chloride	1.7185 1.7225	1.7695 1.7304	1.6714 1.7214	1.6767	1.7683	Ave		1.7223				2.1		20.0			
Methyl acetate	1.2733 1.4093	1.5470 1.4323	1.4124 0.9724	1.4470	1.4212	Ave		1.3644			0.1000	12.8		20.0			
Methylene Chloride	2.6231 1.4729	1.8861 1.4601	1.7658 1.4068	1.6422	1.5654	Lin1	0.5460	1.4296			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.2996 0.3163	0.3299 0.3358	0.3160 +++++	0.3157	0.3374	Ave		0.3215				4.2		20.0			
Methyl tert-butyl ether	3.8230 4.2725	4.4353 4.3871	4.3434 4.1098	4.3840	4.3533	Ave		4.2636			0.1000	4.8		20.0			
trans-1,2-Dichloroethene	1.4336 1.4987	1.5127 1.5035	1.3494 1.4905	1.5604	1.5330	Ave		1.4852			0.1000	4.4		20.0			
Acrylonitrile	0.6986 0.7695	0.7911 0.7809	0.7614 0.5061	0.7789	0.7995	Ave		0.7357				13.3		20.0			
Hexane	1.6525 1.7329	1.9795 1.8196	1.6817 1.9044	1.7841	1.8108	Ave		1.7957				6.1		20.0			
1,1-Dichloroethane	2.1581 2.3454	2.5165 2.3306	2.2667 2.3105	2.4192	2.4489	Ave		2.3495			0.2000	4.8		20.0			
Vinyl acetate	2.6353 2.9554	2.8446 3.1599	2.7473 2.9350	2.7588	2.9247	Ave		2.8701				5.6		20.0			
2,2-Dichloropropane	1.2386 1.5485	1.4727 1.5596	1.3618 1.6540	1.5383	1.5233	Ave		1.4871				8.7		20.0			
cis-1,2-Dichloroethene	1.6845 1.6573	1.8217 1.6344	1.5878 1.5853	1.6954	1.6778	Ave		1.6680			0.1000	4.5		20.0			
2-Butanone (MEK)	0.9394 0.9441	1.0140 1.0006	0.9000 0.7011	0.9472	0.9915	Ave		0.9297			0.1000	10.7		20.0			
Chlorobromomethane	0.9817 0.9212	1.0198 0.9256	0.9653 0.8598	0.9513	0.9500	Ave		0.9468				5.0		20.0			
Tetrahydrofuran	+++++ 0.6362	0.9363 0.6463	0.7403 +++++	0.6754	0.6905	Ave		0.7208				15.5		20.0			
Chloroform	2.8204 2.5401	2.8929 2.5399	2.6676 2.4736	2.7455	2.5981	Ave		2.6598			0.2000	5.6		20.0			
1,1,1-Trichloroethane	1.6420 2.0538	2.1295 2.1153	1.8906 2.1401	2.0538	2.1236	Ave		2.0186			0.1000	8.5		20.0			
Cyclohexane	1.5738 2.1091	2.1822 2.1248	1.9946 2.1525	2.1607	2.1302	Ave		2.0535			0.1000	9.8		20.0			
Carbon tetrachloride	1.4755 1.8067	1.7290 1.8705	1.5507 1.9375	1.7672	1.8185	Ave		1.7444			0.1000	9.0		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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.4406 1.8465	1.9669 1.8991	1.6964 1.9078	1.9247	1.9195	Ave		1.8252				9.6		20.0			
Benzene	4.5705 5.2570	5.4166 5.3077	5.1032 5.2712	5.3914	5.3230	Ave		5.2051			0.5000	5.3		20.0			
Isobutyl alcohol	0.0945 0.1099	0.0970 0.1149	0.1022 0.0589	0.1045	0.1151	Ave		0.0996				18.2		20.0			
1,2-Dichloroethane	1.8714 1.9573	2.2913 1.9874	2.0128 1.8598	2.0397	1.9555	Ave		1.9969			0.1000	6.7		20.0			
n-Heptane	1.6332 1.6151	1.7978 1.7229	1.5097 2.0677	1.5771	1.6878	Ave		1.7014				10.1		20.0			
Trichloroethene	1.3819 1.5044	1.5279 1.5281	1.4482 1.5151	1.5320	1.5302	Ave		1.4960			0.2000	3.6		20.0			
Methylcyclohexane	1.7822 2.4399	2.4613 2.5157	2.1510 2.4906	2.4776	2.4962	Ave		2.3518			0.1000	11.0		20.0			
1,2-Dichloropropane	1.1904 1.1998	1.2312 1.2211	1.0812 1.2059	1.1853	1.2148	Ave		1.1912			0.1000	3.9		20.0			
1,4-Dioxane	0.0129 0.0139	0.0136 0.0137	0.0139 0.0103	0.0155	0.0148	Ave		0.0136				11.5		20.0			
Dibromomethane	0.9074 1.0127	1.0355 1.0306	1.0125 0.9663	0.9901	1.0109	Ave		0.9958			0.1000	4.2		20.0			
Bromodichloromethane	1.4971 1.7176	1.8220 1.7903	1.5335 1.7997	1.6244	1.6953	Ave		1.6850			0.2000	7.3		20.0			
2-Chloroethyl vinyl ether	0.6781 0.8378	0.7935 0.9158	0.7328 0.9068	0.7735	0.8950	Ave		0.8167				10.7		20.0			
cis-1,3-Dichloropropene	1.4467 1.9148	1.8452 2.0287	1.6438 2.1360	1.7804	1.9147	Ave		1.8388			0.2000	11.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.8313 0.9275	0.9163 0.9766	0.8663 0.8036	0.8956	0.9698	Ave		0.8984			0.1000	6.9		20.0			
Toluene	1.5963 1.6149	1.7754 1.6937	1.6233 1.7238	1.6632	1.7455	Ave		1.6795			0.4000	3.9		20.0			
trans-1,3-Dichloropropene	0.7060 0.8812	0.8329 0.9435	0.7592 1.0393	0.8235	0.9138	Ave		0.8624			0.1000	12.3		20.0			
Ethyl methacrylate	0.7424 0.8386	0.7642 0.9115	0.7751 0.9697	0.7614	0.8958	Ave		0.8323				10.2		20.0			
1,1,2-Trichloroethane	0.4719 0.5363	0.5501 0.5401	0.4889 0.5551	0.5176	0.5464	Ave		0.5258			0.1000	5.8		20.0			
Tetrachloroethene	0.7576 0.7739	0.8544 0.8120	0.7475 0.8358	0.7905	0.8045	Ave		0.7970			0.2000	4.7		20.0			
1,3-Dichloropropane	0.8726 1.0262	1.1053 1.0554	1.0009 1.0923	1.0502	1.1009	Ave		1.0380				7.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.5560 0.6081	0.6004 0.6511	0.5588 0.6517	0.5874	0.6613	Ave		0.6094			0.1000	6.9		20.0			
Dibromochloromethane	0.5846 0.6896	0.6569 0.7414	0.6361 0.8056	0.6495	0.7082	Ave		0.6840			0.1000	10.0		20.0			
1,2-Dibromoethane	0.6164 0.7119	0.6793 0.7305	0.5974 0.7738	0.6927	0.7439	Ave		0.6932				8.8		20.0			
Chlorobenzene	1.9084 1.9195	1.9888 1.9685	1.8829 2.0882	1.9419	2.0261	Ave		1.9655			0.5000	3.4		20.0			
Ethylbenzene	2.6266 3.0878	3.0886 3.2268	3.0181 3.3419	3.0999	3.2678	Ave		3.0947			0.1000	7.1		20.0			
1,1,1,2-Tetrachloroethane	0.5784 0.6932	0.6586 0.7338	0.6663 0.7606	0.6649	0.6739	Ave		0.6787				8.0		20.0			
m,p-Xylene	1.1077 1.2078	1.1579 1.2358	1.1578 1.2862	1.2128	1.2676	Ave		1.2042			0.1000	5.0		20.0			
o-Xylene	1.0924 1.2194	1.1554 1.2631	1.1973 1.2998	1.2553	1.2490	Ave		1.2165			0.3000	5.5		20.0			
Styrene	1.5205 1.8744	1.6388 2.0198	1.5796 2.1502	1.8475	1.9093	Ave		1.8175			0.3000	12.1		20.0			
Bromoform	0.4665 0.4738	0.4379 0.5192	0.4004 0.5870	0.4391	0.4496	Ave		0.4717			0.1000	12.2		20.0			
Isopropylbenzene	2.3829 2.9185	2.6493 3.1004	2.6408 3.3694	3.0498	3.1784	Ave		2.9112			0.1000	11.3		20.0			
Bromobenzene	0.7349 0.7529	0.7131 0.7988	0.7125 0.8853	0.7949	0.8287	Ave		0.7777				7.8		20.0			
1,1,2,2-Tetrachloroethane	0.8777 0.9061	0.8582 0.9458	0.8978 1.0316	0.9620	0.9702	Ave		0.9312			0.3000	6.1		20.0			
N-Propylbenzene	3.0772 3.4111	3.2589 3.6363	3.0632 3.9822	3.6044	3.7155	Ave		3.4686				9.3		20.0			
1,2,3-Trichloropropane	0.3356 0.3137	0.2889 0.3249	0.3118 0.3446	0.3572	0.3565	Ave		0.3291				7.3		20.0			
trans-1,4-Dichloro-2-butene	0.2564 0.2310	0.1800 0.2508	0.2114 0.2772	0.2264	0.2453	Ave		0.2348				12.7		20.0			
2-Chlorotoluene	0.5508 0.7223	0.7514 0.7641	0.7156 0.8247	0.8044	0.8065	Ave		0.7425				11.7		20.0			
1,3,5-Trimethylbenzene	2.0535 2.4877	2.2421 2.5966	2.1321 2.8353	2.5527	2.6244	Ave		2.4405				11.1		20.0			
4-Chlorotoluene	0.7422 0.7229	0.6609 0.7641	0.6994 0.8295	0.7932	0.7886	Ave		0.7501				7.3		20.0			
tert-Butylbenzene	0.4193 0.5627	0.4515 0.5938	0.5019 0.6619	0.5542	0.6082	Ave		0.5442				15.0		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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.1142 2.5136	2.2268 2.6507	2.2694 2.8746	2.5606	2.6729	Ave		2.4854				10.4		20.0			
sec-Butylbenzene	2.2996 3.2136	2.8004 3.4170	2.7103 3.7642	3.2472	3.4021	Ave		3.1068				15.1		20.0			
4-Isopropyltoluene	2.2379 2.7363	2.4192 2.9684	2.3366 3.2950	2.7887	2.9059	Ave		2.7110				13.2		20.0			
1,3-Dichlorobenzene	1.4894 1.4513	1.3709 1.5180	1.4488 1.6647	1.6067	1.5823	Ave		1.5165			0.6000	6.4		20.0			
1,4-Dichlorobenzene	1.4894 1.4626	1.5032 1.5283	1.4937 1.6767	1.6105	1.6689	Ave		1.5542			0.5000	5.5		20.0			
n-Butylbenzene	2.0558 2.4605	2.4074 2.6347	2.1820 2.9104	2.6185	2.6999	Ave		2.4961				11.2		20.0			
1,2-Dichlorobenzene	1.3937 1.5022	1.5598 1.5686	1.5272 1.7209	1.6320	1.6350	Ave		1.5674			0.4000	6.3		20.0			
1,2-Dibromo-3-Chloropropane	0.1963 0.1957	0.1997 0.2167	0.1995 0.2394	0.2173	0.2132	Ave		0.2097			0.0500	7.2		20.0			
1,2,4-Trichlorobenzene	0.9589 1.1967	1.1832 1.2479	1.2185 1.3544	1.2429	1.2585	Ave		1.2076			0.2000	9.4		20.0			
Hexachlorobutadiene	0.4688 0.5110	0.5115 0.5613	0.4747 0.6244	0.5724	0.5459	Ave		0.5337				9.8		20.0			
Naphthalene	3.2801 3.7537	3.2391 4.0037	3.3210 4.3112	3.7691	3.9150	Ave		3.6991				10.5		20.0			
1,2,3-Trichlorobenzene	1.0889 1.1782	1.0402 1.2339	1.0849 1.3516	1.3139	1.2628	Ave		1.1943				9.6		20.0			
Dibromofluoromethane (Surr)	1.7601 1.7638	1.7935 1.6958	1.7993 1.6146	1.7837	1.6975	Ave		1.7385				3.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.9662 0.9474	0.9647 0.9190	0.9711 0.8516	0.9594	0.9421	Ave		0.9402				4.2		20.0			
Toluene-d8 (Surr)	2.9330 2.7094	2.8321 2.7282	2.7951 2.8086	2.7739	2.8790	Ave		2.8074				2.6		20.0			
4-Bromofluorobenzene (Surr)	0.9568 0.8838	0.9189 0.8652	0.9011 0.9734	0.8813	0.9037	Ave		0.9105				4.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-559712/13	C2265.D
Level 2	IC 480-559712/14	C2266.D
Level 3	IC 480-559712/15	C2267.D
Level 4	IC 480-559712/16	C2268.D
Level 5	IC 480-559712/17	C2269.D
Level 6	ICIS 480-559712/18	C2270.D
Level 7	IC 480-559712/19	C2271.D
Level 8	IC 480-559712/20	C2272.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3912 301280	12177 628911	20623 1347540	54276	129213	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	4367 292774	13043 559369	22466 1155002	53115	116596	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	3754 300200	12663 604108	21487 1245185	54881	116950	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	3934 269743	12367 528544	19485 1098185	47561	109705	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 248539	12107 495678	22673 1017851	50348	100737	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	3537 198747	9228 382871	14444 770595	36709	80196	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	6188 510171	19616 1017112	33840 2103464	92074	203663	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	6730 486563	19792 958288	35496 1953918	89284	192285	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	3910 229246	9571 457628	18326 862501	44296	91101	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	1322 74100	2856 161955	6341 241345	15547	29876	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4128 285405	13073 588662	20496 1208962	58229	117677	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	4120 259597	10455 525990	19775 1043809	52548	102737	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	11505 647713	29099 1345132	52091 1416096	130315	265219	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	7728 518960	20063 1048048	40054 2083024	103490	203059	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13036	33871	63760	168994	346328	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			850297	1749013	3561979			25.0	50.0	100		
Allyl chloride	FB	Ave	5418 345470	13582 700834	25427 1398365	64809	139289	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	8029 565322	23748 1160235	42973 1579810	111856	223892	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	8270 295405	14477 591387	26864 1142845	63473	123302	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	9446 634318	25319 1359864	48073 +++++	122023	265751	4.00 250	10.0 500	20.0 +++++	50.0	100
Methyl tert-butyl ether	FB	Ave	12053 856915	34044 1776873	66078 3338648	169449	342901	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4520 300589	11611 608929	20529 1210847	60313	120752	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	22026 1543333	60722 3162608	115835 4111531	301069	629718	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	5210 347562	15194 736983	25584 1547025	68959	142632	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	6804 470404	19316 943938	34484 1876974	93505	192898	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	16617 1185473	43668 2559656	83590 4768594	213266	460746	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3905 310575	11304 631677	20717 1343630	59457	119986	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5311 332397	13983 661977	24156 1287821	65529	132158	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	14809 946754	38917 2026410	68456 2847875	183059	390479	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	3095 184765	7828 374898	14685 698462	36770	74831	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 255181	14373 523557	22524 +++++	52211	108774	+++++ 50.0	2.00 100	4.00 +++++	10.0	20.0
Chloroform	FB	Ave	8892 509443	22205 1028692	40583 2009452	106119	204650	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	5177 411914	16345 856759	28762 1738544	79384	167273	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	4962 422999	16750 860590	30344 1748623	83514	167792	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4652 362355	13271 757571	23591 1573909	68306	143243	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4542 370337	15097 769187	25808 1549796	74392	151199	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	14410	41576	77637	208389	419282	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1054357	2149706	4282126			25.0	50.0	100		
Isobutyl alcohol	FB	Ave	7445 551223	18620 1163430	38857 1196455	100945	226753	10.0 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5900 392557	17587 804922	30622 1510780	78839	154030	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	5149 323931	13799 697819	22968 1679743	60957	132942	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4357 301722	11728 618897	22032 1230783	59215	120532	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	5619 489348	18892 1018913	32724 2023246	95766	196623	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	3753 240628	9450 494574	16448 979626	45813	95689	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Ave	1499 108212	3966 215038	8016 322919	22858	45279	8.00 500	20.0 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	2861 203118	7948 417433	15404 784984	38270	79630	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	4720 344486	13985 725095	23330 1461972	62787	133533	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	2138 168039	6091 370934	11149 736627	29898	70500	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	4561 384044	14163 821681	25007 1735168	68817	150817	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	24180 1808438	66566 3827918	124969 6321038	329467	740835	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	9286 629710	25796 1327782	46831 2711951	122366	266688	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	4107 343605	12102 739668	21902 1635025	60584	139611	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	4319 326993	11104 714576	22362 1525501	56018	136869	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	2745 209141	7992 423409	14105 873290	38081	83475	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	4407 301769	12414 636574	21565 1314971	58160	122909	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,3-Dichloropropane	CBNZd5	Ave	5076 400172	16059 827361	28876 1718421	77267	168206	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	16172 1185705	43614 2552047	80602 5126700	216085	505213	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	3401 268898	9544 581236	18351 1267458	47785	108197	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	3586 277586	9870 572652	17236 1217435	50961	113656	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	11102 748514	28896 1543235	54321 3285207	142872	309553	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	15280 1204062	44876 2529668	87071 5257654	228070	499264	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	3365 270324	9569 575272	19223 1196589	48922	102968	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	6444 470976	16824 968845	33403 2023434	89232	193664	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	6355 475495	16787 990228	34542 2044862	92357	190828	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	8845 730911	23811 1583476	45570 3382734	135923	291709	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Ave	2714 184764	6363 407055	11551 923462	32304	68685	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	14691 1267947	44264 2652070	85285 5493116	237333	511052	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	4531 327088	11915 683326	23010 1443347	61862	133250	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	5411 393654	14339 809007	28994 1681894	74862	155994	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	18971 1481958	54449 3110458	98925 6492227	280487	597405	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd4	Ave	2069 136268	4827 277937	10069 561736	27800	57323	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
trans-1,4-Dichloro-2-butene	DCBd4	Ave	1581 100367	3008 214566	6826 451869	17619	39444	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	3396 313797	12554 653655	23109 1344508	62600	129682	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	12660 1080791	37461 2221138	68856 4622402	198650	421966	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	4576 314084	11042 653602	22588 1352277	61724	126803	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	2585 244450	7544 507899	16209 1079170	43127	97786	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	13034 1092061	37205 2267429	73291 4686412	199264	429774	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	14177 1396157	46789 2922923	87529 6136774	252696	547016	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	13797 1188821	40420 2539169	75461 5371774	217013	467233	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	9182 630521	22905 1298489	46788 2713961	125032	254409	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	9182 635438	25116 1307306	48240 2733581	125330	268345	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	12674 1068975	40223 2253715	70467 4744770	203770	434118	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	8592 652657	26061 1341804	49320 2805654	126999	262885	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1210 85022	3337 185365	6443 390373	16910	34273	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	5912 519922	19769 1067473	39351 2208002	96720	202345	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	2890 221990	8546 480124	15329 1017907	44546	87775	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	20222 1630835	54118 3424777	107252 7028598	293303	629480	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	6713 511889	17379 1055457	35036 2203484	102250	203041	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	346827 353751	344161 343408	342175 327907	344723	334270	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	190384 190005	185125 186099	184668 172948	185408	185526	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	1066394 1056493	1028707 1069390	1007987 1104636	1020415	1099665	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 559712

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/18/2020 15:16 Calibration End Date: 11/18/2020 18:12 Calibration ID: 40674

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	347875 344630	333774 339137	324956 382857	324208	345189	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Nov-2020 15:16:30 ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 0.4
Misc. Info.: 480-0095057-013
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:02:54 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 19:59:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	197050	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	363583	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	95	385318	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	346827	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	190384	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	94	1066394	25.0	26.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	347875	25.0	26.3	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	91	3912	0.4000	0.3325	
12 Chloromethane	50	1.298	1.308	-0.010	76	4367	0.4000	0.3795	
13 Vinyl chloride	62	1.401	1.401	0.000	89	3754	0.4000	0.3263	
151 Butadiene	54	1.412	1.412	0.000	96	3934	0.4000	0.3709	
14 Bromomethane	94	1.692	1.692	0.000	86	9387	0.4000	0.8902	M
15 Chloroethane	64	1.775	1.774	0.001	91	3537	0.4000	0.4418	Ma
16 Dichlorofluoromethane	67	2.003	2.002	0.001	92	6730	0.4000	0.3596	
17 Trichlorofluoromethane	101	1.992	2.002	-0.010	82	6188	0.4000	0.3245	
18 Ethyl ether	59	2.293	2.293	0.000	63	3910	0.4000	0.4254	
20 Acrolein	56	2.479	2.469	0.010	0	1322	2.00	2.20	M
22 1,1-Dichloroethene	96	2.510	2.500	0.010	95	4120	0.4000	0.3979	
21 112TCTFE	101	2.490	2.500	-0.010	71	4128	0.4000	0.3573	
23 Acetone	43	2.624	2.624	0.000	20	11505	2.00	2.25	a
25 Iodomethane	142	2.655	2.655	0.000	98	7728	0.4000	0.3791	
26 Carbon disulfide	76	2.697	2.697	0.000	85	13036	0.4000	0.3841	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	85	5418	0.4000	0.3991	
27 Methyl acetate	43	2.914	2.904	0.010	95	8029	0.8000	0.7466	
30 Methylene Chloride	84	2.997	2.997	0.000	89	8270	0.4000	0.3520	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	74	9446	4.00	3.73	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	95	12053	0.4000	0.3587	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	93	4520	0.4000	0.3861	
33 Acrylonitrile	53	3.256	3.256	0.000	94	22026	4.00	3.80	a
35 Hexane	57	3.381	3.381	0.000	95	5210	0.4000	0.3681	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.588	3.578	0.010	93	6804	0.4000	0.3674	a
37 Vinyl acetate	43	3.630	3.629	0.001	97	16617	0.8000	0.7345	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	87	3905	0.4000	0.3332	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	75	5311	0.4000	0.4040	
43 2-Butanone (MEK)	43	4.096	4.085	0.011	100	14809	2.00	2.02	a
48 Chlorobromomethane	128	4.262	4.262	0.000	67	3095	0.4000	0.4147	
49 Tetrahydrofuran	42	4.282	4.272	0.010	85	6765	0.8000	1.19	
50 Chloroform	83	4.324	4.324	0.000	90	8892	0.4000	0.4242	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	93	5177	0.4000	0.3254	
52 Cyclohexane	56	4.417	4.427	-0.010	82	4962	0.4000	0.3066	a
55 Carbon tetrachloride	117	4.531	4.531	0.000	77	4652	0.4000	0.3383	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	84	4542	0.4000	0.3157	
57 Benzene	78	4.707	4.707	0.000	56	14410	0.4000	0.3512	
53 Isobutyl alcohol	43	4.718	4.718	0.000	44	7445	10.0	9.48	
58 1,2-Dichloroethane	62	4.759	4.769	-0.010	95	5900	0.4000	0.3749	
59 n-Heptane	43	4.842	4.842	0.000	77	5149	0.4000	0.3840	
62 Trichloroethene	95	5.194	5.194	0.000	89	4357	0.4000	0.3695	
64 Methylcyclohexane	83	5.288	5.298	-0.010	87	5619	0.4000	0.3031	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	91	3753	0.4000	0.3997	a
66 1,4-Dioxane	88	5.505	5.505	0.000	0	1499	8.00	7.59	M
67 Dibromomethane	93	5.505	5.505	0.000	96	2861	0.4000	0.3645	a
68 Dichlorobromomethane	83	5.619	5.619	0.000	97	4720	0.4000	0.3554	
69 2-Chloroethyl vinyl ether	63	5.816	5.826	-0.010	80	2138	0.4000	0.3321	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	93	4561	0.4000	0.3147	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	24180	2.00	1.85	
74 Toluene	92	6.158	6.158	0.000	97	9286	0.4000	0.3802	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	90	4107	0.4000	0.3275	
75 Ethyl methacrylate	69	6.396	6.386	0.010	82	4319	0.4000	0.3568	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	89	2745	0.4000	0.3590	
81 Tetrachloroethene	166	6.573	6.573	0.000	86	4407	0.4000	0.3802	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	89	5076	0.4000	0.3363	
80 2-Hexanone	43	6.676	6.676	0.000	95	16172	2.00	1.82	
83 Chlorodibromomethane	129	6.821	6.821	0.000	90	3401	0.4000	0.3419	
84 Ethylene Dibromide	107	6.904	6.904	0.000	94	3586	0.4000	0.3557	
87 Chlorobenzene	112	7.267	7.256	0.011	88	11102	0.4000	0.3884	
88 Ethylbenzene	91	7.319	7.319	0.000	97	15280	0.4000	0.3395	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	0	3365	0.4000	0.3409	M
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	6444	0.4000	0.3680	
91 o-Xylene	106	7.733	7.733	0.000	95	6355	0.4000	0.3592	
92 Styrene	104	7.754	7.754	0.000	95	8845	0.4000	0.3346	
95 Bromoform	173	7.951	7.951	0.000	90	2714	0.4000	0.3956	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	14691	0.4000	0.3274	
101 Bromobenzene	156	8.303	8.303	0.000	85	4531	0.4000	0.3780	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	94	5411	0.4000	0.3770	
99 N-Propylbenzene	91	8.345	8.345	0.000	98	18971	0.4000	0.3549	a
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	85	2069	0.4000	0.4078	a
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	73	1581	0.4000	0.4368	
103 2-Chlorotoluene	126	8.438	8.438	0.000	96	3396	0.4000	0.2968	
102 1,3,5-Trimethylbenzene	105	8.479	8.490	-0.011	91	12660	0.4000	0.3366	
105 4-Chlorotoluene	126	8.531	8.531	0.000	95	4576	0.4000	0.3958	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	2585	0.4000	0.3082	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	96	13034	0.4000	0.3403	

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	8.925	8.925	0.000	93	14177	0.4000	0.2961	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	96	13797	0.4000	0.3302	
111 1,3-Dichlorobenzene	146	9.049	9.060	-0.011	95	9182	0.4000	0.3928	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	88	9182	0.4000	0.3833	
115 n-Butylbenzene	91	9.381	9.381	0.000	96	12674	0.4000	0.3294	a
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	94	8592	0.4000	0.3557	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	0	1210	0.4000	0.3743	M
119 1,2,4-Trichlorobenzene	180	10.759	10.770	-0.011	94	5912	0.4000	0.3176	
120 Hexachlorobutadiene	225	10.873	10.863	0.010	90	2890	0.4000	0.3513	
121 Naphthalene	128	10.977	10.977	0.000	96	20222	0.4000	0.3547	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	93	6713	0.4000	0.3647	
S 126 1,3-Dichloropropene, Total	1				0			0.6421	
S 125 1,2-Dichloroethene, Total	1				0			0.7901	
S 123 Total BTEX	1				0			1.80	
S 124 Xylenes, Total	1				0			0.7272	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00198	Amount Added:	0.40	Units: uL	
GAS CORP mix_00427	Amount Added:	0.40	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

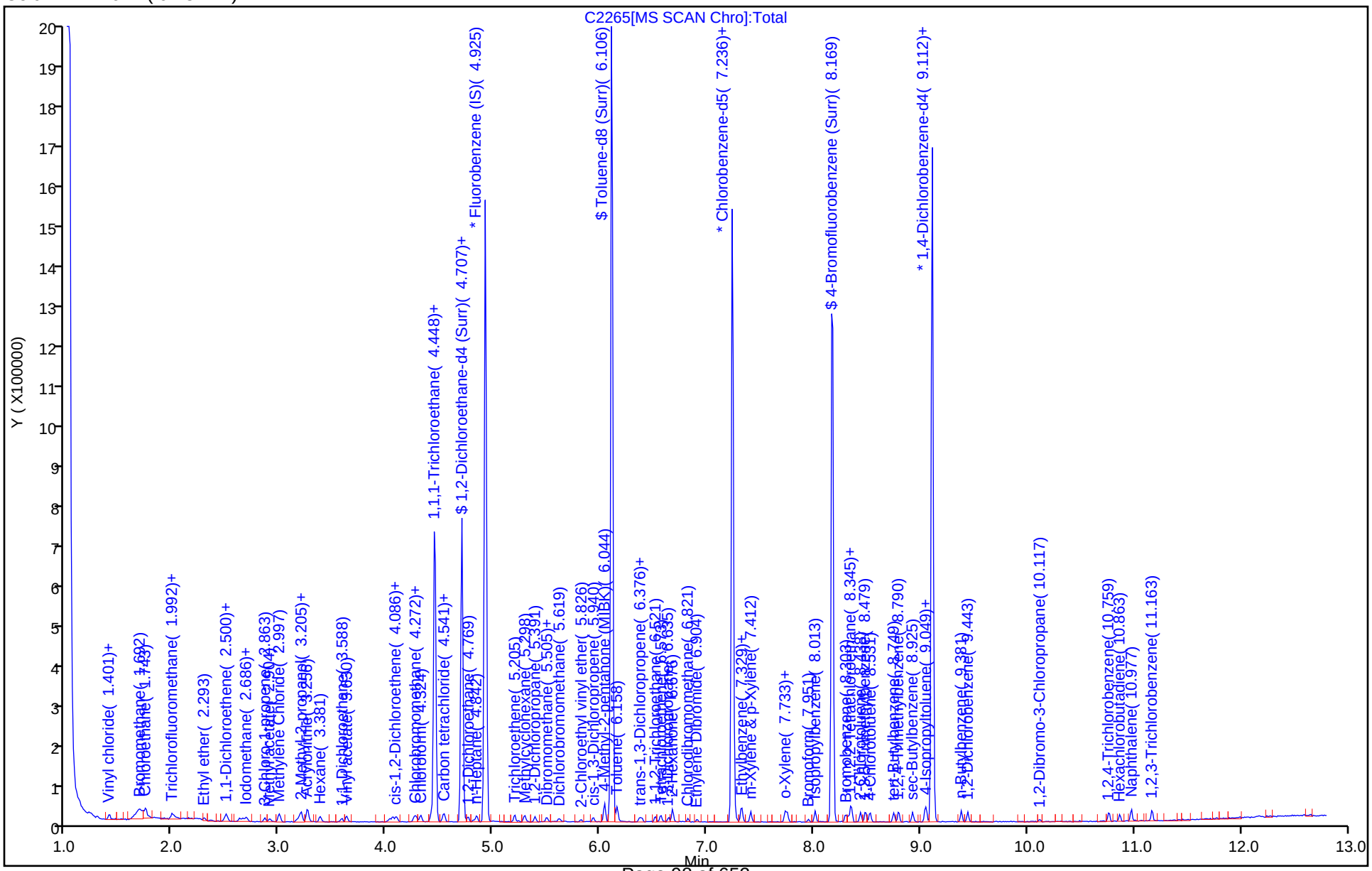
Report Date: 19-Nov-2020 12:02:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D

Injection Date:	18-Nov-2020 15:16:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC 0.4			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

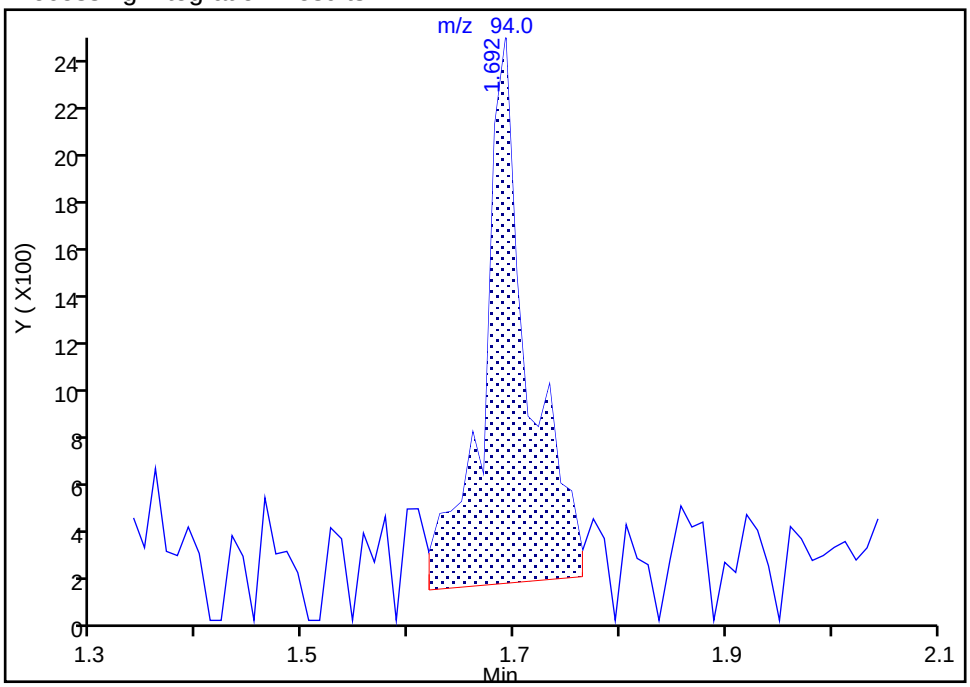
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

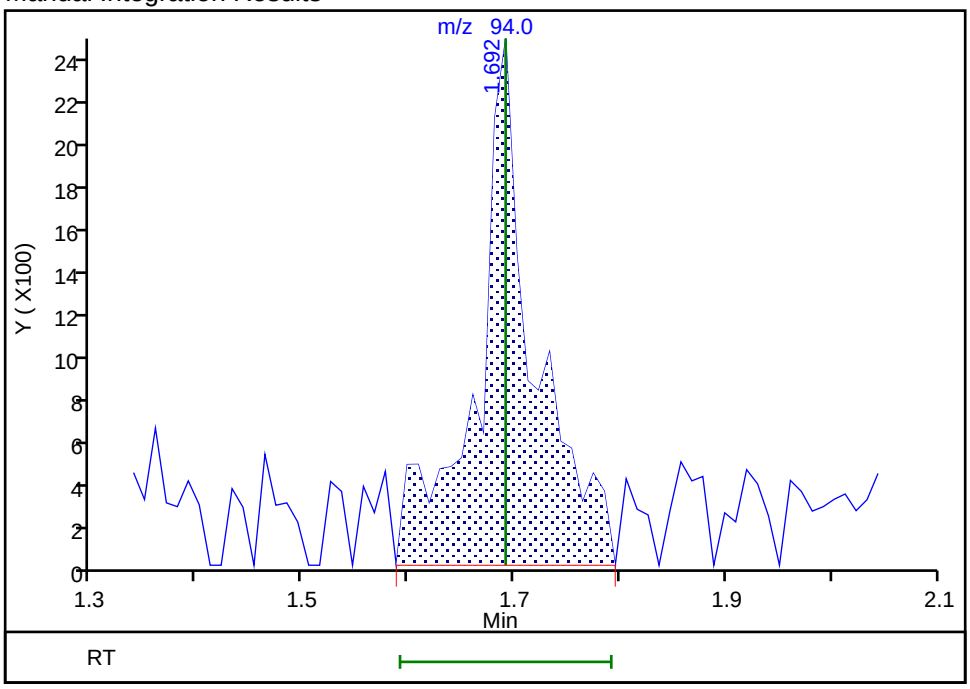
Processing Integration Results

RT: 1.69
Area: 6828
Amount: 0.397650
Amount Units: ug/L



Manual Integration Results

RT: 1.69
Area: 9387
Amount: 0.890170
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:01:19
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

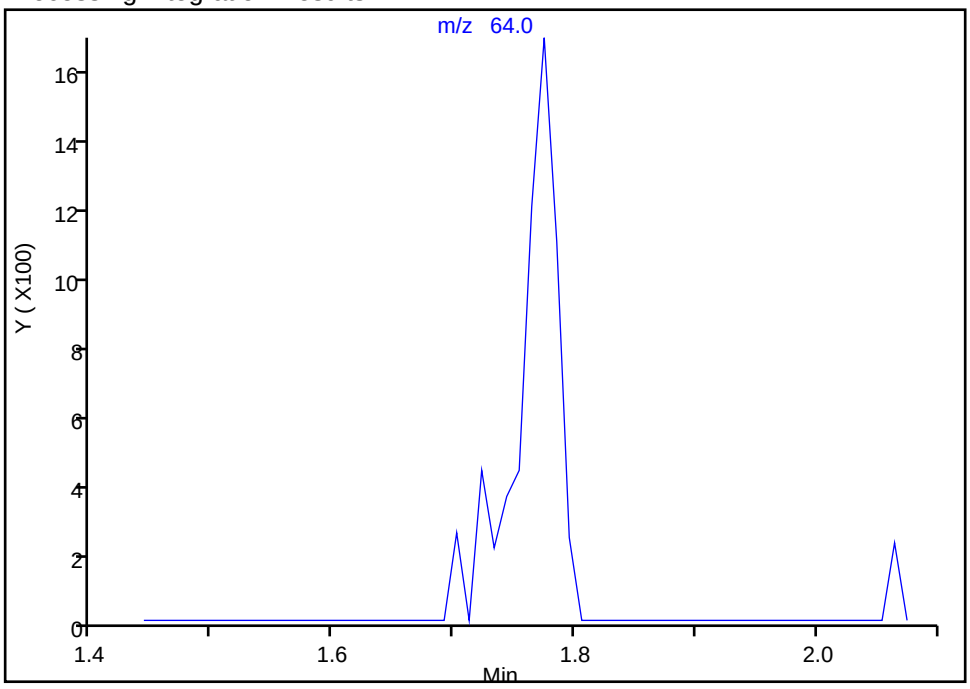
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

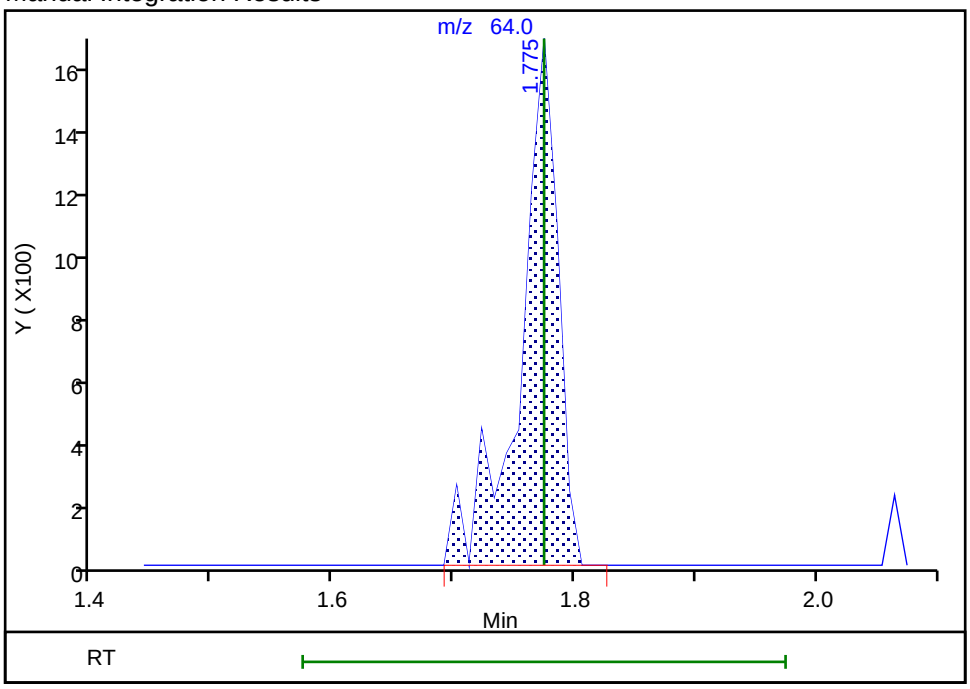
Not Detected
Expected RT: 1.77

Processing Integration Results



Manual Integration Results

RT: 1.77
Area: 3537
Amount: 0.441773
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:55:37
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

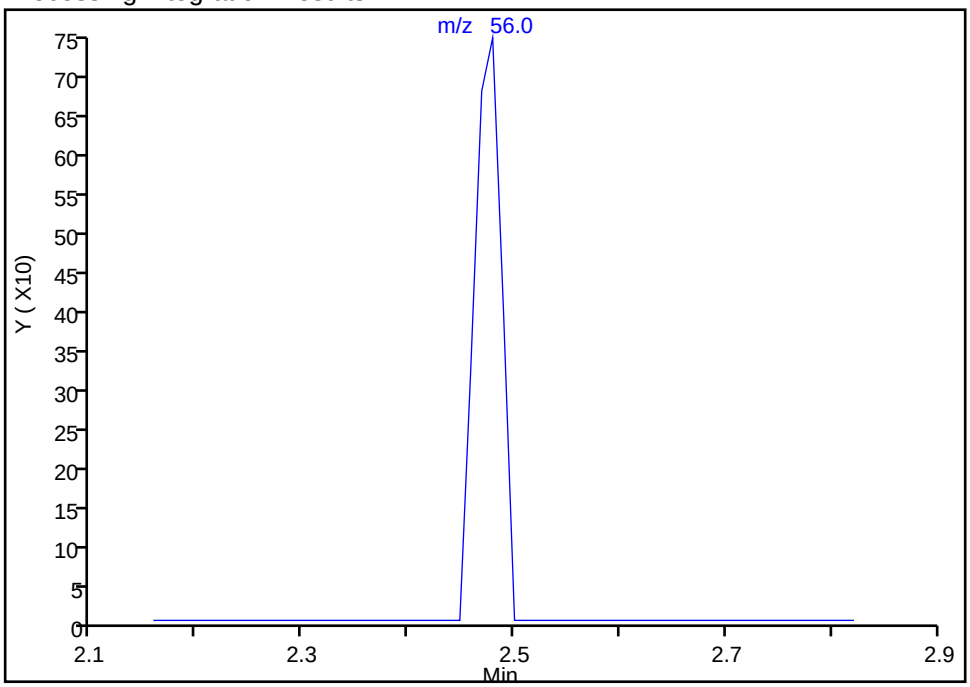
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

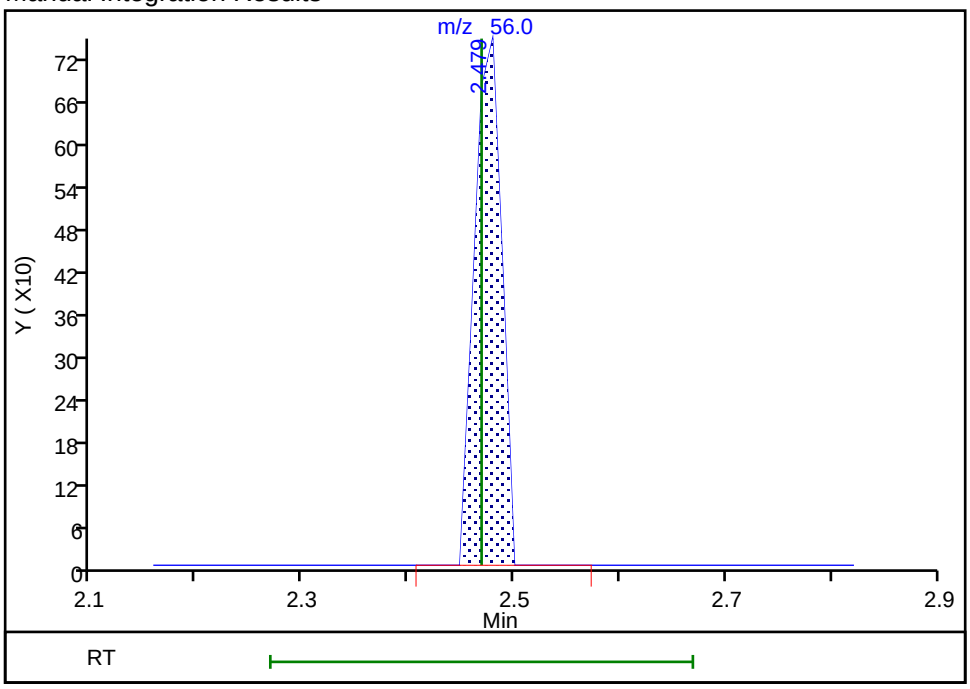
Not Detected
Expected RT: 2.47

Processing Integration Results



Manual Integration Results

RT: 2.48
Area: 1322
Amount: 2.195237
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:55:49
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

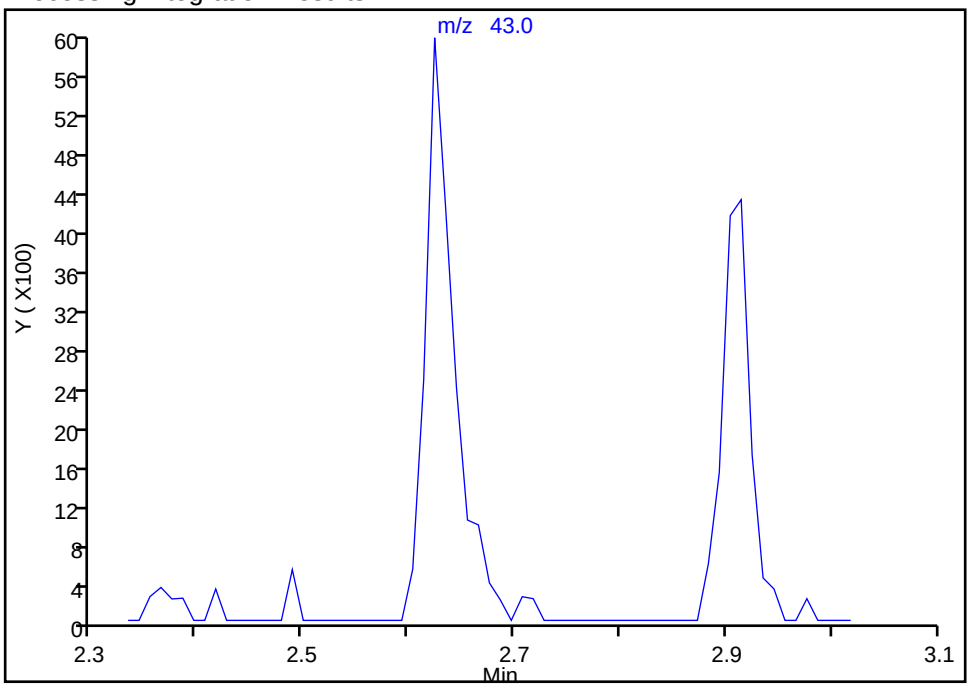
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

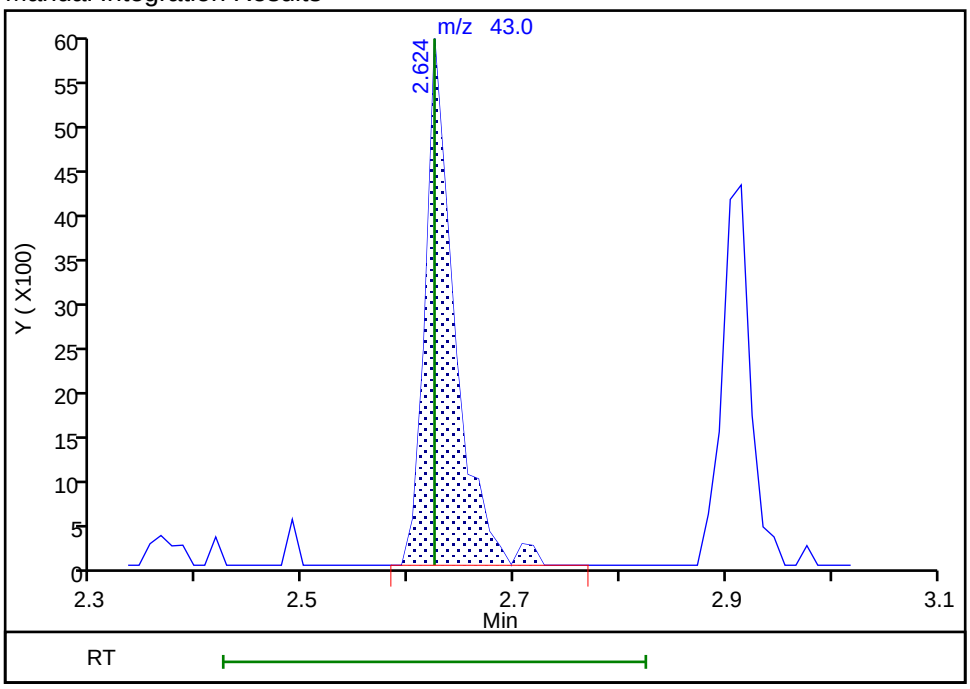
Not Detected
Expected RT: 2.62

Processing Integration Results



Manual Integration Results

RT: 2.62
Area: 11505
Amount: 2.254586
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:55:57
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

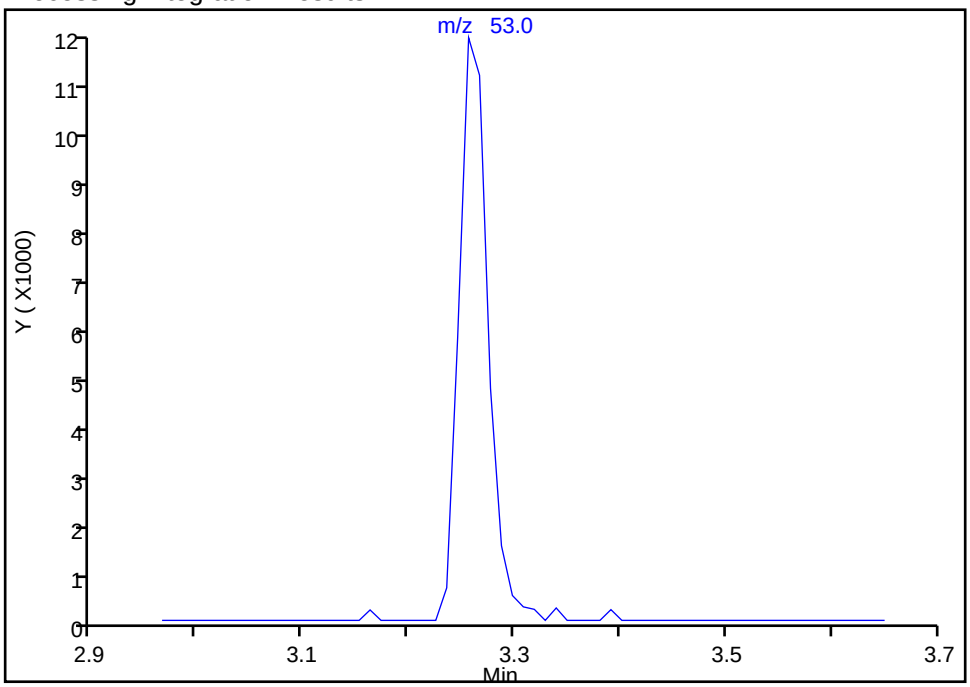
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

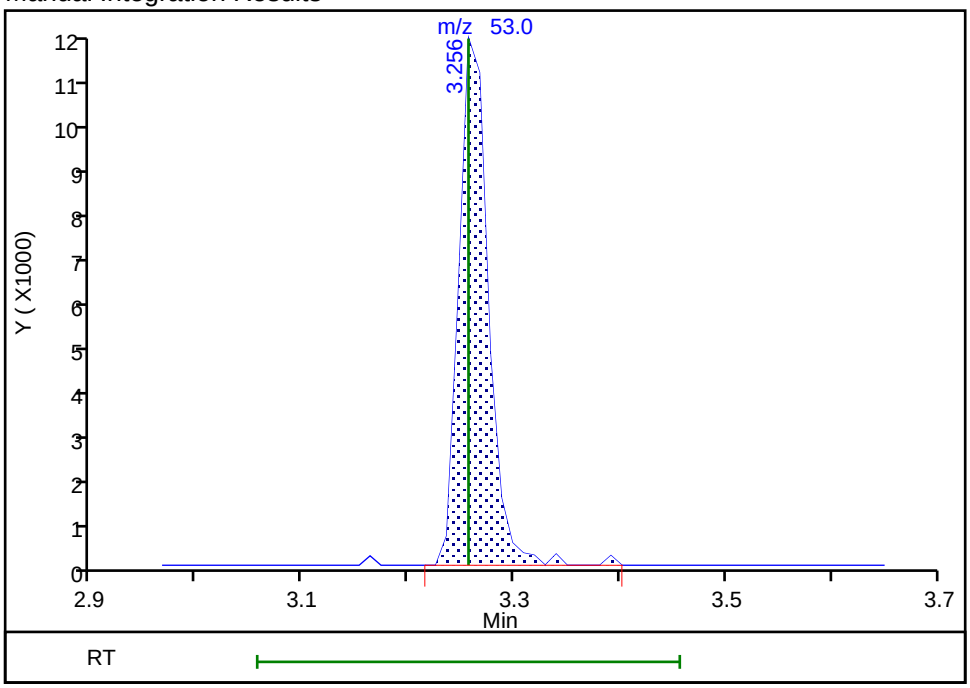
Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 22026
Amount: 3.798139
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:56:16
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

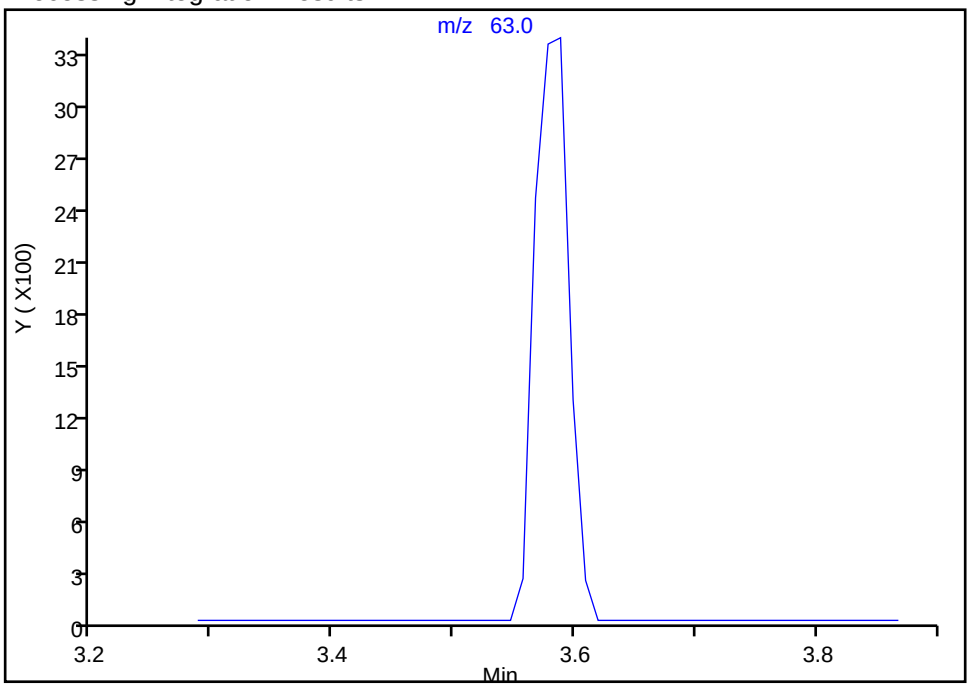
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

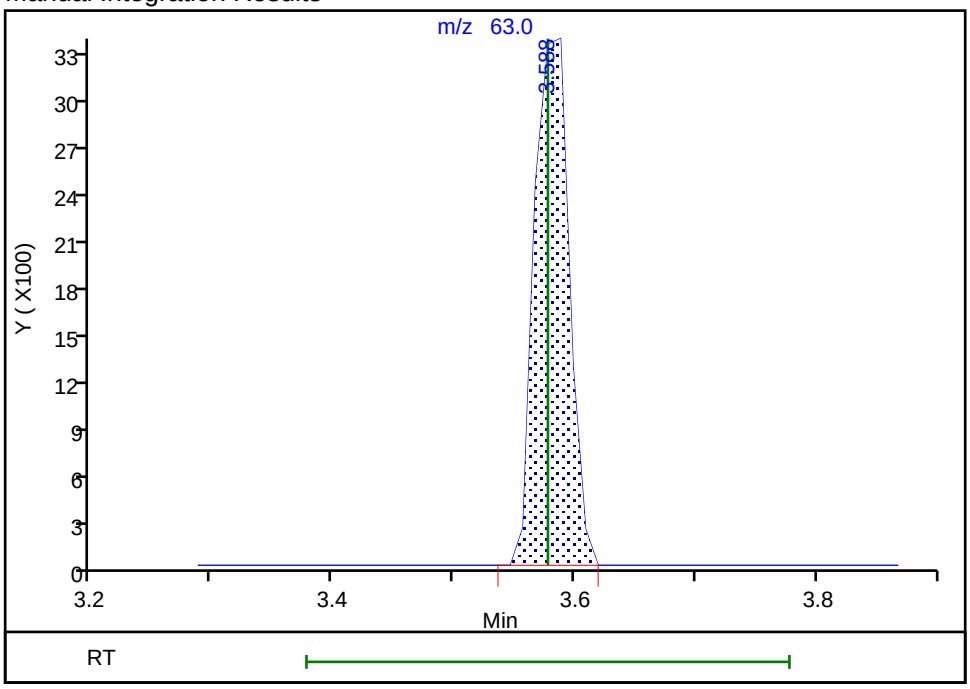
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.59
Area: 6804
Amount: 0.367413
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:56:23
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

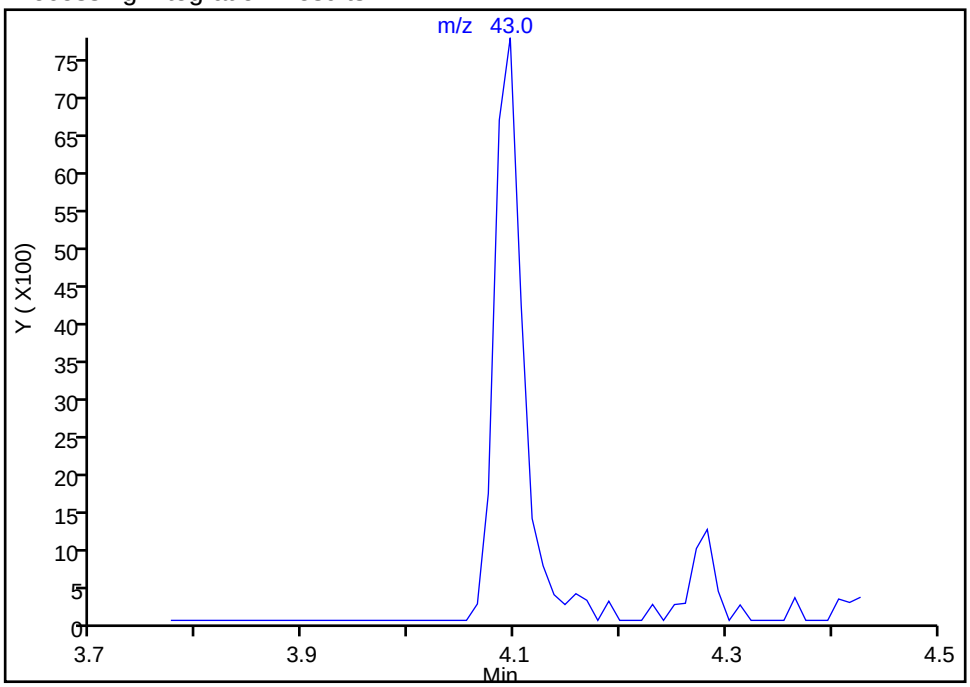
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

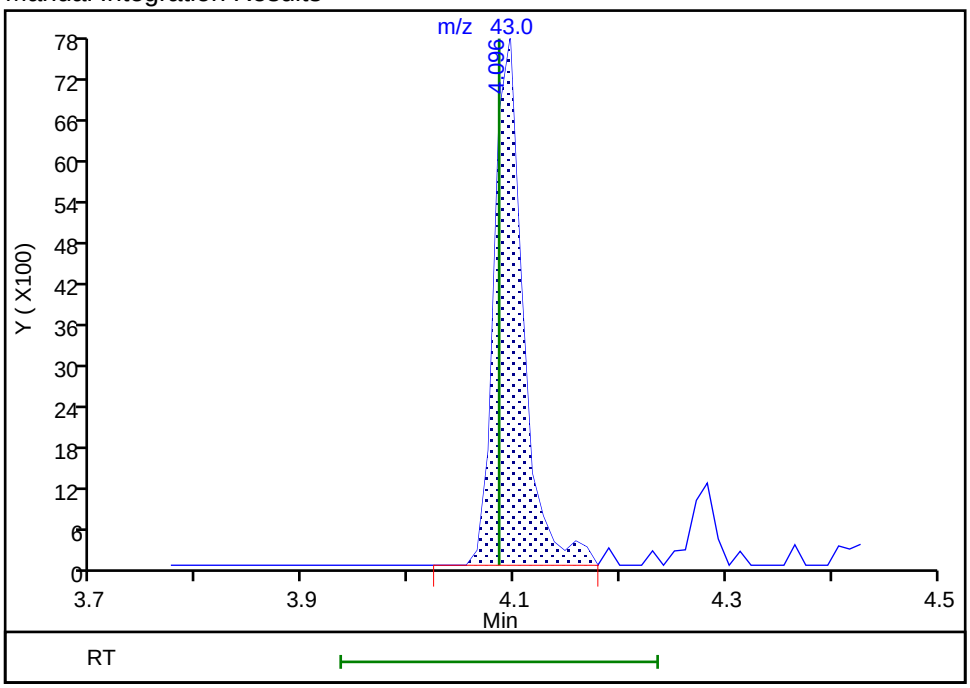
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 14809
Amount: 2.020809
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:56:35
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

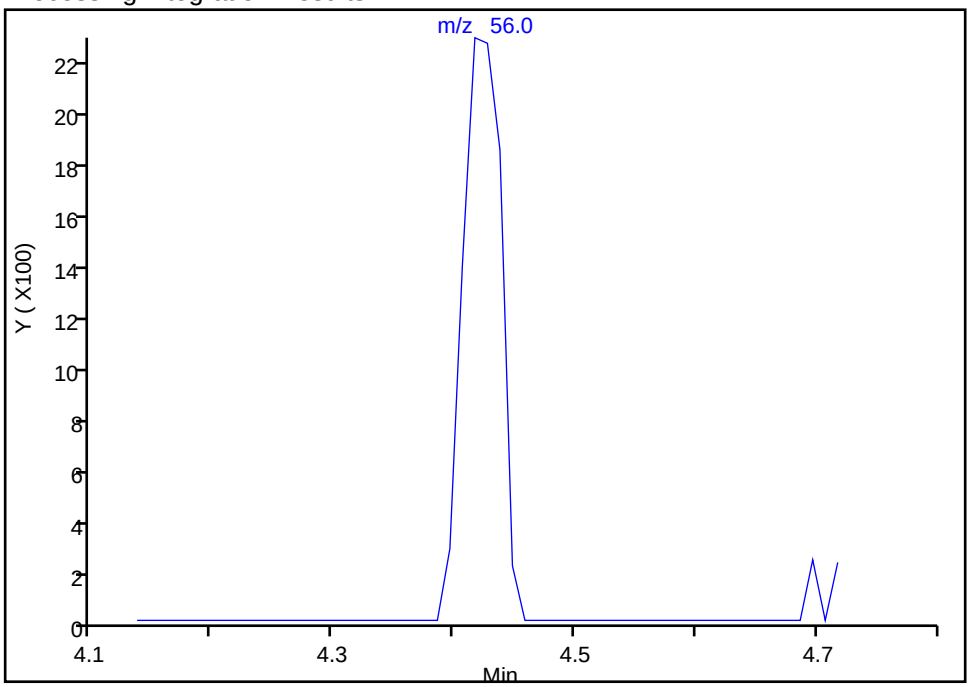
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

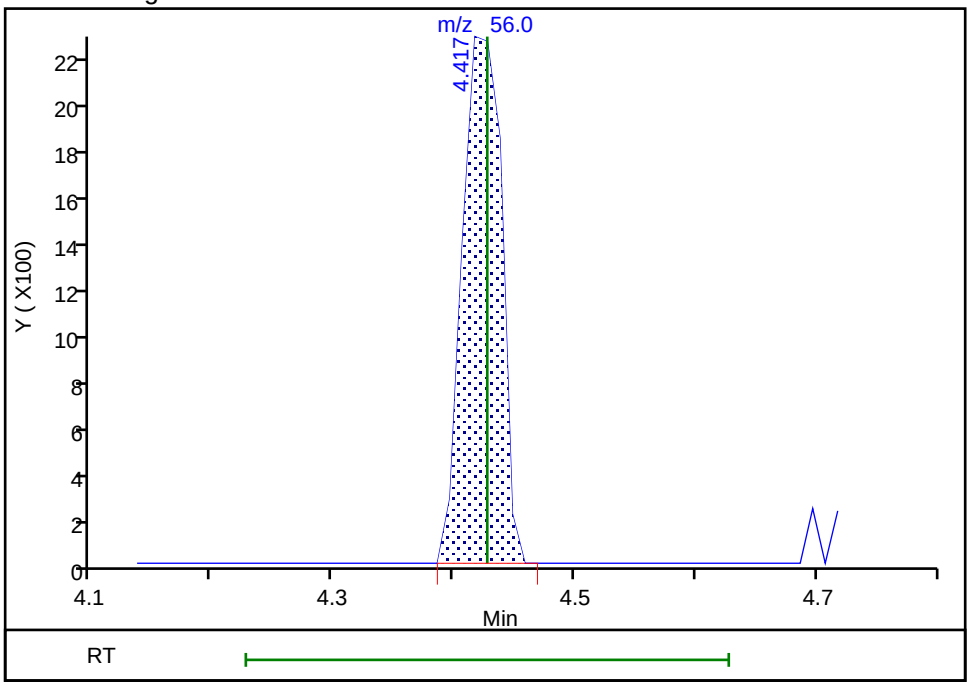
Not Detected
Expected RT: 4.43

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 4962
Amount: 0.306569
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:56:44
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

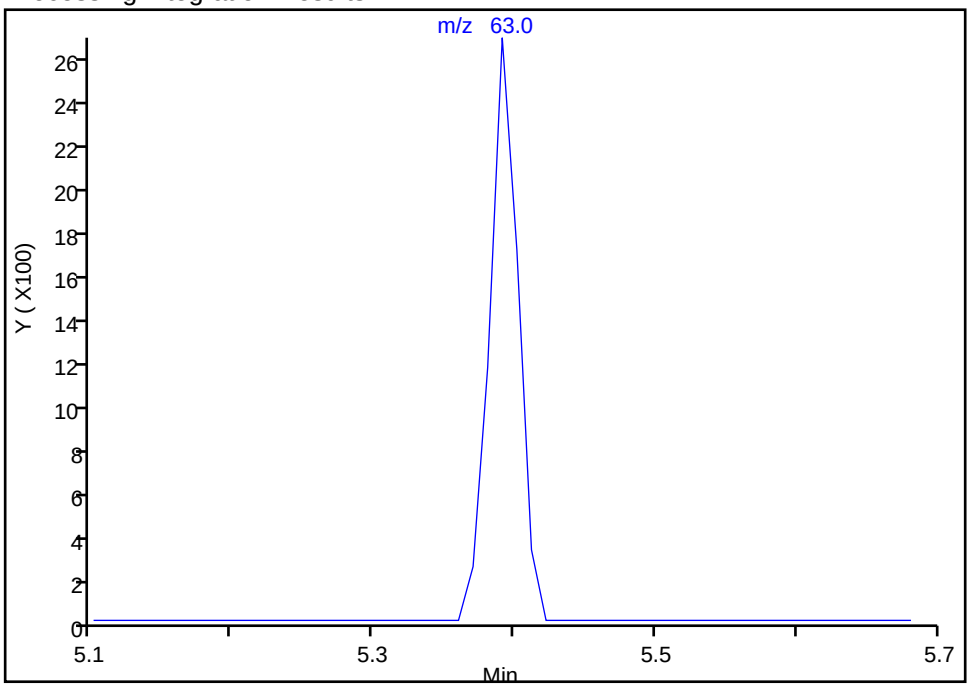
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

65 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

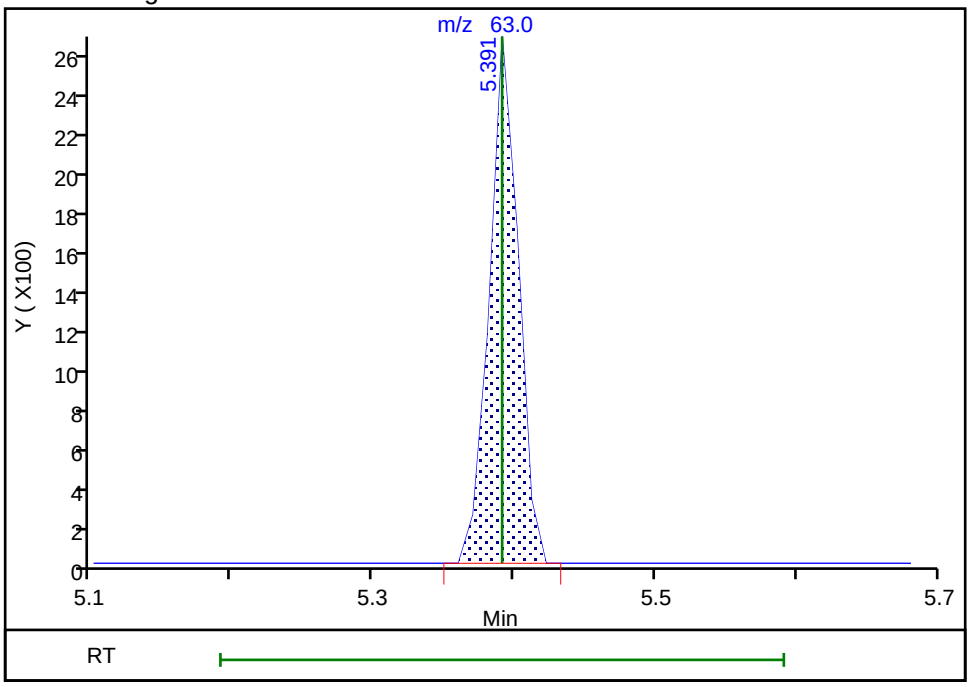
Not Detected
Expected RT: 5.39

Processing Integration Results



Manual Integration Results

RT: 5.39
Area: 3753
Amount: 0.399723
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:57:00
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

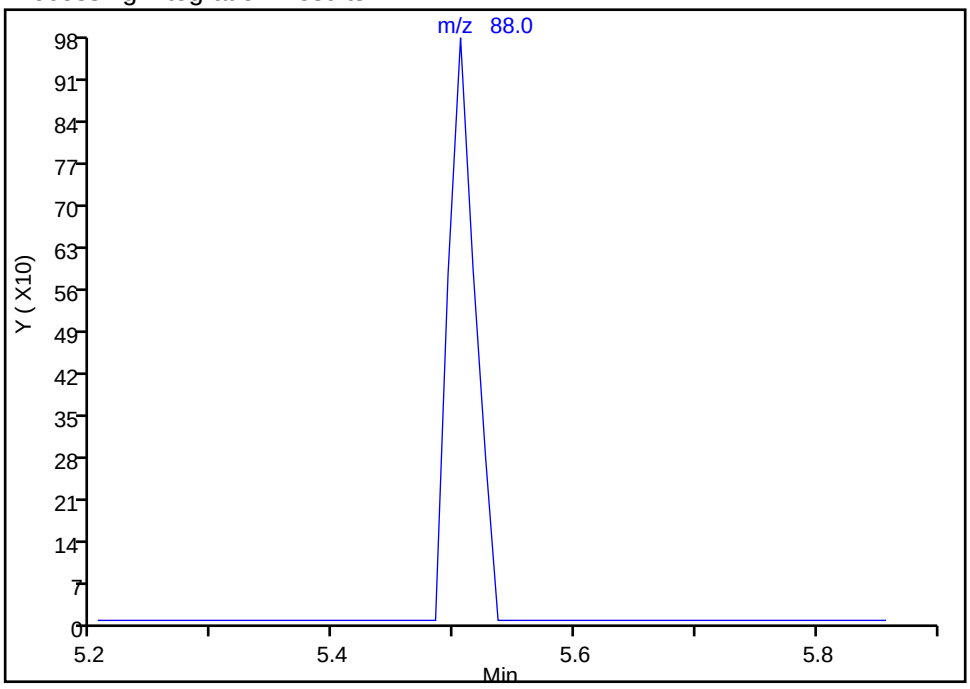
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

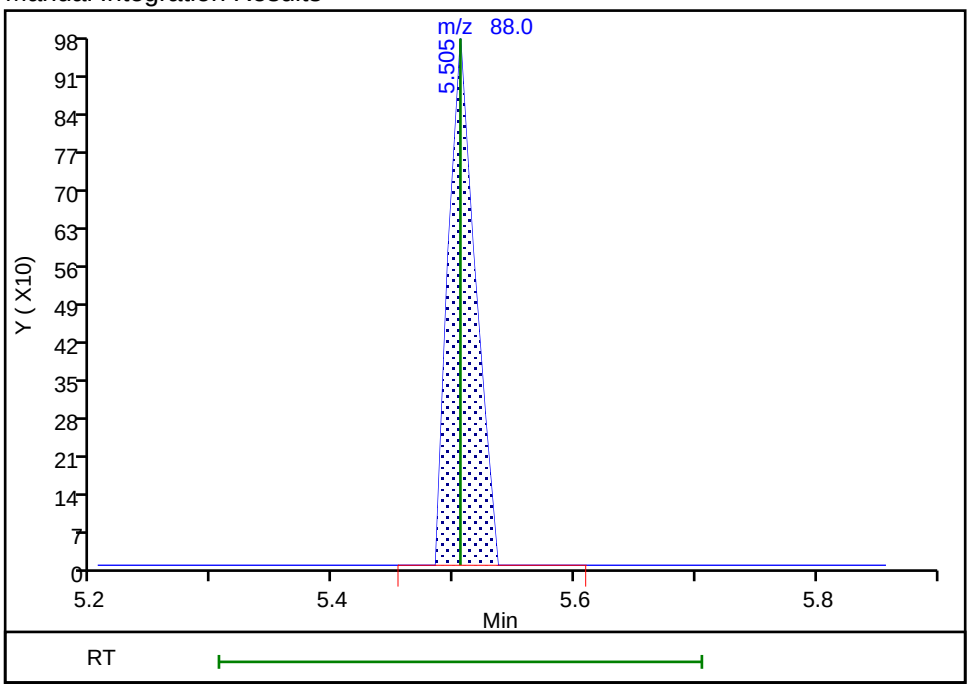
Not Detected
Expected RT: 5.51

Processing Integration Results



Manual Integration Results

RT: 5.51
Area: 1499
Amount: 7.590633
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:57:13
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

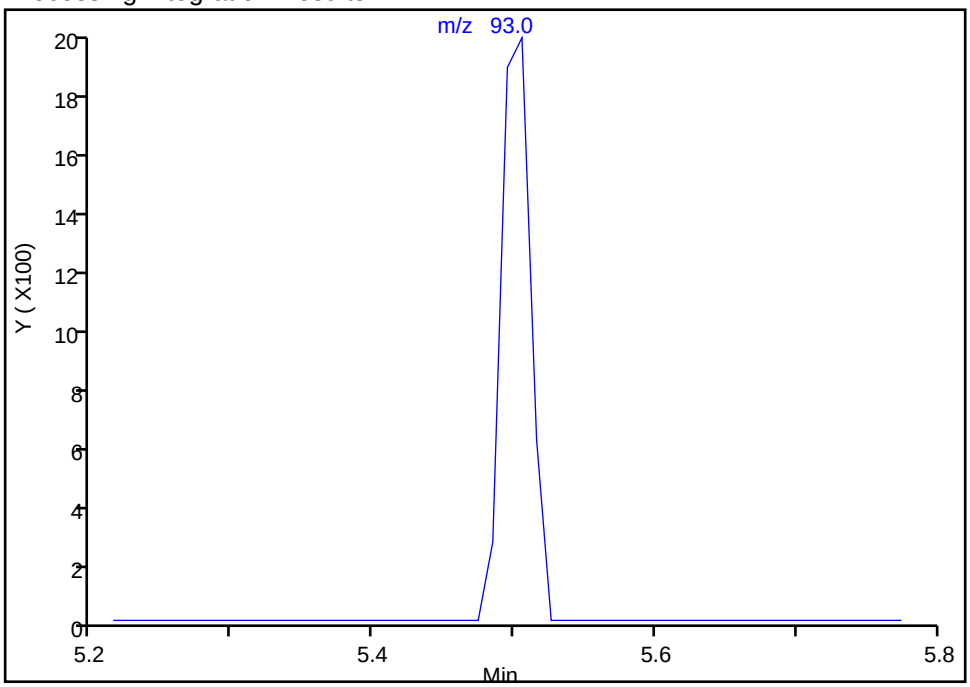
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

67 Dibromomethane, CAS: 74-95-3

Signal: 1

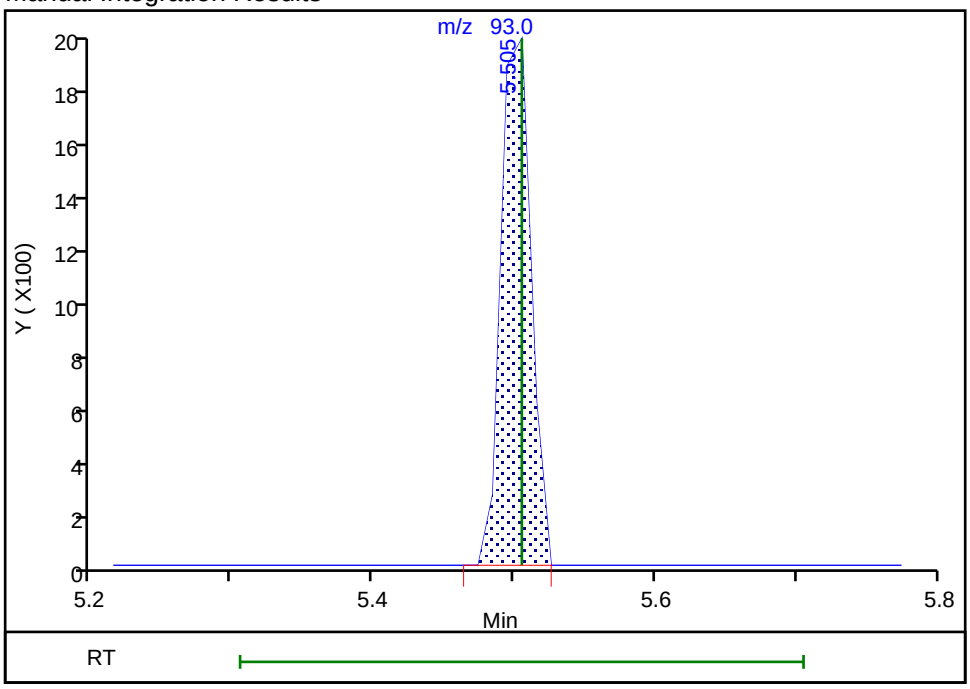
Not Detected
Expected RT: 5.51

Processing Integration Results



Manual Integration Results

RT: 5.51
Area: 2861
Amount: 0.364519
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:57:05
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

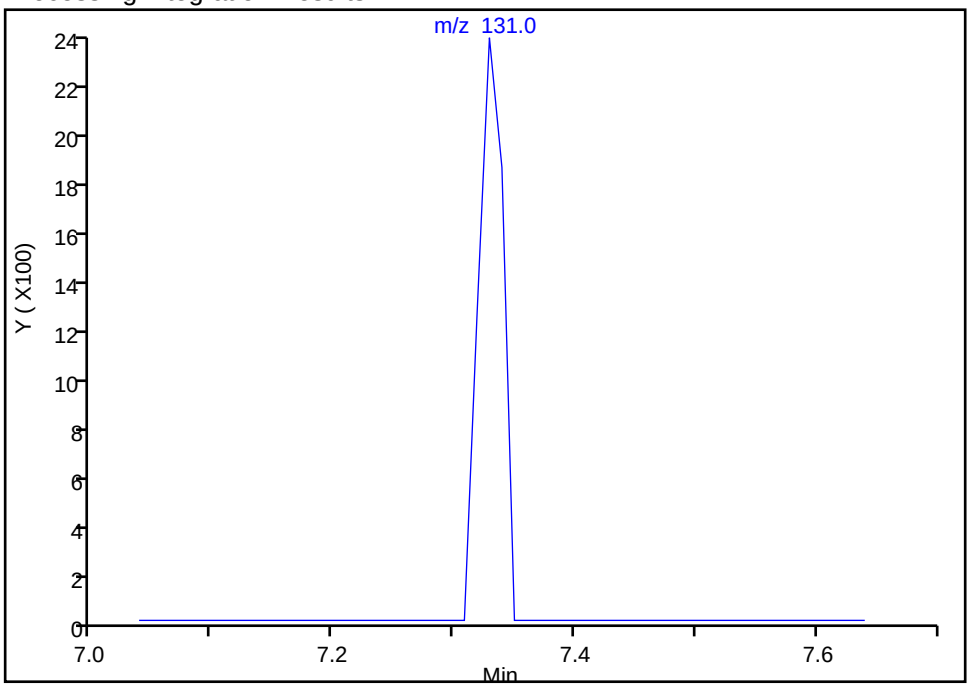
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

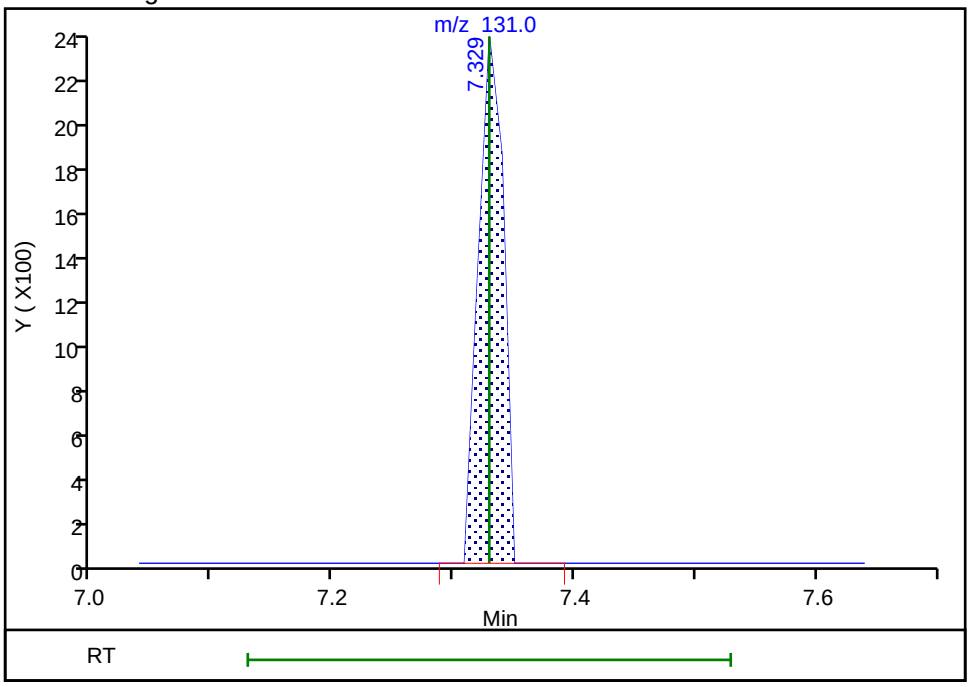
Not Detected
Expected RT: 7.33

Processing Integration Results



Manual Integration Results

RT: 7.33
Area: 3365
Amount: 0.340896
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:57:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

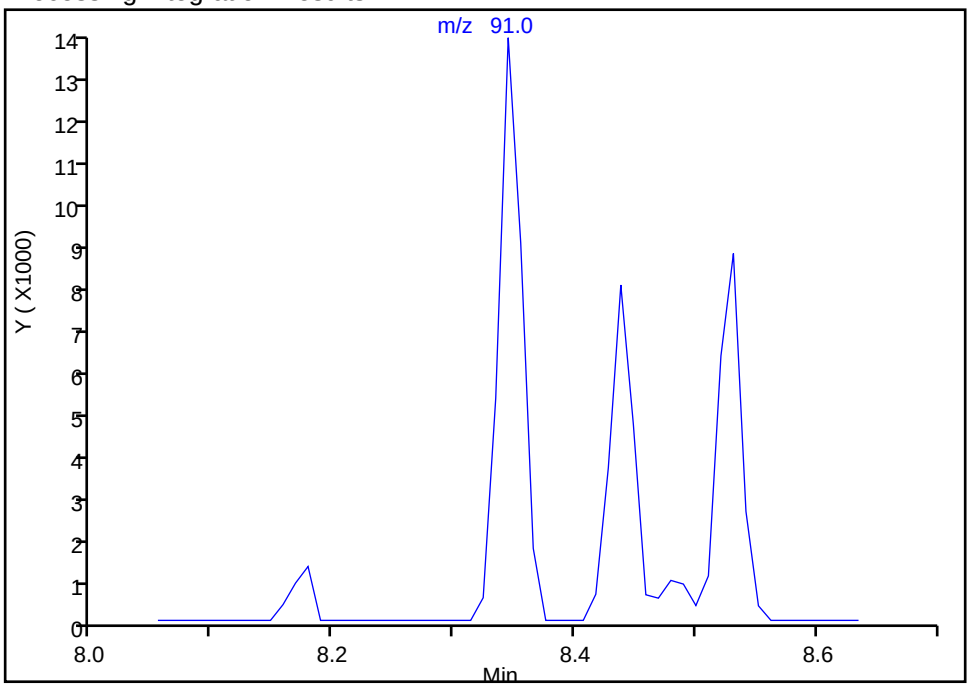
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

99 N-Propylbenzene, CAS: 103-65-1

Signal: 1

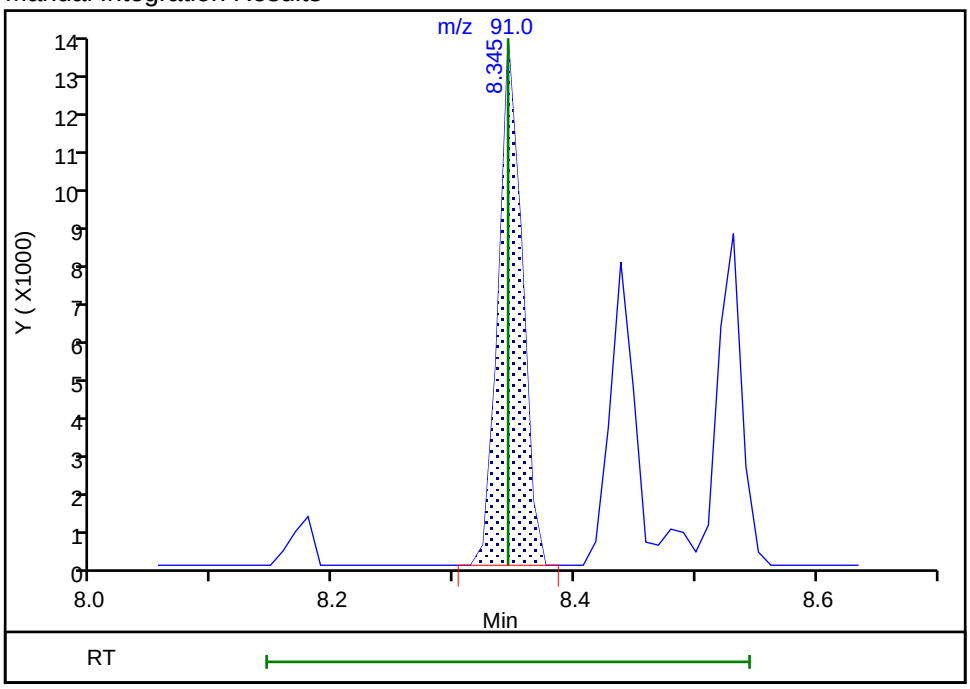
Not Detected
Expected RT: 8.34

Processing Integration Results



Manual Integration Results

RT: 8.34
Area: 18971
Amount: 0.354862
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:57:56
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

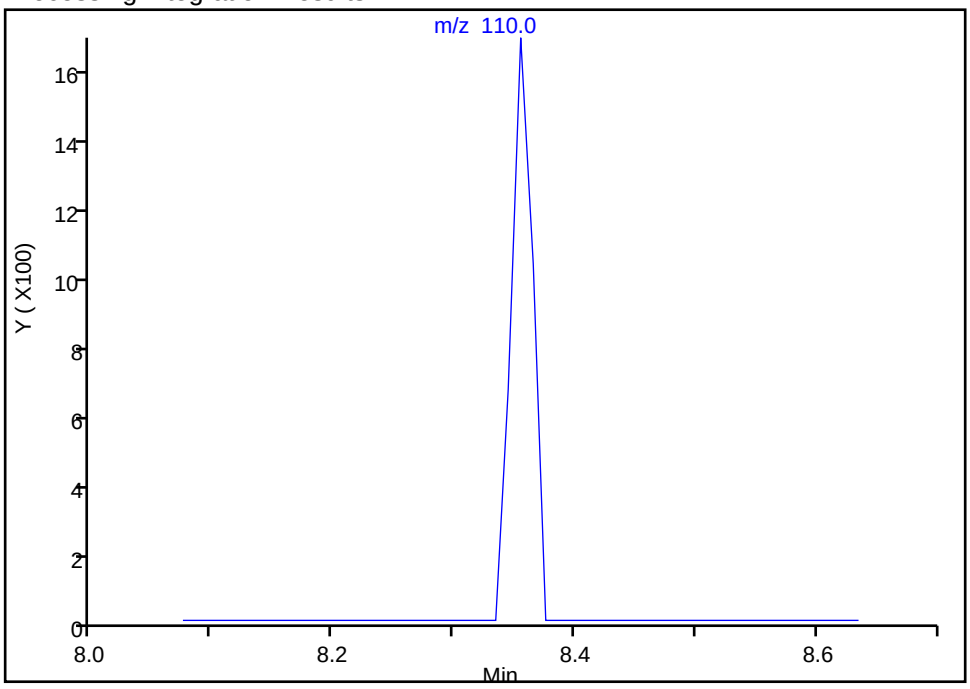
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

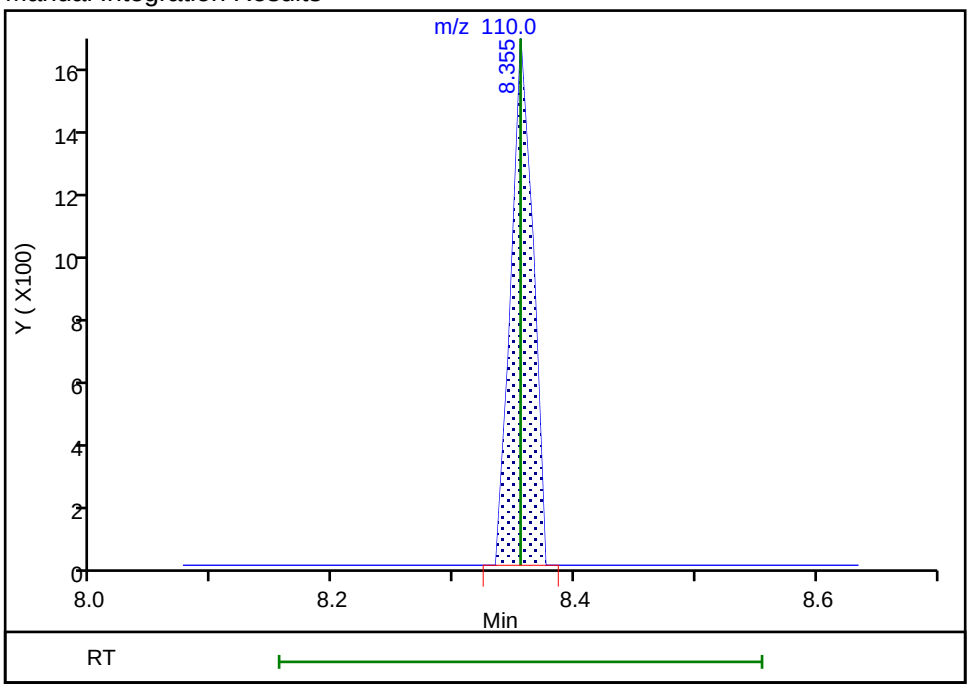
Not Detected
Expected RT: 8.35

Processing Integration Results



Manual Integration Results

RT: 8.36
Area: 2069
Amount: 0.407842
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:58:04
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

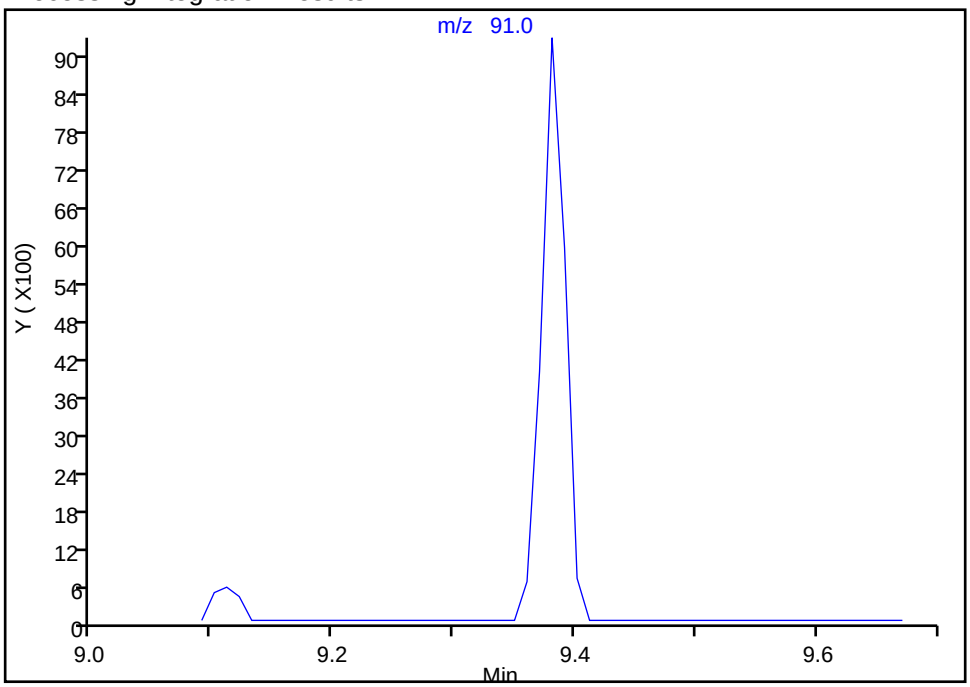
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

115 n-Butylbenzene, CAS: 104-51-8

Signal: 1

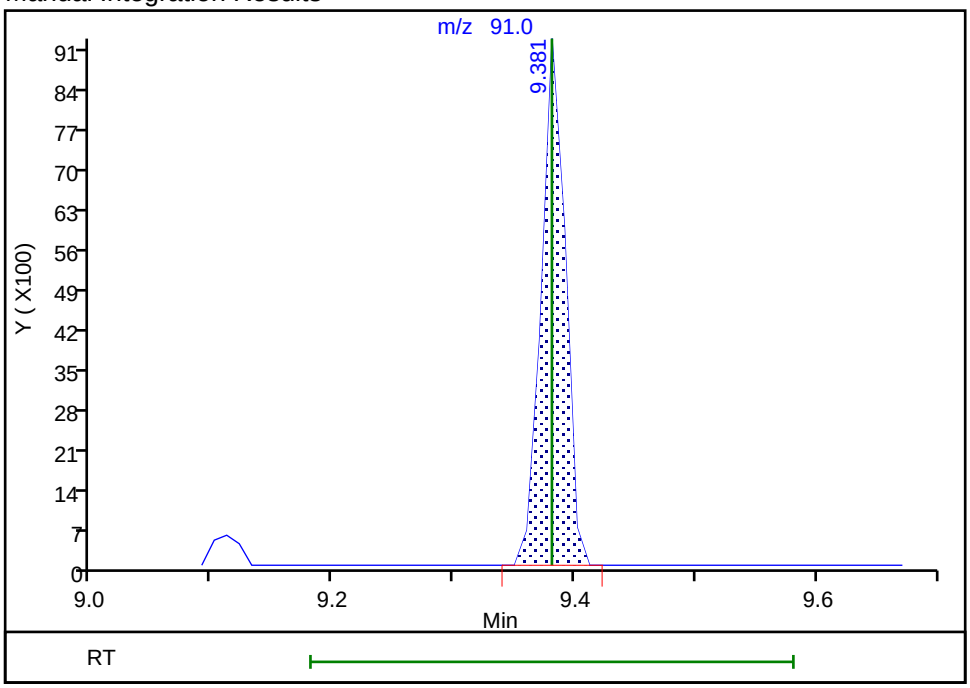
Not Detected
Expected RT: 9.38

Processing Integration Results



Manual Integration Results

RT: 9.38
Area: 12674
Amount: 0.329431
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:58:34
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

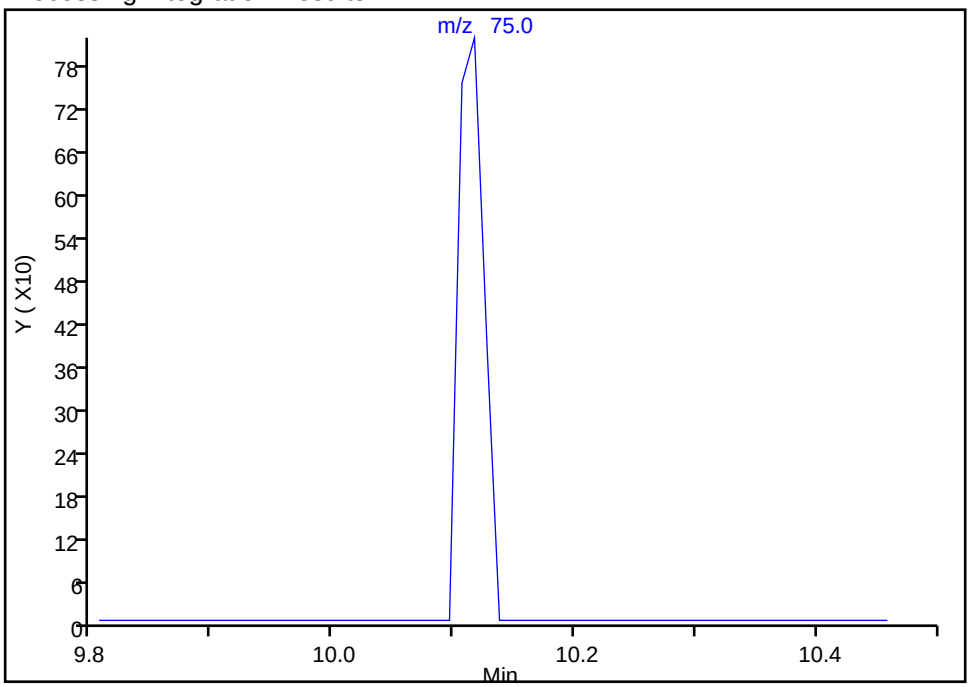
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2265.D
Injection Date: 18-Nov-2020 15:16:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

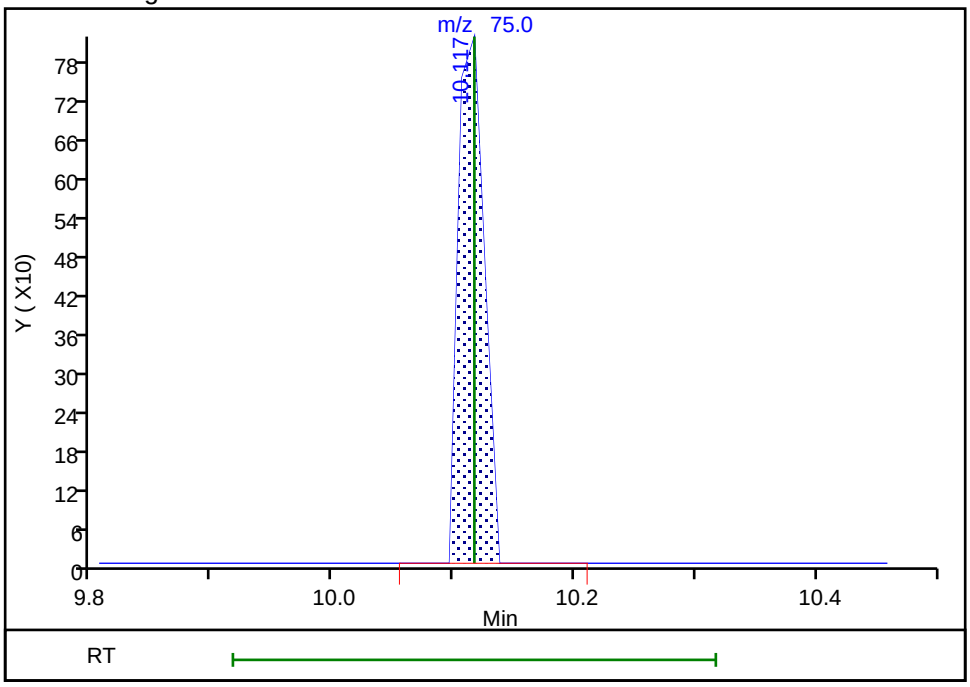
Not Detected
Expected RT: 10.12

Processing Integration Results



Manual Integration Results

RT: 10.12
Area: 1210
Amount: 0.374331
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:58:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2266.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Nov-2020 15:42:30 ALS Bottle#: 5 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 480-0095057-014
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:03:04 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 20:00:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	100	191892	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	363234	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	417695	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	344161	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	185125	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1028707	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	333774	25.0	25.2	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	12177	1.00	1.06	
12 Chloromethane	50	1.298	1.308	-0.010	98	13043	1.00	1.16	
13 Vinyl chloride	62	1.401	1.401	0.000	66	12663	1.00	1.13	
151 Butadiene	54	1.412	1.412	0.000	92	12367	1.00	1.20	
14 Bromomethane	94	1.681	1.692	-0.011	94	12107	1.00	1.18	
15 Chloroethane	64	1.774	1.774	0.000	96	9228	1.00	1.18	
16 Dichlorofluoromethane	67	2.002	2.002	0.000	93	19792	1.00	1.09	
17 Trichlorofluoromethane	101	2.002	2.002	0.000	80	19616	1.00	1.06	
18 Ethyl ether	59	2.292	2.293	-0.001	92	9571	1.00	1.07	
20 Acrolein	56	2.469	2.469	0.000	0	2856	5.00	4.87	M
22 1,1-Dichloroethene	96	2.510	2.500	0.010	96	10455	1.00	1.04	
21 112TCTFE	101	2.500	2.500	0.000	79	13073	1.00	1.16	
23 Acetone	43	2.624	2.624	0.000	98	29099	5.00	5.86	a
25 Iodomethane	142	2.655	2.655	0.000	98	20063	1.00	1.01	
26 Carbon disulfide	76	2.697	2.697	0.000	99	33871	1.00	1.02	
28 3-Chloro-1-propene	41	2.862	2.863	-0.001	81	13582	1.00	1.03	
27 Methyl acetate	43	2.904	2.904	0.000	97	23748	2.00	2.27	
30 Methylene Chloride	84	2.997	2.997	0.000	91	14477	1.00	0.9374	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	84	25319	10.0	10.3	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	99	34044	1.00	1.04	
34 trans-1,2-Dichloroethene	96	3.204	3.205	-0.001	86	11611	1.00	1.02	
33 Acrylonitrile	53	3.256	3.256	0.000	0	60722	10.0	10.8	M
35 Hexane	57	3.381	3.381	0.000	90	15194	1.00	1.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.588	3.578	0.010	95	19316	1.00	1.07	
37 Vinyl acetate	43	3.629	3.629	0.000	97	43668	2.00	1.98	
44 2,2-Dichloropropane	77	4.023	4.034	-0.011	88	11304	1.00	0.99	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	79	13983	1.00	1.09	
43 2-Butanone (MEK)	43	4.096	4.085	0.011	100	38917	5.00	5.45	
48 Chlorobromomethane	128	4.261	4.262	-0.001	84	7828	1.00	1.08	
49 Tetrahydrofuran	42	4.282	4.272	0.010	82	14373	2.00	2.60	
50 Chloroform	83	4.324	4.324	0.000	92	22205	1.00	1.09	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	95	16345	1.00	1.05	
52 Cyclohexane	56	4.427	4.427	0.000	93	16750	1.00	1.06	
55 Carbon tetrachloride	117	4.531	4.531	0.000	95	13271	1.00	0.99	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	93	15097	1.00	1.08	
57 Benzene	78	4.707	4.707	0.000	92	41576	1.00	1.04	
53 Isobutyl alcohol	43	4.717	4.718	-0.001	64	18620	25.0	24.3	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	96	17587	1.00	1.15	
59 n-Heptane	43	4.842	4.842	0.000	81	13799	1.00	1.06	
62 Trichloroethene	95	5.205	5.194	0.010	96	11728	1.00	1.02	
64 Methylcyclohexane	83	5.298	5.298	0.000	86	18892	1.00	1.05	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	93	9450	1.00	1.03	
67 Dibromomethane	93	5.505	5.505	0.000	92	7948	1.00	1.04	
66 1,4-Dioxane	88	5.505	5.505	0.000	41	3966	20.0	20.1	
68 Dichlorobromomethane	83	5.619	5.619	0.000	97	13985	1.00	1.08	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	92	6091	1.00	0.9717	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	93	14163	1.00	1.00	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	97	66566	5.00	5.10	
74 Toluene	92	6.158	6.158	0.000	99	25796	1.00	1.06	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	88	12102	1.00	0.9658	
75 Ethyl methacrylate	69	6.386	6.386	0.000	88	11104	1.00	0.9182	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	91	7992	1.00	1.05	
81 Tetrachloroethene	166	6.572	6.573	-0.001	92	12414	1.00	1.07	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	87	16059	1.00	1.06	
80 2-Hexanone	43	6.676	6.676	0.000	98	43614	5.00	4.93	
83 Chlorodibromomethane	129	6.821	6.821	0.000	88	9544	1.00	0.9604	
84 Ethylene Dibromide	107	6.904	6.904	0.000	96	9870	1.00	0.9799	
87 Chlorobenzene	112	7.267	7.256	0.011	93	28896	1.00	1.01	
88 Ethylbenzene	91	7.319	7.319	0.000	98	44876	1.00	1.00	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	82	9569	1.00	0.9703	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	16824	1.00	0.9616	
91 o-Xylene	106	7.733	7.733	0.000	97	16787	1.00	0.9498	
92 Styrene	104	7.754	7.754	0.000	94	23811	1.00	0.9017	
95 Bromoform	173	7.951	7.951	0.000	91	6363	1.00	0.9284	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	44264	1.00	0.9100	
101 Bromobenzene	156	8.303	8.303	0.000	90	11915	1.00	0.9170	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	94	14339	1.00	0.9217	
99 N-Propylbenzene	91	8.345	8.345	-0.001	97	54449	1.00	0.9395	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	89	4827	1.00	0.8777	
98 trans-1,4-Dichloro-2-butene	53	8.365	8.355	0.010	69	3008	1.00	0.7667	
103 2-Chlorotoluene	126	8.438	8.438	0.000	97	12554	1.00	1.01	
102 1,3,5-Trimethylbenzene	105	8.479	8.490	-0.011	95	37461	1.00	0.9187	
105 4-Chlorotoluene	126	8.531	8.531	0.000	97	11042	1.00	0.8811	
106 tert-Butylbenzene	134	8.749	8.749	0.000	93	7544	1.00	0.8297	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	94	37205	1.00	0.8960	

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	8.925	8.925	0.000	95	46789	1.00	0.9014	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	96	40420	1.00	0.8924	
111 1,3-Dichlorobenzene	146	9.049	9.060	-0.011	97	22905	1.00	0.9040	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	95	25116	1.00	0.9672	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	40223	1.00	0.9645	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	97	26061	1.00	1.00	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	76	3337	1.00	0.9523	
119 1,2,4-Trichlorobenzene	180	10.769	10.770	-0.001	94	19769	1.00	0.9798	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	95	8546	1.00	0.9583	
121 Naphthalene	128	10.977	10.977	0.000	96	54118	1.00	0.8756	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	94	17379	1.00	0.8710	
S 126 1,3-Dichloropropene, Total	1				0			1.97	
S 125 1,2-Dichloroethene, Total	1				0			2.11	
S 123 Total BTEX	1				0			5.01	
S 124 Xylenes, Total	1				0			1.91	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00198	Amount Added:	1.00	Units: uL	
GAS CORP mix_00427	Amount Added:	1.00	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

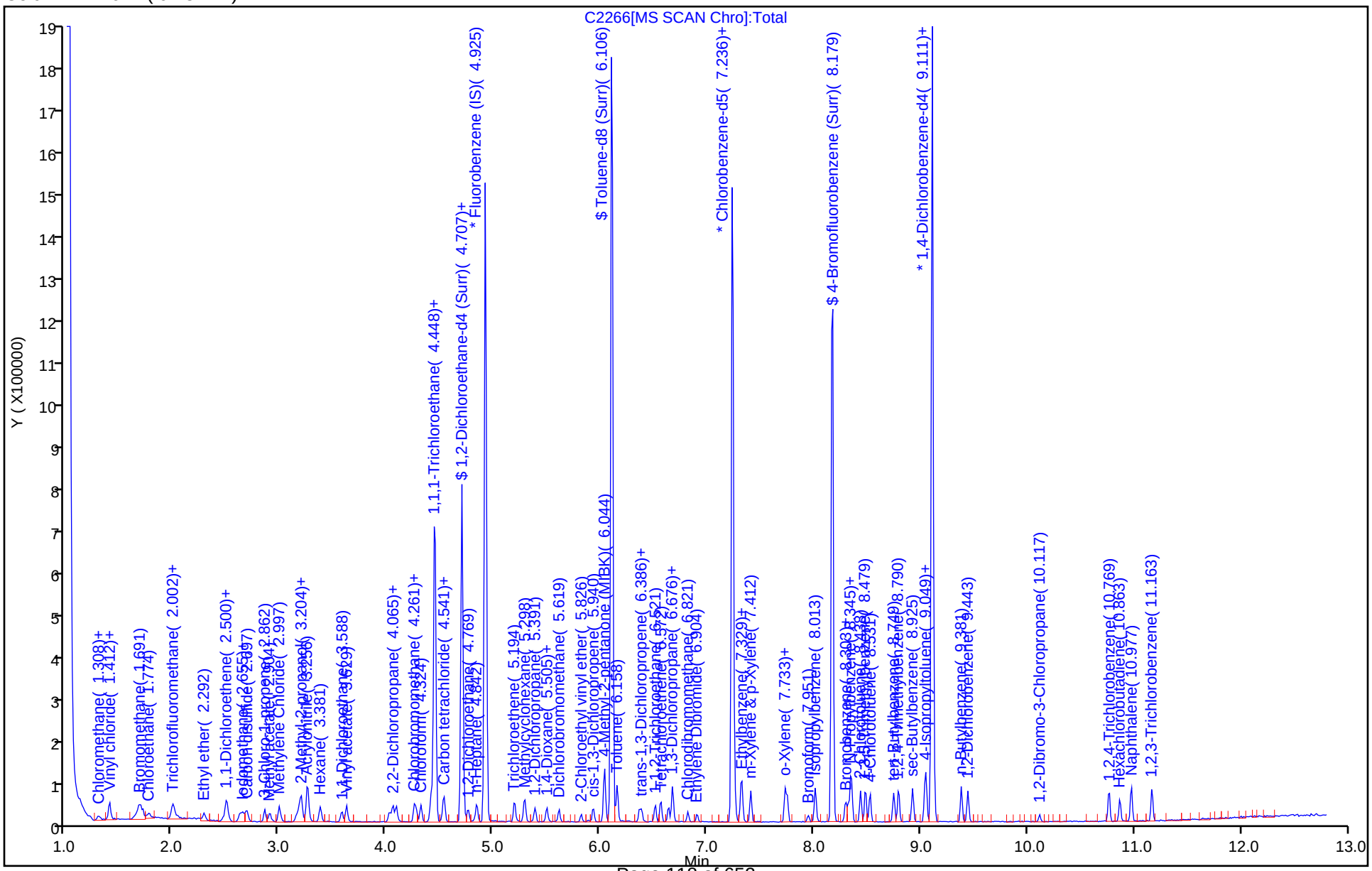
Report Date: 19-Nov-2020 12:03:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2266.D

Injection Date:	18-Nov-2020 15:42:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

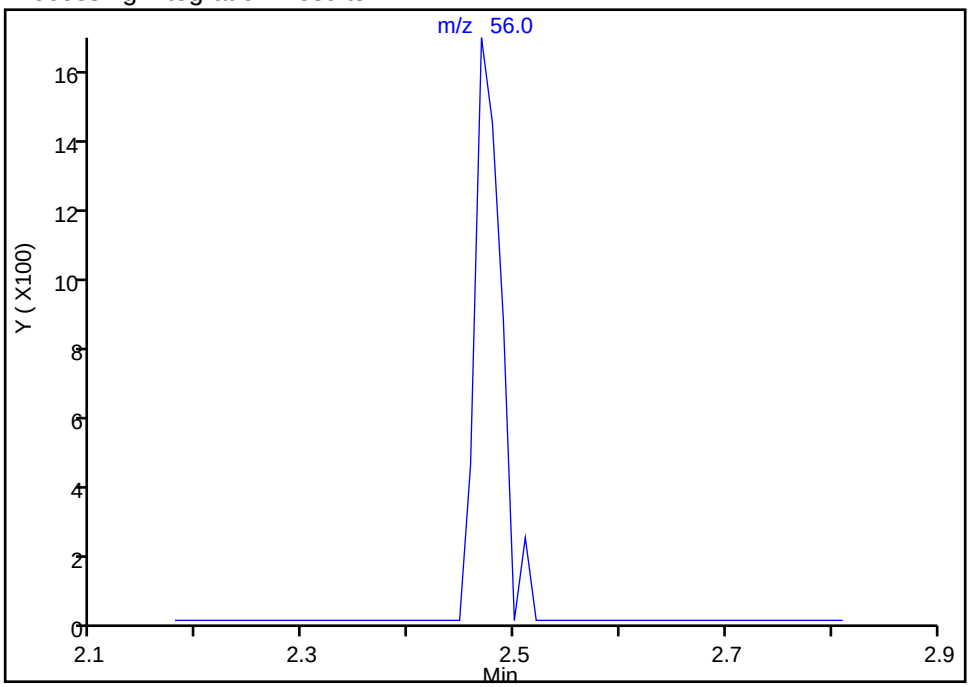
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2266.D
Injection Date: 18-Nov-2020 15:42:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 5 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

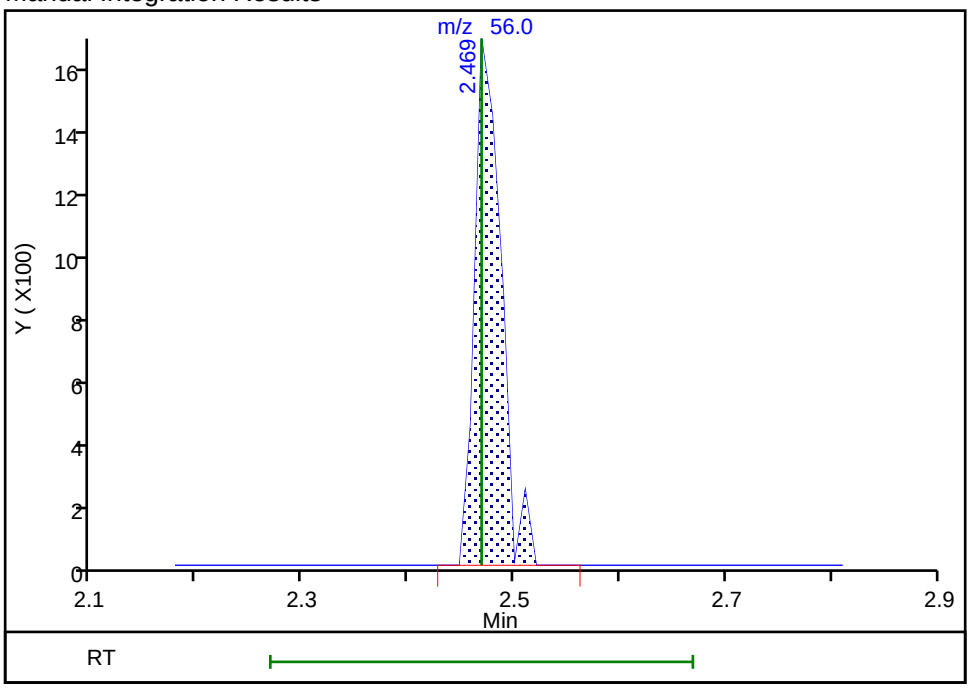
Not Detected
Expected RT: 2.47

Processing Integration Results



Manual Integration Results

RT: 2.47
Area: 2856
Amount: 4.869987
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:01:44
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

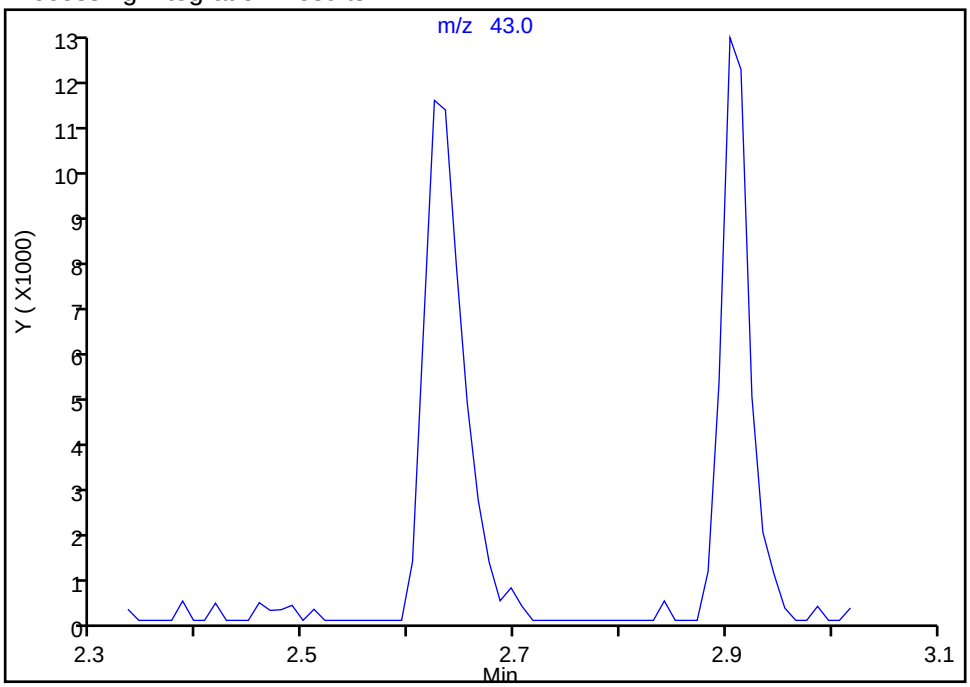
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2266.D
Injection Date: 18-Nov-2020 15:42:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 5 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

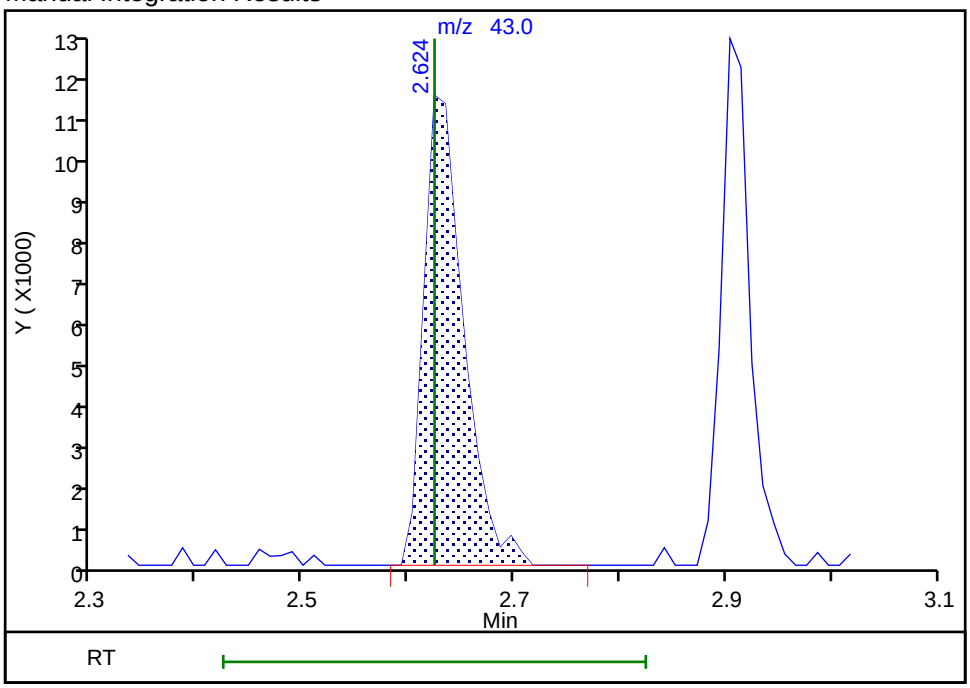
Not Detected
Expected RT: 2.62

Processing Integration Results



Manual Integration Results

RT: 2.62
Area: 29099
Amount: 5.855686
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:01:51
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

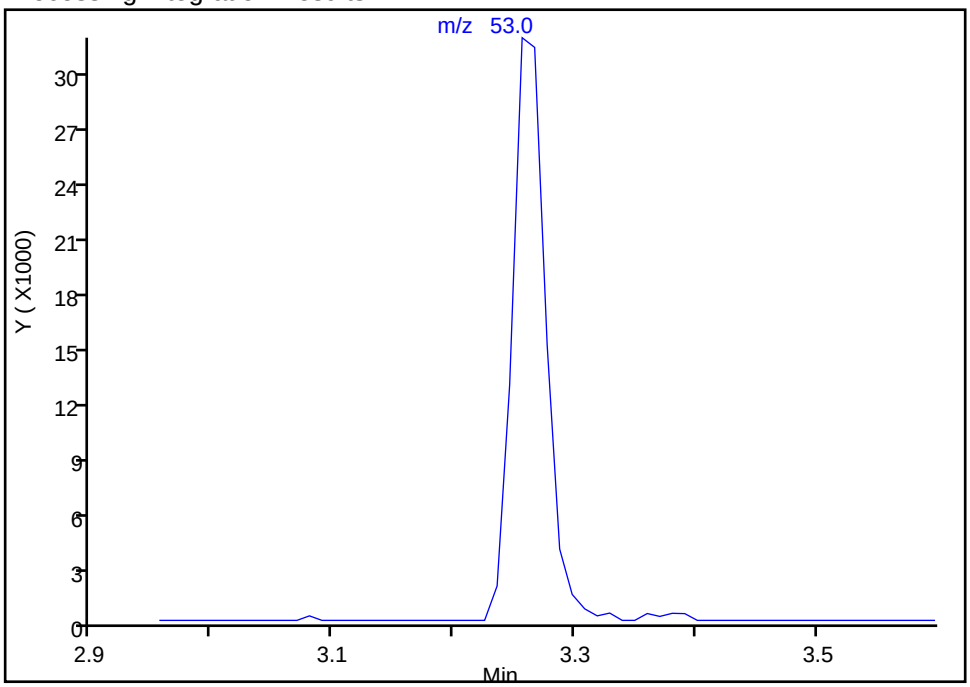
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2266.D
Injection Date: 18-Nov-2020 15:42:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 5 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

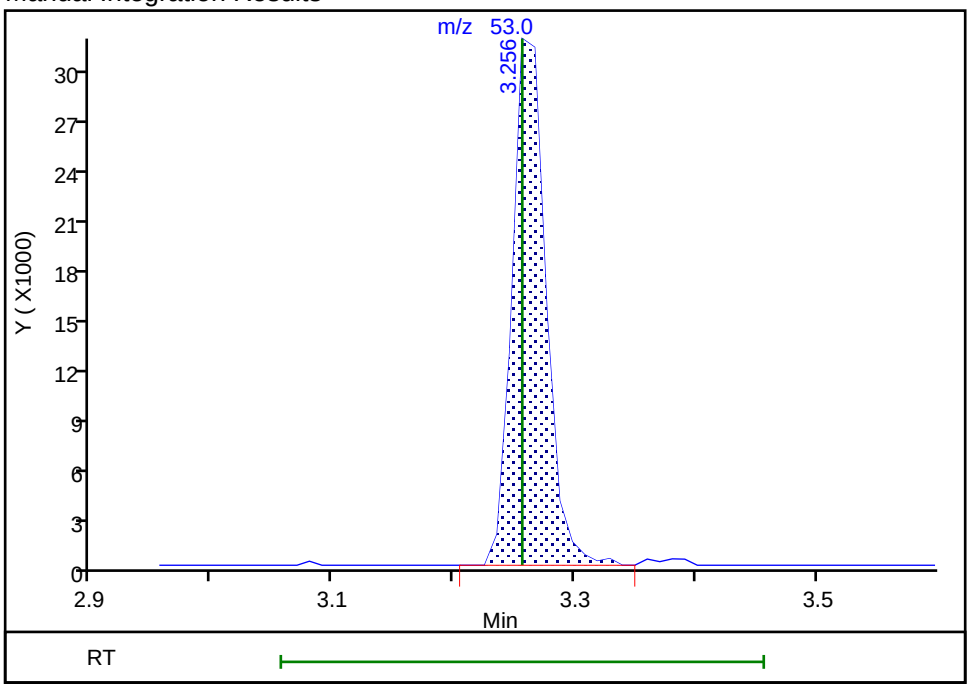
Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 60722
Amount: 10.752286
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:02:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2267.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Nov-2020 16:07:30 ALS Bottle#: 6 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 2
Misc. Info.: 480-0095057-015
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:03:19 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 20:09:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	190166	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	360621	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	403685	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.459	4.448	0.011	93	342175	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	184668	25.0	25.8	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1007987	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	324956	25.0	24.7	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	94	20623	2.00	1.82	
12 Chloromethane	50	1.308	1.308	0.000	99	22466	2.00	2.02	
13 Vinyl chloride	62	1.401	1.401	0.000	76	21487	2.00	1.94	
151 Butadiene	54	1.412	1.412	0.000	89	19485	2.00	1.90	
14 Bromomethane	94	1.692	1.692	0.000	93	22673	2.00	2.23	
15 Chloroethane	64	1.774	1.774	0.000	99	14444	2.00	1.87	
16 Dichlorofluoromethane	67	2.002	2.002	0.000	94	35496	2.00	1.97	
17 Trichlorofluoromethane	101	2.002	2.002	0.000	79	33840	2.00	1.84	
18 Ethyl ether	59	2.293	2.293	0.000	91	18326	2.00	2.07	
20 Acrolein	56	2.479	2.469	0.010	0	6341	10.0	10.9	M
22 1,1-Dichloroethene	96	2.500	2.500	0.000	97	19775	2.00	1.98	
21 112TCTFE	101	2.500	2.500	0.000	91	20496	2.00	1.84	
23 Acetone	43	2.624	2.624	0.000	98	52091	10.0	10.6	a
25 Iodomethane	142	2.655	2.655	0.000	98	40054	2.00	2.04	
26 Carbon disulfide	76	2.697	2.697	0.000	99	63760	2.00	1.95	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	84	25427	2.00	1.94	
27 Methyl acetate	43	2.914	2.904	0.010	97	42973	4.00	4.14	
30 Methylene Chloride	84	2.997	2.997	0.000	82	26864	2.00	2.09	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	97	48073	20.0	19.7	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	98	66078	2.00	2.04	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	98	20529	2.00	1.82	
33 Acrylonitrile	53	3.256	3.256	0.000	99	115835	20.0	20.7	a
35 Hexane	57	3.381	3.381	0.000	90	25584	2.00	1.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.588	3.578	0.010	96	34484	2.00	1.93	
37 Vinyl acetate	43	3.629	3.629	0.000	97	83590	4.00	3.83	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	89	20717	2.00	1.83	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	76	24156	2.00	1.90	
43 2-Butanone (MEK)	43	4.096	4.085	0.011	99	68456	10.0	9.68	
48 Chlorobromomethane	128	4.262	4.262	0.000	88	14685	2.00	2.04	
49 Tetrahydrofuran	42	4.282	4.272	0.010	83	22524	4.00	4.11	
50 Chloroform	83	4.324	4.324	0.000	94	40583	2.00	2.01	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	97	28762	2.00	1.87	
52 Cyclohexane	56	4.427	4.427	0.000	89	30344	2.00	1.94	
55 Carbon tetrachloride	117	4.531	4.531	0.000	95	23591	2.00	1.78	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	93	25808	2.00	1.86	
57 Benzene	78	4.707	4.707	0.000	94	77637	2.00	1.96	
53 Isobutyl alcohol	43	4.718	4.718	0.000	93	38857	50.0	51.3	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	98	30622	2.00	2.02	
59 n-Heptane	43	4.842	4.842	0.000	79	22968	2.00	1.77	
62 Trichloroethene	95	5.194	5.194	0.000	97	22032	2.00	1.94	
64 Methylcyclohexane	83	5.298	5.298	0.000	87	32724	2.00	1.83	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	89	16448	2.00	1.82	
66 1,4-Dioxane	88	5.505	5.505	0.000	42	8016	40.0	40.9	
67 Dibromomethane	93	5.505	5.505	0.000	92	15404	2.00	2.03	
68 Dichlorobromomethane	83	5.619	5.619	0.000	94	23330	2.00	1.82	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	93	11149	2.00	1.79	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	93	25007	2.00	1.79	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	95	124969	10.0	9.64	
74 Toluene	92	6.158	6.158	0.000	98	46831	2.00	1.93	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	91	21902	2.00	1.76	
75 Ethyl methacrylate	69	6.386	6.386	0.000	85	22362	2.00	1.86	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	93	14105	2.00	1.86	
81 Tetrachloroethene	166	6.573	6.573	0.000	94	21565	2.00	1.88	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	88	28876	2.00	1.93	
80 2-Hexanone	43	6.676	6.676	0.000	94	80602	10.0	9.17	
83 Chlorodibromomethane	129	6.821	6.821	0.000	88	18351	2.00	1.86	
84 Ethylene Dibromide	107	6.904	6.904	0.000	98	17236	2.00	1.72	
87 Chlorobenzene	112	7.267	7.256	0.011	97	54321	2.00	1.92	
88 Ethylbenzene	91	7.319	7.319	0.000	98	87071	2.00	1.95	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	89	19223	2.00	1.96	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	33403	2.00	1.92	
91 o-Xylene	106	7.733	7.733	0.000	95	34542	2.00	1.97	
92 Styrene	104	7.754	7.754	0.000	93	45570	2.00	1.74	
95 Bromoform	173	7.951	7.951	0.000	95	11551	2.00	1.70	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	85285	2.00	1.81	
101 Bromobenzene	156	8.303	8.303	0.000	89	23010	2.00	1.83	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	96	28994	2.00	1.93	
99 N-Propylbenzene	91	8.345	8.345	0.000	99	98925	2.00	1.77	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	89	10069	2.00	1.89	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	71	6826	2.00	1.80	
103 2-Chlorotoluene	126	8.438	8.438	0.000	96	23109	2.00	1.93	
102 1,3,5-Trimethylbenzene	105	8.479	8.490	-0.011	95	68856	2.00	1.75	
105 4-Chlorotoluene	126	8.531	8.531	0.000	96	22588	2.00	1.86	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	16209	2.00	1.84	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	96	73291	2.00	1.83	

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	8.925	8.925	0.000	94	87529	2.00	1.74	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	75461	2.00	1.72	
111 1,3-Dichlorobenzene	146	9.049	9.060	-0.011	97	46788	2.00	1.91	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	95	48240	2.00	1.92	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	70467	2.00	1.75	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	98	49320	2.00	1.95	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	82	6443	2.00	1.90	
119 1,2,4-Trichlorobenzene	180	10.759	10.770	-0.011	92	39351	2.00	2.02	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	96	15329	2.00	1.78	
121 Naphthalene	128	10.977	10.977	0.000	96	107252	2.00	1.80	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	94	35036	2.00	1.82	
S 126 1,3-Dichloropropene, Total	1				0			3.55	
S 125 1,2-Dichloroethene, Total	1				0			3.72	
S 123 Total BTEX	1				0			9.74	
S 124 Xylenes, Total	1				0			3.89	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00198	Amount Added:	2.00	Units: uL	
GAS CORP mix_00427	Amount Added:	2.00	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

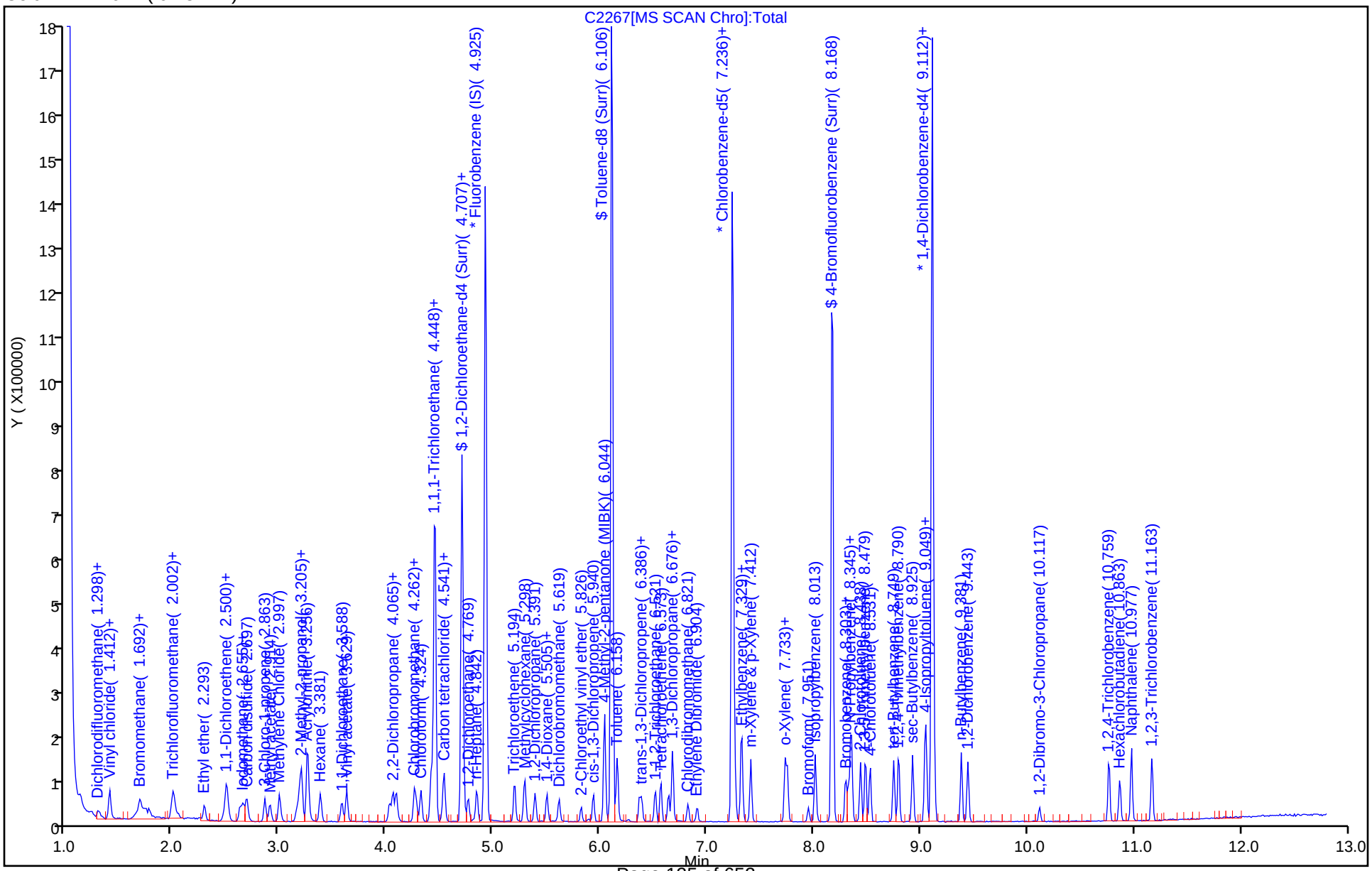
Report Date: 19-Nov-2020 12:03:22 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2267.D

Injection Date:	18-Nov-2020 16:07:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC 2			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

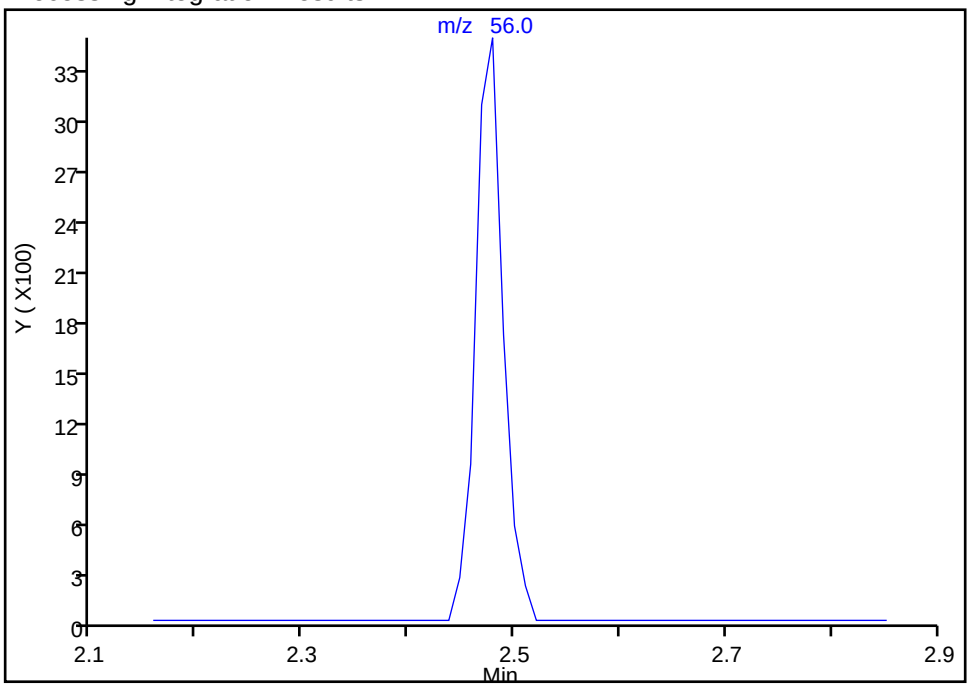
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2267.D
Injection Date: 18-Nov-2020 16:07:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

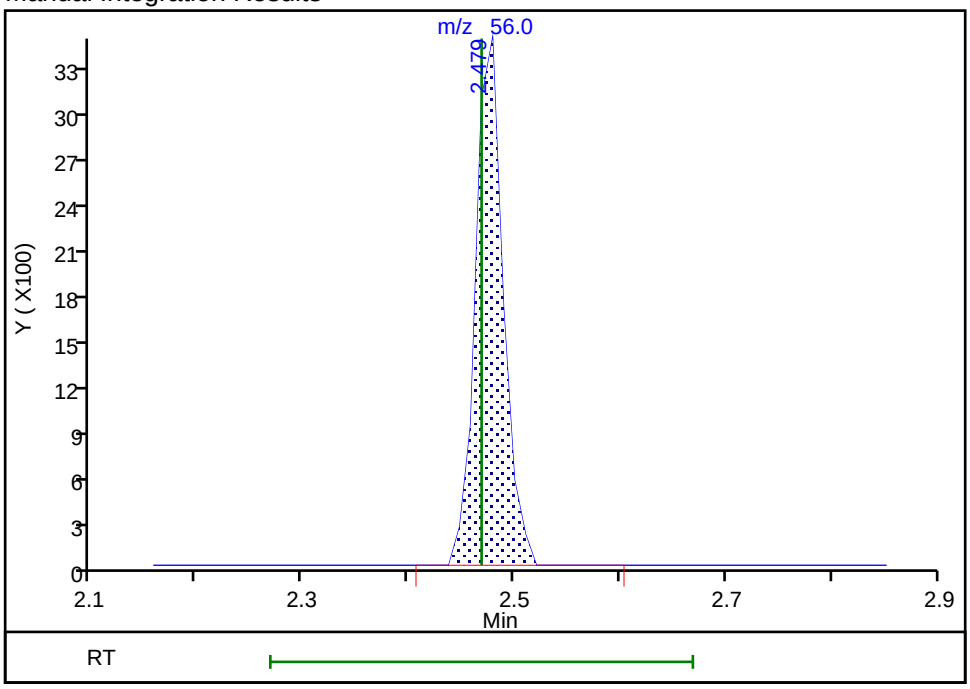
Not Detected
Expected RT: 2.47

Processing Integration Results



Manual Integration Results

RT: 2.48
Area: 6341
Amount: 10.910668
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:05:22
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

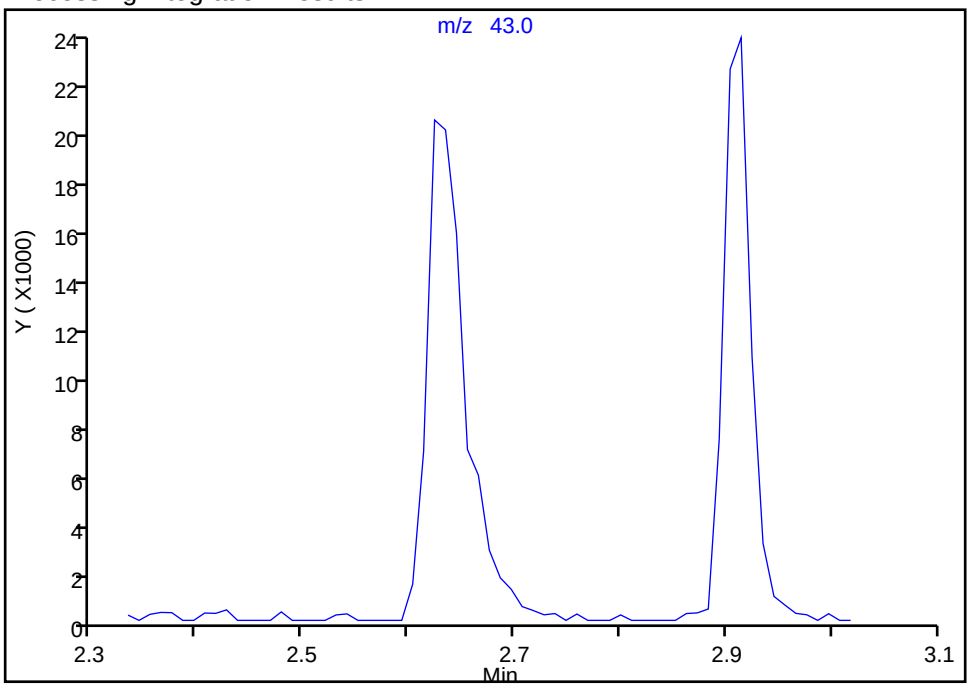
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2267.D
Injection Date: 18-Nov-2020 16:07:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

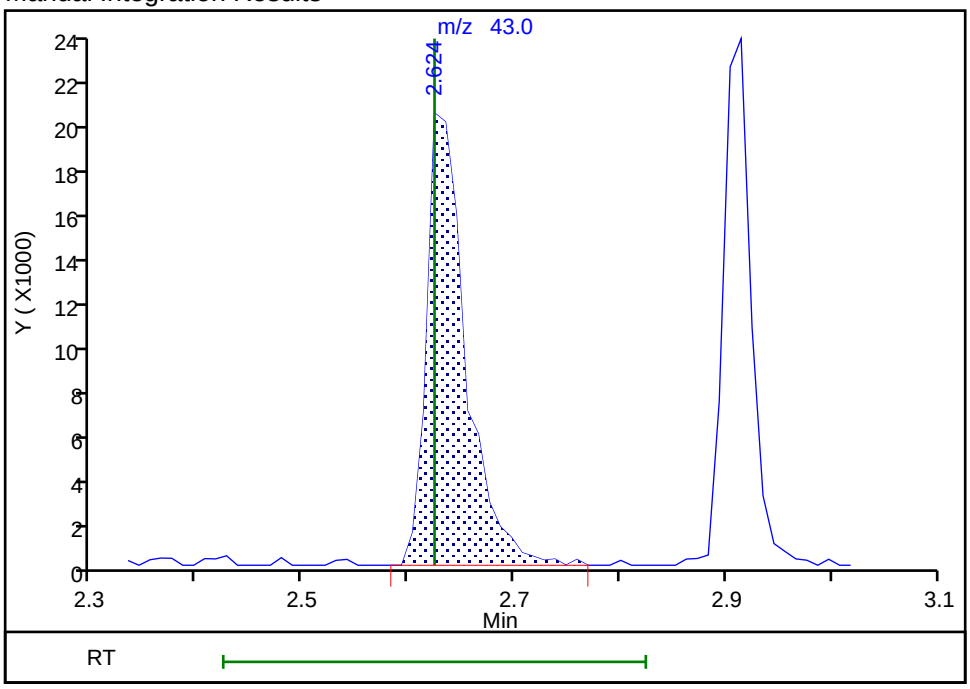
Not Detected
Expected RT: 2.62

Processing Integration Results



Manual Integration Results

RT: 2.62
Area: 52091
Amount: 10.577583
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:05:29
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

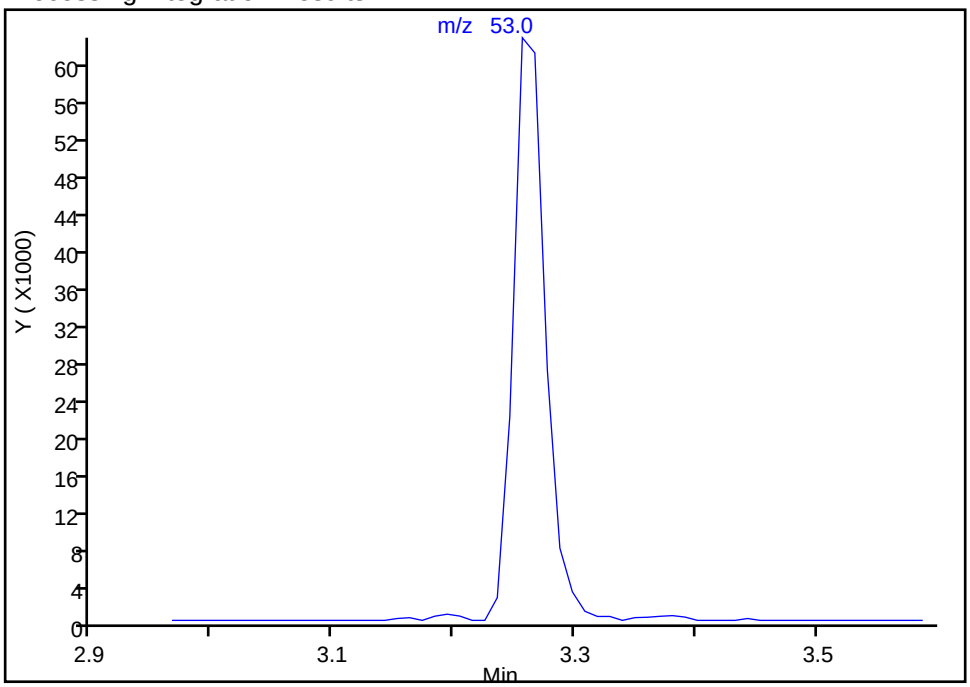
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2267.D
Injection Date: 18-Nov-2020 16:07:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

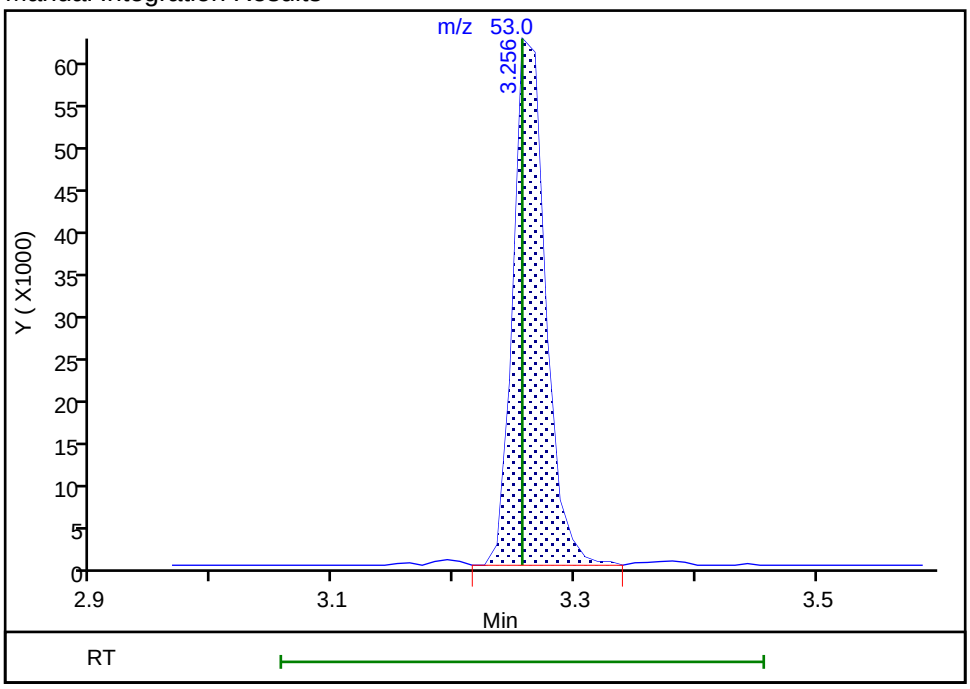
Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 115835
Amount: 20.697531
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:05:35
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Report Date: 19-Nov-2020 12:03:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2268.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Nov-2020 16:32:30 ALS Bottle#: 7 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 3
Misc. Info.: 480-0095057-016
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:03:28 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 20:11:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	193260	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	367864	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	95	389094	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	94	344723	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	185408	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1020415	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	324208	25.0	24.2	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	97	54276	5.00	4.70	
12 Chloromethane	50	1.308	1.308	0.000	99	53115	5.00	4.71	
13 Vinyl chloride	62	1.401	1.401	0.000	98	54881	5.00	4.86	
151 Butadiene	54	1.412	1.412	0.000	89	47561	5.00	4.57	
14 Bromomethane	94	1.691	1.691	0.000	92	50348	5.00	4.87	
15 Chloroethane	64	1.774	1.774	0.000	98	36709	5.00	4.67	
16 Dichlorofluoromethane	67	2.002	2.002	0.000	97	89284	5.00	4.86	
17 Trichlorofluoromethane	101	2.002	2.002	0.000	97	92074	5.00	4.92	
18 Ethyl ether	59	2.293	2.293	0.000	90	44296	5.00	4.91	
20 Acrolein	56	2.479	2.479	0.000	99	15547	25.0	26.3	Ma
22 1,1-Dichloroethene	96	2.510	2.510	0.000	98	52548	5.00	5.17	
21 112TCTFE	101	2.500	2.500	0.000	90	58229	5.00	5.14	
23 Acetone	43	2.624	2.624	0.000	100	130315	25.0	26.0	
25 Iodomethane	142	2.666	2.666	0.000	100	103490	5.00	5.18	
26 Carbon disulfide	76	2.697	2.697	0.000	100	168994	5.00	5.08	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	85	64809	5.00	4.87	
27 Methyl acetate	43	2.904	2.904	0.000	97	111856	10.0	10.6	
30 Methylene Chloride	84	2.997	2.997	0.000	89	63473	5.00	5.36	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	96	122023	50.0	49.1	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	99	169449	5.00	5.14	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	97	60313	5.00	5.25	
33 Acrylonitrile	53	3.256	3.256	0.000	98	301069	50.0	52.9	
35 Hexane	57	3.381	3.381	0.000	92	68959	5.00	4.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	93505	5.00	5.15	
37 Vinyl acetate	43	3.629	3.629	0.000	98	213266	10.0	9.61	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	90	59457	5.00	5.17	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	77	65529	5.00	5.08	
43 2-Butanone (MEK)	43	4.096	4.096	0.000	99	183059	25.0	25.5	
48 Chlorobromomethane	128	4.262	4.262	0.000	85	36770	5.00	5.02	
49 Tetrahydrofuran	42	4.272	4.272	0.000	85	52211	10.0	9.37	
50 Chloroform	83	4.324	4.324	0.000	93	106119	5.00	5.16	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	98	79384	5.00	5.09	
52 Cyclohexane	56	4.427	4.427	0.000	89	83514	5.00	5.26	
55 Carbon tetrachloride	117	4.531	4.531	0.000	95	68306	5.00	5.07	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	95	74392	5.00	5.27	
57 Benzene	78	4.707	4.707	0.000	95	208389	5.00	5.18	
53 Isobutyl alcohol	43	4.718	4.718	0.000	90	100945	125.0	131.1	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	97	78839	5.00	5.11	
59 n-Heptane	43	4.842	4.842	0.000	87	60957	5.00	4.63	
62 Trichloroethene	95	5.194	5.194	0.000	95	59215	5.00	5.12	
64 Methylcyclohexane	83	5.298	5.298	0.000	87	95766	5.00	5.27	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	91	45813	5.00	4.98	
67 Dibromomethane	93	5.505	5.505	0.000	91	38270	5.00	4.97	
66 1,4-Dioxane	88	5.505	5.505	0.000	39	22858	100.0	114.4	
68 Dichlorobromomethane	83	5.619	5.619	0.000	97	62787	5.00	4.82	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	92	29898	5.00	4.74	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	95	68817	5.00	4.84	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	95	329467	25.0	24.9	
74 Toluene	92	6.158	6.158	0.000	99	122366	5.00	4.95	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	95	60584	5.00	4.77	
75 Ethyl methacrylate	69	6.386	6.386	0.000	87	56018	5.00	4.57	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	90	38081	5.00	4.92	
81 Tetrachloroethene	166	6.572	6.572	0.000	97	58160	5.00	4.96	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	90	77267	5.00	5.06	
80 2-Hexanone	43	6.676	6.676	0.000	96	216085	25.0	24.1	
83 Chlorodibromomethane	129	6.821	6.821	0.000	89	47785	5.00	4.75	
84 Ethylene Dibromide	107	6.904	6.904	0.000	96	50961	5.00	5.00	
87 Chlorobenzene	112	7.267	7.267	0.000	97	142872	5.00	4.94	
88 Ethylbenzene	91	7.319	7.319	0.000	98	228070	5.00	5.01	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	94	48922	5.00	4.90	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	97	89232	5.00	5.04	
91 o-Xylene	106	7.733	7.733	0.000	97	92357	5.00	5.16	
92 Styrene	104	7.754	7.754	0.000	95	135923	5.00	5.08	
95 Bromoform	173	7.951	7.951	0.000	95	32304	5.00	4.65	
94 Isopropylbenzene	105	8.013	8.013	0.000	96	237333	5.00	5.24	
101 Bromobenzene	156	8.303	8.303	0.000	89	61862	5.00	5.11	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	97	74862	5.00	5.17	
99 N-Propylbenzene	91	8.345	8.345	0.000	99	280487	5.00	5.20	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	89	27800	5.00	5.43	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	72	17619	5.00	4.82	
103 2-Chlorotoluene	126	8.438	8.438	0.000	98	62600	5.00	5.42	
102 1,3,5-Trimethylbenzene	105	8.479	8.479	0.000	95	198650	5.00	5.23	
105 4-Chlorotoluene	126	8.531	8.531	0.000	96	61724	5.00	5.29	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	43127	5.00	5.09	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	96	199264	5.00	5.15	

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	8.925	8.925	0.000	94	252696	5.00	5.23	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	217013	5.00	5.14	
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	98	125032	5.00	5.30	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	95	125330	5.00	5.18	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	203770	5.00	5.25	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	98	126999	5.00	5.21	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	82	16910	5.00	5.18	
119 1,2,4-Trichlorobenzene	180	10.770	10.770	0.000	94	96720	5.00	5.15	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	97	44546	5.00	5.36	
121 Naphthalene	128	10.977	10.977	0.000	96	293303	5.00	5.09	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	102250	5.00	5.50	
S 126 1,3-Dichloropropene, Total	1				0			9.62	
S 125 1,2-Dichloroethene, Total	1				0			10.3	
S 123 Total BTEX	1				0			25.3	
S 124 Xylenes, Total	1				0			10.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00198	Amount Added:	5.00	Units: uL	
GAS CORP mix_00427	Amount Added:	5.00	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

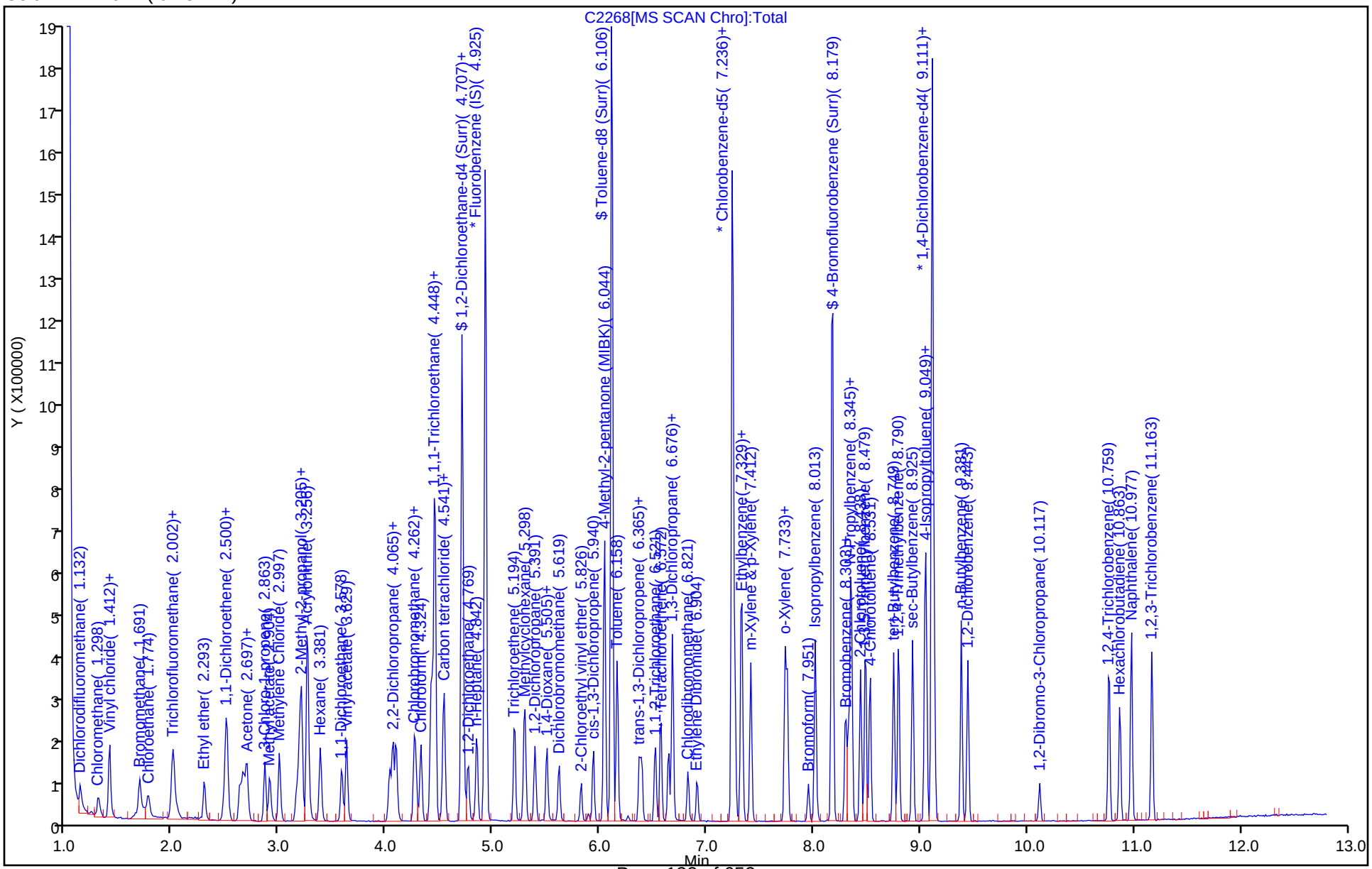
Report Date: 19-Nov-2020 12:03:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2268.D

Injection Date:	18-Nov-2020 16:32:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

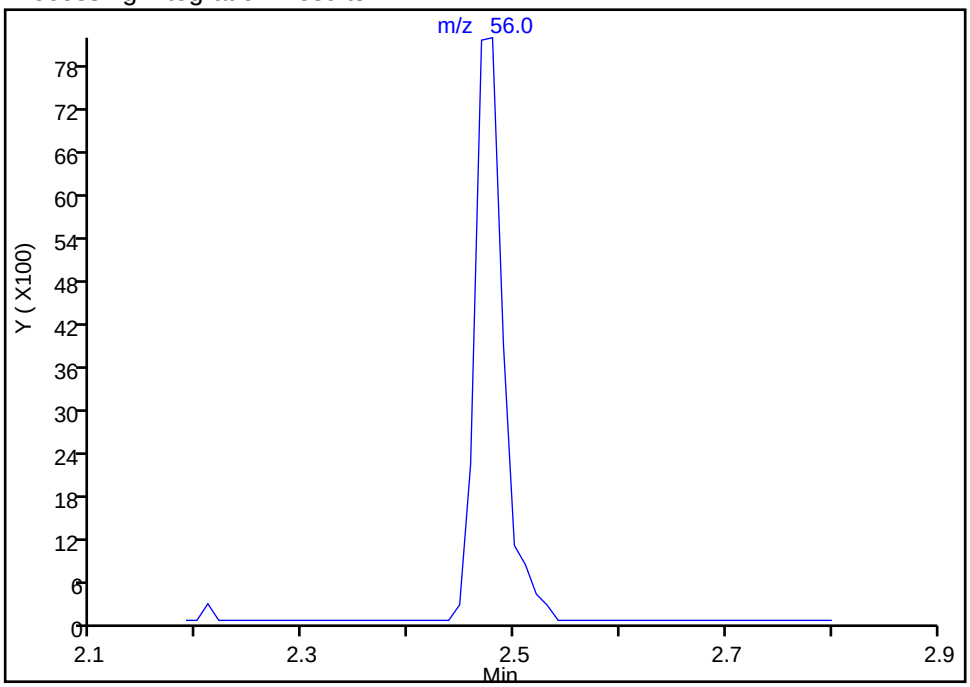
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2268.D
Injection Date: 18-Nov-2020 16:32:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

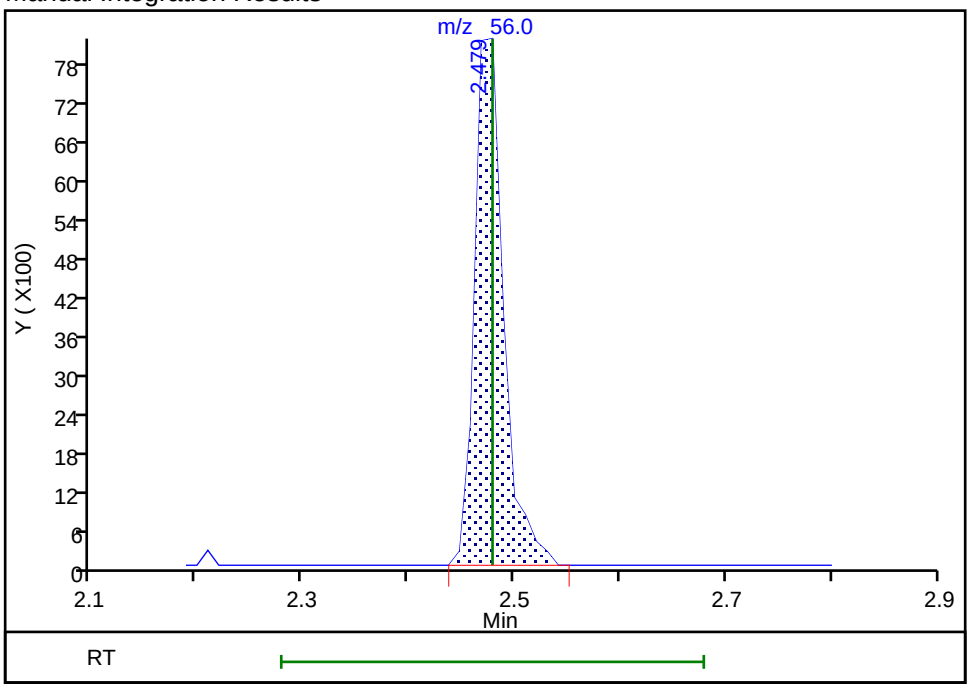
Not Detected
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.48
Area: 15547
Amount: 26.322739
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:10:18
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2269.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Nov-2020 16:57:30 ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 4
Misc. Info.: 480-0095057-017
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:03:40 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 20:15:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	196921	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	86	381962	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	401971	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	334270	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	185526	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1099665	25.0	25.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	345189	25.0	24.8	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	129213	10.0	11.0	
12 Chloromethane	50	1.298	1.308	-0.010	99	116596	10.0	10.1	
13 Vinyl chloride	62	1.401	1.401	0.000	97	116950	10.0	10.2	
151 Butadiene	54	1.412	1.412	0.000	90	109705	10.0	10.4	
14 Bromomethane	94	1.681	1.691	-0.010	92	100737	10.0	9.56	
15 Chloroethane	64	1.775	1.774	0.001	100	80196	10.0	10.0	
16 Dichlorofluoromethane	67	2.003	2.002	0.000	96	192285	10.0	10.3	
17 Trichlorofluoromethane	101	2.003	2.002	0.000	79	203663	10.0	10.7	
18 Ethyl ether	59	2.293	2.293	0.000	89	91101	10.0	9.92	
20 Acrolein	56	2.469	2.479	-0.010	99	29876	50.0	49.6	Ma
21 112TCTFE	101	2.500	2.500	0.000	92	117677	10.0	10.2	
22 1,1-Dichloroethene	96	2.500	2.510	-0.010	97	102737	10.0	9.93	
23 Acetone	43	2.624	2.624	0.000	100	265219	50.0	52.0	
25 Iodomethane	142	2.655	2.666	-0.011	99	203059	10.0	9.97	
26 Carbon disulfide	76	2.686	2.697	-0.011	100	346328	10.0	10.2	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	85	139289	10.0	10.3	
27 Methyl acetate	43	2.904	2.904	0.000	97	223892	20.0	20.8	
30 Methylene Chloride	84	2.997	2.997	0.000	89	123302	10.0	10.6	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	99	265751	100.0	104.9	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	99	342901	10.0	10.2	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.001	95	120752	10.0	10.3	
33 Acrylonitrile	53	3.256	3.256	0.000	98	629718	100.0	108.7	
35 Hexane	57	3.381	3.381	0.000	92	142632	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
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	192898	10.0	10.4	
37 Vinyl acetate	43	3.630	3.629	0.001	98	460746	20.0	20.4	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	91	119986	10.0	10.2	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	76	132158	10.0	10.1	
43 2-Butanone (MEK)	43	4.085	4.096	-0.011	99	390479	50.0	53.3	
48 Chlorobromomethane	128	4.262	4.262	0.000	87	74831	10.0	10.0	
49 Tetrahydrofuran	42	4.272	4.272	0.000	80	108774	20.0	19.2	
50 Chloroform	83	4.324	4.324	0.000	94	204650	10.0	9.77	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	97	167273	10.0	10.5	
52 Cyclohexane	56	4.427	4.427	0.000	88	167792	10.0	10.4	
55 Carbon tetrachloride	117	4.531	4.531	0.000	96	143243	10.0	10.4	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	95	151199	10.0	10.5	
57 Benzene	78	4.707	4.707	0.000	94	419282	10.0	10.2	
53 Isobutyl alcohol	43	4.718	4.718	0.000	93	226753	250.0	288.9	
58 1,2-Dichloroethane	62	4.759	4.769	-0.010	97	154030	10.0	9.79	
59 n-Heptane	43	4.842	4.842	0.000	85	132942	10.0	9.92	
62 Trichloroethene	95	5.194	5.194	0.000	96	120532	10.0	10.2	
64 Methylcyclohexane	83	5.298	5.298	0.000	87	196623	10.0	10.6	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	91	95689	10.0	10.2	
66 1,4-Dioxane	88	5.505	5.505	0.000	41	45279	200.0	218.3	M
67 Dibromomethane	93	5.505	5.505	0.000	91	79630	10.0	10.2	
68 Dichlorobromomethane	83	5.619	5.619	0.000	99	133533	10.0	10.1	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	94	70500	10.0	11.0	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	94	150817	10.0	10.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	740835	50.0	54.0	
74 Toluene	92	6.158	6.158	0.000	98	266688	10.0	10.4	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	94	139611	10.0	10.6	
75 Ethyl methacrylate	69	6.386	6.386	0.000	86	136869	10.0	10.8	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	90	83475	10.0	10.4	
81 Tetrachloroethene	166	6.573	6.572	0.001	96	122909	10.0	10.1	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	89	168206	10.0	10.6	
80 2-Hexanone	43	6.676	6.676	0.000	96	505213	50.0	54.3	
83 Chlorodibromomethane	129	6.821	6.821	0.000	89	108197	10.0	10.4	
84 Ethylene Dibromide	107	6.904	6.904	0.000	98	113656	10.0	10.7	
87 Chlorobenzene	112	7.267	7.267	0.000	98	309553	10.0	10.3	
88 Ethylbenzene	91	7.319	7.319	0.000	98	499264	10.0	10.6	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	93	102968	10.0	9.93	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	97	193664	10.0	10.5	
91 o-Xylene	106	7.733	7.733	0.000	97	190828	10.0	10.3	
92 Styrene	104	7.754	7.754	0.000	95	291709	10.0	10.5	
95 Bromoform	173	7.951	7.951	0.000	95	68685	10.0	9.53	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	511052	10.0	10.9	
101 Bromobenzene	156	8.303	8.303	0.000	88	133250	10.0	10.7	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	97	155994	10.0	10.4	
99 N-Propylbenzene	91	8.345	8.345	0.000	98	597405	10.0	10.7	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	89	57323	10.0	10.8	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	73	39444	10.0	10.4	
103 2-Chlorotoluene	126	8.438	8.438	0.000	97	129682	10.0	10.9	
102 1,3,5-Trimethylbenzene	105	8.490	8.479	0.011	95	421966	10.0	10.8	
105 4-Chlorotoluene	126	8.531	8.531	0.000	97	126803	10.0	10.5	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	97786	10.0	11.2	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	96	429774	10.0	10.8	

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	8.925	8.925	0.000	94	547016	10.0	11.0	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	96	467233	10.0	10.7	
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	99	254409	10.0	10.4	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	96	268345	10.0	10.7	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	434118	10.0	10.8	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	97	262885	10.0	10.4	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	87	34273	10.0	10.2	
119 1,2,4-Trichlorobenzene	180	10.770	10.770	0.000	94	202345	10.0	10.4	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	98	87775	10.0	10.2	
121 Naphthalene	128	10.977	10.977	0.000	96	629480	10.0	10.6	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	203041	10.0	10.6	
S 126 1,3-Dichloropropene, Total	1				0			21.0	
S 125 1,2-Dichloroethene, Total	1				0			20.4	
S 123 Total BTEX	1				0			52.0	
S 124 Xylenes, Total	1				0			20.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00198	Amount Added:	5.00	Units: uL	
GAS CORP mix_00427	Amount Added:	5.00	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

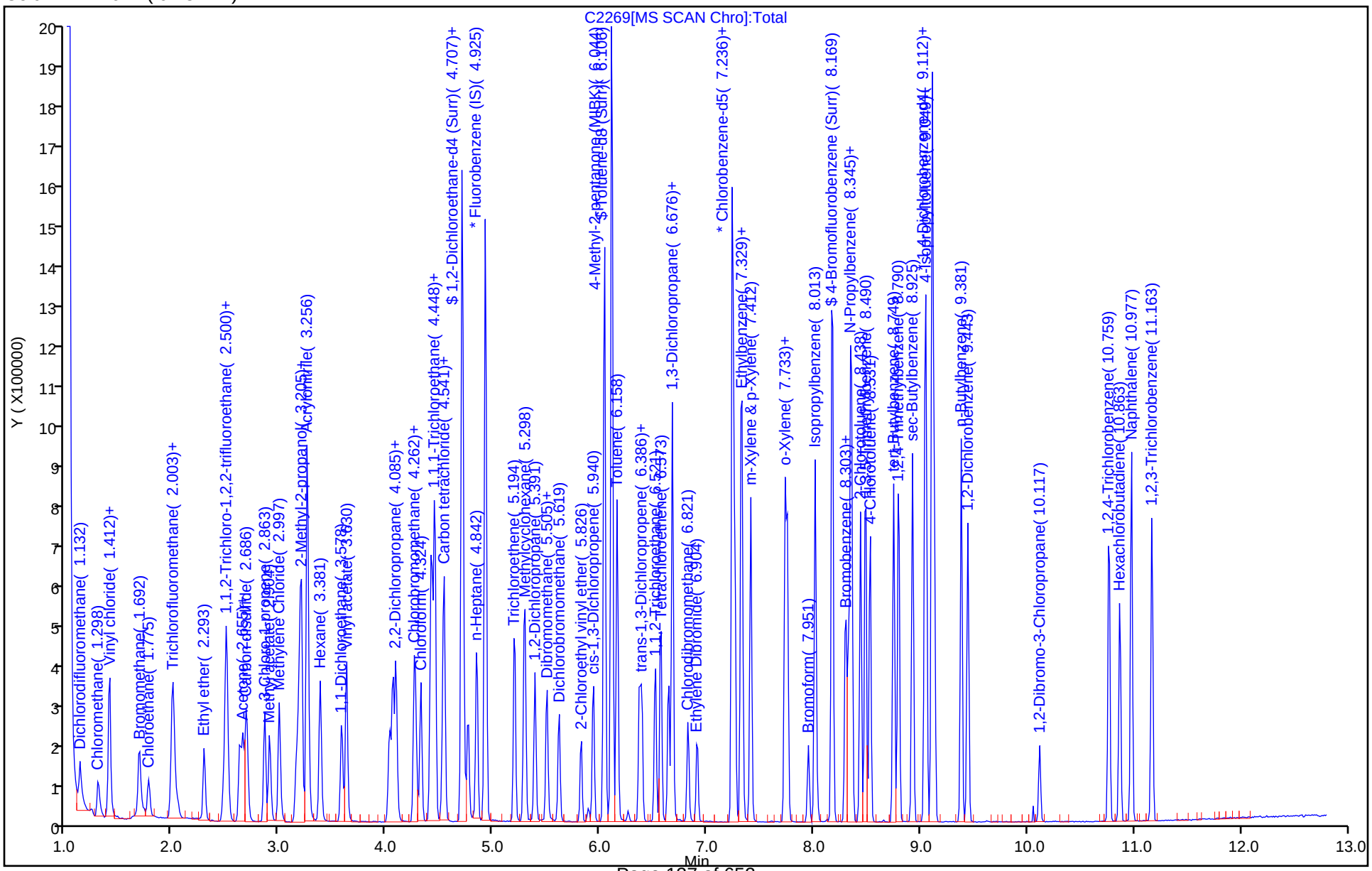
Report Date: 19-Nov-2020 12:03:44 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2269.D

Injection Date:	18-Nov-2020 16:57:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC 4			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

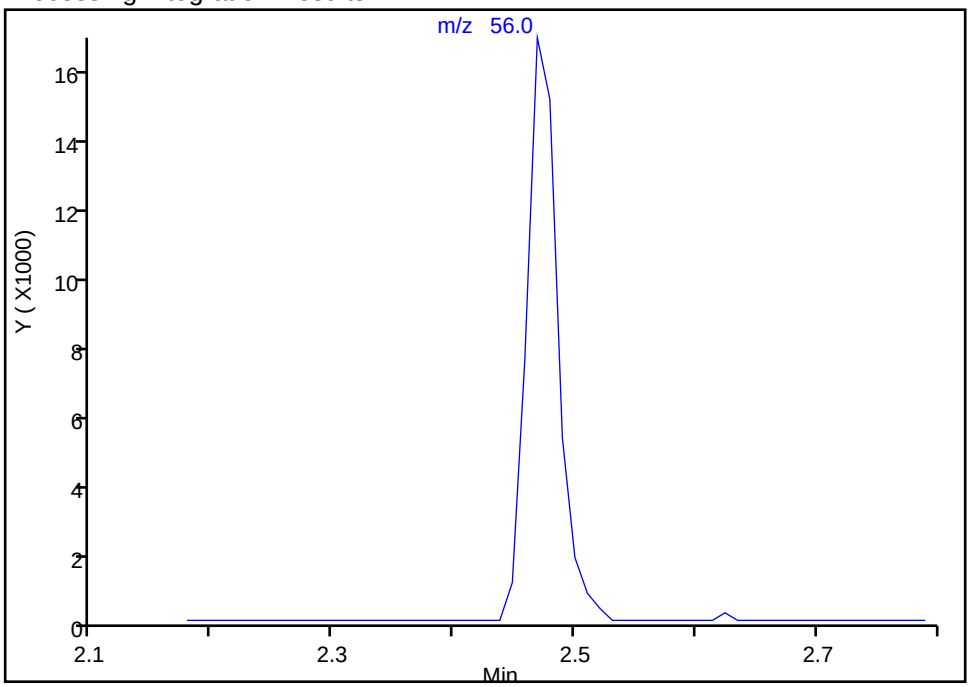
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2269.D
Injection Date: 18-Nov-2020 16:57:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

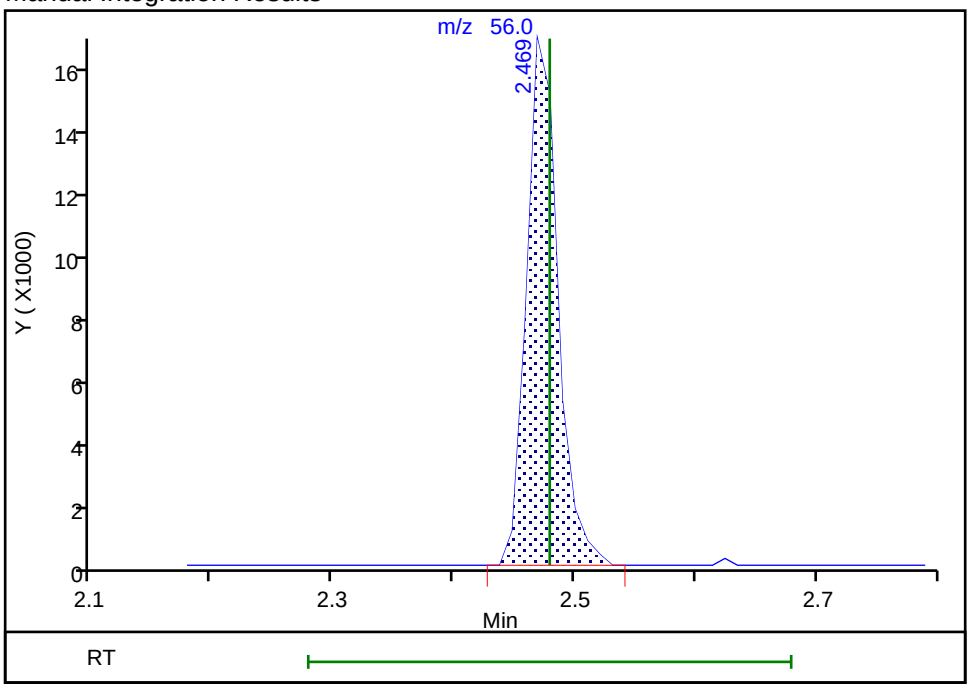
Not Detected
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.47
Area: 29876
Amount: 49.642869
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:13:07
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

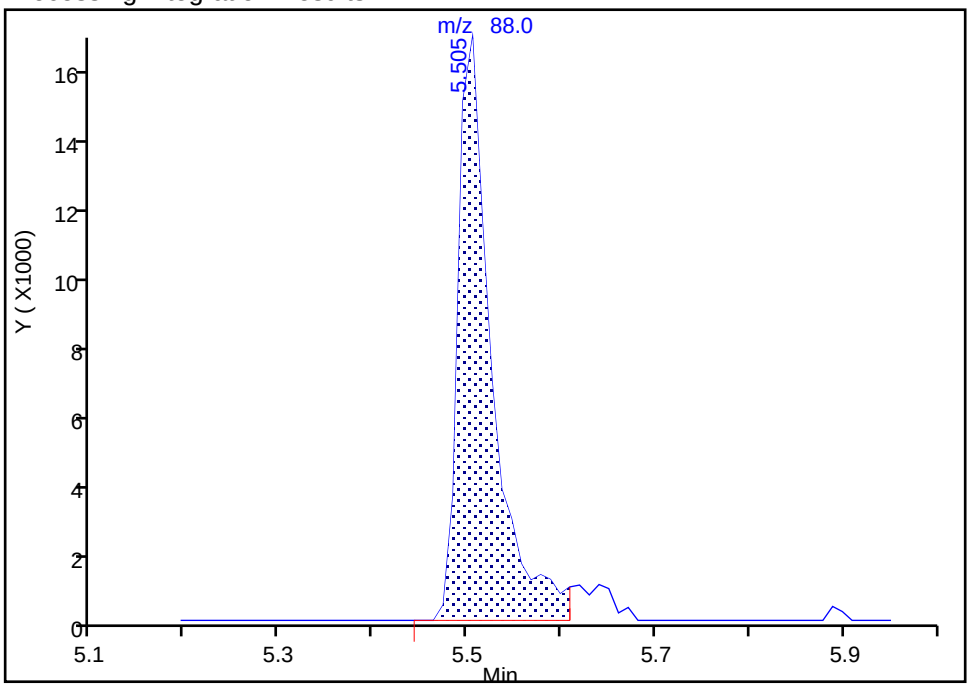
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2269.D
Injection Date: 18-Nov-2020 16:57:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

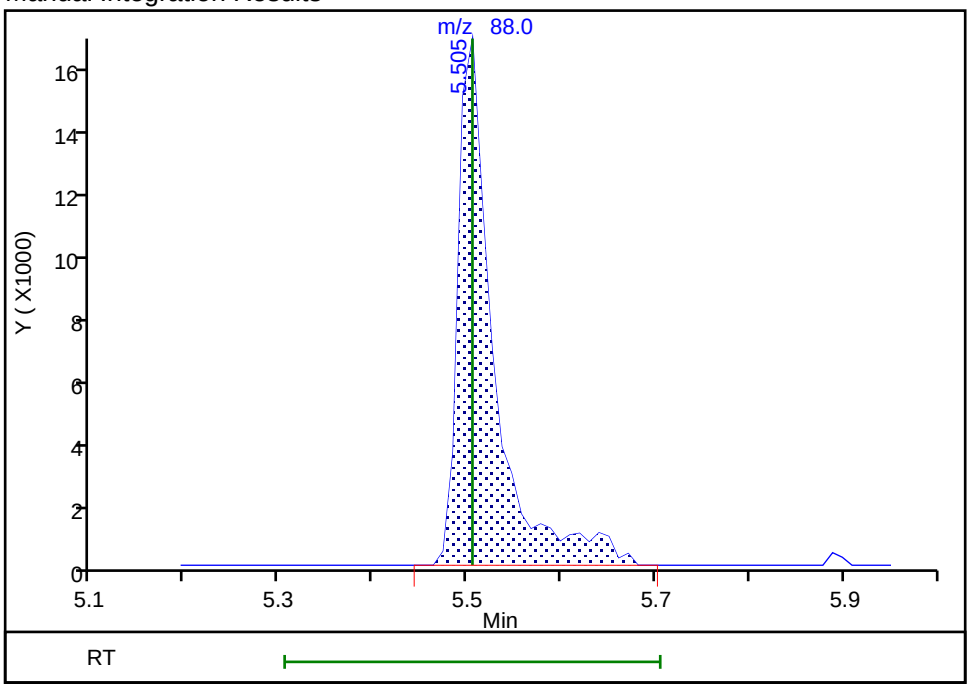
Processing Integration Results

RT: 5.51
Area: 42590
Amount: 206.9664
Amount Units: ug/L



Manual Integration Results

RT: 5.51
Area: 45279
Amount: 218.2512
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:13:42
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2270.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 18-Nov-2020 17:22:30 ALS Bottle#: 9 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: icis 5
Misc. Info.: 480-0095057-018
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:03:50 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 19-Nov-2020 11:11:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	200563	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	389943	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	434458	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	94	353751	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	97	190005	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1056493	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	344630	25.0	24.3	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	301280	25.0	25.2	
12 Chloromethane	50	1.308	1.308	0.000	99	292774	25.0	25.0	
13 Vinyl chloride	62	1.401	1.401	0.000	98	300200	25.0	25.6	
151 Butadiene	54	1.412	1.412	0.000	90	269743	25.0	25.0	
14 Bromomethane	94	1.692	1.692	0.000	92	248539	25.0	23.2	
15 Chloroethane	64	1.774	1.774	0.000	100	198747	25.0	24.4	
16 Dichlorofluoromethane	67	2.002	2.002	0.000	95	486563	25.0	25.5	
17 Trichlorofluoromethane	101	2.002	2.002	0.000	80	510171	25.0	26.3	
18 Ethyl ether	59	2.293	2.293	0.000	89	229246	25.0	24.5	
20 Acrolein	56	2.469	2.469	0.000	0	74100	125.0	120.9	M
21 112TCTFE	101	2.500	2.500	0.000	93	285405	25.0	24.3	
22 1,1-Dichloroethene	96	2.500	2.500	0.000	98	259597	25.0	24.6	
23 Acetone	43	2.624	2.624	0.000	100	647713	125.0	124.7	
25 Iodomethane	142	2.655	2.655	0.000	99	518960	25.0	25.0	
26 Carbon disulfide	76	2.697	2.697	0.000	99	850297	25.0	24.6	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	86	345470	25.0	25.0	
27 Methyl acetate	43	2.904	2.904	0.000	97	565322	50.0	51.6	
30 Methylene Chloride	84	2.997	2.997	0.000	90	295405	25.0	25.4	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	99	634318	250.0	245.9	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	98	856915	25.0	25.1	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	97	300589	25.0	25.2	
33 Acrylonitrile	53	3.256	3.256	0.000	98	1543333	250.0	261.5	
35 Hexane	57	3.381	3.381	0.000	92	347562	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	470404	25.0	25.0	
37 Vinyl acetate	43	3.629	3.629	0.000	97	1185473	50.0	51.5	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	90	310575	25.0	26.0	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	77	332397	25.0	24.8	
43 2-Butanone (MEK)	43	4.085	4.085	0.000	99	946754	125.0	126.9	
48 Chlorobromomethane	128	4.262	4.262	0.000	86	184765	25.0	24.3	
49 Tetrahydrofuran	42	4.272	4.272	0.000	82	255181	50.0	44.1	
50 Chloroform	83	4.324	4.324	0.000	94	509443	25.0	23.9	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	98	411914	25.0	25.4	
52 Cyclohexane	56	4.427	4.427	0.000	89	422999	25.0	25.7	
55 Carbon tetrachloride	117	4.531	4.531	0.000	96	362355	25.0	25.9	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	95	370337	25.0	25.3	
57 Benzene	78	4.707	4.707	0.000	95	1054357	25.0	25.2	
53 Isobutyl alcohol	43	4.718	4.718	0.000	92	551223	625.0	689.7	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	97	392557	25.0	24.5	
59 n-Heptane	43	4.842	4.842	0.000	87	323931	25.0	23.7	
62 Trichloroethene	95	5.194	5.194	0.000	97	301722	25.0	25.1	
64 Methylcyclohexane	83	5.298	5.298	0.000	86	489348	25.0	25.9	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	92	240628	25.0	25.2	
67 Dibromomethane	93	5.505	5.505	0.000	93	203118	25.0	25.4	
66 1,4-Dioxane	88	5.505	5.505	0.000	40	108212	500.0	510.9	
68 Dichlorobromomethane	83	5.619	5.619	0.000	99	344486	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	94	168039	25.0	25.6	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	95	384044	25.0	26.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	1808438	125.0	129.1	
74 Toluene	92	6.158	6.158	0.000	97	629710	25.0	24.0	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	96	343605	25.0	25.5	
75 Ethyl methacrylate	69	6.386	6.386	0.000	87	326993	25.0	25.2	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	91	209141	25.0	25.5	
81 Tetrachloroethene	166	6.573	6.573	0.000	98	301769	25.0	24.3	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	90	400172	25.0	24.7	
80 2-Hexanone	43	6.676	6.676	0.000	96	1185705	125.0	124.8	
83 Chlorodibromomethane	129	6.821	6.821	0.000	89	268898	25.0	25.2	
84 Ethylene Dibromide	107	6.904	6.904	0.000	98	277586	25.0	25.7	
87 Chlorobenzene	112	7.256	7.256	0.000	96	748514	25.0	24.4	
88 Ethylbenzene	91	7.319	7.319	0.000	98	1204062	25.0	24.9	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	94	270324	25.0	25.5	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	470976	25.0	25.1	
91 o-Xylene	106	7.733	7.733	0.000	97	475495	25.0	25.1	
92 Styrene	104	7.754	7.754	0.000	95	730911	25.0	25.8	
95 Bromoform	173	7.951	7.951	0.000	96	184764	25.0	25.1	
94 Isopropylbenzene	105	8.013	8.013	0.000	96	1267947	25.0	25.1	
101 Bromobenzene	156	8.303	8.303	0.000	89	327088	25.0	24.2	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	96	393654	25.0	24.3	
99 N-Propylbenzene	91	8.345	8.345	0.000	99	1481958	25.0	24.6	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	89	136268	25.0	23.8	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	80	100367	25.0	24.6	
103 2-Chlorotoluene	126	8.438	8.438	0.000	98	313797	25.0	24.3	
102 1,3,5-Trimethylbenzene	105	8.490	8.490	0.000	95	1080791	25.0	25.5	
105 4-Chlorotoluene	126	8.531	8.531	0.000	96	314084	25.0	24.1	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	244450	25.0	25.8	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	97	1092061	25.0	25.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.925	8.925	0.000	94	1396157	25.0	25.9	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	1188821	25.0	25.2	
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	98	630521	25.0	23.9	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	96	635438	25.0	23.5	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	1068975	25.0	24.6	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	99	652657	25.0	24.0	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	87	85022	25.0	23.3	
119 1,2,4-Trichlorobenzene	180	10.770	10.770	0.000	94	519922	25.0	24.8	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	98	221990	25.0	23.9	
121 Naphthalene	128	10.977	10.977	0.000	96	1630835	25.0	25.4	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	511889	25.0	24.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00198	Amount Added:	12.50	Units: uL	
GAS CORP mix_00427	Amount Added:	12.50	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

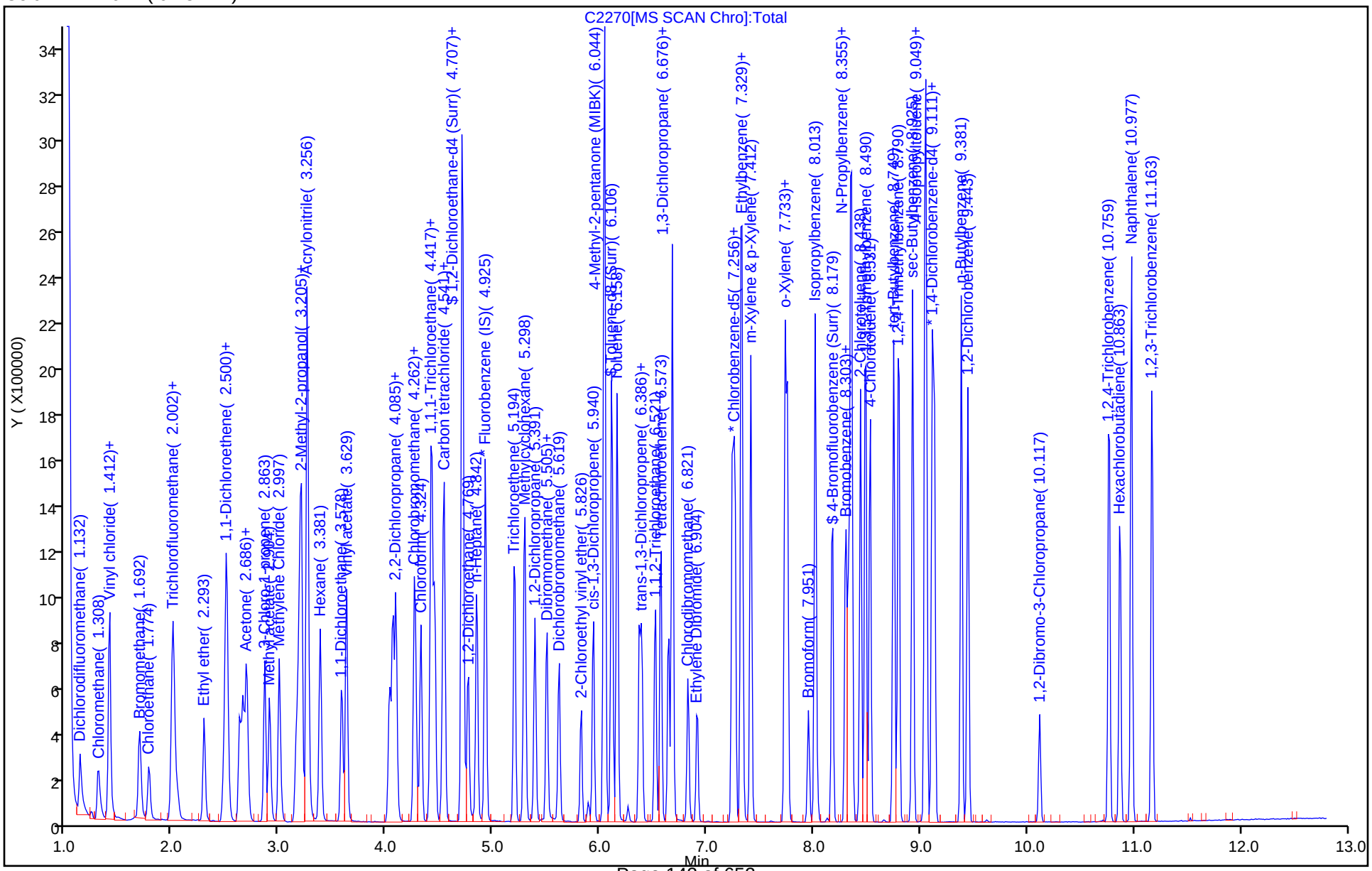
Report Date: 19-Nov-2020 12:03:54 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2270.D

Injection Date:	18-Nov-2020 17:22:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	ICIS 5			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

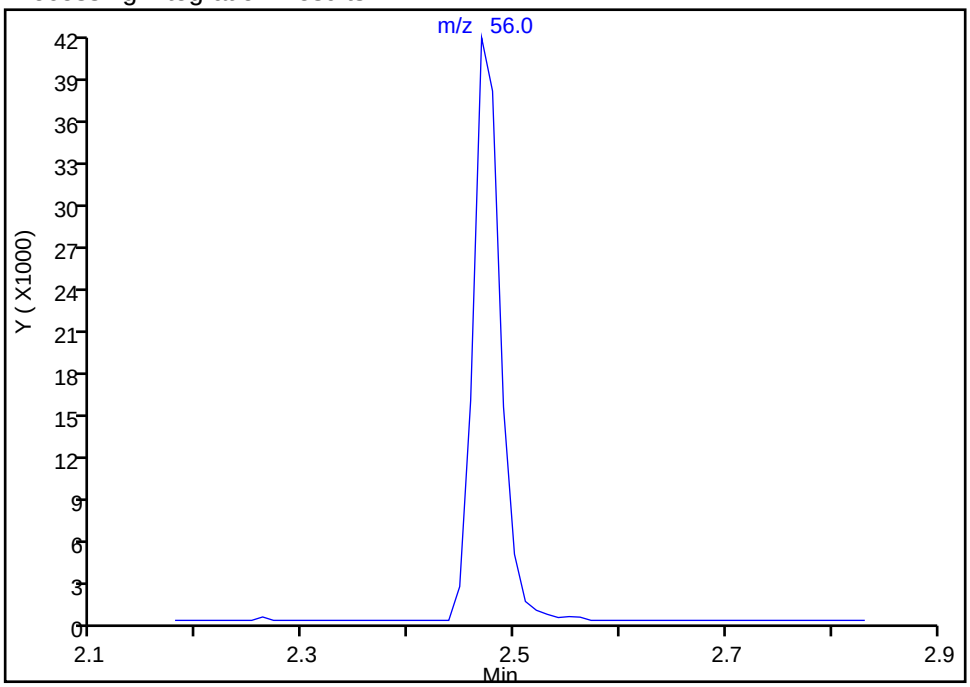
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2270.D
Injection Date: 18-Nov-2020 17:22:30 Instrument ID: HP5973C
Lims ID: ICIS 5
Client ID:
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

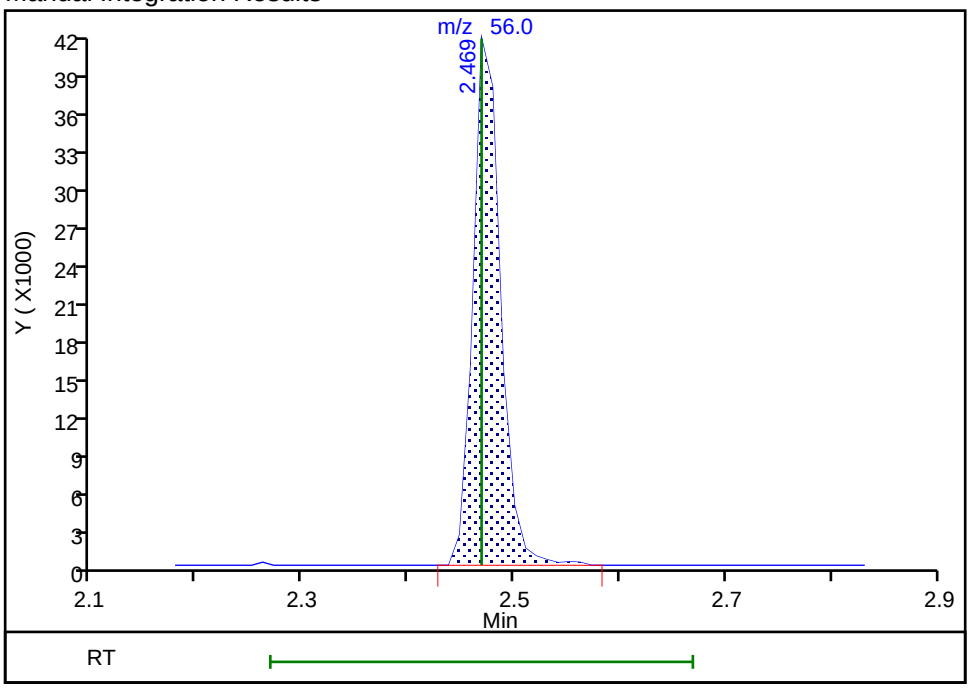
Not Detected
Expected RT: 2.47

Processing Integration Results



Manual Integration Results

RT: 2.47
Area: 74100
Amount: 120.8910
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 19:50:33
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2271.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-Nov-2020 17:47:30 ALS Bottle#: 10 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 6
Misc. Info.: 480-0095057-019
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:04:00 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 20:16:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	202510	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	391981	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	93	427701	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	94	343408	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	96	186099	25.0	24.4	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1069390	25.0	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	339137	25.0	23.8	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	628911	50.0	52.0	
12 Chloromethane	50	1.298	1.308	-0.010	99	559369	50.0	47.3	
13 Vinyl chloride	62	1.401	1.401	0.000	98	604108	50.0	51.1	
151 Butadiene	54	1.412	1.412	0.000	90	528544	50.0	48.5	
14 Bromomethane	94	1.681	1.692	-0.011	91	495678	50.0	45.7	
15 Chloroethane	64	1.775	1.774	0.000	100	382871	50.0	46.5	
16 Dichlorofluoromethane	67	2.003	2.002	0.000	95	958288	50.0	49.8	
17 Trichlorofluoromethane	101	2.003	2.002	0.000	82	1017112	50.0	51.9	
18 Ethyl ether	59	2.293	2.293	0.000	89	457628	50.0	48.4	
20 Acrolein	56	2.469	2.469	0.000	99	161955	250.0	261.7	Ma
22 1,1-Dichloroethene	96	2.500	2.500	0.000	97	525990	50.0	49.4	
21 112TCTFE	101	2.500	2.500	0.000	93	588662	50.0	49.6	
23 Acetone	43	2.624	2.624	0.000	99	1345132	250.0	256.5	
25 Iodomethane	142	2.655	2.655	0.000	99	1048048	50.0	50.0	
26 Carbon disulfide	76	2.686	2.697	-0.011	99	1749013	50.0	50.1	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	85	700834	50.0	50.2	
27 Methyl acetate	43	2.904	2.904	0.000	97	1160235	100.0	105.0	
30 Methylene Chloride	84	2.997	2.997	0.000	89	591387	50.0	50.7	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	99	1359864	500.0	522.2	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	96	1776873	50.0	51.4	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	96	608929	50.0	50.6	
33 Acrylonitrile	53	3.256	3.256	0.000	99	3162608	500.0	530.7	
35 Hexane	57	3.381	3.381	0.000	91	736983	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	943938	50.0	49.6	
37 Vinyl acetate	43	3.629	3.629	0.000	97	2559656	100.0	110.1	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	90	631677	50.0	52.4	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	76	661977	50.0	49.0	
43 2-Butanone (MEK)	43	4.085	4.085	0.000	99	2026410	250.0	269.1	
48 Chlorobromomethane	128	4.262	4.262	0.000	86	374898	50.0	48.9	
49 Tetrahydrofuran	42	4.272	4.272	0.000	83	523557	100.0	89.7	
50 Chloroform	83	4.324	4.324	0.000	94	1028692	50.0	47.7	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	97	856759	50.0	52.4	
52 Cyclohexane	56	4.427	4.427	0.000	88	860590	50.0	51.7	
55 Carbon tetrachloride	117	4.531	4.531	0.000	96	757571	50.0	53.6	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	94	769187	50.0	52.0	
57 Benzene	78	4.707	4.707	0.000	96	2149706	50.0	51.0	
53 Isobutyl alcohol	43	4.718	4.718	0.000	92	1163430	1250.0	1441.6	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	98	804922	50.0	49.8	
59 n-Heptane	43	4.842	4.842	0.000	88	697819	50.0	50.6	
62 Trichloroethene	95	5.194	5.194	0.000	96	618897	50.0	51.1	
64 Methylcyclohexane	83	5.298	5.298	0.000	87	1018913	50.0	53.5	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	92	494574	50.0	51.3	
66 1,4-Dioxane	88	5.505	5.505	0.000	40	215038	1000.0	1010.0	
67 Dibromomethane	93	5.505	5.505	0.000	92	417433	50.0	51.8	
68 Dichlorobromomethane	83	5.619	5.619	0.000	99	725095	50.0	53.1	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	93	370934	50.0	56.1	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	95	821681	50.0	55.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	3827918	250.0	271.8	
74 Toluene	92	6.158	6.158	0.000	98	1327782	50.0	50.4	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	95	739668	50.0	54.7	
75 Ethyl methacrylate	69	6.386	6.386	0.000	87	714576	50.0	54.8	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	91	423409	50.0	51.4	
81 Tetrachloroethene	166	6.573	6.573	0.000	98	636574	50.0	50.9	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	89	827361	50.0	50.8	
80 2-Hexanone	43	6.676	6.676	0.000	96	2552047	250.0	267.1	
83 Chlorodibromomethane	129	6.821	6.821	0.000	89	581236	50.0	54.2	
84 Ethylene Dibromide	107	6.904	6.904	0.000	98	572652	50.0	52.7	
87 Chlorobenzene	112	7.267	7.256	0.011	97	1543235	50.0	50.1	
88 Ethylbenzene	91	7.319	7.319	0.000	98	2529668	50.0	52.1	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	94	575272	50.0	54.1	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	968845	50.0	51.3	
91 o-Xylene	106	7.733	7.733	0.000	97	990228	50.0	51.9	
92 Styrene	104	7.754	7.754	0.000	95	1583476	50.0	55.6	
95 Bromoform	173	7.951	7.951	0.000	96	407055	50.0	55.0	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	2652070	50.0	53.2	
101 Bromobenzene	156	8.303	8.303	0.000	89	683326	50.0	51.4	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	96	809007	50.0	50.8	
99 N-Propylbenzene	91	8.345	8.345	0.000	99	3110458	50.0	52.4	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	87	277937	50.0	49.4	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	73	214566	50.0	53.4	
103 2-Chlorotoluene	126	8.438	8.438	0.000	98	653655	50.0	51.5	
102 1,3,5-Trimethylbenzene	105	8.479	8.490	-0.011	95	2221138	50.0	53.2	
105 4-Chlorotoluene	126	8.531	8.531	0.000	97	653602	50.0	50.9	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	507899	50.0	54.6	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	95	2267429	50.0	53.3	

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	8.925	8.925	0.000	94	2922923	50.0	55.0	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	2539169	50.0	54.7	
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	99	1298489	50.0	50.0	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	96	1307306	50.0	49.2	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	2253715	50.0	52.8	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	98	1341804	50.0	50.0	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	89	185365	50.0	51.7	
119 1,2,4-Trichlorobenzene	180	10.770	10.770	0.000	94	1067473	50.0	51.7	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	98	480124	50.0	52.6	
121 Naphthalene	128	10.977	10.977	0.000	96	3424777	50.0	54.1	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	1055457	50.0	51.7	
S 126 1,3-Dichloropropene, Total	1				0			109.9	
S 125 1,2-Dichloroethene, Total	1				0			99.6	
S 123 Total BTEX	1				0			256.8	
S 124 Xylenes, Total	1				0			103.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00198	Amount Added: 25.00	Units: uL		
GAS CORP mix_00427	Amount Added: 25.00	Units: uL		
C_8260_IS_00150	Amount Added: 2.00	Units: uL	Run Reagent	
C_8260_Surr_00167	Amount Added: 2.00	Units: uL	Run Reagent	

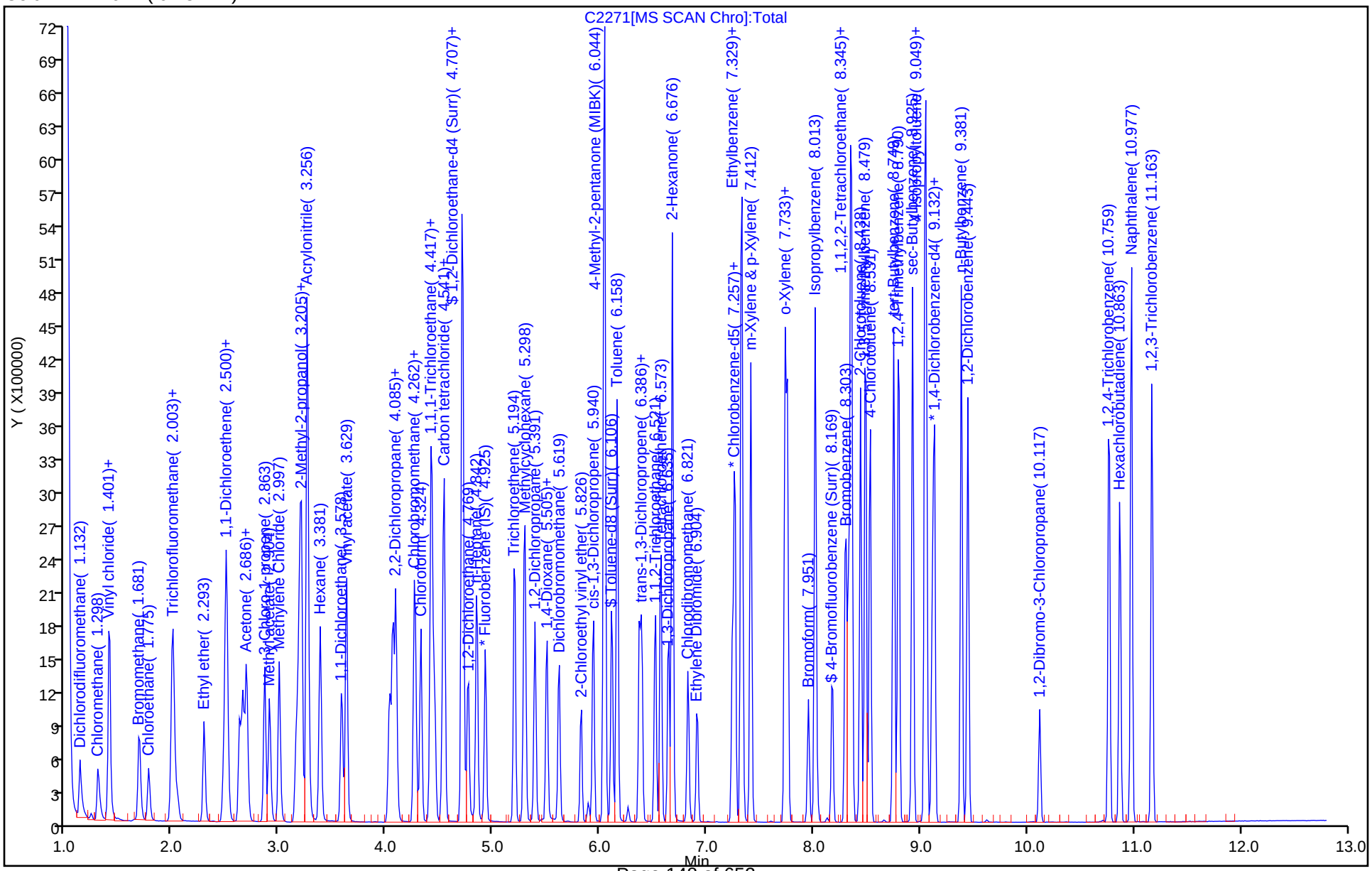
Report Date: 19-Nov-2020 12:04:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2271.D

Injection Date:	18-Nov-2020 17:47:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC 6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

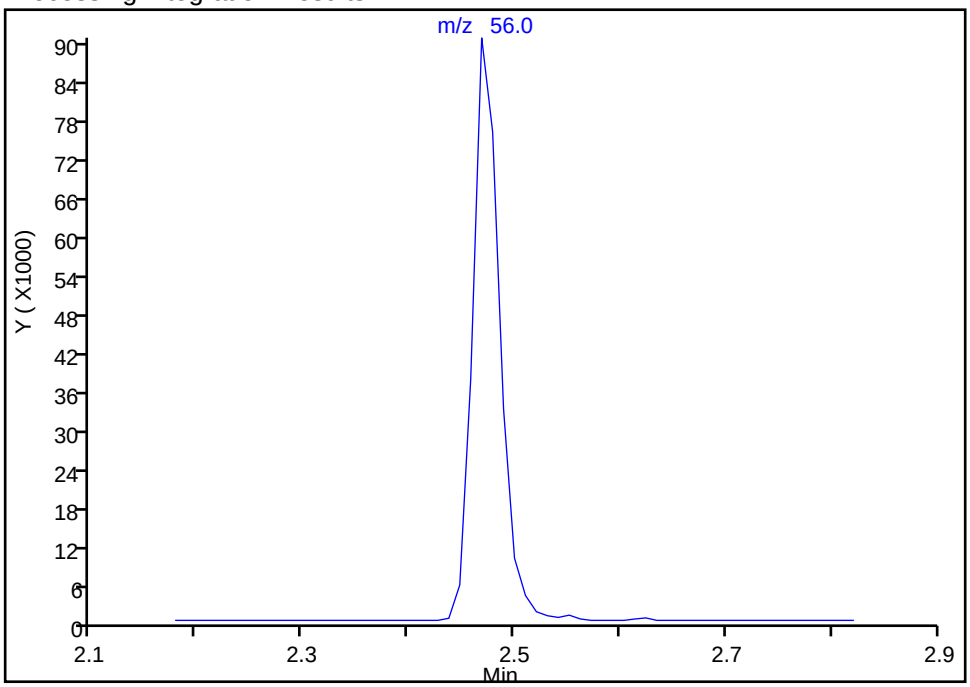
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2271.D
Injection Date: 18-Nov-2020 17:47:30 Instrument ID: HP5973C
Lims ID: IC 6
Client ID:
Operator ID: RF ALS Bottle#: 10 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

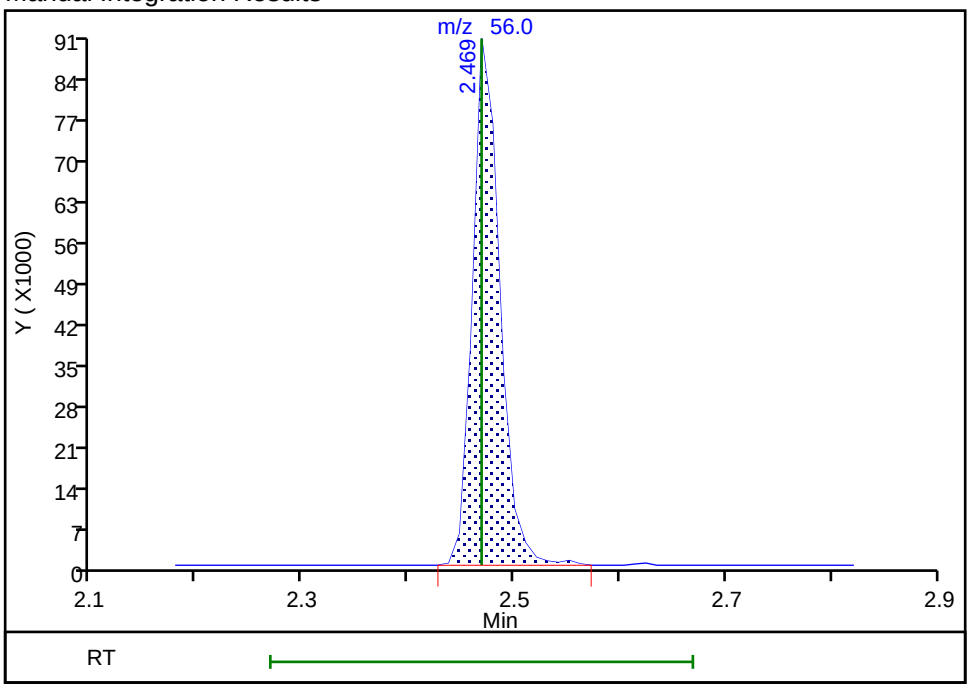
Not Detected
Expected RT: 2.47

Processing Integration Results



Manual Integration Results

RT: 2.47
Area: 161955
Amount: 261.6823
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:15:52
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2272.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 18-Nov-2020 18:12:30 ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 7
Misc. Info.: 480-0095057-020
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Nov-2020 12:04:10 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: farrellr Date: 18-Nov-2020 20:18:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	203089	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	393310	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	407575	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	94	327907	25.0	23.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	98	172948	25.0	22.6	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	1104636	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	93	382857	25.0	26.7	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	1347540	100.0	111.1	
12 Chloromethane	50	1.298	1.308	-0.010	99	1155002	100.0	97.4	
13 Vinyl chloride	62	1.401	1.401	0.000	98	1245185	100.0	105.0	
151 Butadiene	54	1.401	1.412	-0.011	91	1098185	100.0	100.5	
14 Bromomethane	94	1.692	1.692	0.000	92	1017851	100.0	93.7	
15 Chloroethane	64	1.775	1.774	0.001	100	770595	100.0	93.4	
16 Dichlorofluoromethane	67	2.003	2.002	0.001	95	1953918	100.0	101.3	
17 Trichlorofluoromethane	101	2.003	2.002	0.001	83	2103464	100.0	107.0	
18 Ethyl ether	59	2.293	2.293	0.000	88	862501	100.0	91.0	
20 Acrolein	56	2.469	2.469	0.000	99	241345	500.0	388.8	
22 1,1-Dichloroethene	96	2.500	2.500	0.000	98	1043809	100.0	97.8	
21 112TCTFE	101	2.500	2.500	0.000	93	1208962	100.0	101.5	
23 Acetone	43	2.624	2.624	0.000	100	1416096	500.0	269.3	
25 Iodomethane	142	2.655	2.655	0.000	99	2083024	100.0	99.1	
26 Carbon disulfide	76	2.686	2.697	-0.011	100	3561979	100.0	101.8	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	85	1398365	100.0	99.9	
27 Methyl acetate	43	2.904	2.904	0.000	97	1579810	200.0	142.5	
30 Methylene Chloride	84	2.997	2.997	0.000	89	1142845	100.0	98.0	
31 2-Methyl-2-propanol	59	3.153	3.163	-0.010	99	1330064	1000.0	509.3	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	94	3338648	100.0	96.4	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	96	1210847	100.0	100.4	
33 Acrylonitrile	53	3.256	3.256	0.000	98	4111531	1000.0	687.9	
35 Hexane	57	3.381	3.381	0.000	92	1547025	100.0	106.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	1876974	100.0	98.3	
37 Vinyl acetate	43	3.630	3.629	0.001	97	4768594	200.0	204.5	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	90	1343630	100.0	111.2	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	76	1287821	100.0	95.0	
43 2-Butanone (MEK)	43	4.085	4.085	0.000	99	2847875	500.0	377.1	
48 Chlorobromomethane	128	4.262	4.262	0.000	86	698462	100.0	90.8	
49 Tetrahydrofuran	42	4.272	4.272	0.000	84	695870	200.0	118.8	
50 Chloroform	83	4.324	4.324	0.000	94	2009452	100.0	93.0	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	98	1738544	100.0	106.0	
52 Cyclohexane	56	4.427	4.427	0.000	89	1748623	100.0	104.8	
55 Carbon tetrachloride	117	4.531	4.531	0.000	96	1573909	100.0	111.1	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	95	1549796	100.0	104.5	
57 Benzene	78	4.707	4.707	0.000	96	4282126	100.0	101.3	
53 Isobutyl alcohol	43	4.707	4.718	-0.011	90	1196455	2500.0	1478.3	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	98	1510780	100.0	93.1	
59 n-Heptane	43	4.842	4.842	0.000	87	1679743	100.0	121.5	M
62 Trichloroethene	95	5.194	5.194	0.000	95	1230783	100.0	101.3	
64 Methylcyclohexane	83	5.298	5.298	0.000	87	2023246	100.0	105.9	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	93	979626	100.0	101.2	
67 Dibromomethane	93	5.505	5.505	0.000	92	784984	100.0	97.0	
66 1,4-Dioxane	88	5.495	5.505	-0.010	86	322919	2000.0	1511.6	
68 Dichlorobromomethane	83	5.619	5.619	0.000	99	1461972	100.0	106.8	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	93	736627	100.0	111.0	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	95	1735168	100.0	116.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	6321038	500.0	447.2	
74 Toluene	92	6.158	6.158	0.000	98	2711951	100.0	102.6	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	95	1635025	100.0	120.5	
75 Ethyl methacrylate	69	6.386	6.386	0.000	86	1525501	100.0	116.5	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	91	873290	100.0	105.6	
81 Tetrachloroethene	166	6.573	6.573	0.000	98	1314971	100.0	104.9	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	89	1718421	100.0	105.2	
80 2-Hexanone	43	6.676	6.676	0.000	96	5126700	500.0	534.8	
83 Chlorodibromomethane	129	6.821	6.821	0.000	89	1267458	100.0	117.8	
84 Ethylene Dibromide	107	6.915	6.904	0.011	98	1217435	100.0	111.6	
87 Chlorobenzene	112	7.267	7.256	0.011	97	3285207	100.0	106.2	
88 Ethylbenzene	91	7.319	7.319	0.000	98	5257654	100.0	108.0	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	94	1196589	100.0	112.1	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	2023434	100.0	106.8	
91 o-Xylene	106	7.733	7.733	0.000	97	2044862	100.0	106.8	
92 Styrene	104	7.754	7.754	0.000	95	3382734	100.0	118.3	
95 Bromoform	173	7.951	7.951	0.000	97	923462	100.0	124.4	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	5493116	100.0	115.7	
101 Bromobenzene	156	8.303	8.303	0.000	89	1443347	100.0	113.8	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	96	1681894	100.0	110.8	
99 N-Propylbenzene	91	8.345	8.345	0.000	99	6492227	100.0	114.8	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	86	561736	100.0	104.7	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	73	451869	100.0	118.0	
103 2-Chlorotoluene	126	8.438	8.438	0.000	98	1344508	100.0	111.1	
102 1,3,5-Trimethylbenzene	105	8.490	8.490	0.000	95	4622402	100.0	116.2	
105 4-Chlorotoluene	126	8.531	8.531	0.000	97	1352277	100.0	110.6	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	1079170	100.0	121.6	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	97	4686412	100.0	115.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.925	8.925	0.000	94	6136774	100.0	121.2	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	5371774	100.0	121.5	
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	99	2713961	100.0	109.8	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	96	2733581	100.0	107.9	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	4744770	100.0	116.6	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	98	2805654	100.0	109.8	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	90	390373	100.0	114.2	
119 1,2,4-Trichlorobenzene	180	10.770	10.770	0.000	94	2208002	100.0	112.2	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	98	1017907	100.0	117.0	
121 Naphthalene	128	10.977	10.977	0.000	96	7028598	100.0	116.5	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	2203484	100.0	113.2	
S 126 1,3-Dichloropropene, Total	1				0			236.7	
S 125 1,2-Dichloroethene, Total	1				0			195.4	
S 123 Total BTEX	1				0			525.6	
S 124 Xylenes, Total	1				0			213.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00198	Amount Added:	50.00	Units: uL	
GAS CORP mix_00427	Amount Added:	50.00	Units: uL	
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent

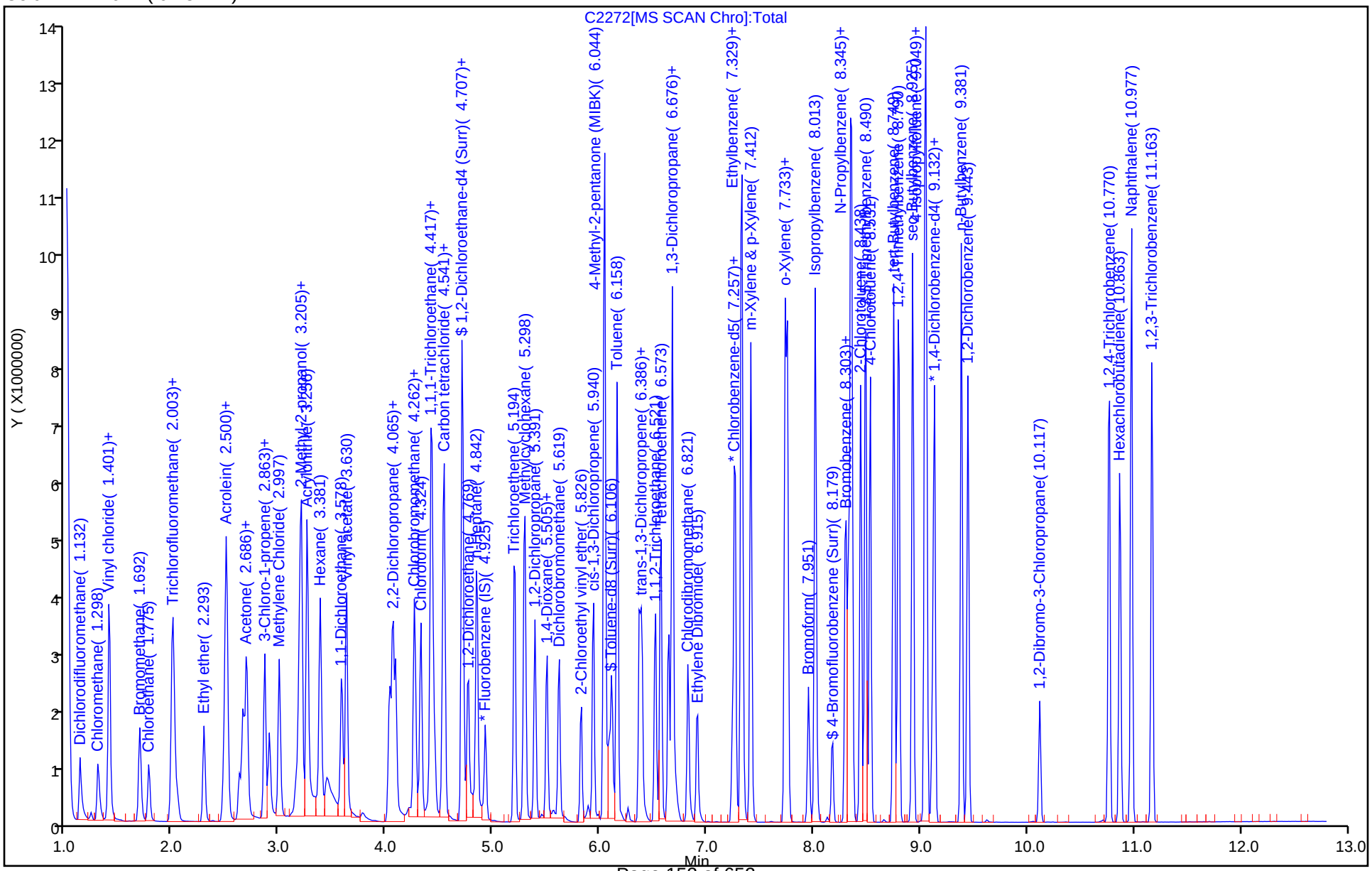
Report Date: 19-Nov-2020 12:04:14 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2272.D

Injection Date:	18-Nov-2020 18:12:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	IC 7			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

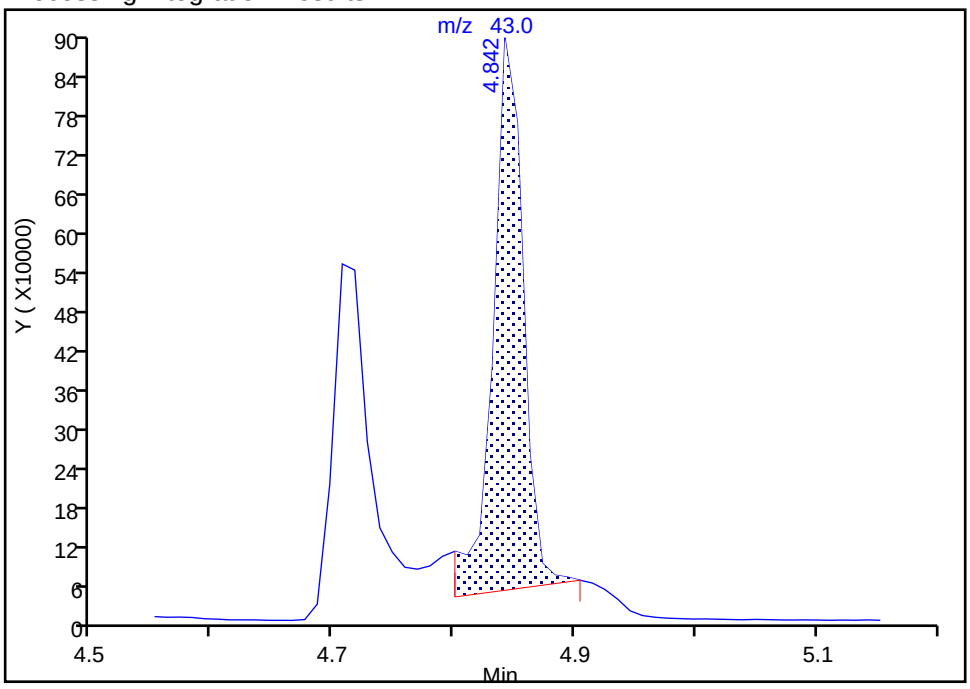
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2272.D
Injection Date: 18-Nov-2020 18:12:30 Instrument ID: HP5973C
Lims ID: IC 7
Client ID:
Operator ID: RF ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

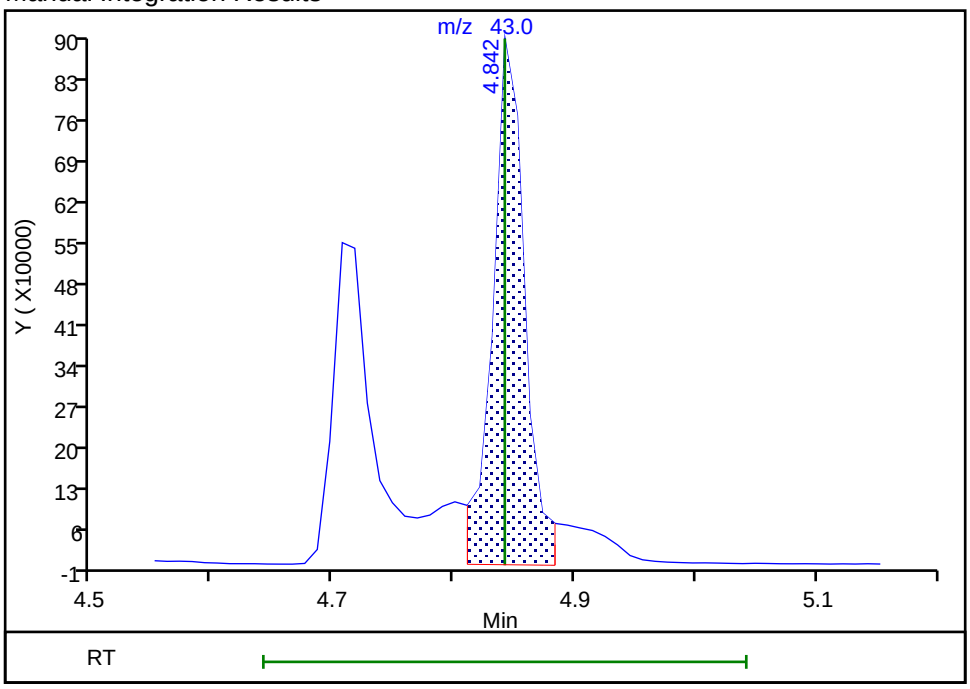
Processing Integration Results

RT: 4.84
Area: 1485680
Amount: 109.4110
Amount Units: ug/L



Manual Integration Results

RT: 4.84
Area: 1679743
Amount: 121.5314
Amount Units: ug/L



Reviewer: farrellr, 18-Nov-2020 20:22:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

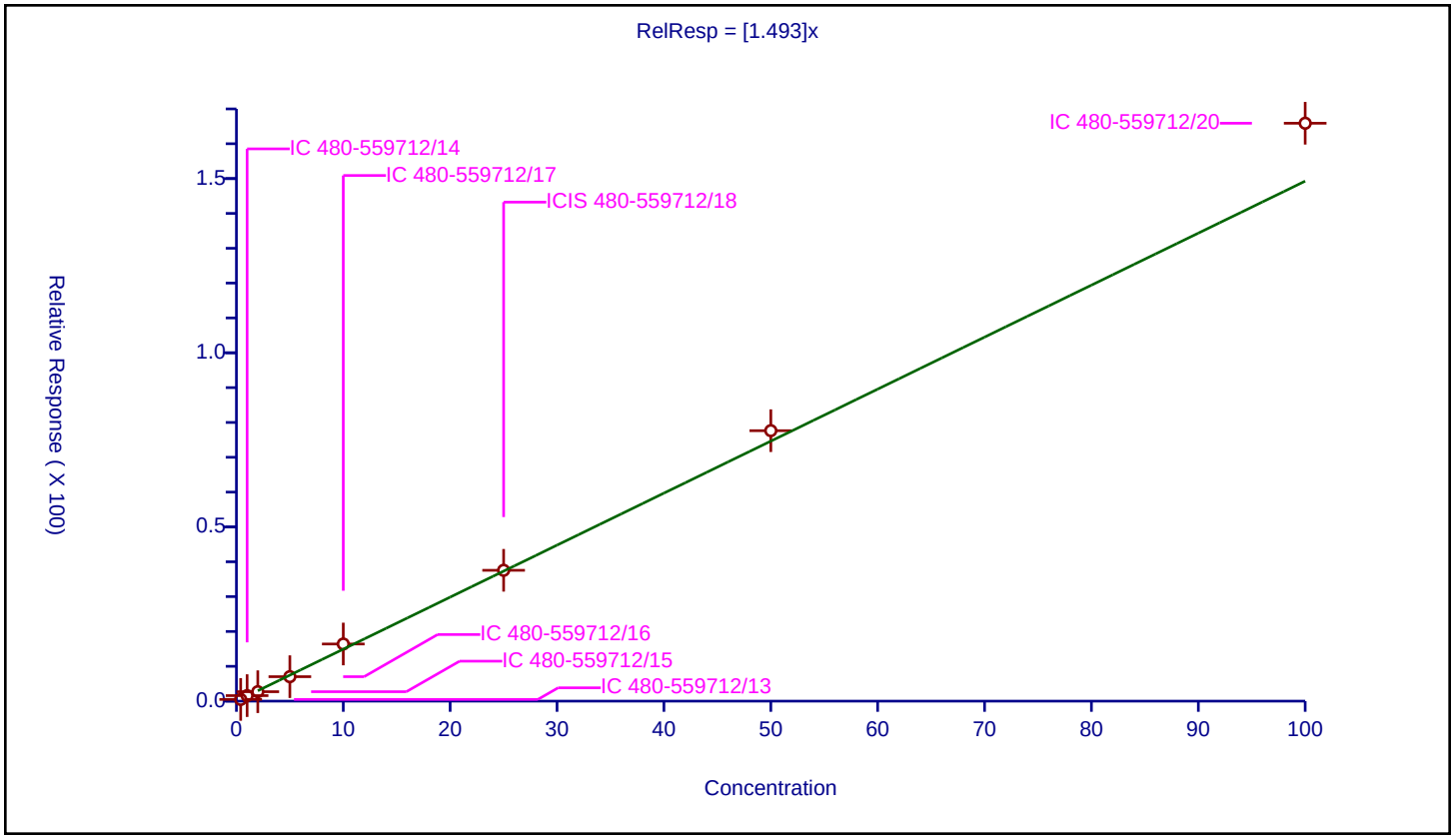
Curve Coefficients

Intercept:	0
Slope:	1.493

Error Coefficients

Standard Error:	576000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.496321	25.0	197050.0	1.240802	Y
2	IC 480-559712/14	1.0	1.586439	25.0	191892.0	1.586439	Y
3	IC 480-559712/15	2.0	2.711184	25.0	190166.0	1.355592	Y
4	IC 480-559712/16	5.0	7.021111	25.0	193260.0	1.404222	Y
5	IC 480-559712/17	10.0	16.404167	25.0	196921.0	1.640417	Y
6	ICIS 480-559712/18	25.0	37.554285	25.0	200563.0	1.502171	Y
7	IC 480-559712/19	50.0	77.639499	25.0	202510.0	1.55279	Y
8	IC 480-559712/20	100.0	165.880476	25.0	203089.0	1.658805	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

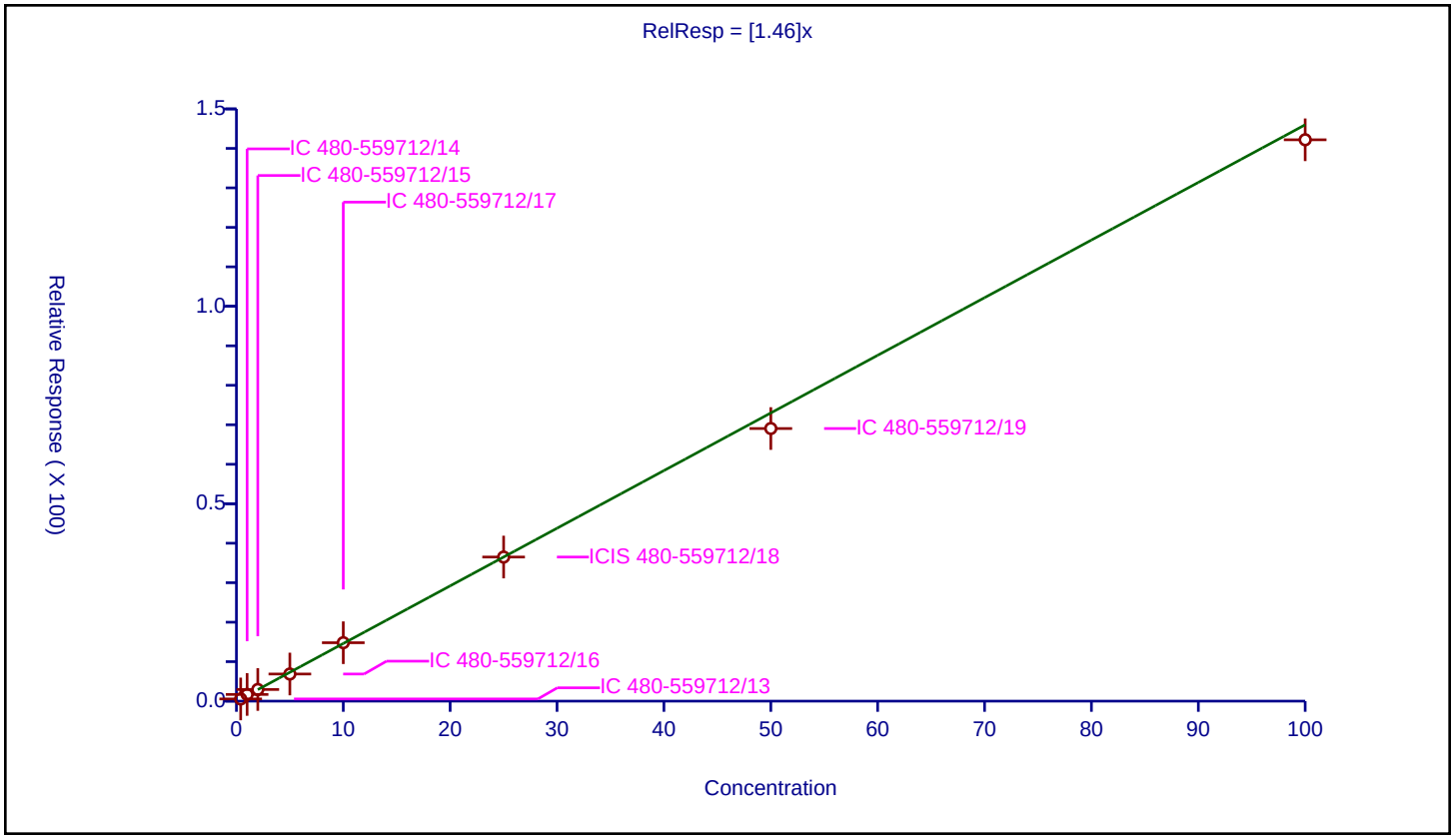
Curve Coefficients

Intercept:	0
Slope:	1.46

Error Coefficients

Standard Error:	500000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.554047	25.0	197050.0	1.385118	Y
2	IC 480-559712/14	1.0	1.699263	25.0	191892.0	1.699263	Y
3	IC 480-559712/15	2.0	2.953472	25.0	190166.0	1.476736	Y
4	IC 480-559712/16	5.0	6.870925	25.0	193260.0	1.374185	Y
5	IC 480-559712/17	10.0	14.802383	25.0	196921.0	1.480238	Y
6	ICIS 480-559712/18	25.0	36.494019	25.0	200563.0	1.459761	Y
7	IC 480-559712/19	50.0	69.054491	25.0	202510.0	1.38109	Y
8	IC 480-559712/20	100.0	142.179291	25.0	203089.0	1.421793	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

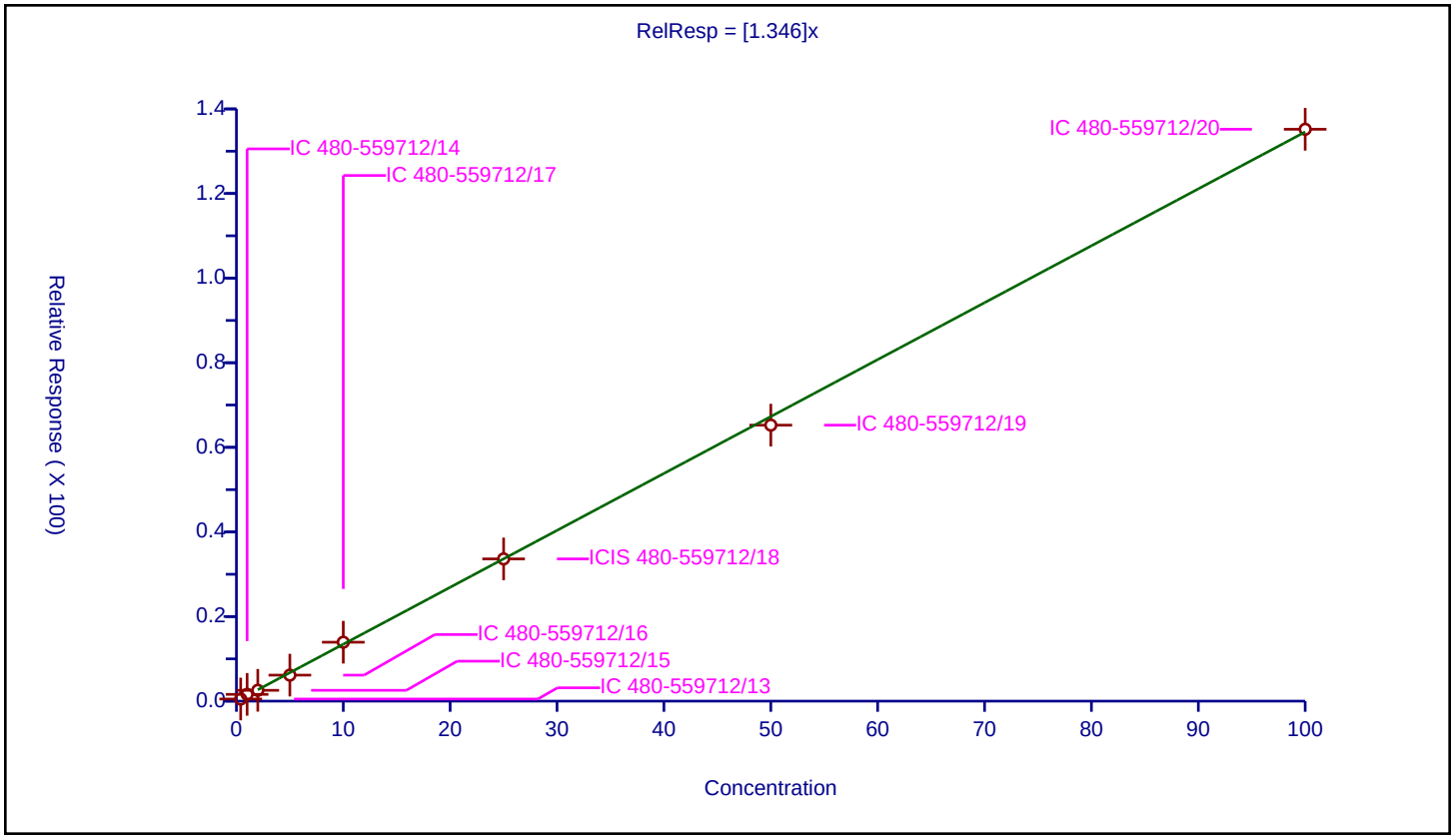
Curve Coefficients

Intercept:	0
Slope:	1.346

Error Coefficients

Standard Error:	474000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.499112	25.0	197050.0	1.24778	Y
2	IC 480-559712/14	1.0	1.611193	25.0	191892.0	1.611193	Y
3	IC 480-559712/15	2.0	2.561578	25.0	190166.0	1.280789	Y
4	IC 480-559712/16	5.0	6.152463	25.0	193260.0	1.230493	Y
5	IC 480-559712/17	10.0	13.927539	25.0	196921.0	1.392754	Y
6	ICIS 480-559712/18	25.0	33.623226	25.0	200563.0	1.344929	Y
7	IC 480-559712/19	50.0	65.249124	25.0	202510.0	1.304982	Y
8	IC 480-559712/20	100.0	135.18519	25.0	203089.0	1.351852	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

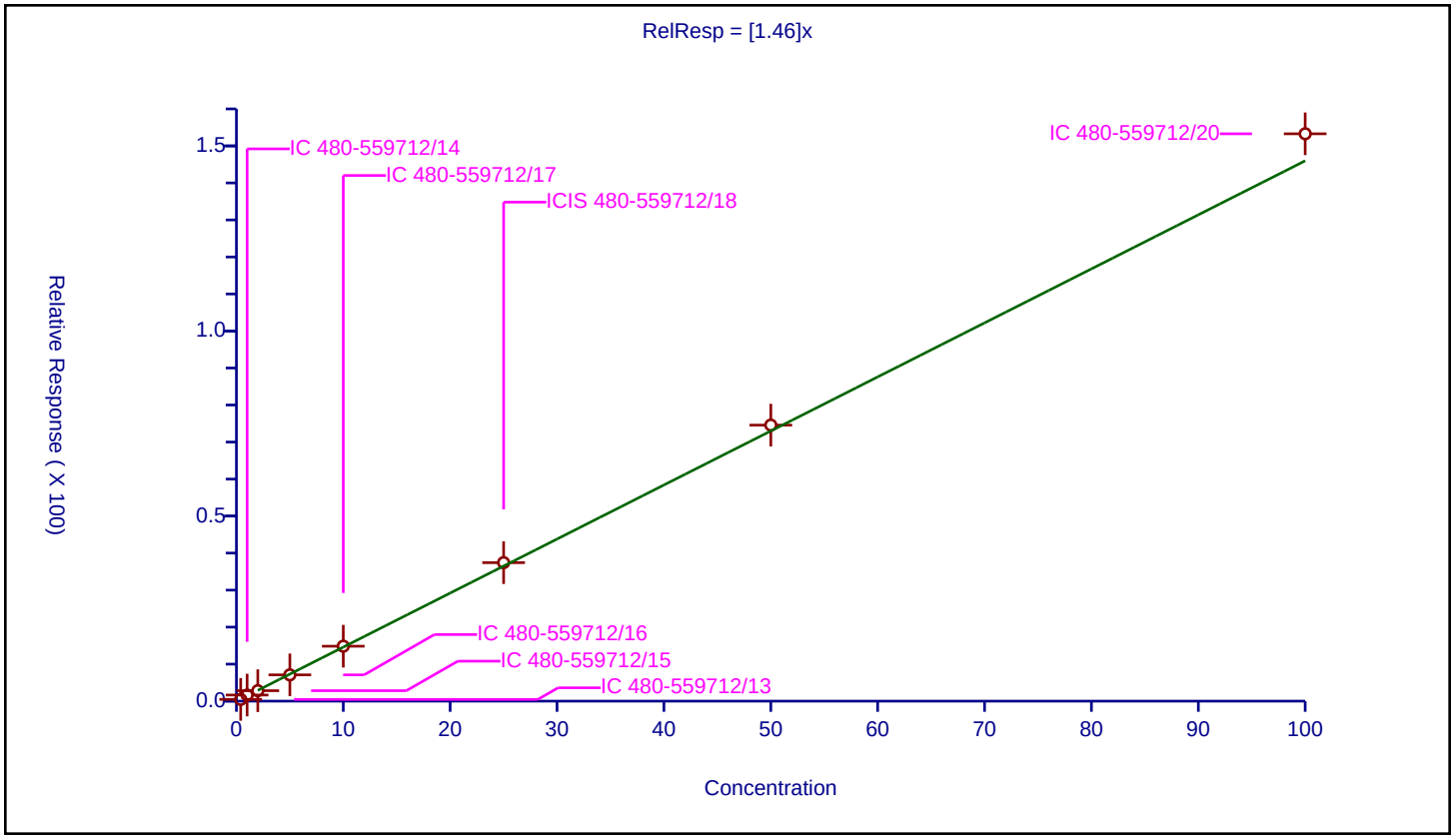
Curve Coefficients

Intercept:	0
Slope:	1.46

Error Coefficients

Standard Error:	538000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.476275	25.0	197050.0	1.190688	Y
2	IC 480-559712/14	1.0	1.649756	25.0	191892.0	1.649756	Y
3	IC 480-559712/15	2.0	2.824769	25.0	190166.0	1.412384	Y
4	IC 480-559712/16	5.0	7.099374	25.0	193260.0	1.419875	Y
5	IC 480-559712/17	10.0	14.847325	25.0	196921.0	1.484732	Y
6	ICIS 480-559712/18	25.0	37.419664	25.0	200563.0	1.496787	Y
7	IC 480-559712/19	50.0	74.577552	25.0	202510.0	1.491551	Y
8	IC 480-559712/20	100.0	153.280705	25.0	203089.0	1.532807	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

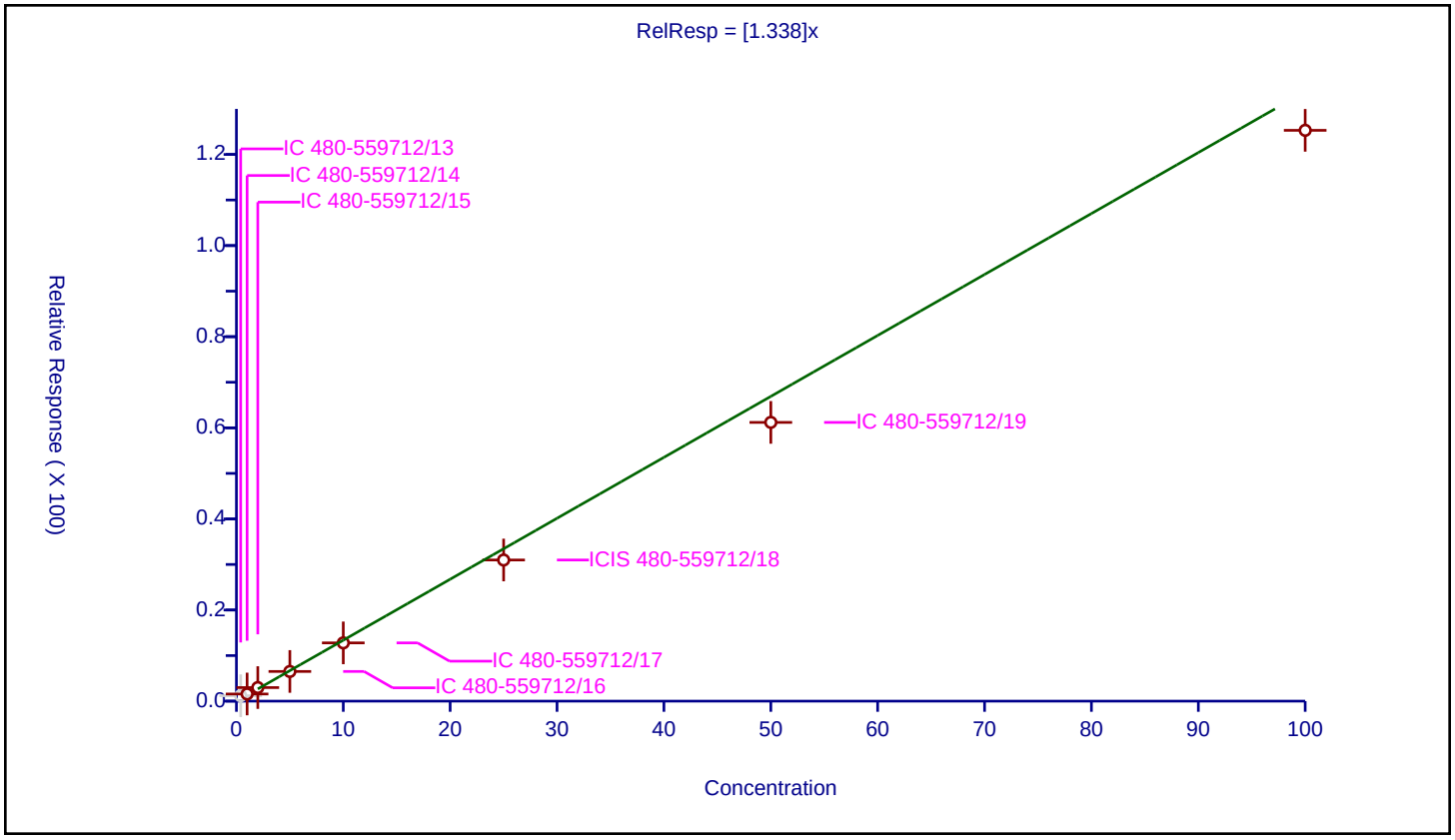
Curve Coefficients

Intercept:	0
Slope:	1.338

Error Coefficients

Standard Error:	475000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.190941	25.0	197050.0	2.977353	N
2	IC 480-559712/14	1.0	1.57732	25.0	191892.0	1.57732	Y
3	IC 480-559712/15	2.0	2.980685	25.0	190166.0	1.490343	Y
4	IC 480-559712/16	5.0	6.512988	25.0	193260.0	1.302598	Y
5	IC 480-559712/17	10.0	12.789012	25.0	196921.0	1.278901	Y
6	ICIS 480-559712/18	25.0	30.980166	25.0	200563.0	1.239207	Y
7	IC 480-559712/19	50.0	61.191793	25.0	202510.0	1.223836	Y
8	IC 480-559712/20	100.0	125.296176	25.0	203089.0	1.252962	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

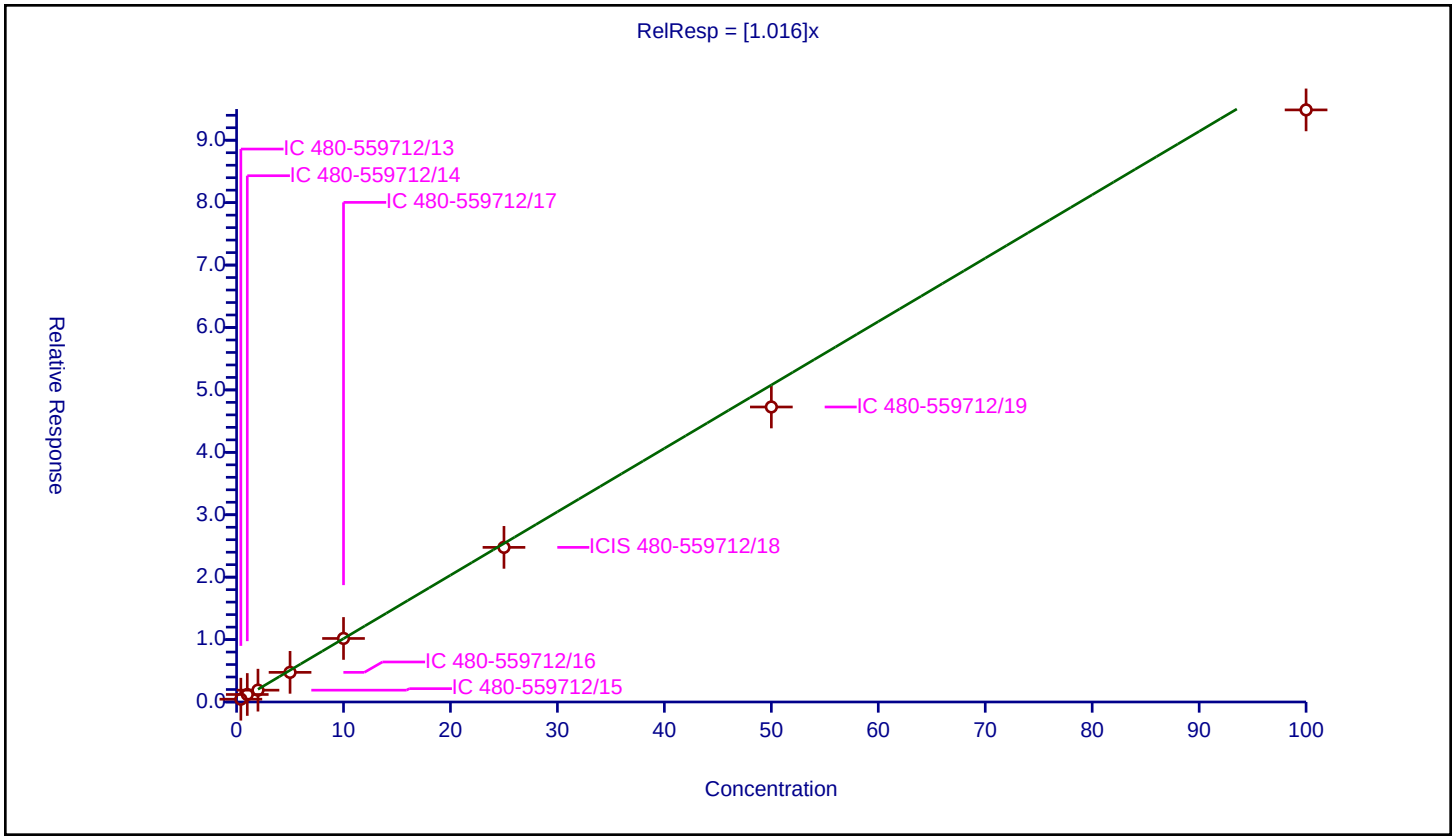
Curve Coefficients

Intercept:	0
Slope:	1.016

Error Coefficients

Standard Error:	335000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.448744	25.0	197050.0	1.12186	Y
2	IC 480-559712/14	1.0	1.202239	25.0	191892.0	1.202239	Y
3	IC 480-559712/15	2.0	1.898867	25.0	190166.0	0.949434	Y
4	IC 480-559712/16	5.0	4.748655	25.0	193260.0	0.949731	Y
5	IC 480-559712/17	10.0	10.18124	25.0	196921.0	1.018124	Y
6	ICIS 480-559712/18	25.0	24.773637	25.0	200563.0	0.990945	Y
7	IC 480-559712/19	50.0	47.265691	25.0	202510.0	0.945314	Y
8	IC 480-559712/20	100.0	94.859274	25.0	203089.0	0.948593	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

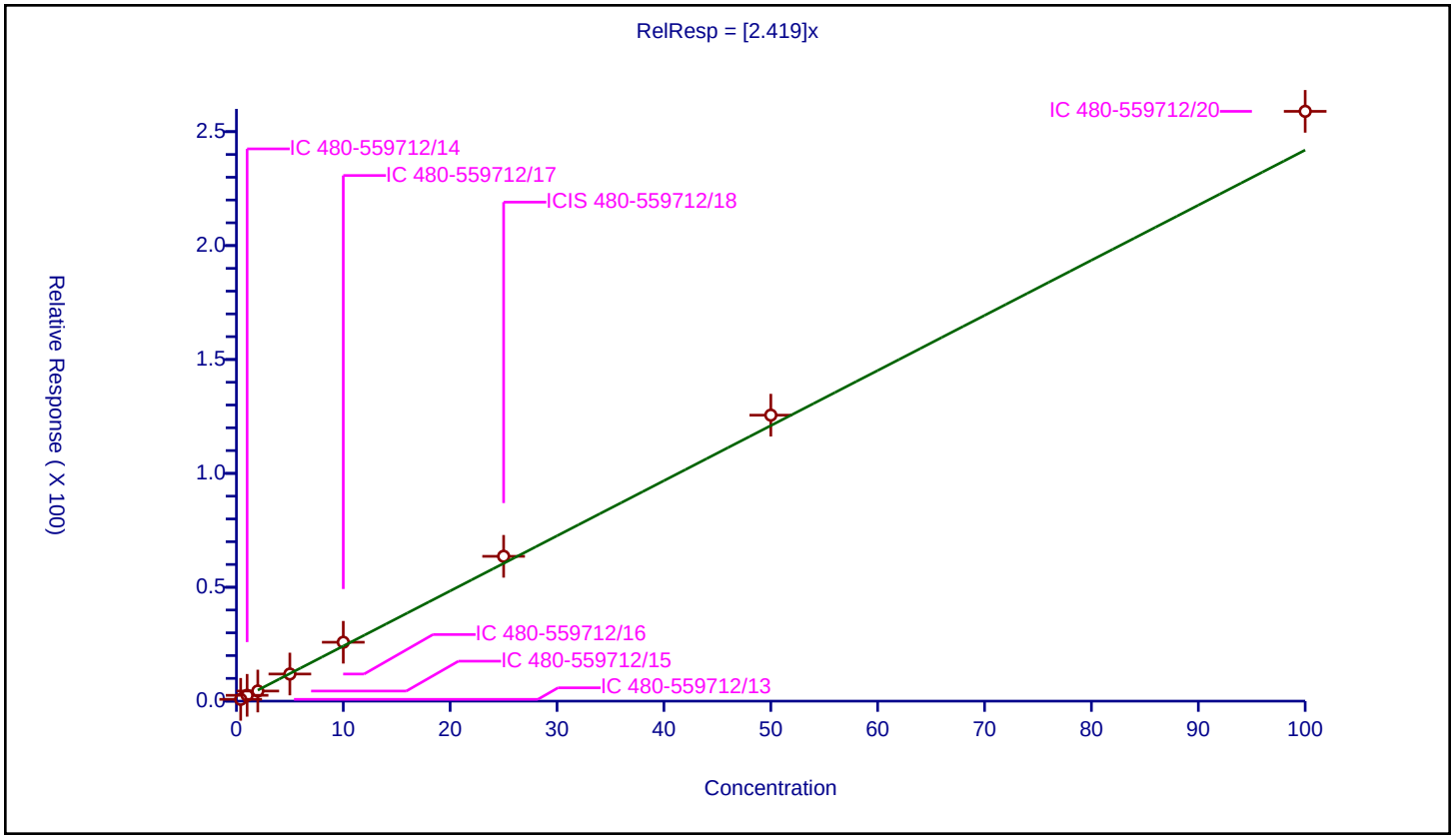
Curve Coefficients

Intercept:	0
Slope:	2.419

Error Coefficients

Standard Error:	908000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.78508	25.0	197050.0	1.9627	Y
2	IC 480-559712/14	1.0	2.555604	25.0	191892.0	2.555604	Y
3	IC 480-559712/15	2.0	4.448745	25.0	190166.0	2.224372	Y
4	IC 480-559712/16	5.0	11.910639	25.0	193260.0	2.382128	Y
5	IC 480-559712/17	10.0	25.855927	25.0	196921.0	2.585593	Y
6	ICIS 480-559712/18	25.0	63.592362	25.0	200563.0	2.543694	Y
7	IC 480-559712/19	50.0	125.563182	25.0	202510.0	2.511264	Y
8	IC 480-559712/20	100.0	258.933768	25.0	203089.0	2.589338	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

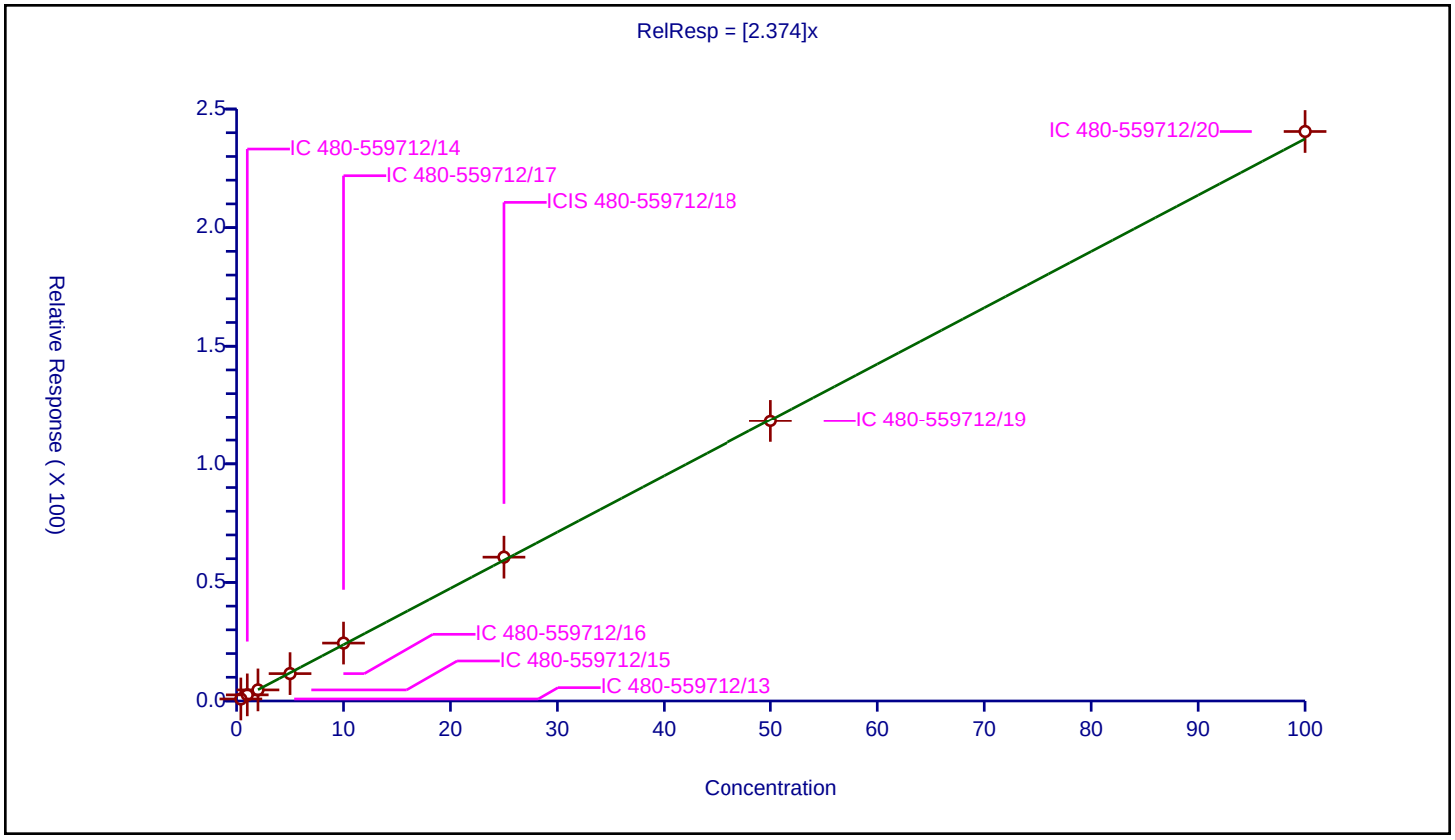
Curve Coefficients

Intercept:	0
Slope:	2.374

Error Coefficients

Standard Error:	847000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.853844	25.0	197050.0	2.134611	Y
2	IC 480-559712/14	1.0	2.578534	25.0	191892.0	2.578534	Y
3	IC 480-559712/15	2.0	4.666449	25.0	190166.0	2.333225	Y
4	IC 480-559712/16	5.0	11.549726	25.0	193260.0	2.309945	Y
5	IC 480-559712/17	10.0	24.411439	25.0	196921.0	2.441144	Y
6	ICIS 480-559712/18	25.0	60.649646	25.0	200563.0	2.425986	Y
7	IC 480-559712/19	50.0	118.301318	25.0	202510.0	2.366026	Y
8	IC 480-559712/20	100.0	240.524844	25.0	203089.0	2.405248	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

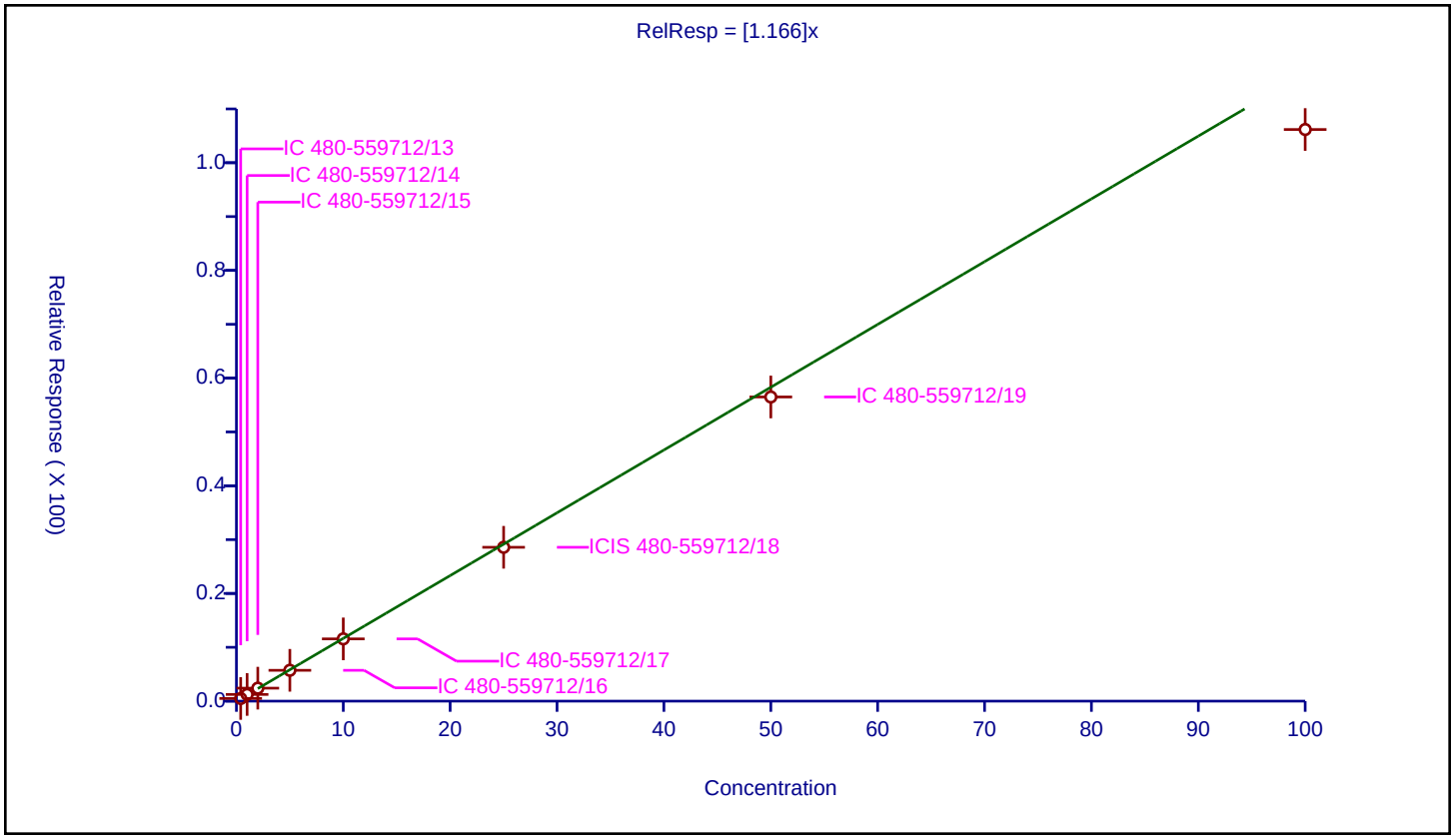
Curve Coefficients

Intercept:	0
Slope:	1.166

Error Coefficients

Standard Error:	381000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.496067	25.0	197050.0	1.240167	Y
2	IC 480-559712/14	1.0	1.246925	25.0	191892.0	1.246925	Y
3	IC 480-559712/15	2.0	2.409211	25.0	190166.0	1.204605	Y
4	IC 480-559712/16	5.0	5.730105	25.0	193260.0	1.146021	Y
5	IC 480-559712/17	10.0	11.565679	25.0	196921.0	1.156568	Y
6	ICIS 480-559712/18	25.0	28.575311	25.0	200563.0	1.143012	Y
7	IC 480-559712/19	50.0	56.494494	25.0	202510.0	1.12989	Y
8	IC 480-559712/20	100.0	106.172786	25.0	203089.0	1.061728	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

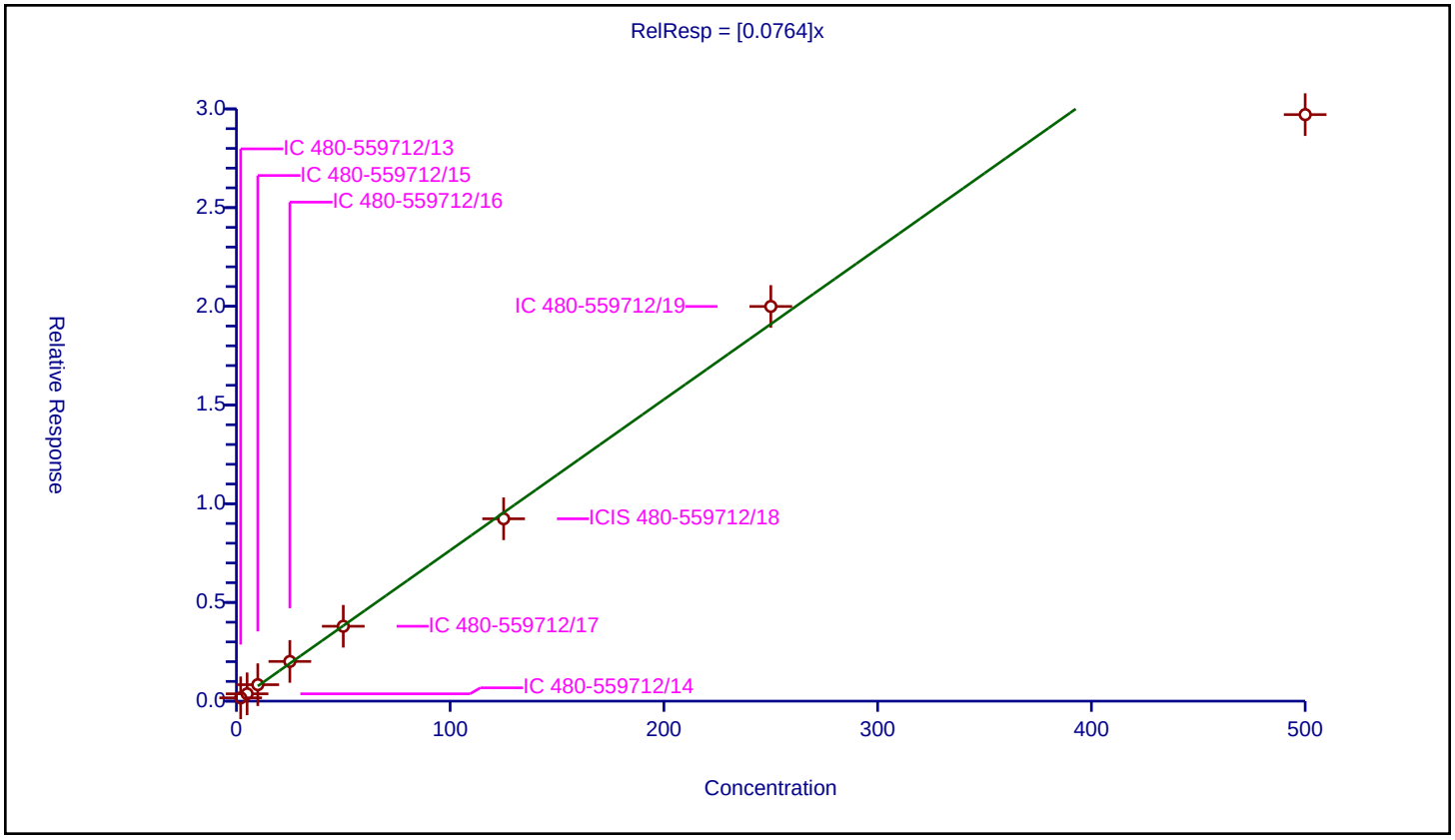
Curve Coefficients

Intercept:	0
Slope:	0.0764

Error Coefficients

Standard Error:	114000
Relative Standard Error:	10.3
Correlation Coefficient:	0.977
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	2.0	0.167724	25.0	197050.0	0.083862	Y
2	IC 480-559712/14	5.0	0.372084	25.0	191892.0	0.074417	Y
3	IC 480-559712/15	10.0	0.833614	25.0	190166.0	0.083361	Y
4	IC 480-559712/16	25.0	2.011151	25.0	193260.0	0.080446	Y
5	IC 480-559712/17	50.0	3.792892	25.0	196921.0	0.075858	Y
6	ICIS 480-559712/18	125.0	9.236499	25.0	200563.0	0.073892	Y
7	IC 480-559712/19	250.0	19.993457	25.0	202510.0	0.079974	Y
8	IC 480-559712/20	500.0	29.709265	25.0	203089.0	0.059419	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

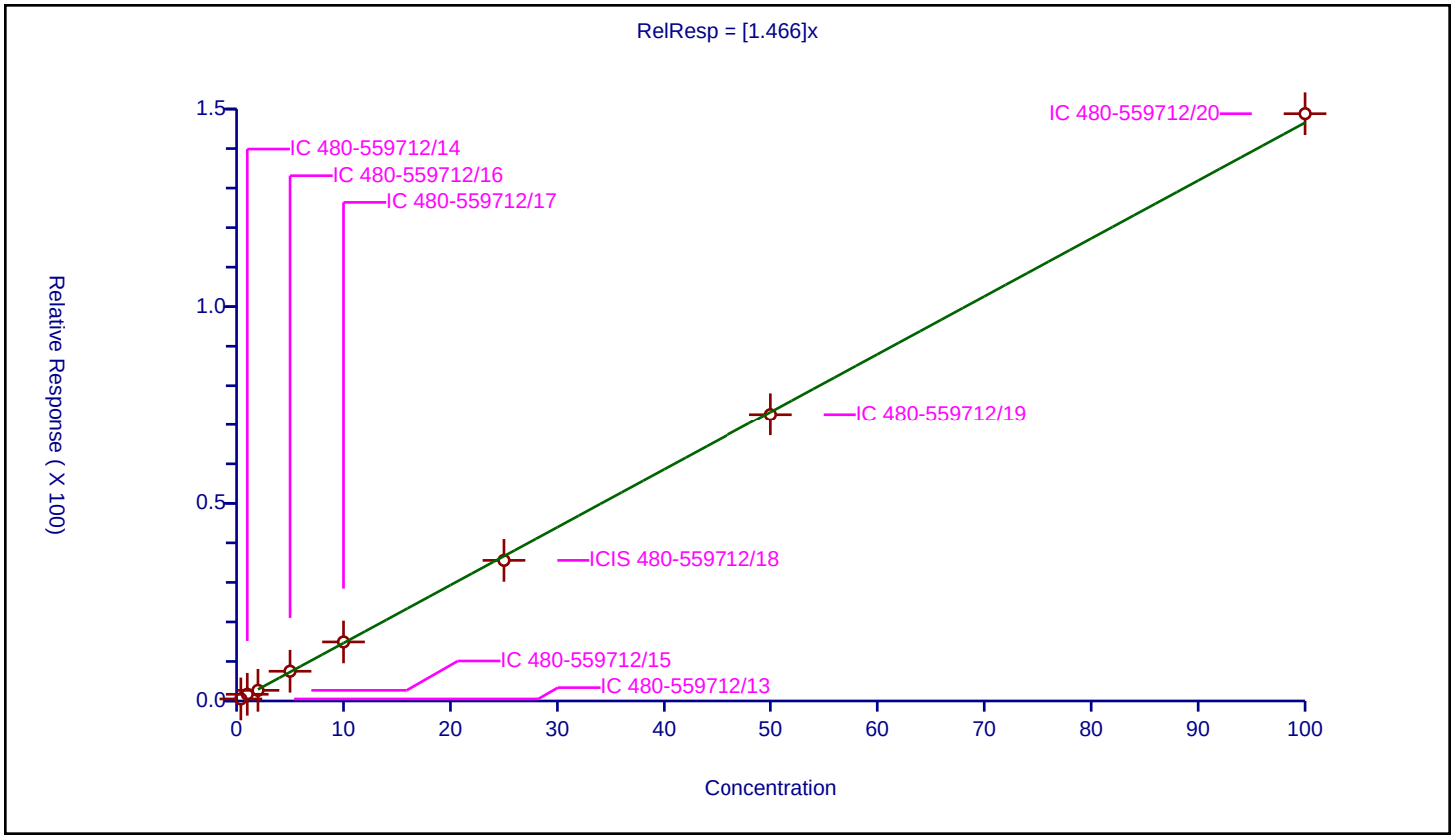
Curve Coefficients

Intercept:	0
Slope:	1.466

Error Coefficients

Standard Error:	522000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.523725	25.0	197050.0	1.309312	Y
2	IC 480-559712/14	1.0	1.703172	25.0	191892.0	1.703172	Y
3	IC 480-559712/15	2.0	2.694488	25.0	190166.0	1.347244	Y
4	IC 480-559712/16	5.0	7.532469	25.0	193260.0	1.506494	Y
5	IC 480-559712/17	10.0	14.93962	25.0	196921.0	1.493962	Y
6	ICIS 480-559712/18	25.0	35.57548	25.0	200563.0	1.423019	Y
7	IC 480-559712/19	50.0	72.670732	25.0	202510.0	1.453415	Y
8	IC 480-559712/20	100.0	148.821699	25.0	203089.0	1.488217	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

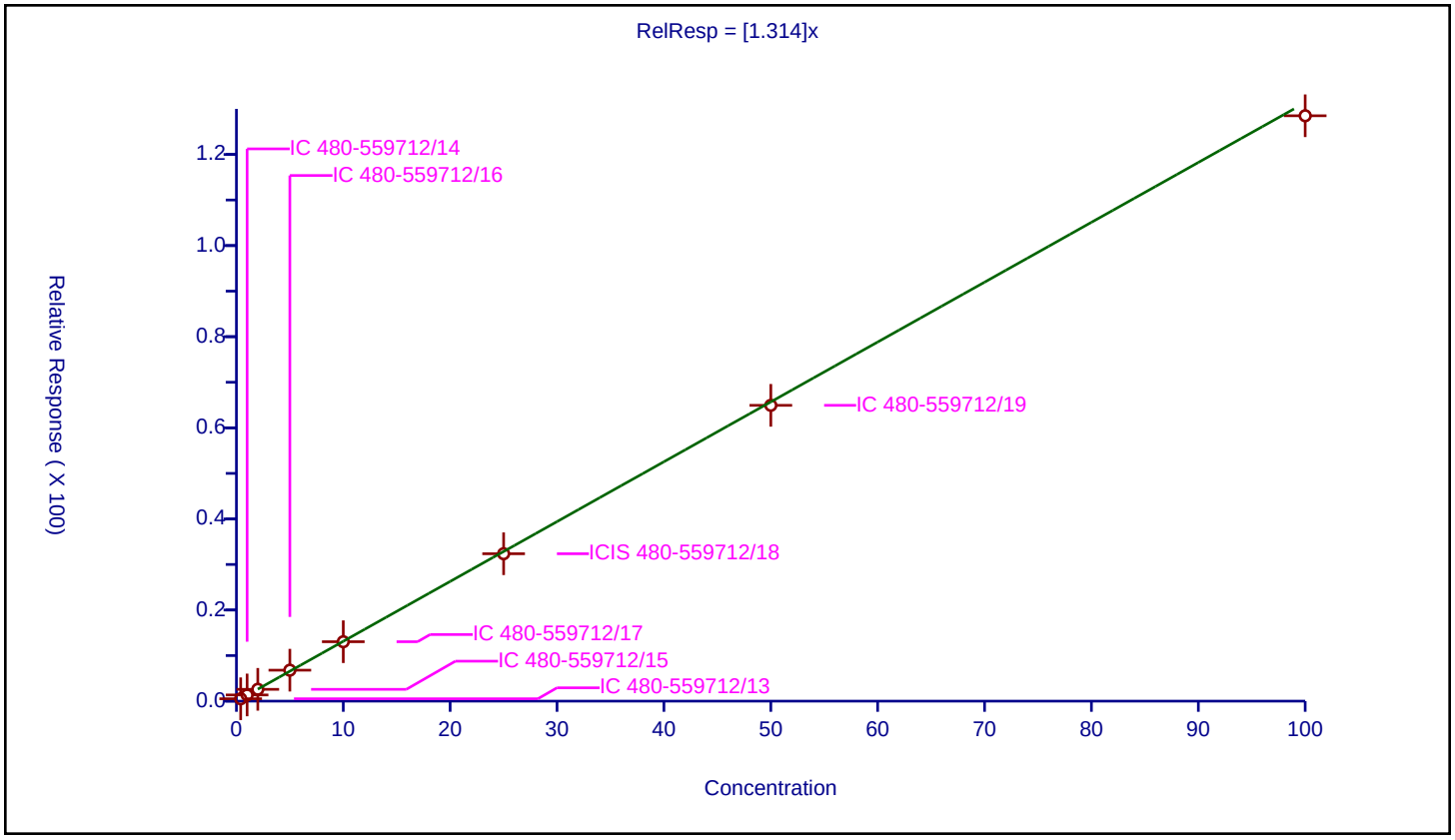
Curve Coefficients

Intercept:	0
Slope:	1.314

Error Coefficients

Standard Error:	455000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.52271	25.0	197050.0	1.306775	Y
2	IC 480-559712/14	1.0	1.362094	25.0	191892.0	1.362094	Y
3	IC 480-559712/15	2.0	2.599702	25.0	190166.0	1.299851	Y
4	IC 480-559712/16	5.0	6.797578	25.0	193260.0	1.359516	Y
5	IC 480-559712/17	10.0	13.042921	25.0	196921.0	1.304292	Y
6	ICIS 480-559712/18	25.0	32.358536	25.0	200563.0	1.294341	Y
7	IC 480-559712/19	50.0	64.93383	25.0	202510.0	1.298677	Y
8	IC 480-559712/20	100.0	128.491573	25.0	203089.0	1.284916	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

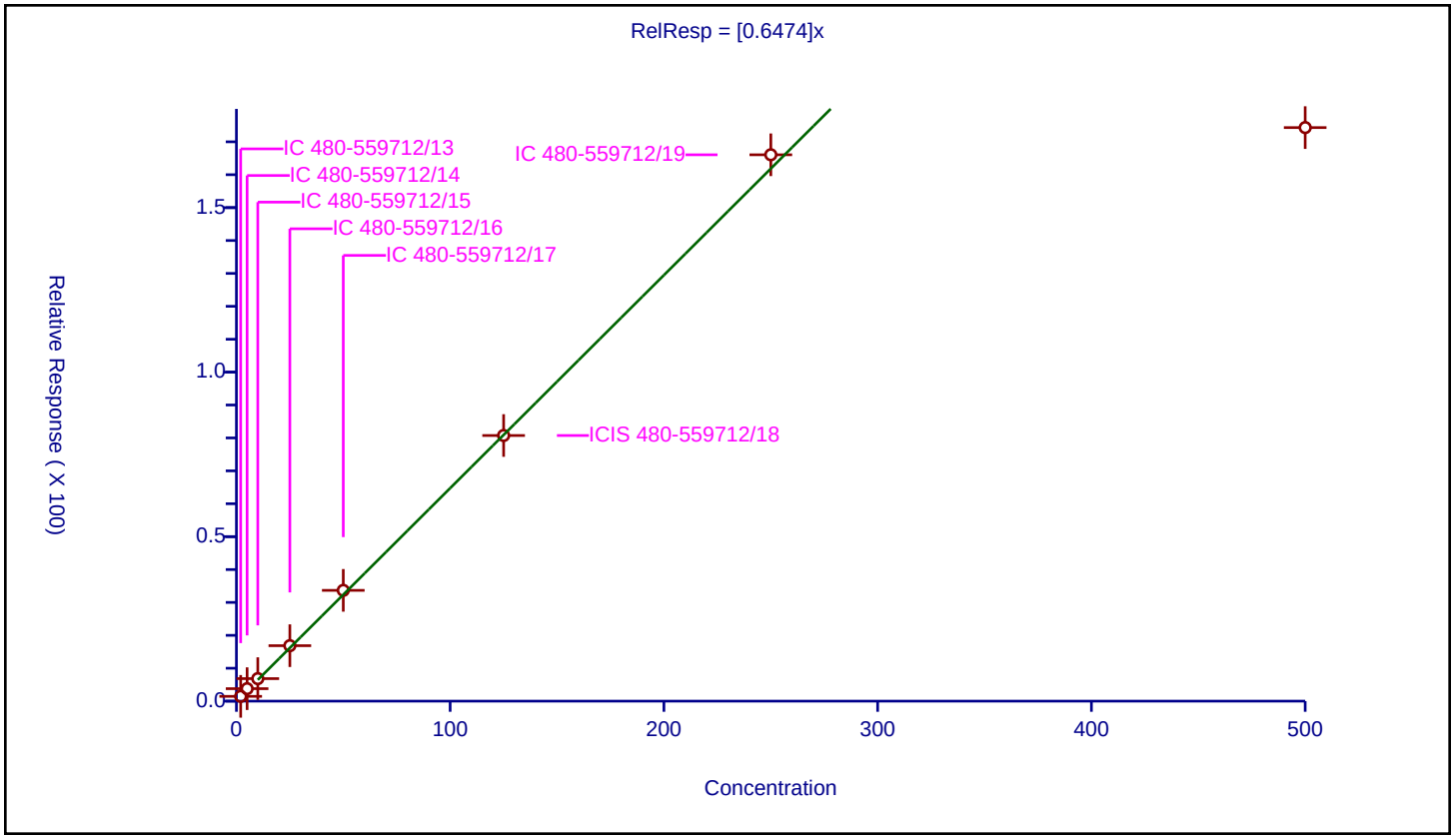
Curve Coefficients

Intercept:	0
Slope:	0.6474

Error Coefficients

Standard Error:	786000
Relative Standard Error:	19.5
Correlation Coefficient:	0.866
Coefficient of Determination (Adjusted):	0.948

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	2.0	1.459655	25.0	197050.0	0.729827	Y
2	IC 480-559712/14	5.0	3.791065	25.0	191892.0	0.758213	Y
3	IC 480-559712/15	10.0	6.848096	25.0	190166.0	0.68481	Y
4	IC 480-559712/16	25.0	16.857472	25.0	193260.0	0.674299	Y
5	IC 480-559712/17	50.0	33.670736	25.0	196921.0	0.673415	Y
6	ICIS 480-559712/18	125.0	80.736851	25.0	200563.0	0.645895	Y
7	IC 480-559712/19	250.0	166.057479	25.0	202510.0	0.66423	Y
8	IC 480-559712/20	500.0	174.319633	25.0	203089.0	0.348639	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

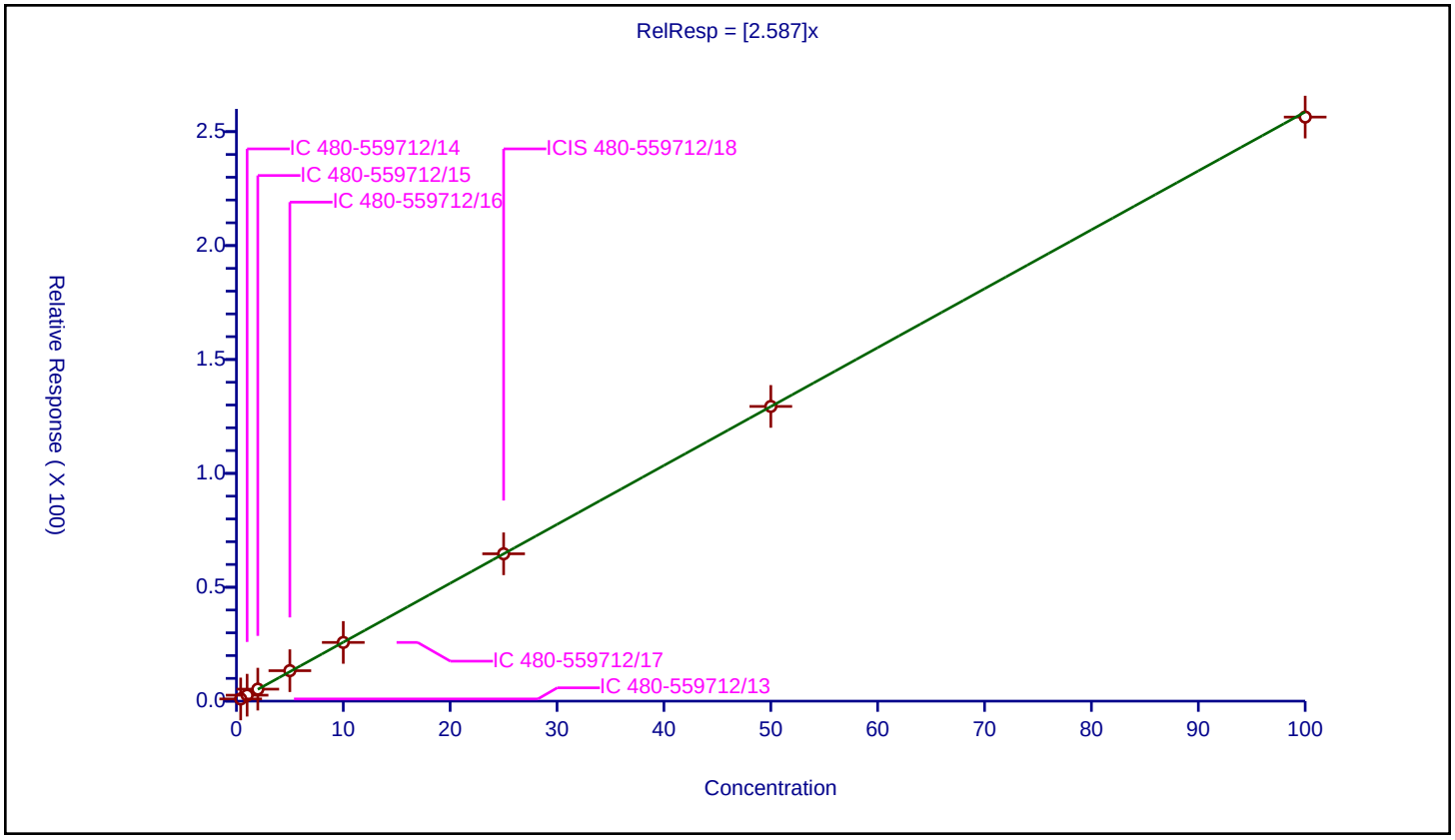
Curve Coefficients

Intercept:	0
Slope:	2.587

Error Coefficients

Standard Error:	907000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.980462	25.0	197050.0	2.451155	Y
2	IC 480-559712/14	1.0	2.61384	25.0	191892.0	2.61384	Y
3	IC 480-559712/15	2.0	5.265663	25.0	190166.0	2.632831	Y
4	IC 480-559712/16	5.0	13.387406	25.0	193260.0	2.677481	Y
5	IC 480-559712/17	10.0	25.779246	25.0	196921.0	2.577925	Y
6	ICIS 480-559712/18	25.0	64.687904	25.0	200563.0	2.587516	Y
7	IC 480-559712/19	50.0	129.382253	25.0	202510.0	2.587645	Y
8	IC 480-559712/20	100.0	256.41763	25.0	203089.0	2.564176	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

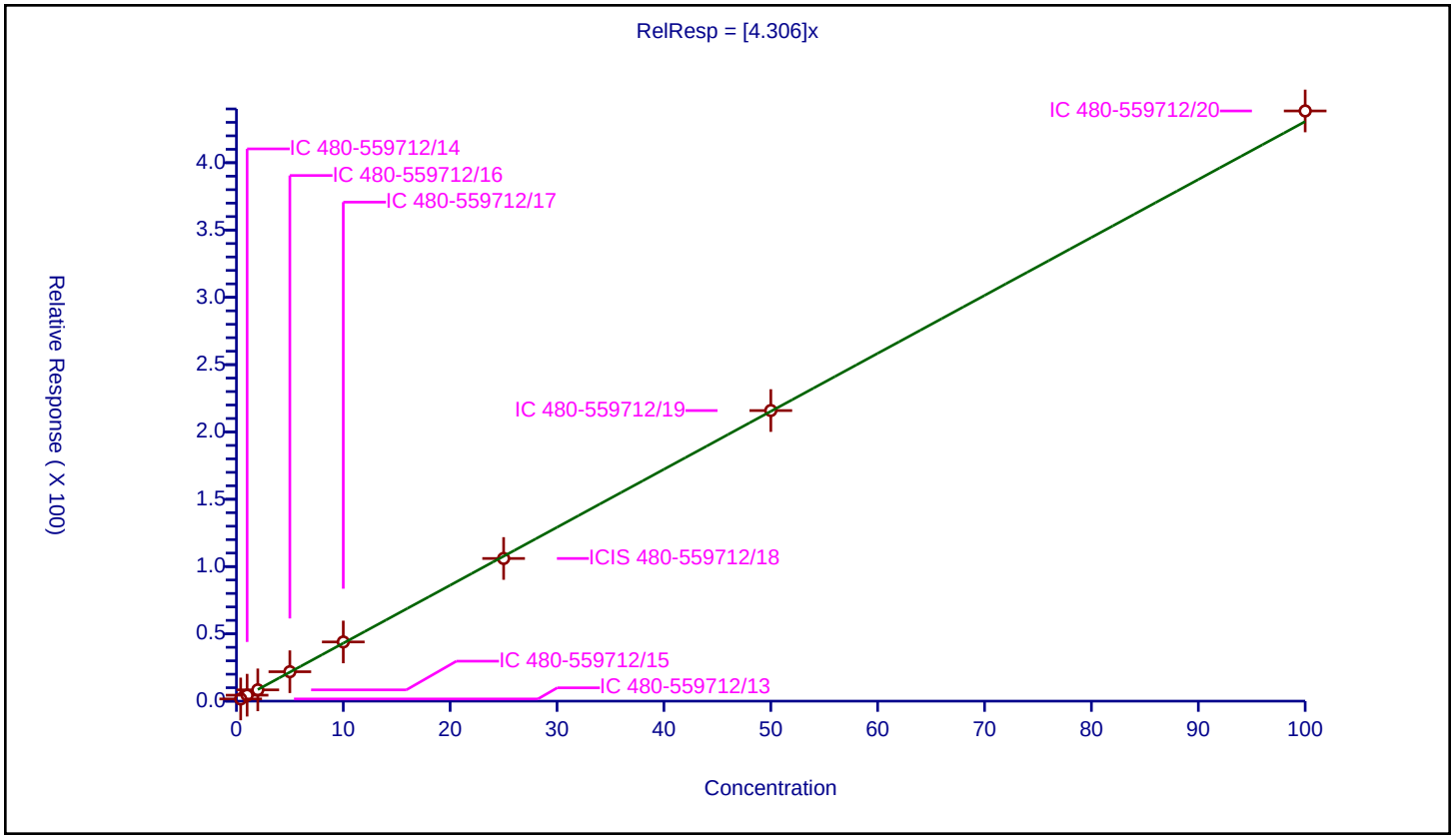
Curve Coefficients

Intercept:	0
Slope:	4.306

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.653895	25.0	197050.0	4.134737	Y
2	IC 480-559712/14	1.0	4.412769	25.0	191892.0	4.412769	Y
3	IC 480-559712/15	2.0	8.38215	25.0	190166.0	4.191075	Y
4	IC 480-559712/16	5.0	21.860965	25.0	193260.0	4.372193	Y
5	IC 480-559712/17	10.0	43.967886	25.0	196921.0	4.396789	Y
6	ICIS 480-559712/18	25.0	105.988767	25.0	200563.0	4.239551	Y
7	IC 480-559712/19	50.0	215.916868	25.0	202510.0	4.318337	Y
8	IC 480-559712/20	100.0	438.475127	25.0	203089.0	4.384751	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

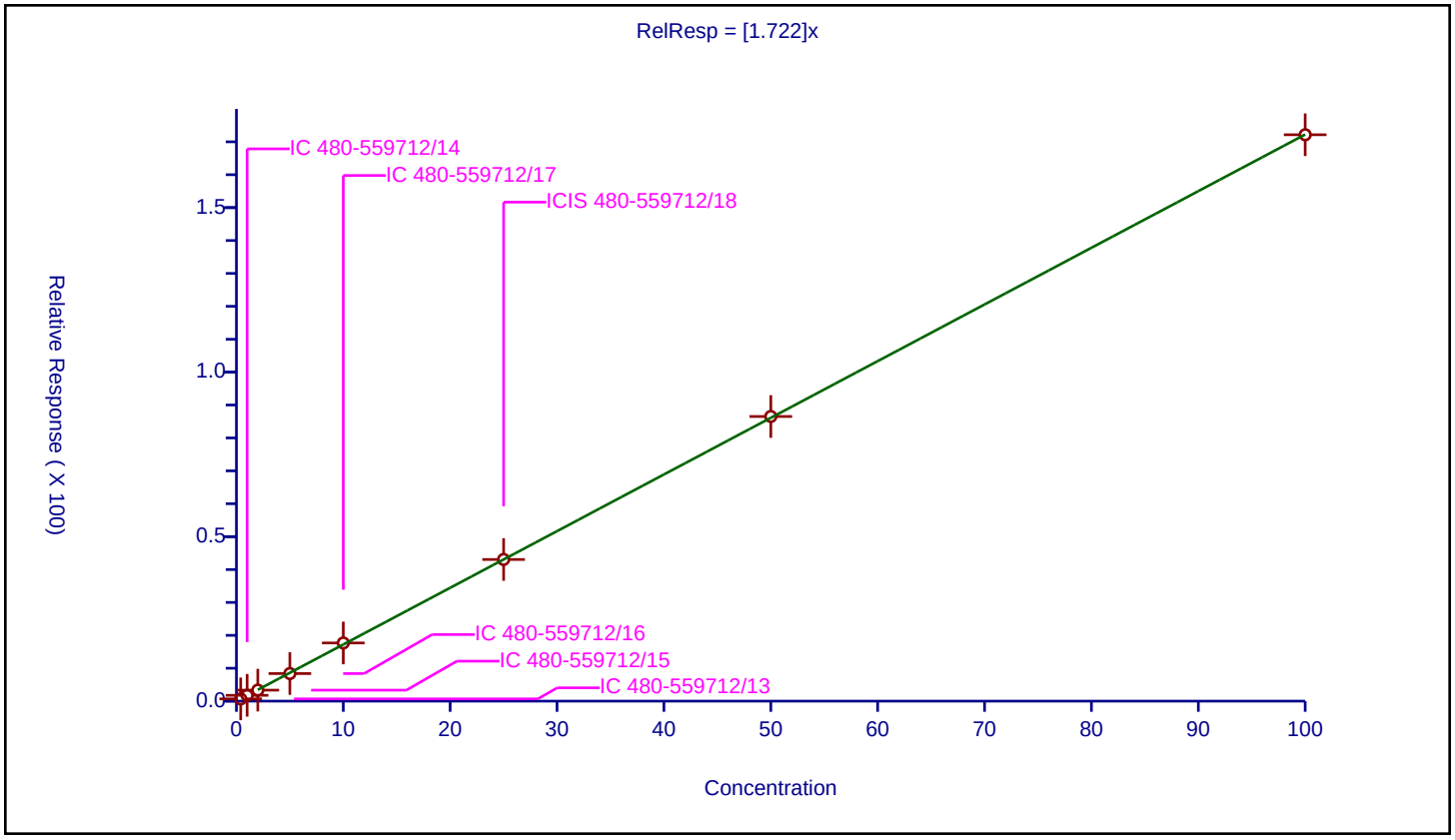
Curve Coefficients

Intercept:	0
Slope:	1.722

Error Coefficients

Standard Error:	608000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.687389	25.0	197050.0	1.718472	Y
2	IC 480-559712/14	1.0	1.769485	25.0	191892.0	1.769485	Y
3	IC 480-559712/15	2.0	3.342737	25.0	190166.0	1.671369	Y
4	IC 480-559712/16	5.0	8.383654	25.0	193260.0	1.676731	Y
5	IC 480-559712/17	10.0	17.68336	25.0	196921.0	1.768336	Y
6	ICIS 480-559712/18	25.0	43.062529	25.0	200563.0	1.722501	Y
7	IC 480-559712/19	50.0	86.518444	25.0	202510.0	1.730369	Y
8	IC 480-559712/20	100.0	172.13697	25.0	203089.0	1.72137	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

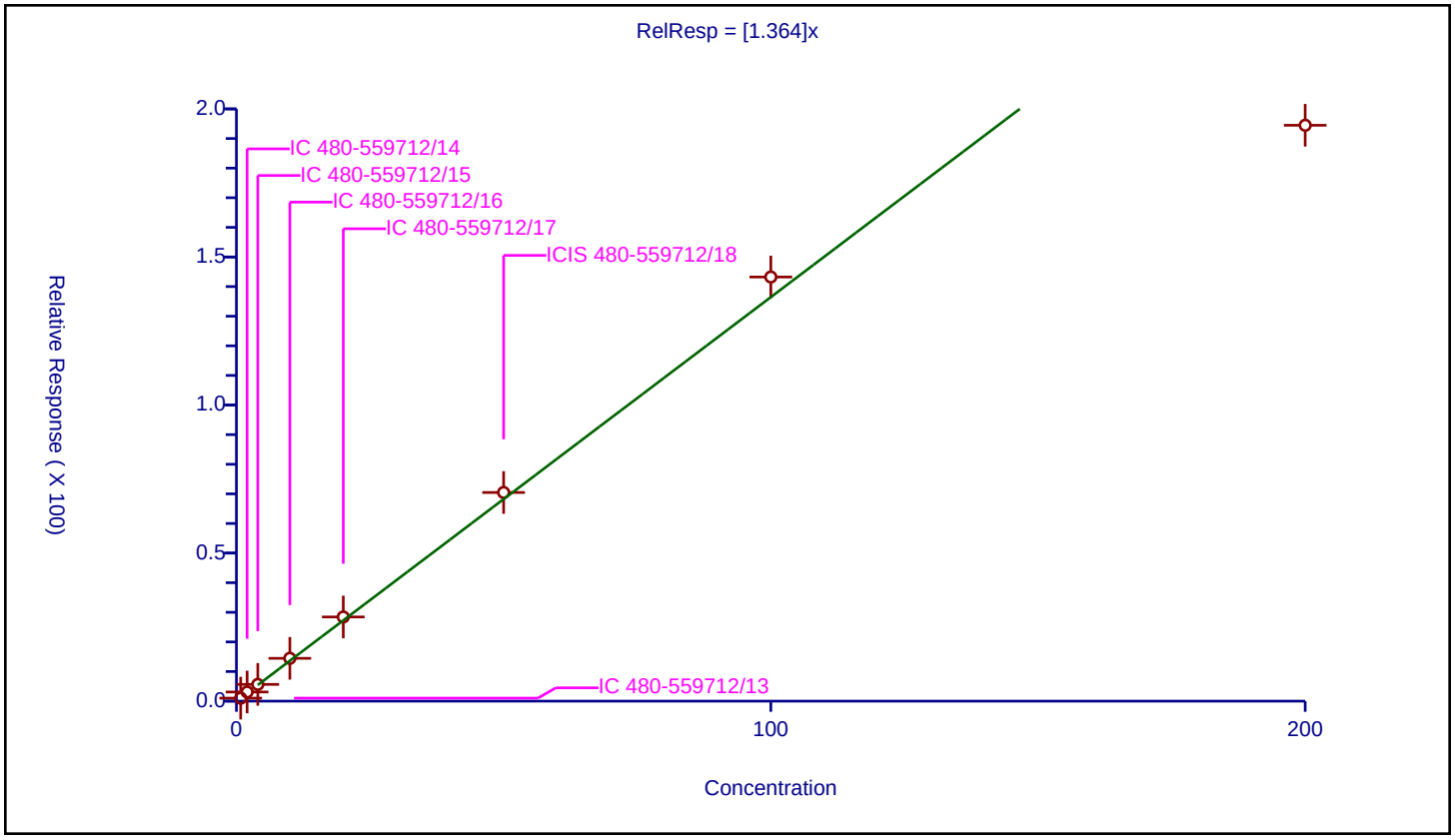
Curve Coefficients

Intercept:	0
Slope:	1.364

Error Coefficients

Standard Error:	777000
Relative Standard Error:	12.8
Correlation Coefficient:	0.956
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.8	1.01865	25.0	197050.0	1.273313	Y
2	IC 480-559712/14	2.0	3.093928	25.0	191892.0	1.546964	Y
3	IC 480-559712/15	4.0	5.649406	25.0	190166.0	1.412352	Y
4	IC 480-559712/16	10.0	14.469626	25.0	193260.0	1.446963	Y
5	IC 480-559712/17	20.0	28.424089	25.0	196921.0	1.421204	Y
6	ICIS 480-559712/18	50.0	70.466886	25.0	200563.0	1.409338	Y
7	IC 480-559712/19	100.0	143.231816	25.0	202510.0	1.432318	Y
8	IC 480-559712/20	200.0	194.47262	25.0	203089.0	0.972363	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

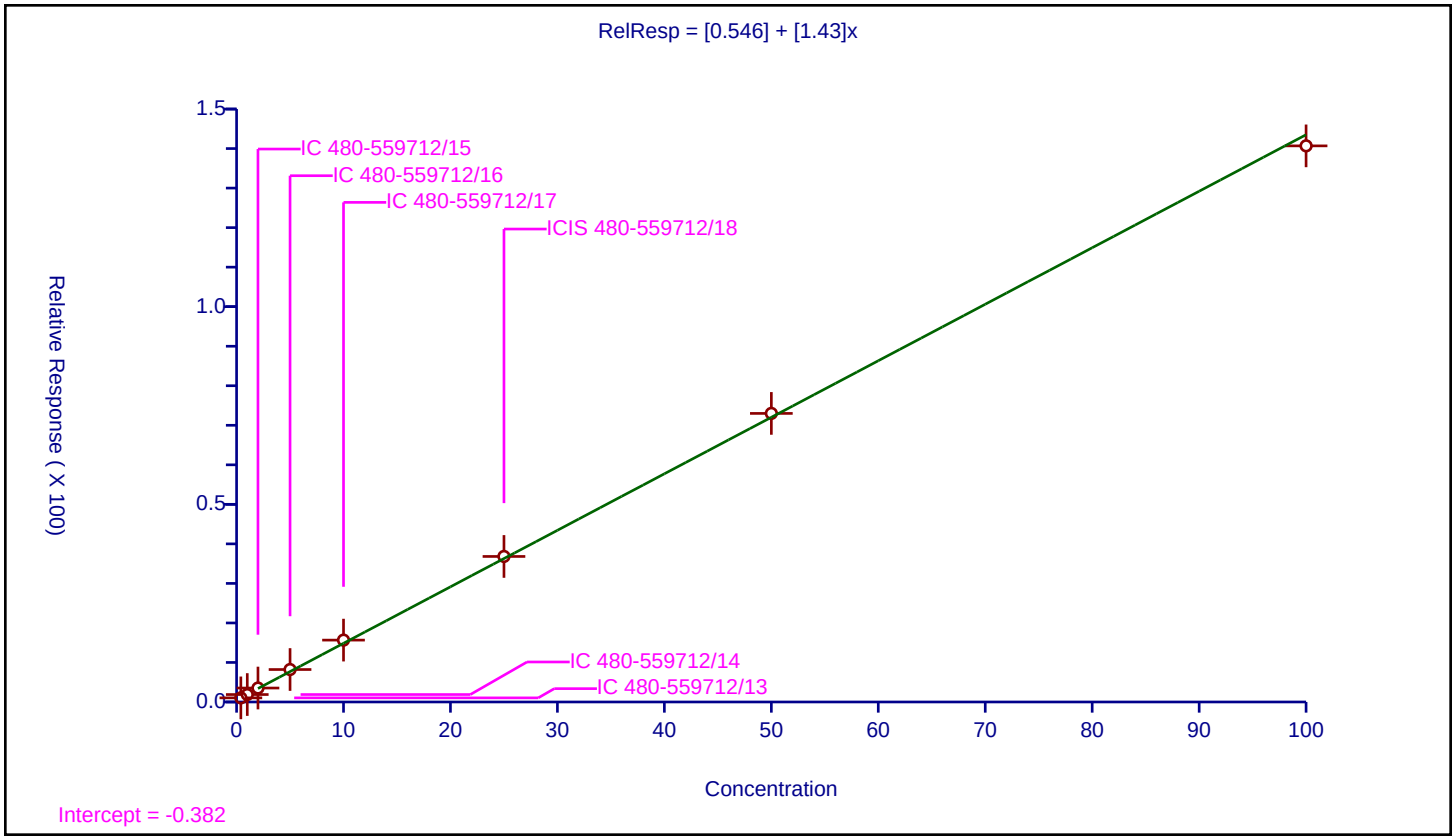
Curve Coefficients

Intercept:	0.546
Slope:	1.43

Error Coefficients

Standard Error:	542000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.049226	25.0	197050.0	2.623065	Y
2	IC 480-559712/14	1.0	1.886087	25.0	191892.0	1.886087	Y
3	IC 480-559712/15	2.0	3.531651	25.0	190166.0	1.765826	Y
4	IC 480-559712/16	5.0	8.21083	25.0	193260.0	1.642166	Y
5	IC 480-559712/17	10.0	15.653739	25.0	196921.0	1.565374	Y
6	ICIS 480-559712/18	25.0	36.821971	25.0	200563.0	1.472879	Y
7	IC 480-559712/19	50.0	73.007135	25.0	202510.0	1.460143	Y
8	IC 480-559712/20	100.0	140.682779	25.0	203089.0	1.406828	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

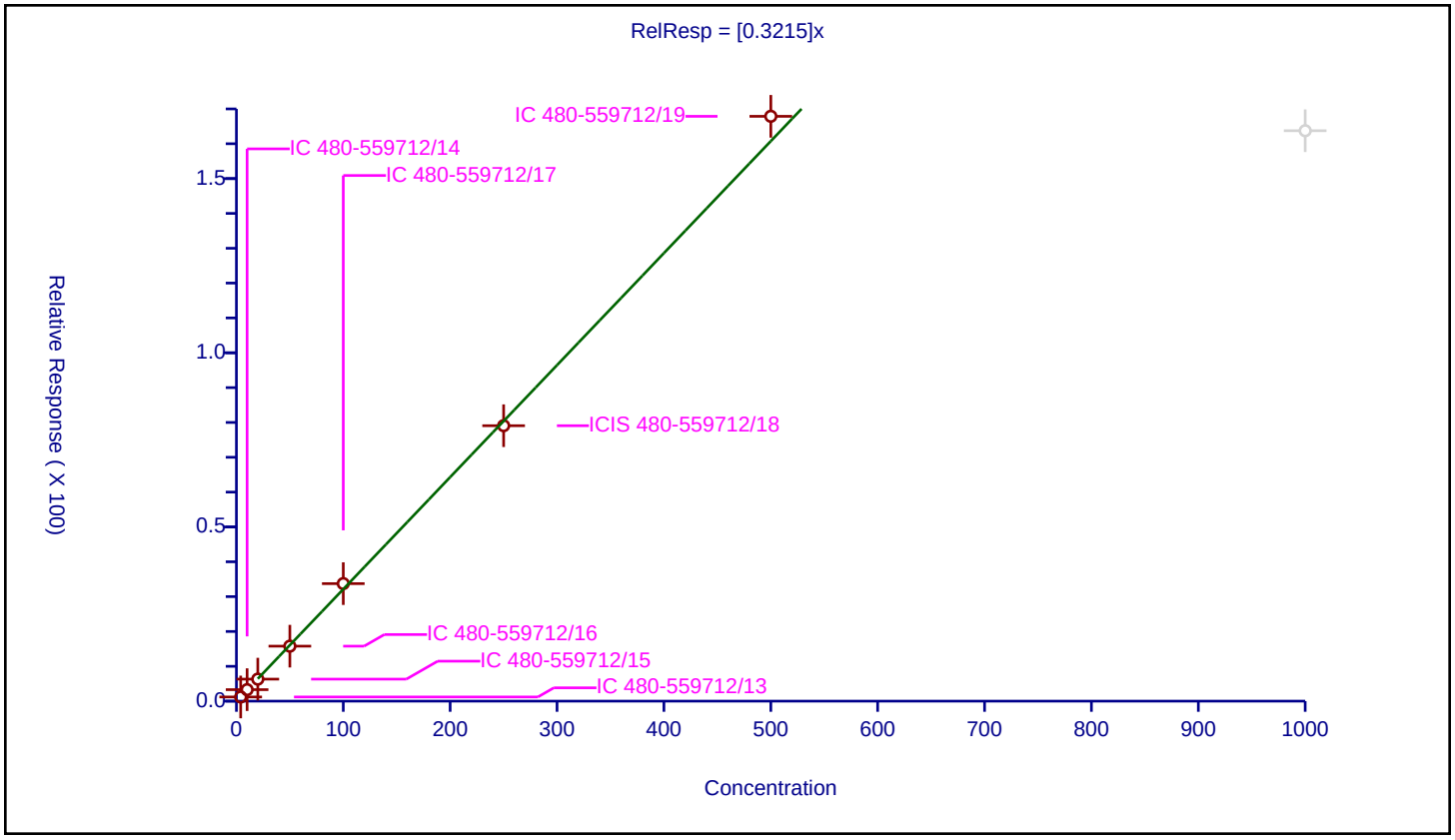
Curve Coefficients

Intercept:	0
Slope:	0.3215

Error Coefficients

Standard Error:	624000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	4.0	1.198427	25.0	197050.0	0.299607	Y
2	IC 480-559712/14	10.0	3.2986	25.0	191892.0	0.32986	Y
3	IC 480-559712/15	20.0	6.319873	25.0	190166.0	0.315994	Y
4	IC 480-559712/16	50.0	15.784824	25.0	193260.0	0.315696	Y
5	IC 480-559712/17	100.0	33.738276	25.0	196921.0	0.337383	Y
6	ICIS 480-559712/18	250.0	79.067176	25.0	200563.0	0.316269	Y
7	IC 480-559712/19	500.0	167.876154	25.0	202510.0	0.335752	Y
8	IC 480-559712/20	1000.0	163.729202	25.0	203089.0	0.163729	N



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

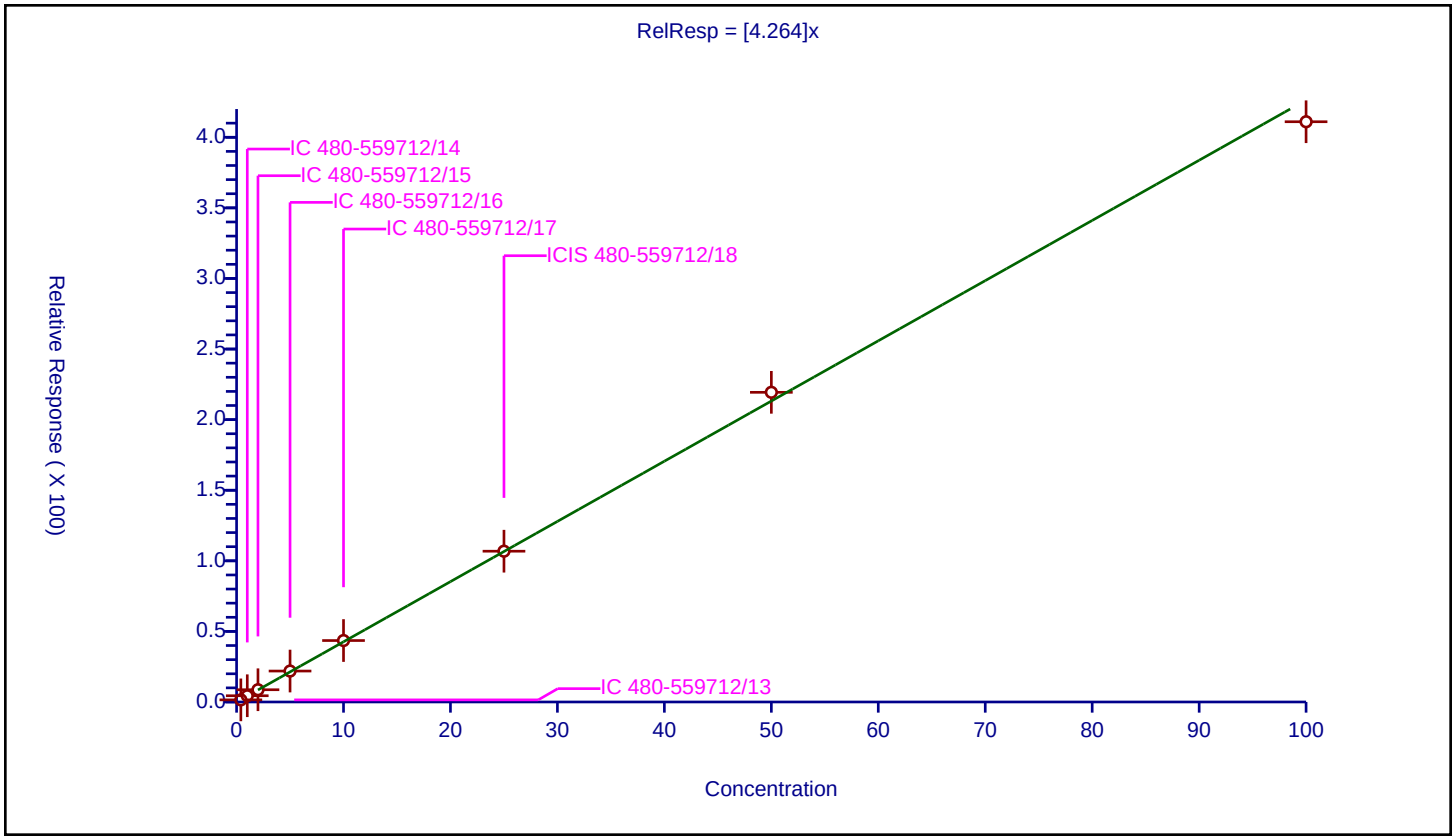
Curve Coefficients

Intercept:	0
Slope:	4.264

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.52918	25.0	197050.0	3.822951	Y
2	IC 480-559712/14	1.0	4.435307	25.0	191892.0	4.435307	Y
3	IC 480-559712/15	2.0	8.686884	25.0	190166.0	4.343442	Y
4	IC 480-559712/16	5.0	21.919823	25.0	193260.0	4.383965	Y
5	IC 480-559712/17	10.0	43.532813	25.0	196921.0	4.353281	Y
6	ICIS 480-559712/18	25.0	106.813694	25.0	200563.0	4.272548	Y
7	IC 480-559712/19	50.0	219.356205	25.0	202510.0	4.387124	Y
8	IC 480-559712/20	100.0	410.983362	25.0	203089.0	4.109834	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

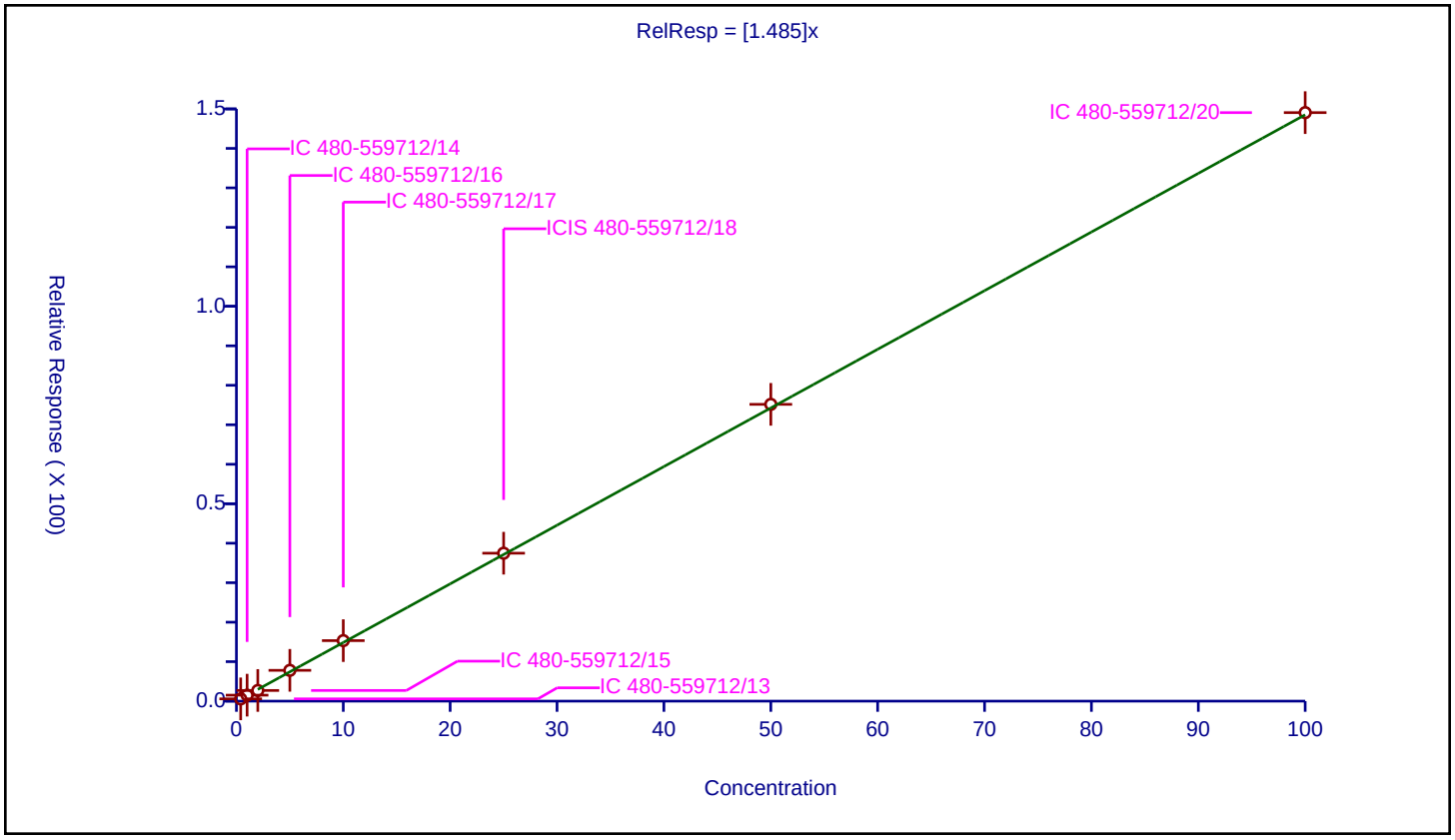
Curve Coefficients

Intercept:	0
Slope:	1.485

Error Coefficients

Standard Error:	527000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.573459	25.0	197050.0	1.433646	Y
2	IC 480-559712/14	1.0	1.5127	25.0	191892.0	1.5127	Y
3	IC 480-559712/15	2.0	2.698826	25.0	190166.0	1.349413	Y
4	IC 480-559712/16	5.0	7.802054	25.0	193260.0	1.560411	Y
5	IC 480-559712/17	10.0	15.330005	25.0	196921.0	1.533001	Y
6	ICIS 480-559712/18	25.0	37.468152	25.0	200563.0	1.498726	Y
7	IC 480-559712/19	50.0	75.172708	25.0	202510.0	1.503454	Y
8	IC 480-559712/20	100.0	149.05374	25.0	203089.0	1.490537	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

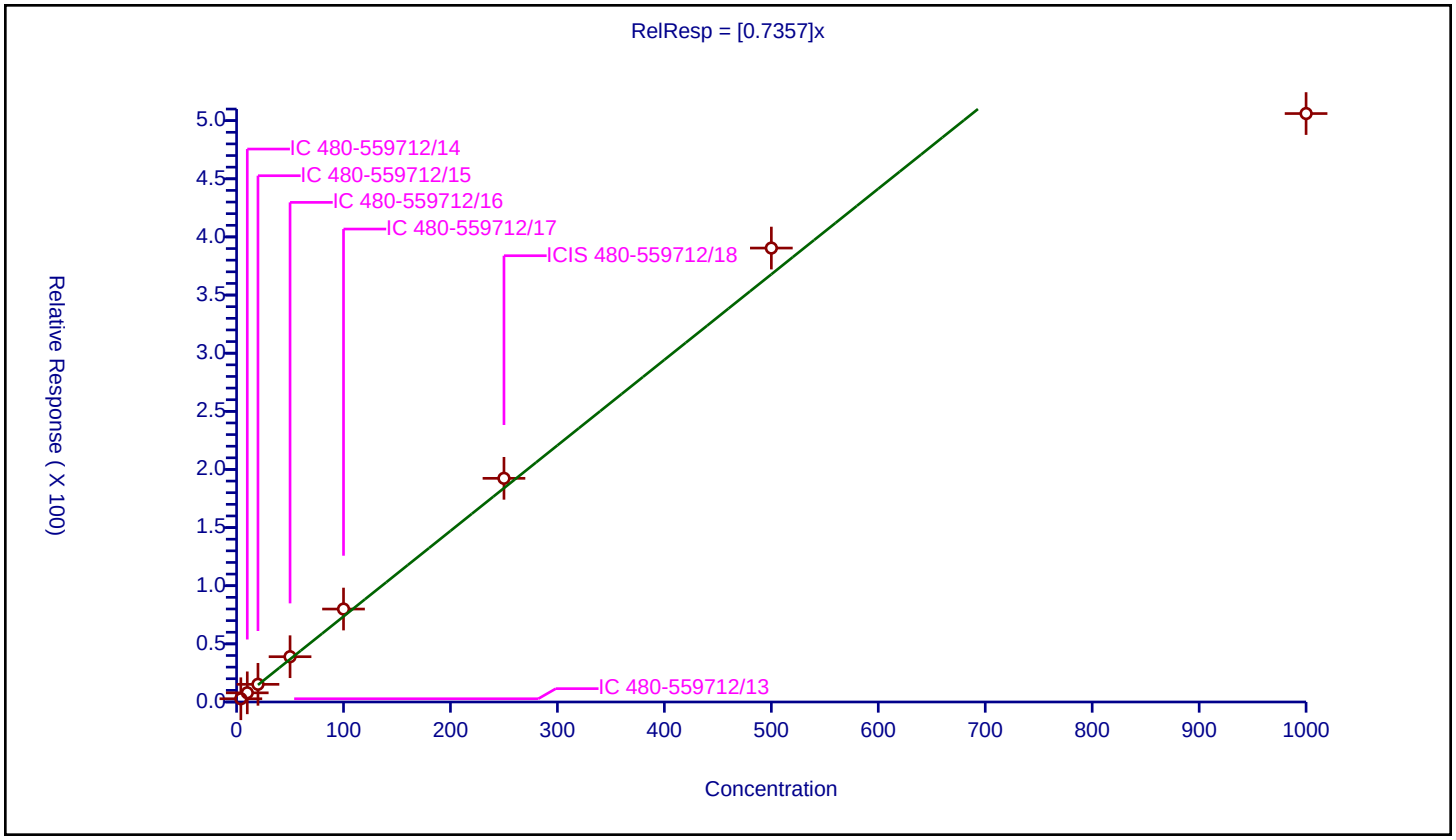
Curve Coefficients

Intercept:	0
Slope:	0.7357

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	13.3
Correlation Coefficient:	0.943
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	4.0	2.794468	25.0	197050.0	0.698617	Y
2	IC 480-559712/14	10.0	7.91096	25.0	191892.0	0.791096	Y
3	IC 480-559712/15	20.0	15.228143	25.0	190166.0	0.761407	Y
4	IC 480-559712/16	50.0	38.946109	25.0	193260.0	0.778922	Y
5	IC 480-559712/17	100.0	79.945511	25.0	196921.0	0.799455	Y
6	ICIS 480-559712/18	250.0	192.375089	25.0	200563.0	0.7695	Y
7	IC 480-559712/19	500.0	390.426152	25.0	202510.0	0.780852	Y
8	IC 480-559712/20	1000.0	506.124285	25.0	203089.0	0.506124	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

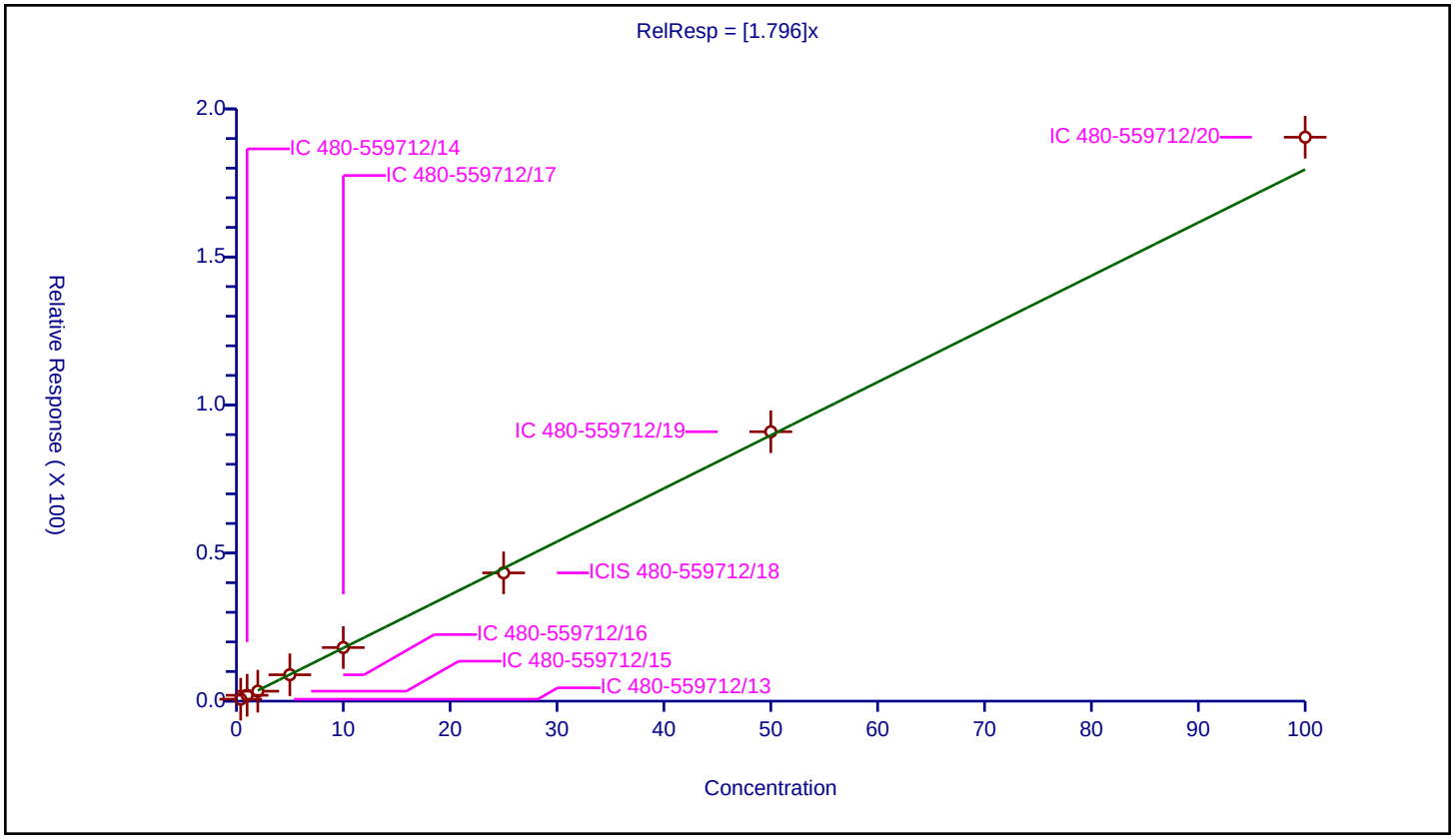
Curve Coefficients

Intercept:	0
Slope:	1.796

Error Coefficients

Standard Error:	664000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.661	25.0	197050.0	1.652499	Y
2	IC 480-559712/14	1.0	1.979499	25.0	191892.0	1.979499	Y
3	IC 480-559712/15	2.0	3.363377	25.0	190166.0	1.681689	Y
4	IC 480-559712/16	5.0	8.920496	25.0	193260.0	1.784099	Y
5	IC 480-559712/17	10.0	18.107769	25.0	196921.0	1.810777	Y
6	ICIS 480-559712/18	25.0	43.323295	25.0	200563.0	1.732932	Y
7	IC 480-559712/19	50.0	90.981063	25.0	202510.0	1.819621	Y
8	IC 480-559712/20	100.0	190.436828	25.0	203089.0	1.904368	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

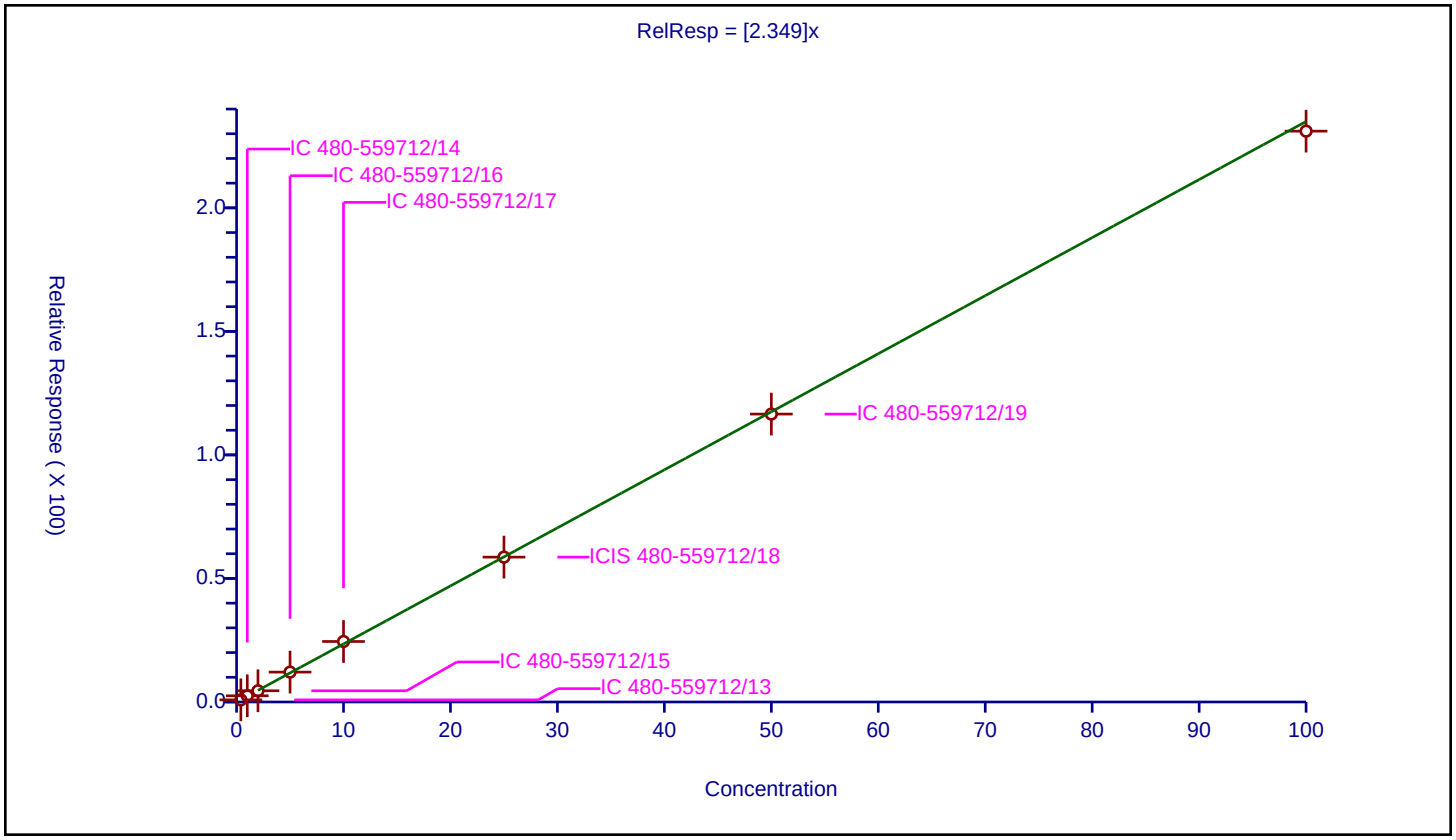
Curve Coefficients

Intercept:	0
Slope:	2.349

Error Coefficients

Standard Error:	818000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.863233	25.0	197050.0	2.158082	Y
2	IC 480-559712/14	1.0	2.51652	25.0	191892.0	2.51652	Y
3	IC 480-559712/15	2.0	4.533408	25.0	190166.0	2.266704	Y
4	IC 480-559712/16	5.0	12.095752	25.0	193260.0	2.41915	Y
5	IC 480-559712/17	10.0	24.489262	25.0	196921.0	2.448926	Y
6	ICIS 480-559712/18	25.0	58.635441	25.0	200563.0	2.345418	Y
7	IC 480-559712/19	50.0	116.529801	25.0	202510.0	2.330596	Y
8	IC 480-559712/20	100.0	231.053134	25.0	203089.0	2.310531	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

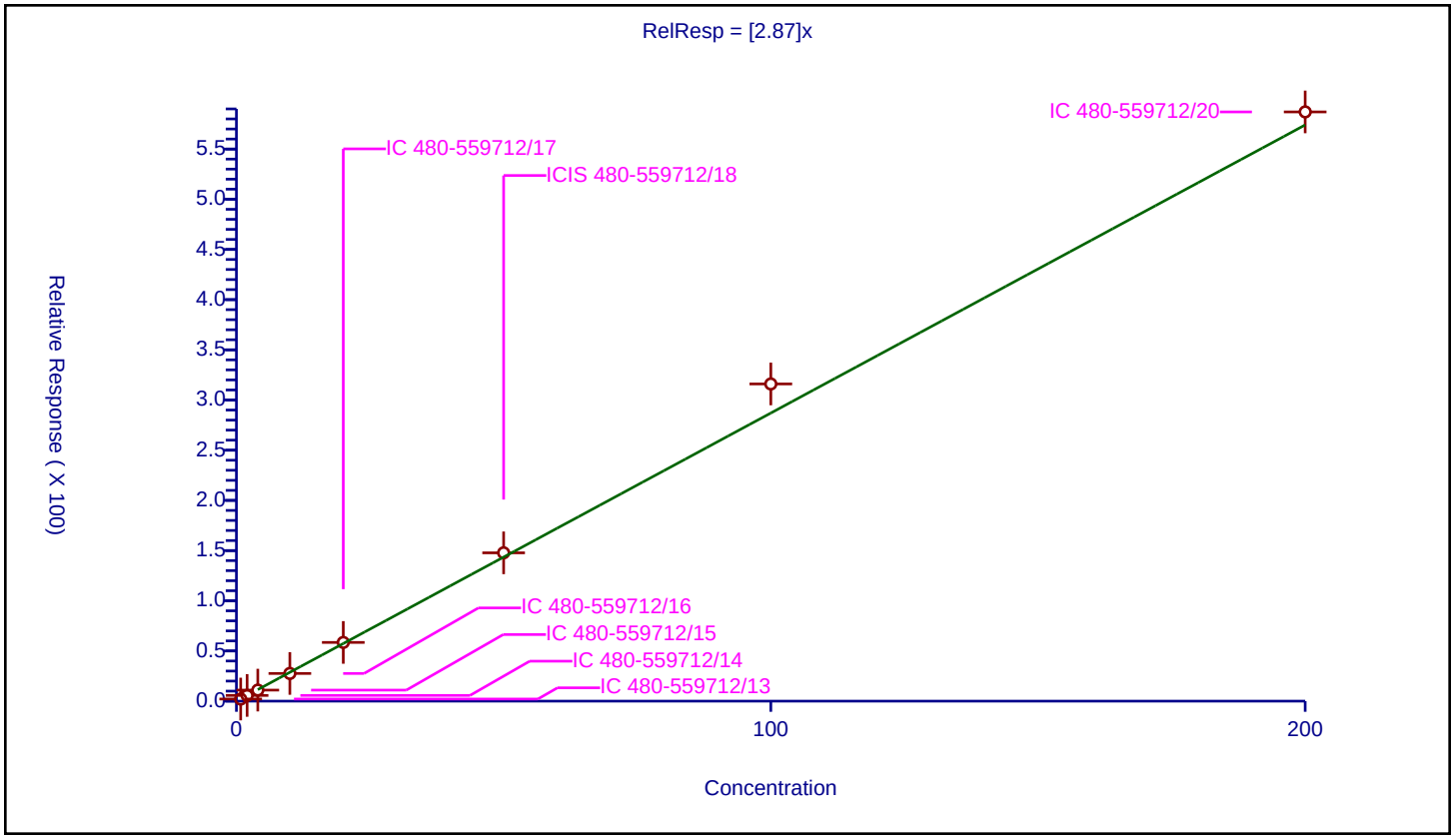
Curve Coefficients

Intercept:	0
Slope:	2.87

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.8	2.108221	25.0	197050.0	2.635277	Y
2	IC 480-559712/14	2.0	5.689138	25.0	191892.0	2.844569	Y
3	IC 480-559712/15	4.0	10.989083	25.0	190166.0	2.747271	Y
4	IC 480-559712/16	10.0	27.587964	25.0	193260.0	2.758796	Y
5	IC 480-559712/17	20.0	58.493761	25.0	196921.0	2.924688	Y
6	ICIS 480-559712/18	50.0	147.768158	25.0	200563.0	2.955363	Y
7	IC 480-559712/19	100.0	315.991309	25.0	202510.0	3.159913	Y
8	IC 480-559712/20	200.0	587.007913	25.0	203089.0	2.93504	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

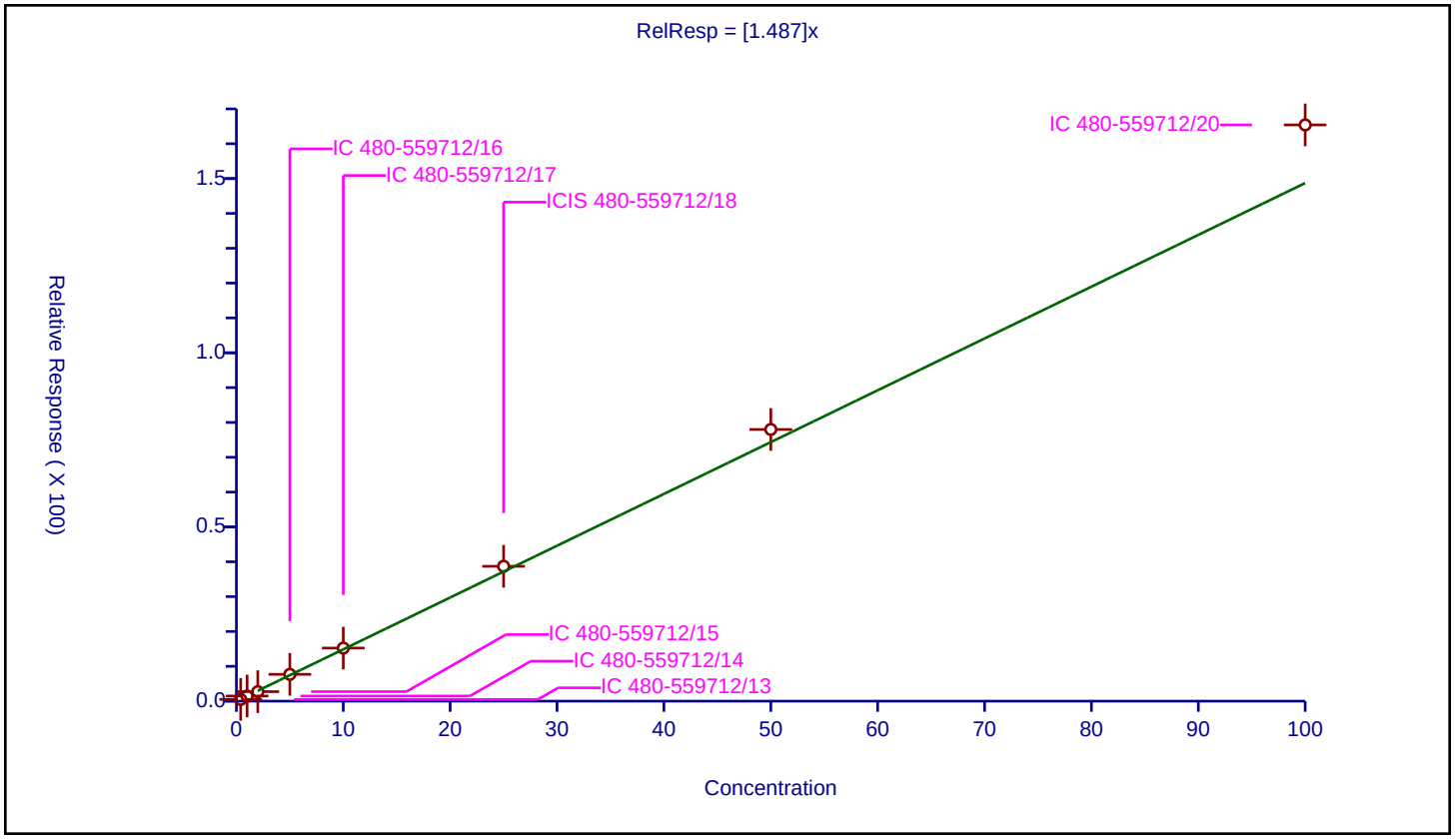
Curve Coefficients

Intercept:	0
Slope:	1.487

Error Coefficients

Standard Error:	576000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.495433	25.0	197050.0	1.238582	Y
2	IC 480-559712/14	1.0	1.472703	25.0	191892.0	1.472703	Y
3	IC 480-559712/15	2.0	2.723542	25.0	190166.0	1.361771	Y
4	IC 480-559712/16	5.0	7.691323	25.0	193260.0	1.538265	Y
5	IC 480-559712/17	10.0	15.232758	25.0	196921.0	1.523276	Y
6	ICIS 480-559712/18	25.0	38.712898	25.0	200563.0	1.548516	Y
7	IC 480-559712/19	50.0	77.980964	25.0	202510.0	1.559619	Y
8	IC 480-559712/20	100.0	165.39916	25.0	203089.0	1.653992	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

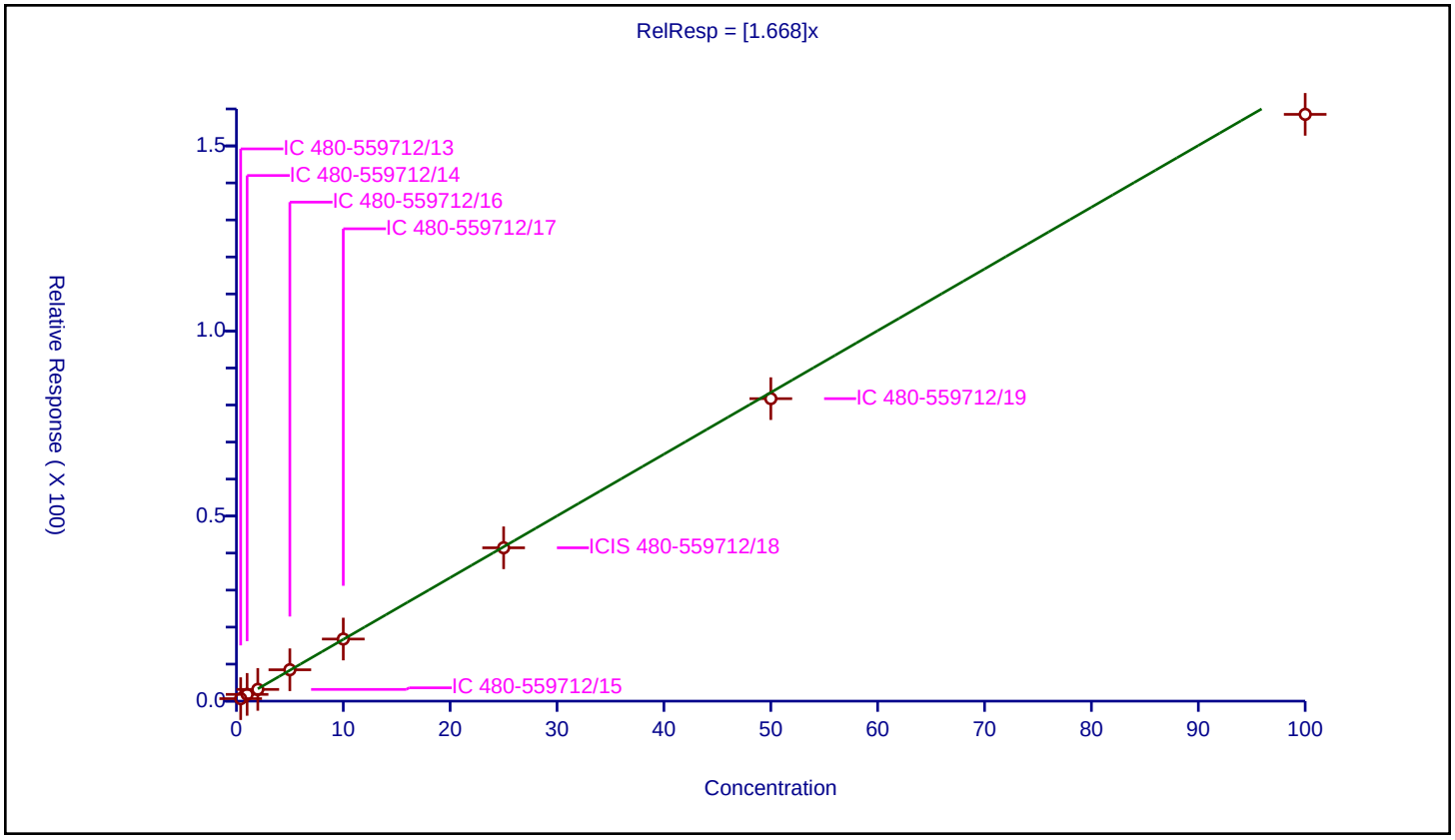
Curve Coefficients

Intercept:	0
Slope:	1.668

Error Coefficients

Standard Error:	564000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.673814	25.0	197050.0	1.684534	Y
2	IC 480-559712/14	1.0	1.821728	25.0	191892.0	1.821728	Y
3	IC 480-559712/15	2.0	3.175647	25.0	190166.0	1.587823	Y
4	IC 480-559712/16	5.0	8.476793	25.0	193260.0	1.695359	Y
5	IC 480-559712/17	10.0	16.778048	25.0	196921.0	1.677805	Y
6	ICIS 480-559712/18	25.0	41.432991	25.0	200563.0	1.65732	Y
7	IC 480-559712/19	50.0	81.72152	25.0	202510.0	1.63443	Y
8	IC 480-559712/20	100.0	158.529142	25.0	203089.0	1.585291	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

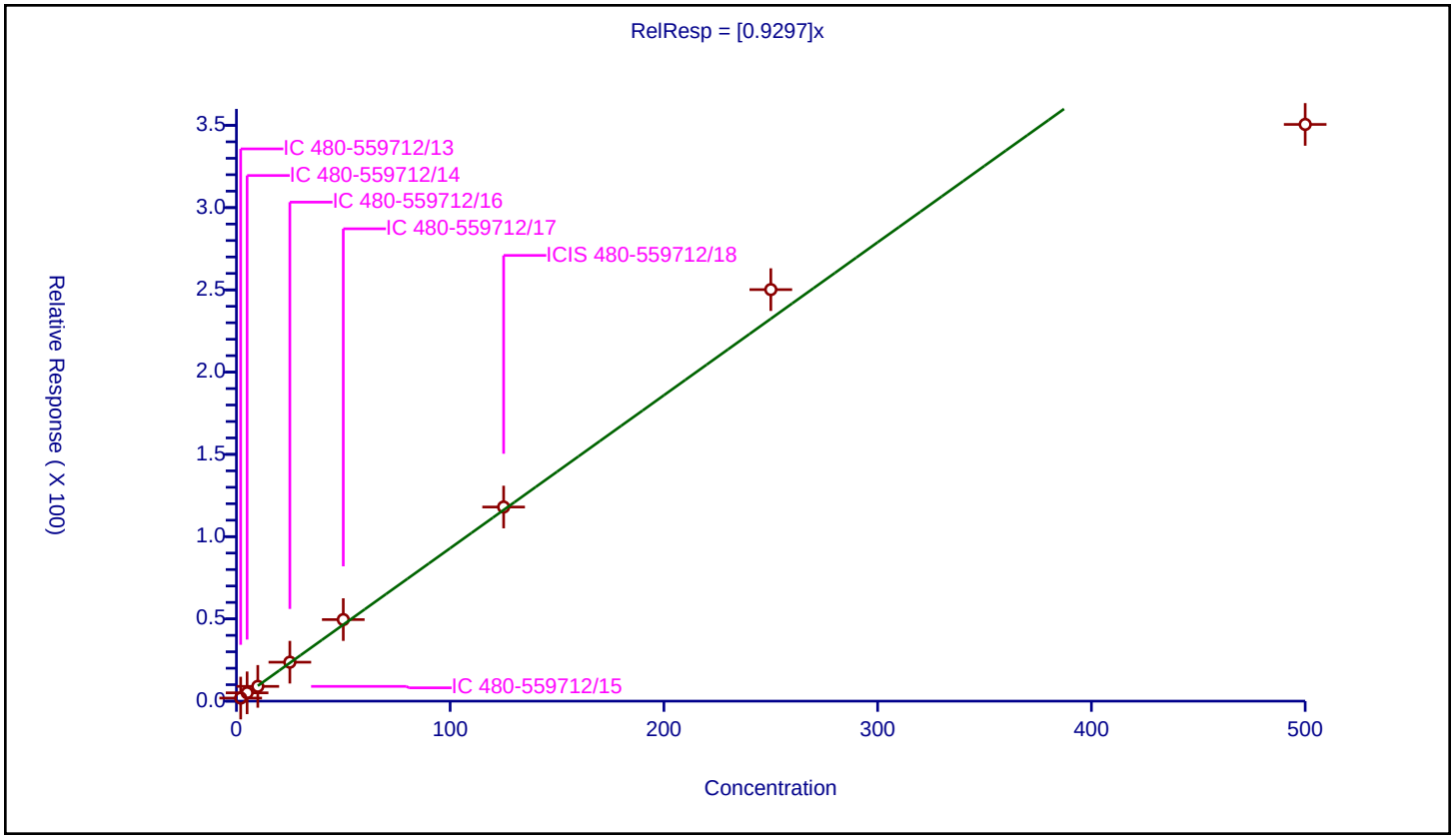
Curve Coefficients

Intercept:	0
Slope:	0.9297

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	10.7
Correlation Coefficient:	0.964
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	2.0	1.878838	25.0	197050.0	0.939419	Y
2	IC 480-559712/14	5.0	5.07017	25.0	191892.0	1.014034	Y
3	IC 480-559712/15	10.0	8.999506	25.0	190166.0	0.899951	Y
4	IC 480-559712/16	25.0	23.680405	25.0	193260.0	0.947216	Y
5	IC 480-559712/17	50.0	49.573052	25.0	196921.0	0.991461	Y
6	ICIS 480-559712/18	125.0	118.012046	25.0	200563.0	0.944096	Y
7	IC 480-559712/19	250.0	250.16172	25.0	202510.0	1.000647	Y
8	IC 480-559712/20	500.0	350.569824	25.0	203089.0	0.70114	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

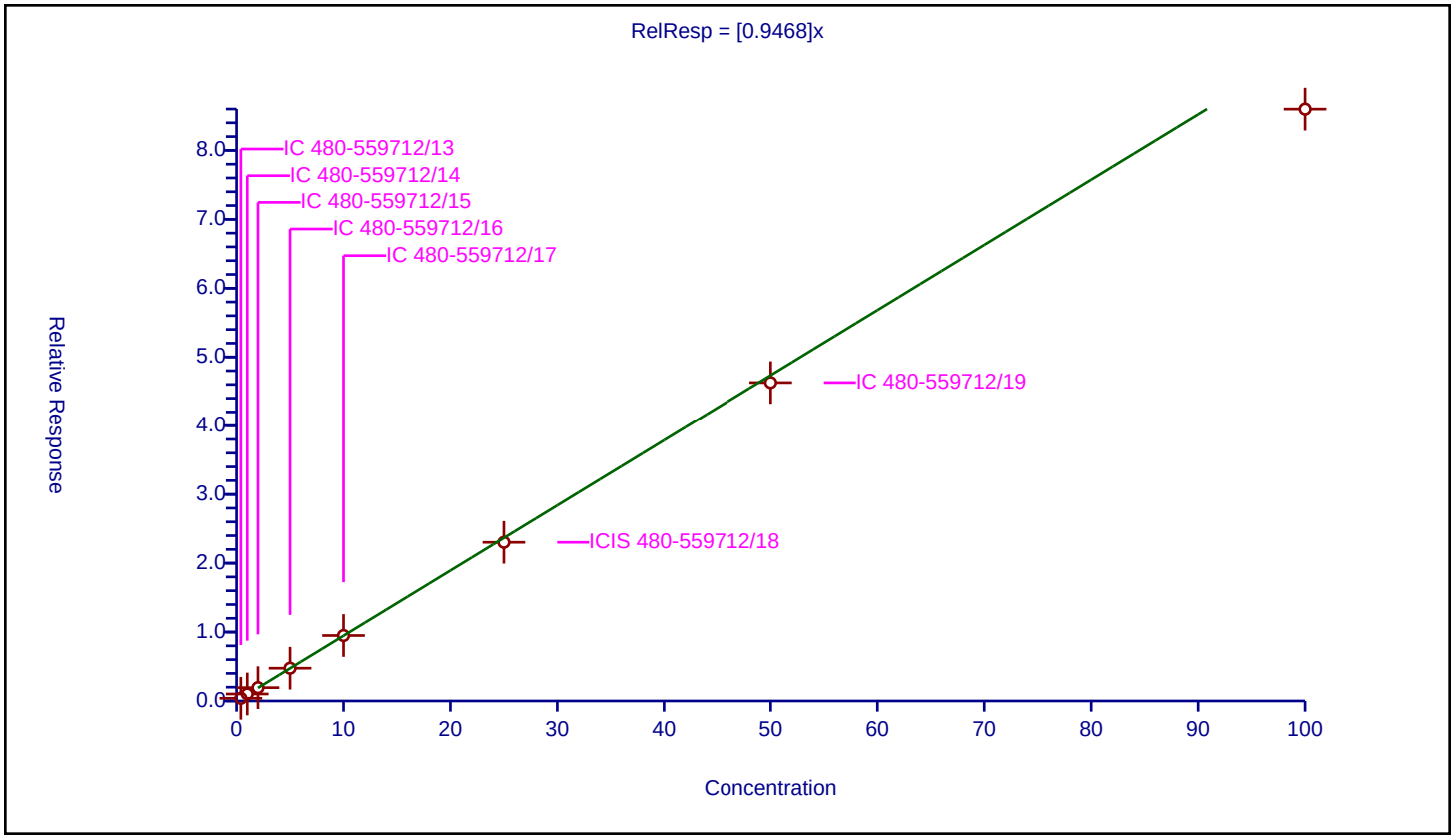
Curve Coefficients

Intercept:	0
Slope:	0.9468

Error Coefficients

Standard Error:	309000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.392667	25.0	197050.0	0.981667	Y
2	IC 480-559712/14	1.0	1.019844	25.0	191892.0	1.019844	Y
3	IC 480-559712/15	2.0	1.93055	25.0	190166.0	0.965275	Y
4	IC 480-559712/16	5.0	4.756546	25.0	193260.0	0.951309	Y
5	IC 480-559712/17	10.0	9.500129	25.0	196921.0	0.950013	Y
6	ICIS 480-559712/18	25.0	23.030793	25.0	200563.0	0.921232	Y
7	IC 480-559712/19	50.0	46.281418	25.0	202510.0	0.925628	Y
8	IC 480-559712/20	100.0	85.979792	25.0	203089.0	0.859798	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

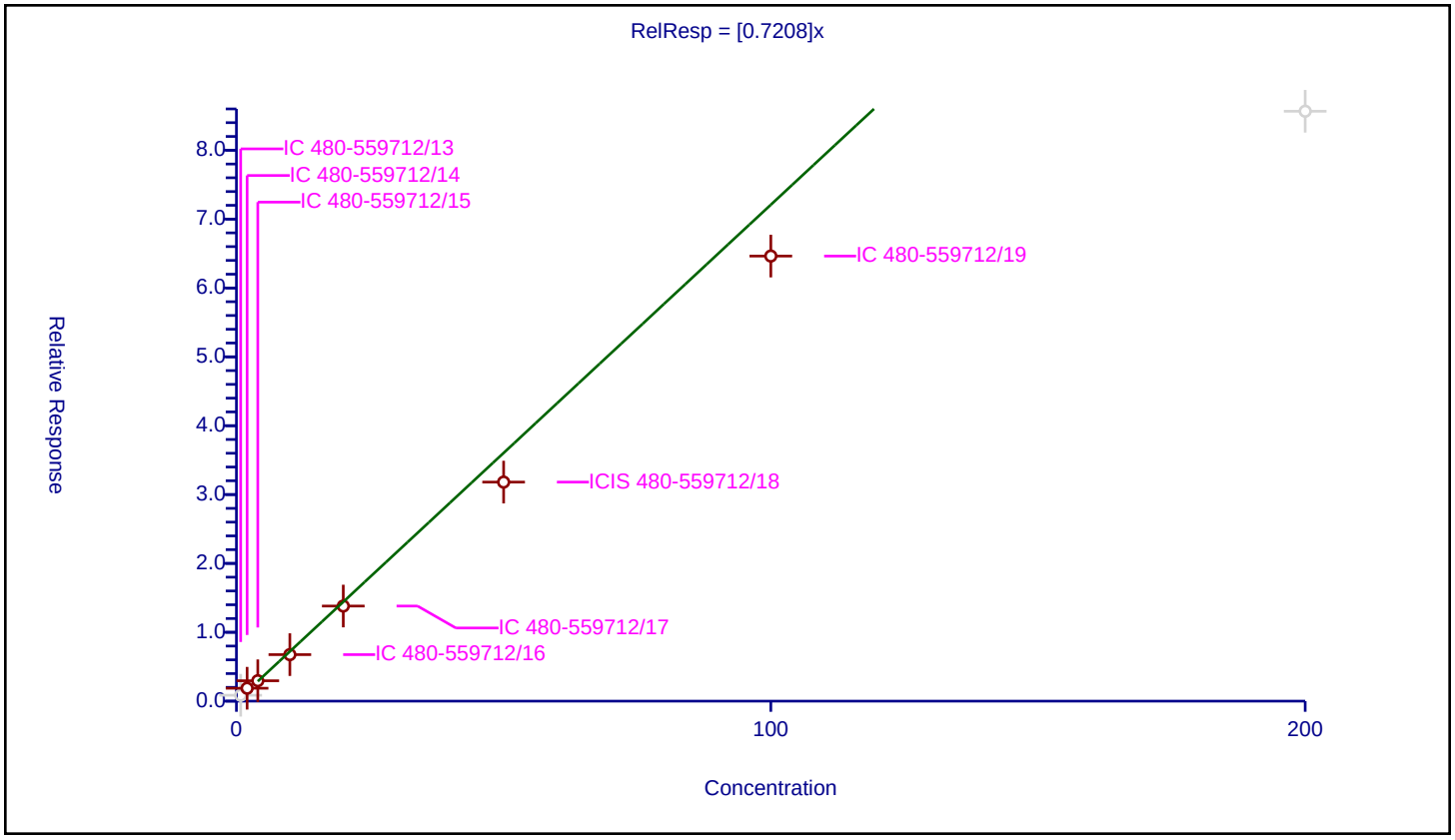
Curve Coefficients

Intercept:	0
Slope:	0.7208

Error Coefficients

Standard Error:	266000
Relative Standard Error:	15.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.953

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.8	0.858285	25.0	197050.0	1.072856	N
2	IC 480-559712/14	2.0	1.872538	25.0	191892.0	0.936269	Y
3	IC 480-559712/15	4.0	2.961097	25.0	190166.0	0.740274	Y
4	IC 480-559712/16	10.0	6.753984	25.0	193260.0	0.675398	Y
5	IC 480-559712/17	20.0	13.809345	25.0	196921.0	0.690467	Y
6	ICIS 480-559712/18	50.0	31.808085	25.0	200563.0	0.636162	Y
7	IC 480-559712/19	100.0	64.633475	25.0	202510.0	0.646335	Y
8	IC 480-559712/20	200.0	85.66072	25.0	203089.0	0.428304	N



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

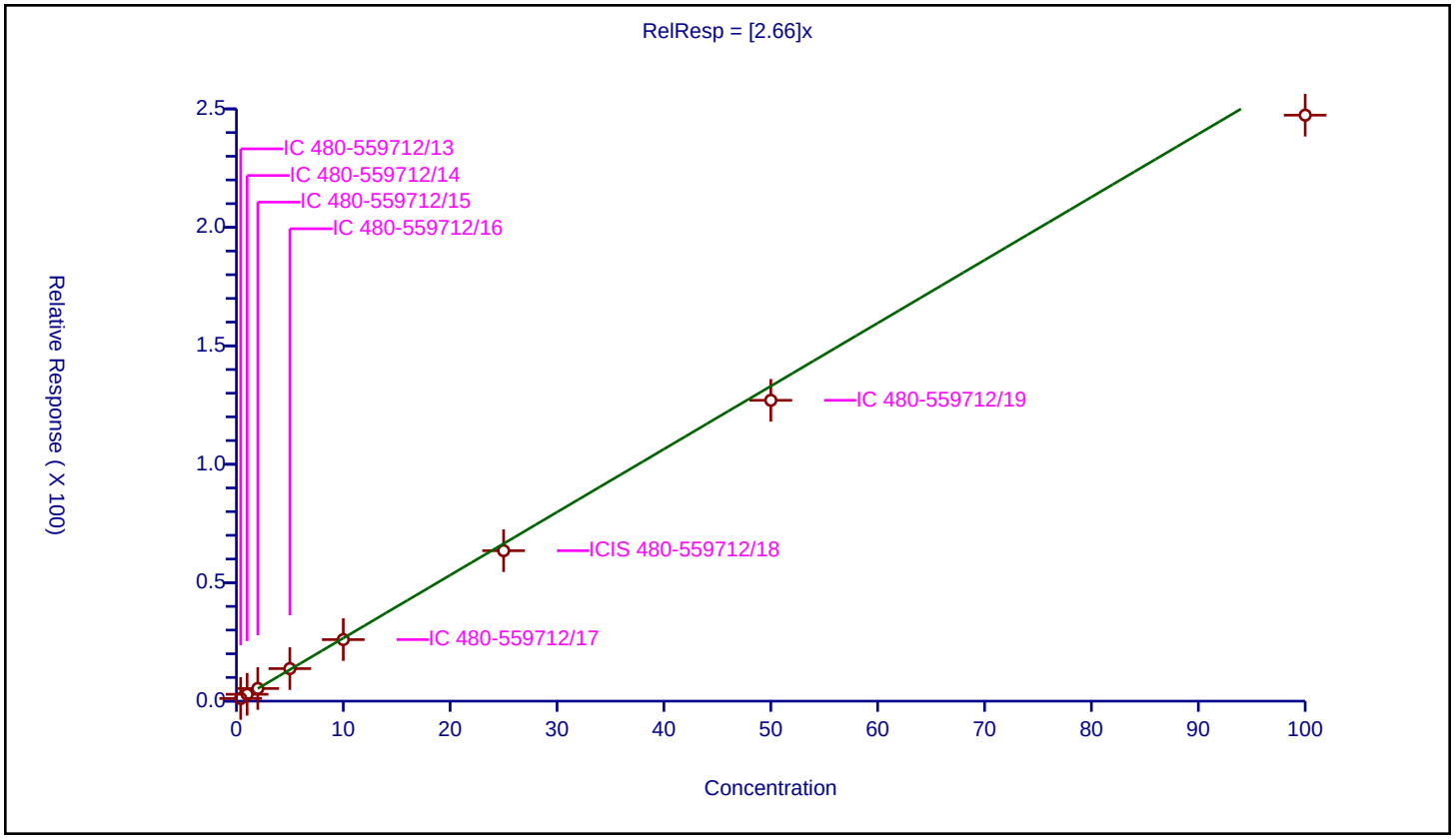
Curve Coefficients

Intercept:	0
Slope:	2.66

Error Coefficients

Standard Error:	879000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.12814	25.0	197050.0	2.82035	Y
2	IC 480-559712/14	1.0	2.892903	25.0	191892.0	2.892903	Y
3	IC 480-559712/15	2.0	5.335207	25.0	190166.0	2.667604	Y
4	IC 480-559712/16	5.0	13.727491	25.0	193260.0	2.745498	Y
5	IC 480-559712/17	10.0	25.981231	25.0	196921.0	2.598123	Y
6	ICIS 480-559712/18	25.0	63.501618	25.0	200563.0	2.540065	Y
7	IC 480-559712/19	50.0	126.992741	25.0	202510.0	2.539855	Y
8	IC 480-559712/20	100.0	247.361009	25.0	203089.0	2.47361	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

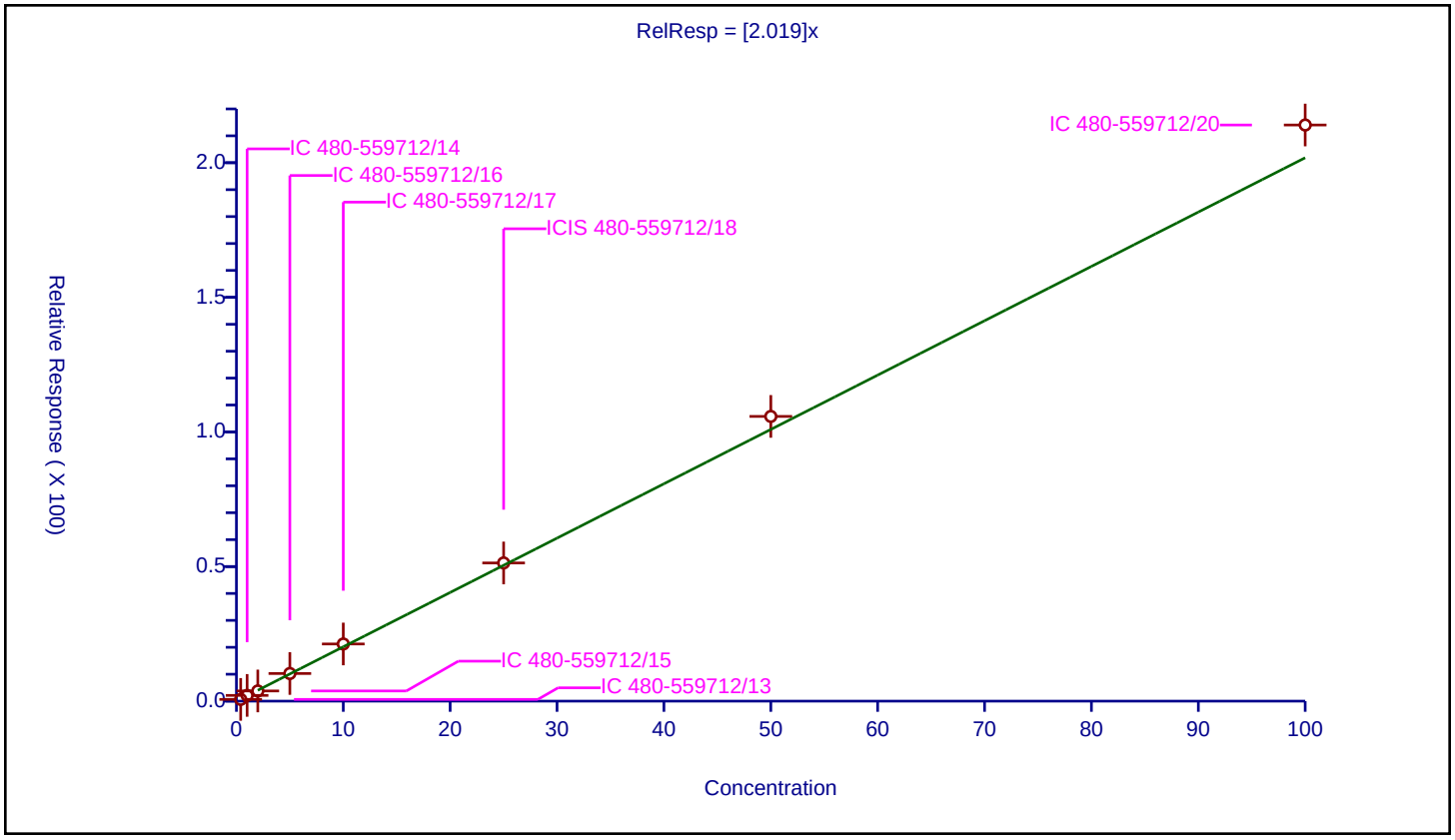
Curve Coefficients

Intercept:	0
Slope:	2.019

Error Coefficients

Standard Error:	752000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.656813	25.0	197050.0	1.642032	Y
2	IC 480-559712/14	1.0	2.129453	25.0	191892.0	2.129453	Y
3	IC 480-559712/15	2.0	3.78117	25.0	190166.0	1.890585	Y
4	IC 480-559712/16	5.0	10.269068	25.0	193260.0	2.053814	Y
5	IC 480-559712/17	10.0	21.236054	25.0	196921.0	2.123605	Y
6	ICIS 480-559712/18	25.0	51.344715	25.0	200563.0	2.053789	Y
7	IC 480-559712/19	50.0	105.767493	25.0	202510.0	2.11535	Y
8	IC 480-559712/20	100.0	214.012576	25.0	203089.0	2.140126	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

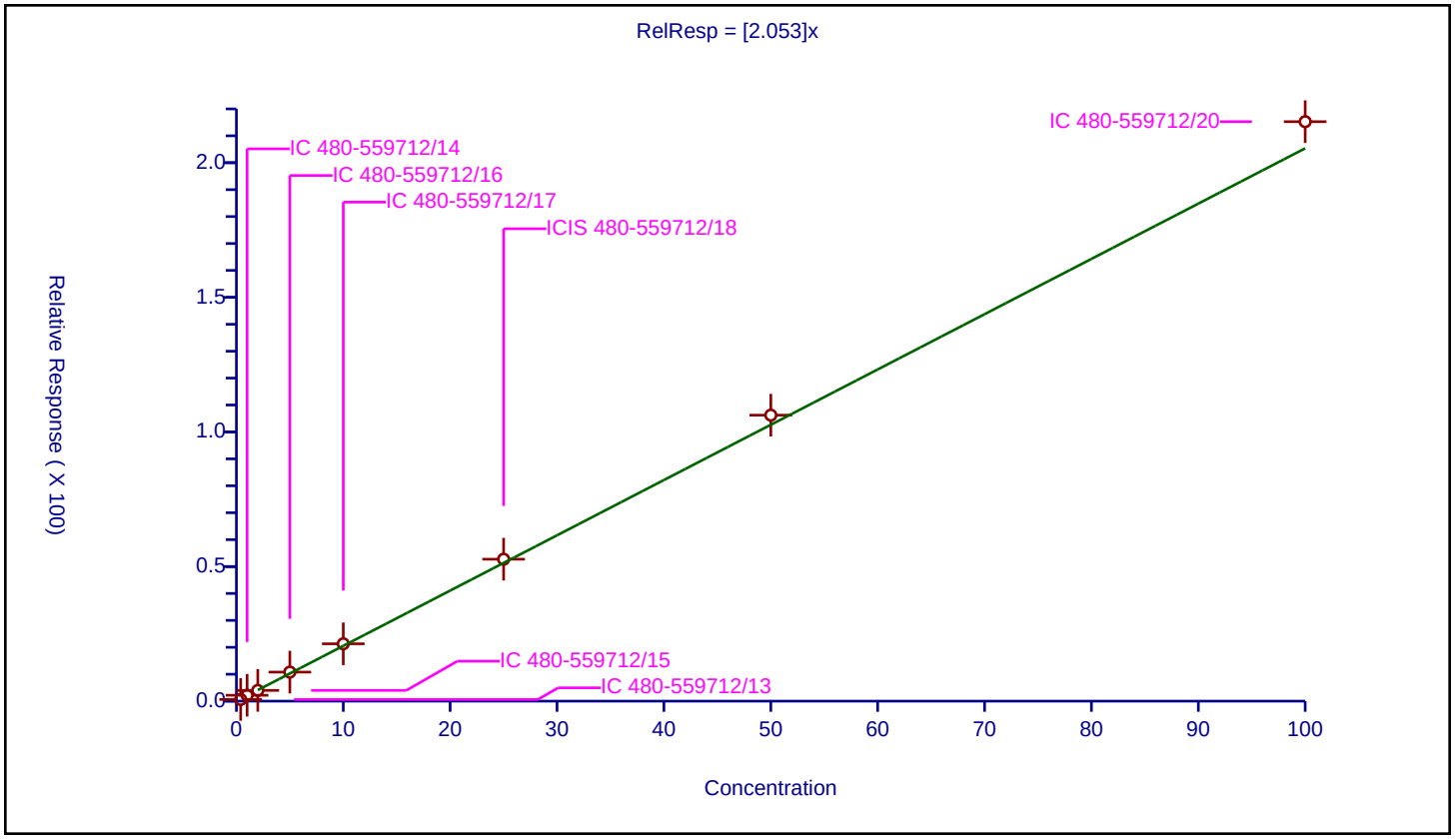
Curve Coefficients

Intercept:	0
Slope:	2.053

Error Coefficients

Standard Error:	757000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.629536	25.0	197050.0	1.573839	Y
2	IC 480-559712/14	1.0	2.182217	25.0	191892.0	2.182217	Y
3	IC 480-559712/15	2.0	3.989146	25.0	190166.0	1.994573	Y
4	IC 480-559712/16	5.0	10.803322	25.0	193260.0	2.160664	Y
5	IC 480-559712/17	10.0	21.301943	25.0	196921.0	2.130194	Y
6	ICIS 480-559712/18	25.0	52.72645	25.0	200563.0	2.109058	Y
7	IC 480-559712/19	50.0	106.240433	25.0	202510.0	2.124809	Y
8	IC 480-559712/20	100.0	215.253288	25.0	203089.0	2.152533	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

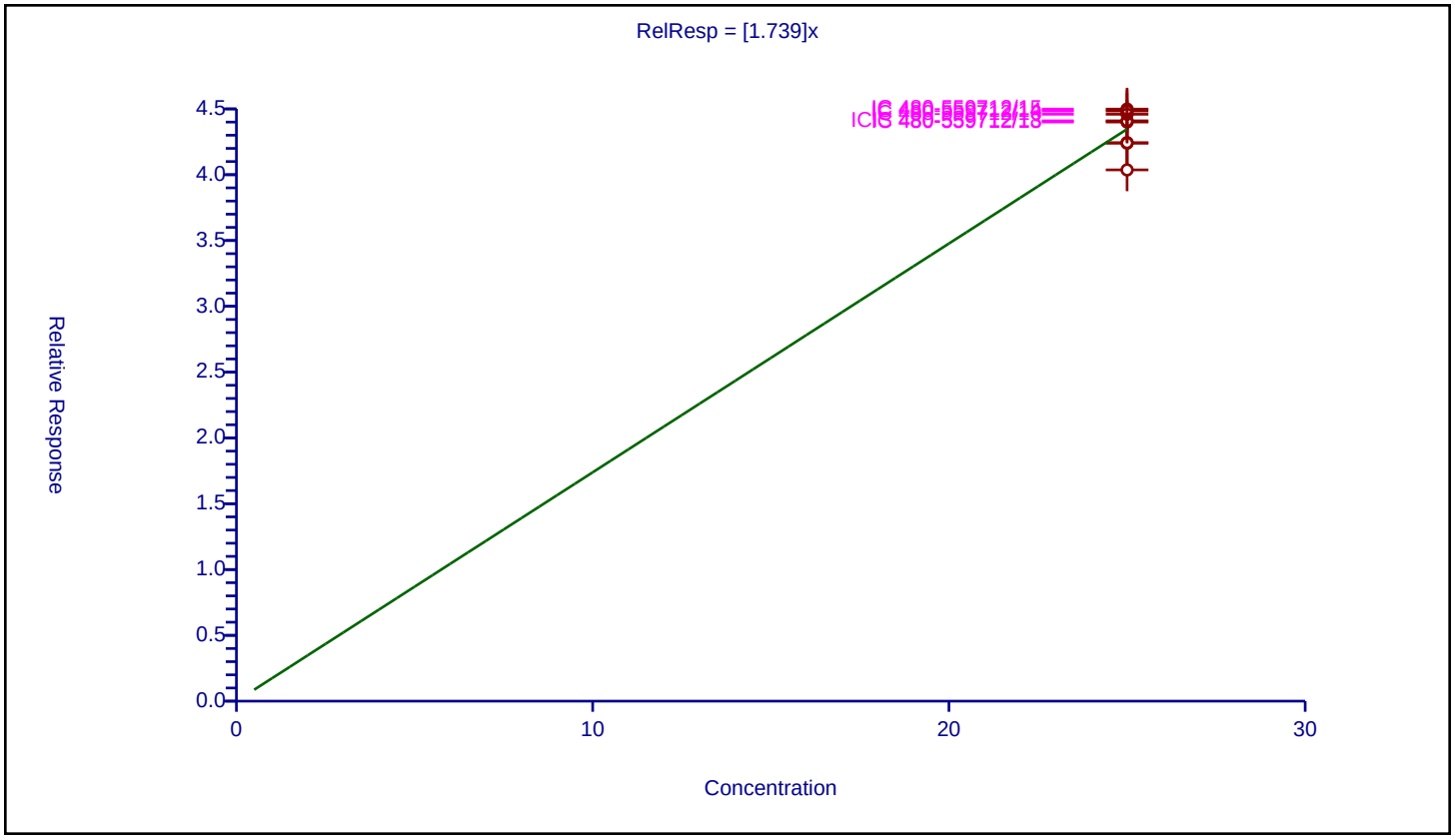
Curve Coefficients

Intercept:	0
Slope:	1.739

Error Coefficients

Standard Error:	366000
Relative Standard Error:	3.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	25.0	44.002411	25.0	197050.0	1.760096	Y
2	IC 480-559712/14	25.0	44.837851	25.0	191892.0	1.793514	Y
3	IC 480-559712/15	25.0	44.983725	25.0	190166.0	1.799349	Y
4	IC 480-559712/16	25.0	44.593165	25.0	193260.0	1.783727	Y
5	IC 480-559712/17	25.0	42.437069	25.0	196921.0	1.697483	Y
6	ICIS 480-559712/18	25.0	44.094748	25.0	200563.0	1.76379	Y
7	IC 480-559712/19	25.0	42.393956	25.0	202510.0	1.695758	Y
8	IC 480-559712/20	25.0	40.364939	25.0	203089.0	1.614598	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

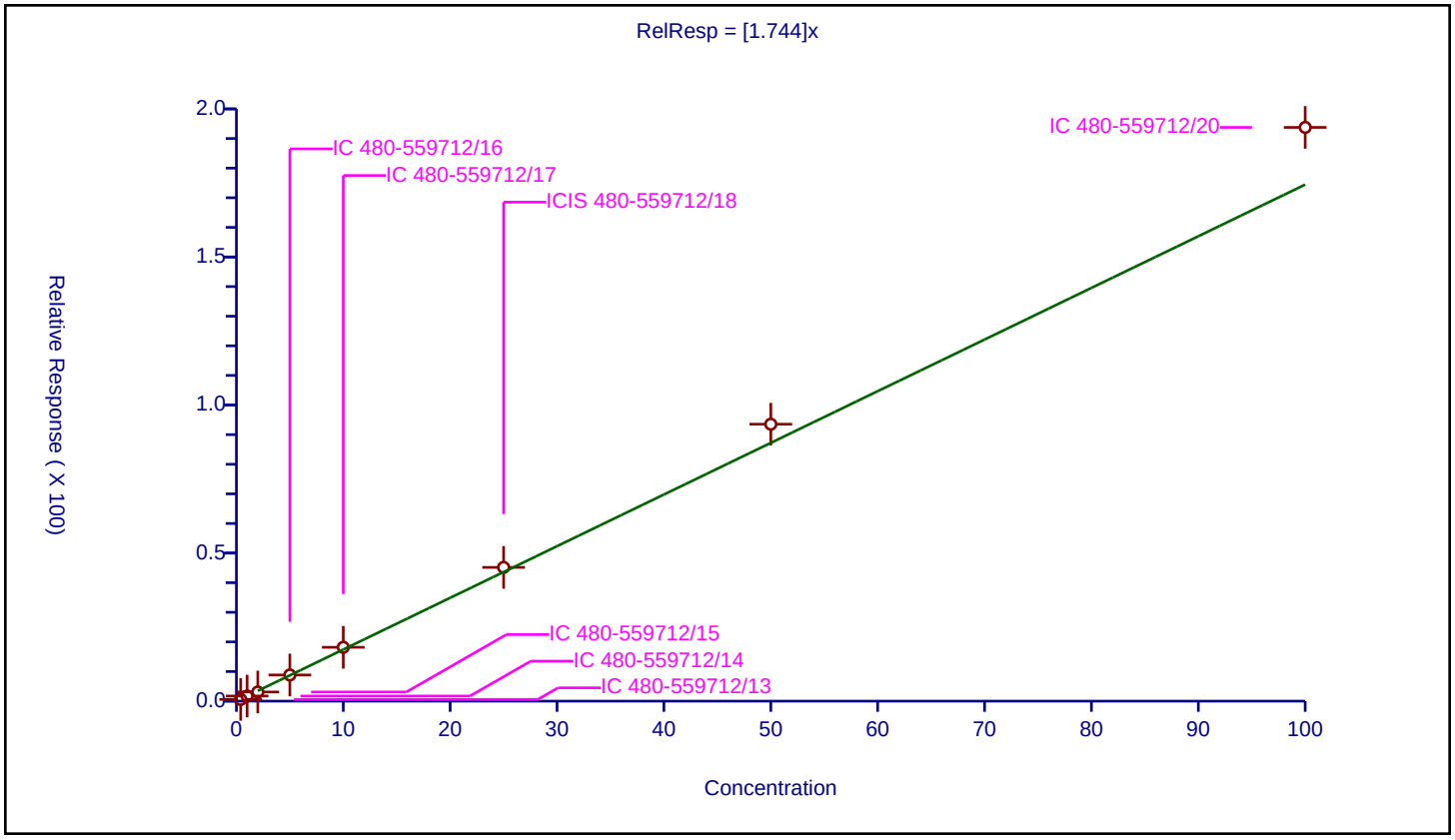
Curve Coefficients

Intercept:	0
Slope:	1.744

Error Coefficients

Standard Error:	677000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.590206	25.0	197050.0	1.475514	Y
2	IC 480-559712/14	1.0	1.728967	25.0	191892.0	1.728967	Y
3	IC 480-559712/15	2.0	3.101369	25.0	190166.0	1.550685	Y
4	IC 480-559712/16	5.0	8.836024	25.0	193260.0	1.767205	Y
5	IC 480-559712/17	10.0	18.185338	25.0	196921.0	1.818534	Y
6	ICIS 480-559712/18	25.0	45.167229	25.0	200563.0	1.806689	Y
7	IC 480-559712/19	50.0	93.522666	25.0	202510.0	1.870453	Y
8	IC 480-559712/20	100.0	193.746215	25.0	203089.0	1.937462	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

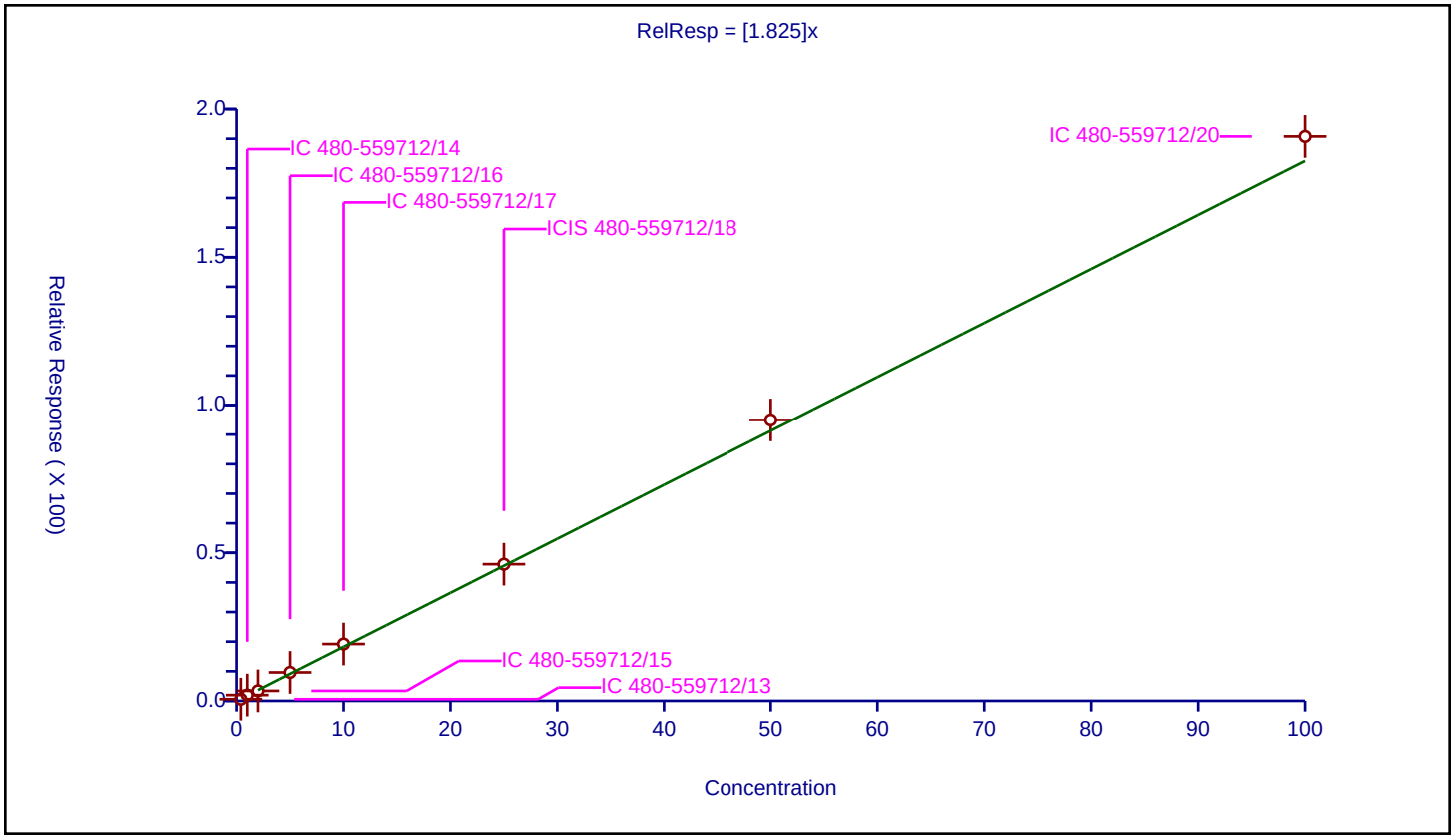
Curve Coefficients

Intercept:	0
Slope:	1.825

Error Coefficients

Standard Error:	672000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.57625	25.0	197050.0	1.440624	Y
2	IC 480-559712/14	1.0	1.966862	25.0	191892.0	1.966862	Y
3	IC 480-559712/15	2.0	3.392825	25.0	190166.0	1.696413	Y
4	IC 480-559712/16	5.0	9.623305	25.0	193260.0	1.924661	Y
5	IC 480-559712/17	10.0	19.195388	25.0	196921.0	1.919539	Y
6	ICIS 480-559712/18	25.0	46.162178	25.0	200563.0	1.846487	Y
7	IC 480-559712/19	50.0	94.956669	25.0	202510.0	1.899133	Y
8	IC 480-559712/20	100.0	190.777935	25.0	203089.0	1.907779	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

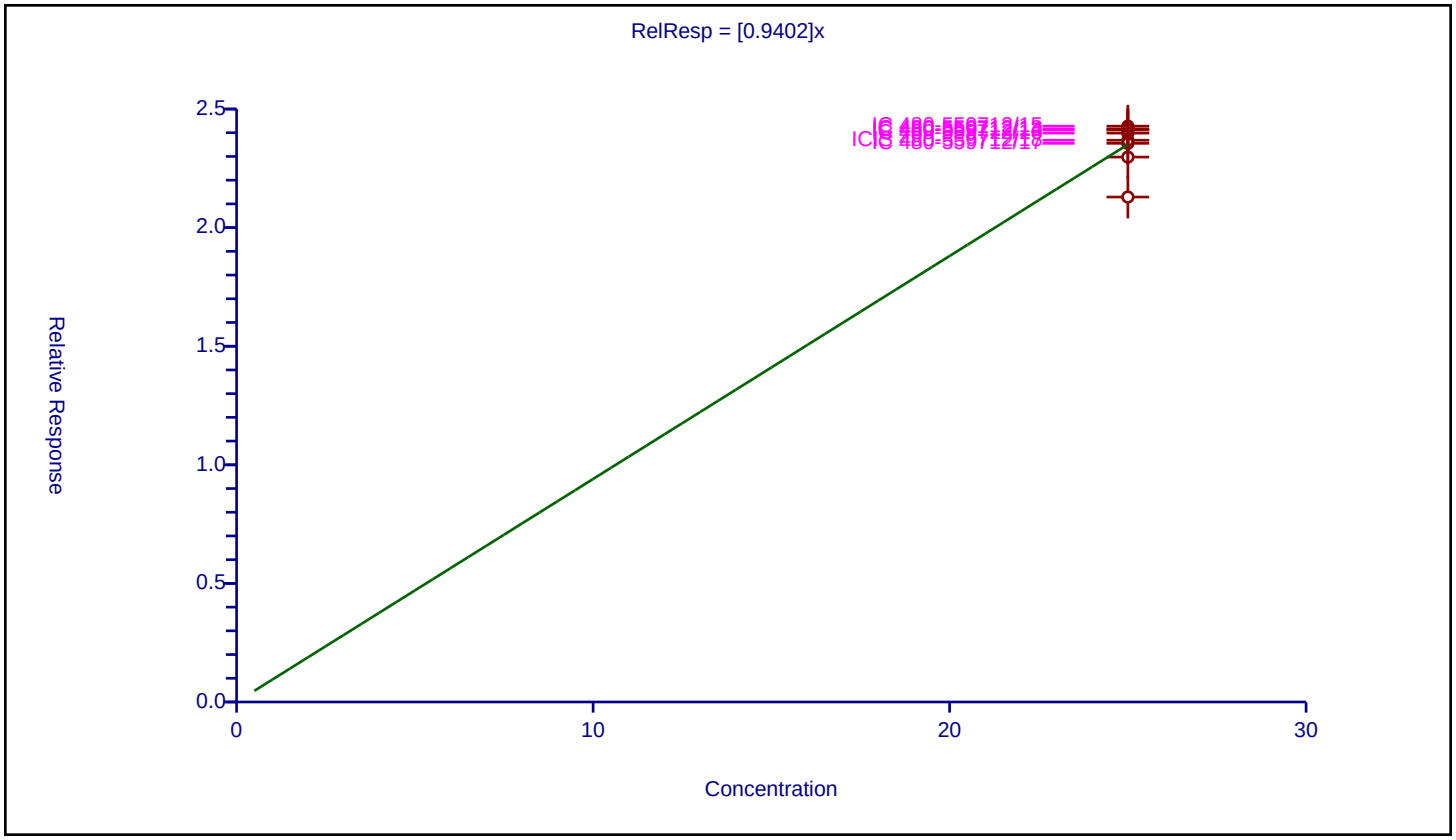
Curve Coefficients

Intercept:	0
Slope:	0.9402

Error Coefficients

Standard Error:	198000
Relative Standard Error:	4.2
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	25.0	24.154276	25.0	197050.0	0.966171	Y
2	IC 480-559712/14	25.0	24.118384	25.0	191892.0	0.964735	Y
3	IC 480-559712/15	25.0	24.27721	25.0	190166.0	0.971088	Y
4	IC 480-559712/16	25.0	23.98427	25.0	193260.0	0.959371	Y
5	IC 480-559712/17	25.0	23.553354	25.0	196921.0	0.942134	Y
6	ICIS 480-559712/18	25.0	23.683955	25.0	200563.0	0.947358	Y
7	IC 480-559712/19	25.0	22.974051	25.0	202510.0	0.918962	Y
8	IC 480-559712/20	25.0	21.289681	25.0	203089.0	0.851587	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

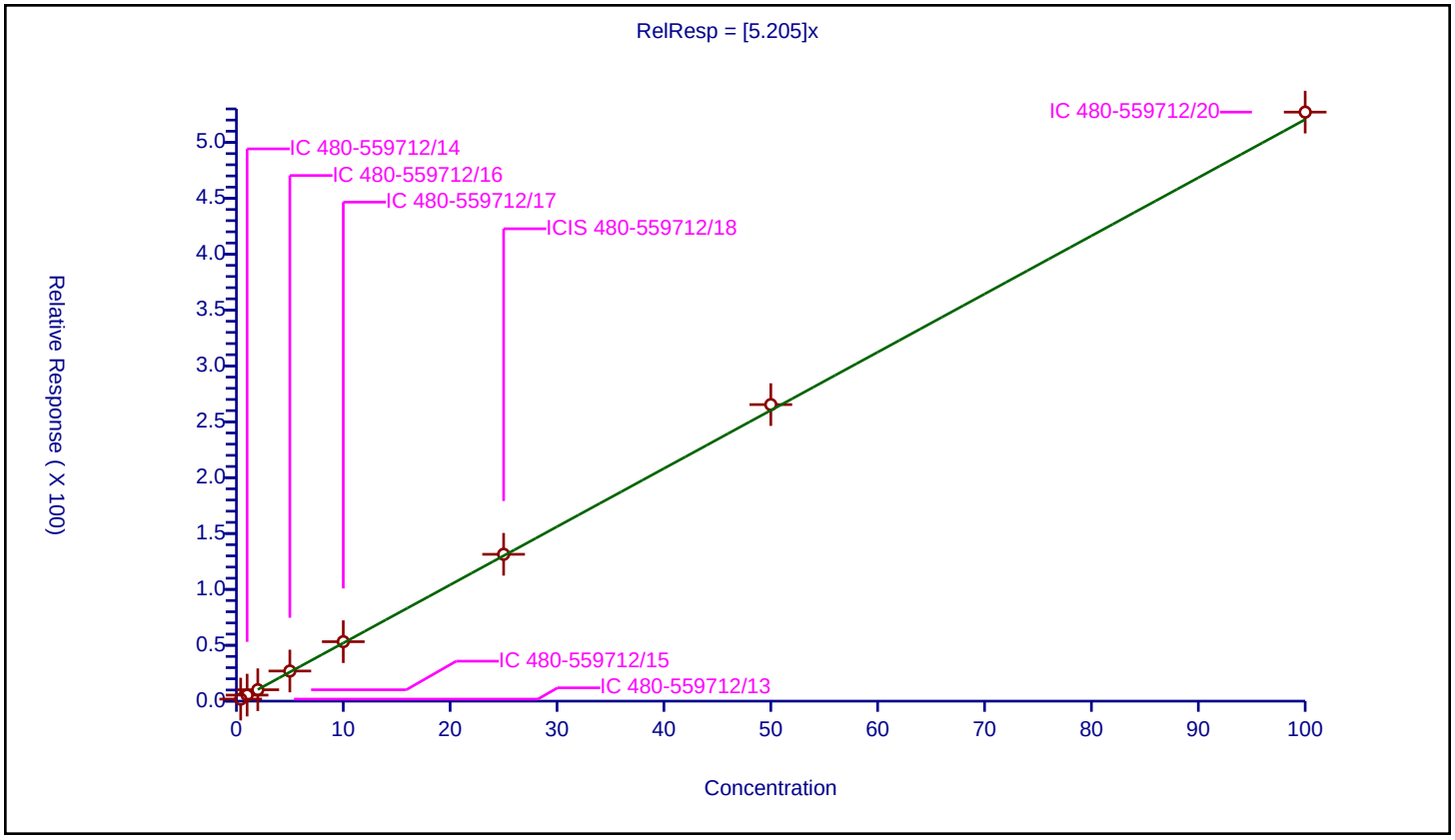
Curve Coefficients

Intercept:	0
Slope:	5.205

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.828216	25.0	197050.0	4.57054	Y
2	IC 480-559712/14	1.0	5.416588	25.0	191892.0	5.416588	Y
3	IC 480-559712/15	2.0	10.206477	25.0	190166.0	5.103239	Y
4	IC 480-559712/16	5.0	26.957079	25.0	193260.0	5.391416	Y
5	IC 480-559712/17	10.0	53.229722	25.0	196921.0	5.322972	Y
6	ICIS 480-559712/18	25.0	131.424665	25.0	200563.0	5.256987	Y
7	IC 480-559712/19	50.0	265.382697	25.0	202510.0	5.307654	Y
8	IC 480-559712/20	100.0	527.124315	25.0	203089.0	5.271243	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

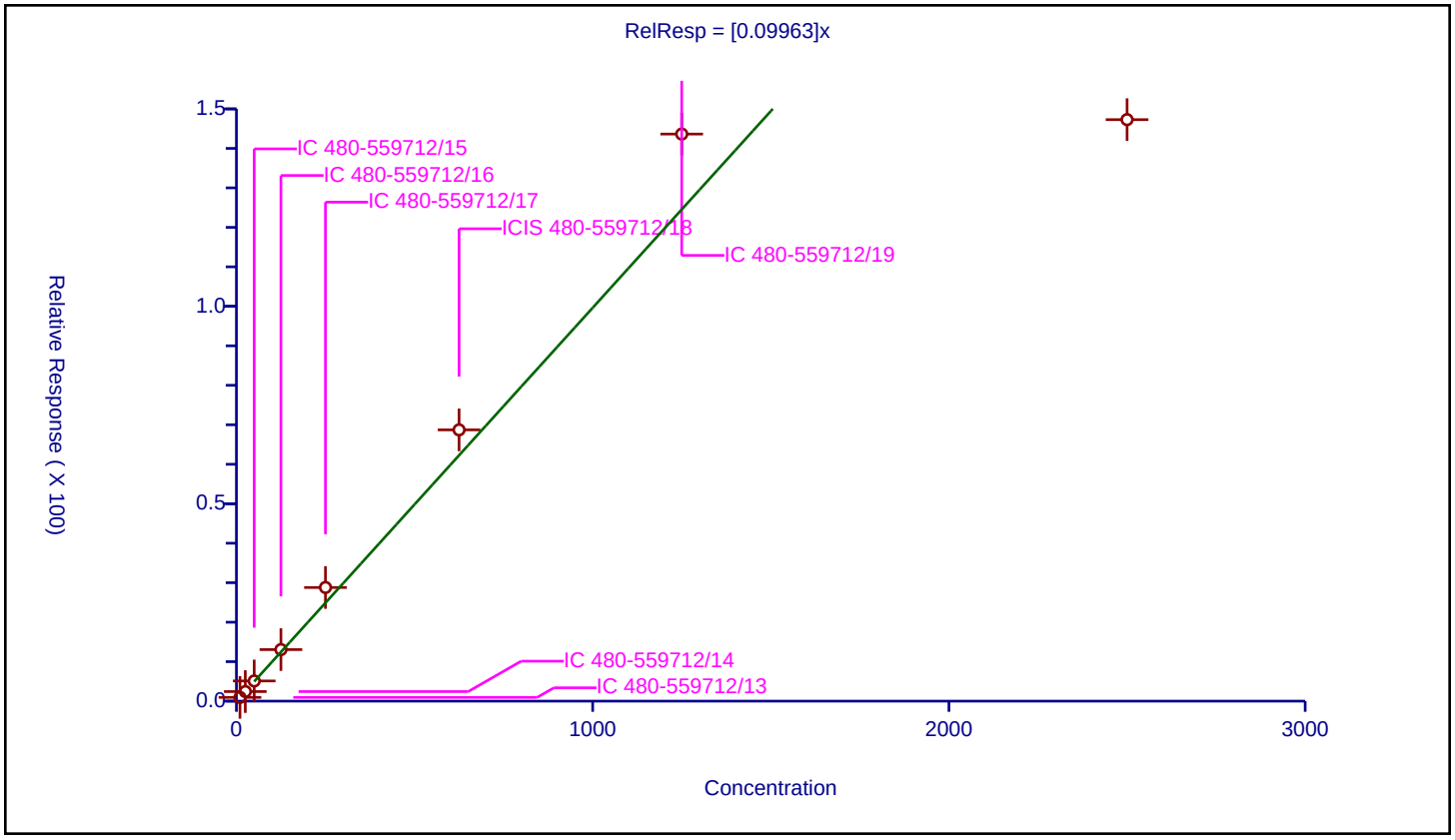
Curve Coefficients

Intercept:	0
Slope:	0.09963

Error Coefficients

Standard Error:	671000
Relative Standard Error:	18.2
Correlation Coefficient:	0.856
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	10.0	0.944557	25.0	197050.0	0.094456	Y
2	IC 480-559712/14	25.0	2.425844	25.0	191892.0	0.097034	Y
3	IC 480-559712/15	50.0	5.1083	25.0	190166.0	0.102166	Y
4	IC 480-559712/16	125.0	13.058186	25.0	193260.0	0.104465	Y
5	IC 480-559712/17	250.0	28.787306	25.0	196921.0	0.115149	Y
6	ICIS 480-559712/18	625.0	68.709458	25.0	200563.0	0.109935	Y
7	IC 480-559712/19	1250.0	143.626241	25.0	202510.0	0.114901	Y
8	IC 480-559712/20	2500.0	147.282103	25.0	203089.0	0.058913	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

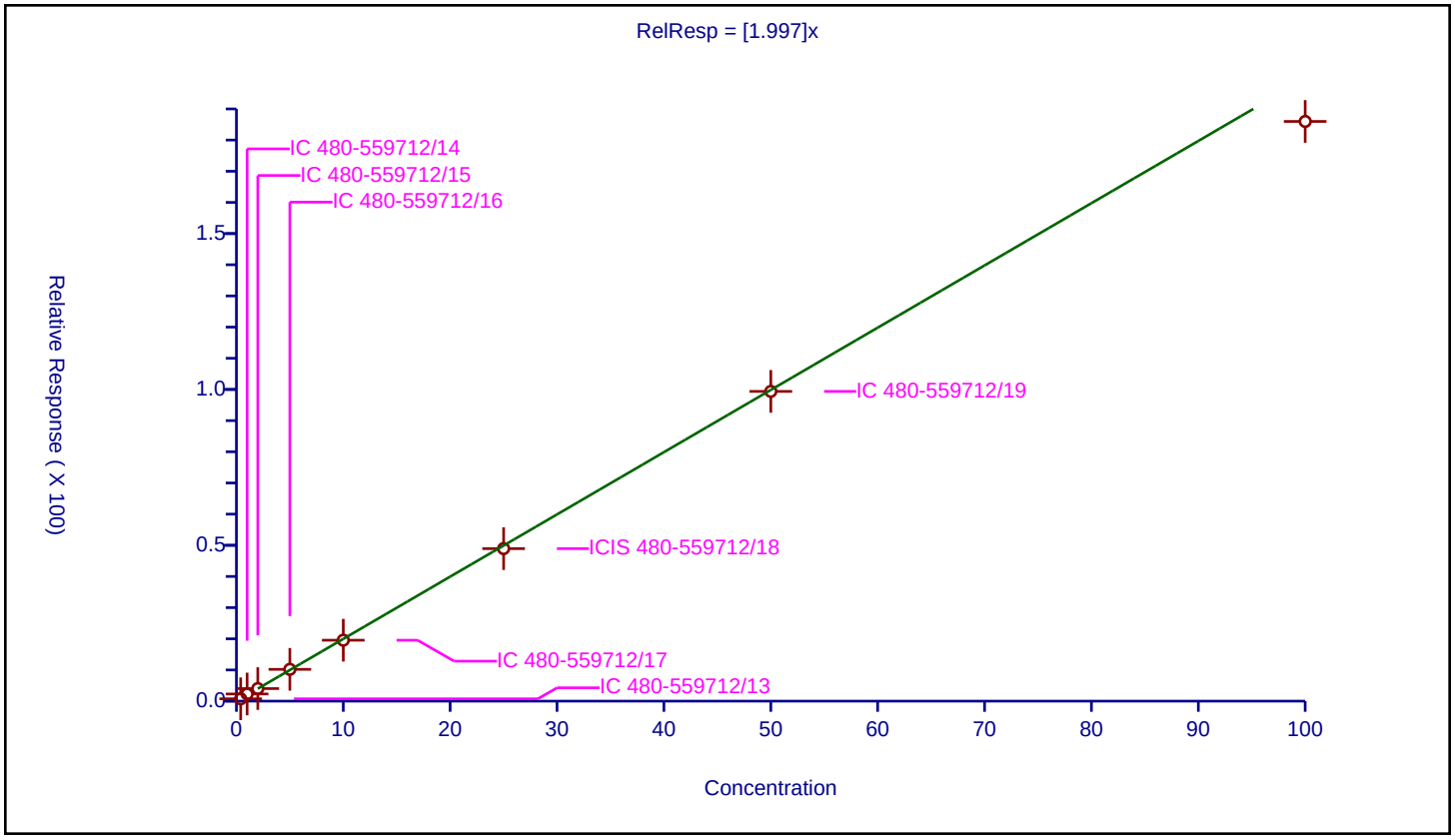
Curve Coefficients

Intercept:	0
Slope:	1.997

Error Coefficients

Standard Error:	667000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.748541	25.0	197050.0	1.871352	Y
2	IC 480-559712/14	1.0	2.291263	25.0	191892.0	2.291263	Y
3	IC 480-559712/15	2.0	4.025693	25.0	190166.0	2.012847	Y
4	IC 480-559712/16	5.0	10.198567	25.0	193260.0	2.039713	Y
5	IC 480-559712/17	10.0	19.554796	25.0	196921.0	1.95548	Y
6	ICIS 480-559712/18	25.0	48.931882	25.0	200563.0	1.957275	Y
7	IC 480-559712/19	50.0	99.368179	25.0	202510.0	1.987364	Y
8	IC 480-559712/20	100.0	185.975114	25.0	203089.0	1.859751	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

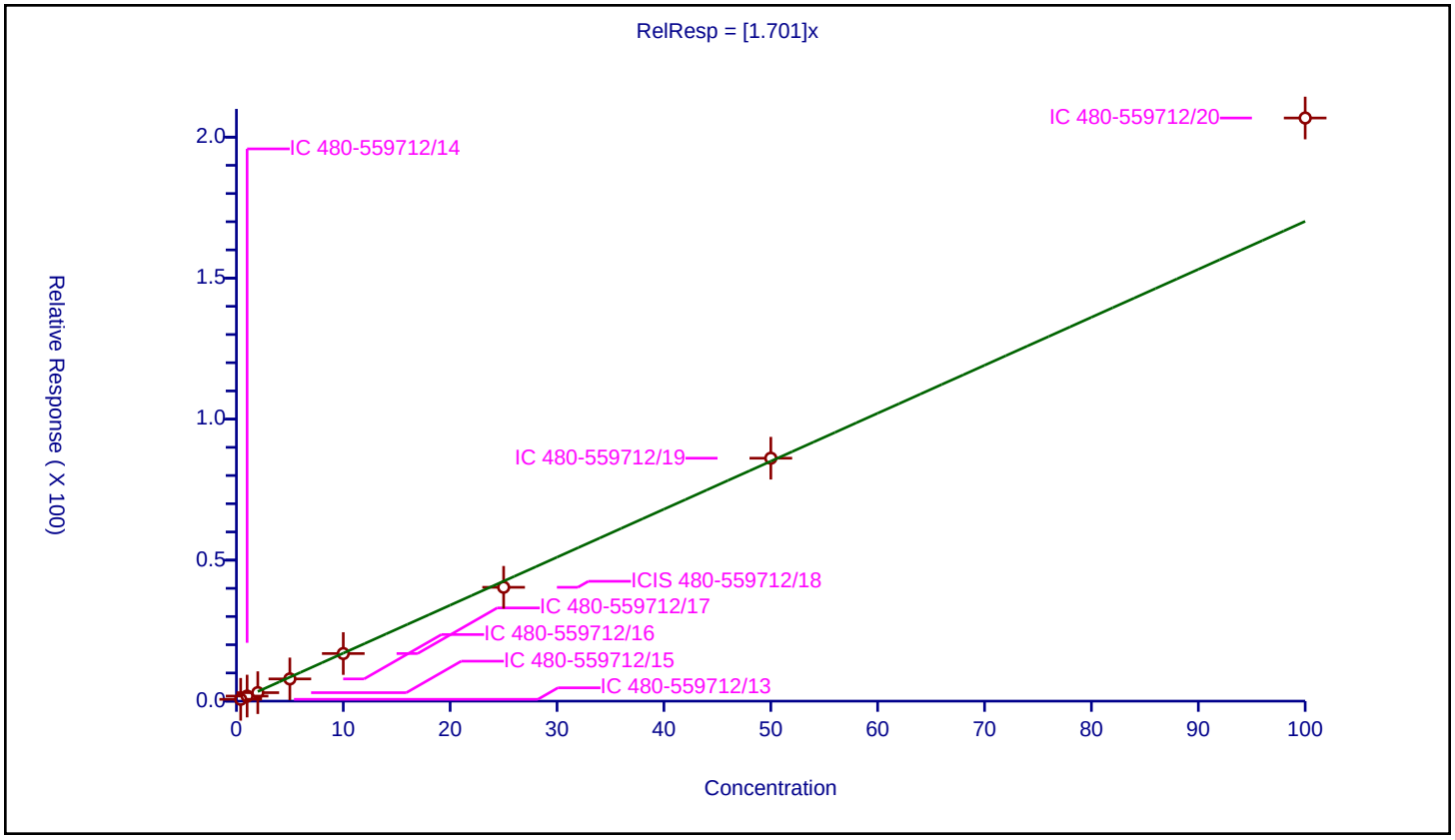
Curve Coefficients

Intercept:	0
Slope:	1.701

Error Coefficients

Standard Error:	700000
Relative Standard Error:	10.1
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.653261	25.0	197050.0	1.633151	Y
2	IC 480-559712/14	1.0	1.797756	25.0	191892.0	1.797756	Y
3	IC 480-559712/15	2.0	3.019467	25.0	190166.0	1.509734	Y
4	IC 480-559712/16	5.0	7.885362	25.0	193260.0	1.577072	Y
5	IC 480-559712/17	10.0	16.87758	25.0	196921.0	1.687758	Y
6	ICIS 480-559712/18	25.0	40.377712	25.0	200563.0	1.615108	Y
7	IC 480-559712/19	50.0	86.14624	25.0	202510.0	1.722925	Y
8	IC 480-559712/20	100.0	206.774247	25.0	203089.0	2.067742	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

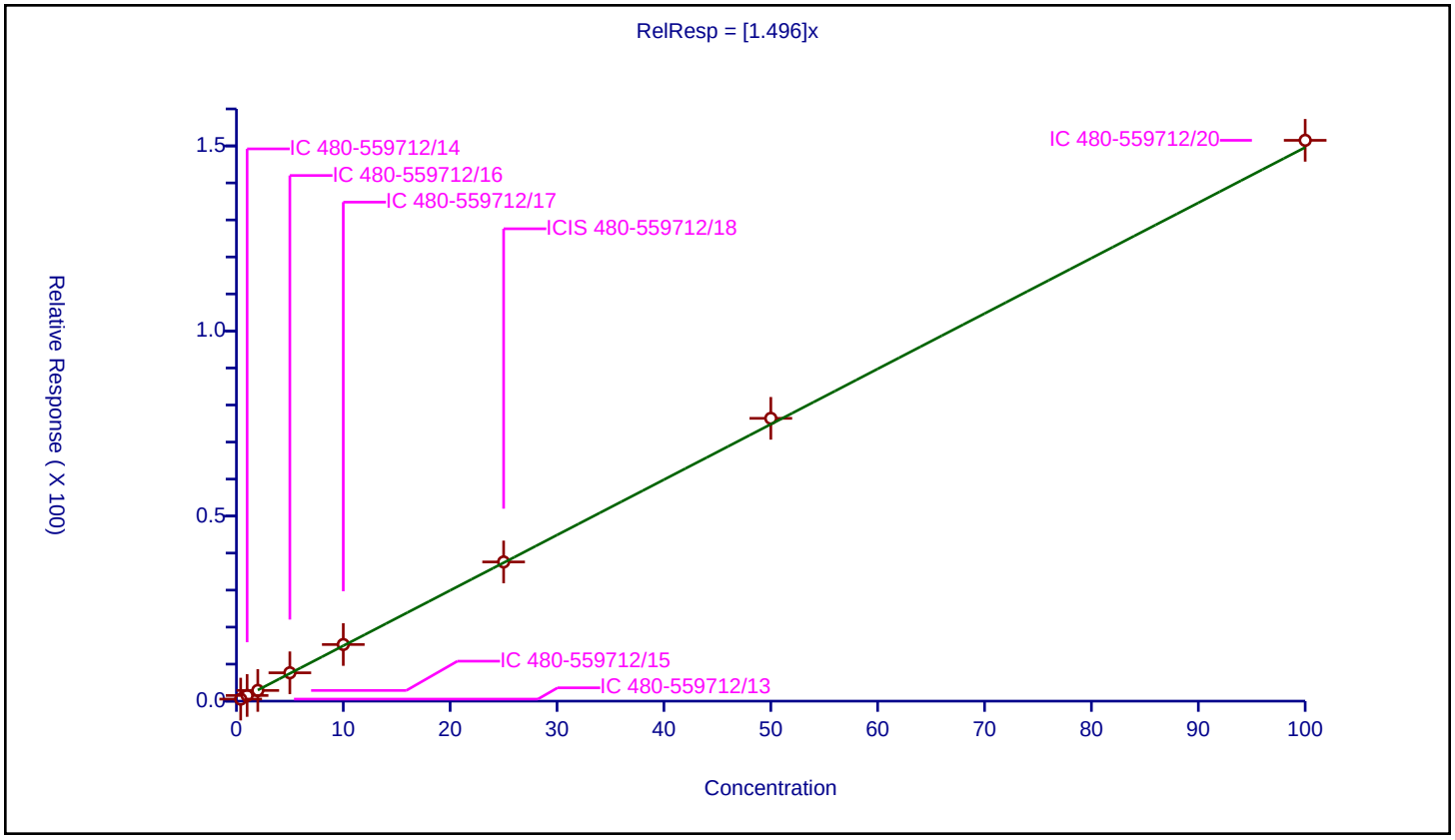
Curve Coefficients

Intercept:	0
Slope:	1.496

Error Coefficients

Standard Error:	535000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.552778	25.0	197050.0	1.381946	Y
2	IC 480-559712/14	1.0	1.527943	25.0	191892.0	1.527943	Y
3	IC 480-559712/15	2.0	2.896417	25.0	190166.0	1.448208	Y
4	IC 480-559712/16	5.0	7.660018	25.0	193260.0	1.532004	Y
5	IC 480-559712/17	10.0	15.302075	25.0	196921.0	1.530208	Y
6	ICIS 480-559712/18	25.0	37.60938	25.0	200563.0	1.504375	Y
7	IC 480-559712/19	50.0	76.403264	25.0	202510.0	1.528065	Y
8	IC 480-559712/20	100.0	151.507836	25.0	203089.0	1.515078	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

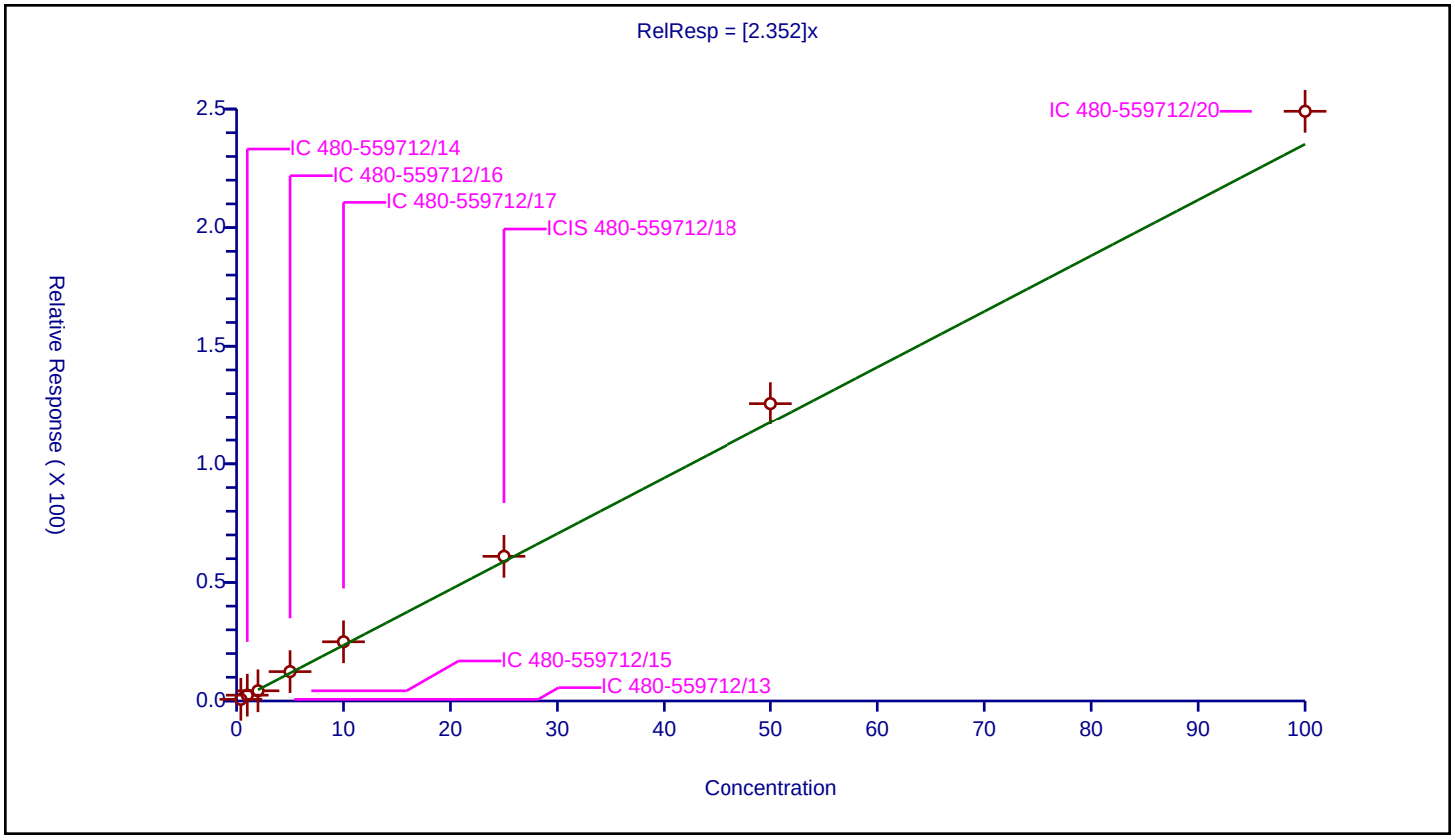
Curve Coefficients

Intercept:	0
Slope:	2.352

Error Coefficients

Standard Error:	880000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.71289	25.0	197050.0	1.782225	Y
2	IC 480-559712/14	1.0	2.46128	25.0	191892.0	2.46128	Y
3	IC 480-559712/15	2.0	4.302031	25.0	190166.0	2.151015	Y
4	IC 480-559712/16	5.0	12.388233	25.0	193260.0	2.477647	Y
5	IC 480-559712/17	10.0	24.962168	25.0	196921.0	2.496217	Y
6	ICIS 480-559712/18	25.0	60.996794	25.0	200563.0	2.439872	Y
7	IC 480-559712/19	50.0	125.785517	25.0	202510.0	2.51571	Y
8	IC 480-559712/20	100.0	249.059033	25.0	203089.0	2.49059	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

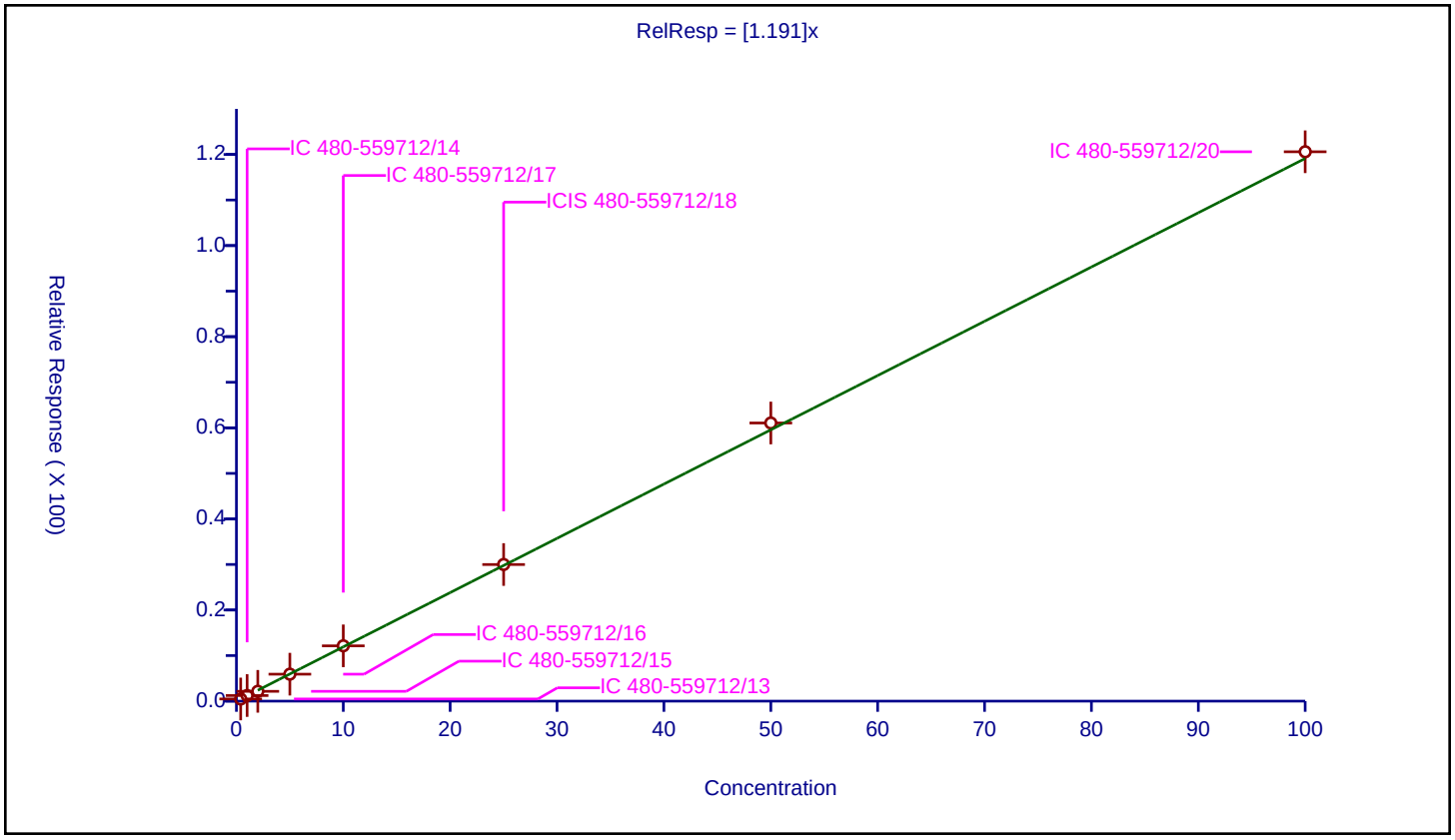
Curve Coefficients

Intercept:	0
Slope:	1.191

Error Coefficients

Standard Error:	427000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.476148	25.0	197050.0	1.19037	Y
2	IC 480-559712/14	1.0	1.231161	25.0	191892.0	1.231161	Y
3	IC 480-559712/15	2.0	2.162321	25.0	190166.0	1.081161	Y
4	IC 480-559712/16	5.0	5.926343	25.0	193260.0	1.185269	Y
5	IC 480-559712/17	10.0	12.148146	25.0	196921.0	1.214815	Y
6	ICIS 480-559712/18	25.0	29.994067	25.0	200563.0	1.199763	Y
7	IC 480-559712/19	50.0	61.055503	25.0	202510.0	1.22111	Y
8	IC 480-559712/20	100.0	120.590726	25.0	203089.0	1.205907	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

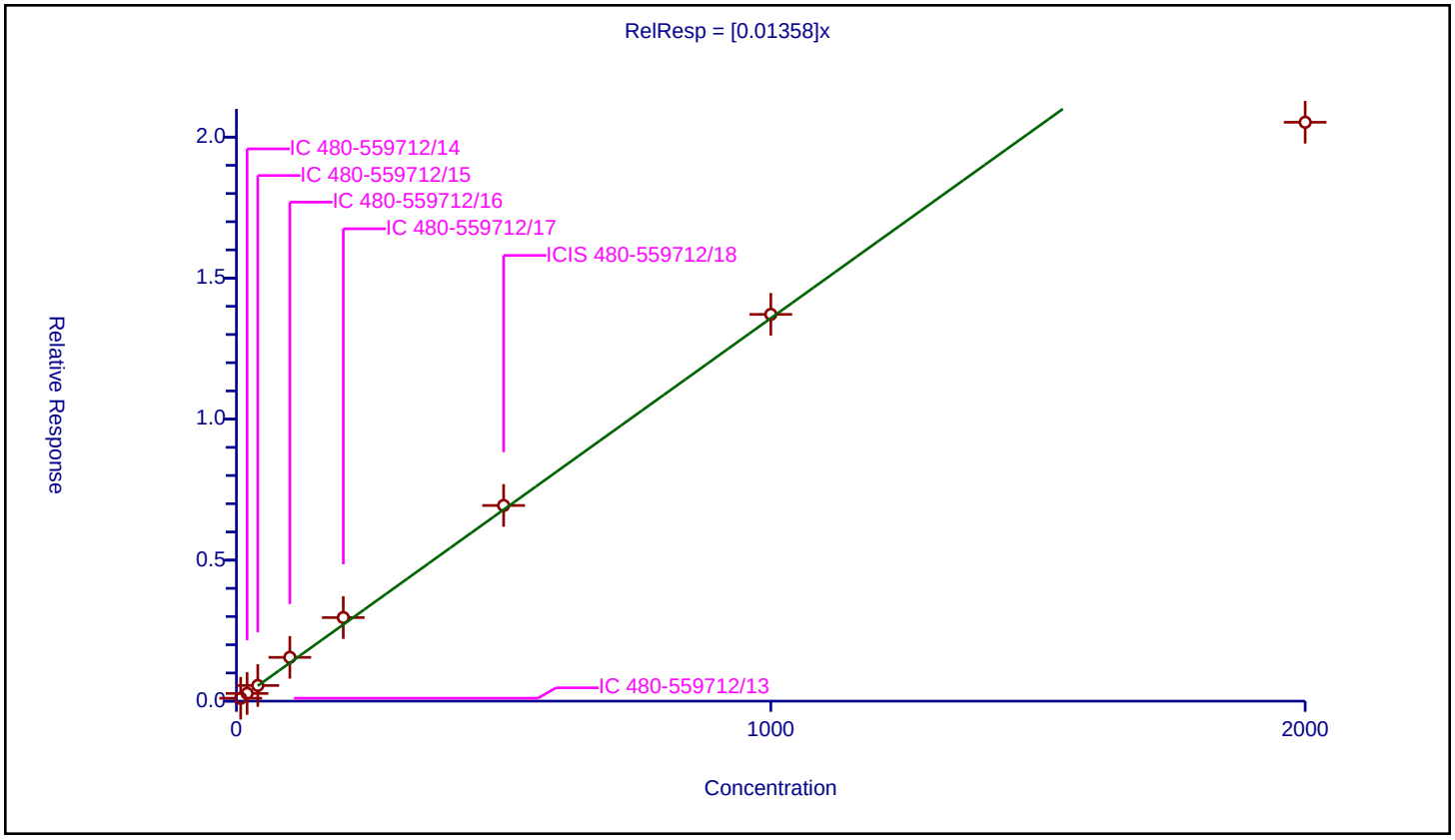
Curve Coefficients

Intercept:	0
Slope:	0.01358

Error Coefficients

Standard Error:	153000
Relative Standard Error:	11.5
Correlation Coefficient:	0.976
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	8.0	0.103071	25.0	363583.0	0.012884	Y
2	IC 480-559712/14	20.0	0.272965	25.0	363234.0	0.013648	Y
3	IC 480-559712/15	40.0	0.555708	25.0	360621.0	0.013893	Y
4	IC 480-559712/16	100.0	1.553427	25.0	367864.0	0.015534	Y
5	IC 480-559712/17	200.0	2.96358	25.0	381962.0	0.014818	Y
6	ICIS 480-559712/18	500.0	6.937681	25.0	389943.0	0.013875	Y
7	IC 480-559712/19	1000.0	13.714823	25.0	391981.0	0.013715	Y
8	IC 480-559712/20	2000.0	20.52573	25.0	393310.0	0.010263	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

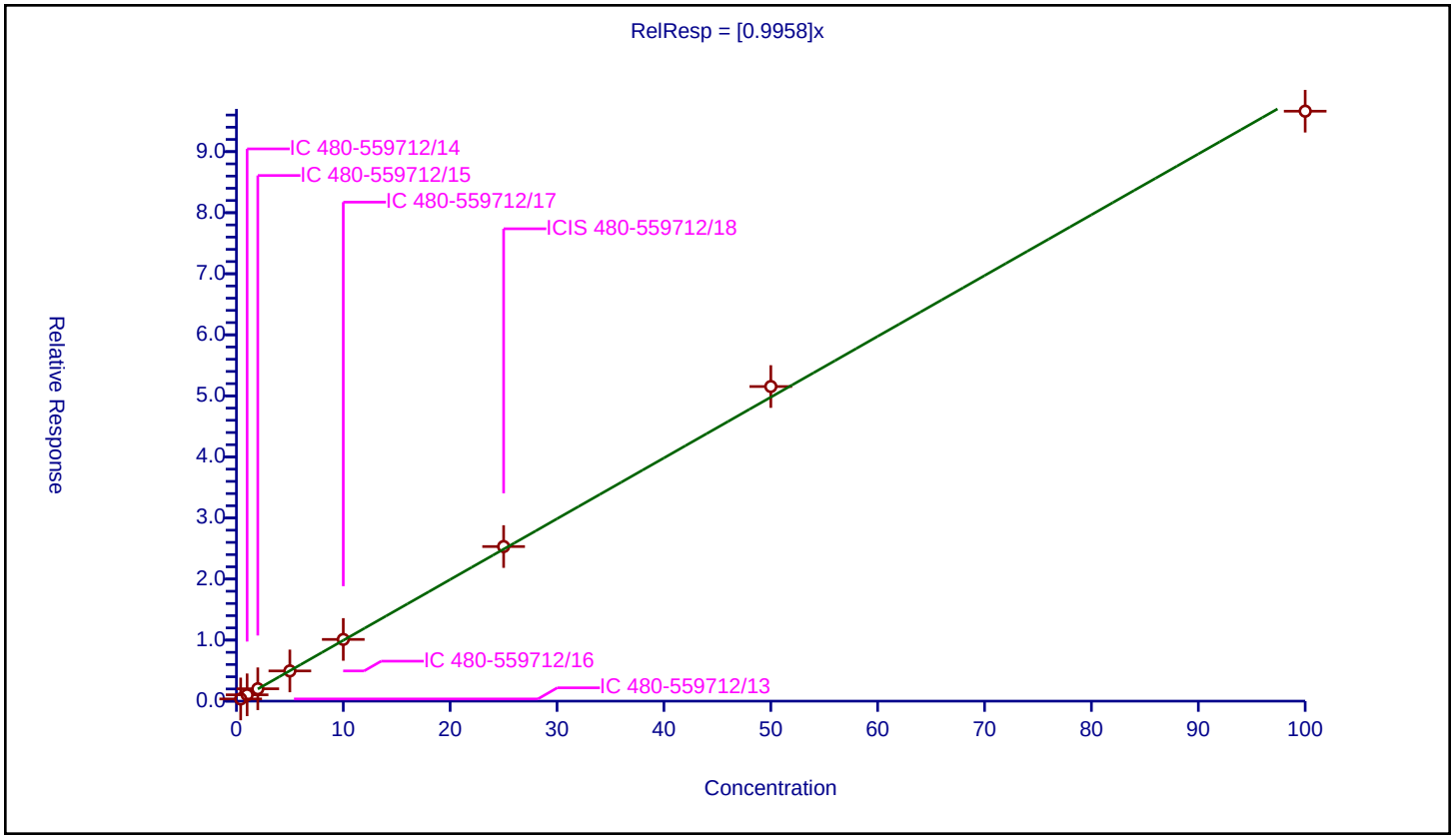
Curve Coefficients

Intercept:	0
Slope:	0.9958

Error Coefficients

Standard Error:	346000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.362979	25.0	197050.0	0.907447	Y
2	IC 480-559712/14	1.0	1.035478	25.0	191892.0	1.035478	Y
3	IC 480-559712/15	2.0	2.025073	25.0	190166.0	1.012536	Y
4	IC 480-559712/16	5.0	4.950585	25.0	193260.0	0.990117	Y
5	IC 480-559712/17	10.0	10.109384	25.0	196921.0	1.010938	Y
6	ICIS 480-559712/18	25.0	25.318478	25.0	200563.0	1.012739	Y
7	IC 480-559712/19	50.0	51.532393	25.0	202510.0	1.030648	Y
8	IC 480-559712/20	100.0	96.630541	25.0	203089.0	0.966305	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

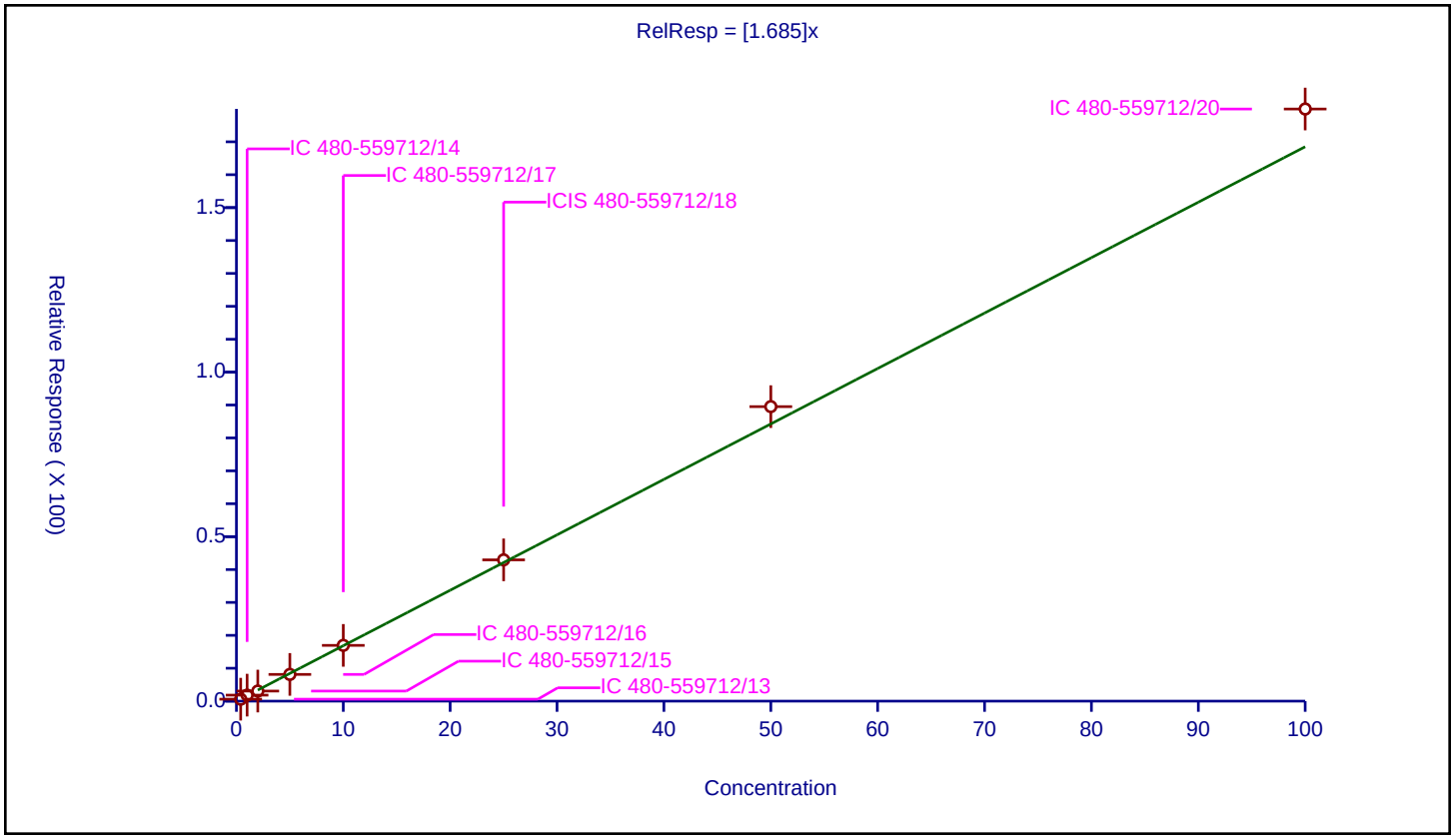
Curve Coefficients

Intercept:	0
Slope:	1.685

Error Coefficients

Standard Error:	633000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.598833	25.0	197050.0	1.497082	Y
2	IC 480-559712/14	1.0	1.821988	25.0	191892.0	1.821988	Y
3	IC 480-559712/15	2.0	3.067057	25.0	190166.0	1.533529	Y
4	IC 480-559712/16	5.0	8.122089	25.0	193260.0	1.624418	Y
5	IC 480-559712/17	10.0	16.95261	25.0	196921.0	1.695261	Y
6	ICIS 480-559712/18	25.0	42.939874	25.0	200563.0	1.717595	Y
7	IC 480-559712/19	50.0	89.513481	25.0	202510.0	1.79027	Y
8	IC 480-559712/20	100.0	179.966911	25.0	203089.0	1.799669	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

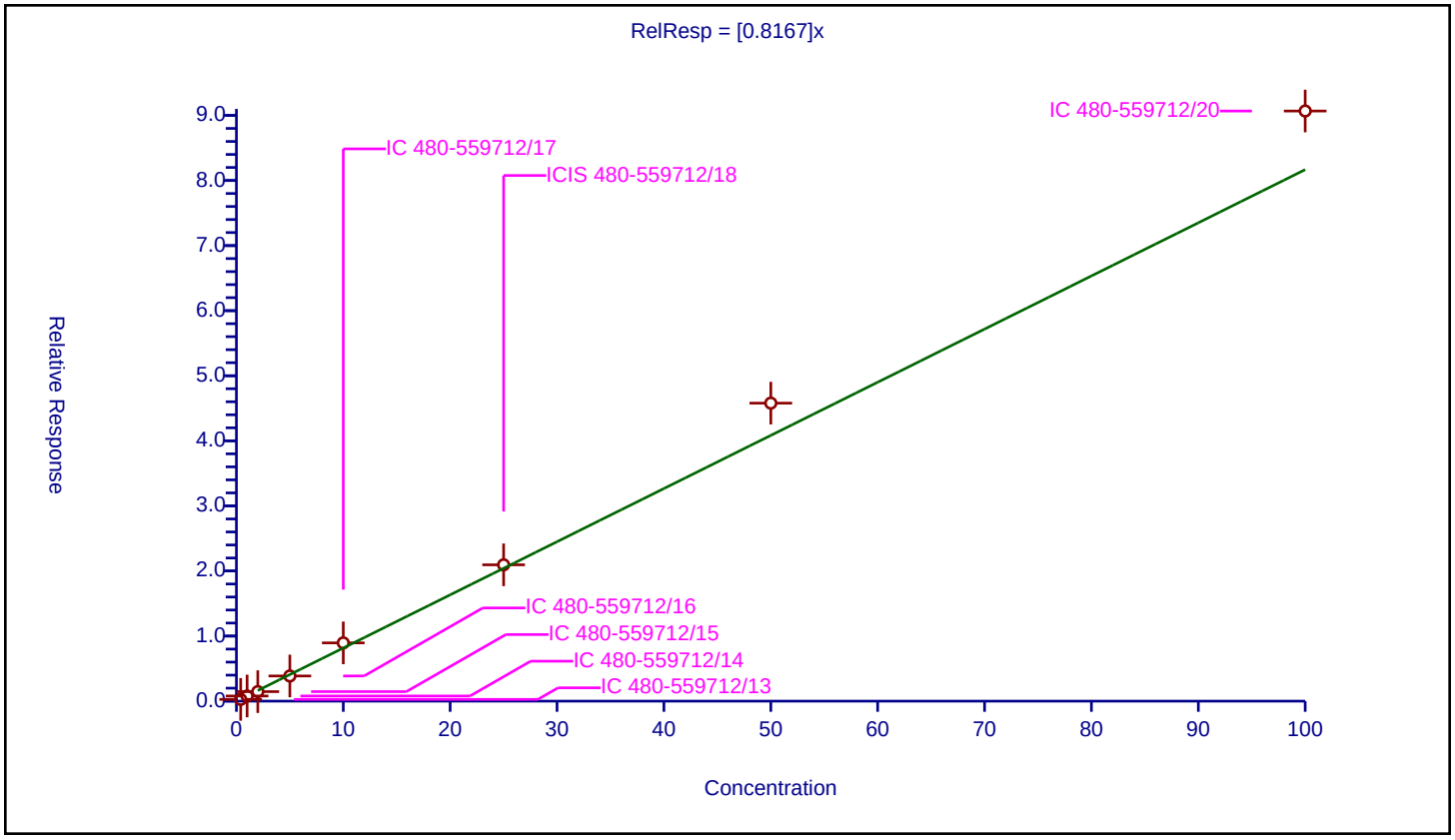
Curve Coefficients

Intercept:	0
Slope:	0.8167

Error Coefficients

Standard Error:	319000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.271251	25.0	197050.0	0.678127	Y
2	IC 480-559712/14	1.0	0.793545	25.0	191892.0	0.793545	Y
3	IC 480-559712/15	2.0	1.465693	25.0	190166.0	0.732847	Y
4	IC 480-559712/16	5.0	3.867588	25.0	193260.0	0.773518	Y
5	IC 480-559712/17	10.0	8.95029	25.0	196921.0	0.895029	Y
6	ICIS 480-559712/18	25.0	20.945912	25.0	200563.0	0.837836	Y
7	IC 480-559712/19	50.0	45.79206	25.0	202510.0	0.915841	Y
8	IC 480-559712/20	100.0	90.677856	25.0	203089.0	0.906779	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

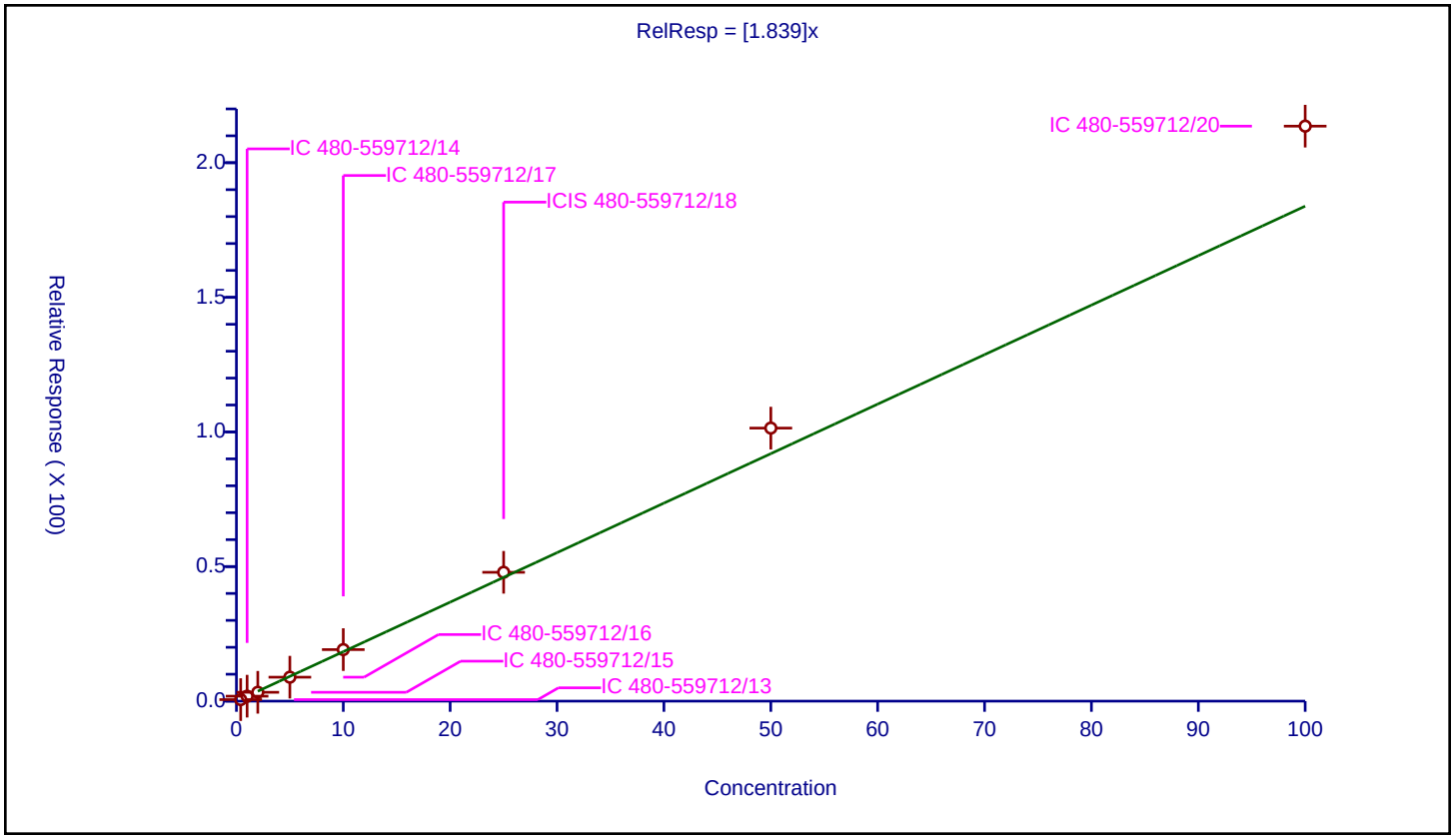
Curve Coefficients

Intercept:	0
Slope:	1.839

Error Coefficients

Standard Error:	743000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.57866	25.0	197050.0	1.446651	Y
2	IC 480-559712/14	1.0	1.845179	25.0	191892.0	1.845179	Y
3	IC 480-559712/15	2.0	3.287522	25.0	190166.0	1.643761	Y
4	IC 480-559712/16	5.0	8.902127	25.0	193260.0	1.780425	Y
5	IC 480-559712/17	10.0	19.146891	25.0	196921.0	1.914689	Y
6	ICIS 480-559712/18	25.0	47.870744	25.0	200563.0	1.91483	Y
7	IC 480-559712/19	50.0	101.43709	25.0	202510.0	2.028742	Y
8	IC 480-559712/20	100.0	213.596994	25.0	203089.0	2.13597	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

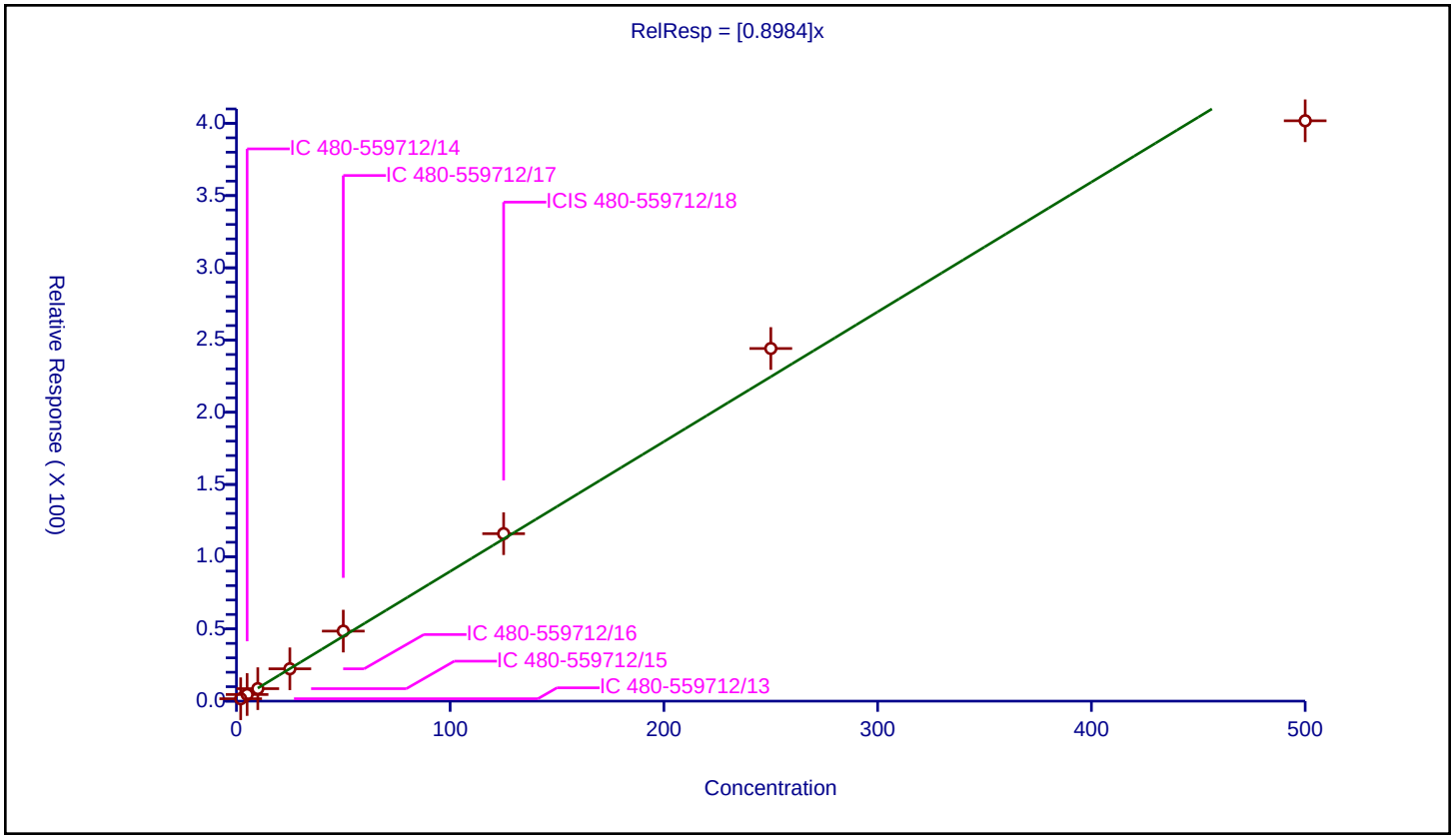
Curve Coefficients

Intercept:	0
Slope:	0.8984

Error Coefficients

Standard Error:	2890000
Relative Standard Error:	6.9
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	2.0	1.662619	25.0	363583.0	0.831309	Y
2	IC 480-559712/14	5.0	4.581482	25.0	363234.0	0.916296	Y
3	IC 480-559712/15	10.0	8.663458	25.0	360621.0	0.866346	Y
4	IC 480-559712/16	25.0	22.390544	25.0	367864.0	0.895622	Y
5	IC 480-559712/17	50.0	48.488789	25.0	381962.0	0.969776	Y
6	ICIS 480-559712/18	125.0	115.942458	25.0	389943.0	0.92754	Y
7	IC 480-559712/19	250.0	244.139257	25.0	391981.0	0.976557	Y
8	IC 480-559712/20	500.0	401.784725	25.0	393310.0	0.803569	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

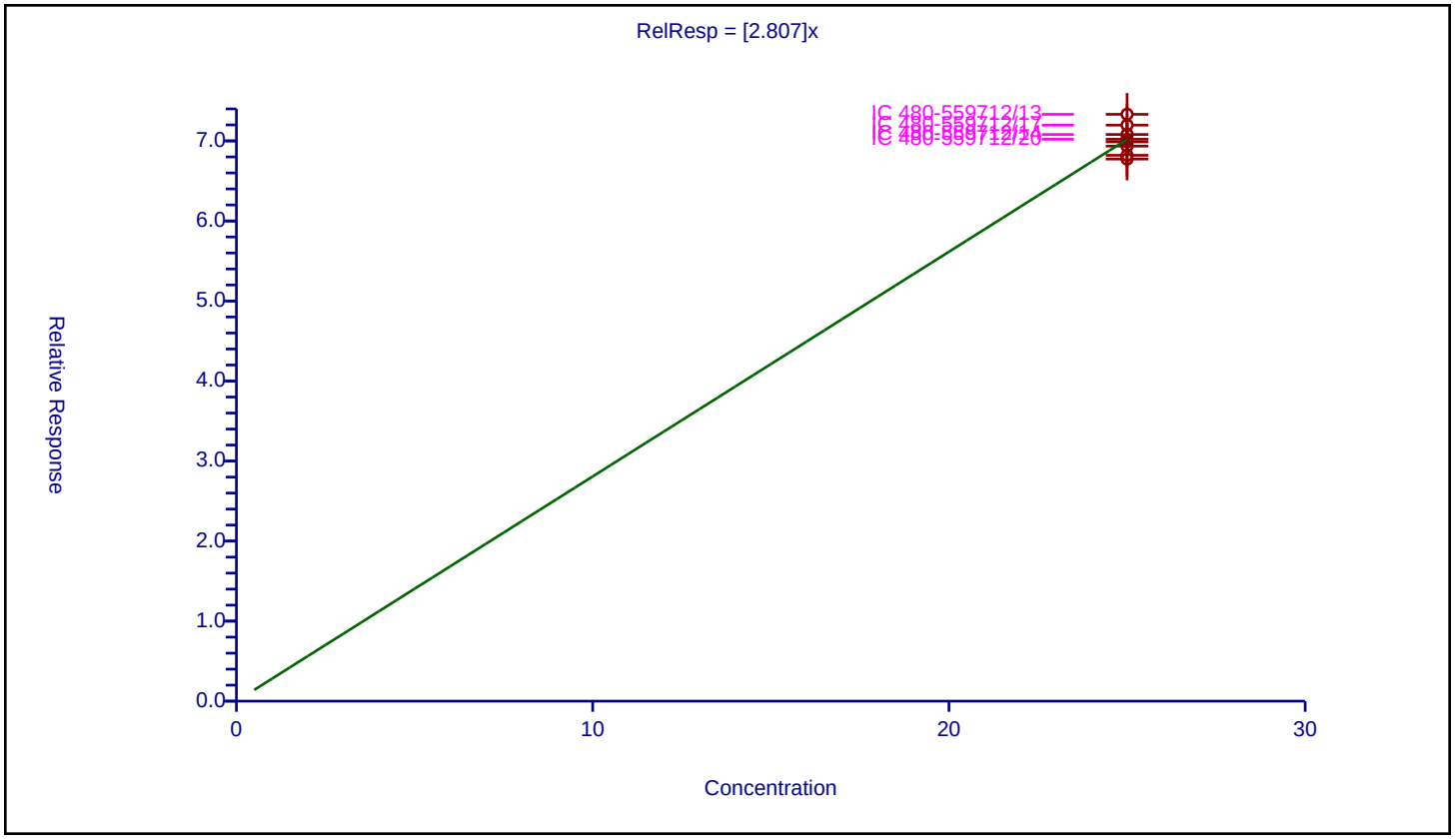
Curve Coefficients

Intercept:	0
Slope:	2.807

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	2.6
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	25.0	73.325348	25.0	363583.0	2.933014	Y
2	IC 480-559712/14	25.0	70.801949	25.0	363234.0	2.832078	Y
3	IC 480-559712/15	25.0	69.878557	25.0	360621.0	2.795142	Y
4	IC 480-559712/16	25.0	69.3473	25.0	367864.0	2.773892	Y
5	IC 480-559712/17	25.0	71.974765	25.0	381962.0	2.878991	Y
6	ICIS 480-559712/18	25.0	67.73381	25.0	389943.0	2.709352	Y
7	IC 480-559712/19	25.0	68.204199	25.0	391981.0	2.728168	Y
8	IC 480-559712/20	25.0	70.21408	25.0	393310.0	2.808563	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

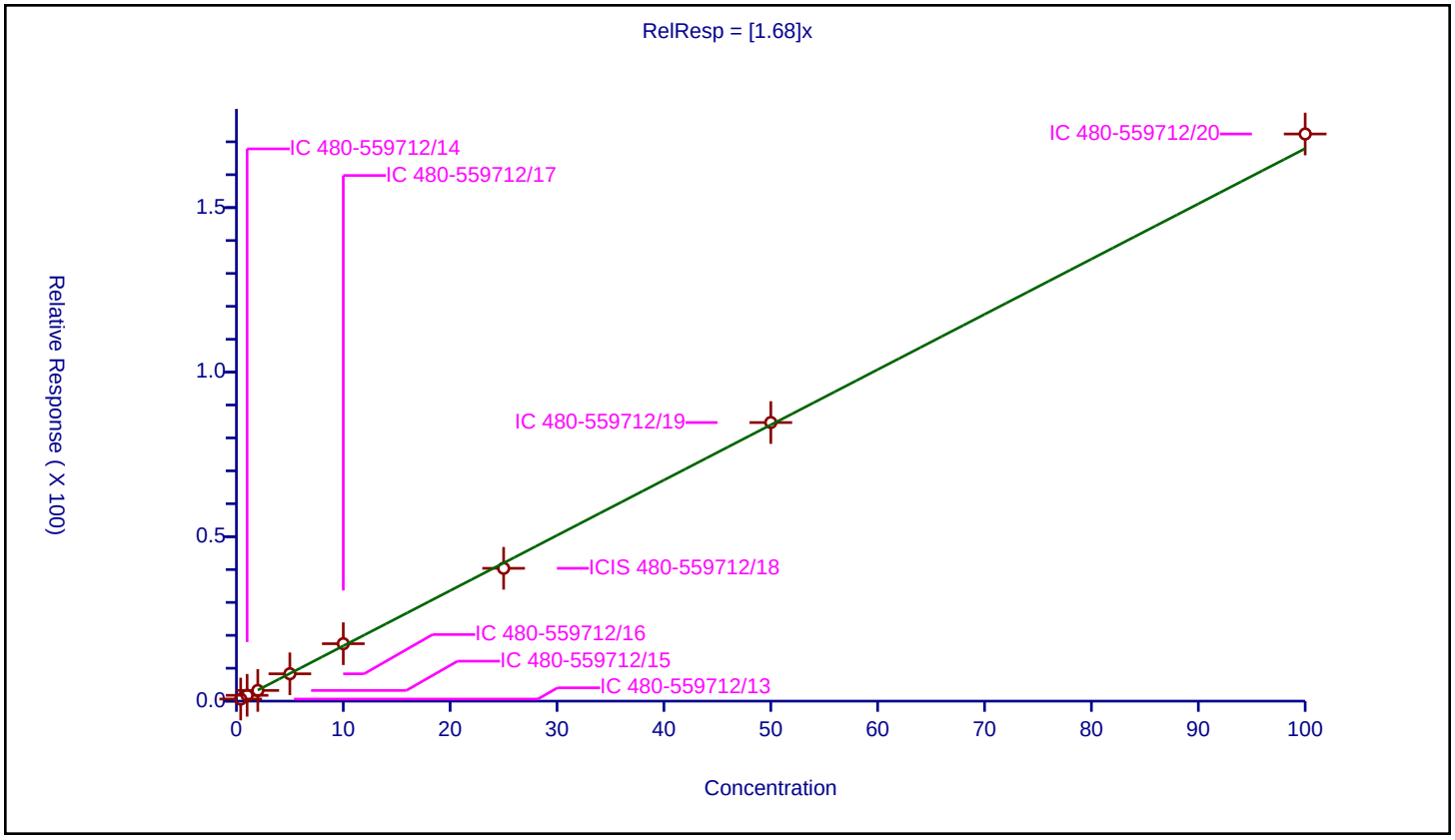
Curve Coefficients

Intercept:	0
Slope:	1.68

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.638506	25.0	363583.0	1.596266	Y
2	IC 480-559712/14	1.0	1.77544	25.0	363234.0	1.77544	Y
3	IC 480-559712/15	2.0	3.246552	25.0	360621.0	1.623276	Y
4	IC 480-559712/16	5.0	8.315981	25.0	367864.0	1.663196	Y
5	IC 480-559712/17	10.0	17.45514	25.0	381962.0	1.745514	Y
6	ICIS 480-559712/18	25.0	40.371926	25.0	389943.0	1.614877	Y
7	IC 480-559712/19	50.0	84.684079	25.0	391981.0	1.693682	Y
8	IC 480-559712/20	100.0	172.379993	25.0	393310.0	1.7238	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

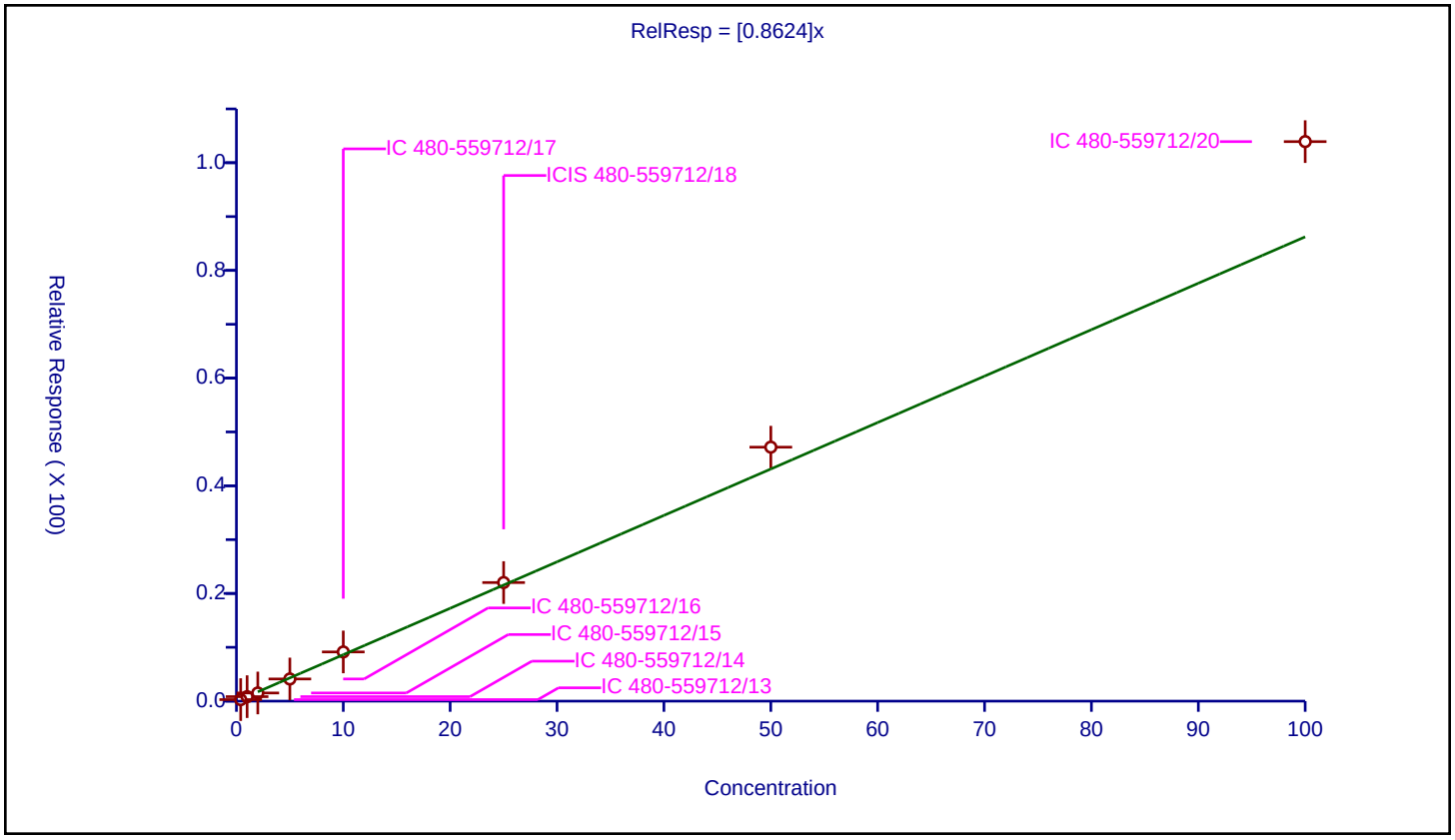
Curve Coefficients

Intercept:	0
Slope:	0.8624

Error Coefficients

Standard Error:	693000
Relative Standard Error:	12.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.282398	25.0	363583.0	0.705994	Y
2	IC 480-559712/14	1.0	0.832934	25.0	363234.0	0.832934	Y
3	IC 480-559712/15	2.0	1.518353	25.0	360621.0	0.759177	Y
4	IC 480-559712/16	5.0	4.117282	25.0	367864.0	0.823456	Y
5	IC 480-559712/17	10.0	9.137755	25.0	381962.0	0.913775	Y
6	ICIS 480-559712/18	25.0	22.029181	25.0	389943.0	0.881167	Y
7	IC 480-559712/19	50.0	47.174991	25.0	391981.0	0.9435	Y
8	IC 480-559712/20	100.0	103.927246	25.0	393310.0	1.039272	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

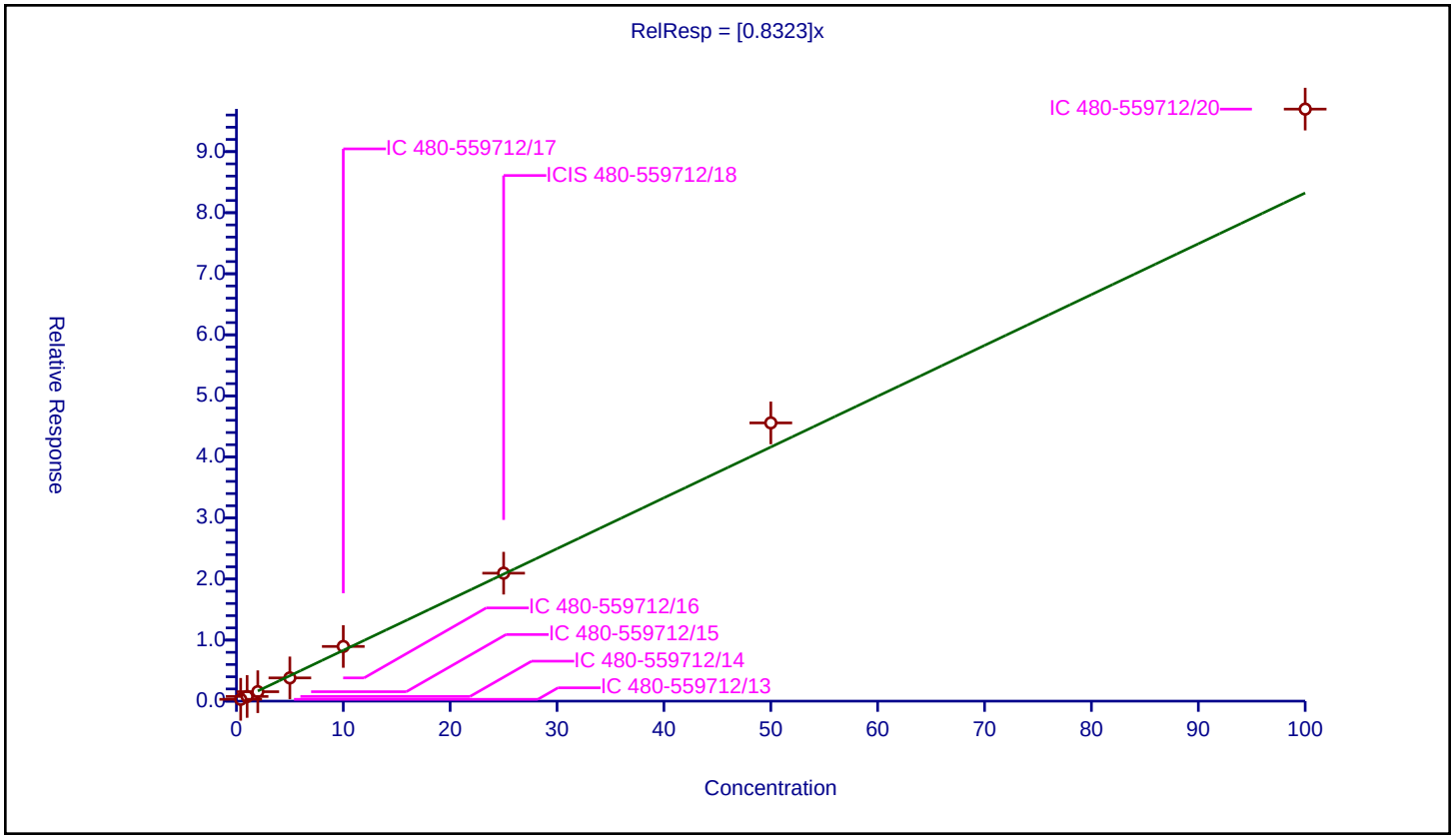
Curve Coefficients

Intercept:	0
Slope:	0.8323

Error Coefficients

Standard Error:	651000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.296975	25.0	363583.0	0.742437	Y
2	IC 480-559712/14	1.0	0.764246	25.0	363234.0	0.764246	Y
3	IC 480-559712/15	2.0	1.550242	25.0	360621.0	0.775121	Y
4	IC 480-559712/16	5.0	3.806978	25.0	367864.0	0.761396	Y
5	IC 480-559712/17	10.0	8.958286	25.0	381962.0	0.895829	Y
6	ICIS 480-559712/18	25.0	20.964154	25.0	389943.0	0.838566	Y
7	IC 480-559712/19	50.0	45.574658	25.0	391981.0	0.911493	Y
8	IC 480-559712/20	100.0	96.965562	25.0	393310.0	0.969656	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

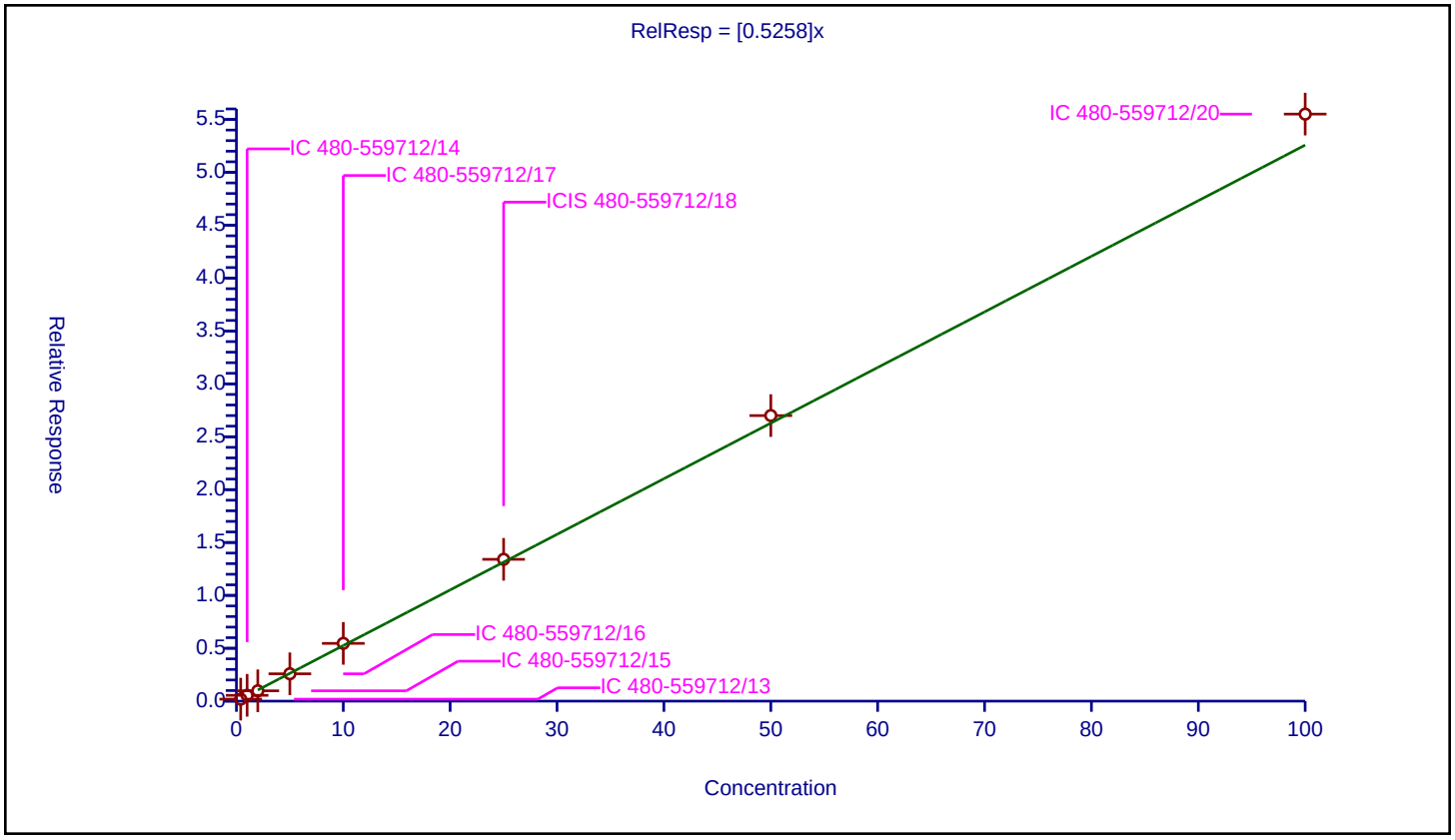
Curve Coefficients

Intercept:	0
Slope:	0.5258

Error Coefficients

Standard Error:	377000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.188746	25.0	363583.0	0.471866	Y
2	IC 480-559712/14	1.0	0.550059	25.0	363234.0	0.550059	Y
3	IC 480-559712/15	2.0	0.977827	25.0	360621.0	0.488914	Y
4	IC 480-559712/16	5.0	2.587981	25.0	367864.0	0.517596	Y
5	IC 480-559712/17	10.0	5.463567	25.0	381962.0	0.546357	Y
6	ICIS 480-559712/18	25.0	13.408434	25.0	389943.0	0.536337	Y
7	IC 480-559712/19	50.0	27.004434	25.0	391981.0	0.540089	Y
8	IC 480-559712/20	100.0	55.509013	25.0	393310.0	0.55509	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

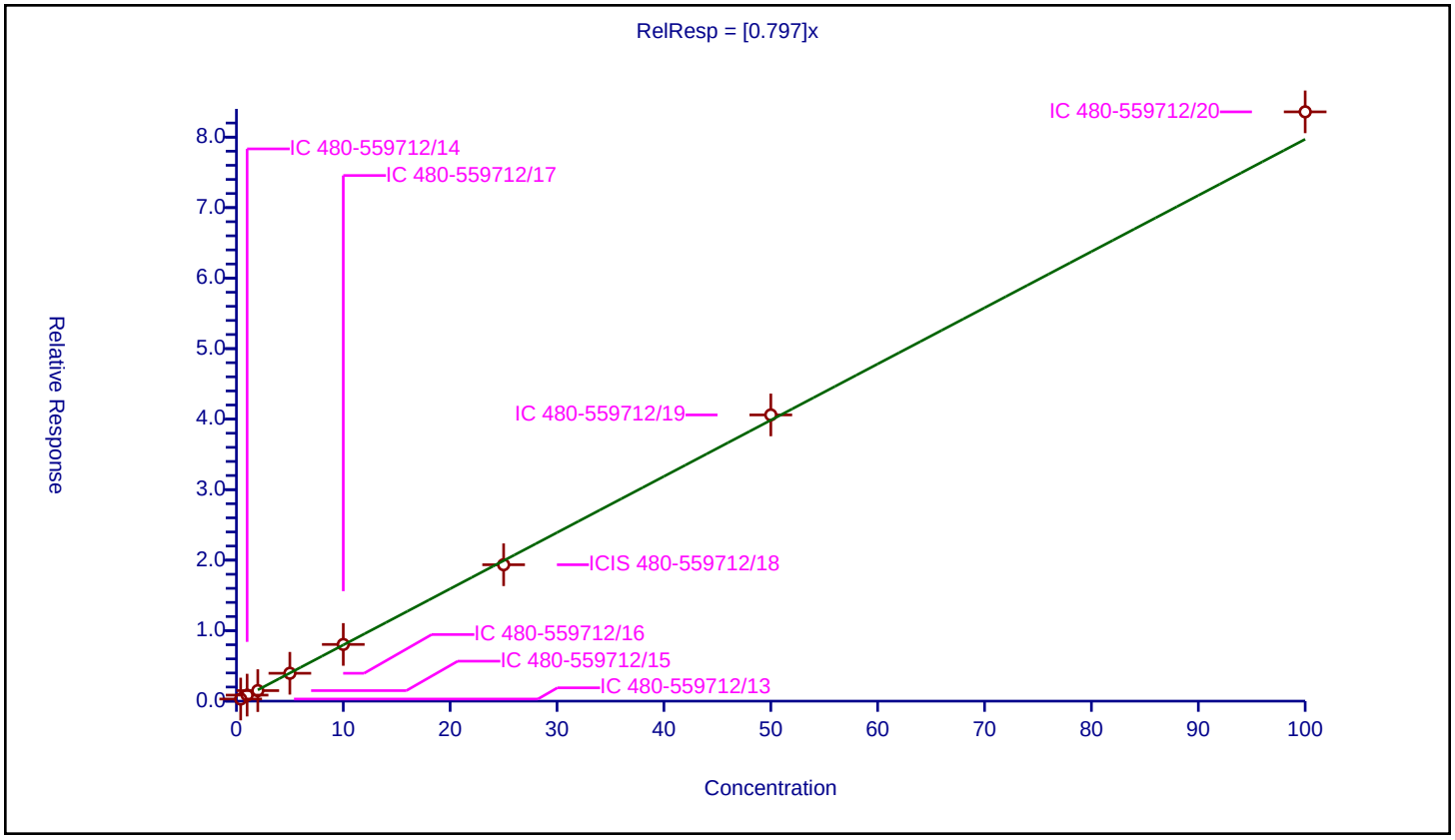
Curve Coefficients

Intercept:	0
Slope:	0.797

Error Coefficients

Standard Error:	566000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.303026	25.0	363583.0	0.757564	Y
2	IC 480-559712/14	1.0	0.854408	25.0	363234.0	0.854408	Y
3	IC 480-559712/15	2.0	1.494991	25.0	360621.0	0.747495	Y
4	IC 480-559712/16	5.0	3.952548	25.0	367864.0	0.79051	Y
5	IC 480-559712/17	10.0	8.044583	25.0	381962.0	0.804458	Y
6	ICIS 480-559712/18	25.0	19.346994	25.0	389943.0	0.77388	Y
7	IC 480-559712/19	50.0	40.599799	25.0	391981.0	0.811996	Y
8	IC 480-559712/20	100.0	83.583624	25.0	393310.0	0.835836	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

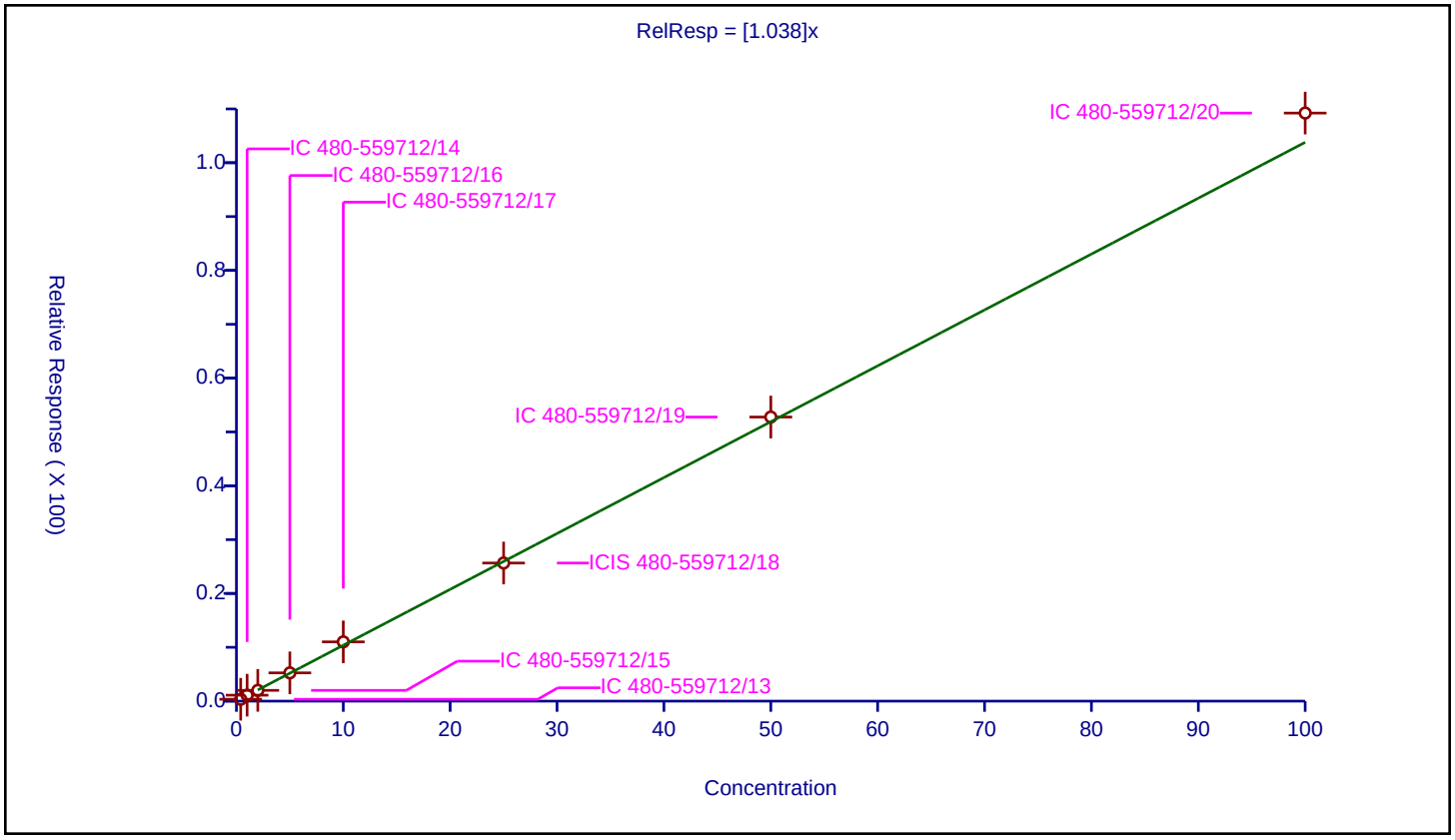
Curve Coefficients

Intercept:	0
Slope:	1.038

Error Coefficients

Standard Error:	740000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.349026	25.0	363583.0	0.872566	Y
2	IC 480-559712/14	1.0	1.105279	25.0	363234.0	1.105279	Y
3	IC 480-559712/15	2.0	2.001825	25.0	360621.0	1.000912	Y
4	IC 480-559712/16	5.0	5.251057	25.0	367864.0	1.050211	Y
5	IC 480-559712/17	10.0	11.009341	25.0	381962.0	1.100934	Y
6	ICIS 480-559712/18	25.0	25.655801	25.0	389943.0	1.026232	Y
7	IC 480-559712/19	50.0	52.767928	25.0	391981.0	1.055359	Y
8	IC 480-559712/20	100.0	109.228153	25.0	393310.0	1.092282	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

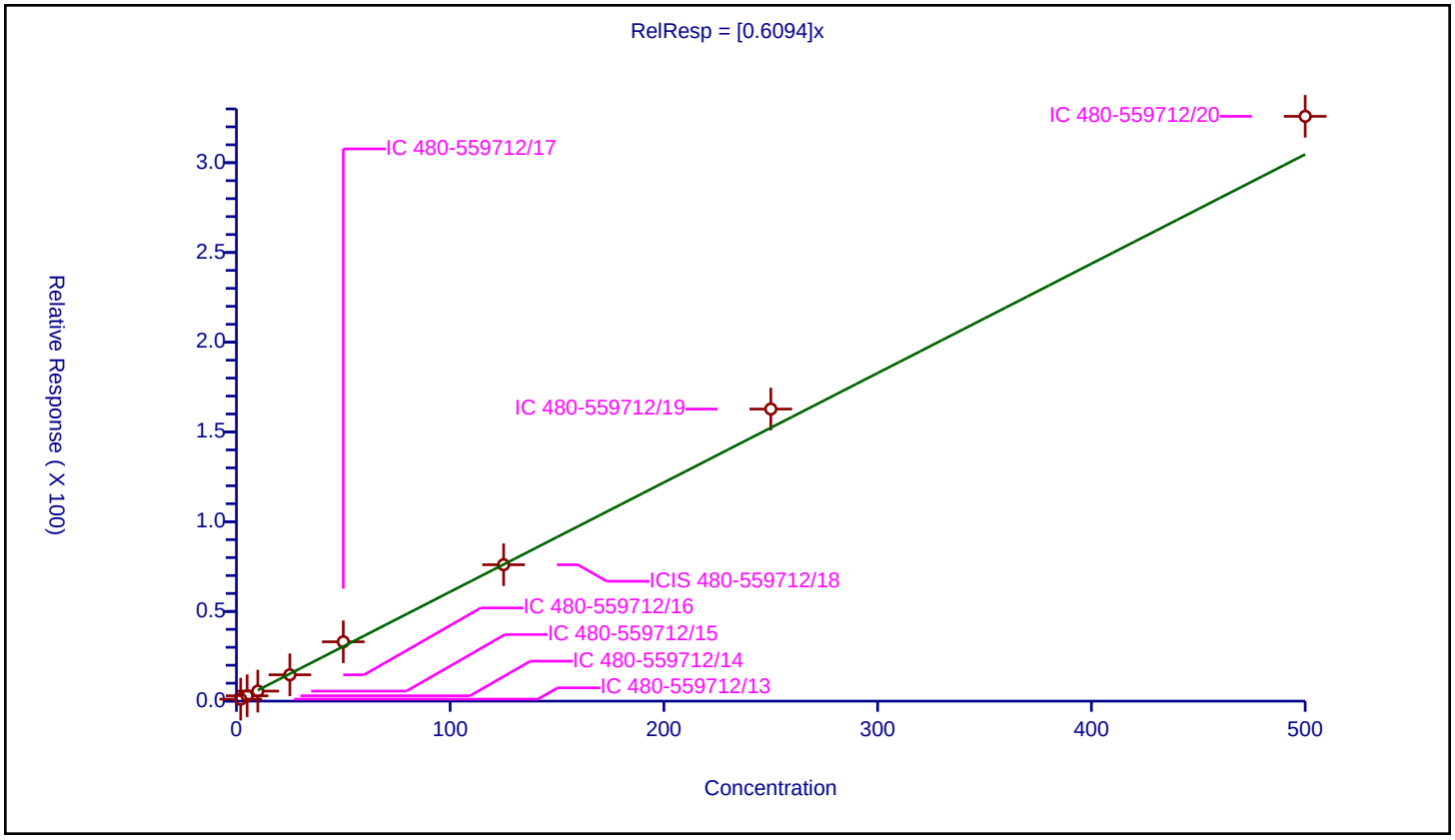
Curve Coefficients

Intercept:	0
Slope:	0.6094

Error Coefficients

Standard Error:	2220000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	2.0	1.111988	25.0	363583.0	0.555994	Y
2	IC 480-559712/14	5.0	3.001784	25.0	363234.0	0.600357	Y
3	IC 480-559712/15	10.0	5.587722	25.0	360621.0	0.558772	Y
4	IC 480-559712/16	25.0	14.685115	25.0	367864.0	0.587405	Y
5	IC 480-559712/17	50.0	33.066967	25.0	381962.0	0.661339	Y
6	ICIS 480-559712/18	125.0	76.017841	25.0	389943.0	0.608143	Y
7	IC 480-559712/19	250.0	162.765989	25.0	391981.0	0.651064	Y
8	IC 480-559712/20	500.0	325.868907	25.0	393310.0	0.651738	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

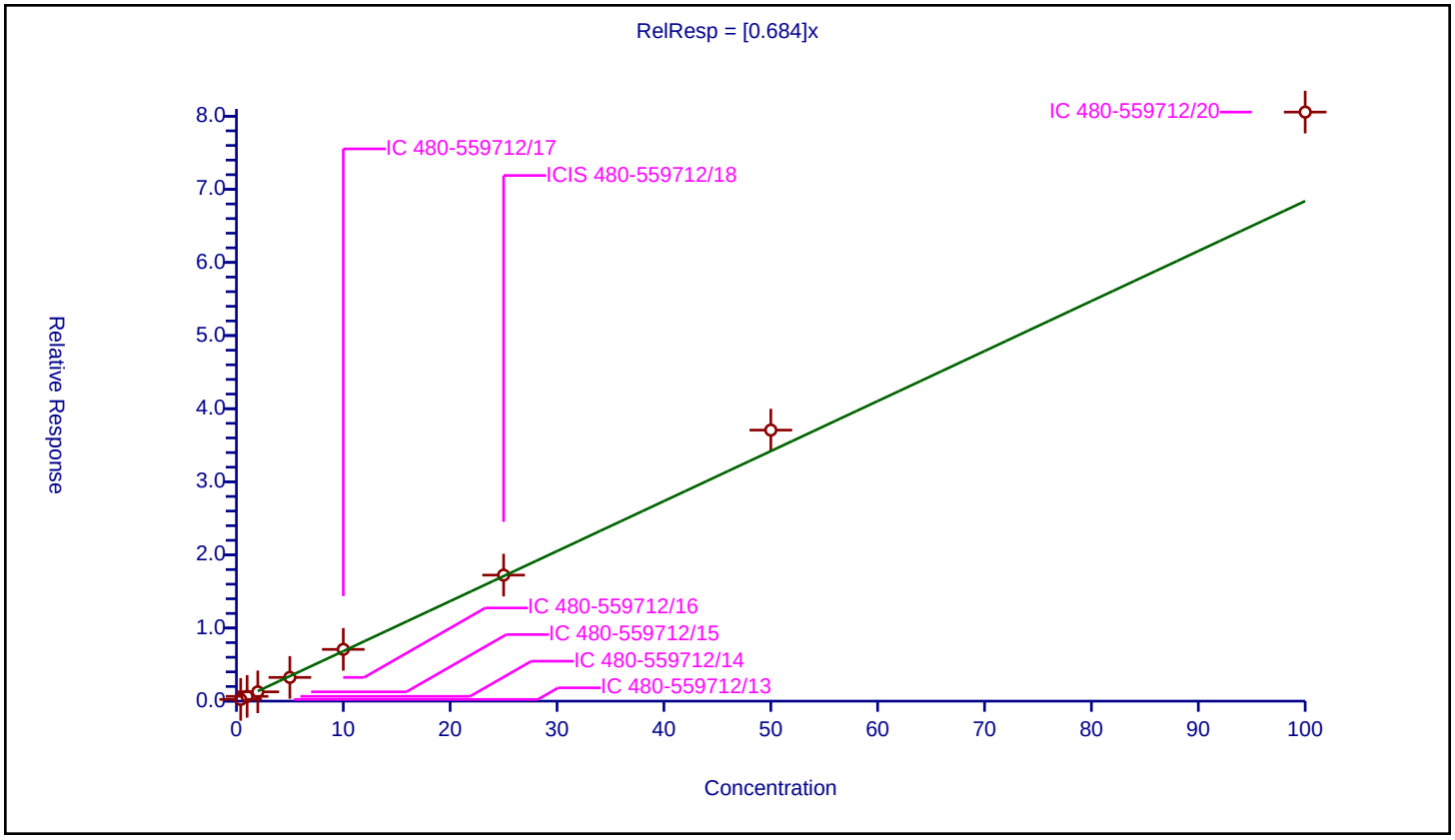
Curve Coefficients

Intercept:	0
Slope:	0.684

Error Coefficients

Standard Error:	539000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.233853	25.0	363583.0	0.584633	Y
2	IC 480-559712/14	1.0	0.656877	25.0	363234.0	0.656877	Y
3	IC 480-559712/15	2.0	1.27218	25.0	360621.0	0.63609	Y
4	IC 480-559712/16	5.0	3.247464	25.0	367864.0	0.649493	Y
5	IC 480-559712/17	10.0	7.08166	25.0	381962.0	0.708166	Y
6	ICIS 480-559712/18	25.0	17.239571	25.0	389943.0	0.689583	Y
7	IC 480-559712/19	50.0	37.070419	25.0	391981.0	0.741408	Y
8	IC 480-559712/20	100.0	80.56355	25.0	393310.0	0.805636	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

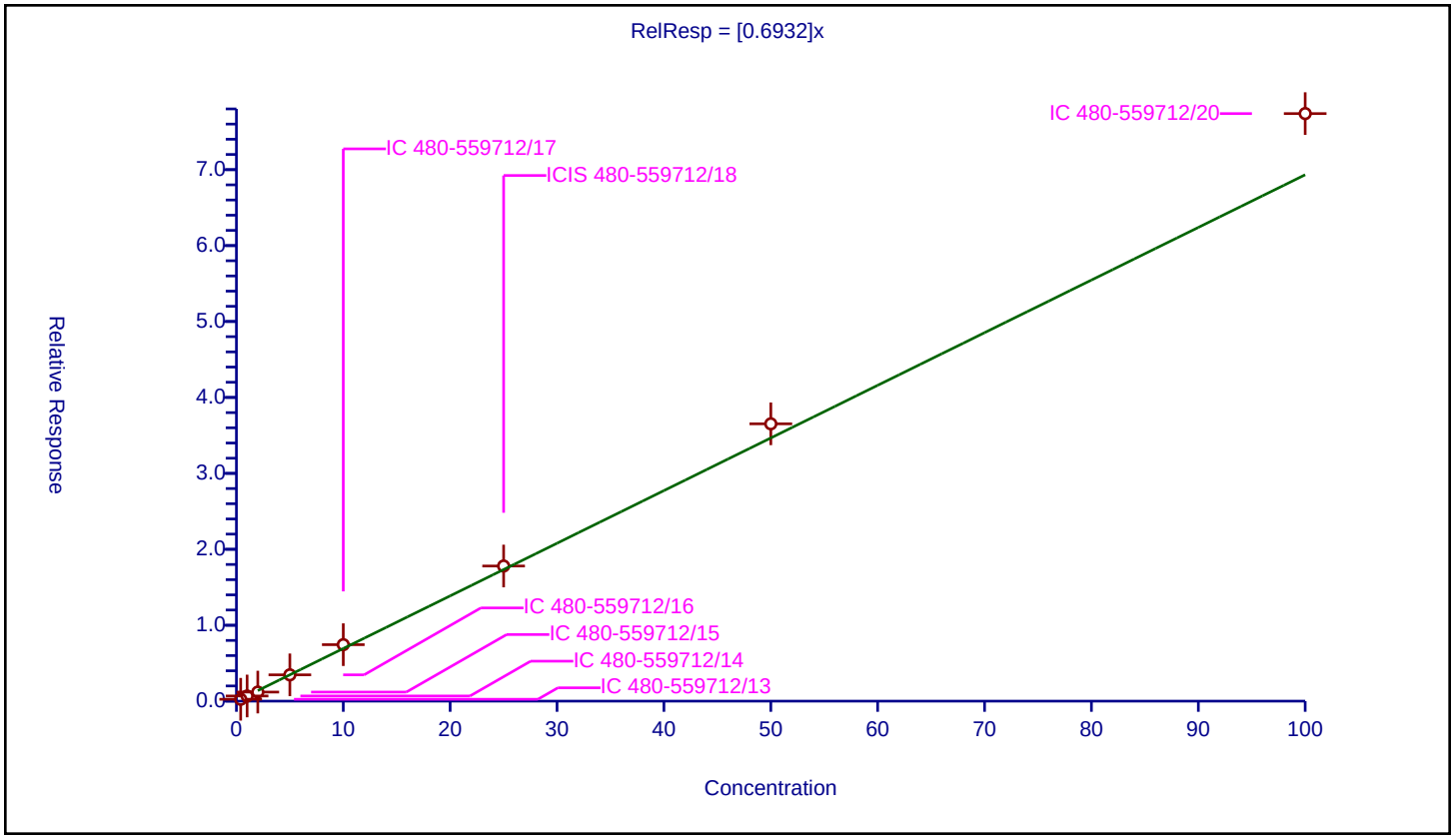
Curve Coefficients

Intercept:	0
Slope:	0.6932

Error Coefficients

Standard Error:	521000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.246574	25.0	363583.0	0.616434	Y
2	IC 480-559712/14	1.0	0.679314	25.0	363234.0	0.679314	Y
3	IC 480-559712/15	2.0	1.194883	25.0	360621.0	0.597442	Y
4	IC 480-559712/16	5.0	3.463304	25.0	367864.0	0.692661	Y
5	IC 480-559712/17	10.0	7.43896	25.0	381962.0	0.743896	Y
6	ICIS 480-559712/18	25.0	17.796575	25.0	389943.0	0.711863	Y
7	IC 480-559712/19	50.0	36.522944	25.0	391981.0	0.730459	Y
8	IC 480-559712/20	100.0	77.383934	25.0	393310.0	0.773839	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

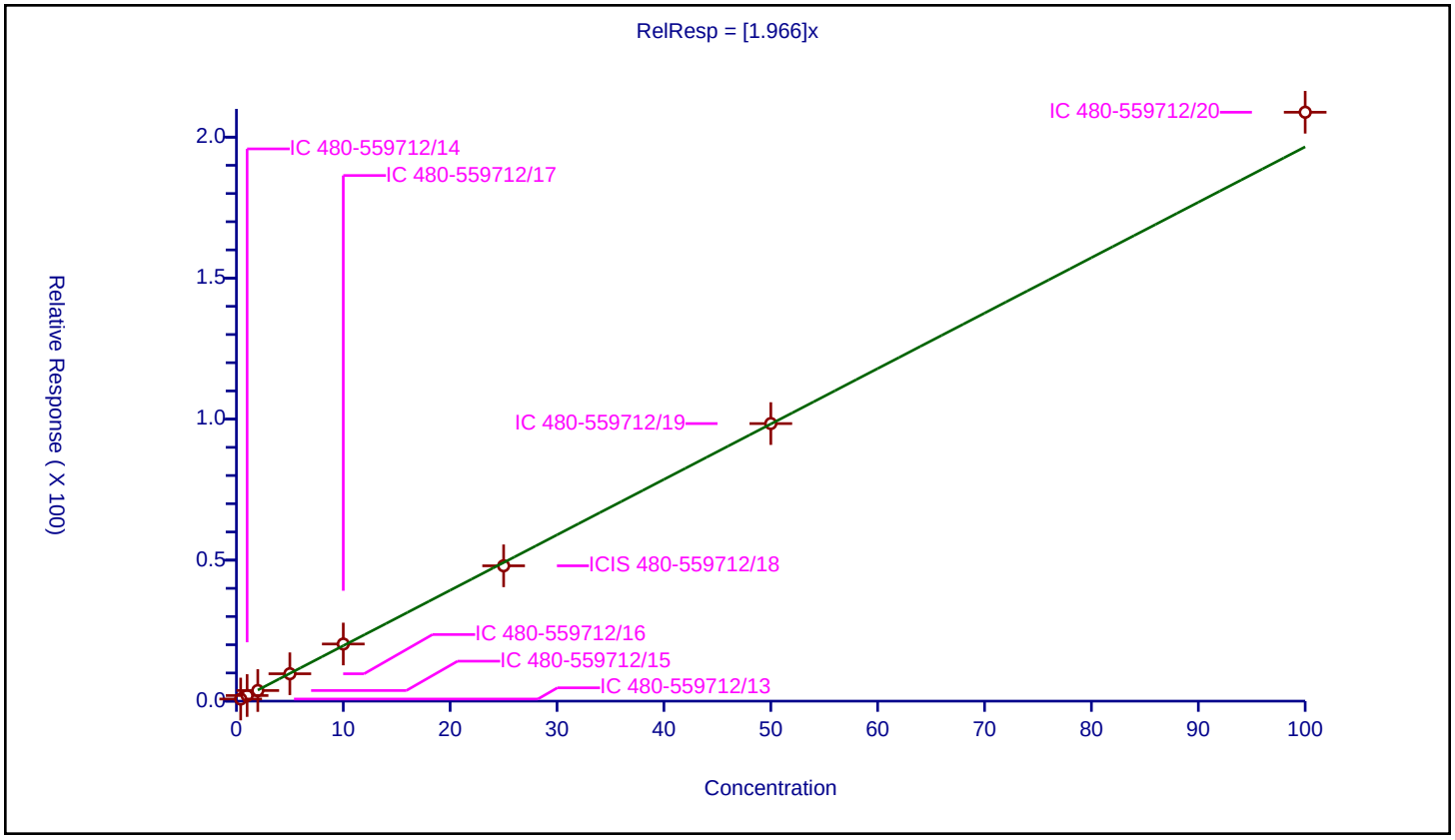
Curve Coefficients

Intercept:	0
Slope:	1.966

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.763375	25.0	363583.0	1.908436	Y
2	IC 480-559712/14	1.0	1.988801	25.0	363234.0	1.988801	Y
3	IC 480-559712/15	2.0	3.765796	25.0	360621.0	1.882898	Y
4	IC 480-559712/16	5.0	9.709567	25.0	367864.0	1.941913	Y
5	IC 480-559712/17	10.0	20.26072	25.0	381962.0	2.026072	Y
6	ICIS 480-559712/18	25.0	47.98868	25.0	389943.0	1.919547	Y
7	IC 480-559712/19	50.0	98.42537	25.0	391981.0	1.968507	Y
8	IC 480-559712/20	100.0	208.817917	25.0	393310.0	2.088179	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

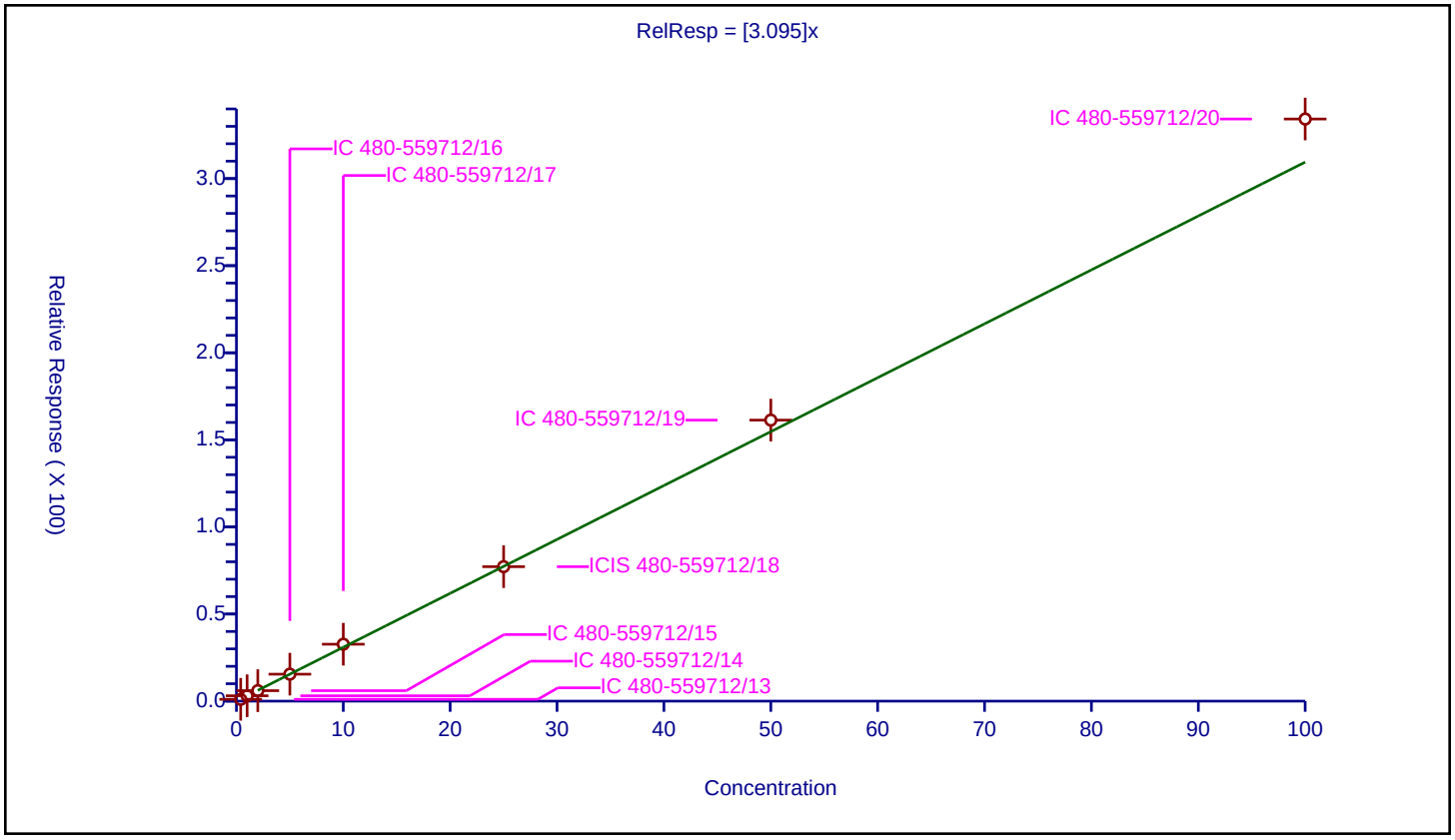
Curve Coefficients

Intercept:	0
Slope:	3.095

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.050654	25.0	363583.0	2.626635	Y
2	IC 480-559712/14	1.0	3.088643	25.0	363234.0	3.088643	Y
3	IC 480-559712/15	2.0	6.036185	25.0	360621.0	3.018092	Y
4	IC 480-559712/16	5.0	15.499614	25.0	367864.0	3.099923	Y
5	IC 480-559712/17	10.0	32.677596	25.0	381962.0	3.26776	Y
6	ICIS 480-559712/18	25.0	77.194744	25.0	389943.0	3.08779	Y
7	IC 480-559712/19	50.0	161.338687	25.0	391981.0	3.226774	Y
8	IC 480-559712/20	100.0	334.192749	25.0	393310.0	3.341927	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

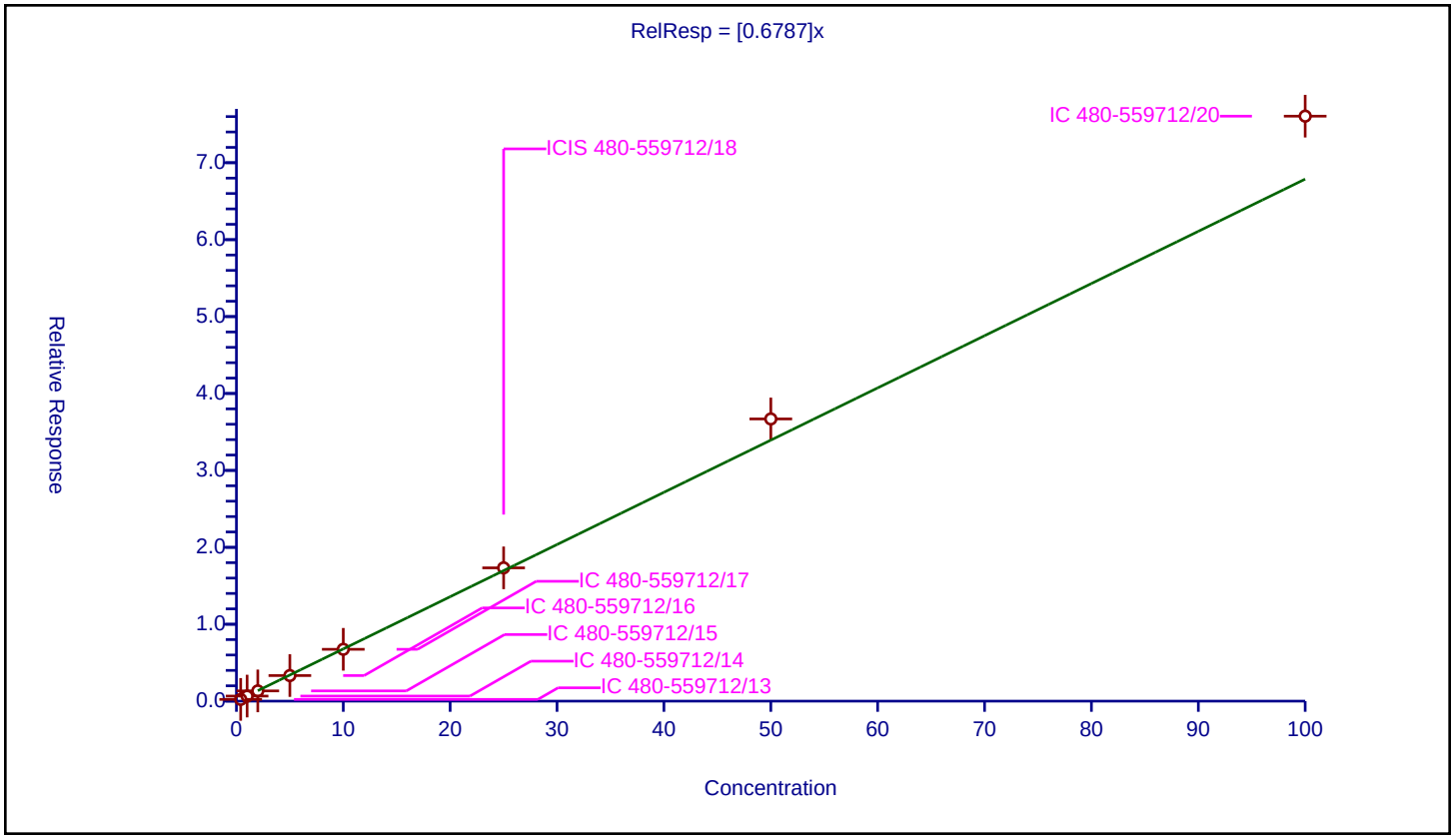
Curve Coefficients

Intercept:	0
Slope:	0.6787

Error Coefficients

Standard Error:	514000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.231378	25.0	363583.0	0.578444	Y
2	IC 480-559712/14	1.0	0.658597	25.0	363234.0	0.658597	Y
3	IC 480-559712/15	2.0	1.332632	25.0	360621.0	0.666316	Y
4	IC 480-559712/16	5.0	3.324734	25.0	367864.0	0.664947	Y
5	IC 480-559712/17	10.0	6.739414	25.0	381962.0	0.673941	Y
6	ICIS 480-559712/18	25.0	17.330995	25.0	389943.0	0.69324	Y
7	IC 480-559712/19	50.0	36.690044	25.0	391981.0	0.733801	Y
8	IC 480-559712/20	100.0	76.058898	25.0	393310.0	0.760589	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

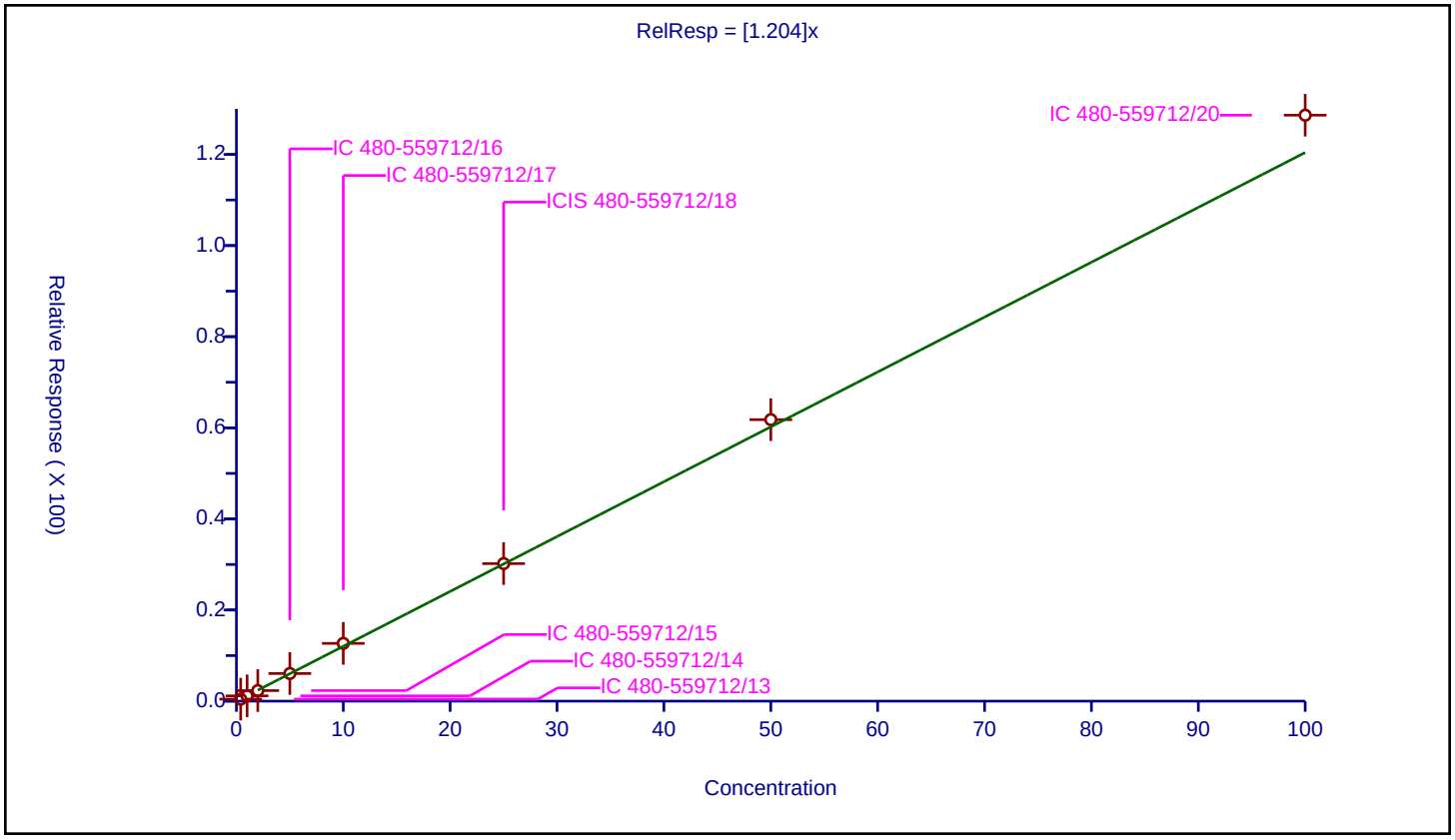
Curve Coefficients

Intercept:	0
Slope:	1.204

Error Coefficients

Standard Error:	870000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.44309	25.0	363583.0	1.107725	Y
2	IC 480-559712/14	1.0	1.157931	25.0	363234.0	1.157931	Y
3	IC 480-559712/15	2.0	2.315658	25.0	360621.0	1.157829	Y
4	IC 480-559712/16	5.0	6.064198	25.0	367864.0	1.21284	Y
5	IC 480-559712/17	10.0	12.675606	25.0	381962.0	1.267561	Y
6	ICIS 480-559712/18	25.0	30.195182	25.0	389943.0	1.207807	Y
7	IC 480-559712/19	50.0	61.791579	25.0	391981.0	1.235832	Y
8	IC 480-559712/20	100.0	128.615723	25.0	393310.0	1.286157	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

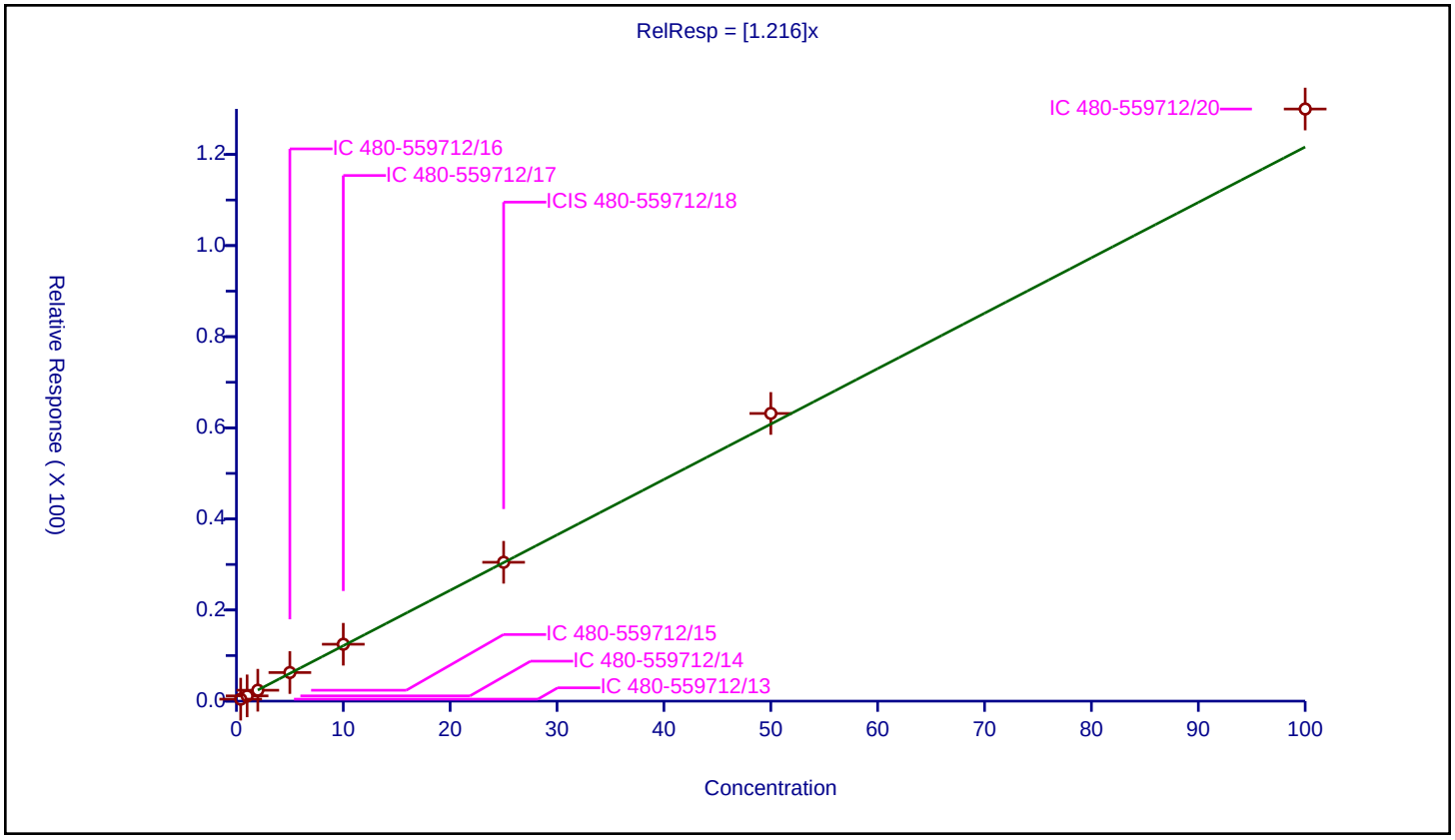
Curve Coefficients

Intercept:	0
Slope:	1.216

Error Coefficients

Standard Error:	881000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.43697	25.0	363583.0	1.092426	Y
2	IC 480-559712/14	1.0	1.155385	25.0	363234.0	1.155385	Y
3	IC 480-559712/15	2.0	2.394619	25.0	360621.0	1.19731	Y
4	IC 480-559712/16	5.0	6.276572	25.0	367864.0	1.255314	Y
5	IC 480-559712/17	10.0	12.489986	25.0	381962.0	1.248999	Y
6	ICIS 480-559712/18	25.0	30.484904	25.0	389943.0	1.219396	Y
7	IC 480-559712/19	50.0	63.155357	25.0	391981.0	1.263107	Y
8	IC 480-559712/20	100.0	129.977753	25.0	393310.0	1.299778	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

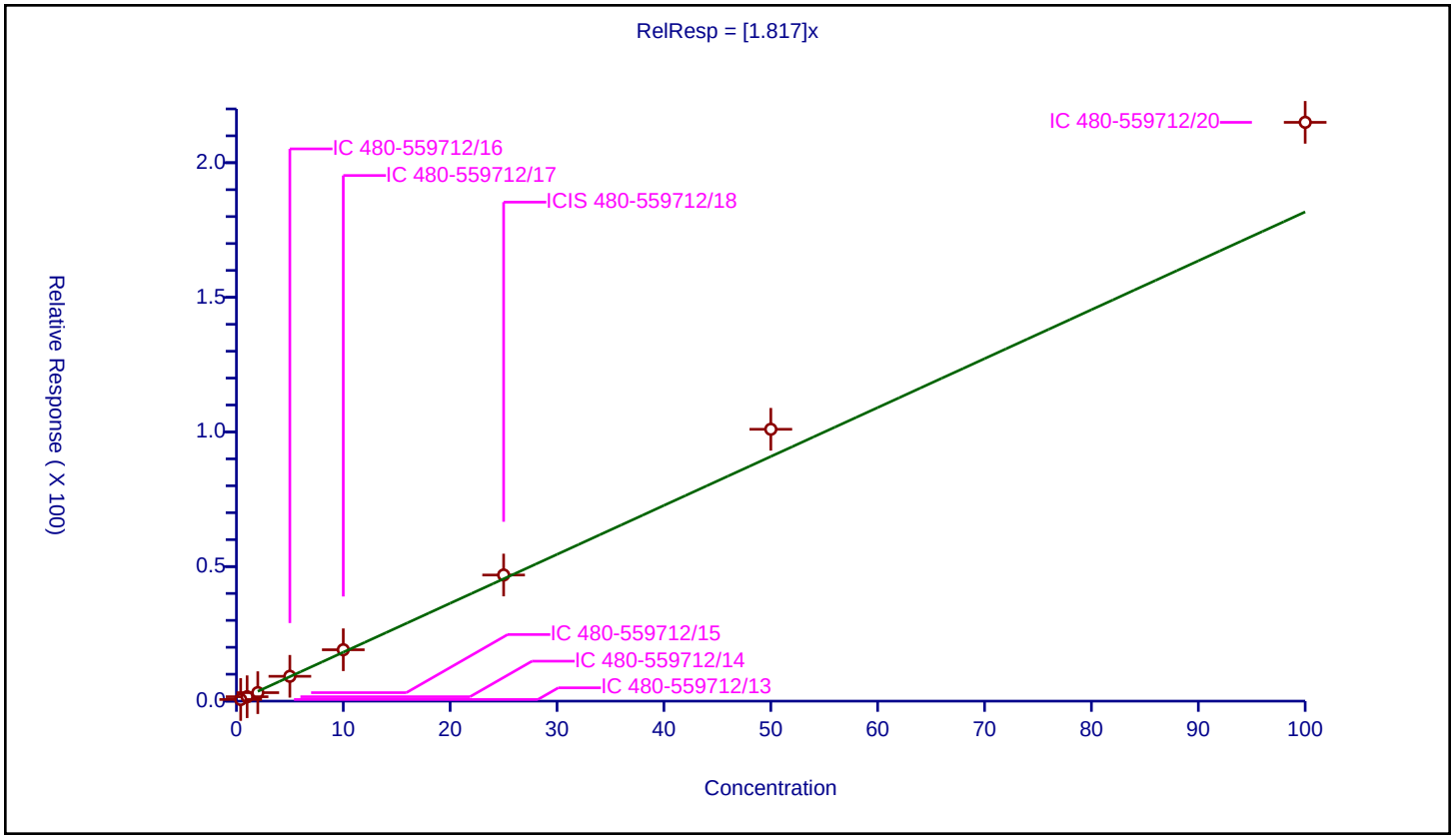
Curve Coefficients

Intercept:	0
Slope:	1.817

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	12.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.608183	25.0	363583.0	1.520458	Y
2	IC 480-559712/14	1.0	1.63882	25.0	363234.0	1.63882	Y
3	IC 480-559712/15	2.0	3.159134	25.0	360621.0	1.579567	Y
4	IC 480-559712/16	5.0	9.237313	25.0	367864.0	1.847463	Y
5	IC 480-559712/17	10.0	19.092802	25.0	381962.0	1.90928	Y
6	ICIS 480-559712/18	25.0	46.860118	25.0	389943.0	1.874405	Y
7	IC 480-559712/19	50.0	100.991885	25.0	391981.0	2.019838	Y
8	IC 480-559712/20	100.0	215.017035	25.0	393310.0	2.15017	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

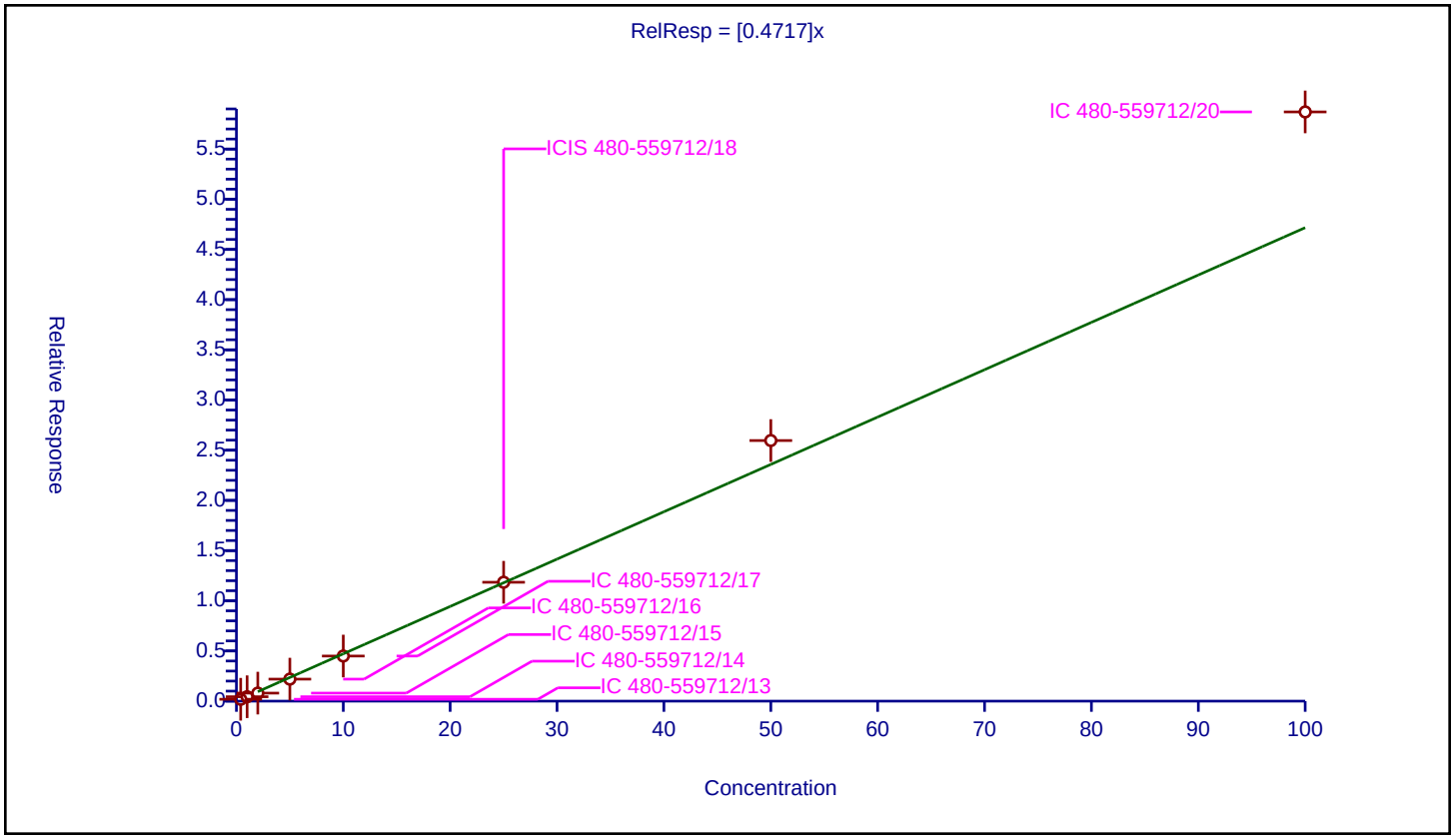
Curve Coefficients

Intercept:	0
Slope:	0.4717

Error Coefficients

Standard Error:	389000
Relative Standard Error:	12.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.186615	25.0	363583.0	0.466537	Y
2	IC 480-559712/14	1.0	0.437941	25.0	363234.0	0.437941	Y
3	IC 480-559712/15	2.0	0.800771	25.0	360621.0	0.400386	Y
4	IC 480-559712/16	5.0	2.195377	25.0	367864.0	0.439075	Y
5	IC 480-559712/17	10.0	4.495539	25.0	381962.0	0.449554	Y
6	ICIS 480-559712/18	25.0	11.845577	25.0	389943.0	0.473823	Y
7	IC 480-559712/19	50.0	25.961399	25.0	391981.0	0.519228	Y
8	IC 480-559712/20	100.0	58.698101	25.0	393310.0	0.586981	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

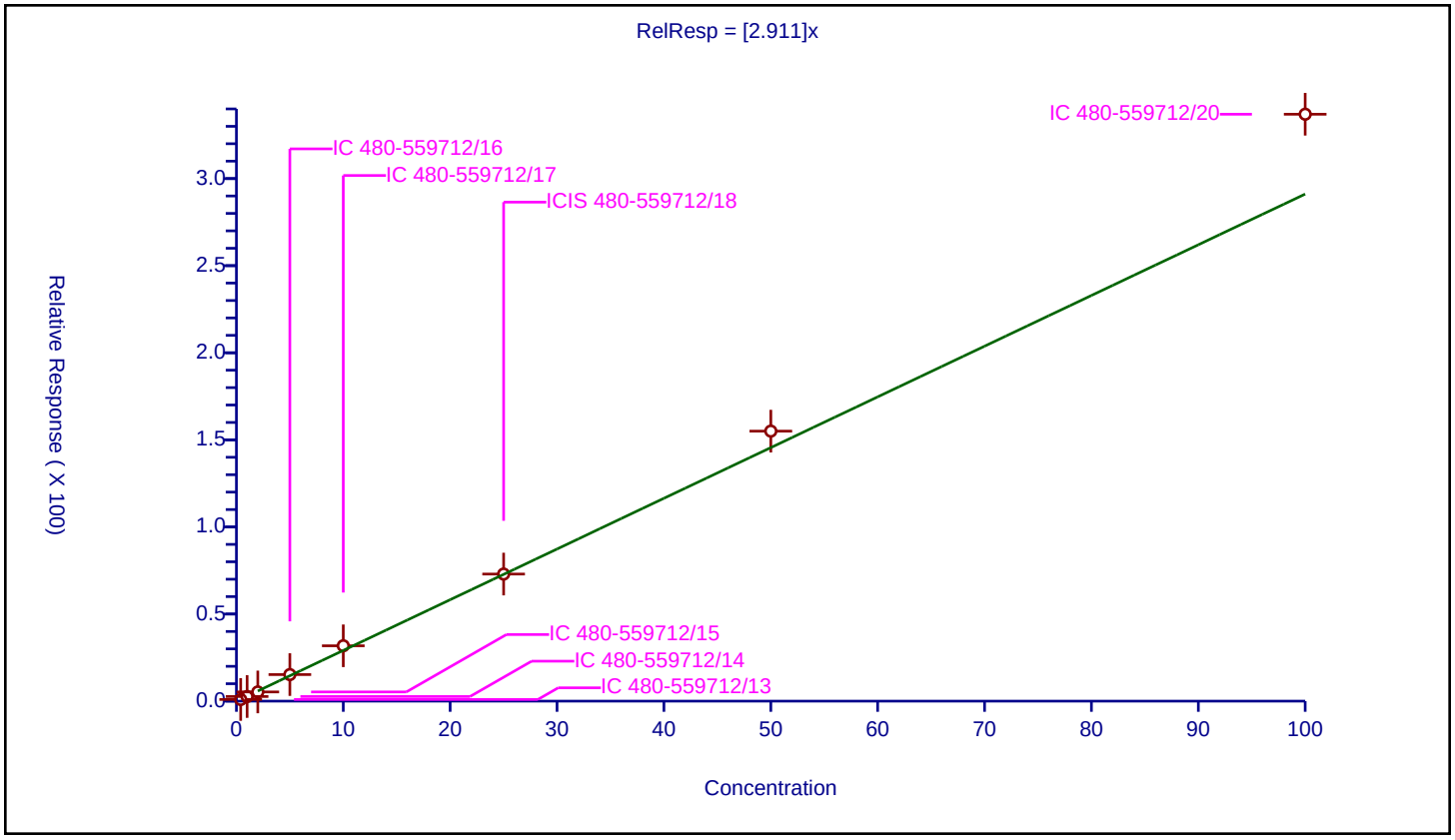
Curve Coefficients

Intercept:	0
Slope:	2.911

Error Coefficients

Standard Error:	2360000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.953174	25.0	385318.0	2.382934	Y
2	IC 480-559712/14	1.0	2.649302	25.0	417695.0	2.649302	Y
3	IC 480-559712/15	2.0	5.281655	25.0	403685.0	2.640828	Y
4	IC 480-559712/16	5.0	15.249079	25.0	389094.0	3.049816	Y
5	IC 480-559712/17	10.0	31.784134	25.0	401971.0	3.178413	Y
6	ICIS 480-559712/18	25.0	72.961426	25.0	434458.0	2.918457	Y
7	IC 480-559712/19	50.0	155.018927	25.0	427701.0	3.100379	Y
8	IC 480-559712/20	100.0	336.938968	25.0	407575.0	3.36939	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

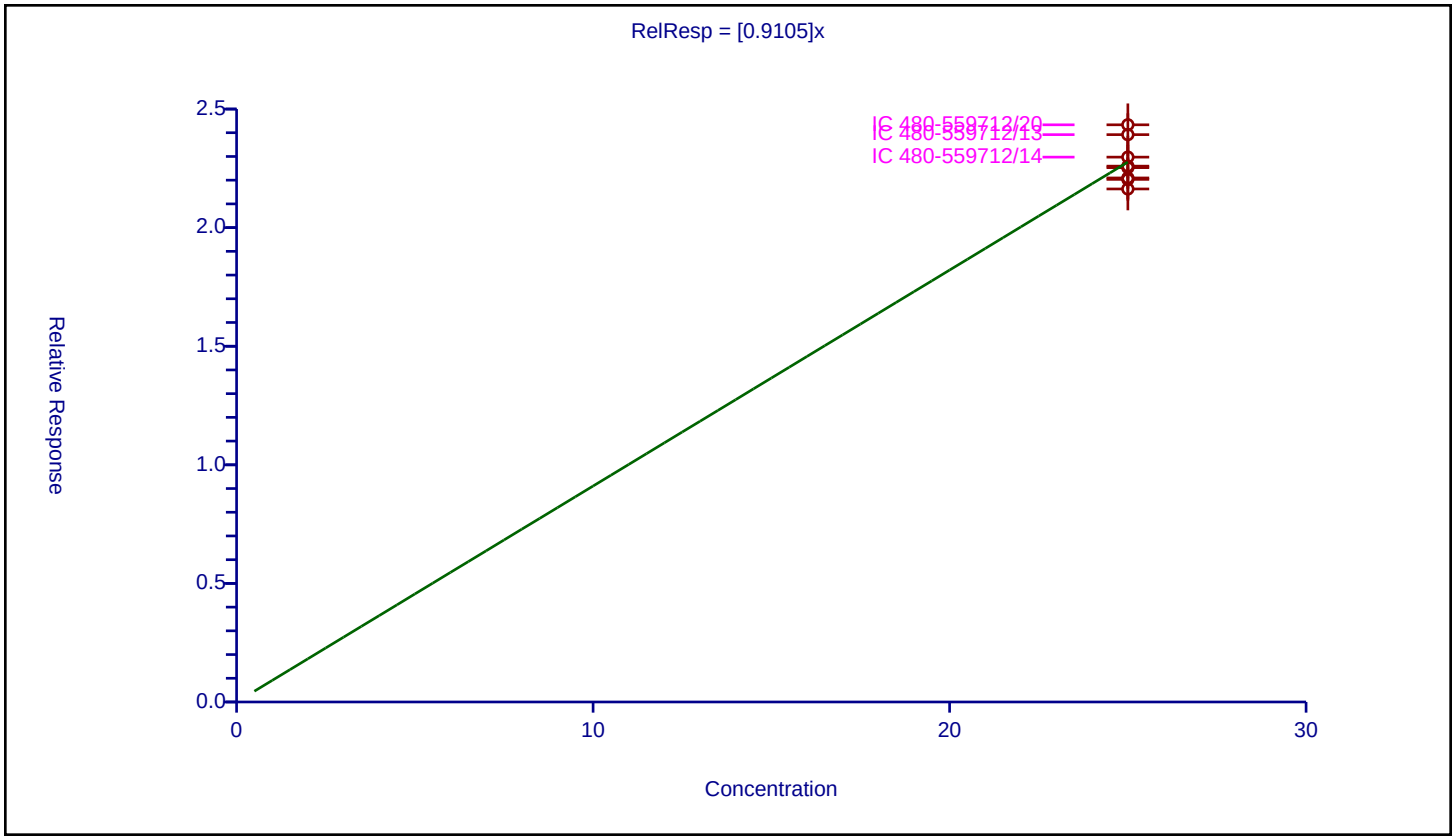
Curve Coefficients

Intercept:	0
Slope:	0.9105

Error Coefficients

Standard Error:	367000
Relative Standard Error:	4.1
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	25.0	23.919916	25.0	363583.0	0.956797	Y
2	IC 480-559712/14	25.0	22.972381	25.0	363234.0	0.918895	Y
3	IC 480-559712/15	25.0	22.527529	25.0	360621.0	0.901101	Y
4	IC 480-559712/16	25.0	22.033143	25.0	367864.0	0.881326	Y
5	IC 480-559712/17	25.0	22.593151	25.0	381962.0	0.903726	Y
6	ICIS 480-559712/18	25.0	22.094896	25.0	389943.0	0.883796	Y
7	IC 480-559712/19	25.0	21.629684	25.0	391981.0	0.865187	Y
8	IC 480-559712/20	25.0	24.335575	25.0	393310.0	0.973423	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

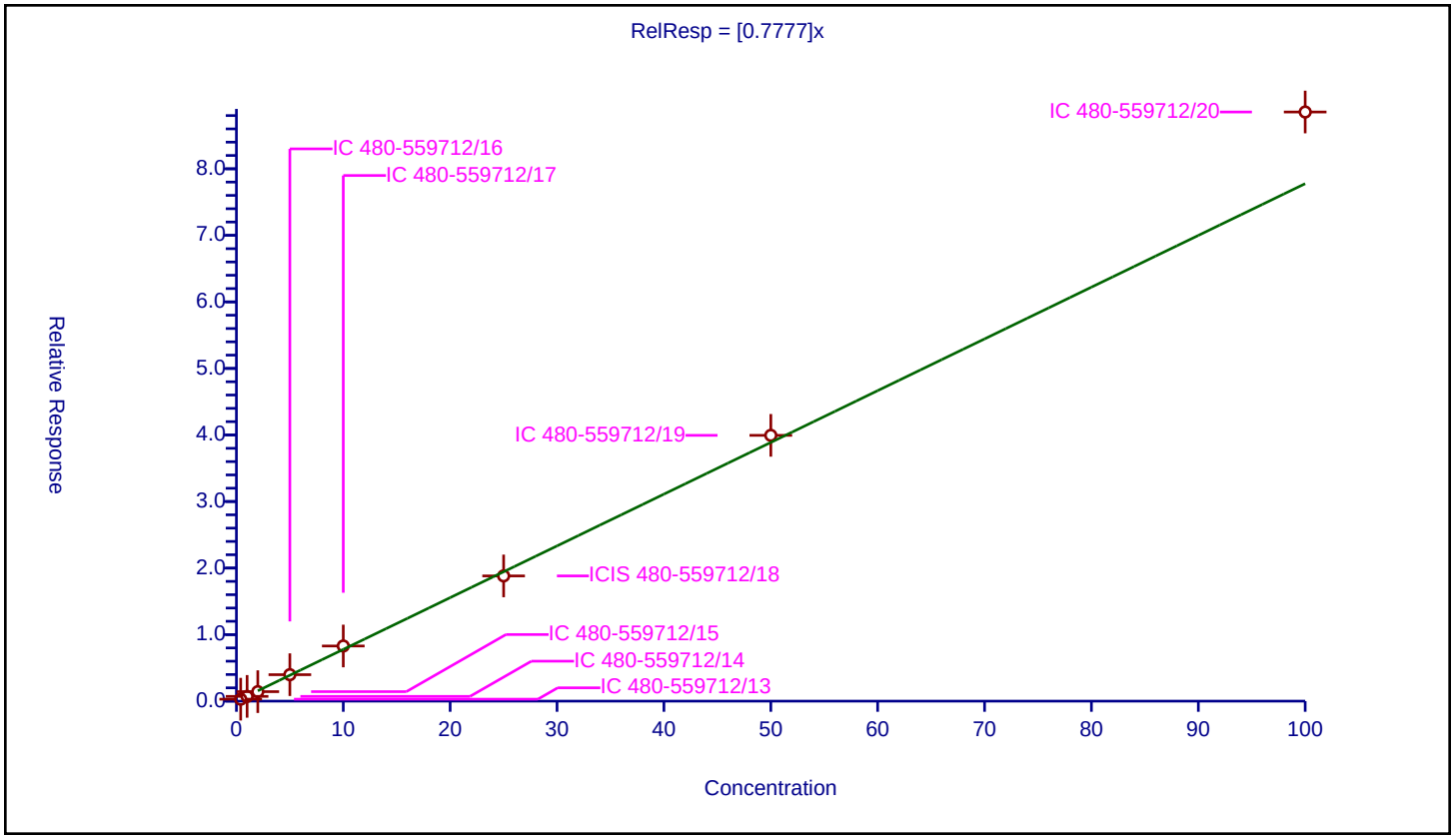
Curve Coefficients

Intercept:	0
Slope:	0.7777

Error Coefficients

Standard Error:	619000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.293978	25.0	385318.0	0.734945	Y
2	IC 480-559712/14	1.0	0.71314	25.0	417695.0	0.71314	Y
3	IC 480-559712/15	2.0	1.424997	25.0	403685.0	0.712499	Y
4	IC 480-559712/16	5.0	3.974746	25.0	389094.0	0.794949	Y
5	IC 480-559712/17	10.0	8.287289	25.0	401971.0	0.828729	Y
6	ICIS 480-559712/18	25.0	18.821612	25.0	434458.0	0.752864	Y
7	IC 480-559712/19	50.0	39.941805	25.0	427701.0	0.798836	Y
8	IC 480-559712/20	100.0	88.532601	25.0	407575.0	0.885326	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

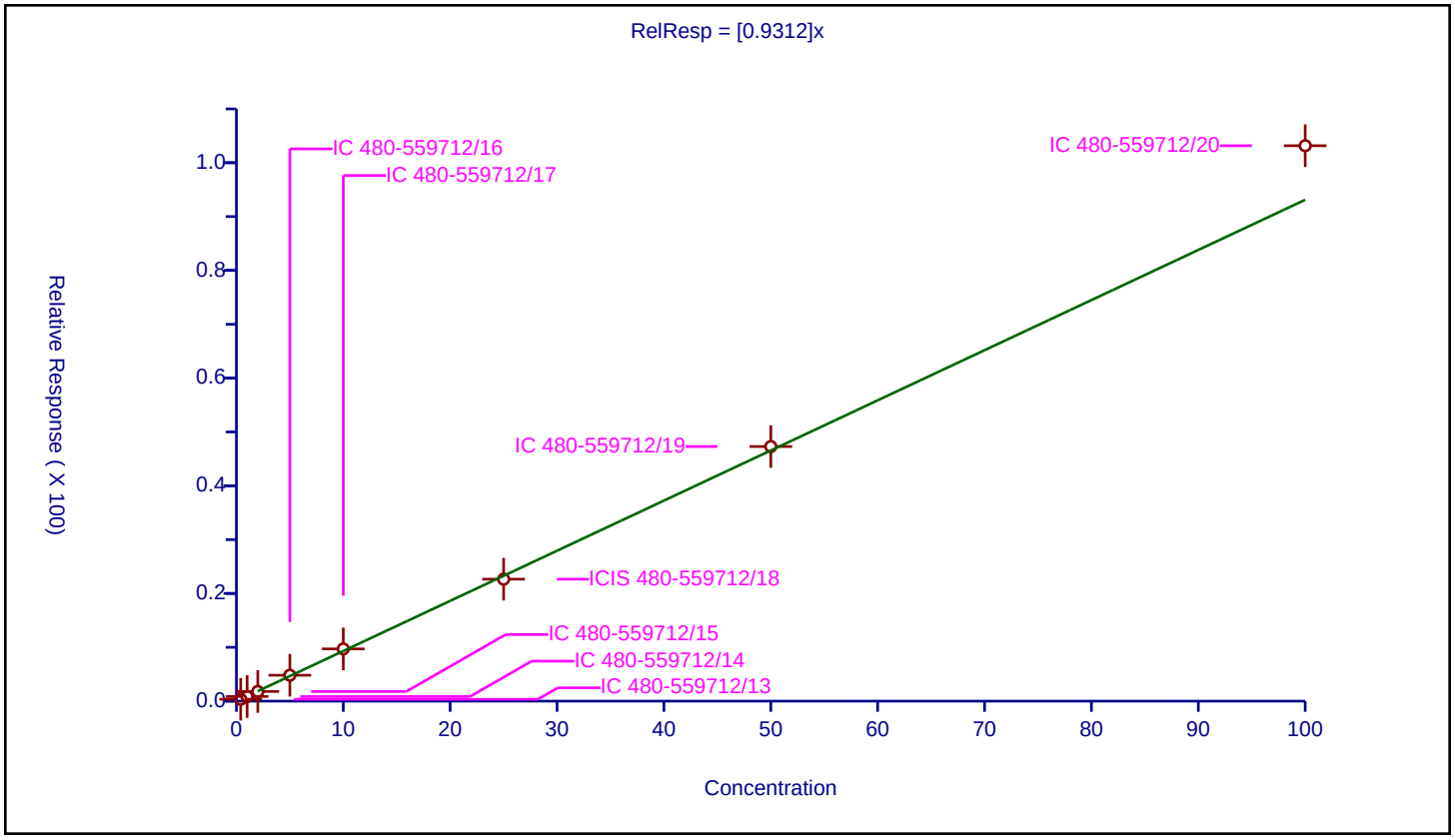
Curve Coefficients

Intercept:	0
Slope:	0.9312

Error Coefficients

Standard Error:	724000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.351074	25.0	385318.0	0.877684	Y
2	IC 480-559712/14	1.0	0.858222	25.0	417695.0	0.858222	Y
3	IC 480-559712/15	2.0	1.795583	25.0	403685.0	0.897792	Y
4	IC 480-559712/16	5.0	4.81002	25.0	389094.0	0.962004	Y
5	IC 480-559712/17	10.0	9.701819	25.0	401971.0	0.970182	Y
6	ICIS 480-559712/18	25.0	22.652017	25.0	434458.0	0.906081	Y
7	IC 480-559712/19	50.0	47.288117	25.0	427701.0	0.945762	Y
8	IC 480-559712/20	100.0	103.164694	25.0	407575.0	1.031647	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

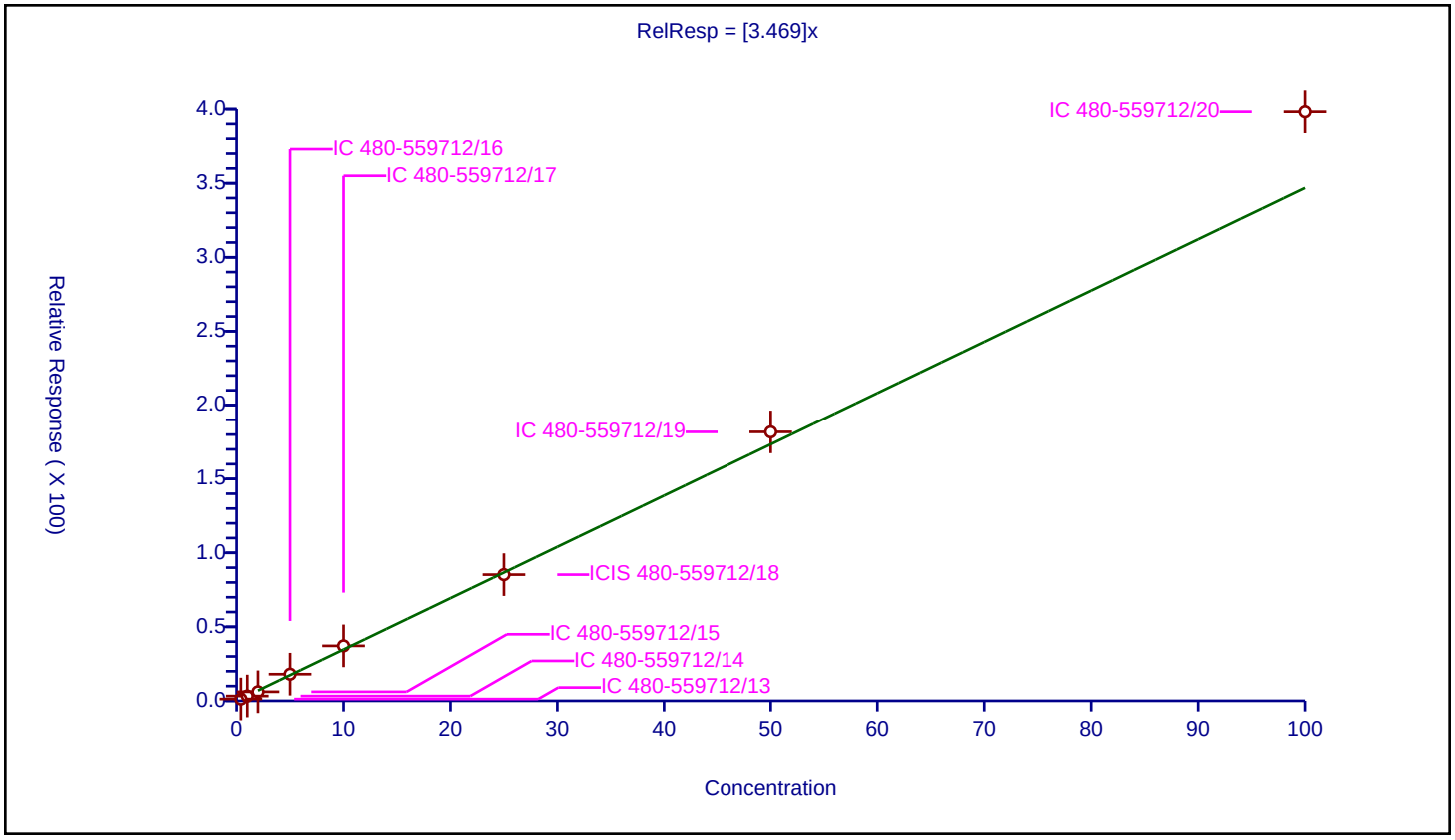
Curve Coefficients

Intercept:	0
Slope:	3.469

Error Coefficients

Standard Error:	2790000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.230866	25.0	385318.0	3.077166	Y
2	IC 480-559712/14	1.0	3.258897	25.0	417695.0	3.258897	Y
3	IC 480-559712/15	2.0	6.126373	25.0	403685.0	3.063187	Y
4	IC 480-559712/16	5.0	18.021802	25.0	389094.0	3.60436	Y
5	IC 480-559712/17	10.0	37.154733	25.0	401971.0	3.715473	Y
6	ICIS 480-559712/18	25.0	85.276252	25.0	434458.0	3.41105	Y
7	IC 480-559712/19	50.0	181.812645	25.0	427701.0	3.636253	Y
8	IC 480-559712/20	100.0	398.222842	25.0	407575.0	3.982228	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

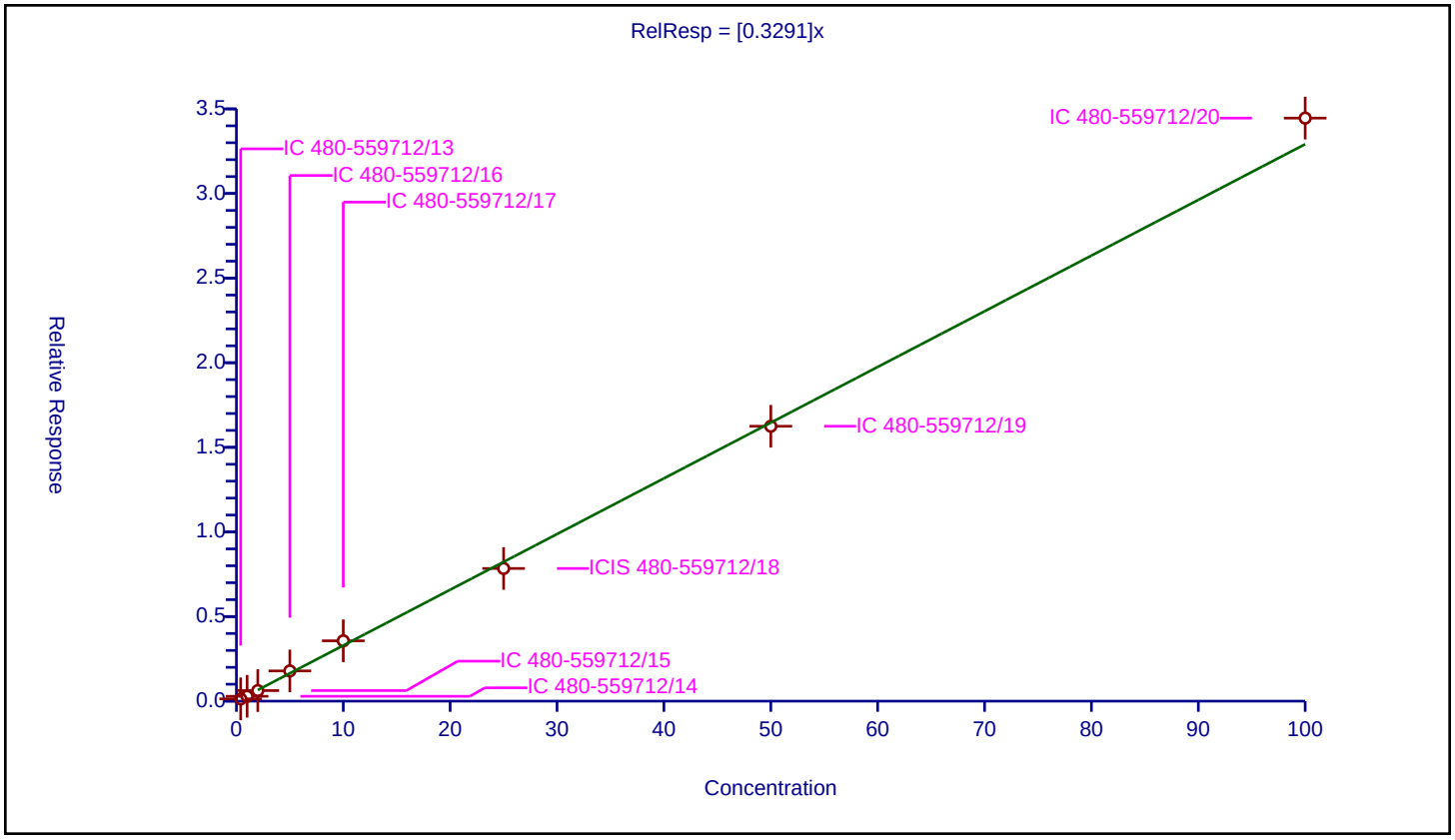
Curve Coefficients

Intercept:	0
Slope:	0.3291

Error Coefficients

Standard Error:	244000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.13424	25.0	385318.0	0.335599	Y
2	IC 480-559712/14	1.0	0.288907	25.0	417695.0	0.288907	Y
3	IC 480-559712/15	2.0	0.623568	25.0	403685.0	0.311784	Y
4	IC 480-559712/16	5.0	1.786201	25.0	389094.0	0.35724	Y
5	IC 480-559712/17	10.0	3.56512	25.0	401971.0	0.356512	Y
6	ICIS 480-559712/18	25.0	7.841264	25.0	434458.0	0.313651	Y
7	IC 480-559712/19	50.0	16.245987	25.0	427701.0	0.32492	Y
8	IC 480-559712/20	100.0	34.45599	25.0	407575.0	0.34456	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

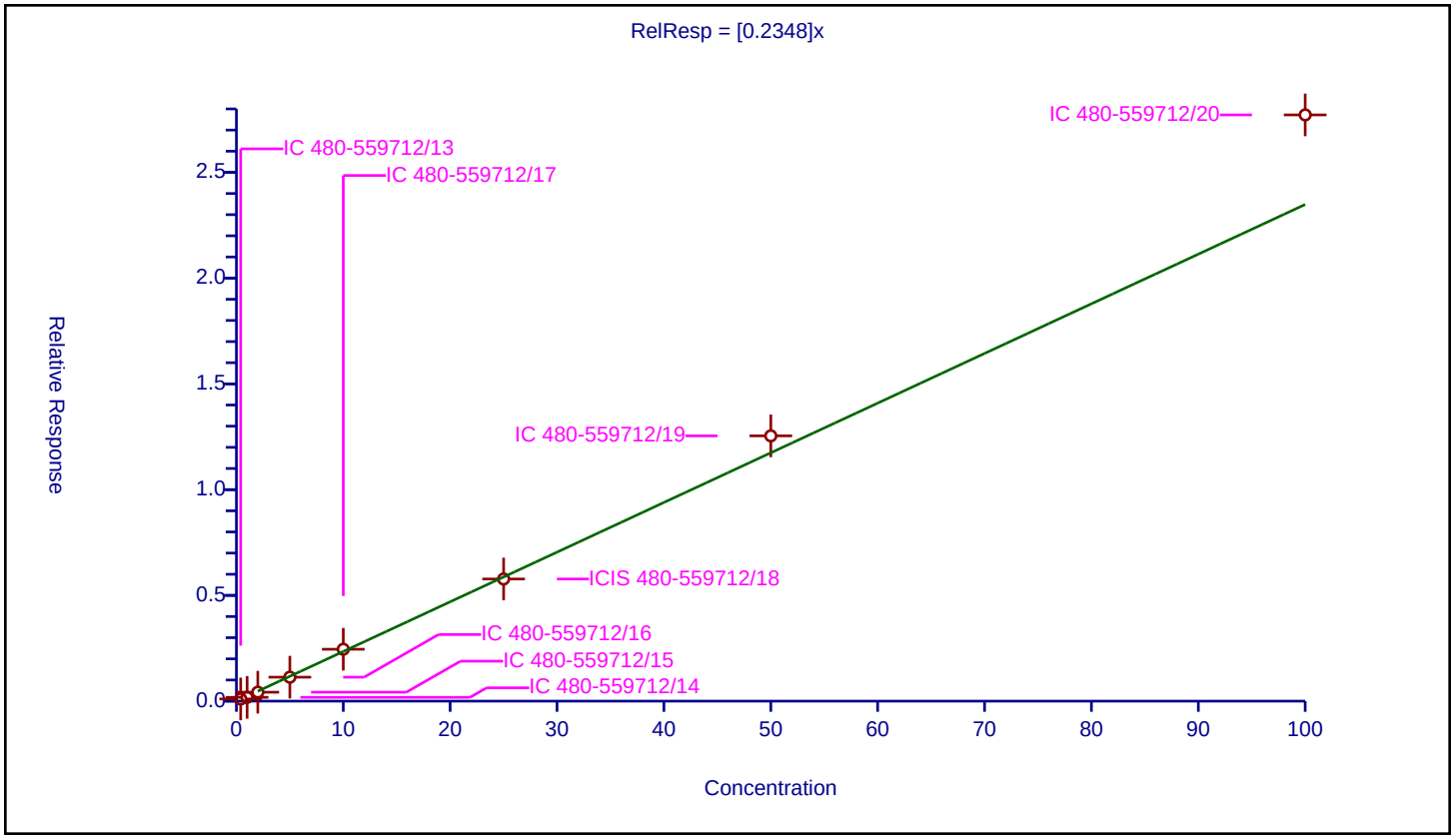
Curve Coefficients

Intercept:	0
Slope:	0.2348

Error Coefficients

Standard Error:	194000
Relative Standard Error:	12.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.102578	25.0	385318.0	0.256444	Y
2	IC 480-559712/14	1.0	0.180036	25.0	417695.0	0.180036	Y
3	IC 480-559712/15	2.0	0.422731	25.0	403685.0	0.211365	Y
4	IC 480-559712/16	5.0	1.132053	25.0	389094.0	0.226411	Y
5	IC 480-559712/17	10.0	2.453162	25.0	401971.0	0.245316	Y
6	ICIS 480-559712/18	25.0	5.775414	25.0	434458.0	0.231017	Y
7	IC 480-559712/19	50.0	12.541822	25.0	427701.0	0.250836	Y
8	IC 480-559712/20	100.0	27.716923	25.0	407575.0	0.277169	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

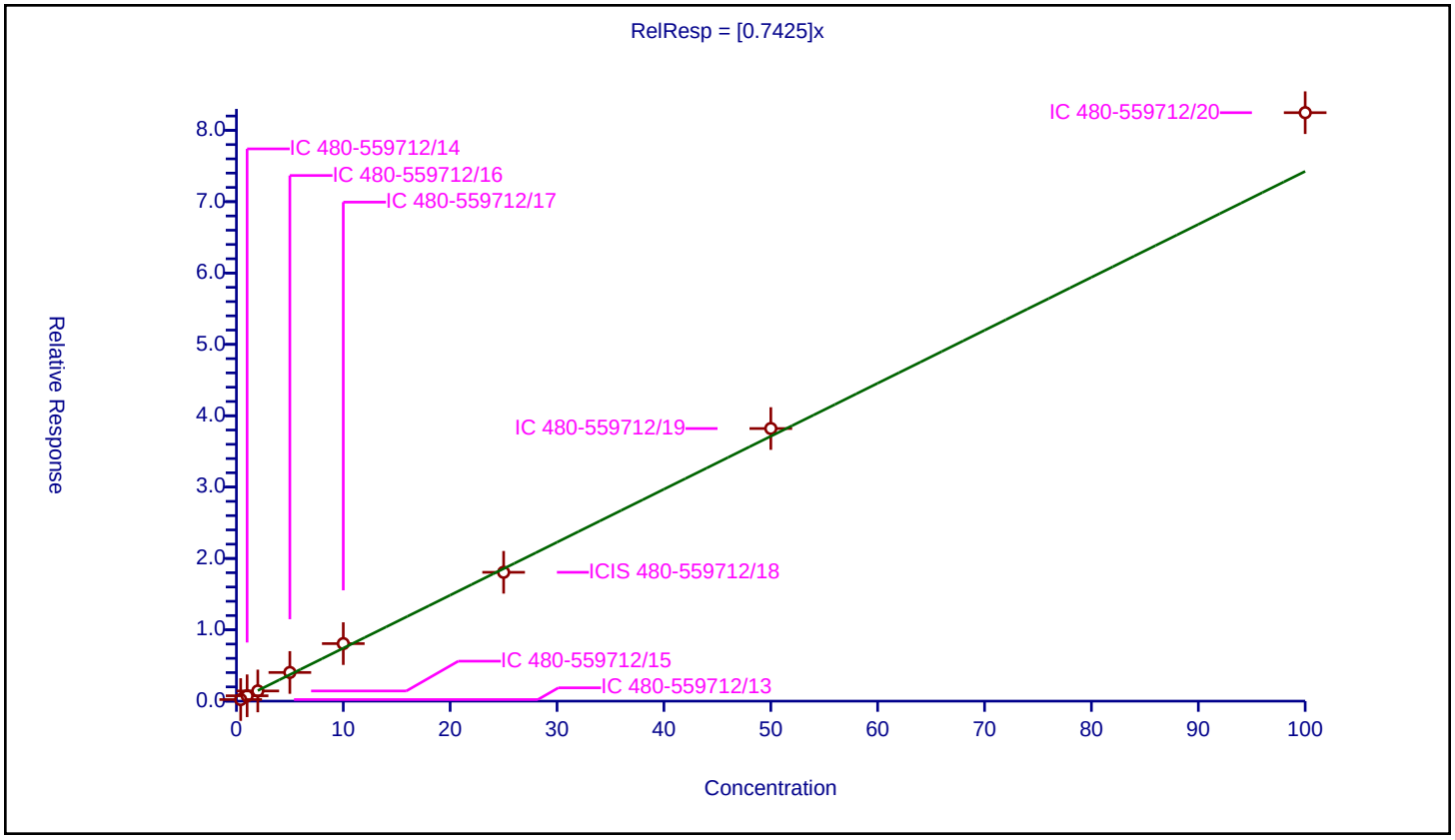
Curve Coefficients

Intercept:	0
Slope:	0.7425

Error Coefficients

Standard Error:	580000
Relative Standard Error:	11.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.220337	25.0	385318.0	0.550844	Y
2	IC 480-559712/14	1.0	0.751386	25.0	417695.0	0.751386	Y
3	IC 480-559712/15	2.0	1.431128	25.0	403685.0	0.715564	Y
4	IC 480-559712/16	5.0	4.022164	25.0	389094.0	0.804433	Y
5	IC 480-559712/17	10.0	8.065383	25.0	401971.0	0.806538	Y
6	ICIS 480-559712/18	25.0	18.056809	25.0	434458.0	0.722272	Y
7	IC 480-559712/19	50.0	38.207474	25.0	427701.0	0.764149	Y
8	IC 480-559712/20	100.0	82.469975	25.0	407575.0	0.8247	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

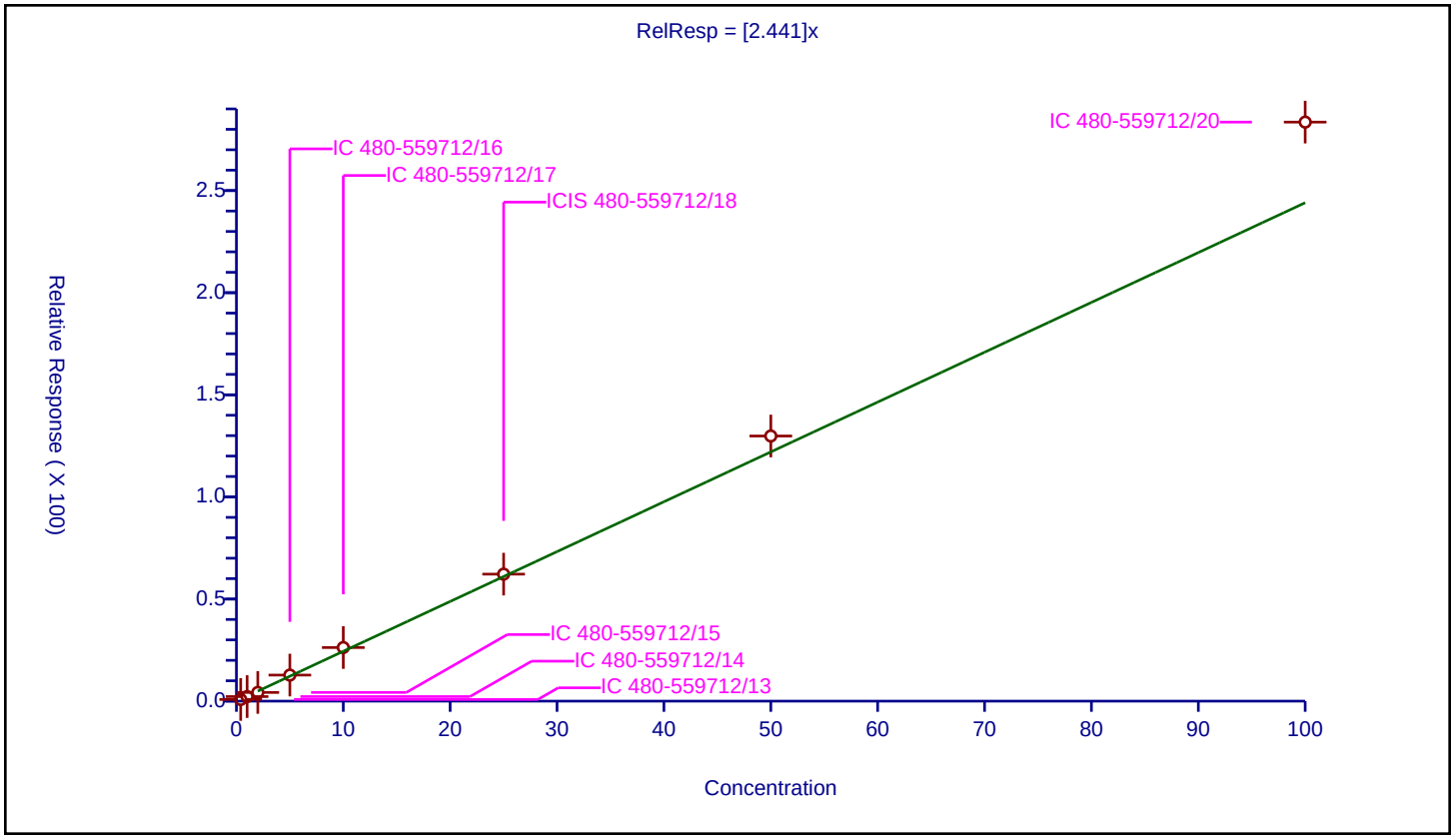
Curve Coefficients

Intercept:	0
Slope:	2.441

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.821399	25.0	385318.0	2.053499	Y
2	IC 480-559712/14	1.0	2.242126	25.0	417695.0	2.242126	Y
3	IC 480-559712/15	2.0	4.264216	25.0	403685.0	2.132108	Y
4	IC 480-559712/16	5.0	12.763625	25.0	389094.0	2.552725	Y
5	IC 480-559712/17	10.0	26.24356	25.0	401971.0	2.624356	Y
6	ICIS 480-559712/18	25.0	62.191915	25.0	434458.0	2.487677	Y
7	IC 480-559712/19	50.0	129.830068	25.0	427701.0	2.596601	Y
8	IC 480-559712/20	100.0	283.530761	25.0	407575.0	2.835308	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

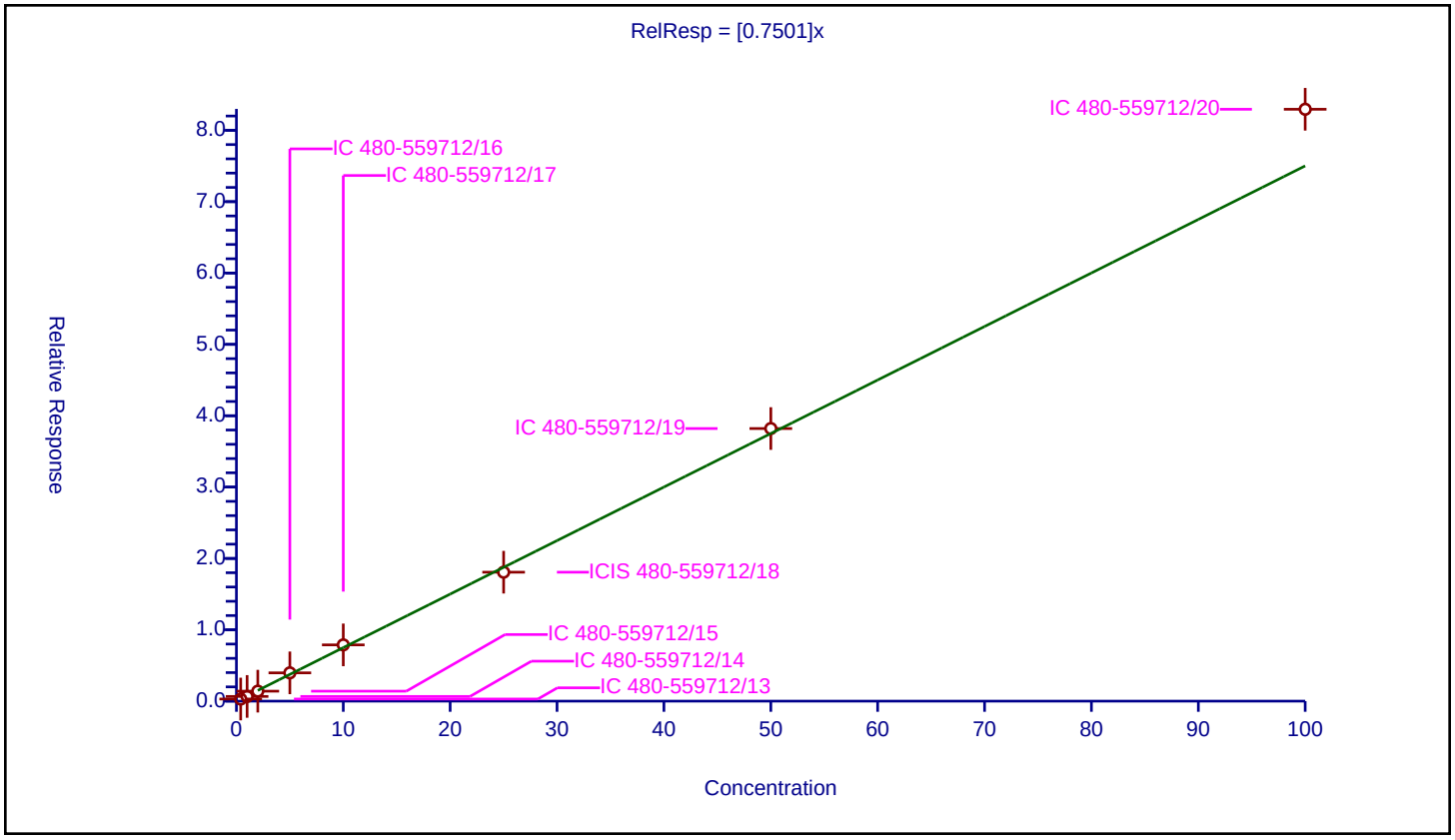
Curve Coefficients

Intercept:	0
Slope:	0.7501

Error Coefficients

Standard Error:	582000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.296898	25.0	385318.0	0.742244	Y
2	IC 480-559712/14	1.0	0.660889	25.0	417695.0	0.660889	Y
3	IC 480-559712/15	2.0	1.398863	25.0	403685.0	0.699431	Y
4	IC 480-559712/16	5.0	3.96588	25.0	389094.0	0.793176	Y
5	IC 480-559712/17	10.0	7.886328	25.0	401971.0	0.788633	Y
6	ICIS 480-559712/18	25.0	18.073324	25.0	434458.0	0.722933	Y
7	IC 480-559712/19	50.0	38.204376	25.0	427701.0	0.764088	Y
8	IC 480-559712/20	100.0	82.946513	25.0	407575.0	0.829465	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

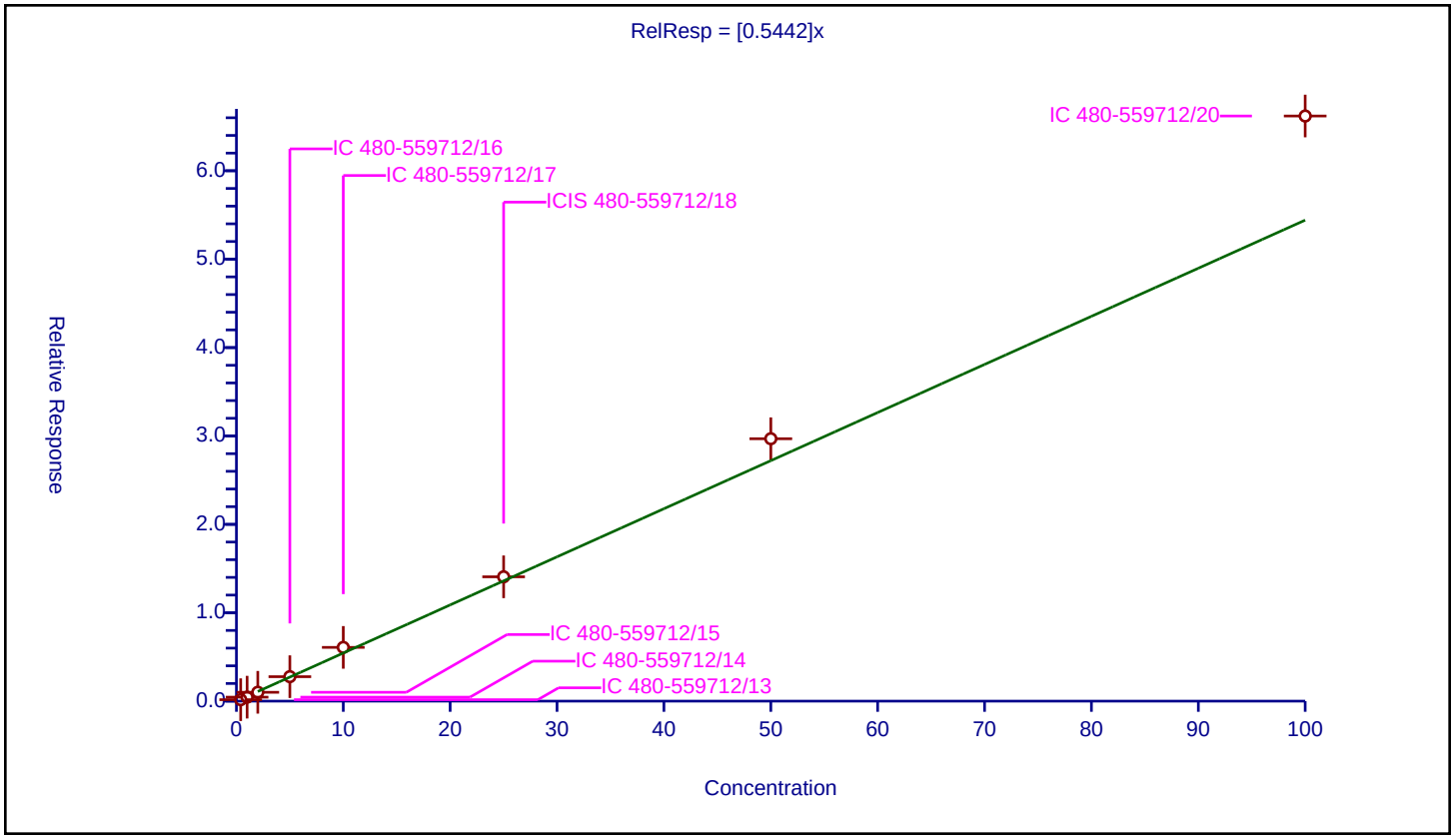
Curve Coefficients

Intercept:	0
Slope:	0.5442

Error Coefficients

Standard Error:	462000
Relative Standard Error:	15.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.167719	25.0	385318.0	0.419297	Y
2	IC 480-559712/14	1.0	0.451526	25.0	417695.0	0.451526	Y
3	IC 480-559712/15	2.0	1.003815	25.0	403685.0	0.501907	Y
4	IC 480-559712/16	5.0	2.770989	25.0	389094.0	0.554198	Y
5	IC 480-559712/17	10.0	6.081658	25.0	401971.0	0.608166	Y
6	ICIS 480-559712/18	25.0	14.066377	25.0	434458.0	0.562655	Y
7	IC 480-559712/19	50.0	29.687737	25.0	427701.0	0.593755	Y
8	IC 480-559712/20	100.0	66.194565	25.0	407575.0	0.661946	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

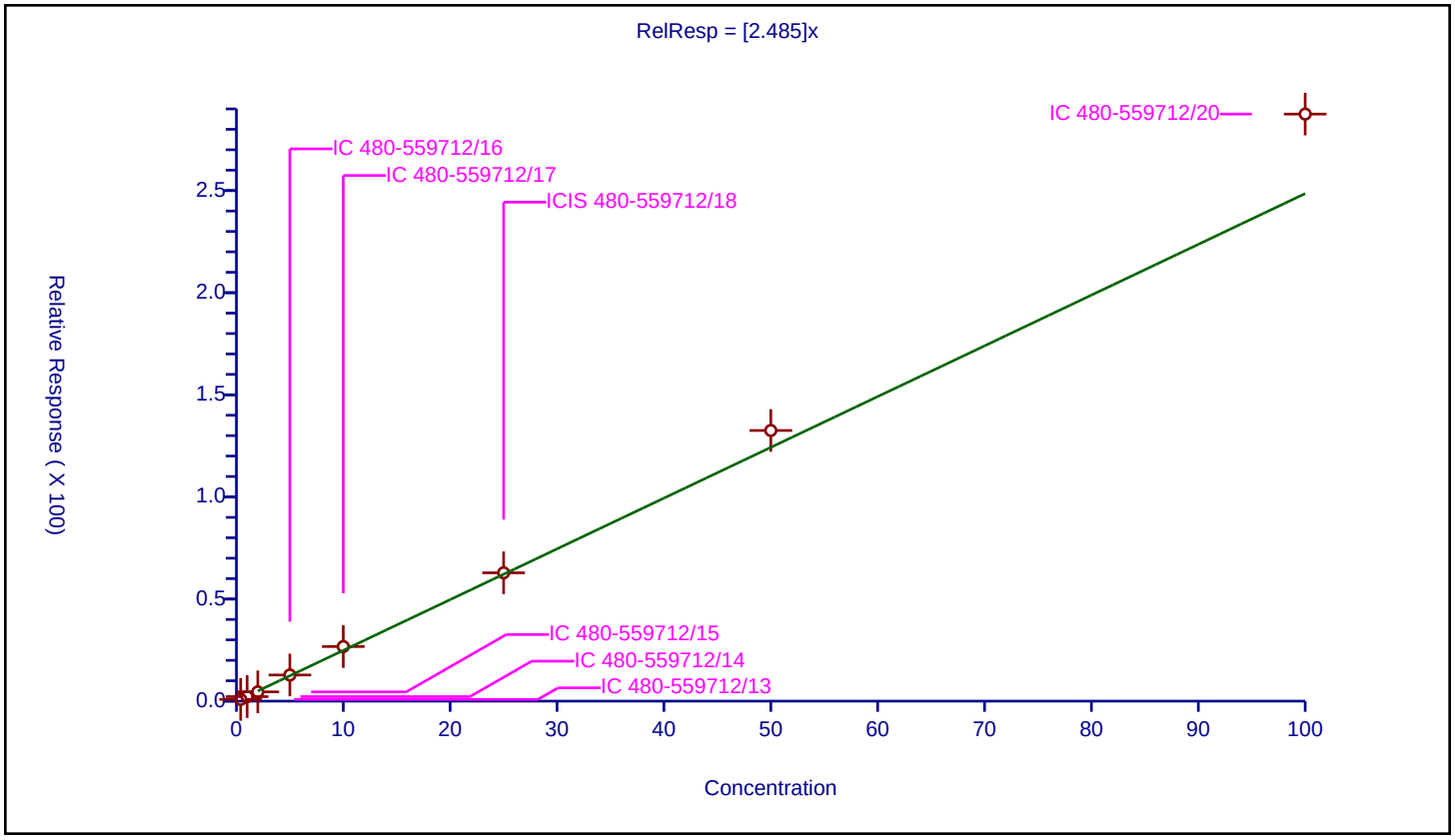
Curve Coefficients

Intercept:	0
Slope:	2.485

Error Coefficients

Standard Error:	2020000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.845665	25.0	385318.0	2.114163	Y
2	IC 480-559712/14	1.0	2.226804	25.0	417695.0	2.226804	Y
3	IC 480-559712/15	2.0	4.538873	25.0	403685.0	2.269437	Y
4	IC 480-559712/16	5.0	12.803076	25.0	389094.0	2.560615	Y
5	IC 480-559712/17	10.0	26.729167	25.0	401971.0	2.672917	Y
6	ICIS 480-559712/18	25.0	62.840424	25.0	434458.0	2.513617	Y
7	IC 480-559712/19	50.0	132.535872	25.0	427701.0	2.650717	Y
8	IC 480-559712/20	100.0	287.457032	25.0	407575.0	2.87457	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

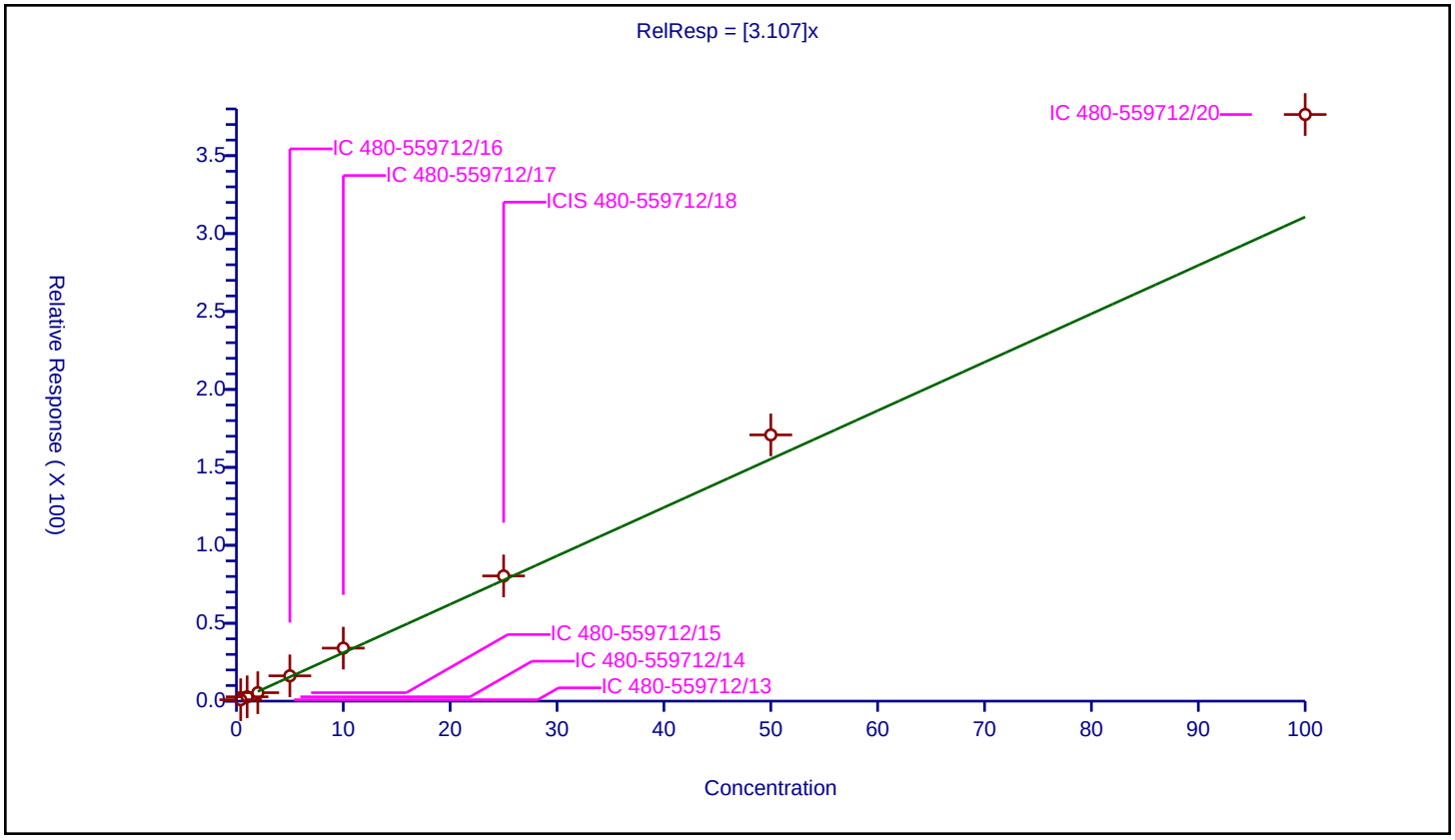
Curve Coefficients

Intercept:	0
Slope:	3.107

Error Coefficients

Standard Error:	2630000
Relative Standard Error:	15.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.919825	25.0	385318.0	2.299562	Y
2	IC 480-559712/14	1.0	2.800429	25.0	417695.0	2.800429	Y
3	IC 480-559712/15	2.0	5.420625	25.0	403685.0	2.710312	Y
4	IC 480-559712/16	5.0	16.236179	25.0	389094.0	3.247236	Y
5	IC 480-559712/17	10.0	34.020862	25.0	401971.0	3.402086	Y
6	ICIS 480-559712/18	25.0	80.339009	25.0	434458.0	3.21356	Y
7	IC 480-559712/19	50.0	170.85084	25.0	427701.0	3.417017	Y
8	IC 480-559712/20	100.0	376.419923	25.0	407575.0	3.764199	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

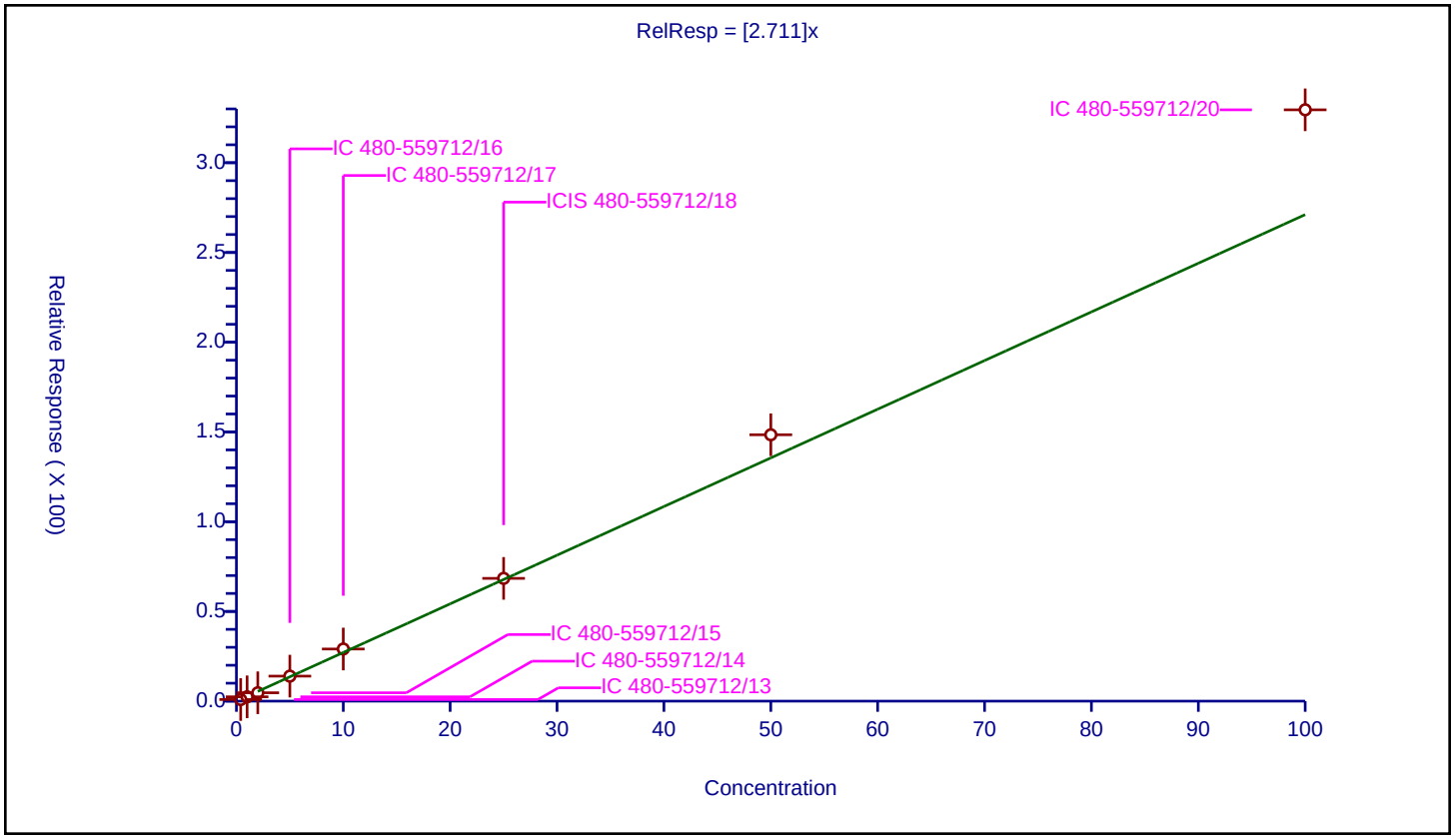
Curve Coefficients

Intercept:	0
Slope:	2.711

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.89517	25.0	385318.0	2.237924	Y
2	IC 480-559712/14	1.0	2.419229	25.0	417695.0	2.419229	Y
3	IC 480-559712/15	2.0	4.67326	25.0	403685.0	2.33663	Y
4	IC 480-559712/16	5.0	13.943482	25.0	389094.0	2.788696	Y
5	IC 480-559712/17	10.0	29.058875	25.0	401971.0	2.905887	Y
6	ICIS 480-559712/18	25.0	68.408281	25.0	434458.0	2.736331	Y
7	IC 480-559712/19	50.0	148.419632	25.0	427701.0	2.968393	Y
8	IC 480-559712/20	100.0	329.496044	25.0	407575.0	3.29496	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

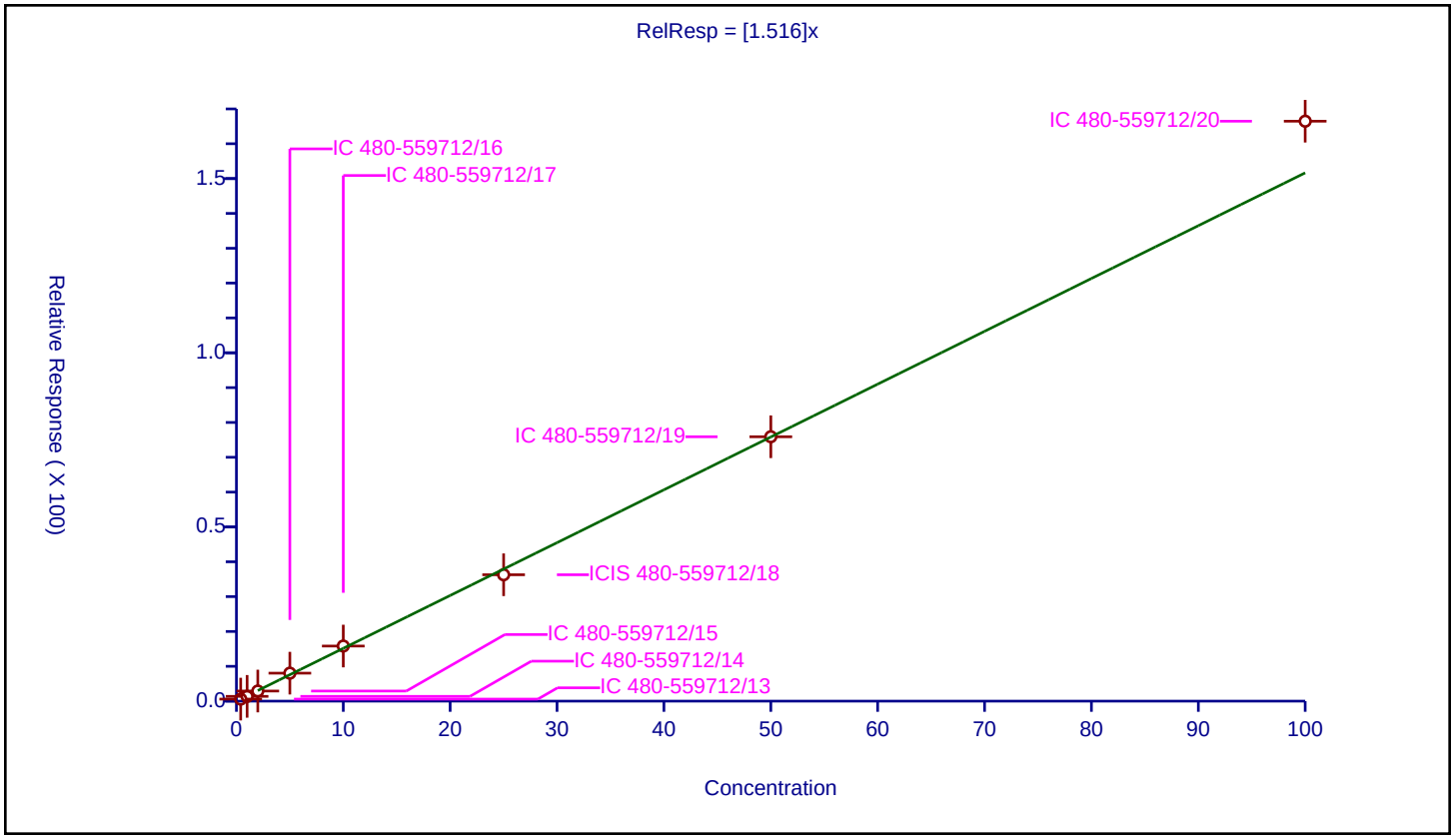
Curve Coefficients

Intercept:	0
Slope:	1.516

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.595742	25.0	385318.0	1.489354	Y
2	IC 480-559712/14	1.0	1.370917	25.0	417695.0	1.370917	Y
3	IC 480-559712/15	2.0	2.897556	25.0	403685.0	1.448778	Y
4	IC 480-559712/16	5.0	8.033534	25.0	389094.0	1.606707	Y
5	IC 480-559712/17	10.0	15.822597	25.0	401971.0	1.58226	Y
6	ICIS 480-559712/18	25.0	36.282046	25.0	434458.0	1.451282	Y
7	IC 480-559712/19	50.0	75.899343	25.0	427701.0	1.517987	Y
8	IC 480-559712/20	100.0	166.470036	25.0	407575.0	1.6647	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

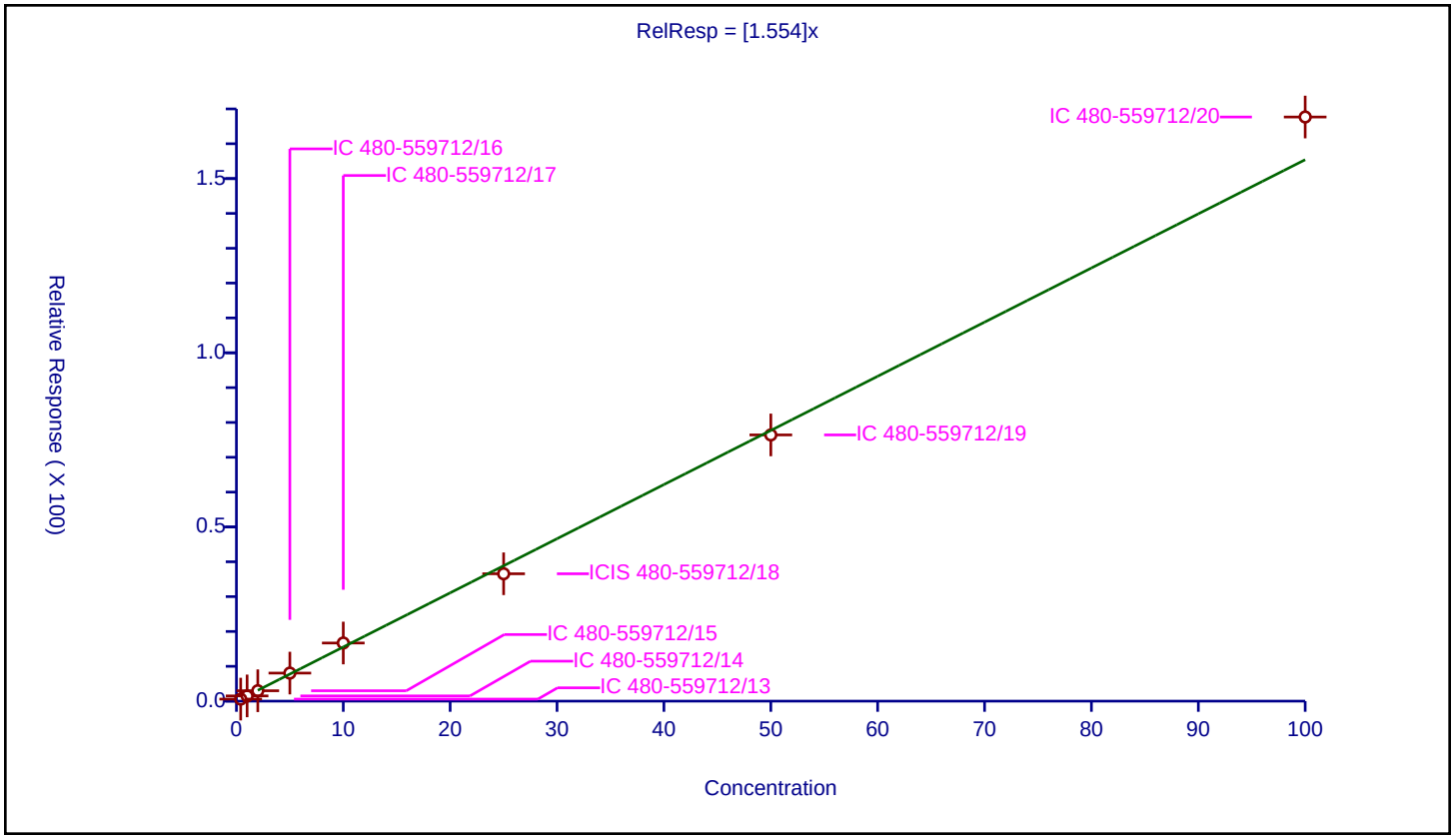
Curve Coefficients

Intercept:	0
Slope:	1.554

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.595742	25.0	385318.0	1.489354	Y
2	IC 480-559712/14	1.0	1.50325	25.0	417695.0	1.50325	Y
3	IC 480-559712/15	2.0	2.987478	25.0	403685.0	1.493739	Y
4	IC 480-559712/16	5.0	8.052681	25.0	389094.0	1.610536	Y
5	IC 480-559712/17	10.0	16.689326	25.0	401971.0	1.668933	Y
6	ICIS 480-559712/18	25.0	36.564984	25.0	434458.0	1.462599	Y
7	IC 480-559712/19	50.0	76.414715	25.0	427701.0	1.528294	Y
8	IC 480-559712/20	100.0	167.673496	25.0	407575.0	1.676735	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

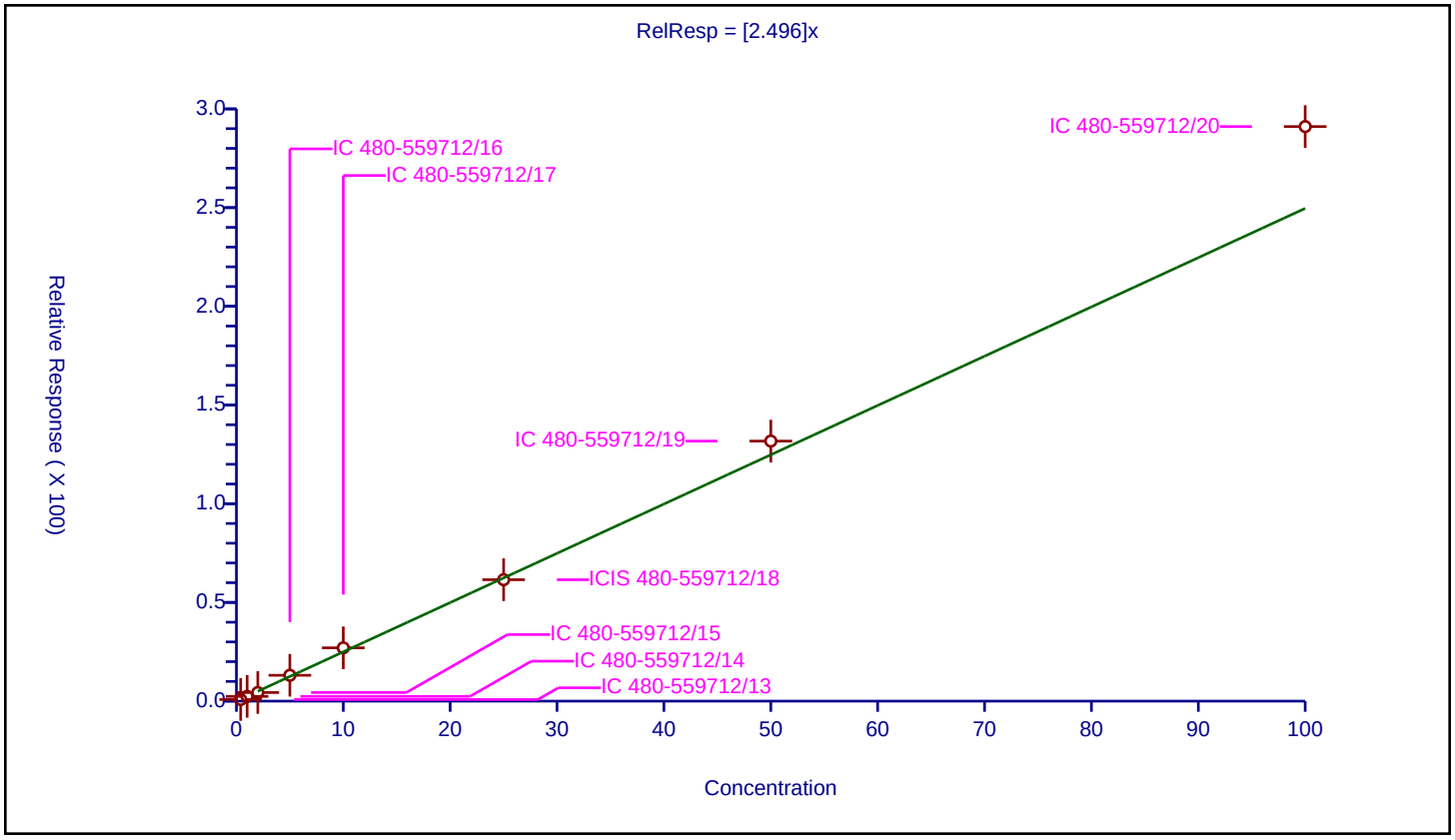
Curve Coefficients

Intercept:	0
Slope:	2.496

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.822308	25.0	385318.0	2.05577	Y
2	IC 480-559712/14	1.0	2.407438	25.0	417695.0	2.407438	Y
3	IC 480-559712/15	2.0	4.363984	25.0	403685.0	2.181992	Y
4	IC 480-559712/16	5.0	13.092595	25.0	389094.0	2.618519	Y
5	IC 480-559712/17	10.0	26.999336	25.0	401971.0	2.699934	Y
6	ICIS 480-559712/18	25.0	61.511987	25.0	434458.0	2.460479	Y
7	IC 480-559712/19	50.0	131.734261	25.0	427701.0	2.634685	Y
8	IC 480-559712/20	100.0	291.036619	25.0	407575.0	2.910366	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

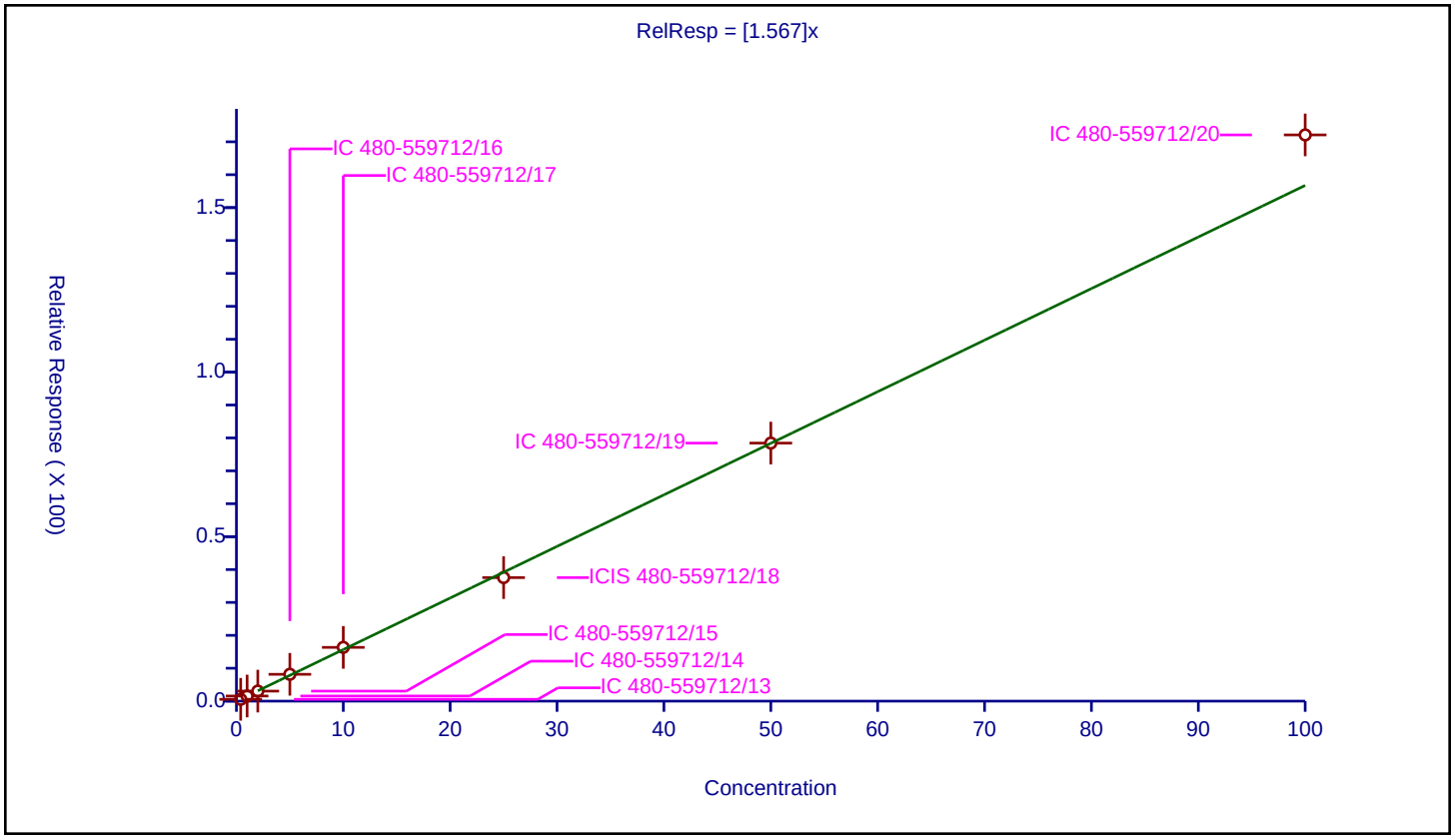
Curve Coefficients

Intercept:	0
Slope:	1.567

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.557462	25.0	385318.0	1.393654	Y
2	IC 480-559712/14	1.0	1.55981	25.0	417695.0	1.55981	Y
3	IC 480-559712/15	2.0	3.054362	25.0	403685.0	1.527181	Y
4	IC 480-559712/16	5.0	8.159918	25.0	389094.0	1.631984	Y
5	IC 480-559712/17	10.0	16.349749	25.0	401971.0	1.634975	Y
6	ICIS 480-559712/18	25.0	37.555817	25.0	434458.0	1.502233	Y
7	IC 480-559712/19	50.0	78.431194	25.0	427701.0	1.568624	Y
8	IC 480-559712/20	100.0	172.094338	25.0	407575.0	1.720943	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

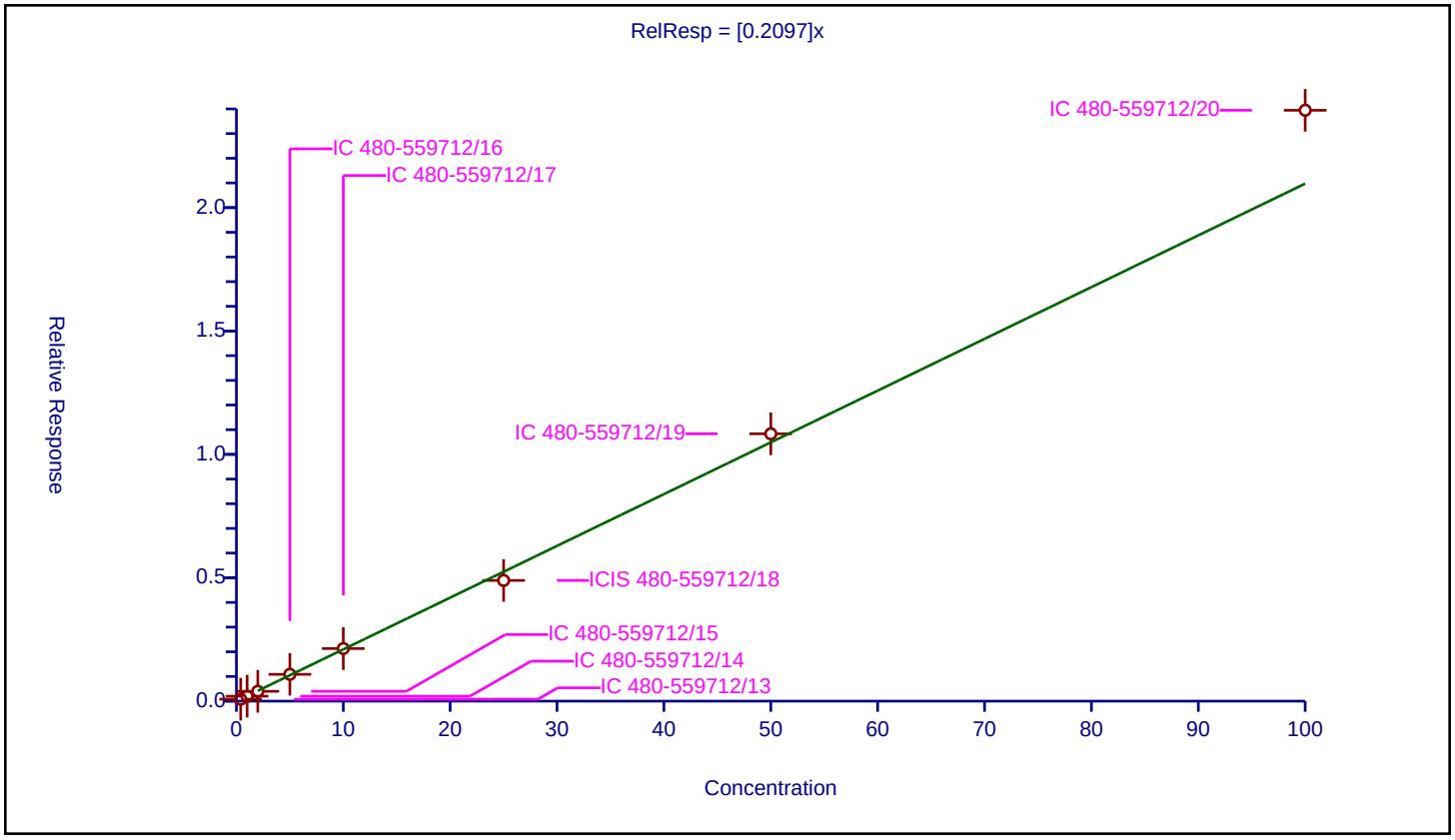
Curve Coefficients

Intercept:	0
Slope:	0.2097

Error Coefficients

Standard Error:	167000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.078507	25.0	385318.0	0.196266	Y
2	IC 480-559712/14	1.0	0.199727	25.0	417695.0	0.199727	Y
3	IC 480-559712/15	2.0	0.399012	25.0	403685.0	0.199506	Y
4	IC 480-559712/16	5.0	1.086498	25.0	389094.0	0.2173	Y
5	IC 480-559712/17	10.0	2.131559	25.0	401971.0	0.213156	Y
6	ICIS 480-559712/18	25.0	4.892418	25.0	434458.0	0.195697	Y
7	IC 480-559712/19	50.0	10.834964	25.0	427701.0	0.216699	Y
8	IC 480-559712/20	100.0	23.944857	25.0	407575.0	0.239449	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

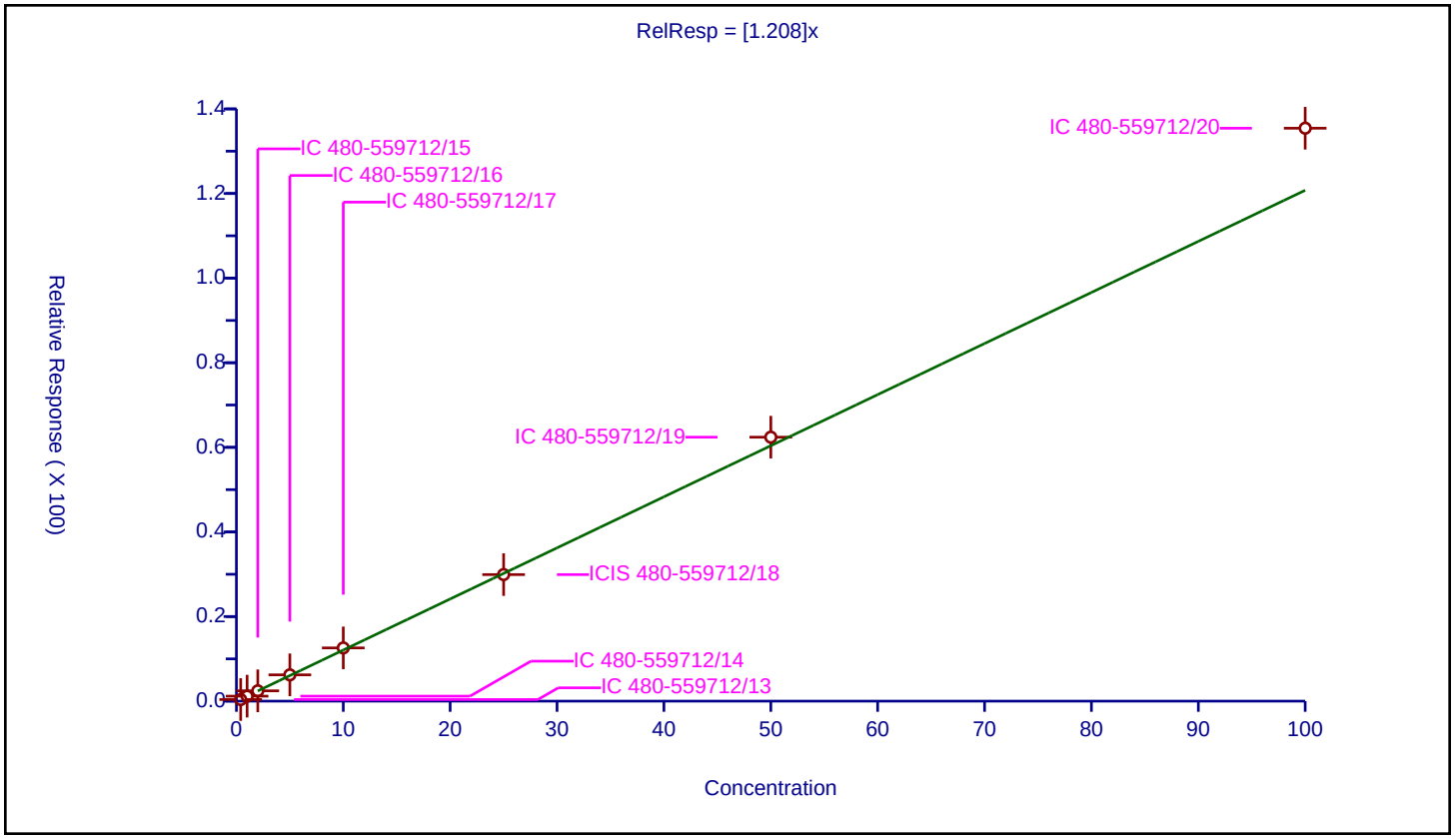
Curve Coefficients

Intercept:	0
Slope:	1.208

Error Coefficients

Standard Error:	951000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.383579	25.0	385318.0	0.958948	Y
2	IC 480-559712/14	1.0	1.18322	25.0	417695.0	1.18322	Y
3	IC 480-559712/15	2.0	2.436987	25.0	403685.0	1.218493	Y
4	IC 480-559712/16	5.0	6.214437	25.0	389094.0	1.242887	Y
5	IC 480-559712/17	10.0	12.584552	25.0	401971.0	1.258455	Y
6	ICIS 480-559712/18	25.0	29.917852	25.0	434458.0	1.196714	Y
7	IC 480-559712/19	50.0	62.395985	25.0	427701.0	1.24792	Y
8	IC 480-559712/20	100.0	135.435319	25.0	407575.0	1.354353	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

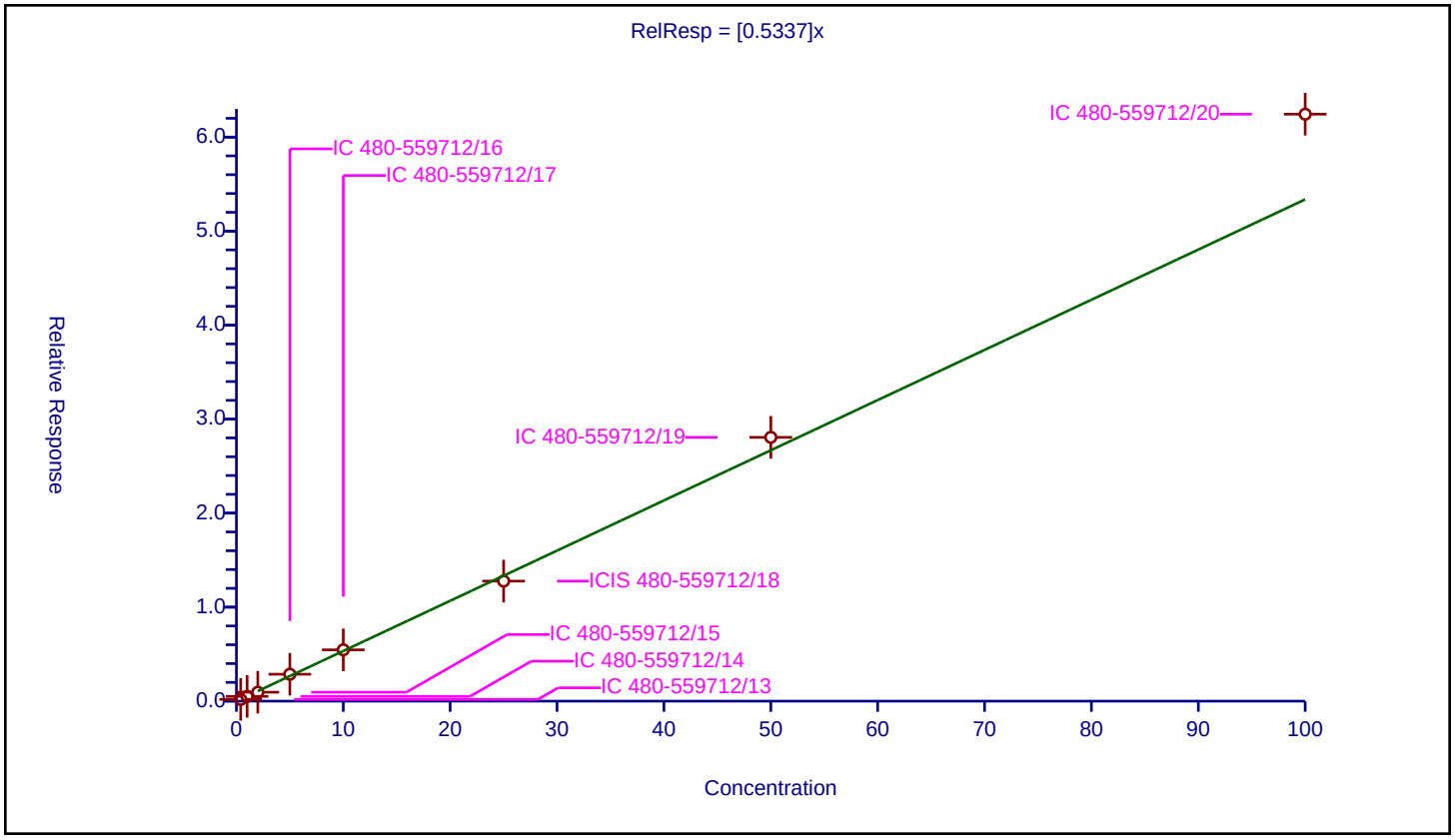
Curve Coefficients

Intercept:	0
Slope:	0.5337

Error Coefficients

Standard Error:	435000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.187507	25.0	385318.0	0.468769	Y
2	IC 480-559712/14	1.0	0.511498	25.0	417695.0	0.511498	Y
3	IC 480-559712/15	2.0	0.949317	25.0	403685.0	0.474658	Y
4	IC 480-559712/16	5.0	2.862162	25.0	389094.0	0.572432	Y
5	IC 480-559712/17	10.0	5.459038	25.0	401971.0	0.545904	Y
6	ICIS 480-559712/18	25.0	12.773962	25.0	434458.0	0.510958	Y
7	IC 480-559712/19	50.0	28.064232	25.0	427701.0	0.561285	Y
8	IC 480-559712/20	100.0	62.436791	25.0	407575.0	0.624368	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

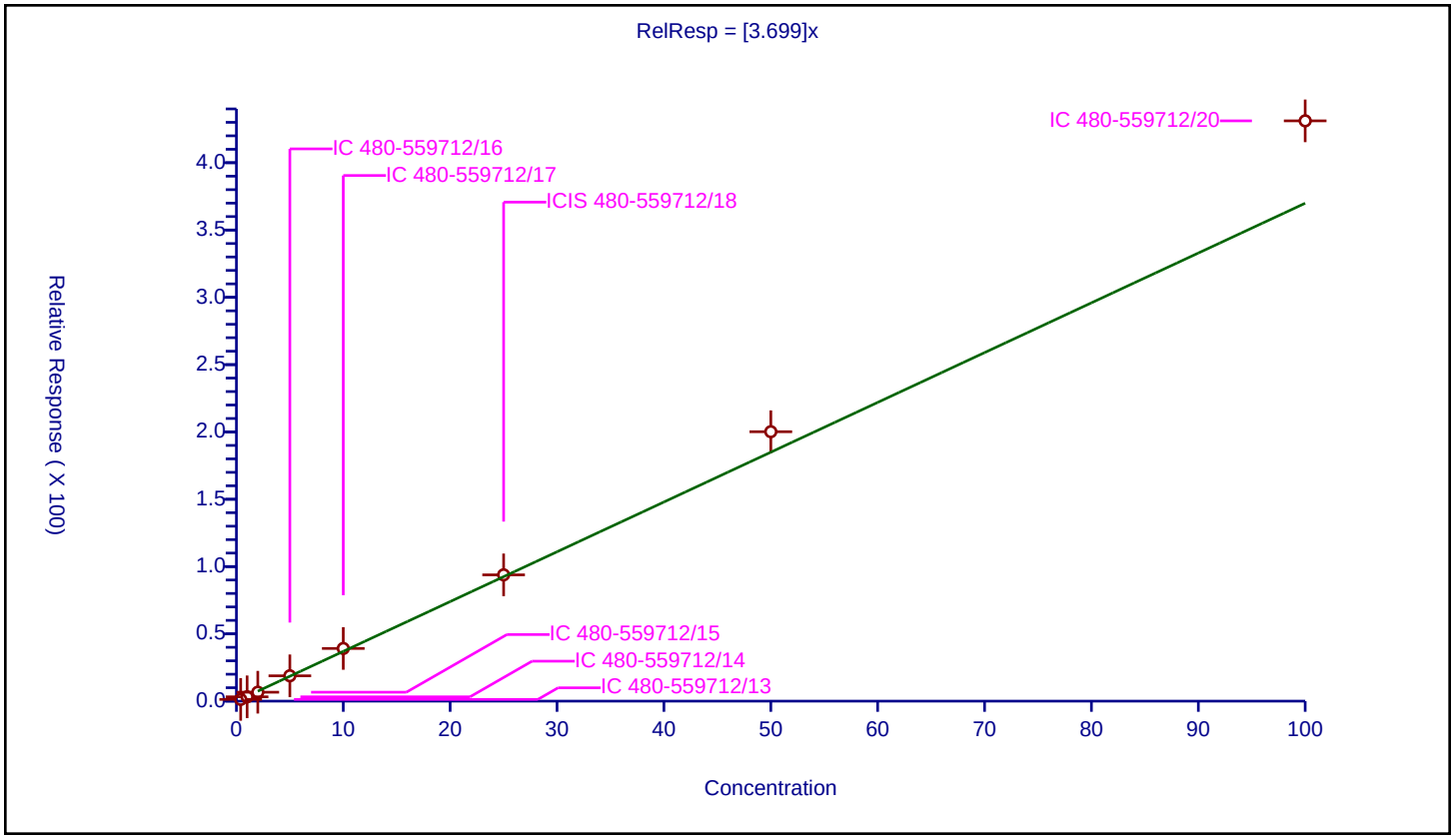
Curve Coefficients

Intercept:	0
Slope:	3.699

Error Coefficients

Standard Error:	3030000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	1.312033	25.0	385318.0	3.280083	Y
2	IC 480-559712/14	1.0	3.239086	25.0	417695.0	3.239086	Y
3	IC 480-559712/15	2.0	6.64206	25.0	403685.0	3.32103	Y
4	IC 480-559712/16	5.0	18.845253	25.0	389094.0	3.769051	Y
5	IC 480-559712/17	10.0	39.14959	25.0	401971.0	3.914959	Y
6	ICIS 480-559712/18	25.0	93.843076	25.0	434458.0	3.753723	Y
7	IC 480-559712/19	50.0	200.185235	25.0	427701.0	4.003705	Y
8	IC 480-559712/20	100.0	431.122983	25.0	407575.0	4.31123	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

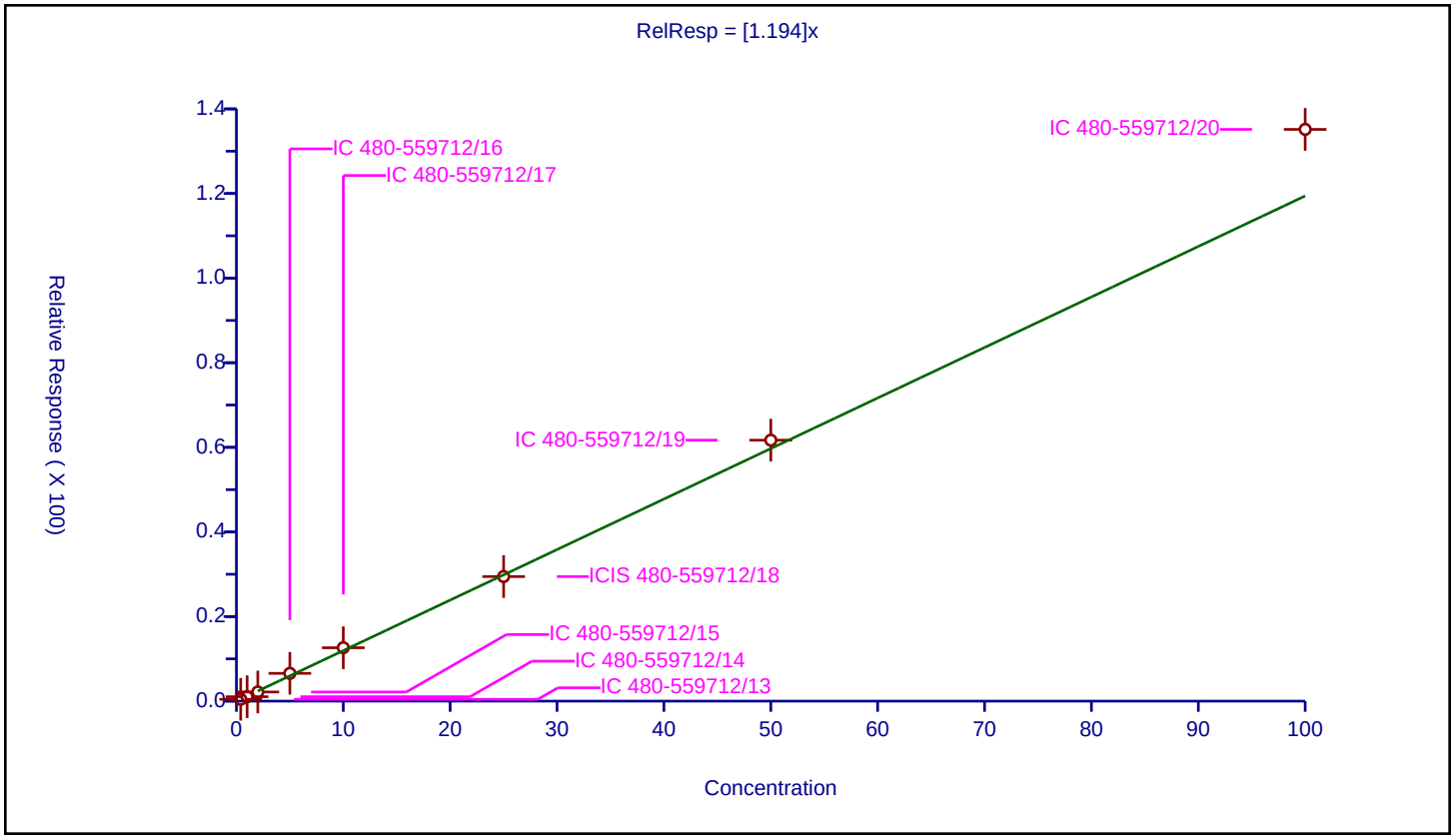
Curve Coefficients

Intercept:	0
Slope:	1.194

Error Coefficients

Standard Error:	947000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-559712/13	0.4	0.435549	25.0	385318.0	1.088873	Y
2	IC 480-559712/14	1.0	1.040173	25.0	417695.0	1.040173	Y
3	IC 480-559712/15	2.0	2.169761	25.0	403685.0	1.084881	Y
4	IC 480-559712/16	5.0	6.569749	25.0	389094.0	1.31395	Y
5	IC 480-559712/17	10.0	12.627839	25.0	401971.0	1.262784	Y
6	ICIS 480-559712/18	25.0	29.455609	25.0	434458.0	1.178224	Y
7	IC 480-559712/19	50.0	61.693625	25.0	427701.0	1.233872	Y
8	IC 480-559712/20	100.0	135.158192	25.0	407575.0	1.351582	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561174/3 Calibration Date: 11/28/2020 11:27

Instrument ID: HP5973C Calib Start Date: 11/18/2020 15:16

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 11/18/2020 18:12

Lab File ID: C2721.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.493	1.617	0.1000	27.1	25.0	8.4	50.0
Chloromethane	Ave	1.460	1.400	0.1000	24.0	25.0	-4.1	20.0
Vinyl chloride	Ave	1.460	1.474	0.1000	25.2	25.0	0.9	20.0
Butadiene	Ave	1.346	1.330		24.7	25.0	-1.2	20.0
Bromomethane	Ave	1.338	1.236	0.1000	23.1	25.0	-7.6	50.0
Chloroethane	Ave	1.016	0.9672	0.1000	23.8	25.0	-4.8	50.0
Dichlorofluoromethane	Ave	2.374	2.496		26.3	25.0	5.1	20.0
Trichlorofluoromethane	Ave	2.419	2.697	0.1000	27.9	25.0	11.5	20.0
Ethyl ether	Ave	1.166	1.106		23.7	25.0	-5.1	20.0
Acrolein	Ave	0.0764	0.0677		111	125	-11.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.466	1.521	0.1000	25.9	25.0	3.8	20.0
1,1-Dichloroethene	Ave	1.314	1.274	0.1000	24.2	25.0	-3.1	20.0
Acetone	Ave	0.6474	0.5357	0.1000	103	125	-17.3	50.0
Iodomethane	Ave	2.587	2.610		25.2	25.0	0.9	20.0
Carbon disulfide	Ave	4.306	4.194	0.1000	24.3	25.0	-2.6	20.0
Allyl chloride	Ave	1.722	1.664		24.2	25.0	-3.4	20.0
Methyl acetate	Ave	1.364	1.052	0.1000	38.6	50.0	-22.9	50.0
Methylene Chloride	Lin1		1.487	0.1000	25.6	25.0	2.5	20.0
2-Methyl-2-propanol	Ave	0.3215	0.2068		161	250	-35.7	50.0
Methyl tert-butyl ether	Ave	4.264	4.201	0.1000	24.6	25.0	-1.5	20.0
trans-1,2-Dichloroethene	Ave	1.485	1.507	0.1000	25.4	25.0	1.5	20.0
Acrylonitrile	Ave	0.7357	0.5772		196	250	-21.6*	20.0
Hexane	Ave	1.796	1.748		24.3	25.0	-2.6	20.0
1,1-Dichloroethane	Ave	2.349	2.343	0.2000	24.9	25.0	-0.3	20.0
Vinyl acetate	Ave	2.870	2.489		43.4	50.0	-13.3	20.0
2,2-Dichloropropane	Ave	1.487	1.847		31.1	25.0	24.2*	20.0
cis-1,2-Dichloroethene	Ave	1.668	1.616	0.1000	24.2	25.0	-3.1	20.0
2-Butanone (MEK)	Ave	0.9297	0.6681	0.1000	89.8	125	-28.1*	20.0
Chlorobromomethane	Ave	0.9468	0.9318		24.6	25.0	-1.6	20.0
Tetrahydrofuran	Ave	0.7208	0.4506		31.3	50.0	-37.5*	20.0
Chloroform	Ave	2.660	2.566	0.2000	24.1	25.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	2.019	2.114	0.1000	26.2	25.0	4.7	20.0
Cyclohexane	Ave	2.053	2.138	0.1000	26.0	25.0	4.1	20.0
Carbon tetrachloride	Ave	1.744	1.837	0.1000	26.3	25.0	5.3	20.0
1,1-Dichloropropene	Ave	1.825	1.919		26.3	25.0	5.1	20.0
Benzene	Ave	5.205	5.080	0.5000	24.4	25.0	-2.4	20.0
Isobutyl alcohol	Ave	0.0996	0.0671		421	625	-32.6	50.0
1,2-Dichloroethane	Ave	1.997	1.945	0.1000	24.4	25.0	-2.6	20.0
n-Heptane	Ave	1.701	1.641		24.1	25.0	-3.6	20.0
Trichloroethene	Ave	1.496	1.469	0.2000	24.6	25.0	-1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561174/3 Calibration Date: 11/28/2020 11:27

Instrument ID: HP5973C Calib Start Date: 11/18/2020 15:16

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 11/18/2020 18:12

Lab File ID: C2721.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	2.352	2.518	0.1000	26.8	25.0	7.1	20.0
1,2-Dichloropropane	Ave	1.191	1.124	0.1000	23.6	25.0	-5.6	20.0
1,4-Dioxane	Ave	0.0136	0.0108		399	500	-20.1	50.0
Dibromomethane	Ave	0.996	0.9234	0.1000	23.2	25.0	-7.3	20.0
Bromodichloromethane	Ave	1.685	1.634	0.2000	24.2	25.0	-3.0	20.0
2-Chloroethyl vinyl ether	Ave	0.8167	0.5965		18.3	25.0	-27.0*	20.0
cis-1,3-Dichloropropene	Ave	1.839	1.696	0.2000	23.1	25.0	-7.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8984	0.7221	0.1000	100	125	-19.6	20.0
Toluene	Ave	1.680	1.639	0.4000	24.4	25.0	-2.4	20.0
trans-1,3-Dichloropropene	Ave	0.8624	0.7921	0.1000	23.0	25.0	-8.2	20.0
Ethyl methacrylate	Ave	0.8323	0.6884		20.7	25.0	-17.3	20.0
1,1,2-Trichloroethane	Ave	0.5258	0.4766	0.1000	22.7	25.0	-9.4	20.0
Tetrachloroethene	Ave	0.7970	0.7926	0.2000	24.9	25.0	-0.6	20.0
1,3-Dichloropropane	Ave	1.038	0.9378		22.6	25.0	-9.7	20.0
2-Hexanone	Ave	0.6094	0.4204	0.1000	86.2	125	-31.0*	20.0
Dibromochloromethane	Ave	0.6840	0.6438	0.1000	23.5	25.0	-5.9	20.0
1,2-Dibromoethane	Ave	0.6932	0.6249		22.5	25.0	-9.9	20.0
Chlorobenzene	Ave	1.966	1.845	0.5000	23.5	25.0	-6.1	20.0
Ethylbenzene	Ave	3.095	3.006	0.1000	24.3	25.0	-2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6787	0.7210		26.6	25.0	6.2	20.0
m,p-Xylene	Ave	1.204	1.204	0.1000	25.0	25.0	0.0	20.0
o-Xylene	Ave	1.216	1.263	0.3000	26.0	25.0	3.8	20.0
Styrene	Ave	1.817	1.803	0.3000	24.8	25.0	-0.8	20.0
Bromoform	Ave	0.4717	0.3992	0.1000	21.2	25.0	-15.4	50.0
Isopropylbenzene	Ave	2.911	3.196	0.1000	27.4	25.0	9.8	20.0
Bromobenzene	Ave	0.7777	0.7543		24.2	25.0	-3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9312	0.8581	0.3000	23.0	25.0	-7.8	20.0
N-Propylbenzene	Ave	3.469	3.569		25.7	25.0	2.9	20.0
1,2,3-Trichloropropane	Ave	0.3291	0.2780		21.1	25.0	-15.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2348	0.1380		14.7	25.0	-41.2	50.0
2-Chlorotoluene	Ave	0.7425	0.7801		26.3	25.0	5.1	20.0
1,3,5-Trimethylbenzene	Ave	2.441	2.689		27.5	25.0	10.2	20.0
4-Chlorotoluene	Ave	0.7501	0.7405		24.7	25.0	-1.3	20.0
tert-Butylbenzene	Ave	0.5442	0.6144		28.2	25.0	12.9	20.0
1,2,4-Trimethylbenzene	Ave	2.485	2.673		26.9	25.0	7.6	20.0
sec-Butylbenzene	Ave	3.107	3.535		28.4	25.0	13.8	20.0
4-Isopropyltoluene	Ave	2.711	3.048		28.1	25.0	12.4	20.0
1,3-Dichlorobenzene	Ave	1.516	1.466	0.6000	24.2	25.0	-3.3	20.0
1,4-Dichlorobenzene	Ave	1.554	1.475	0.5000	23.7	25.0	-5.1	20.0
n-Butylbenzene	Ave	2.496	2.619		26.2	25.0	4.9	20.0
1,2-Dichlorobenzene	Ave	1.567	1.567	0.4000	25.0	25.0	-0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561174/3 Calibration Date: 11/28/2020 11:27

Instrument ID: HP5973C Calib Start Date: 11/18/2020 15:16

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 11/18/2020 18:12

Lab File ID: C2721.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	0.2097	0.1469	0.0500	17.5	25.0	-30.0	50.0
1,2,4-Trichlorobenzene	Ave	1.208	1.202	0.2000	24.9	25.0	-0.4	20.0
Hexachlorobutadiene	Ave	0.5337	0.5302		24.8	25.0	-0.7	20.0
Naphthalene	Ave	3.699	3.329		22.5	25.0	-10.0	20.0
1,2,3-Trichlorobenzene	Ave	1.194	1.236		25.9	25.0	3.5	20.0
Dibromofluoromethane (Surr)	Ave	1.739	1.739		25.0	25.0	0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9402	0.9041		24.0	25.0	-3.8	20.0
Toluene-d8 (Surr)	Ave	2.807	2.714		24.2	25.0	-3.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9105	0.8271		22.7	25.0	-9.2	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2721.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Nov-2020 11:27:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 480-0095298-003
Operator ID: RF Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2020 11:57:22 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: farrellr Date: 28-Nov-2020 11:57:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	167149	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	85	306974	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	323942	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	290682	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	97	151125	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	833169	25.0	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	253898	25.0	22.7	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	270361	25.0	27.1	
12 Chloromethane	50	1.298	1.298	0.000	98	234052	25.0	24.0	
13 Vinyl chloride	62	1.401	1.401	0.000	98	246314	25.0	25.2	
151 Butadiene	54	1.412	1.412	0.000	91	222253	25.0	24.7	
14 Bromomethane	94	1.681	1.681	0.000	90	206631	25.0	23.1	
15 Chloroethane	64	1.774	1.774	0.000	99	161674	25.0	23.8	
17 Trichlorofluoromethane	101	2.002	2.002	0.000	84	450771	25.0	27.9	
16 Dichlorofluoromethane	67	2.002	2.002	0.000	94	417222	25.0	26.3	
18 Ethyl ether	59	2.293	2.293	0.000	90	184928	25.0	23.7	
20 Acrolein	56	2.469	2.469	0.000	99	56599	125.0	110.8	
22 1,1-Dichloroethene	96	2.500	2.500	0.000	98	212874	25.0	24.2	
21 112TCTFE	101	2.500	2.500	0.000	93	254259	25.0	25.9	
23 Acetone	43	2.624	2.624	0.000	99	447681	125.0	103.4	
25 Iodomethane	142	2.655	2.655	0.000	99	436255	25.0	25.2	
26 Carbon disulfide	76	2.686	2.686	0.000	100	701065	25.0	24.3	
28 3-Chloro-1-propene	41	2.863	2.863	0.000	85	278218	25.0	24.2	
27 Methyl acetate	43	2.904	2.904	0.000	97	351689	50.0	38.6	
30 Methylene Chloride	84	2.997	2.997	0.000	89	248601	25.0	25.6	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	99	345650	250.0	160.8	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	96	702155	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.205	3.205	0.000	97	251865	25.0	25.4	
33 Acrylonitrile	53	3.256	3.256	0.000	98	964743	250.0	196.1	
35 Hexane	57	3.381	3.381	0.000	92	292218	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	391705	25.0	24.9	
37 Vinyl acetate	43	3.629	3.629	0.000	97	832032	50.0	43.4	
44 2,2-Dichloropropane	77	4.034	4.034	0.000	91	308775	25.0	31.1	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	77	270142	25.0	24.2	
43 2-Butanone (MEK)	43	4.085	4.085	0.000	99	558378	125.0	89.8	
48 Chlorobromomethane	128	4.262	4.262	0.000	85	155747	25.0	24.6	
49 Tetrahydrofuran	42	4.272	4.272	0.000	82	150650	50.0	31.3	
50 Chloroform	83	4.324	4.324	0.000	94	428821	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	97	353342	25.0	26.2	
52 Cyclohexane	56	4.427	4.427	0.000	88	357311	25.0	26.0	
55 Carbon tetrachloride	117	4.531	4.531	0.000	96	306975	25.0	26.3	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	95	320695	25.0	26.3	
57 Benzene	78	4.707	4.707	0.000	96	849141	25.0	24.4	
53 Isobutyl alcohol	43	4.718	4.718	0.000	89	280459	625.0	421.0	
58 1,2-Dichloroethane	62	4.769	4.769	0.000	98	325109	25.0	24.4	
59 n-Heptane	43	4.842	4.842	0.000	86	274292	25.0	24.1	
62 Trichloroethene	95	5.194	5.194	0.000	95	245571	25.0	24.6	
64 Methylcyclohexane	83	5.298	5.298	0.000	86	420952	25.0	26.8	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	91	187910	25.0	23.6	
66 1,4-Dioxane	88	5.495	5.495	0.000	40	66607	500.0	399.5	
67 Dibromomethane	93	5.505	5.505	0.000	92	154345	25.0	23.2	
68 Dichlorobromomethane	83	5.619	5.619	0.000	98	273147	25.0	24.2	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	93	99709	25.0	18.3	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	94	283532	25.0	23.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	1108347	125.0	100.5	
74 Toluene	92	6.158	6.158	0.000	98	503199	25.0	24.4	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	94	243151	25.0	23.0	
75 Ethyl methacrylate	69	6.386	6.386	0.000	87	211328	25.0	20.7	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	92	146297	25.0	22.7	
81 Tetrachloroethene	166	6.573	6.573	0.000	97	243318	25.0	24.9	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	89	287870	25.0	22.6	
80 2-Hexanone	43	6.676	6.676	0.000	97	645241	125.0	86.2	
83 Chlorodibromomethane	129	6.821	6.821	0.000	90	197638	25.0	23.5	
84 Ethylene Dibromide	107	6.904	6.904	0.000	98	191838	25.0	22.5	
87 Chlorobenzene	112	7.267	7.267	0.000	97	566427	25.0	23.5	
88 Ethylbenzene	91	7.319	7.319	0.000	98	922704	25.0	24.3	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	94	221335	25.0	26.6	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	97	369737	25.0	25.0	
91 o-Xylene	106	7.733	7.733	0.000	97	387666	25.0	26.0	
92 Styrene	104	7.754	7.754	0.000	96	553415	25.0	24.8	
95 Bromoform	173	7.951	7.951	0.000	95	122541	25.0	21.2	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	1035309	25.0	27.4	
101 Bromobenzene	156	8.303	8.303	0.000	89	244337	25.0	24.2	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	98	277967	25.0	23.0	
99 N-Propylbenzene	91	8.345	8.345	0.000	99	1156181	25.0	25.7	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	69	44696	25.0	14.7	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	89	90042	25.0	21.1	
103 2-Chlorotoluene	126	8.438	8.438	0.000	97	252709	25.0	26.3	
102 1,3,5-Trimethylbenzene	105	8.479	8.479	0.000	95	871191	25.0	27.5	
105 4-Chlorotoluene	126	8.531	8.531	0.000	96	239882	25.0	24.7	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	199044	25.0	28.2	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	95	865981	25.0	26.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.925	8.925	0.000	94	1145137	25.0	28.4	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	987367	25.0	28.1	
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	98	474974	25.0	24.2	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	95	477666	25.0	23.7	
115 n-Butylbenzene	91	9.381	9.381	0.000	97	848288	25.0	26.2	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	98	507624	25.0	25.0	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	89	47585	25.0	17.5	
119 1,2,4-Trichlorobenzene	180	10.770	10.770	0.000	94	389442	25.0	24.9	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	97	171740	25.0	24.8	
121 Naphthalene	128	10.977	10.977	0.000	96	1078530	25.0	22.5	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	400320	25.0	25.9	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00198	Amount Added: 12.50	Units: uL	
GAS CORP mix_00429	Amount Added: 12.50	Units: uL	
C_8260_Surr_00167	Amount Added: 2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added: 2.00	Units: uL	Run Reagent

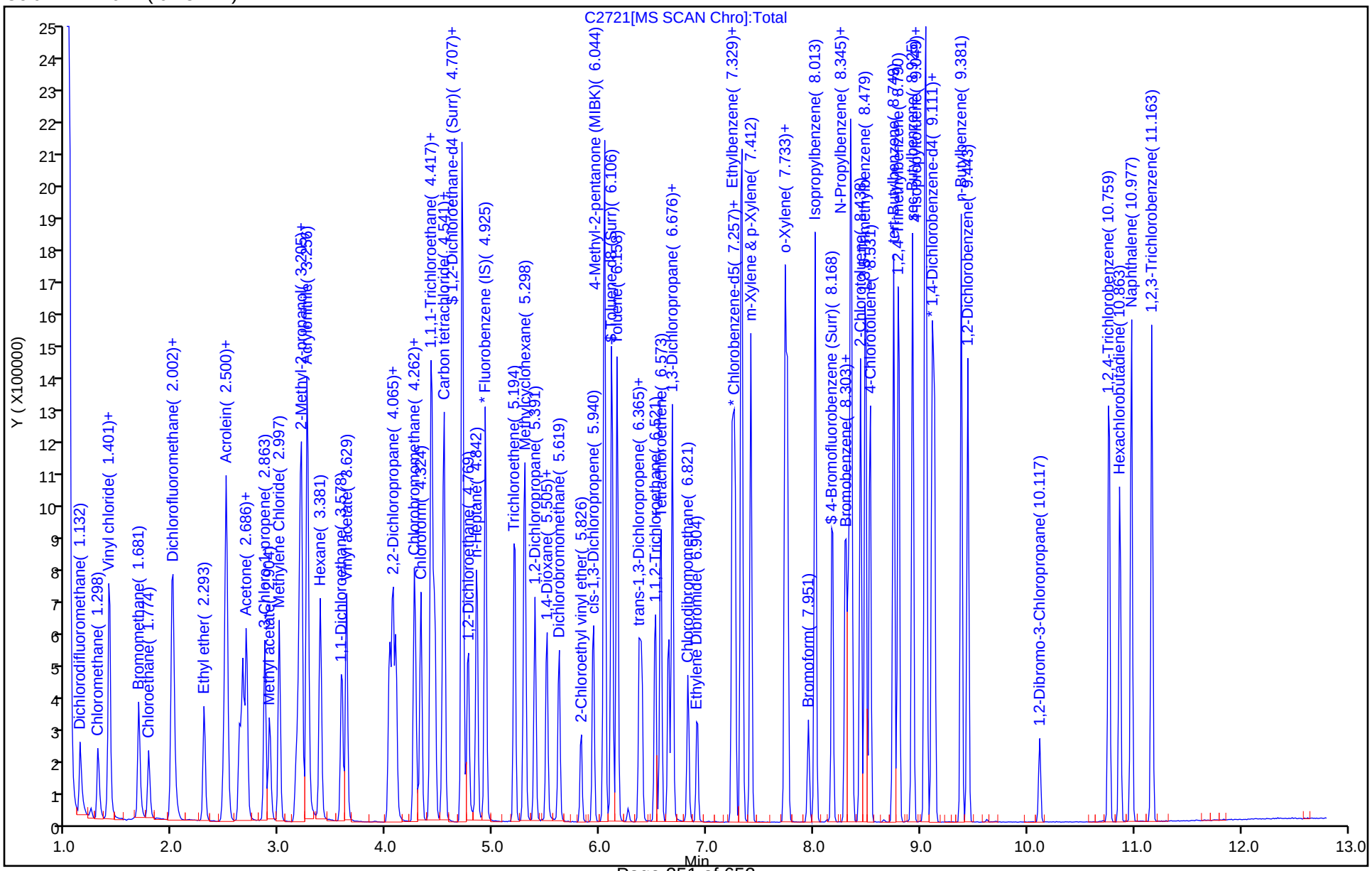
Report Date: 28-Nov-2020 11:57:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2721.D

Injection Date:	28-Nov-2020 11:27:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2263.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	18-Nov-2020 14:24:30	ALS Bottle#:	2	Worklist Smp#:	11
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	bfb				
Misc. Info.:	480-0095057-011				
Operator ID:	RF	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	19-Nov-2020 12:02:24	Calib Date:	18-Nov-2020 22:44:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1624				
First Level Reviewer: farrellr		Date:	18-Nov-2020 14:34:35		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	5.669	5.669	0.000	0	148397	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

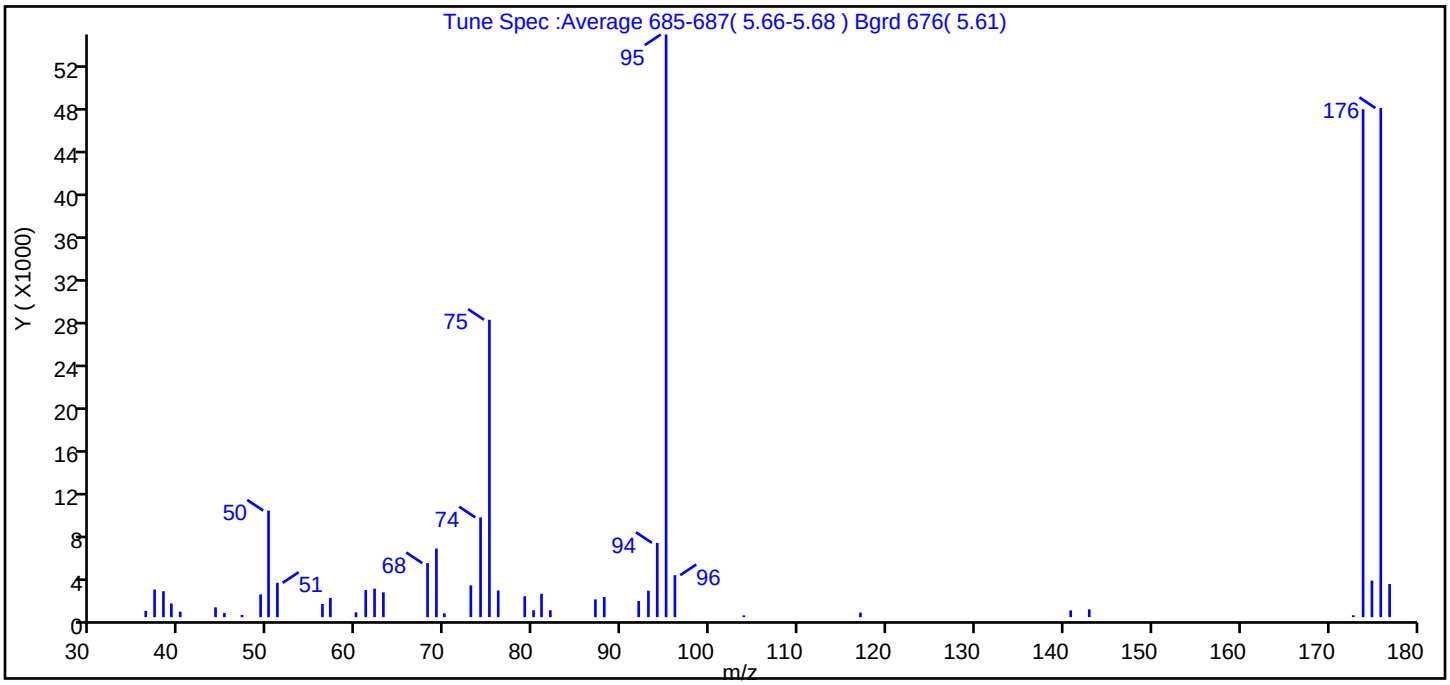
BFB_WRK_00113 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2263.D				
Injection Date:	18-Nov-2020 14:24:30	Instrument ID:	HP5973C		
Lims ID:	BFB				
Client ID:					
Operator ID:	RF	ALS Bottle#:	2	Worklist Smp#:	11
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.3
75	30 to 60% of m/z 95	51.0
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	87.2
175	5 to 9% of m/z 174	6.3 (7.2)
176	Greater than 95% but less than 101% of m/z 174	87.4 (100.2)
177	5 to 9% of m/z 176	5.7 (6.5)

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2263.D\C-8260.rslt\spectra.d
Injection Date: 18-Nov-2020 14:24:30
Spectrum: Tune Spec :Average 685-687(5.66-5.68) Bgrd 676(5.61)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	593	56.00	1232	75.00	27936	95.00	54736
37.00	2592	57.00	1811	76.00	2506	96.00	3942
38.00	2434	60.00	447	79.00	1963	104.00	169
39.00	1284	61.00	2540	80.00	650	117.00	431
40.00	518	62.00	2679	81.00	2191	141.00	635
44.00	924	63.00	2333	82.00	648	143.00	738
45.00	393	68.00	5074	87.00	1666	173.00	181
47.00	205	69.00	6447	88.00	1896	174.00	47712
49.00	2136	70.00	356	92.00	1516	175.00	3439
50.00	10010	73.00	2987	93.00	2489	176.00	47824
51.00	3223	74.00	9372	94.00	6976	177.00	3112

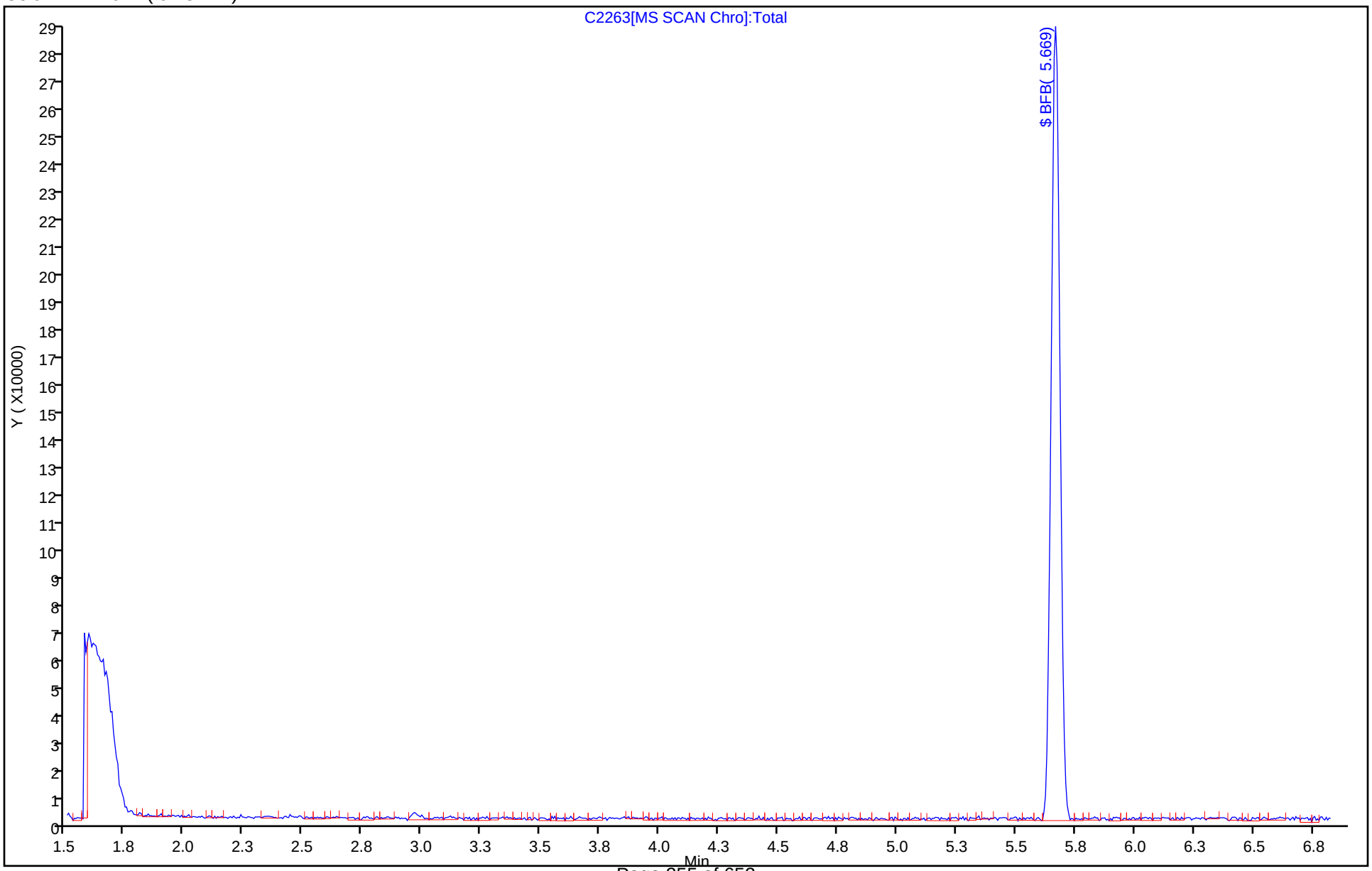
Report Date: 19-Nov-2020 12:02:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2263.D

Injection Date:	18-Nov-2020 14:24:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	BFB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2720.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 28-Nov-2020 11:01:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0095298-002
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2020 11:12:48 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: farrellr Date: 28-Nov-2020 11:12:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	5.669	5.669	0.000	0	109022	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

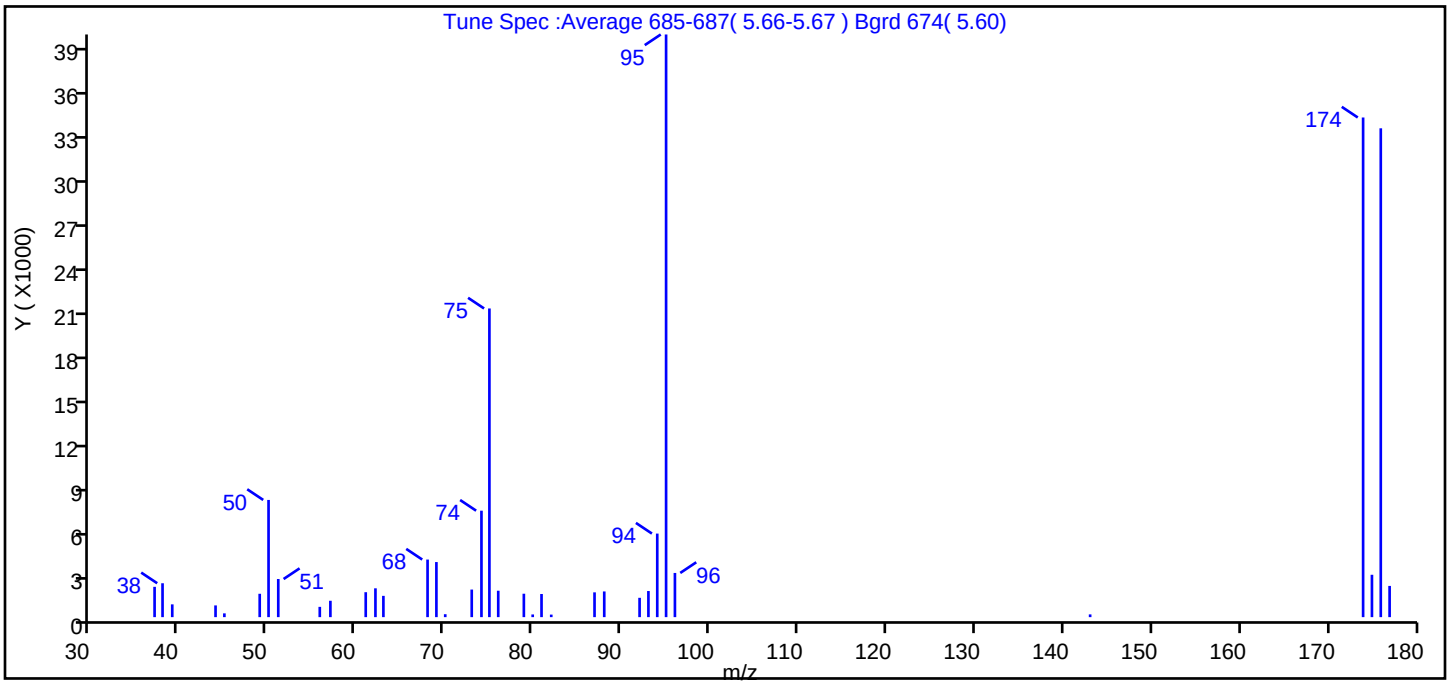
BFB_WRK_00113 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2720.D
Injection Date: 28-Nov-2020 11:01:30 Instrument ID: HP5973C
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	53.0
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.8
175	5 to 9% of m/z 174	7.3 (8.5)
176	Greater than 95% but less than 101% of m/z 174	83.9 (97.8)
177	5 to 9% of m/z 176	5.4 (6.4)

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2720.D\C-8260.rslt\spectra.d
Injection Date: 28-Nov-2020 11:01:30
Spectrum: Tune Spec :Average 685-687(5.66-5.67) Bgrd 674(5.60)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2042	57.00	1103	75.00	20792	93.00	1759
38.00	2283	61.00	1680	76.00	1780	94.00	5629
39.00	861	62.00	1942	79.00	1578	95.00	39248
44.00	790	63.00	1434	80.00	182	96.00	2977
45.00	255	68.00	3879	81.00	1559	143.00	185
49.00	1574	69.00	3711	82.00	172	174.00	33656
50.00	7895	70.00	198	87.00	1670	175.00	2854
51.00	2568	73.00	1858	88.00	1731	176.00	32928
56.00	693	74.00	7171	92.00	1302	177.00	2103

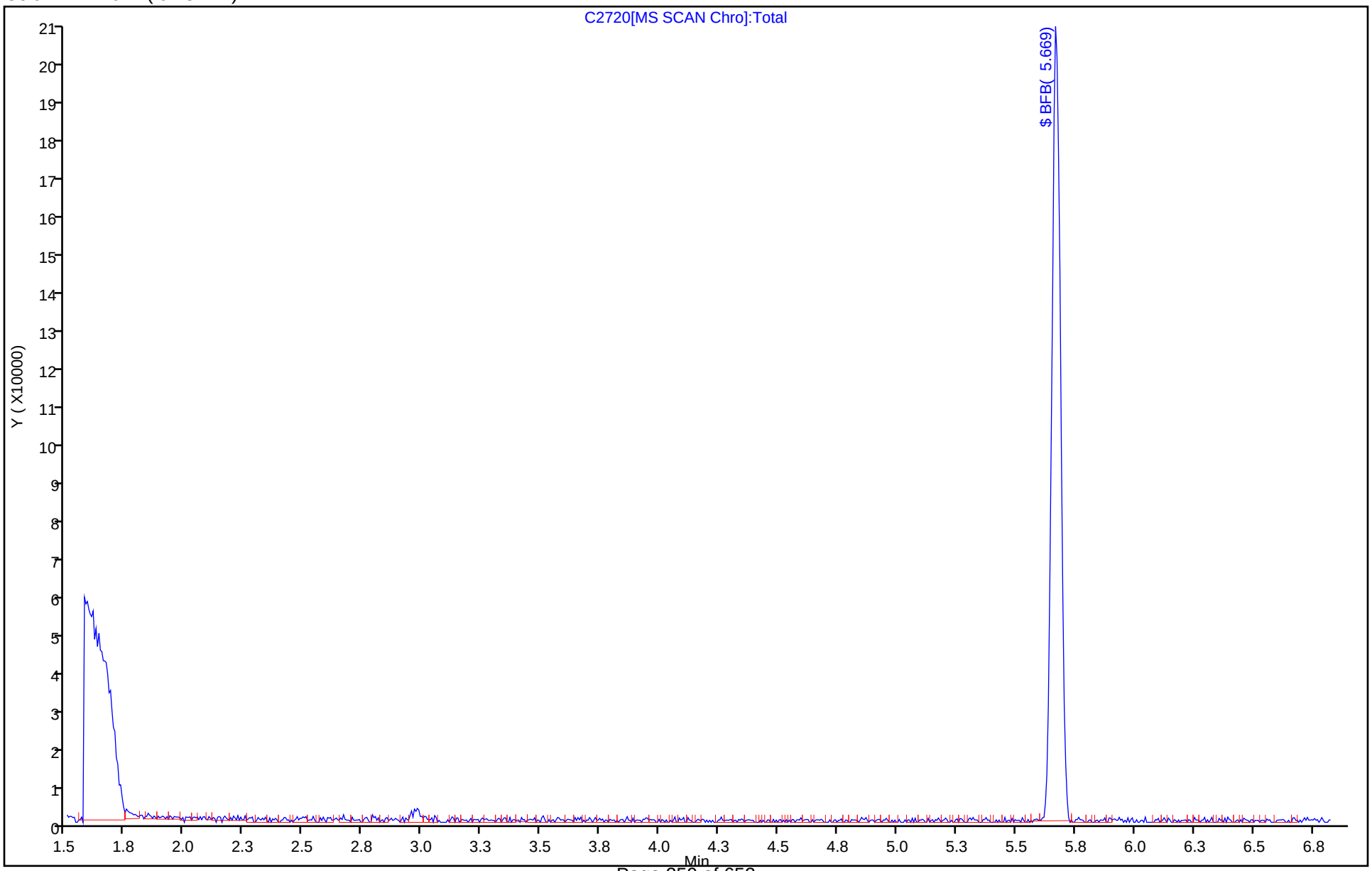
Report Date: 28-Nov-2020 11:12:49 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2720.D

Injection Date:	28-Nov-2020 11:01:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-561174/7

Matrix: Water Lab File ID: C2726.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 13:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2726.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Nov-2020 13:49:30 ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Misc. Info.: 480-0095298-007
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2020 14:18:29 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: farrellr Date: 28-Nov-2020 14:18:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	155766	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	85	257175	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	294969	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	275893	25.0	25.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	143433	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	688647	25.0	23.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	95	220093	25.0	23.5	
10 Dichlorodifluoromethane	85		1.132					ND	
11 Chlorodifluoromethane	51		1.153					ND	
12 Chloromethane	50		1.298					ND	
13 Vinyl chloride	62		1.401					ND	
151 Butadiene	54		1.412					ND	
14 Bromomethane	94		1.681					ND	
15 Chloroethane	64		1.774					ND	
17 Trichlorofluoromethane	101		2.002					ND	
16 Dichlorofluoromethane	67		2.002					ND	
18 Ethyl ether	59		2.293					ND	
148 Ethanol	45		2.303					ND	
19 Propene oxide	58		2.375					ND	
20 Acrolein	56		2.469					ND	
22 1,1-Dichloroethene	96		2.500					ND	
21 112TCTFE	101		2.500					ND	
23 Acetone	43		2.624					ND	
25 Iodomethane	142		2.655					ND	
26 Carbon disulfide	76		2.686					ND	
24 Isopropyl alcohol	45		2.800					ND	
28 3-Chloro-1-propene	41		2.863					ND	
27 Methyl acetate	43		2.904					ND	
29 Acetonitrile	40		2.914					ND	
30 Methylene Chloride	84		2.997					ND	
31 2-Methyl-2-propanol	59		3.163					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.194					ND	
34 trans-1,2-Dichloroethene	96		3.205					ND	
33 Acrylonitrile	53		3.256					ND	
35 Hexane	57		3.381					ND	
39 1,1-Dichloroethane	63		3.578					ND	
36 Isopropyl ether	45		3.588					ND	
135 Halothane	117		3.619					ND	
40 2-Chloro-1,3-butadiene	53		3.629					ND	
37 Vinyl acetate	43		3.629					ND	
38 1,1-Dimethoxyethane	75		3.660					ND	
41 Tert-butyl ethyl ether	59		3.878					ND	
44 2,2-Dichloropropane	77		4.034					ND	
45 cis-1,2-Dichloroethene	96		4.065					ND	
43 2-Butanone (MEK)	43		4.085					ND	
42 Ethyl acetate	43		4.106					ND	
46 Propionitrile	54		4.179					ND	
48 Chlorobromomethane	128		4.262					ND	
47 Methacrylonitrile	41		4.272					ND	
49 Tetrahydrofuran	42		4.272					ND	
50 Chloroform	83		4.324					ND	
51 1,1,1-Trichloroethane	97		4.417					ND	
52 Cyclohexane	56		4.427					ND	
55 Carbon tetrachloride	117		4.531					ND	
54 1,1-Dichloropropene	75		4.541					ND	
152 Isooctane	57		4.697					ND	
57 Benzene	78		4.707					ND	
53 Isobutyl alcohol	43		4.718					ND	
56 Tert-amyl methyl ether	73		4.759					ND	U
147 t-Amyl alcohol	59		4.759					ND	
58 1,2-Dichloroethane	62		4.769					ND	
59 n-Heptane	43		4.842					ND	
1 1,4-Difluorobenzene	114		5.008					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.101					ND	
62 Trichloroethene	95		5.194					ND	
60 n-Butanol	56		5.205					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.287					ND	
142 Ethyl acrylate	55		5.287					ND	
64 Methylcyclohexane	83		5.298					ND	
65 1,2-Dichloropropane	63		5.391					ND	
63 Methyl methacrylate	41		5.453					ND	
66 1,4-Dioxane	88		5.495					ND	
67 Dibromomethane	93		5.505					ND	
68 Dichlorobromomethane	83		5.619					ND	
70 2-Nitropropane	43		5.806					ND	
69 2-Chloroethyl vinyl ether	63		5.826					ND	
71 Epichlorohydrin	57		5.899					ND	
72 cis-1,3-Dichloropropene	75		5.940					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.044					ND	
74 Toluene	92		6.158					ND	
76 2-Methylthiophene	97		6.272					ND	
77 trans-1,3-Dichloropropene	75		6.365					ND	
75 Ethyl methacrylate	69		6.386					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.396					ND	
79 1,1,2-Trichloroethane	83		6.521					ND	
81 Tetrachloroethene	166		6.573					ND	
82 1,3-Dichloropropane	76		6.645					ND	
80 2-Hexanone	43		6.676					ND	
155 n-Butyl acetate	43		6.749					ND	
83 Chlorodibromomethane	129		6.821					ND	
84 Ethylene Dibromide	107		6.904					ND	
146 1-Chlorohexane	55		7.205					ND	U
85 3-Chlorobenzotrifluoride	180		7.215					ND	
86 4-Chlorobenzotrifluoride	180		7.267					ND	
87 Chlorobenzene	112		7.267					ND	
88 Ethylbenzene	91		7.319					ND	
89 1,1,1,2-Tetrachloroethane	131		7.329					ND	
90 m-Xylene & p-Xylene	106		7.412					ND	
91 o-Xylene	106		7.733					ND	
92 Styrene	104		7.754					ND	
93 2-Chlorobenzotrifluoride	180		7.951					ND	
95 Bromoform	173		7.951					ND	
94 Isopropylbenzene	105		8.013					ND	
96 Cyclohexanone	55		8.158					ND	
101 Bromobenzene	156		8.303					ND	
97 1,1,2,2-Tetrachloroethane	83		8.324					ND	
99 N-Propylbenzene	91		8.345					ND	
98 trans-1,4-Dichloro-2-butene	53		8.355					ND	
100 1,2,3-Trichloropropane	110		8.355					ND	
103 2-Chlorotoluene	126		8.438					ND	
102 1,3,5-Trimethylbenzene	105		8.479					ND	
104 3-Chlorotoluene	126		8.490					ND	
105 4-Chlorotoluene	126		8.531					ND	
106 tert-Butylbenzene	134		8.749					ND	
107 1,2,4-Trimethylbenzene	105		8.790					ND	
108 Pentachloroethane	167		8.811					ND	
109 sec-Butylbenzene	105		8.925					ND	
110 4-Isopropyltoluene	119		9.039					ND	
111 1,3-Dichlorobenzene	146		9.060					ND	U
114 Dicyclopentadiene	66		9.111					ND	
113 1,4-Dichlorobenzene	146		9.132					ND	
112 1,2,3-Trimethylbenzene	105		9.142					ND	
150 Benzyl chloride	126		9.256					ND	
115 n-Butylbenzene	91		9.381					ND	
116 1,2-Dichlorobenzene	146		9.443					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.117					ND	
118 1,3,5-Trichlorobenzene	180		10.241					ND	
119 1,2,4-Trichlorobenzene	180	10.759	10.770	-0.011	1	1505		0.1056	
120 Hexachlorobutadiene	225		10.863					ND	
121 Naphthalene	128		10.977					ND	
122 1,2,3-Trichlorobenzene	180		11.163					ND	
149 2-Methylnaphthalene	142		11.837					ND	
145 Ethylene oxide TIC	1		0.000					ND	
137 Nitrobenzene	77		0.000					ND	
136 Hexachloroethane	117		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

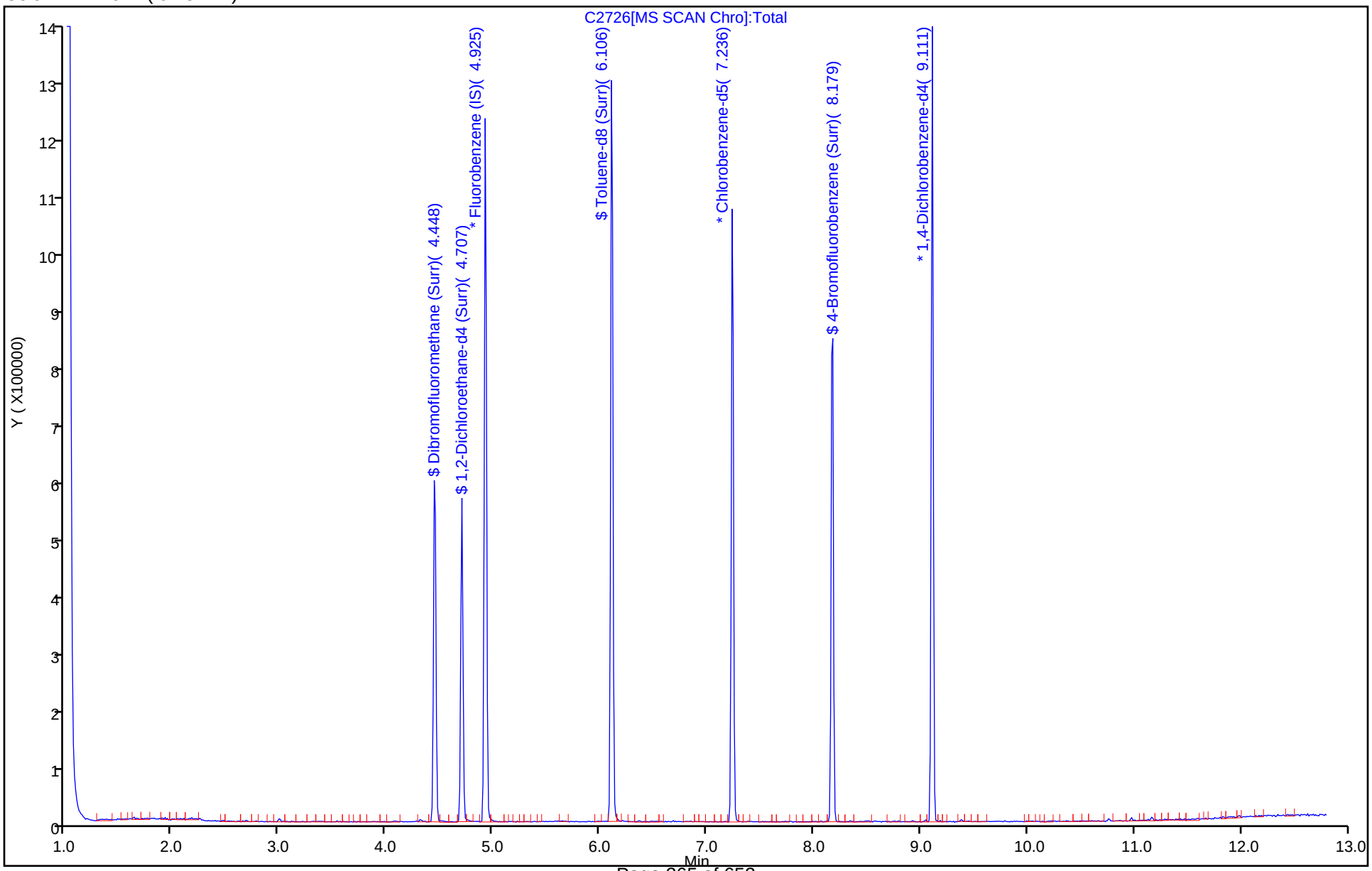
Report Date: 28-Nov-2020 14:18:29 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2726.D

Injection Date:	28-Nov-2020 13:49:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-561174/38

Matrix: Water Lab File ID: C2724.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 12:59

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	25.7		1.0	0.41
100-41-4	Ethylbenzene	25.3		1.0	0.74
108-88-3	Toluene	24.4		1.0	0.51
1330-20-7	Xylenes, Total	51.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	92		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2724.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Nov-2020 12:59:30 ALS Bottle#: 6 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2020 12:03:50 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: farrellr Date: 28-Nov-2020 14:17:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	166399	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	334105	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.111	9.111	0.000	94	368664	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	92	280274	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	97	141902	25.0	22.7	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	859458	25.0	22.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	281040	25.0	23.1	
10 Dichlorodifluoromethane	85	1.132	1.132	0.000	99	293857	25.0	29.6	
12 Chloromethane	50	1.298	1.298	0.000	99	252968	25.0	26.0	
13 Vinyl chloride	62	1.391	1.401	-0.010	98	266340	25.0	27.4	
151 Butadiene	54	1.401	1.412	-0.011	90	267009	25.0	29.8	
14 Bromomethane	94	1.681	1.681	0.000	92	228827	25.0	25.7	
15 Chloroethane	64	1.764	1.774	-0.010	99	175763	25.0	26.0	
17 Trichlorofluoromethane	101	1.992	2.002	-0.010	86	480879	25.0	29.9	
16 Dichlorofluoromethane	67	1.992	2.002	-0.010	94	446262	25.0	28.2	
18 Ethyl ether	59	2.292	2.293	-0.001	89	182520	25.0	23.5	
20 Acrolein	56	2.469	2.469	0.000	0	47653	125.0	93.7	M
22 1,1-Dichloroethene	96	2.500	2.500	0.000	98	228492	25.0	26.1	
21 112TCTFE	101	2.489	2.500	-0.011	92	264043	25.0	27.1	
23 Acetone	43	2.624	2.624	0.000	99	353615	125.0	82.1	
25 Iodomethane	142	2.655	2.655	0.000	99	455536	25.0	26.5	
26 Carbon disulfide	76	2.686	2.686	0.000	100	744416	25.0	26.0	
28 3-Chloro-1-propene	41	2.862	2.863	-0.001	86	292207	25.0	25.5	
27 Methyl acetate	43	2.904	2.904	0.000	97	285723	50.0	31.5	
30 Methylene Chloride	84	2.997	2.997	0.000	89	260126	25.0	27.0	
31 2-Methyl-2-propanol	59	3.163	3.163	0.000	99	285189	250.0	133.3	
32 Methyl tert-butyl ether	73	3.194	3.194	0.000	95	694857	25.0	24.5	
34 trans-1,2-Dichloroethene	96	3.204	3.205	-0.001	96	262669	25.0	26.6	
33 Acrylonitrile	53	3.256	3.256	0.000	98	751414	250.0	153.4	
35 Hexane	57	3.381	3.381	0.000	92	311411	25.0	26.1	
39 1,1-Dichloroethane	63	3.578	3.578	0.000	96	406015	25.0	26.0	
37 Vinyl acetate	43	3.629	3.629	0.000	97	772762	50.0	40.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
44 2,2-Dichloropropane	77	4.033	4.034	-0.001	89	340646	25.0	34.4	
45 cis-1,2-Dichloroethene	96	4.065	4.065	0.000	77	287832	25.0	25.9	
43 2-Butanone (MEK)	43	4.085	4.085	0.000	99	461583	125.0	74.6	
48 Chlorobromomethane	128	4.261	4.262	-0.001	85	155490	25.0	24.7	
49 Tetrahydrofuran	42	4.272	4.272	0.000	81	119655	50.0	24.9	
50 Chloroform	83	4.324	4.324	0.000	94	443614	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.417	4.417	0.000	98	376414	25.0	28.0	
52 Cyclohexane	56	4.417	4.427	-0.010	89	381420	25.0	27.9	
55 Carbon tetrachloride	117	4.531	4.531	0.000	96	329013	25.0	28.3	
54 1,1-Dichloropropene	75	4.541	4.541	0.000	95	330445	25.0	27.2	
57 Benzene	78	4.707	4.707	0.000	96	891448	25.0	25.7	
53 Isobutyl alcohol	43	4.707	4.718	-0.011	90	224455	625.0	338.5	
58 1,2-Dichloroethane	62	4.759	4.769	-0.010	98	315653	25.0	23.7	
59 n-Heptane	43	4.842	4.842	0.000	87	274166	25.0	24.2	
62 Trichloroethene	95	5.194	5.194	0.000	96	253471	25.0	25.5	
64 Methylcyclohexane	83	5.298	5.298	0.000	87	442350	25.0	28.3	
65 1,2-Dichloropropane	63	5.391	5.391	0.000	91	200040	25.0	25.2	
66 1,4-Dioxane	88	5.495	5.495	0.000	39	49398	500.0	272.2	
67 Dibromomethane	93	5.505	5.505	0.000	93	153430	25.0	23.1	
68 Dichlorobromomethane	83	5.619	5.619	0.000	98	288776	25.0	25.7	
69 2-Chloroethyl vinyl ether	63	5.826	5.826	0.000	94	106761	25.0	19.6	
72 cis-1,3-Dichloropropene	75	5.940	5.940	0.000	94	311193	25.0	25.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.044	6.044	0.000	96	958099	125.0	79.8	
74 Toluene	92	6.158	6.158	0.000	98	546928	25.0	24.4	
77 trans-1,3-Dichloropropene	75	6.365	6.365	0.000	94	268385	25.0	23.3	
75 Ethyl methacrylate	69	6.386	6.386	0.000	87	223802	25.0	20.1	
79 1,1,2-Trichloroethane	83	6.521	6.521	0.000	91	152163	25.0	21.7	
81 Tetrachloroethene	166	6.572	6.573	-0.001	97	271697	25.0	25.5	
82 1,3-Dichloropropane	76	6.645	6.645	0.000	90	301009	25.0	21.7	
80 2-Hexanone	43	6.676	6.676	0.000	96	625510	125.0	76.8	
83 Chlorodibromomethane	129	6.821	6.821	0.000	89	208604	25.0	22.8	
84 Ethylene Dibromide	107	6.904	6.904	0.000	97	196684	25.0	21.2	
87 Chlorobenzene	112	7.256	7.267	-0.011	96	650867	25.0	24.8	
88 Ethylbenzene	91	7.319	7.319	0.000	98	1047646	25.0	25.3	
89 1,1,1,2-Tetrachloroethane	131	7.329	7.329	0.000	94	243313	25.0	26.8	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	97	412573	25.0	25.6	
91 o-Xylene	106	7.733	7.733	0.000	97	418090	25.0	25.7	
92 Styrene	104	7.754	7.754	0.000	95	641347	25.0	26.4	
95 Bromoform	173	7.951	7.951	0.000	96	125709	25.0	19.9	
94 Isopropylbenzene	105	8.013	8.013	0.000	95	1136719	25.0	26.5	
101 Bromobenzene	156	8.303	8.303	0.000	89	282691	25.0	24.7	
97 1,1,2,2-Tetrachloroethane	83	8.324	8.324	0.000	97	265301	25.0	19.3	
99 N-Propylbenzene	91	8.344	8.345	-0.001	99	1302403	25.0	25.5	
98 trans-1,4-Dichloro-2-butene	53	8.355	8.355	0.000	67	26007	25.0	7.51	
100 1,2,3-Trichloropropane	110	8.355	8.355	0.000	88	82499	25.0	17.0	
103 2-Chlorotoluene	126	8.438	8.438	0.000	98	285339	25.0	26.1	
102 1,3,5-Trimethylbenzene	105	8.479	8.479	0.000	95	956447	25.0	26.6	
105 4-Chlorotoluene	126	8.531	8.531	0.000	97	277243	25.0	25.1	
106 tert-Butylbenzene	134	8.749	8.749	0.000	92	222527	25.0	27.7	
107 1,2,4-Trimethylbenzene	105	8.790	8.790	0.000	96	962641	25.0	26.3	
109 sec-Butylbenzene	105	8.925	8.925	0.000	94	1268033	25.0	27.7	
110 4-Isopropyltoluene	119	9.039	9.039	0.000	97	1122720	25.0	28.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	9.060	9.060	0.000	98	553506	25.0	24.8	
113 1,4-Dichlorobenzene	146	9.132	9.132	0.000	96	557554	25.0	24.3	
115 n-Butylbenzene	91	9.381	9.381	0.000	98	971141	25.0	26.4	
116 1,2-Dichlorobenzene	146	9.443	9.443	0.000	98	574979	25.0	24.9	
117 1,2-Dibromo-3-Chloropropane	75	10.117	10.117	0.000	87	42149	25.0	13.6	
119 1,2,4-Trichlorobenzene	180	10.769	10.770	-0.001	94	433079	25.0	24.3	
120 Hexachlorobutadiene	225	10.863	10.863	0.000	98	208929	25.0	26.5	
121 Naphthalene	128	10.977	10.977	0.000	96	1013896	25.0	18.6	
122 1,2,3-Trichlorobenzene	180	11.163	11.163	0.000	96	432599	25.0	24.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00198	Amount Added:	12.50	Units: uL	
GAS CORP mix_00429	Amount Added:	12.50	Units: uL	
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

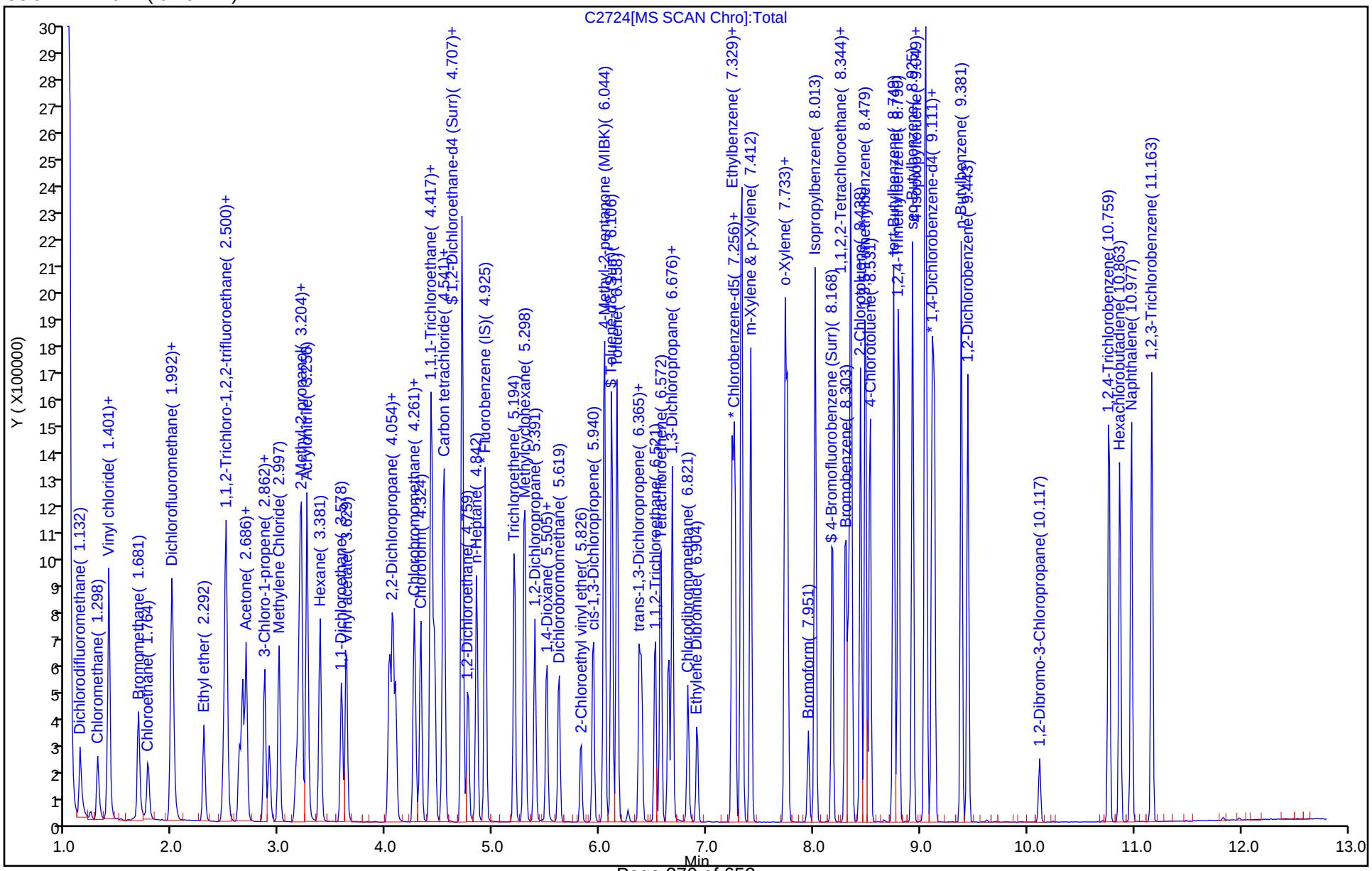
Report Date: 28-Nov-2020 14:17:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2724.D

Injection Date:	28-Nov-2020 12:59:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	LCS			Worklist Smp#:	38
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-D MS MS Lab Sample ID: 480-178688-3 MS

Matrix: Water Lab File ID: C2741.D

Analysis Method: 8260C Date Collected: 11/23/2020 14:15

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 20:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	26.4		1.0	0.41
100-41-4	Ethylbenzene	26.3		1.0	0.74
108-88-3	Toluene	25.8		1.0	0.51
1330-20-7	Xylenes, Total	53.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2741.D
Lims ID: 480-178688-D-3 MS
Client ID: MW-97-14-D MS
Sample Type: MS
Inject. Date: 28-Nov-2020 20:09:30 ALS Bottle#: 23 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-178688-d-3 ms
Misc. Info.: 480-0095298-044
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:53:26 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:53:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	166705	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	85	317726	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	355271	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.459	4.448	0.011	92	292799	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	99	161160	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	832823	25.0	23.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	96	267956	25.0	23.2	
57 Benzene	78	4.707	4.707	0.000	96	915971	25.0	26.4	
74 Toluene	92	6.158	6.158	0.000	98	550743	25.0	25.8	
88 Ethylbenzene	91	7.319	7.319	0.000	98	1033322	25.0	26.3	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	403250	25.0	26.3	
91 o-Xylene	106	7.733	7.733	0.000	97	422671	25.0	27.3	
S 124 Xylenes, Total	1				0			53.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00198	Amount Added: 12.50	Units: uL	
GAS CORP mix_00429	Amount Added: 12.50	Units: uL	
C_8260_Surr_00167	Amount Added: 2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added: 2.00	Units: uL	Run Reagent

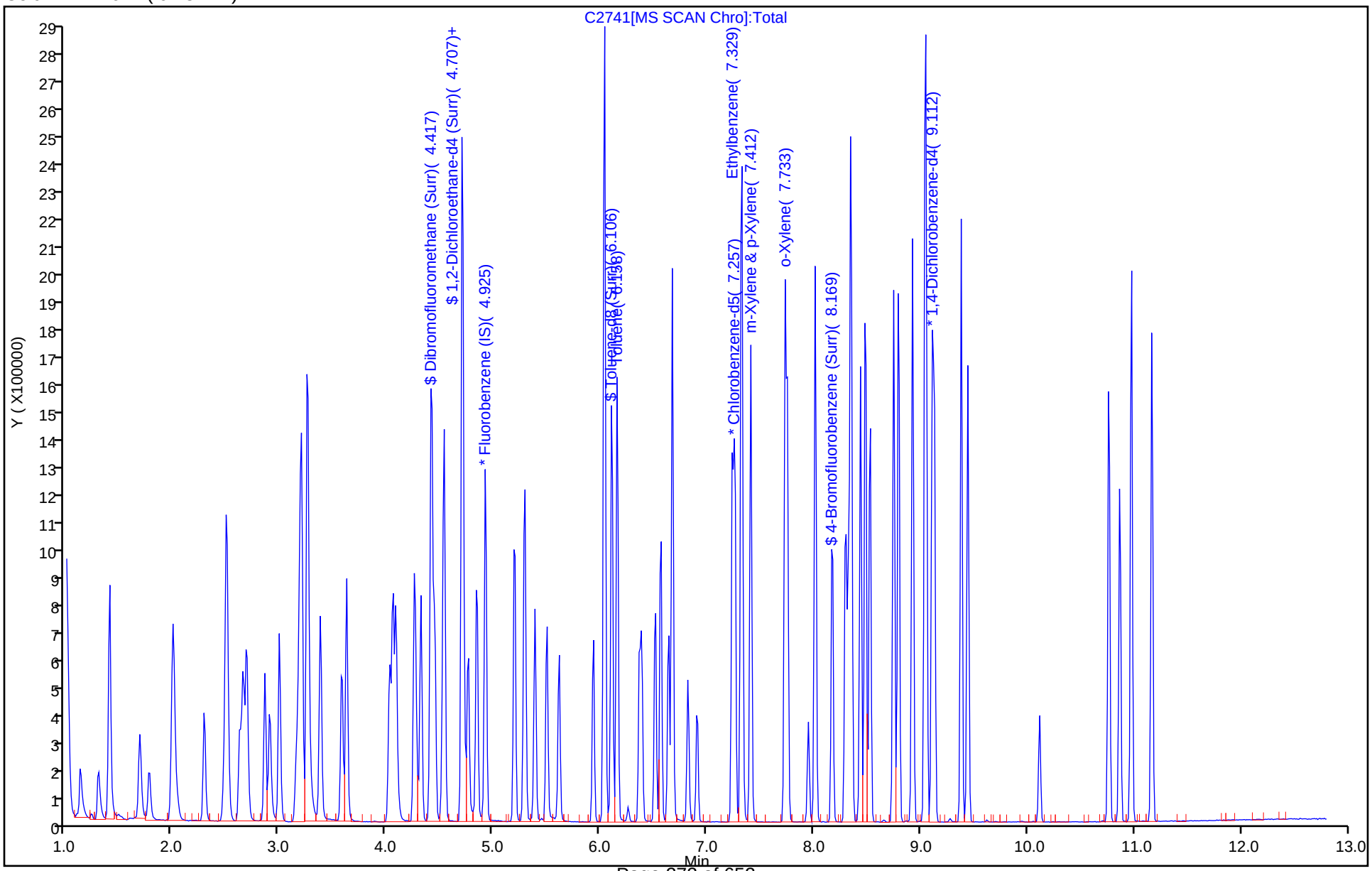
Report Date: 29-Nov-2020 08:53:59 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2741.D

Injection Date:	28-Nov-2020 20:09:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-D-3 MS			Worklist Smp#:	44
Client ID:	MW-97-14-D MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-D MSD MSD Lab Sample ID: 480-178688-3 MSD

Matrix: Water Lab File ID: C2742.D

Analysis Method: 8260C Date Collected: 11/23/2020 14:15

Sample wt/vol: 5(mL) Date Analyzed: 11/28/2020 20:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 561174 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	26.4		1.0	0.41
100-41-4	Ethylbenzene	26.7		1.0	0.74
108-88-3	Toluene	25.9		1.0	0.51
1330-20-7	Xylenes, Total	54.1		2.0	0.66

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

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2742.D
Lims ID: 480-178688-D-3 MSD
Client ID: MW-97-14-D MSD
Sample Type: MSD
Inject. Date: 28-Nov-2020 20:34:30 ALS Bottle#: 24 Worklist Smp#: 45
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-178688-d-3 msd
Misc. Info.: 480-0095298-045
Operator ID: RF Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Nov-2020 08:53:26 Calib Date: 18-Nov-2020 22:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20201118-95057.b\C2283.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: izquierdoo Date: 29-Nov-2020 08:54:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.925	4.925	0.000	99	167849	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.236	7.236	0.000	84	311079	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.112	9.111	0.001	94	350901	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.448	4.448	0.000	93	290510	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.707	4.707	0.000	97	150112	25.0	23.8	
$ 5 Toluene-d8 (Surr)	98	6.106	6.106	0.000	93	832468	25.0	23.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.179	8.179	0.000	97	268234	25.0	23.7	
57 Benzene	78	4.707	4.707	0.000	96	921521	25.0	26.4	
74 Toluene	92	6.158	6.158	0.000	98	542266	25.0	25.9	
88 Ethylbenzene	91	7.319	7.319	0.000	98	1028541	25.0	26.7	
90 m-Xylene & p-Xylene	106	7.412	7.412	0.000	96	394807	25.0	26.3	
91 o-Xylene	106	7.733	7.733	0.000	97	420170	25.0	27.8	
S 124 Xylenes, Total	1				0			54.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00198	Amount Added:	12.50	Units: uL	
GAS CORP mix_00429	Amount Added:	12.50	Units: uL	
C_8260_Surr_00167	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00150	Amount Added:	2.00	Units: uL	Run Reagent

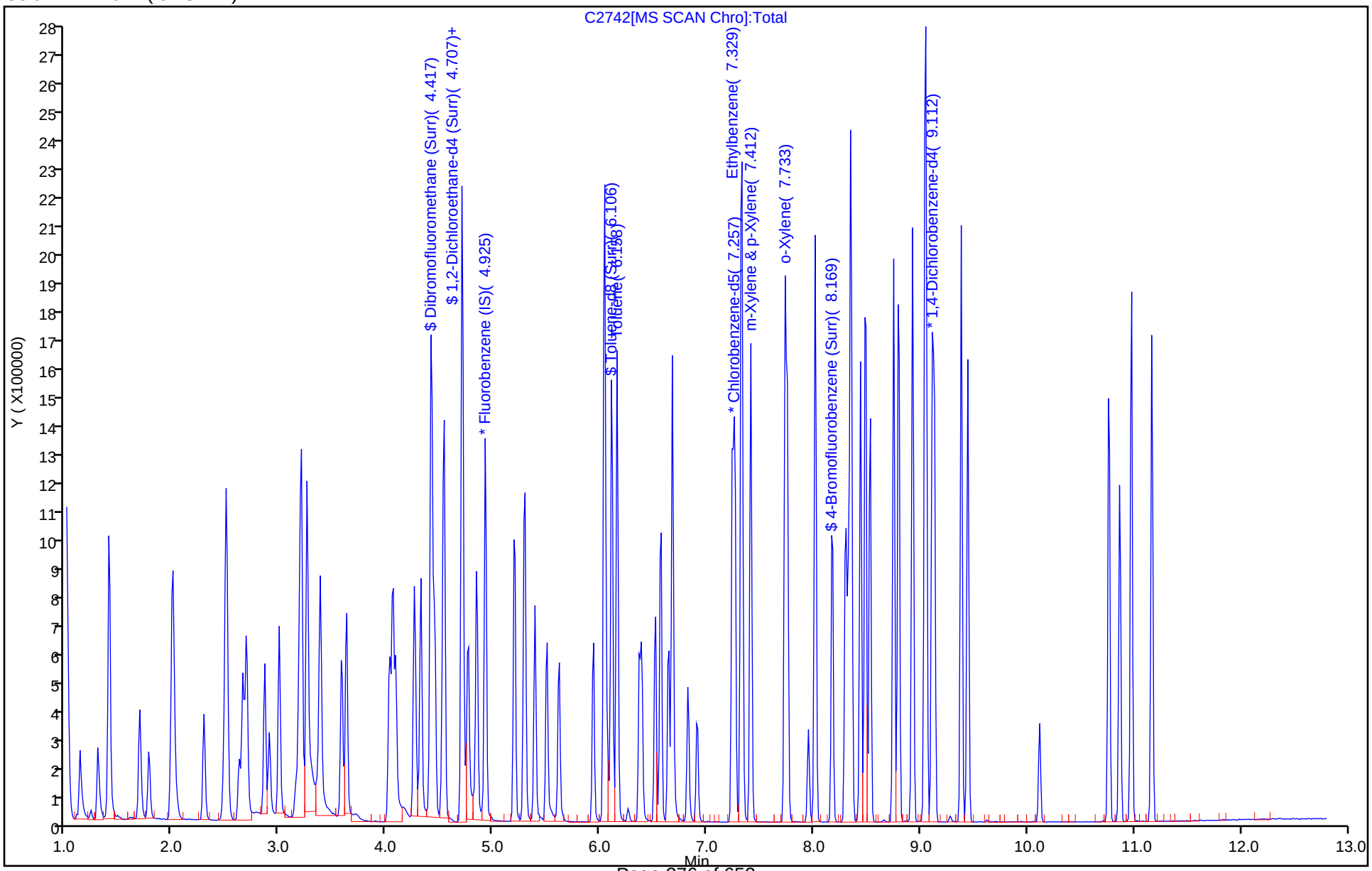
Report Date: 29-Nov-2020 08:54:07 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20201128-95298.b\C2742.D

Injection Date:	28-Nov-2020 20:34:30	Instrument ID:	HP5973C	Operator ID:	RF
Lims ID:	480-178688-D-3 MSD			Worklist Smp#:	45
Client ID:	MW-97-14-D MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: HP5973C Start Date: 11/18/2020 14:24

Analysis Batch Number: 559712 End Date: 11/19/2020 00:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-559712/11		11/18/2020 14:24	1	C2263.D	ZB-624 (20) 0.18(mm)
IC 480-559712/13		11/18/2020 15:16	1	C2265.D	ZB-624 (20) 0.18(mm)
IC 480-559712/14		11/18/2020 15:42	1	C2266.D	ZB-624 (20) 0.18(mm)
IC 480-559712/15		11/18/2020 16:07	1	C2267.D	ZB-624 (20) 0.18(mm)
IC 480-559712/16		11/18/2020 16:32	1	C2268.D	ZB-624 (20) 0.18(mm)
IC 480-559712/17		11/18/2020 16:57	1	C2269.D	ZB-624 (20) 0.18(mm)
ICIS 480-559712/18		11/18/2020 17:22	1	C2270.D	ZB-624 (20) 0.18(mm)
IC 480-559712/19		11/18/2020 17:47	1	C2271.D	ZB-624 (20) 0.18(mm)
IC 480-559712/20		11/18/2020 18:12	1	C2272.D	ZB-624 (20) 0.18(mm)
MDLV 480-559712/22		11/18/2020 19:02	1		ZB-624 (20) 0.18(mm)
MDLV 480-559712/23		11/18/2020 19:26	1		ZB-624 (20) 0.18(mm)
IC 480-559712/25		11/18/2020 20:16	1		ZB-624 (20) 0.18(mm)
IC 480-559712/26		11/18/2020 20:41	1		ZB-624 (20) 0.18(mm)
IC 480-559712/27		11/18/2020 21:05	1		ZB-624 (20) 0.18(mm)
IC 480-559712/28		11/18/2020 21:30	1		ZB-624 (20) 0.18(mm)
IC 480-559712/29		11/18/2020 21:55	1		ZB-624 (20) 0.18(mm)
IC 480-559712/30		11/18/2020 22:19	1		ZB-624 (20) 0.18(mm)
IC 480-559712/31		11/18/2020 22:44	1		ZB-624 (20) 0.18(mm)
MDLV 480-559712/33		11/18/2020 23:33	1		ZB-624 (20) 0.18(mm)
ICV 480-559712/34		11/18/2020 23:57	1		ZB-624 (20) 0.18(mm)
ICV 480-559712/35		11/19/2020 00:22	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: HP5973C Start Date: 11/28/2020 11:01

Analysis Batch Number: 561174 End Date: 11/28/2020 20:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-561174/2		11/28/2020 11:01	1	C2720.D	ZB-624 (20) 0.18(mm)
CCVIS 480-561174/3		11/28/2020 11:27	1	C2721.D	ZB-624 (20) 0.18(mm)
CCV 480-561174/4		11/28/2020 11:52	1		ZB-624 (20) 0.18(mm)
LCS 480-561174/38		11/28/2020 12:59	1	C2724.D	ZB-624 (20) 0.18(mm)
MB 480-561174/7		11/28/2020 13:49	1	C2726.D	ZB-624 (20) 0.18(mm)
ZZZZZ		11/28/2020 14:23	1		ZB-624 (20) 0.18(mm)
ZZZZZ		11/28/2020 14:48	1		ZB-624 (20) 0.18(mm)
480-178688-1	PZ93-1	11/28/2020 15:12	20	C2729.D	ZB-624 (20) 0.18(mm)
480-178688-2	MW93-05D	11/28/2020 15:37	1	C2730.D	ZB-624 (20) 0.18(mm)
480-178688-3	MW-97-14-D	11/28/2020 16:02	1	C2731.D	ZB-624 (20) 0.18(mm)
480-178688-4	MW-97-14-S	11/28/2020 16:27	1	C2732.D	ZB-624 (20) 0.18(mm)
480-178688-5	MW-01-17-D	11/28/2020 16:51	1	C2733.D	ZB-624 (20) 0.18(mm)
480-178688-6	DUP112320	11/28/2020 17:16	1	C2734.D	ZB-624 (20) 0.18(mm)
480-178688-7	EB112420	11/28/2020 17:41	1	C2735.D	ZB-624 (20) 0.18(mm)
480-178688-8	NMW-01	11/28/2020 18:06	4	C2736.D	ZB-624 (20) 0.18(mm)
480-178688-9	MW-01-07-R	11/28/2020 18:30	1	C2737.D	ZB-624 (20) 0.18(mm)
480-178688-10	TRIP BLANK	11/28/2020 18:55	1	C2738.D	ZB-624 (20) 0.18(mm)
ZZZZZ		11/28/2020 19:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ		11/28/2020 19:45	1		ZB-624 (20) 0.18(mm)
480-178688-3 MS	MW-97-14-D MS MS	11/28/2020 20:09	1	C2741.D	ZB-624 (20) 0.18(mm)
480-178688-3 MSD	MW-97-14-D MSD MSD	11/28/2020 20:34	1	C2742.D	ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 559712 Batch Start Date: 11/18/20 14:24 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00198	BFB_WRK 00113	C_8260_IS 00150	C_8260_Surr 00167
BFB 480-559712/11		8260C		1 uL	1 uL		1 uL		
IC 480-559712/13		8260C		5 mL	5 mL	0.4 uL		2 uL	2 uL
IC 480-559712/14		8260C		5 mL	5 mL	1 uL		2 uL	2 uL
IC 480-559712/15		8260C		5 mL	5 mL	2 uL		2 uL	2 uL
IC 480-559712/16		8260C		5 mL	5 mL	5 uL		2 uL	2 uL
IC 480-559712/17		8260C		5 mL	5 mL	5 uL		2 uL	2 uL
ICIS 480-559712/18		8260C		5 mL	5 mL	12.5 uL		2 uL	2 uL
IC 480-559712/19		8260C		5 mL	5 mL	25 uL		2 uL	2 uL
IC 480-559712/20		8260C		5 mL	5 mL	50 uL		2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00427					
BFB 480-559712/11		8260C							
IC 480-559712/13		8260C		0.4 uL					
IC 480-559712/14		8260C		1 uL					
IC 480-559712/15		8260C		2 uL					
IC 480-559712/16		8260C		5 uL					
IC 480-559712/17		8260C		5 uL					
ICIS 480-559712/18		8260C		12.5 uL					
IC 480-559712/19		8260C		25 uL					
IC 480-559712/20		8260C		50 uL					

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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 559712 Batch Start Date: 11/18/20 14:24 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 561174 Batch Start Date: 11/28/20 11:01 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 00198	BFB_WRK 00113	C_8260_IS 00150
BFB 480-561174/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-561174/3		8260C		5 mL	5 mL		12.5 uL		2 uL
MB 480-561174/7		8260C		5 mL	5 mL				2 uL
LCS 480-561174/38		8260C		5 mL	5 mL		12.5 uL		2 uL
480-178688-E-1	PZ93-1	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-2	MW93-05D	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-3	MW-97-14 -D	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-D-3 MS	MW-97-14-D MS	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		2 uL
480-178688-D-3 MSD	MW-97-14-D MSD	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		2 uL
480-178688-E-4	MW-97-14-S	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-5	MW-01-17-D	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-6	DUP112320	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-7	EB112420	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-8	MW97-7	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-E-9	PZ-03-01-D	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-178688-A-10	TRIP BLANK	8260C	T	5 mL	5 mL	<2 SU			2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00167	GAS CORP mix 00429				
BFB 480-561174/2		8260C							
CCVIS 480-561174/3		8260C		2 uL	12.5 uL				
MB 480-561174/7		8260C		2 uL					
LCS 480-561174/38		8260C		2 uL	12.5 uL				
480-178688-E-1	PZ93-1	8260C	T	2 uL					
480-178688-E-2	MW93-05D	8260C	T	2 uL					
480-178688-E-3	MW-97-14 -D	8260C	T	2 uL					

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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 561174 Batch Start Date: 11/28/20 11:01 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00167	GAS CORP mix 00429				
480-178688-D-3 MS	MW-97-14-D MS	8260C	T	2 uL	12.5 uL				
480-178688-D-3 MSD	MW-97-14-D MSD	8260C	T	2 uL	12.5 uL				
480-178688-E-4	MW-97-14-S	8260C	T	2 uL					
480-178688-E-5	MW-01-17-D	8260C	T	2 uL					
480-178688-E-6	DUP112320	8260C	T	2 uL					
480-178688-E-7	EB112420	8260C	T	2 uL					
480-178688-E-8	MW97-7	8260C	T	2 uL					
480-178688-E-9	PZ-03-01-D	8260C	T	2 uL					
480-178688-A-10	TRIP BLANK	8260C	T	2 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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

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 #
PZ93-1	480-178688-1	75	89	83
PZ93-1 DL	480-178688-1 DL	118	88	79
MW93-05D	480-178688-2	104	111	107
MW-97-14-D	480-178688-3	97	99	102
MW-97-14-S	480-178688-4	93	100	90
MW-01-17-D	480-178688-5	88	92	88
DUP112320	480-178688-6	96	101	93
EB112420	480-178688-7	100	101	112
NMW-01	480-178688-8	74	81	70
MW-01-07-R	480-178688-9	79	83	95
	MB 480-561284/1-A	89	92	114
	LCS 480-561284/2-A	75	78	91
MW-97-14-D MS MS	480-178688-3 MS	81	87	81
MW-97-14-D MSD MSD	480-178688-3 MSD	90	94	92

	QC LIMITS
NBZ = Nitrobenzene-d5 (Surr)	46-120
FBP = 2-Fluorobiphenyl	48-120
TPHd14 = p-Terphenyl-d14 (Surr)	60-148

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W10011411.d

Lab ID: LCS 480-561284/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	32.0	26.3	82	60-120	
Acenaphthylene	32.0	25.8	81	63-120	
Anthracene	32.0	27.2	85	67-120	
Benzo[a]anthracene	32.0	28.2	88	70-121	
Benzo[a]pyrene	32.0	29.6	93	60-123	
Benzo[b]fluoranthene	32.0	32.1	100	66-126	
Benzo[g,h,i]perylene	32.0	31.9	100	66-150	
Benzo[k]fluoranthene	32.0	31.7	99	65-124	
Chrysene	32.0	28.0	88	69-120	
Dibenz(a,h)anthracene	32.0	31.1	97	65-135	
Fluoranthene	32.0	27.7	87	69-126	
Fluorene	32.0	27.6	86	66-120	
Indeno[1,2,3-cd]pyrene	32.0	30.7	96	69-146	
Naphthalene	32.0	23.7	74	57-120	
Phenanthrene	32.0	26.9	84	68-120	
Pyrene	32.0	29.4	92	70-125	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W10011412.d

Lab ID: 480-178688-3 MS Client ID: MW-97-14-D MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	32.0	ND	28.0	87	48-120	
Acenaphthylene	32.0	ND	28.2	88	63-120	
Anthracene	32.0	ND	28.8	90	65-122	
Benzo[a]anthracene	32.0	ND	27.0	85	43-124	
Benzo[a]pyrene	32.0	ND	28.8	90	23-125	
Benzo[b]fluoranthene	32.0	ND	30.2	94	27-127	
Benzo[g,h,i]perylene	32.0	ND	29.2	91	16-147	
Benzo[k]fluoranthene	32.0	ND	29.4	92	20-124	
Chrysene	32.0	ND	26.6	83	44-122	
Dibenz(a,h)anthracene	32.0	ND	27.6	86	16-139	
Fluoranthene	32.0	ND	29.2	91	63-129	
Fluorene	32.0	ND	29.9	93	62-120	
Indeno[1,2,3-cd]pyrene	32.0	ND	27.8	87	16-140	
Naphthalene	32.0	ND	25.2	79	45-120	
Phenanthrene	32.0	ND	29.0	91	65-122	
Pyrene	32.0	ND	30.2	94	58-128	

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W10011413.d

Lab ID: 480-178688-3 MSD Client ID: MW-97-14-D MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	33.3	31.9	96	13	24	48-120	
Acenaphthylene	33.3	31.6	95	11	18	63-120	
Anthracene	33.3	32.7	98	13	15	65-122	
Benzo[a]anthracene	33.3	32.0	96	17	15	43-124	F2
Benzo[a]pyrene	33.3	34.3	103	17	15	23-125	F2
Benzo[b]fluoranthene	33.3	35.9	108	17	15	27-127	F2
Benzo[g,h,i]perylene	33.3	35.2	106	19	15	16-147	F2
Benzo[k]fluoranthene	33.3	36.2	109	21	22	20-124	
Chrysene	33.3	31.5	94	17	15	44-122	F2
Dibenz(a,h)anthracene	33.3	33.9	102	20	15	16-139	F2
Fluoranthene	33.3	33.1	99	12	15	63-129	
Fluorene	33.3	33.3	100	11	15	62-120	
Indeno[1,2,3-cd]pyrene	33.3	33.8	101	20	15	16-140	F2
Naphthalene	33.3	29.3	88	15	29	45-120	
Phenanthrene	33.3	32.5	97	11	15	65-122	
Pyrene	33.3	35.1	105	15	19	58-128	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: W10011410.d Lab Sample ID: MB 480-561284/1-A

Matrix: Water Date Extracted: 11/30/2020 09:11

Instrument ID: HP5973W Date Analyzed: 12/01/2020 18:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-561284/2-A	W10011411.d	12/01/2020 18:48
MW-97-14-D MS MS	480-178688-3 MS	W10011412.d	12/01/2020 19:17
MW-97-14-D MSD MSD	480-178688-3 MSD	W10011413.d	12/01/2020 19:45
MW-97-14-D	480-178688-3	W10011414.d	12/01/2020 20:14
PZ93-1	480-178688-1	W10011421.d	12/01/2020 23:34
MW93-05D	480-178688-2	W10011422.d	12/02/2020 00:03
MW-97-14-S	480-178688-4	W10011423.d	12/02/2020 00:33
MW-01-17-D	480-178688-5	W10011424.d	12/02/2020 01:01
DUP112320	480-178688-6	W10011425.d	12/02/2020 01:30
EB112420	480-178688-7	W10011426.d	12/02/2020 01:58
NMW-01	480-178688-8	W10011427.d	12/02/2020 02:27
MW-01-07-R	480-178688-9	W10011428.d	12/02/2020 02:55
PZ93-1 DL	480-178688-1 DL	W10011505.d	12/03/2020 23:39

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: W10011249.d DFTPP Injection Date: 11/24/2020

Instrument ID: HP5973W DFTPP Injection Time: 14:46

Analysis Batch No.: 560743

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	36.7	
68	Less than 2% of mass 69	0.1	(0.4) 1
69	Mass 69 Relative abundance	31.8	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	45.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	28.8	
365	Greater than 1% of mass 198	5.0	
441	present but less than 24% of mass 442	12.7	(15.9) 2
442	Greater than 50% of mass 198	80.1	
443	15-24% of mass 442	15.7	(19.5) 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 480-560743/3	W10011250.d	11/24/2020	15:28
	IC 480-560743/4	W10011251.d	11/24/2020	15:56
	IC 480-560743/5	W10011252.d	11/24/2020	16:24
	IC 480-560743/6	W10011253.d	11/24/2020	16:53
	ICIS 480-560743/7	W10011254.d	11/24/2020	17:22
	IC 480-560743/8	W10011255.d	11/24/2020	17:50
	IC 480-560743/9	W10011256.d	11/24/2020	18:18
	IC 480-560743/10	W10011257.d	11/24/2020	18:47
	ICV 480-560743/11	W10011258.d	11/24/2020	19:15

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: W10011406.d DFTPP Injection Date: 12/01/2020

Instrument ID: HP5973W DFTPP Injection Time: 16:25

Analysis Batch No.: 561494

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	38.2	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	31.6	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	48.3	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	26.3	
365	Greater than 1% of mass 198	3.8	
441	present but less than 24% of mass 442	9.0	(15.5) 2
442	Greater than 50% of mass 198	58.3	
443	15-24% of mass 442	11.8	(20.2) 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 480-561494/3	W10011407.d	12/01/2020	16:53
	MB 480-561284/1-A	W10011410.d	12/01/2020	18:20
	LCS 480-561284/2-A	W10011411.d	12/01/2020	18:48
MW-97-14-D MS MS	480-178688-3 MS	W10011412.d	12/01/2020	19:17
MW-97-14-D MSD MSD	480-178688-3 MSD	W10011413.d	12/01/2020	19:45
MW-97-14-D	480-178688-3	W10011414.d	12/01/2020	20:14
PZ93-1	480-178688-1	W10011421.d	12/01/2020	23:34
MW93-05D	480-178688-2	W10011422.d	12/02/2020	0:03
MW-97-14-S	480-178688-4	W10011423.d	12/02/2020	0:33
MW-01-17-D	480-178688-5	W10011424.d	12/02/2020	1:01
DUP112320	480-178688-6	W10011425.d	12/02/2020	1:30
EB112420	480-178688-7	W10011426.d	12/02/2020	1:58
NMW-01	480-178688-8	W10011427.d	12/02/2020	2:27
MW-01-07-R	480-178688-9	W10011428.d	12/02/2020	2:55

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab File ID: W10011487.d DFTPP Injection Date: 12/03/2020

Instrument ID: HP5973W DFTPP Injection Time: 15:05

Analysis Batch No.: 561842

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	37.8	
68	Less than 2% of mass 69	0.1	(0.4) 1
69	Mass 69 Relative abundance	31.9	
70	Less than 2% of mass 69	0.2	(0.8) 1
127	10-80% of Base Peak	48.9	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	26.3	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	8.6	(16.9) 2
442	Greater than 50% of mass 198	50.7	
443	15-24% of mass 442	9.9	(19.6) 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 480-561842/3	W10011488.d	12/03/2020	15:34
PZ93-1 DL	480-178688-1 DL	W10011505.d	12/03/2020	23:39

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: ICIS 480-560743/7 Date Analyzed: 11/24/2020 17:22

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W10011254.d Heated Purge: (Y/N) N

Calibration ID: 40698

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		310325	6.22	1123441	7.31	582841	8.78
UPPER LIMIT		620650	6.72	2246882	7.81	1165682	9.28
LOWER LIMIT		155163	5.72	561721	6.81	291421	8.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-560743/11		248595	6.22	899662	7.31	517545	8.78
CCVIS 480-561494/3		273218	6.22	1007751	7.30	574123	8.77
CCVIS 480-561842/3		268195	6.19	980965	7.28	556326	8.75

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: ICIS 480-560743/7 Date Analyzed: 11/24/2020 17:22

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W10011254.d Heated Purge: (Y/N) N

Calibration ID: 40698

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		963909	10.02	861119	12.55	813193	14.62
UPPER LIMIT		1927818	10.52	1722238	13.05	1626386	15.12
LOWER LIMIT		481955	9.52	430560	12.05	406597	14.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-560743/11		879113	10.02	820339	12.56	926589	14.62
CCVIS 480-561494/3		1003155	10.01	918427	12.54	865430	14.60
CCVIS 480-561842/3		994053	10.00	881158	12.51	839798	14.56

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: CCVIS 480-561494/3 Date Analyzed: 12/01/2020 16:53

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W10011407.d Heated Purge: (Y/N) N

Calibration ID: 40698

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		273218	6.22	1007751	7.30	574123	8.77
UPPER LIMIT		546436	6.72	2015502	7.80	1148246	9.27
LOWER LIMIT		136609	5.72	503876	6.80	287062	8.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-561284/1-A		256138	6.22	912139	7.30	521508	8.77
LCS 480-561284/2-A		269749	6.22	976370	7.30	557031	8.77
480-178688-3 MS	MW-97-14-D MS MS	278226	6.22	1006102	7.30	564378	8.77
480-178688-3 MSD	MW-97-14-D MSD MSD	279456	6.22	994966	7.29	560103	8.77
480-178688-3	MW-97-14-D	264571	6.22	908887	7.29	520542	8.77
480-178688-1	PZ93-1	267032	6.22	1072147	7.30	557221	8.77
480-178688-2	MW93-05D	252660	6.22	881901	7.29	498500	8.77
480-178688-4	MW-97-14-S	261805	6.22	915196	7.29	513668	8.77
480-178688-5	MW-01-17-D	249279	6.22	884985	7.29	495760	8.77
480-178688-6	DUP112320	247152	6.21	857675	7.29	483152	8.77
480-178688-7	EB112420	246816	6.21	876403	7.29	506198	8.77
480-178688-8	NMW-01	256995	6.21	918731	7.29	526406	8.77
480-178688-9	MW-01-07-R	250068	6.22	894950	7.29	507825	8.77

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: CCVIS 480-561494/3 Date Analyzed: 12/01/2020 16:53

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W10011407.d Heated Purge: (Y/N) N

Calibration ID: 40698

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1003155	10.01	918427	12.54	865430	14.60
UPPER LIMIT		2006310	10.51	1836854	13.04	1730860	15.10
LOWER LIMIT		501578	9.51	459214	12.04	432715	14.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-561284/1-A		912600	10.01	784851	12.53	738172	14.60
LCS 480-561284/2-A		969849	10.01	858898	12.54	810439	14.60
480-178688-3 MS	MW-97-14-D MS MS	984309	10.01	900152	12.54	829409	14.60
480-178688-3 MSD	MW-97-14-D MSD MSD	985363	10.01	883392	12.54	813400	14.60
480-178688-3	MW-97-14-D	903685	10.01	776752	12.53	752351	14.59
480-178688-1	PZ93-1	988678	10.01	799430	12.53	803510	14.60
480-178688-2	MW93-05D	872210	10.01	771507	12.53	729855	14.60
480-178688-4	MW-97-14-S	909156	10.01	784695	12.54	756401	14.59
480-178688-5	MW-01-17-D	870886	10.01	739502	12.53	718363	14.59
480-178688-6	DUP112320	850272	10.01	747963	12.54	709843	14.60
480-178688-7	EB112420	872636	10.01	733700	12.54	718294	14.59
480-178688-8	NMW-01	926368	10.01	799169	12.54	788275	14.60
480-178688-9	MW-01-07-R	889777	10.01	753976	12.53	731592	14.59

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: CCVIS 480-561842/3 Date Analyzed: 12/03/2020 15:34

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W10011488.d Heated Purge: (Y/N) N

Calibration ID: 40698

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		268195	6.19	980965	7.28	556326	8.75
UPPER LIMIT		536390	6.69	1961930	7.78	1112652	9.25
LOWER LIMIT		134098	5.69	490483	6.78	278163	8.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-178688-1 DL	PZ93-1 DL	262817	6.19	968964	7.28	537771	8.75

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Sample No.: CCVIS 480-561842/3 Date Analyzed: 12/03/2020 15:34

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W10011488.d Heated Purge: (Y/N) N

Calibration ID: 40698

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		994053	10.00	881158	12.51	839798	14.56
UPPER LIMIT		1988106	10.50	1762316	13.01	1679596	15.06
LOWER LIMIT		497027	9.50	440579	12.01	419899	14.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-178688-1 DL	PZ93-1 DL	940912	10.00	810135	12.51	801928	14.56

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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: PZ93-1 Lab Sample ID: 480-178688-1

Matrix: Water Lab File ID: W10011421.d

Analysis Method: 8270D Date Collected: 11/23/2020 12:36

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/01/2020 23:34

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561494 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	220		25	2.1
208-96-8	Acenaphthylene	2.3	J	25	1.9
120-12-7	Anthracene	4.2	J	25	1.4
56-55-3	Benzo[a]anthracene	ND		25	1.8
50-32-8	Benzo[a]pyrene	ND		25	2.4
205-99-2	Benzo[b]fluoranthene	ND		25	1.7
191-24-2	Benzo[g,h,i]perylene	ND		25	1.8
207-08-9	Benzo[k]fluoranthene	ND		25	3.7
218-01-9	Chrysene	ND		25	1.7
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
206-44-0	Fluoranthene	5.7	J	25	2.0
86-73-7	Fluorene	84		25	1.8
193-39-5	Indeno[1,2,3-cd]pyrene	ND		25	2.4
91-20-3	*Naphthalene*	*1100*	*E*	*25*	*3.8*
85-01-8	Phenanthrene	62		25	2.2
129-00-0	Pyrene	10	J	25	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	89		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	75		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	83		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d
Lims ID: 480-178688-A-1-A
Client ID: PZ93-1
Sample Type: Client
Inject. Date: 01-Dec-2020 23:34:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0095356-017
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:57:56 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:57:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.215	6.215	0.000	93	267032	4.00	
* 2 Naphthalene-d8	136	7.304	7.299	0.005	98	1072147	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	557221	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	988678	4.00	
* 5 Chrysene-d12	240	12.534	12.540	-0.006	99	799430	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	803510	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	88	100374	1.20	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.006	99	275508	1.42	
$ 12 p-Terphenyl-d14	244	11.343	11.333	0.005	98	279206	1.33	
76 Naphthalene	128	7.331	7.310	0.016	97	15018833	54.1	E
107 Acenaphthylene	152	8.651	8.656	-0.005	96	26634	0.1134	
109 Acenaphthene	153	8.795	8.795	0.000	95	1761964	10.8	
123 Fluorene	166	9.222	9.228	-0.006	95	758876	4.20	
149 Phenanthrene	178	10.034	10.034	0.000	97	852602	3.12	
150 Anthracene	178	10.077	10.077	0.000	95	58286	0.2124	
161 Fluoranthene	202	11.049	11.033	0.016	97	82435	0.2854	
165 Pyrene	202	11.247	11.237	0.005	98	123821	0.4985	
179 Benzo[a]anthracene	228		12.524				ND	Ua
181 Chrysene	228	12.566	12.567	-0.006	94	8920	0.0362	
186 Benzo[b]fluoranthene	252	14.030	14.009	0.016	81	9268	0.0604	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252	14.511	14.506	0.000	59	8254	0.0616	
193 Indeno[1,2,3-cd]pyrene	276	16.242	16.236	0.000	57	5192	0.0459	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276	16.691	16.691	0.005	74	6677	0.0398	M

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

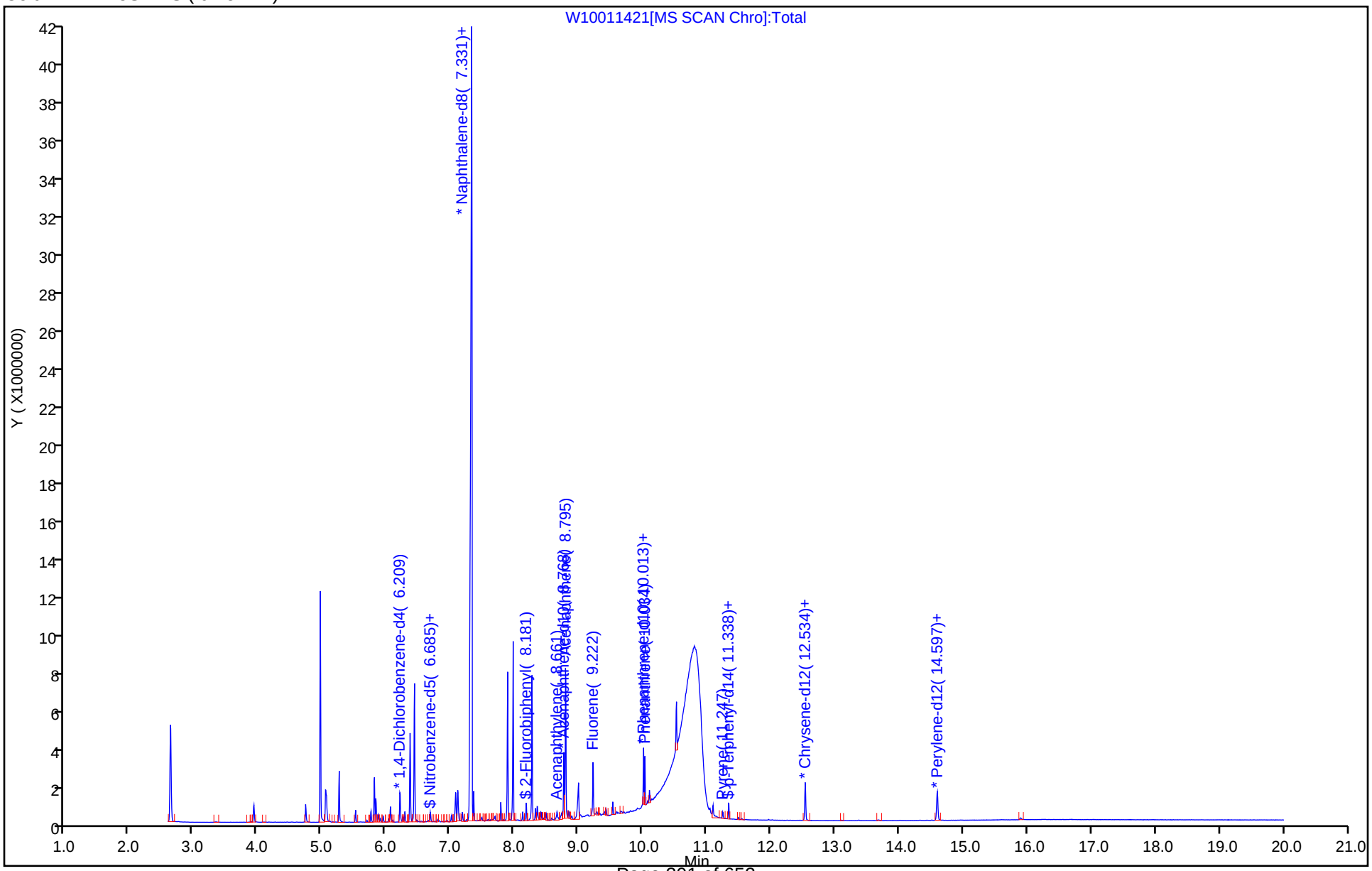
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1	Worklist Smp#:	17
Client ID:	PZ93-1				
Injection Vol:	2.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	17
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date: 01-Dec-2020 23:34:30 Instrument ID: HP5973W

Lims ID: 480-178688-A-1-A Lab Sample ID: 480-178688-1

Client ID: PZ93-1

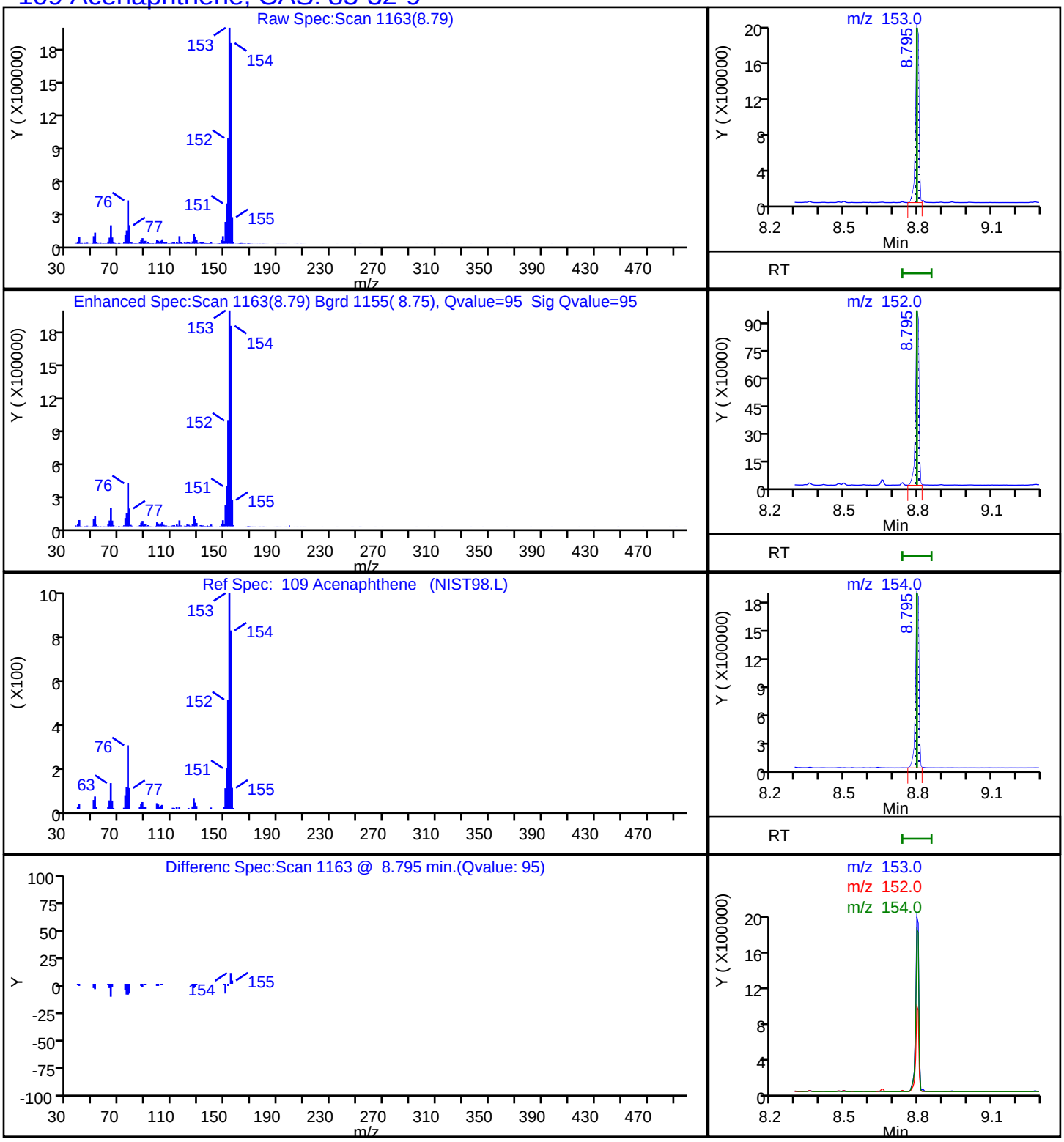
Operator ID: PJQ ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul Dil. Factor: 5.0000

Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

109 Acenaphthene, CAS: 83-32-9



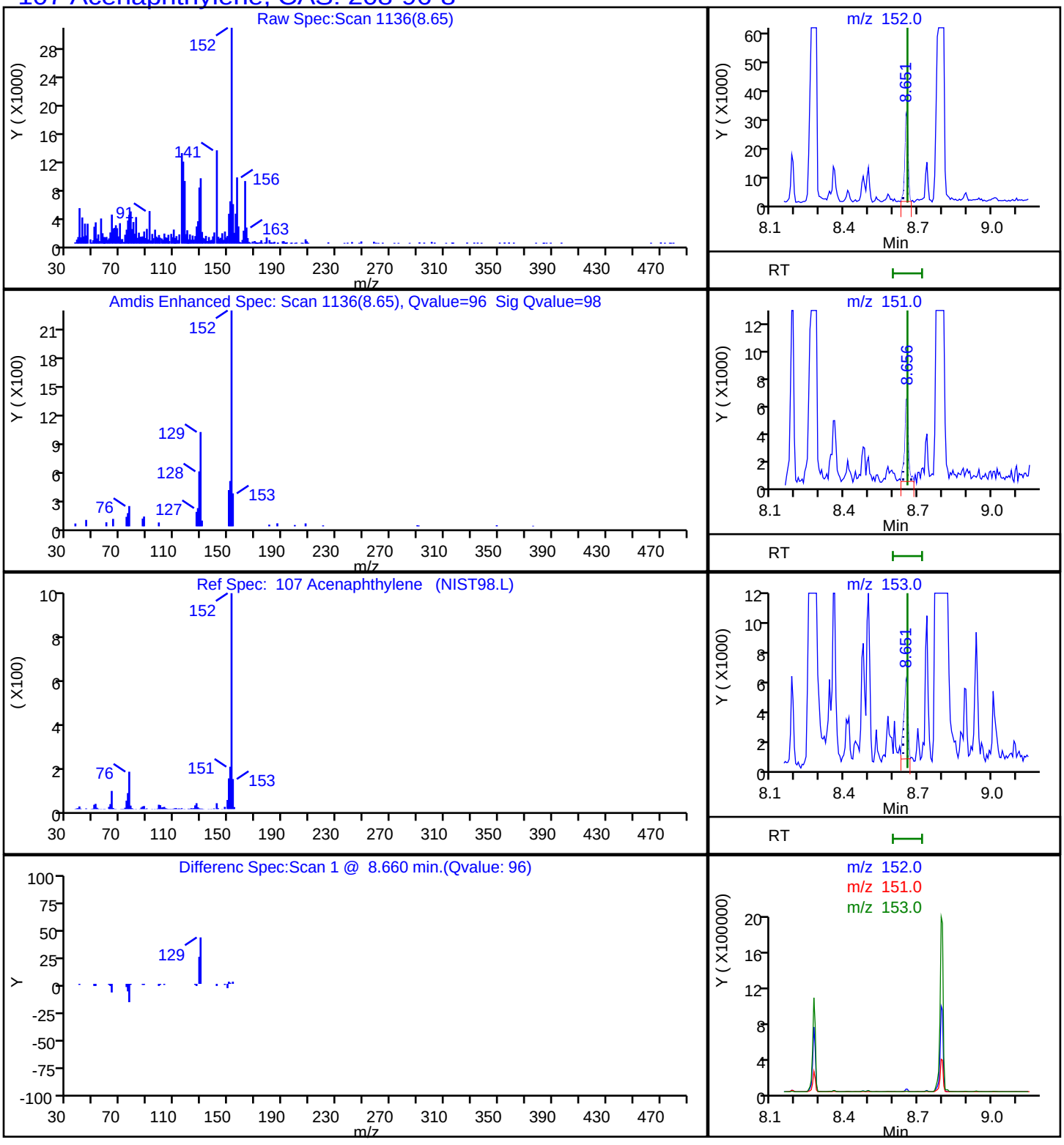
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

107 Acenaphthylene, CAS: 208-96-8



Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date: 01-Dec-2020 23:34:30 Instrument ID: HP5973W

Lims ID: 480-178688-A-1-A Lab Sample ID: 480-178688-1

Client ID: PZ93-1

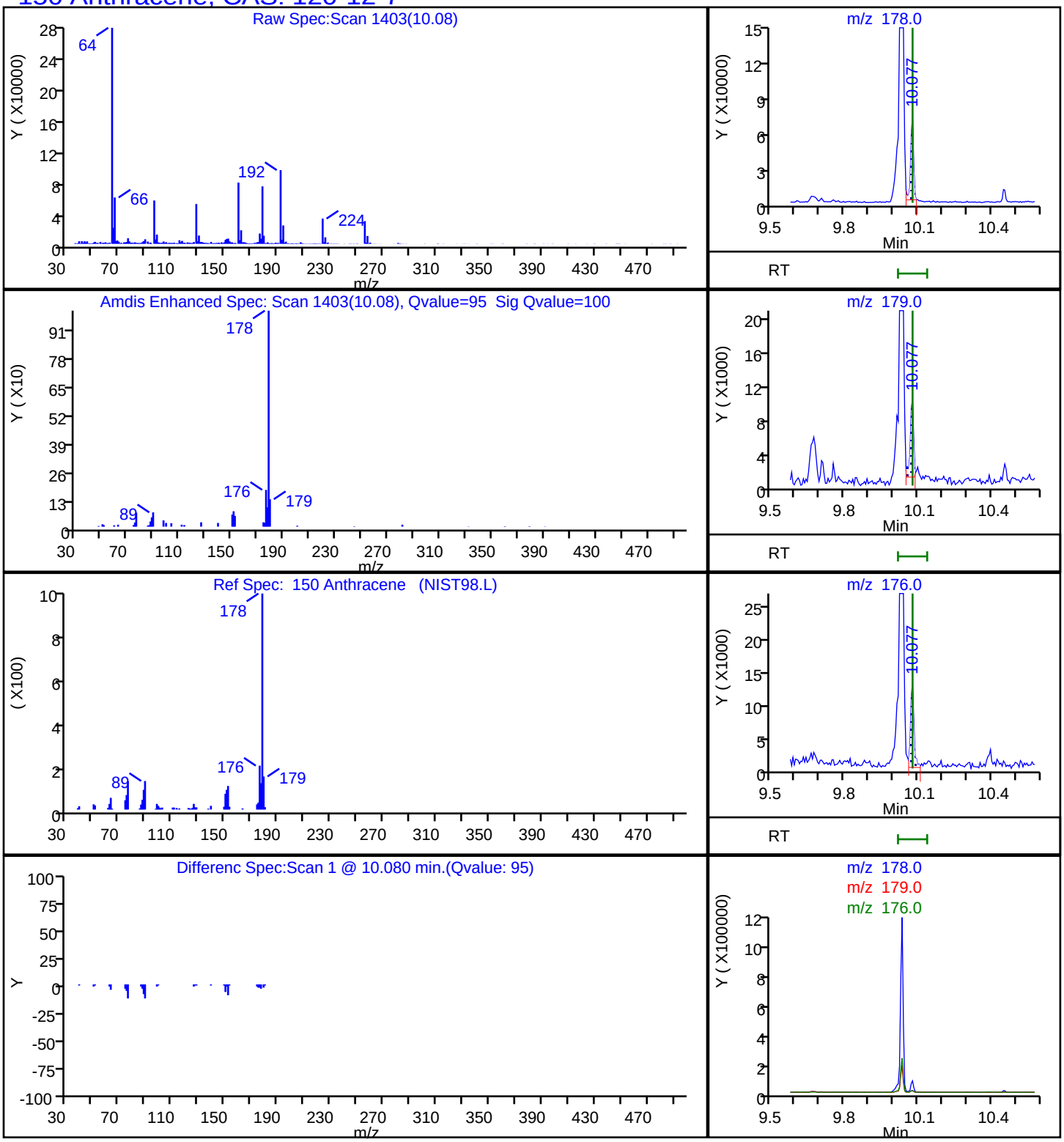
Operator ID: PJQ ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul Dil. Factor: 5.0000

Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

150 Anthracene, CAS: 120-12-7



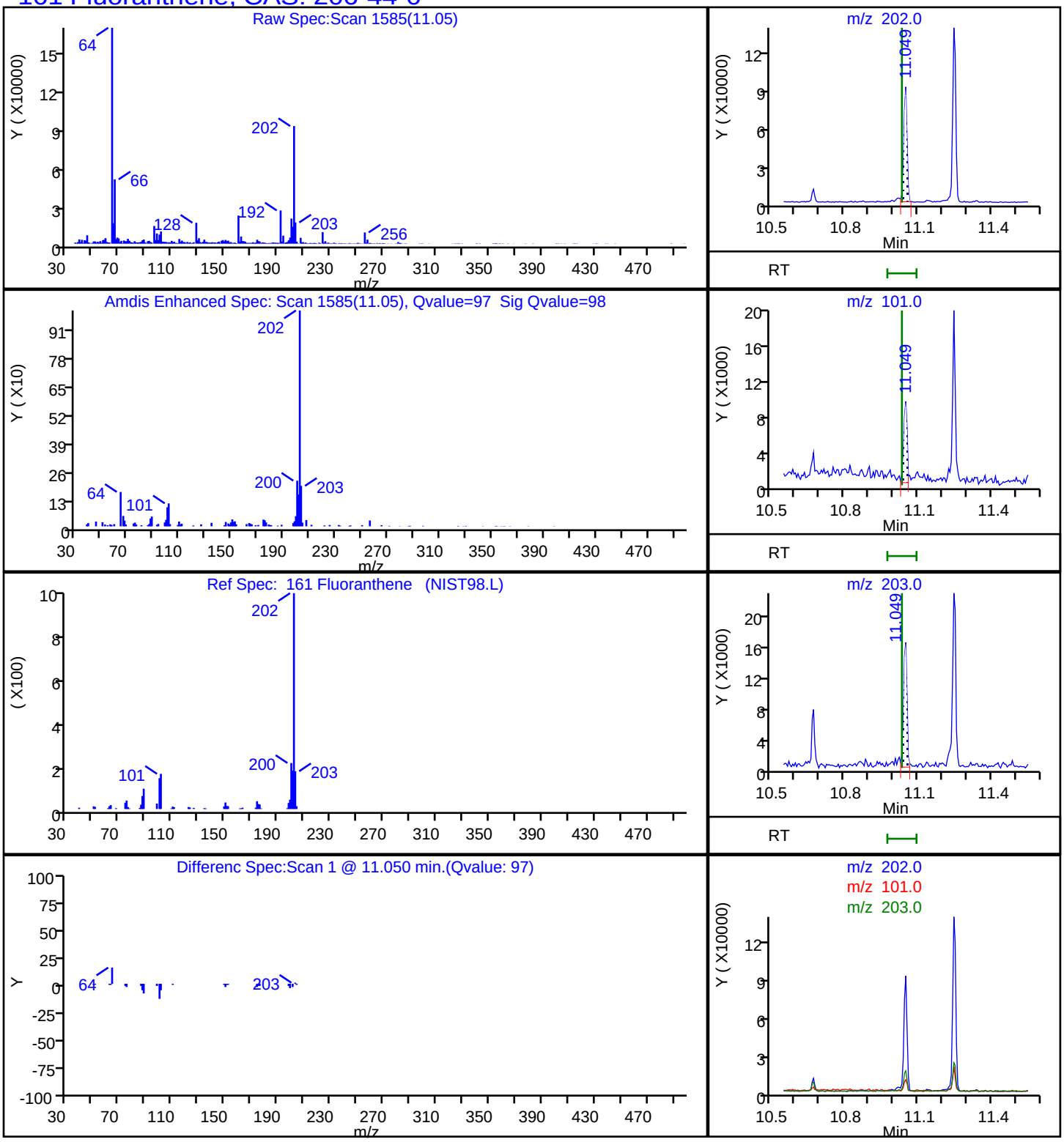
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

161 Fluoranthene, CAS: 206-44-0



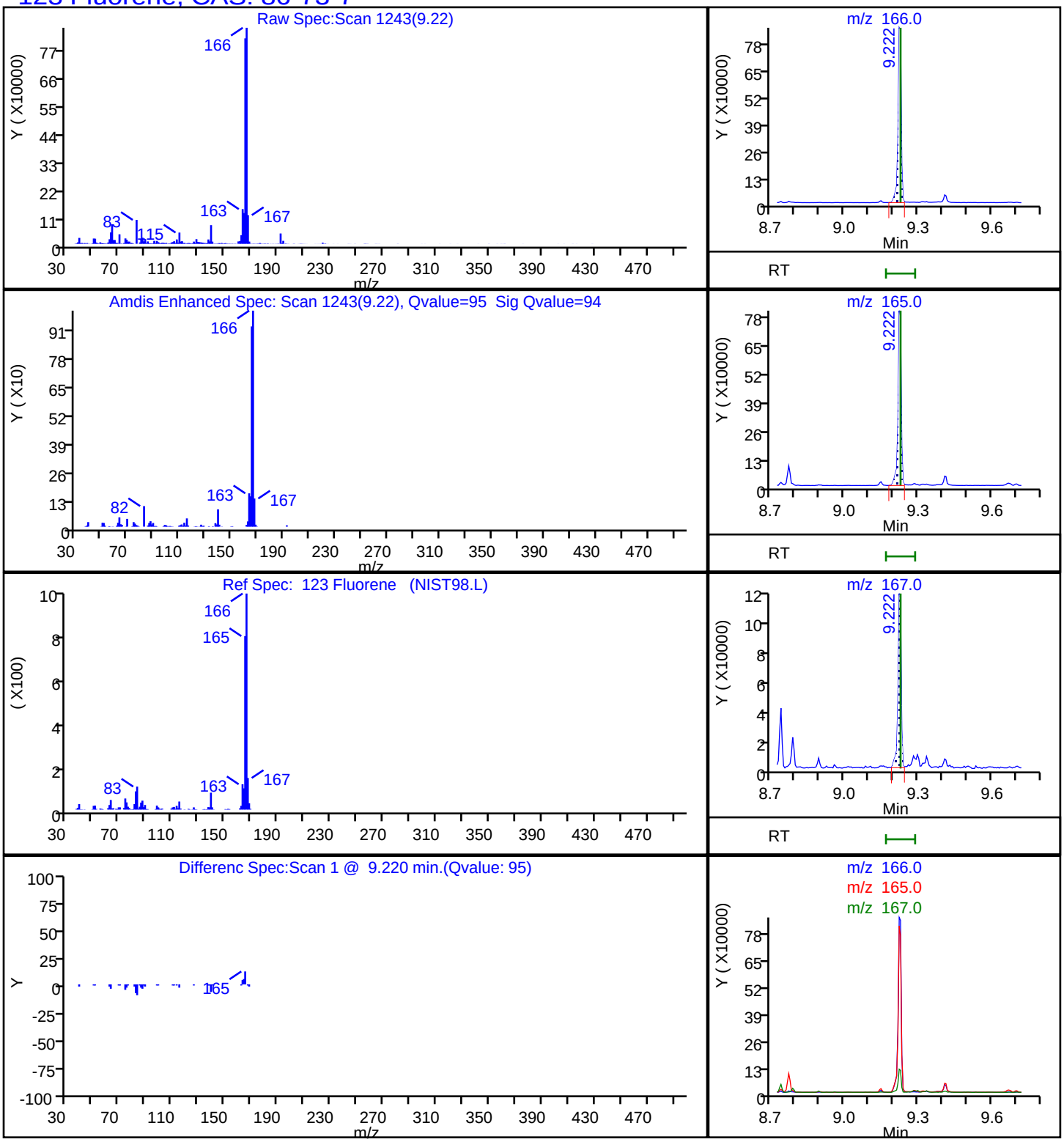
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

123 Fluorene, CAS: 86-73-7



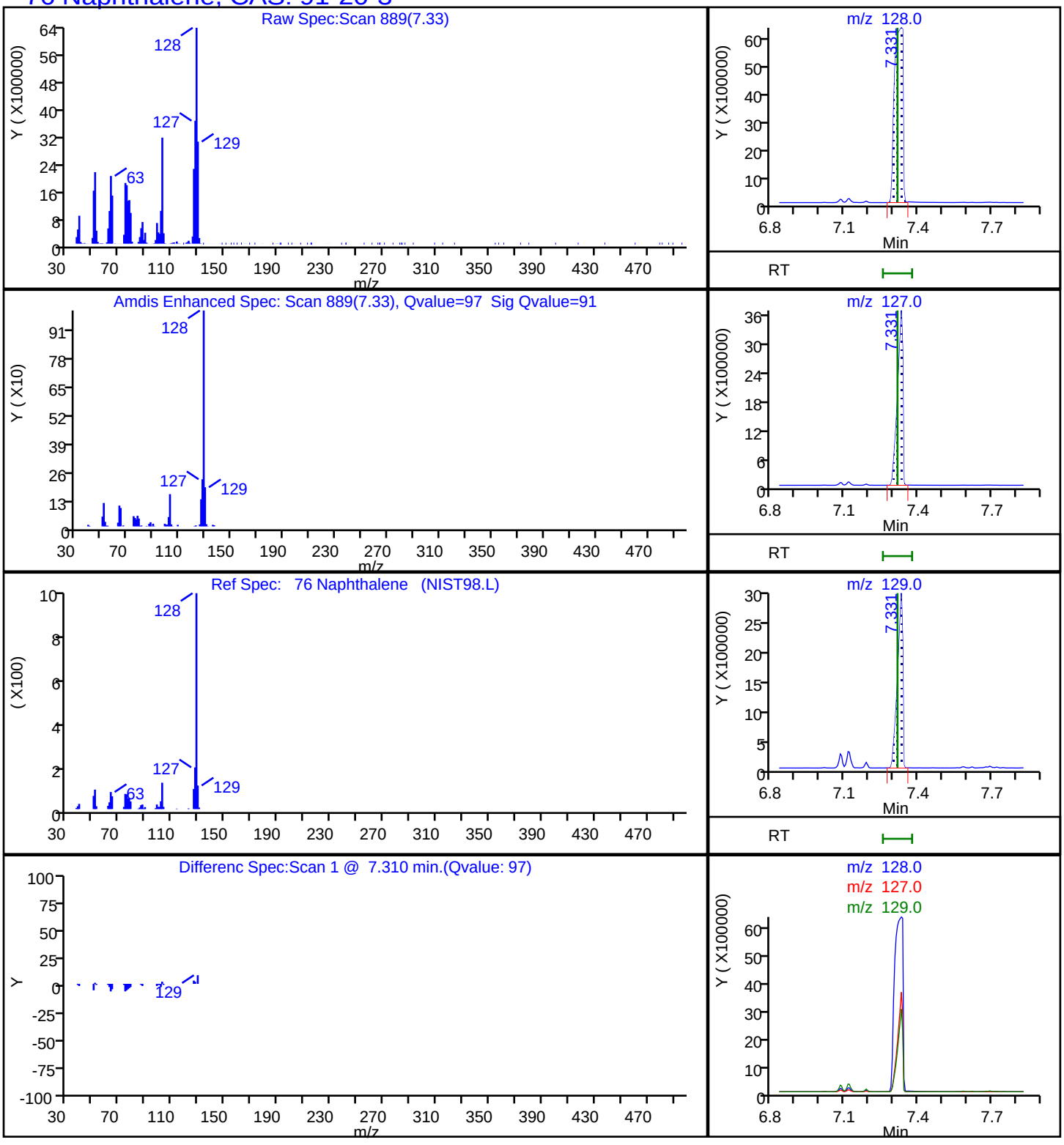
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

76 Naphthalene, CAS: 91-20-3



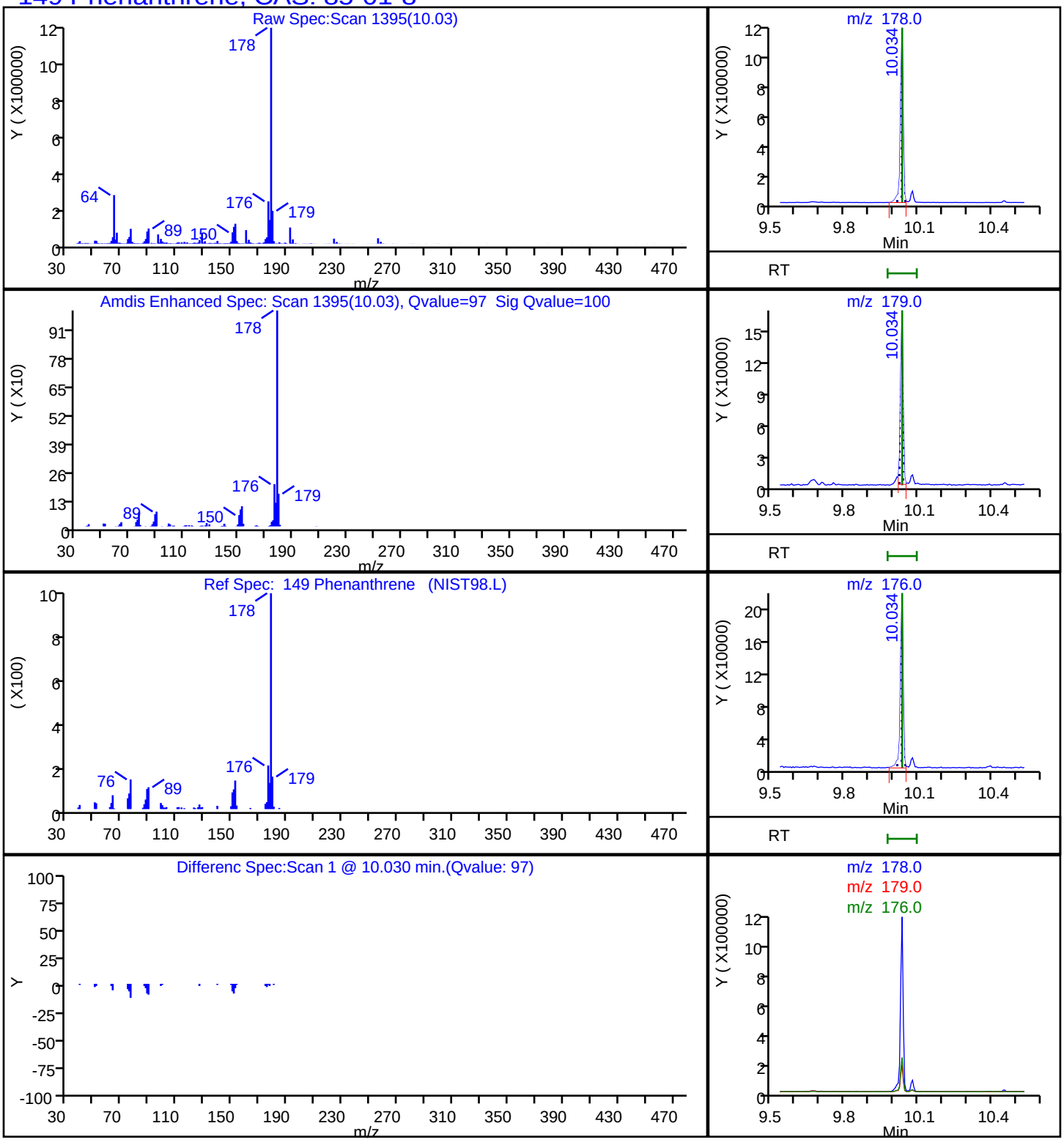
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1
Client ID:	PZ93-1		
Operator ID:	PJQ	ALS Bottle#:	17 Worklist Smp#: 17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

149 Phenanthrene, CAS: 85-01-8



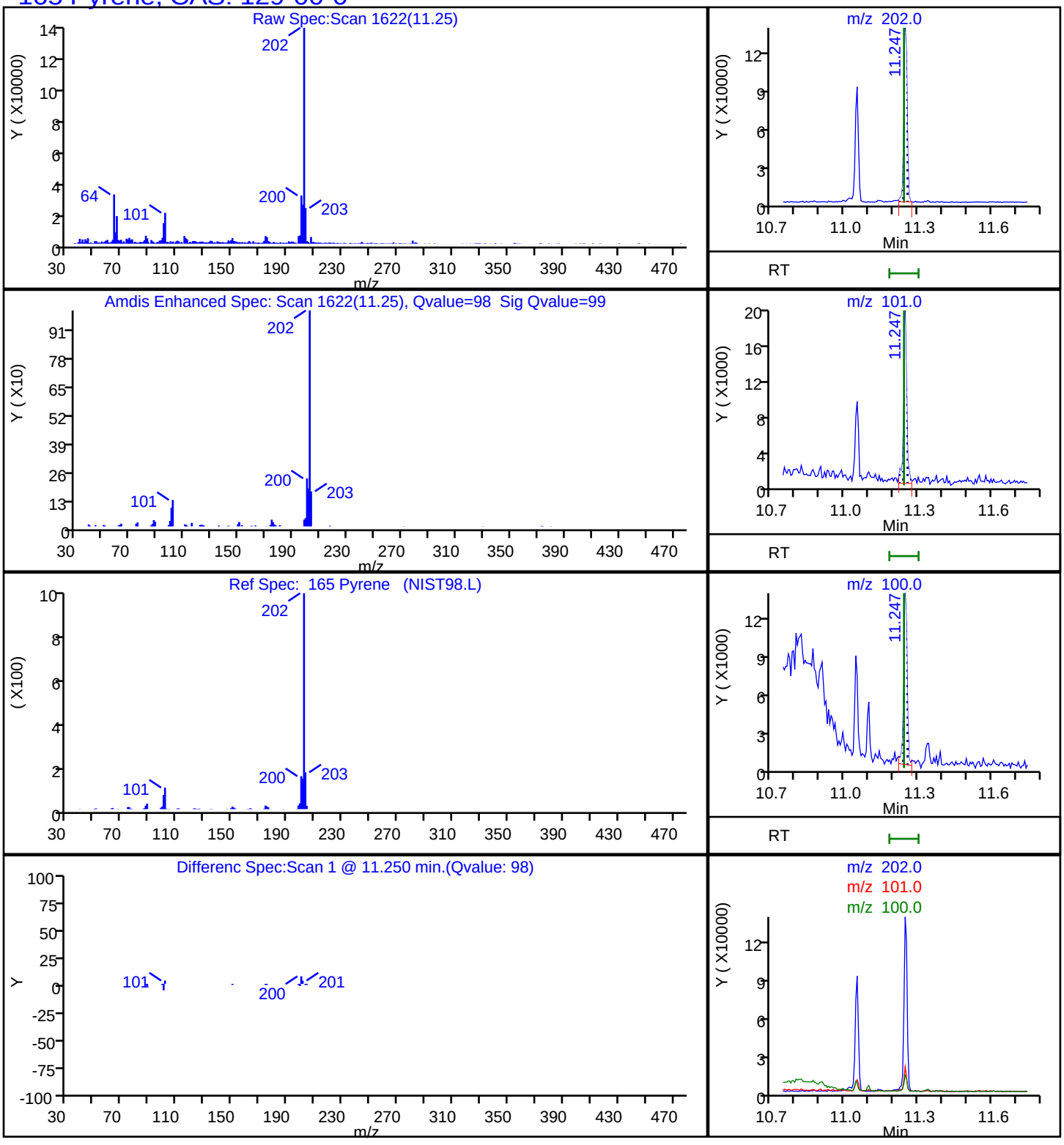
Report Date: 02-Dec-2020 12:57:57 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d

Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1
Client ID:	PZ93-1		
Operator ID:	PJQ	ALS Bottle#:	17 Worklist Smp#: 17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

165 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

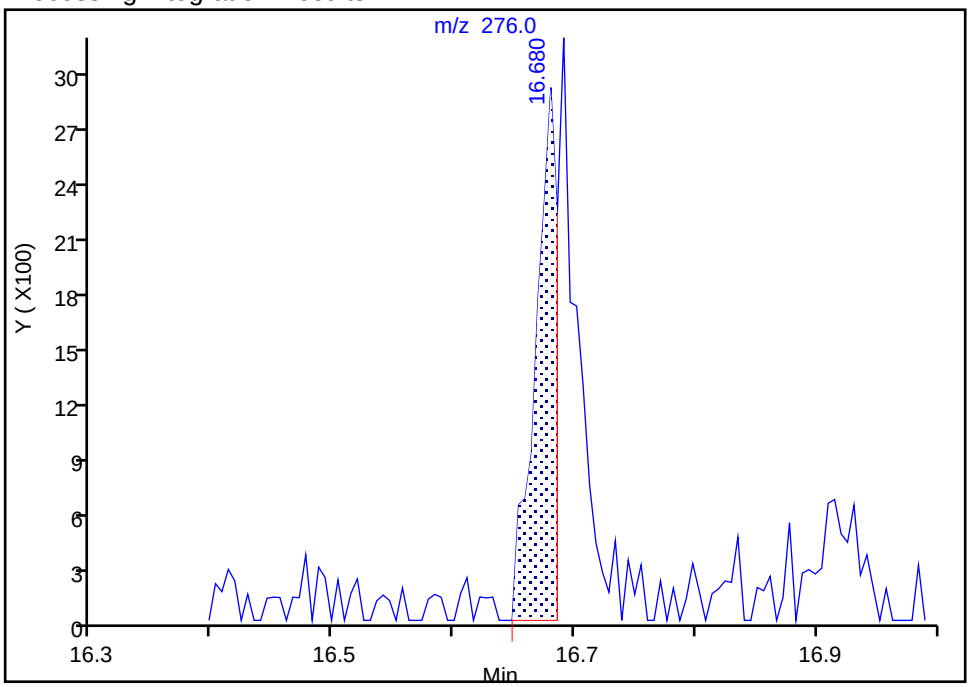
Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011421.d				
Injection Date:	01-Dec-2020 23:34:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

195 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

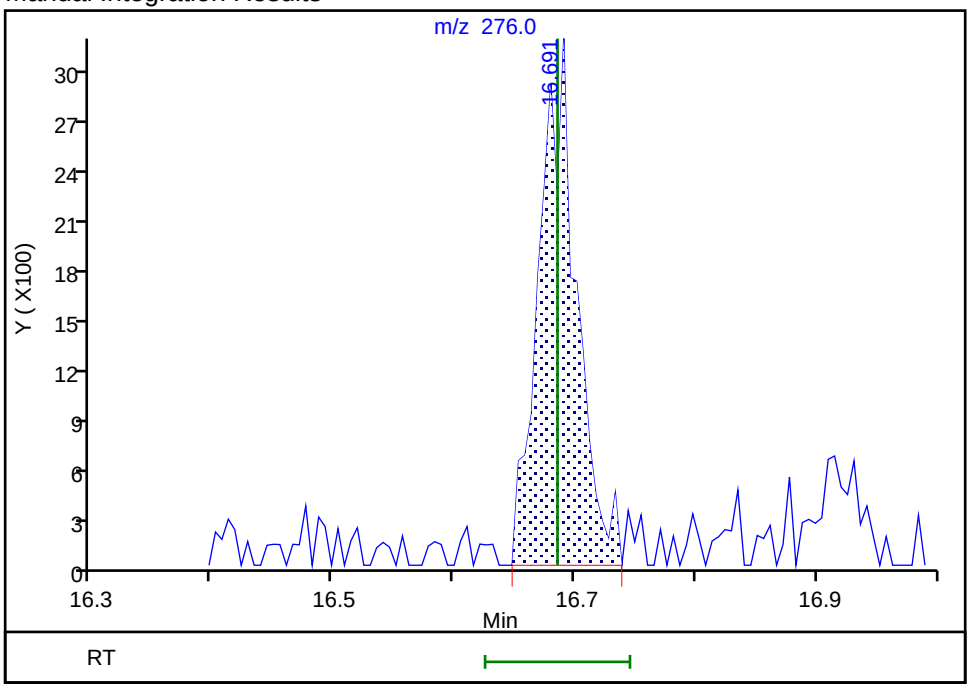
Processing Integration Results

RT: 16.68
Area: 3565
Amount: 0.024950
Amount Units: ng/uL



Manual Integration Results

RT: 16.69
Area: 6677
Amount: 0.039849
Amount Units: ng/uL



Reviewer: quirkp, 02-Dec-2020 12:57:13

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: PZ93-1 DL Lab Sample ID: 480-178688-1 DL

Matrix: Water Lab File ID: W10011505.d

Analysis Method: 8270D Date Collected: 11/23/2020 12:36

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/03/2020 23:39

Con. Extract Vol.: 1(mL) Dilution Factor: 100

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561842 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*220*	*J*	*500*	*41*
208-96-8	*Acenaphthylene*	*ND*		*500*	*38*
120-12-7	*Anthracene*	*ND*		*500*	*28*
56-55-3	*Benzo[a]anthracene*	*ND*		*500*	*36*
50-32-8	*Benzo[a]pyrene*	*ND*		*500*	*47*
205-99-2	*Benzo[b]fluoranthene*	*ND*		*500*	*34*
191-24-2	*Benzo[g,h,i]perylene*	*ND*		*500*	*35*
207-08-9	*Benzo[k]fluoranthene*	*ND*		*500*	*73*
218-01-9	*Chrysene*	*ND*		*500*	*33*
53-70-3	*Dibenz(a,h)anthracene*	*ND*		*500*	*42*
206-44-0	*Fluoranthene*	*ND*		*500*	*40*
86-73-7	*Fluorene*	*83*	*J*	*500*	*36*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*		*500*	*47*
91-20-3	Naphthalene	3700		500	76
85-01-8	*Phenanthrene*	*66*	*J*	*500*	*44*
129-00-0	*Pyrene*	*ND*		*500*	*34*

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	88		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	118		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	79		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011505.d
Lims ID: 480-178688-A-1-A
Client ID: PZ93-1
Sample Type: Client
Inject. Date: 03-Dec-2020 23:39:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 100.0000
Sample Info: 480-0095412-020
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 04-Dec-2020 11:49:51 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1615

First Level Reviewer: quirkp Date: 04-Dec-2020 11:49:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.193	6.193	0.000	93	262817	4.00	
* 2 Naphthalene-d8	136	7.278	7.278	0.000	99	968964	4.00	
* 3 Acenaphthene-d10	164	8.752	8.752	0.000	92	537771	4.00	
* 4 Phenanthrene-d10	188	9.997	9.997	0.000	96	940912	4.00	
* 5 Chrysene-d12	240	12.508	12.508	0.000	99	810135	4.00	
* 6 Perylene-d12	264	14.559	14.559	0.000	98	801928	4.00	
$ 9 Nitrobenzene-d5	82	6.669	6.669	0.000	83	4678	0.0946	
$ 10 2-Fluorobiphenyl	172	8.170	8.170	0.000	97	13107	0.0701	
$ 12 p-Terphenyl-d14	244	11.322	11.322	0.000	97	13476	0.0635	
76 Naphthalene	128	7.299	7.299	0.000	97	2304336	9.18	
107 Acenaphthylene	152		8.640				ND	Ua
109 Acenaphthene	153	8.779	8.779	0.000	94	84358	0.5377	
123 Fluorene	166	9.212	9.212	0.000	94	36409	0.2087	
149 Phenanthrene	178	10.018	10.018	0.000	94	43139	0.1661	
150 Anthracene	178	10.061	10.061	0.000	90	2850	0.0109	
161 Fluoranthene	202	11.017	11.012	0.005	93	4338	0.0158	
165 Pyrene	202	11.226	11.220	0.006	97	5256	0.0209	
179 Benzo[a]anthracene	228		12.497				ND	
181 Chrysene	228		12.545				ND	
186 Benzo[b]fluoranthene	252		13.982				ND	
187 Benzo[k]fluoranthene	252		14.020				ND	
189 Benzo[a]pyrene	252		14.474				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.199				ND	
194 Dibenz(a,h)anthracene	278		16.205				ND	
195 Benzo[g,h,i]perylene	276		16.637				ND	

QC Flag Legend
Processing Flags

Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

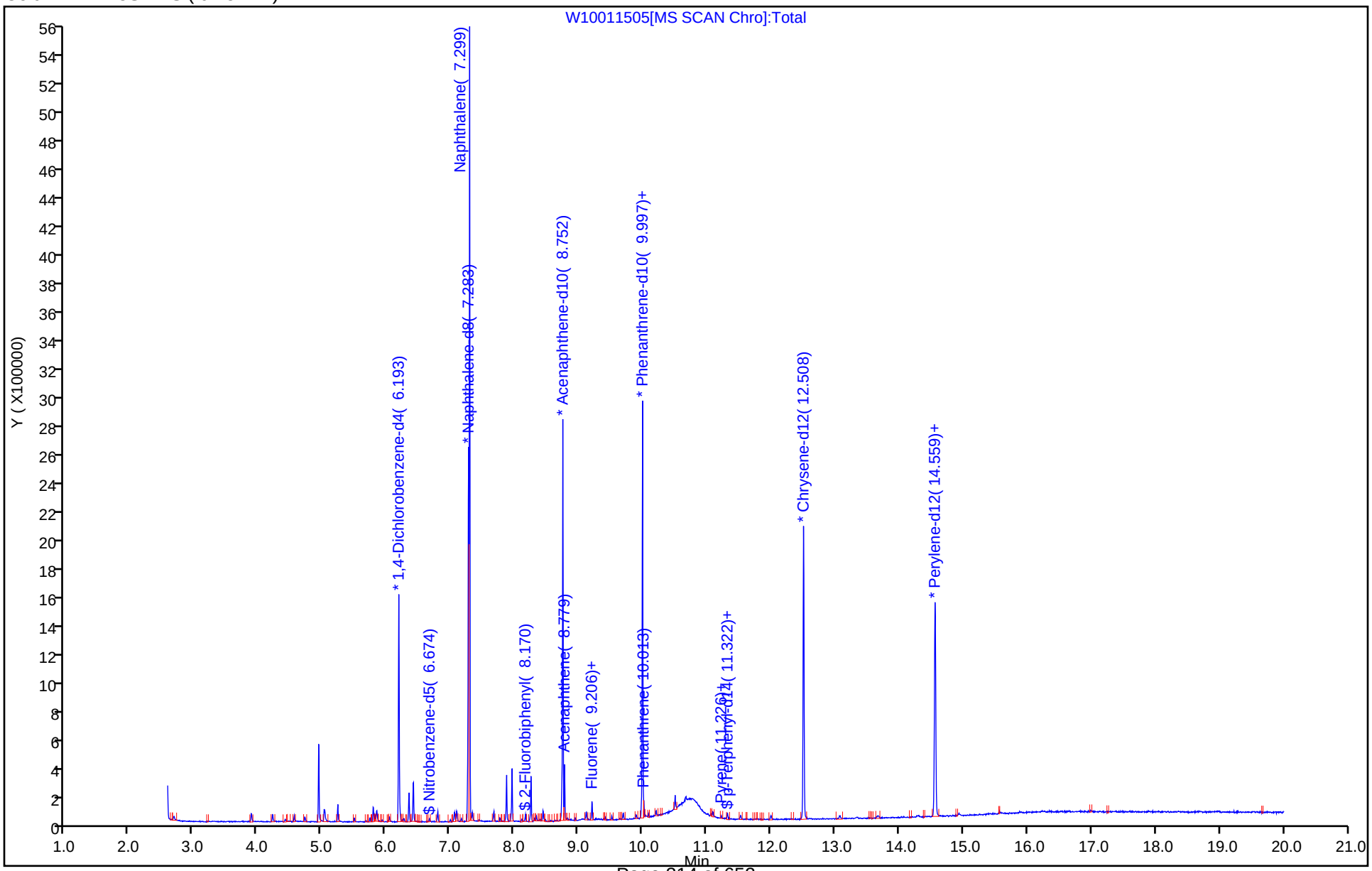
Report Date: 04-Dec-2020 11:49:52 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011505.d

Injection Date:	03-Dec-2020 23:39:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1	Worklist Smp#:	20
Client ID:	PZ93-1				
Injection Vol:	2.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	20
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



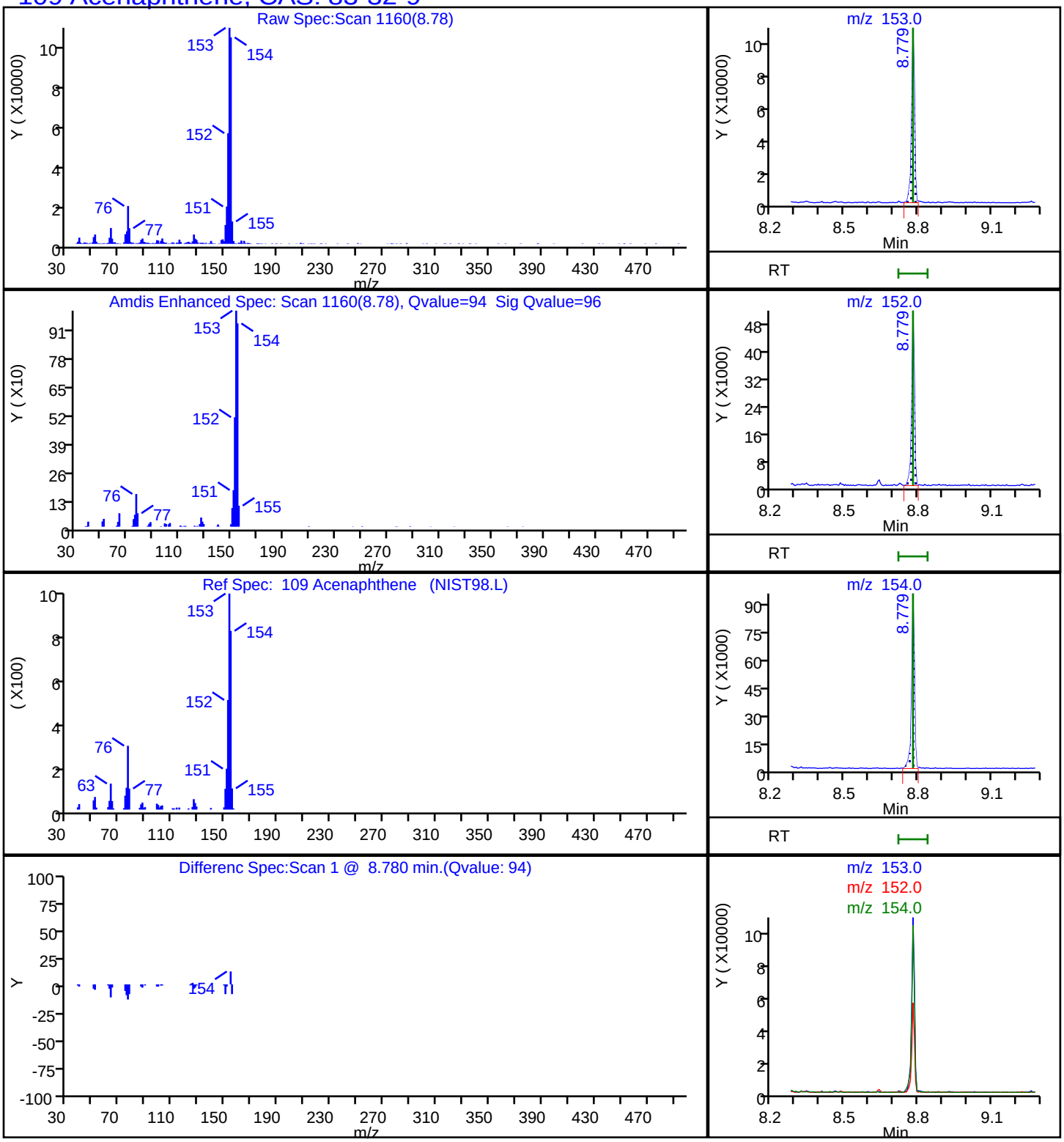
Report Date: 04-Dec-2020 11:49:52 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011505.d

Injection Date:	03-Dec-2020 23:39:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

109 Acenaphthene, CAS: 83-32-9



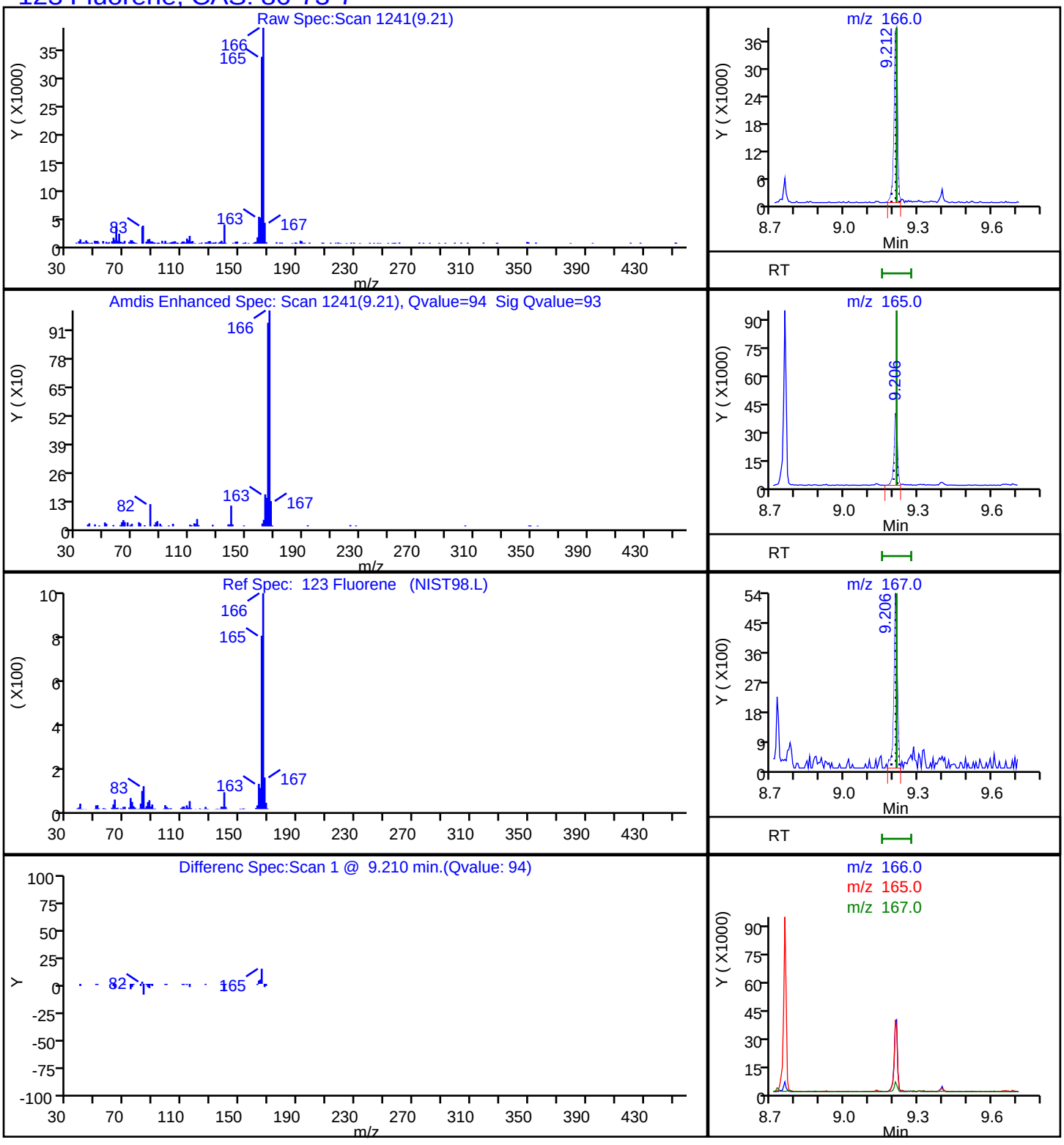
Report Date: 04-Dec-2020 11:49:52 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011505.d

Injection Date:	03-Dec-2020 23:39:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

123 Fluorene, CAS: 86-73-7



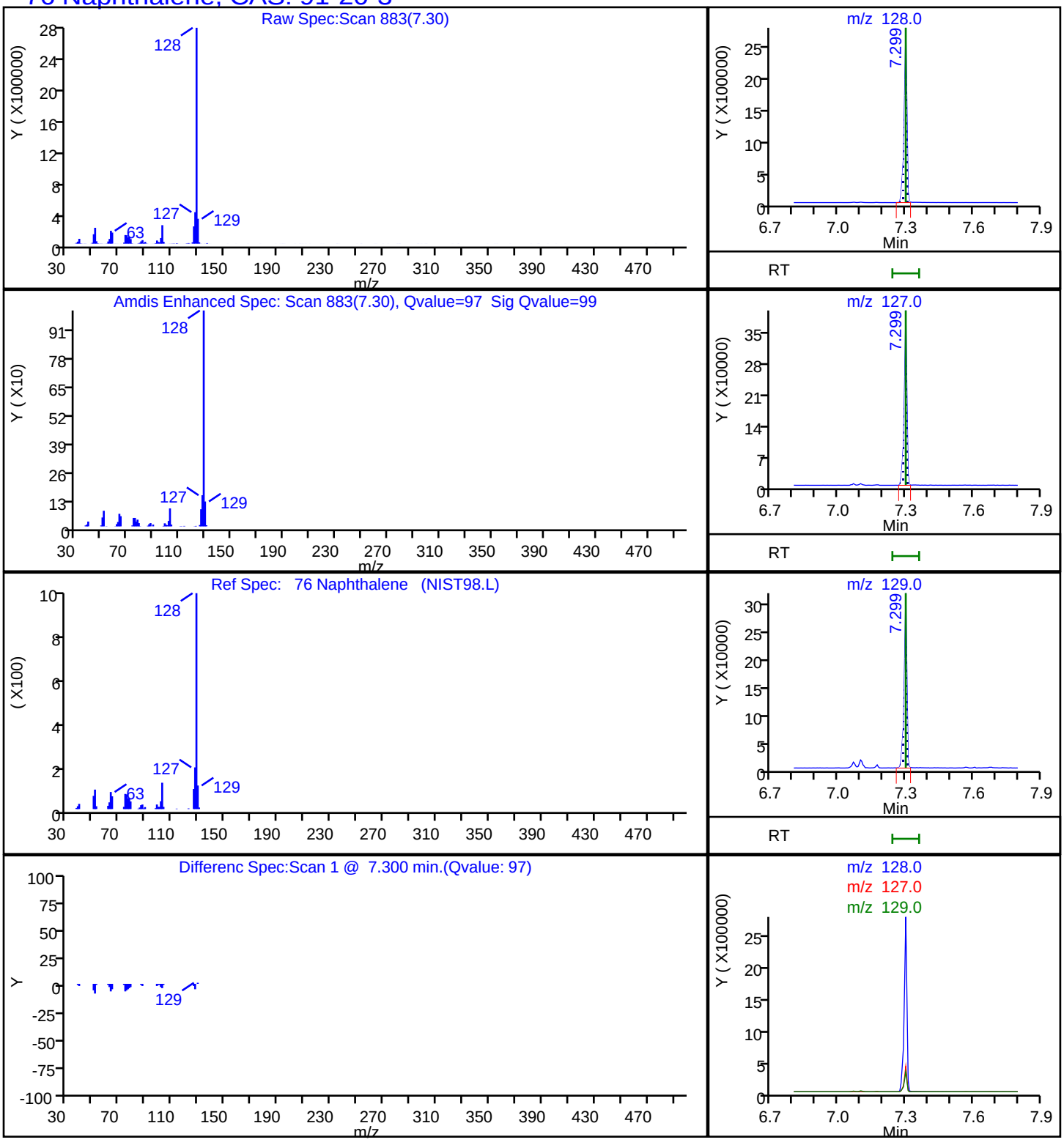
Report Date: 04-Dec-2020 11:49:52 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011505.d

Injection Date:	03-Dec-2020 23:39:30	Instrument ID:	HP5973W
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1
Client ID:	PZ93-1		
Operator ID:	PJQ	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	100.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

76 Naphthalene, CAS: 91-20-3



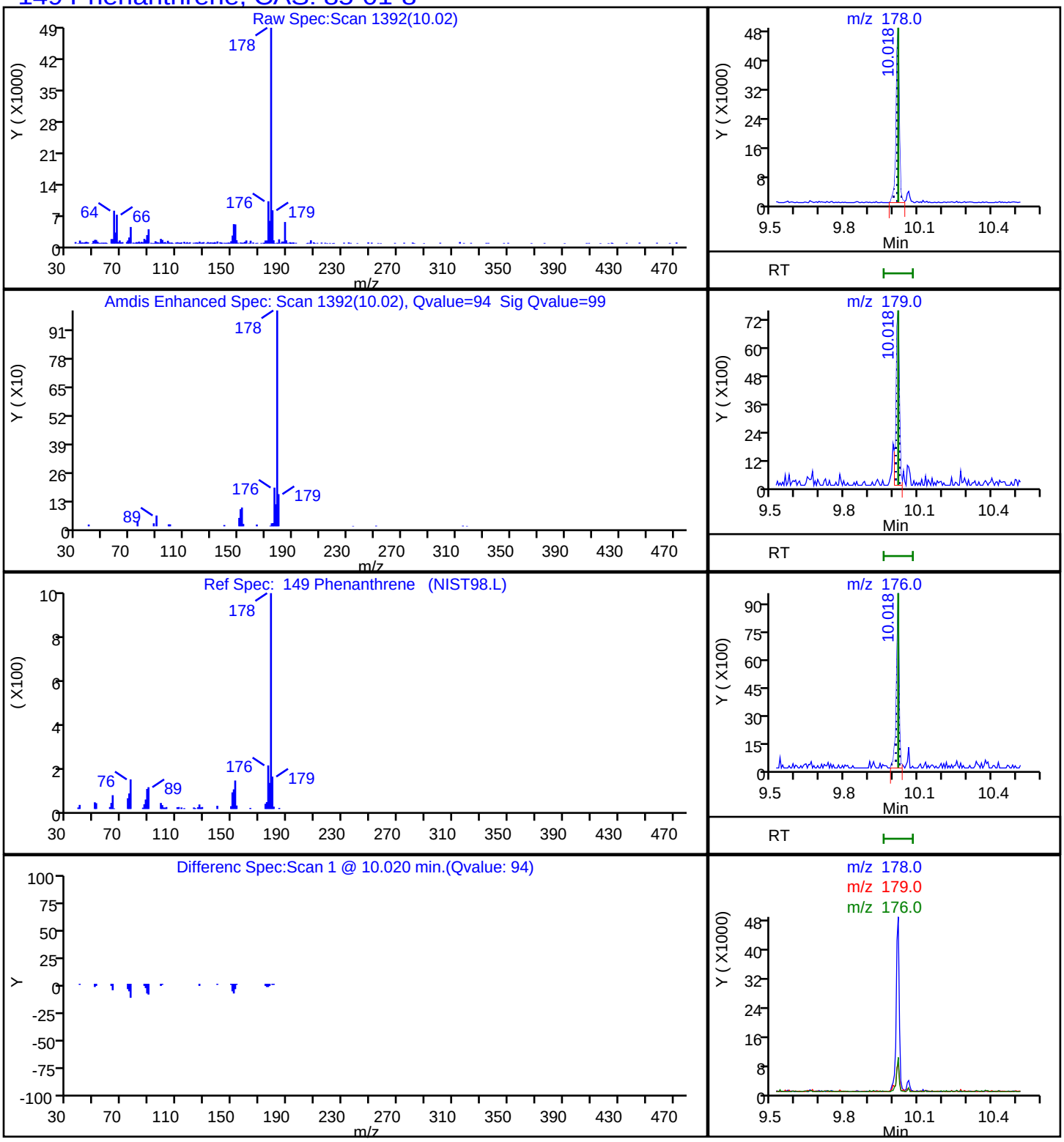
Report Date: 04-Dec-2020 11:49:52 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011505.d

Injection Date:	03-Dec-2020 23:39:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-1-A	Lab Sample ID:	480-178688-1		
Client ID:	PZ93-1				
Operator ID:	PJQ	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	2.0 ul	Dil. Factor:	100.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

149 Phenanthrene, CAS: 85-01-8



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW93-05D Lab Sample ID: 480-178688-2

Matrix: Water Lab File ID: W10011422.d

Analysis Method: 8270D Date Collected: 11/23/2020 13:02

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 00:03

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.: 561494 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	0.87	J	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	1.4	J	5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	111		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	104		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	107		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011422.d
Lims ID: 480-178688-B-2-A
Client ID: MW93-05D
Sample Type: Client
Inject. Date: 02-Dec-2020 00:03:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-018
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:59:02 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:59:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.215	6.215	0.000	93	252660	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	881901	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	498500	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	872210	4.00	
* 5 Chrysene-d12	240	12.534	12.540	-0.006	99	771507	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	729855	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	586240	8.29	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1541513	8.89	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1722493	8.52	
76 Naphthalene	128	7.315	7.310	0.000	93	27935	0.1222	
107 Acenaphthylene	152	8.651	8.656	-0.005	95	4317	0.0205	
109 Acenaphthene	153		8.795				ND	Ua
123 Fluorene	166		9.228				ND	U
149 Phenanthrene	178	10.034	10.034	0.000	92	8352	0.0347	
150 Anthracene	178	10.072	10.077	-0.005	92	4007	0.0165	
161 Fluoranthene	202	11.033	11.033	0.000	97	55130	0.2164	
165 Pyrene	202	11.242	11.237	0.000	98	84040	0.3506	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

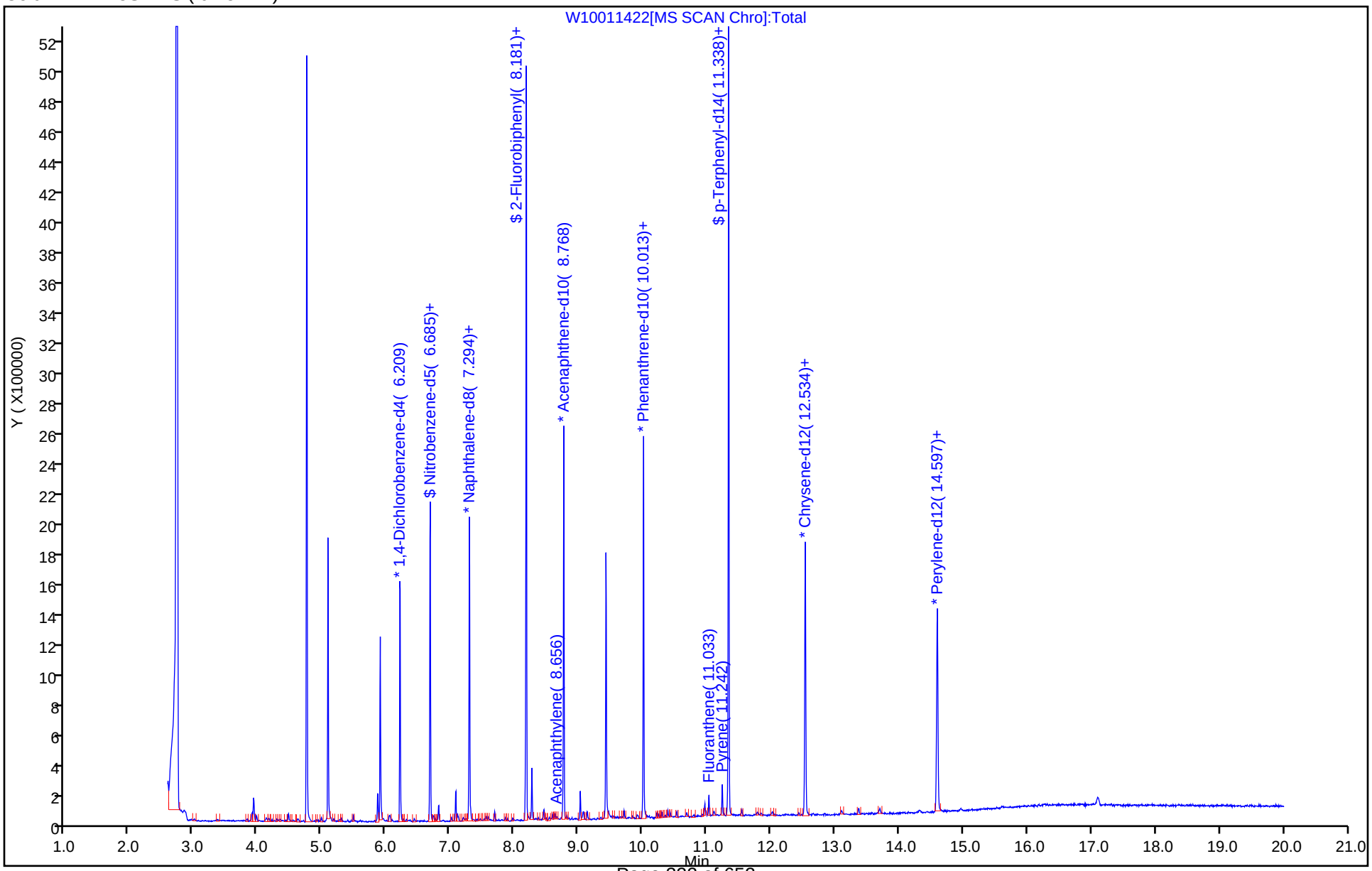
Report Date: 02-Dec-2020 12:59:03 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011422.d

Injection Date:	02-Dec-2020 00:03:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-B-2-A	Lab Sample ID:	480-178688-2	Worklist Smp#:	18
Client ID:	MW93-05D				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



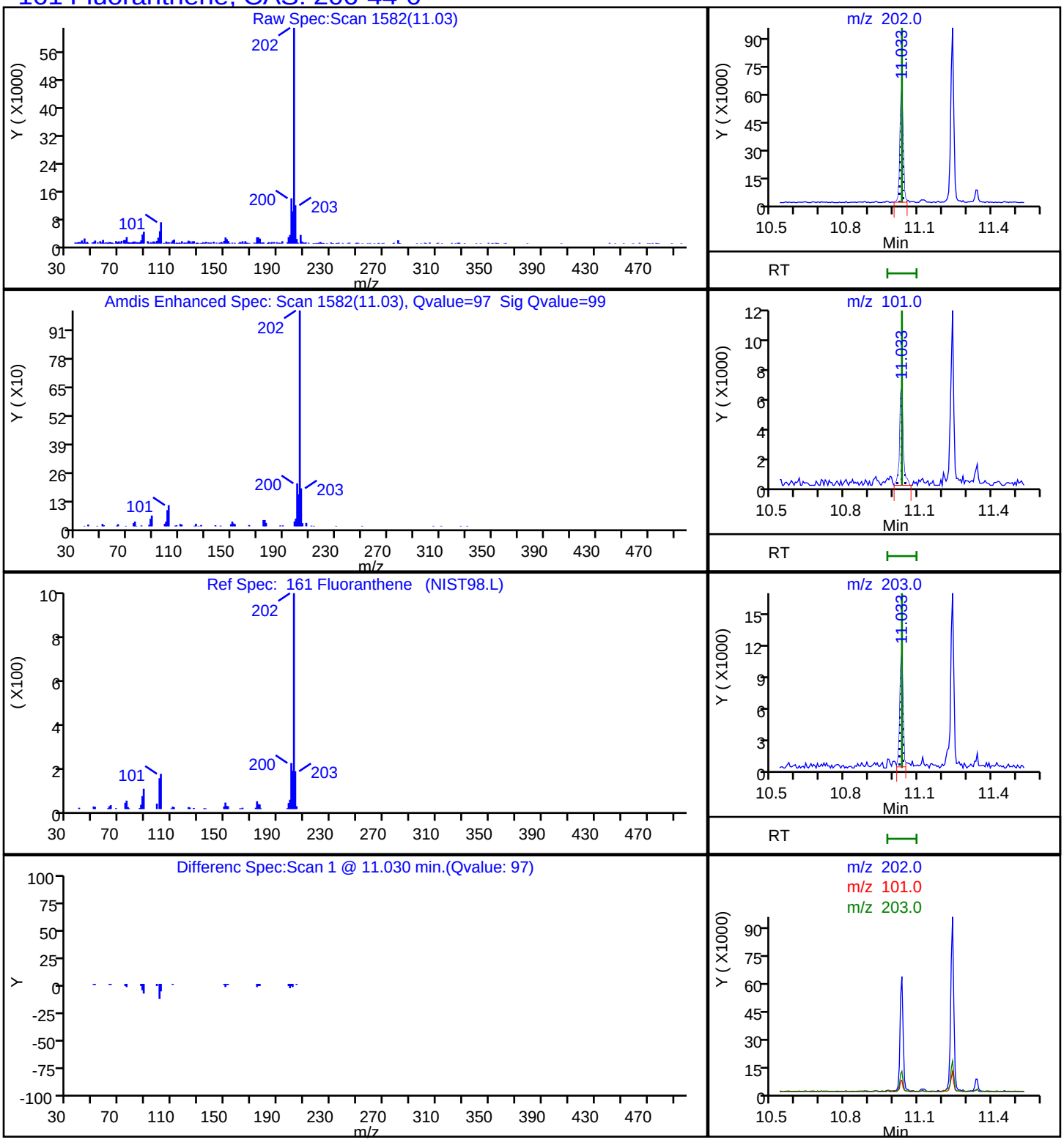
Report Date: 02-Dec-2020 12:59:03 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011422.d

Injection Date:	02-Dec-2020 00:03:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-B-2-A	Lab Sample ID:	480-178688-2		
Client ID:	MW93-05D				
Operator ID:	PJQ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

161 Fluoranthene, CAS: 206-44-0



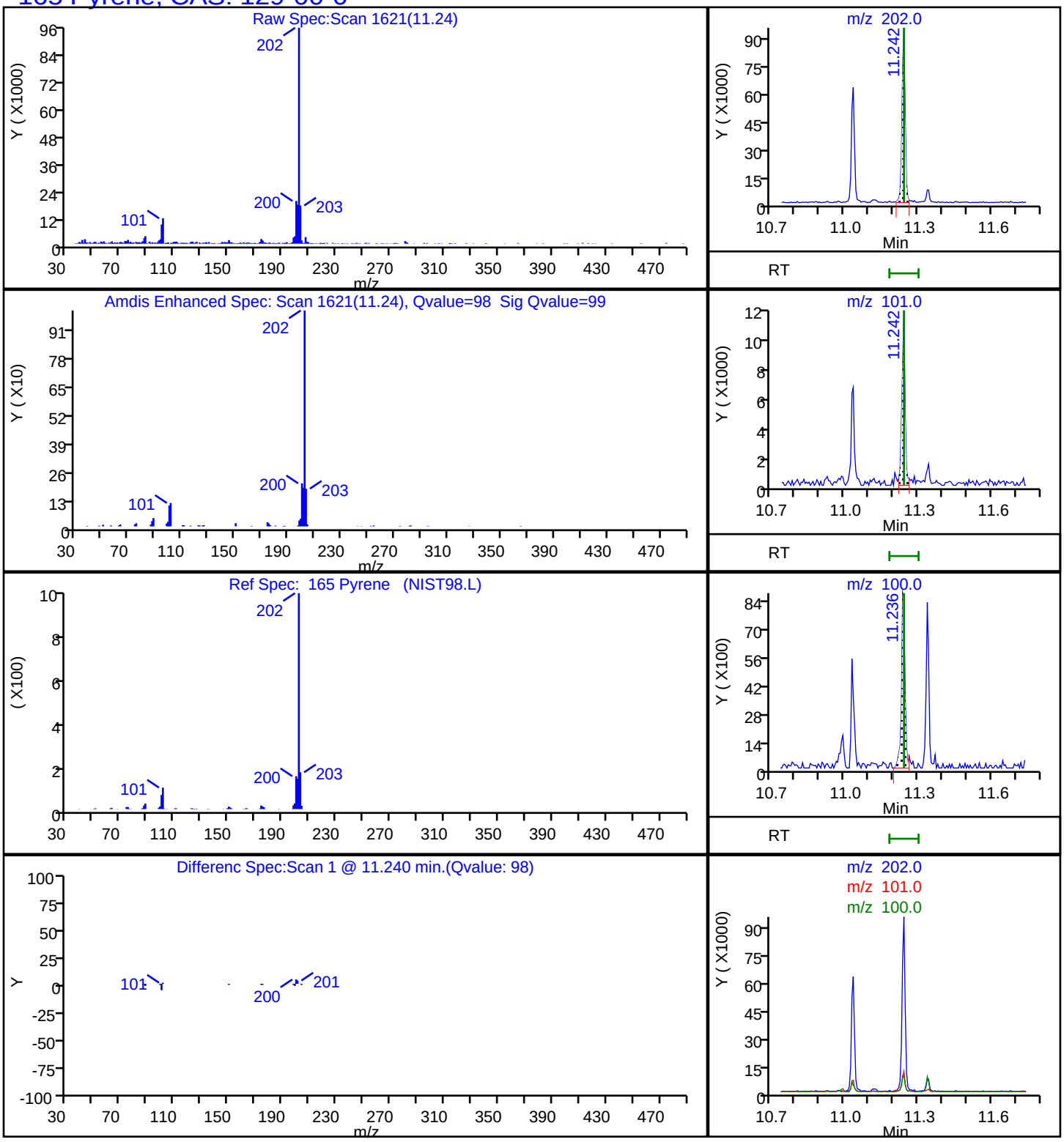
Report Date: 02-Dec-2020 12:59:03 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011422.d

Injection Date:	02-Dec-2020 00:03:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-B-2-A	Lab Sample ID:	480-178688-2		
Client ID:	MW93-05D				
Operator ID:	PJQ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



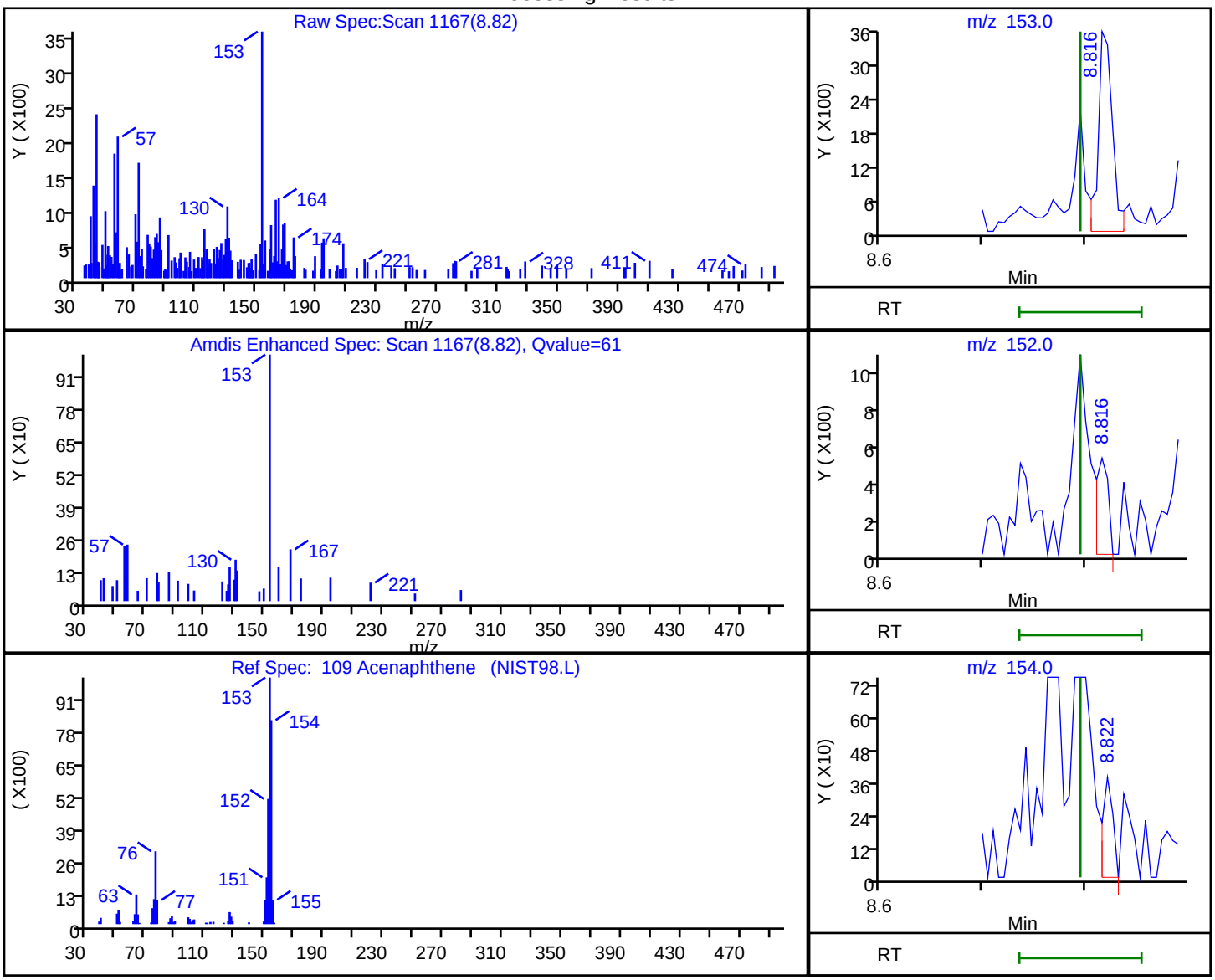
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011422.d				
Injection Date:	02-Dec-2020 00:03:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-B-2-A	Lab Sample ID:	480-178688-2		
Client ID:	MW93-05D				
Operator ID:	PJQ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

109 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
8.82	153.00	3395	0.023343
8.82	152.00	399	
8.82	154.00	260	

Reviewer: quirkp, 02-Dec-2020 12:58:24

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

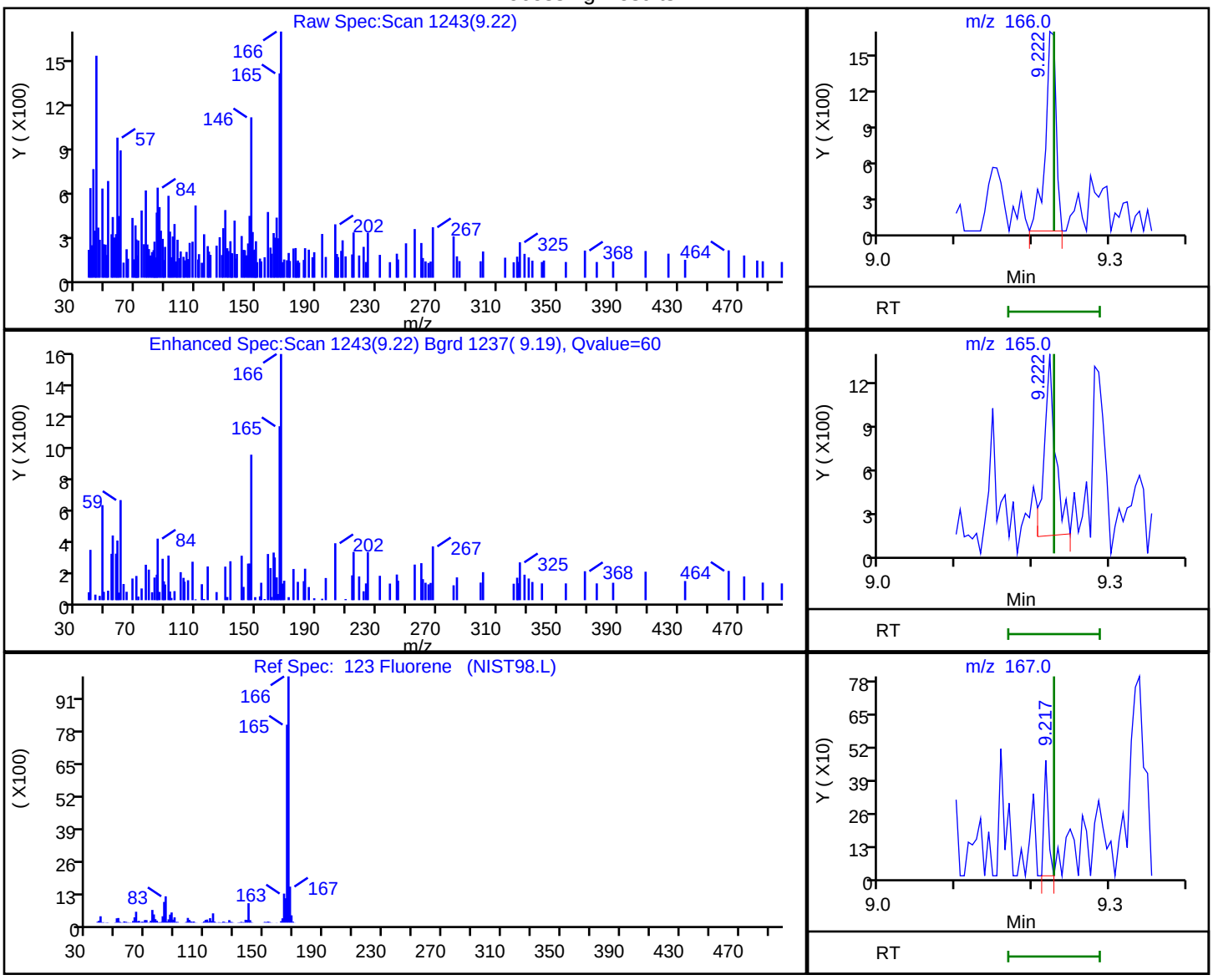
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011422.d				
Injection Date:	02-Dec-2020 00:03:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-B-2-A	Lab Sample ID:	480-178688-2		
Client ID:	MW93-05D				
Operator ID:	PJQ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

123 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
9.22	166.00	1630	0.010078
9.22	165.00	1249	
9.22	167.00	181	

Reviewer: quirkp, 02-Dec-2020 12:58:50

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-D Lab Sample ID: 480-178688-3

Matrix: Water Lab File ID: W10011414.d

Analysis Method: 8270D Date Collected: 11/23/2020 14:15

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/01/2020 20:14

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.: 561494 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	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		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	ND		5.0	0.40
86-73-7	Fluorene	ND		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		5.0	0.44
129-00-0	Pyrene	ND		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	99		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	97		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	102		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011414.d
Lims ID: 480-178688-B-3-A
Client ID: MW-97-14 -D
Sample Type: Client
Inject. Date: 01-Dec-2020 20:14:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-010
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:50:42 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:50:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.215	6.215	0.000	93	264571	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	908887	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	520542	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	903685	4.00	
* 5 Chrysene-d12	240	12.534	12.540	-0.006	99	776752	4.00	
* 6 Perylene-d12	264	14.591	14.597	-0.006	98	752351	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	567401	7.79	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1434982	7.92	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1655475	8.14	
76 Naphthalene	128	7.315	7.310	0.000	93	5324	0.0226	
107 Acenaphthylene	152		8.656				ND	U
109 Acenaphthene	153		8.795				ND	
123 Fluorene	166		9.228				ND	U
149 Phenanthrene	178	10.029	10.034	-0.005	92	8326	0.0334	
150 Anthracene	178		10.077				ND	
161 Fluoranthene	202	11.033	11.033	0.000	95	8734	0.0331	
165 Pyrene	202	11.242	11.237	0.000	96	6125	0.0254	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

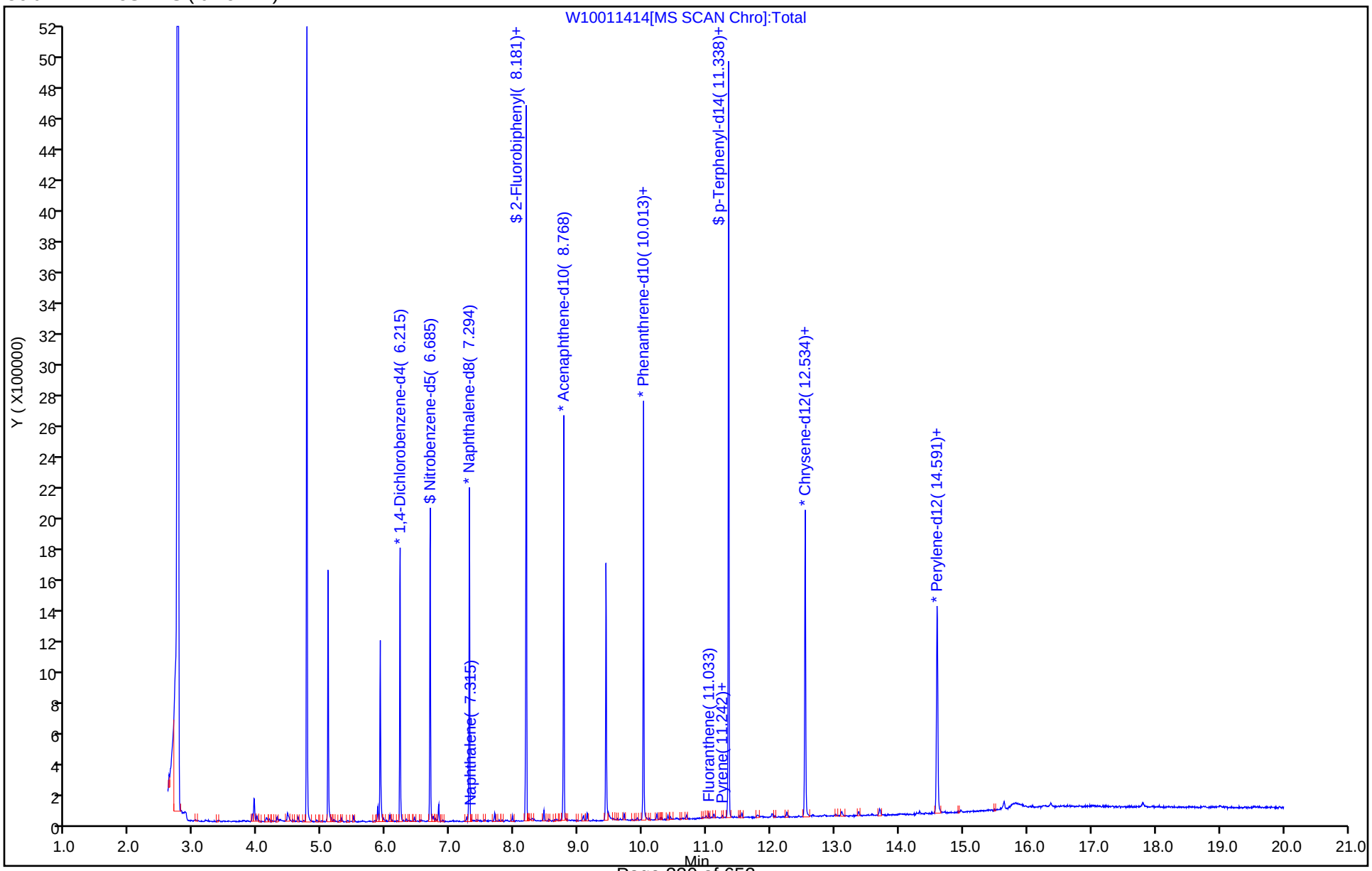
Report Date: 02-Dec-2020 12:50:42 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011414.d

Injection Date:	01-Dec-2020 20:14:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-B-3-A	Lab Sample ID:	480-178688-3	Worklist Smp#:	10
Client ID:	MW-97-14 -D				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



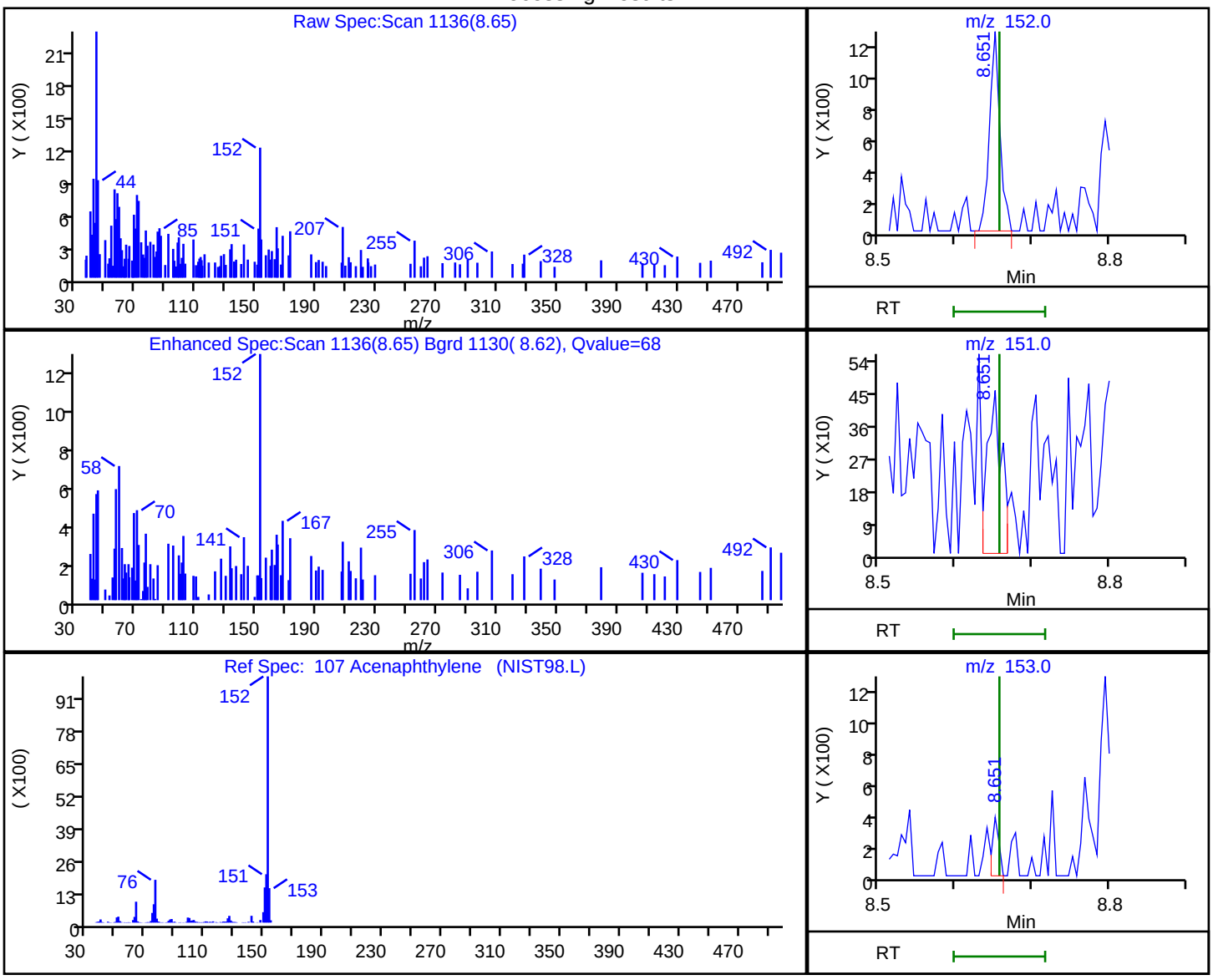
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011414.d				
Injection Date:	01-Dec-2020 20:14:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-B-3-A	Lab Sample ID:	480-178688-3		
Client ID:	MW-97-14 -D				
Operator ID:	PJQ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

107 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
8.65	152.00	1136	0.005177
8.65	151.00	601	
8.65	153.00	216	

Reviewer: quirkp, 02-Dec-2020 12:50:13

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

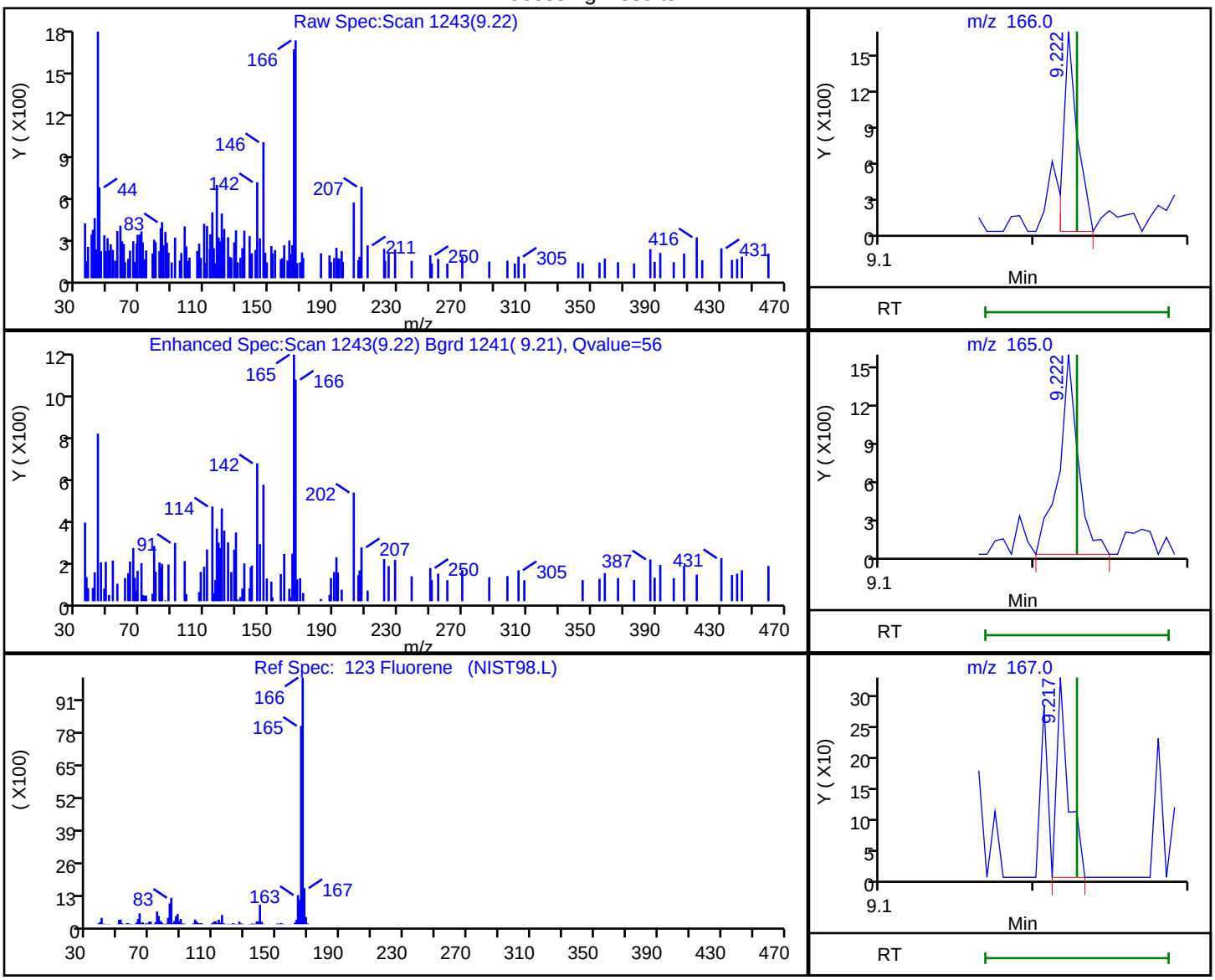
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011414.d				
Injection Date:	01-Dec-2020 20:14:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-B-3-A	Lab Sample ID:	480-178688-3		
Client ID:	MW-97-14 -D				
Operator ID:	PJQ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

123 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
9.22	166.00	1011	0.005986
9.22	165.00	1381	
9.22	167.00	171	

Reviewer: quirkp, 02-Dec-2020 12:50:16

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-S Lab Sample ID: 480-178688-4

Matrix: Water Lab File ID: W10011423.d

Analysis Method: 8270D Date Collected: 11/23/2020 14:35

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 00:33

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.: 561494 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	100		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	93		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	90		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011423.d
Lims ID: 480-178688-B-4-A
Client ID: MW-97-14-S
Sample Type: Client
Inject. Date: 02-Dec-2020 00:33:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-019
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:59:02 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:59:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.215	6.215	0.000	93	261805	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	915196	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	513668	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	909156	4.00	
* 5 Chrysene-d12	240	12.535	12.540	-0.005	99	784695	4.00	
* 6 Perylene-d12	264	14.591	14.597	-0.006	98	756401	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	543873	7.41	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1428011	7.99	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1471935	7.16	
76 Naphthalene	128	7.315	7.310	0.000	94	17271	0.0728	
107 Acenaphthylene	152		8.656				ND	
109 Acenaphthene	153		8.795				ND	
123 Fluorene	166		9.228				ND	
149 Phenanthrene	178	10.029	10.034	-0.005	91	6474	0.0258	
150 Anthracene	178	10.077	10.077	0.000	58	1618	0.006410	
161 Fluoranthene	202	11.033	11.033	0.000	92	3894	0.0147	
165 Pyrene	202	11.242	11.237	0.000	65	3076	0.0126	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

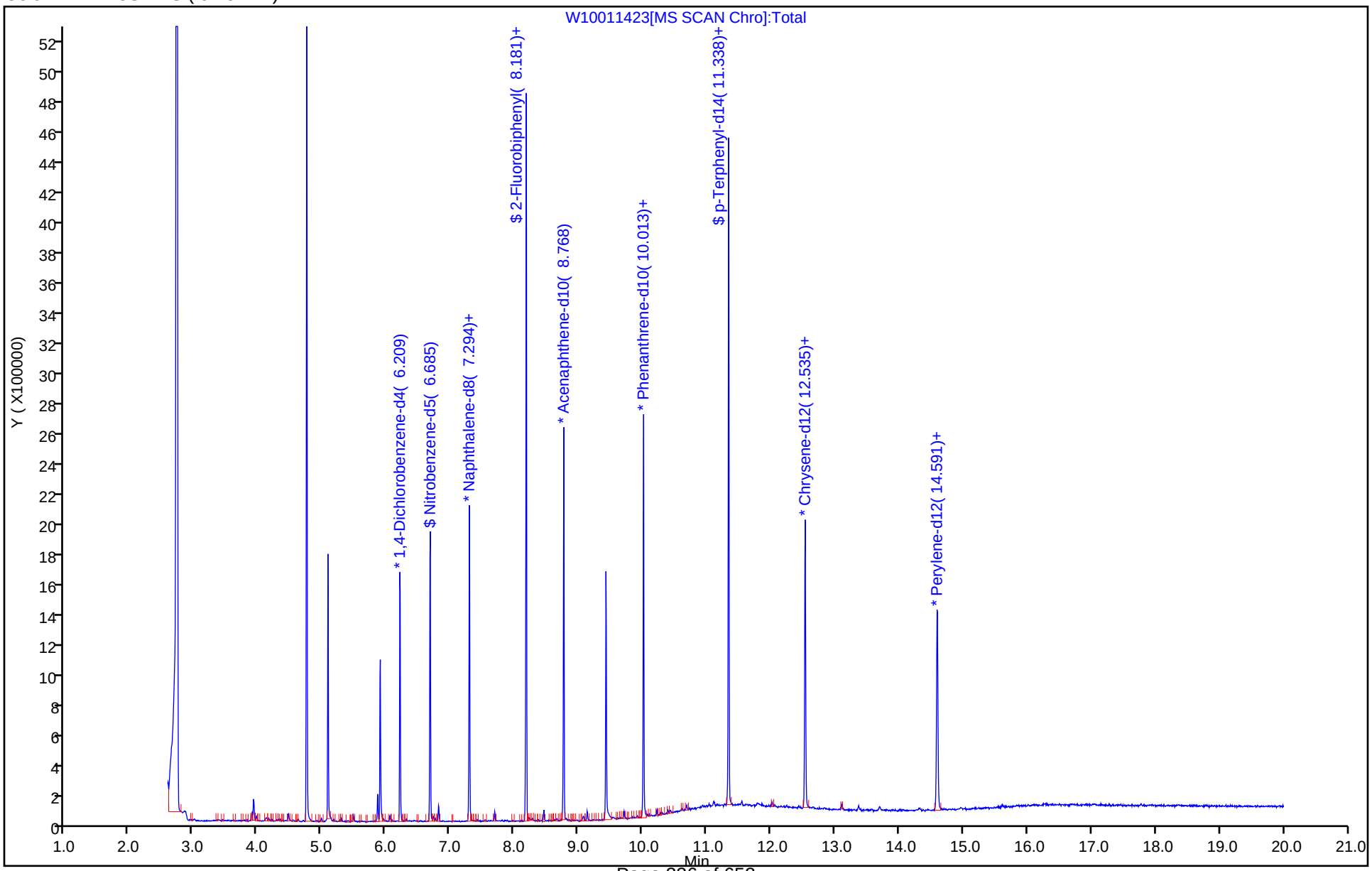
Report Date: 02-Dec-2020 12:59:34 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011423.d

Injection Date:	02-Dec-2020 00:33:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-B-4-A	Lab Sample ID:	480-178688-4	Worklist Smp#:	19
Client ID:	MW-97-14-S				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-01-17-D Lab Sample ID: 480-178688-5

Matrix: Water Lab File ID: W10011424.d

Analysis Method: 8270D Date Collected: 11/24/2020 10:26

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 01:01

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.: 561494 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	92		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	88		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	88		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011424.d
Lims ID: 480-178688-B-5-A
Client ID: MW-01-17-D
Sample Type: Client
Inject. Date: 02-Dec-2020 01:01:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-020
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 13:00:23 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 13:00:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.215	6.215	0.000	93	249279	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	884985	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	495760	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	870886	4.00	
* 5 Chrysene-d12	240	12.534	12.540	-0.006	99	739502	4.00	
* 6 Perylene-d12	264	14.591	14.597	-0.006	98	718363	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	500030	7.05	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1263719	7.33	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1360834	7.03	
76 Naphthalene	128	7.315	7.310	0.000	94	32745	0.1428	
107 Acenaphthylene	152		8.656				ND	
109 Acenaphthene	153		8.795				ND	
123 Fluorene	166		9.228				ND	
149 Phenanthrene	178	10.029	10.034	-0.005	90	3960	0.0165	
150 Anthracene	178		10.077				ND	
161 Fluoranthene	202	11.033	11.033	0.000	59	2478	0.009739	
165 Pyrene	202		11.242				ND	U
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00205	Amount Added:	20.00	Units: uL	Run Reagent

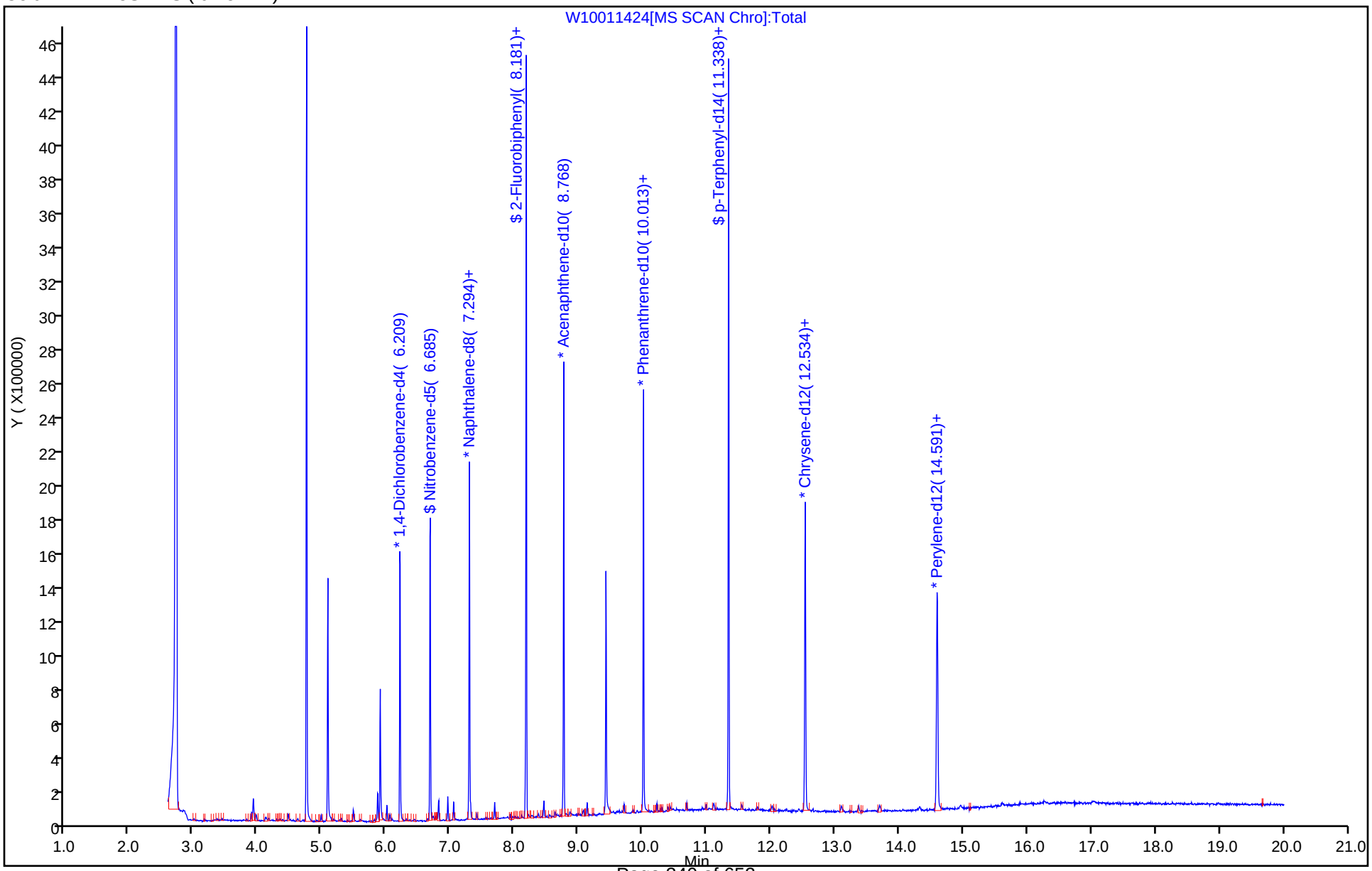
Report Date: 02-Dec-2020 13:00:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011424.d

Injection Date:	02-Dec-2020 01:01:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-B-5-A	Lab Sample ID:	480-178688-5	Worklist Smp#:	20
Client ID:	MW-01-17-D				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



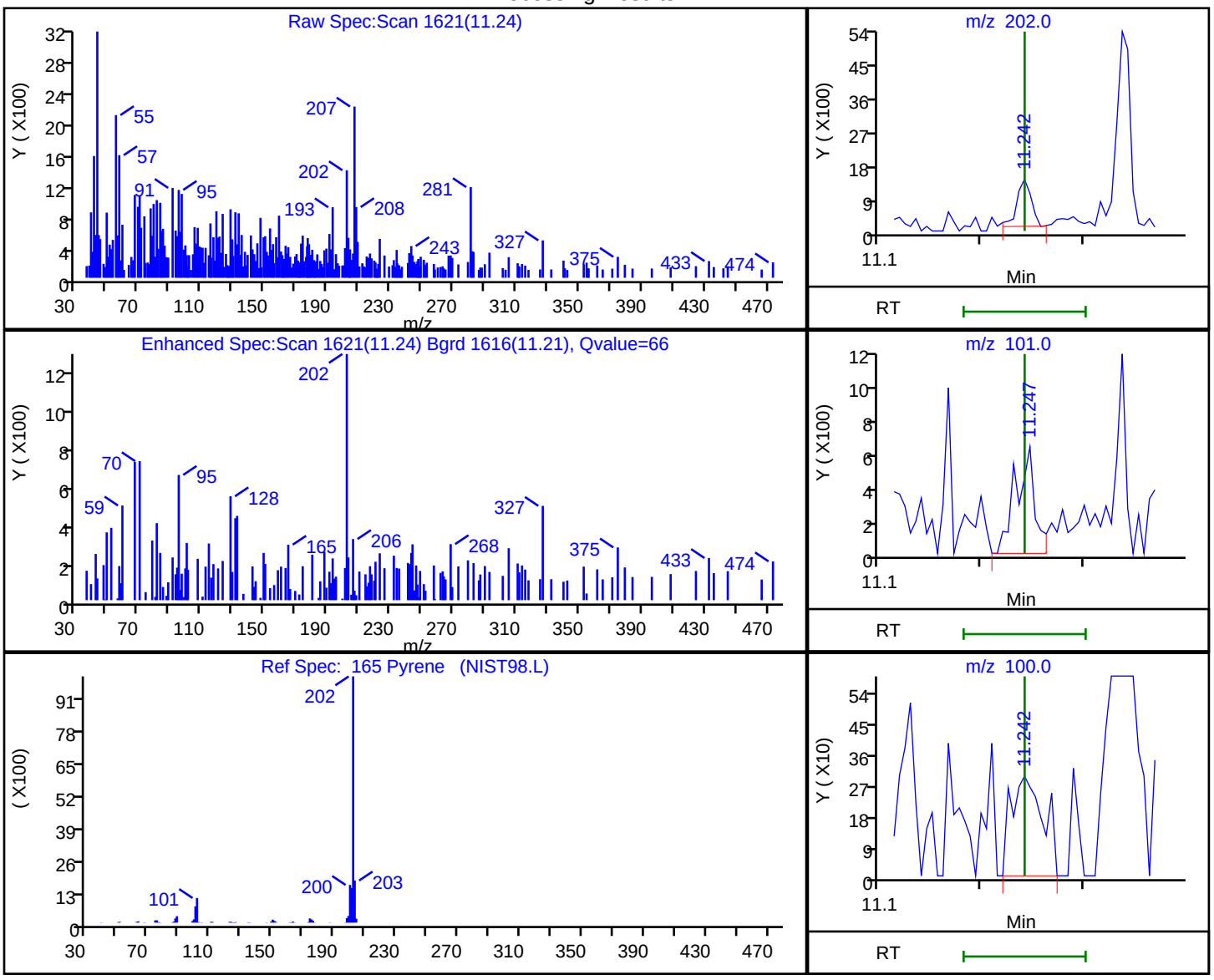
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011424.d		
Injection Date:	02-Dec-2020 01:01:30	Instrument ID:	HP5973W
Lims ID:	480-178688-B-5-A	Lab Sample ID:	480-178688-5
Client ID:	MW-01-17-D		
Operator ID:	PJQ	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

165 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.24	202.00	1241	0.005401
11.25	101.00	834	
11.24	100.00	643	

Reviewer: quirkp, 02-Dec-2020 13:00:01

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: DUP112320 Lab Sample ID: 480-178688-6

Matrix: Water Lab File ID: W10011425.d

Analysis Method: 8270D Date Collected: 11/23/2020 00:00

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 01:30

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.: 561494 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	101		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	96		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	93		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011425.d
Lims ID: 480-178688-B-6-A
Client ID: DUP112320
Sample Type: Client
Inject. Date: 02-Dec-2020 01:30:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-021
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 13:00:23 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 13:01:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.209	6.215	-0.006	94	247152	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	857675	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	483152	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	850272	4.00	
* 5 Chrysene-d12	240	12.535	12.540	-0.005	99	747963	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	709843	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	526947	7.66	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1361503	8.10	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1452029	7.41	
76 Naphthalene	128	7.315	7.310	0.000	88	7345	0.0330	
107 Acenaphthylene	152		8.656				ND	
109 Acenaphthene	153		8.795				ND	
123 Fluorene	166		9.228				ND	
149 Phenanthrene	178		10.034				ND	
150 Anthracene	178		10.077				ND	
161 Fluoranthene	202	11.033	11.033	0.000	74	2673	0.0108	
165 Pyrene	202		11.242				ND	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

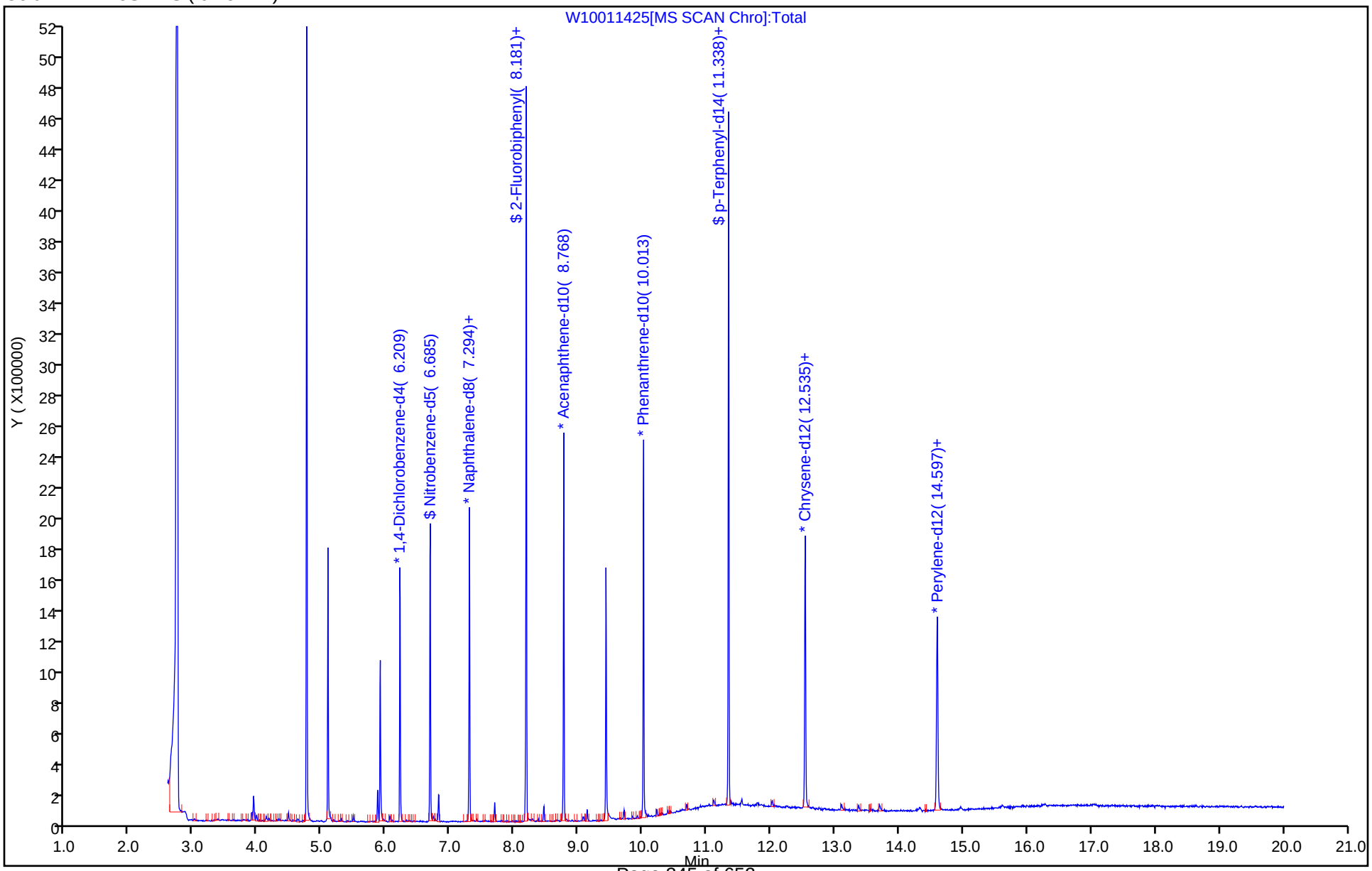
Report Date: 02-Dec-2020 13:01:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011425.d

Injection Date:	02-Dec-2020 01:30:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-B-6-A	Lab Sample ID:	480-178688-6	Worklist Smp#:	21
Client ID:	DUP112320				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: EB112420 Lab Sample ID: 480-178688-7

Matrix: Water Lab File ID: W10011426.d

Analysis Method: 8270D Date Collected: 11/24/2020 09:23

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 01:58

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.: 561494 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	101		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	100		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	112		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011426.d
Lims ID: 480-178688-B-7-A
Client ID: EB112420
Sample Type: Client
Inject. Date: 02-Dec-2020 01:58:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-022
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 13:00:23 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 13:01:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.209	6.215	-0.006	94	246816	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	876403	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	506198	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	872636	4.00	
* 5 Chrysene-d12	240	12.535	12.540	-0.005	99	733700	4.00	
* 6 Perylene-d12	264	14.591	14.597	-0.006	98	718294	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	86	561356	7.99	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1428638	8.11	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1728169	8.99	
76 Naphthalene	128		7.315				ND	
107 Acenaphthylene	152		8.656				ND	
109 Acenaphthene	153		8.795				ND	
123 Fluorene	166		9.228				ND	
149 Phenanthrene	178		10.034				ND	
150 Anthracene	178		10.077				ND	
161 Fluoranthene	202	11.033	11.033	0.000	88	2457	0.009638	
165 Pyrene	202		11.242				ND	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

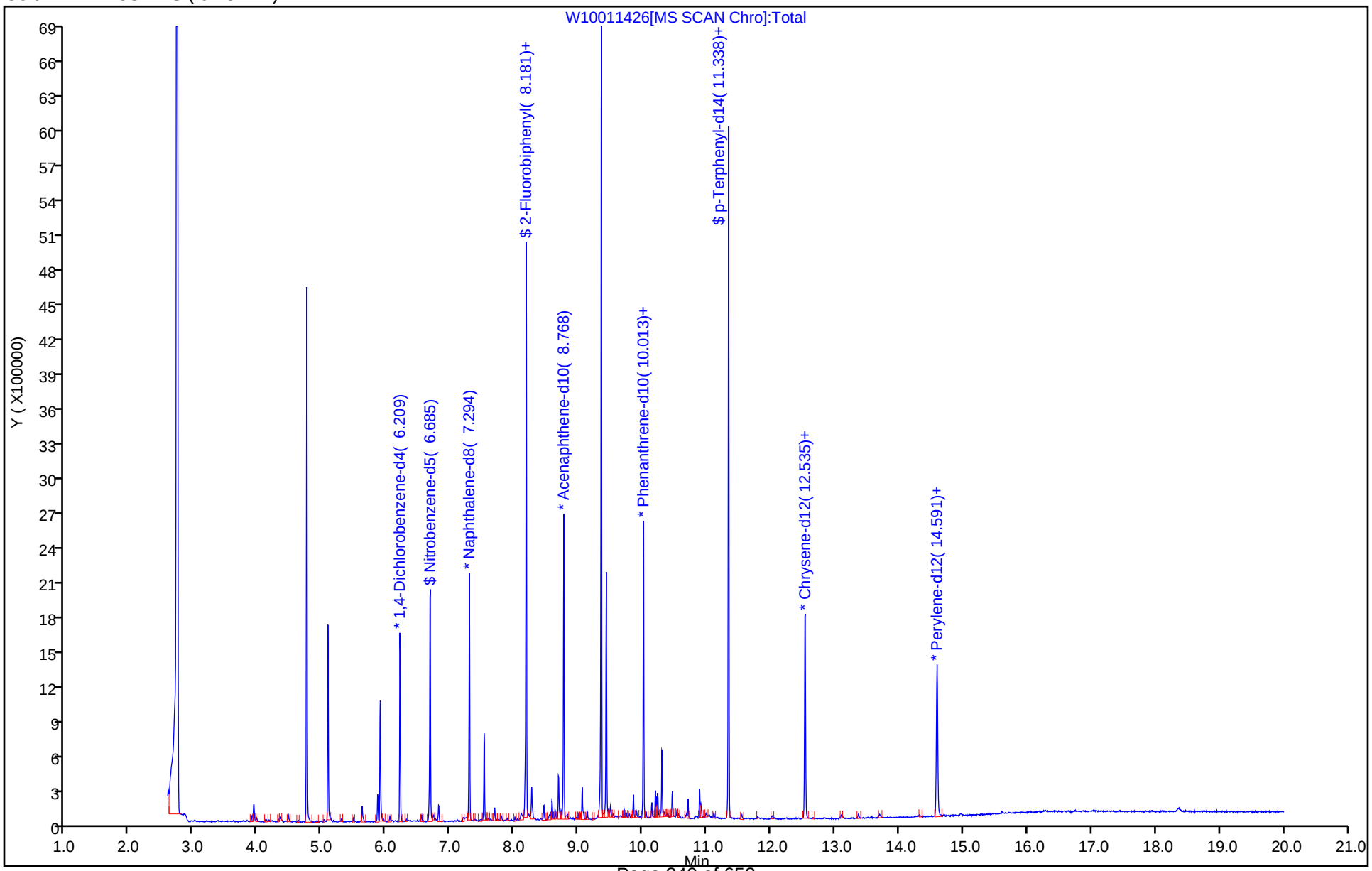
Report Date: 02-Dec-2020 13:01:31 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011426.d

Injection Date:	02-Dec-2020 01:58:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-B-7-A	Lab Sample ID:	480-178688-7	Worklist Smp#:	22
Client ID:	EB112420				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: NMW-01 Lab Sample ID: 480-178688-8

Matrix: Water Lab File ID: W10011427.d

Analysis Method: 8270D Date Collected: 11/24/2020 12:57

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 02:27

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 561494 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	85		25	2.1
208-96-8	Acenaphthylene	ND		25	1.9
120-12-7	Anthracene	ND		25	1.4
56-55-3	Benzo[a]anthracene	ND		25	1.8
50-32-8	Benzo[a]pyrene	ND		25	2.4
205-99-2	Benzo[b]fluoranthene	ND		25	1.7
191-24-2	Benzo[g,h,i]perylene	ND		25	1.8
207-08-9	Benzo[k]fluoranthene	ND		25	3.7
218-01-9	Chrysene	ND		25	1.7
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
206-44-0	Fluoranthene	ND		25	2.0
86-73-7	Fluorene	20	J	25	1.8
193-39-5	Indeno[1,2,3-cd]pyrene	ND		25	2.4
91-20-3	Naphthalene	11	J	25	3.8
85-01-8	Phenanthrene	3.3	J	25	2.2
129-00-0	Pyrene	1.8	J	25	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	81		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	74		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	70		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d
Lims ID: 480-178688-A-8-A
Client ID: MW97-7
Sample Type: Client
Inject. Date: 02-Dec-2020 02:27:30 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 480-0095356-023
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 13:00:23 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 13:02:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.209	6.215	-0.006	94	256995	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	918731	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	526406	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	926368	4.00	
* 5 Chrysene-d12	240	12.535	12.540	-0.005	99	799169	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	788275	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	86	84585	1.18	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	237245	1.30	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	233169	1.11	
76 Naphthalene	128	7.315	7.310	0.000	95	128252	0.5387	
107 Acenaphthylene	152	8.651	8.656	-0.005	89	17798	0.0802	
109 Acenaphthene	153	8.795	8.795	0.000	93	649437	4.23	
123 Fluorene	166	9.222	9.228	-0.006	94	174839	1.02	
149 Phenanthrene	178	10.029	10.034	-0.005	96	42474	0.1661	
150 Anthracene	178	10.072	10.077	-0.005	94	12985	0.0505	
161 Fluoranthene	202	11.033	11.033	0.000	95	21466	0.0793	
165 Pyrene	202	11.242	11.237	0.000	98	22862	0.0921	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228		12.572				ND	
186 Benzo[b]fluoranthene	252		14.014				ND	
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276		16.242				ND	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend
Processing Flags

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

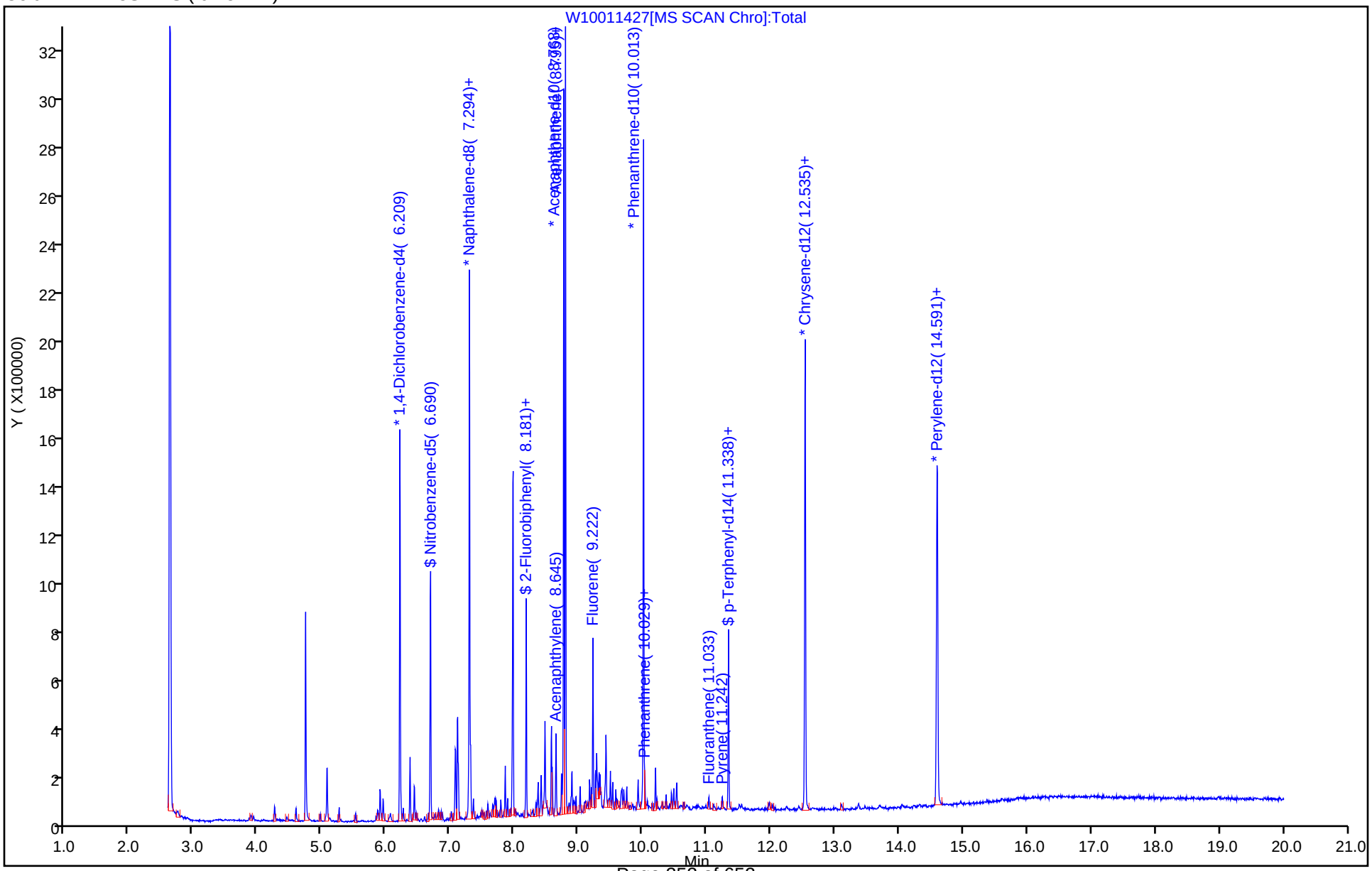
Report Date: 02-Dec-2020 13:02:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d

Injection Date:	02-Dec-2020 02:27:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-A-8-A	Lab Sample ID:	480-178688-8	Worklist Smp#:	23
Client ID:	MW97-7				
Injection Vol:	2.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	23
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



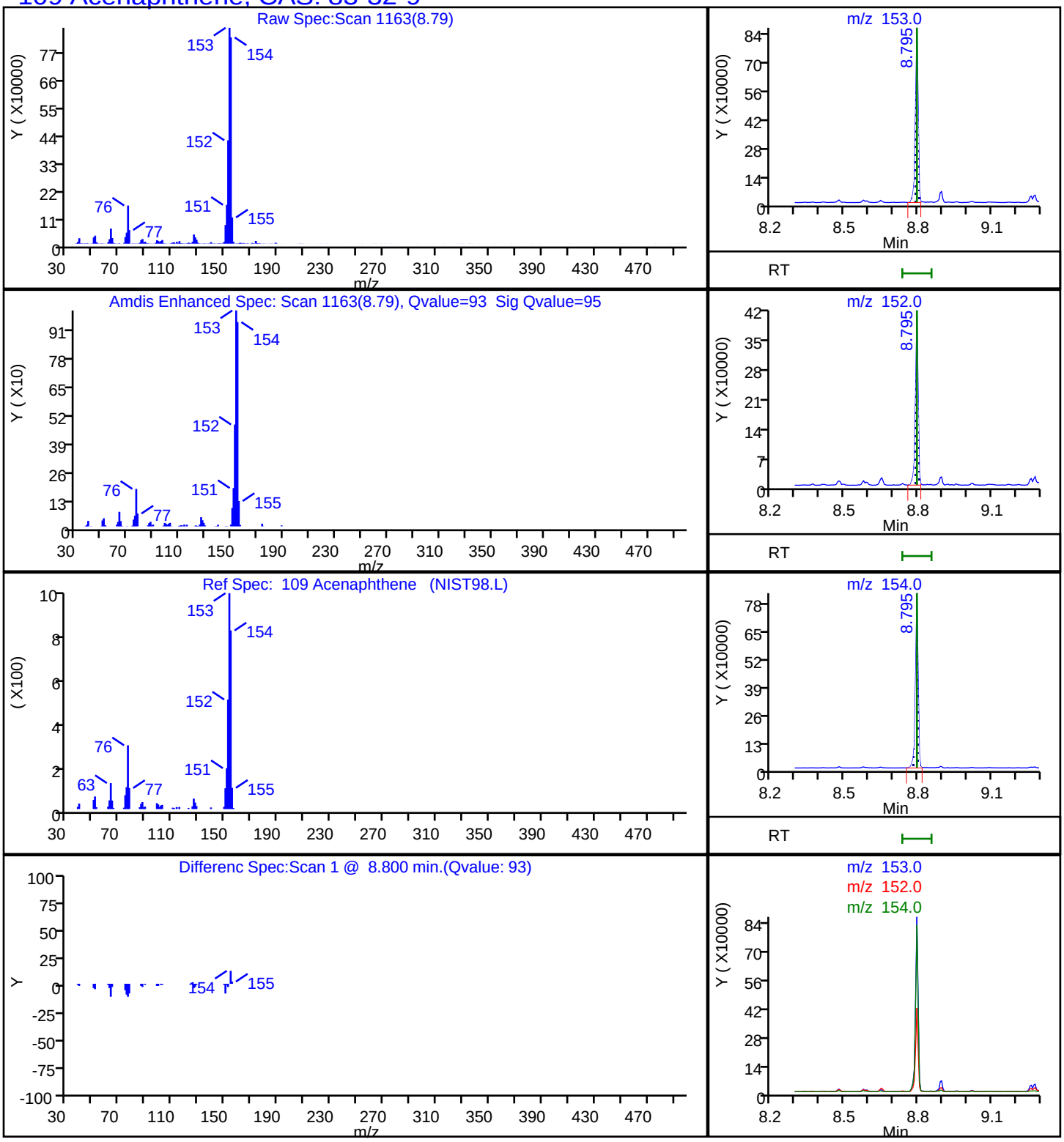
Report Date: 02-Dec-2020 13:02:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d

Injection Date:	02-Dec-2020 02:27:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-8-A	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

109 Acenaphthene, CAS: 83-32-9



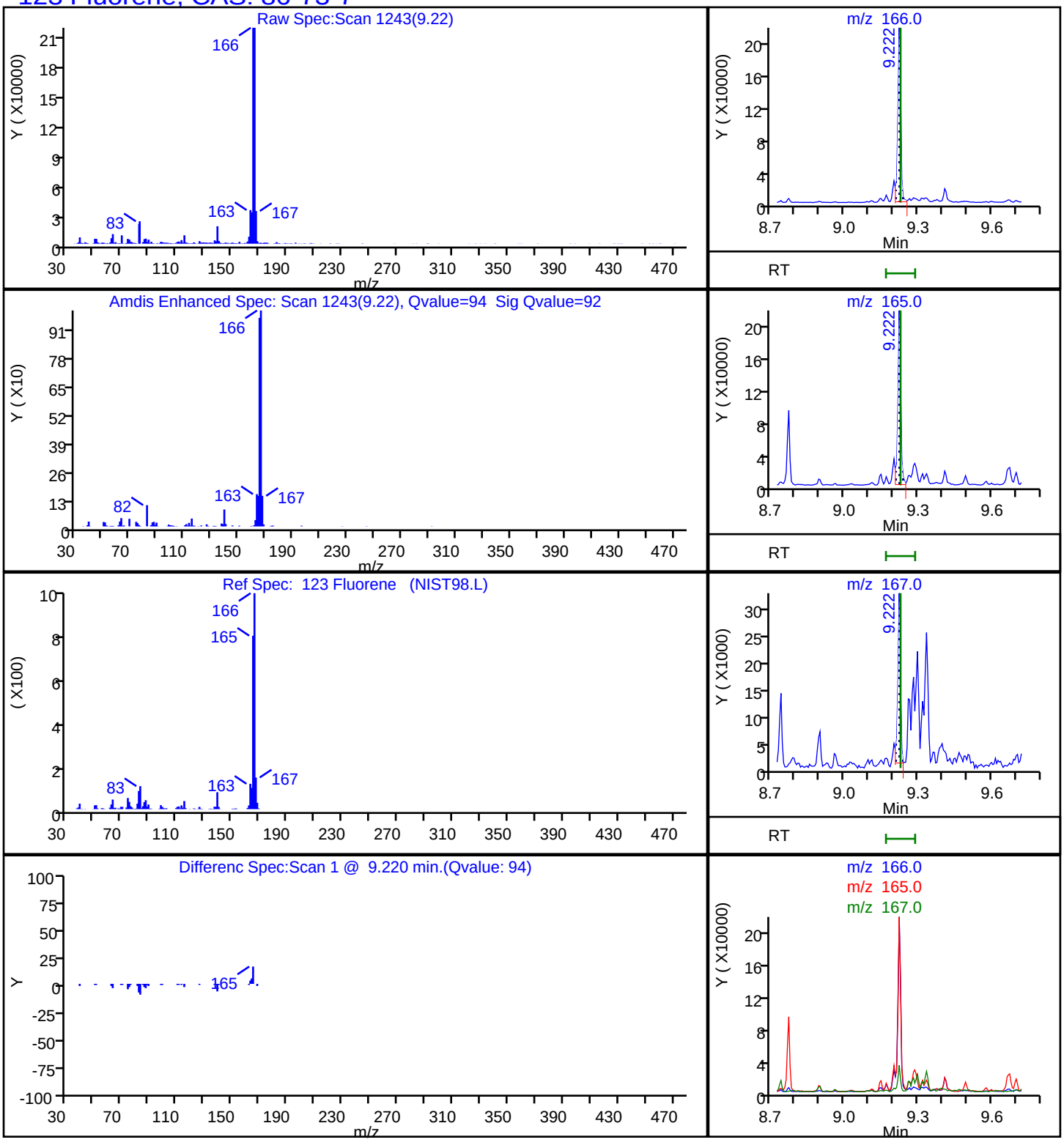
Report Date: 02-Dec-2020 13:02:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d

Injection Date:	02-Dec-2020 02:27:30	Instrument ID:	HP5973W
Lims ID:	480-178688-A-8-A	Lab Sample ID:	480-178688-8
Client ID:	MW97-7		
Operator ID:	PJQ	ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

123 Fluorene, CAS: 86-73-7



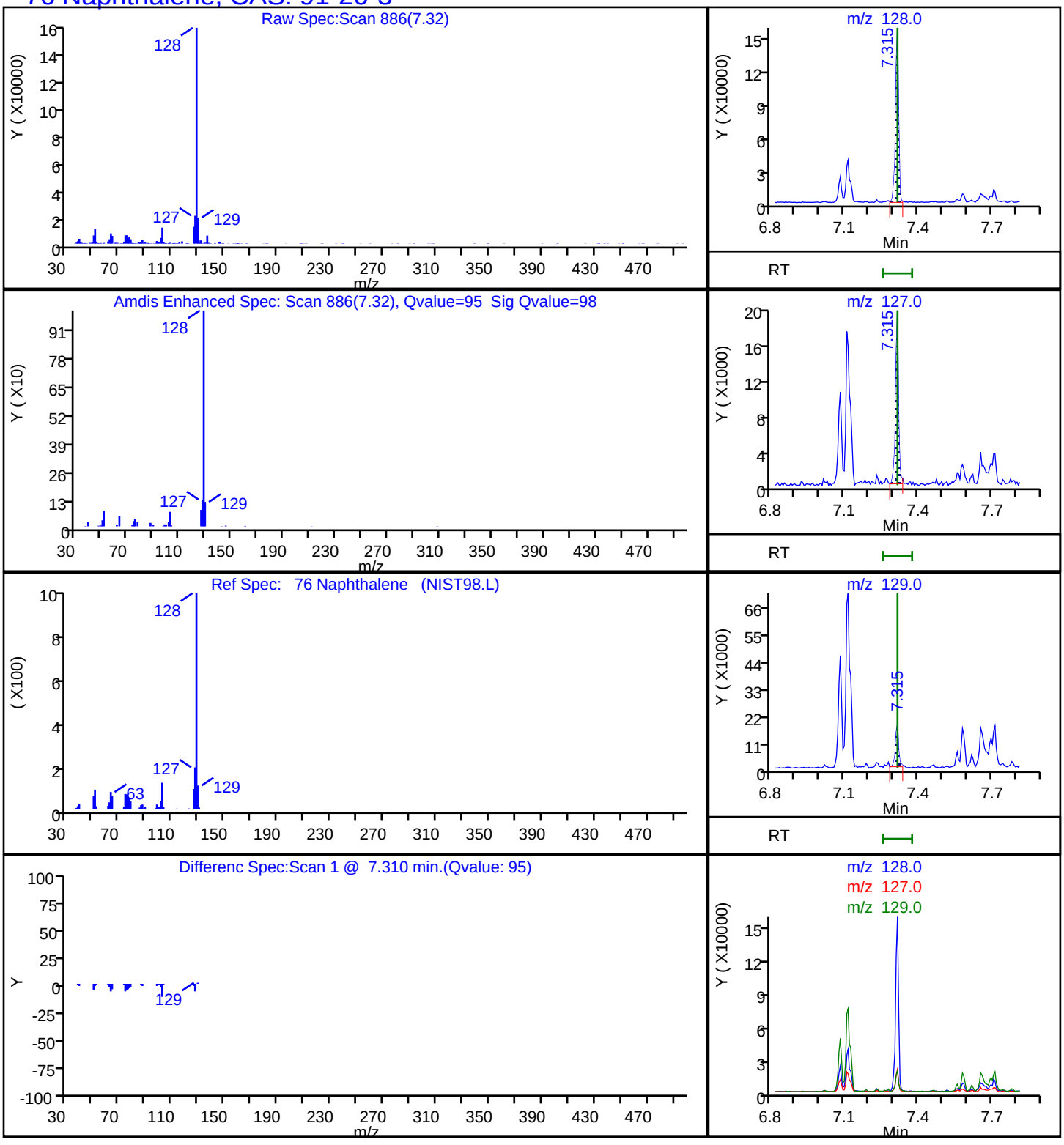
Report Date: 02-Dec-2020 13:02:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d

Injection Date:	02-Dec-2020 02:27:30	Instrument ID:	HP5973W
Lims ID:	480-178688-A-8-A	Lab Sample ID:	480-178688-8
Client ID:	MW97-7		
Operator ID:	PJQ	ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	2.0 ul	Dil. Factor:	5.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

76 Naphthalene, CAS: 91-20-3



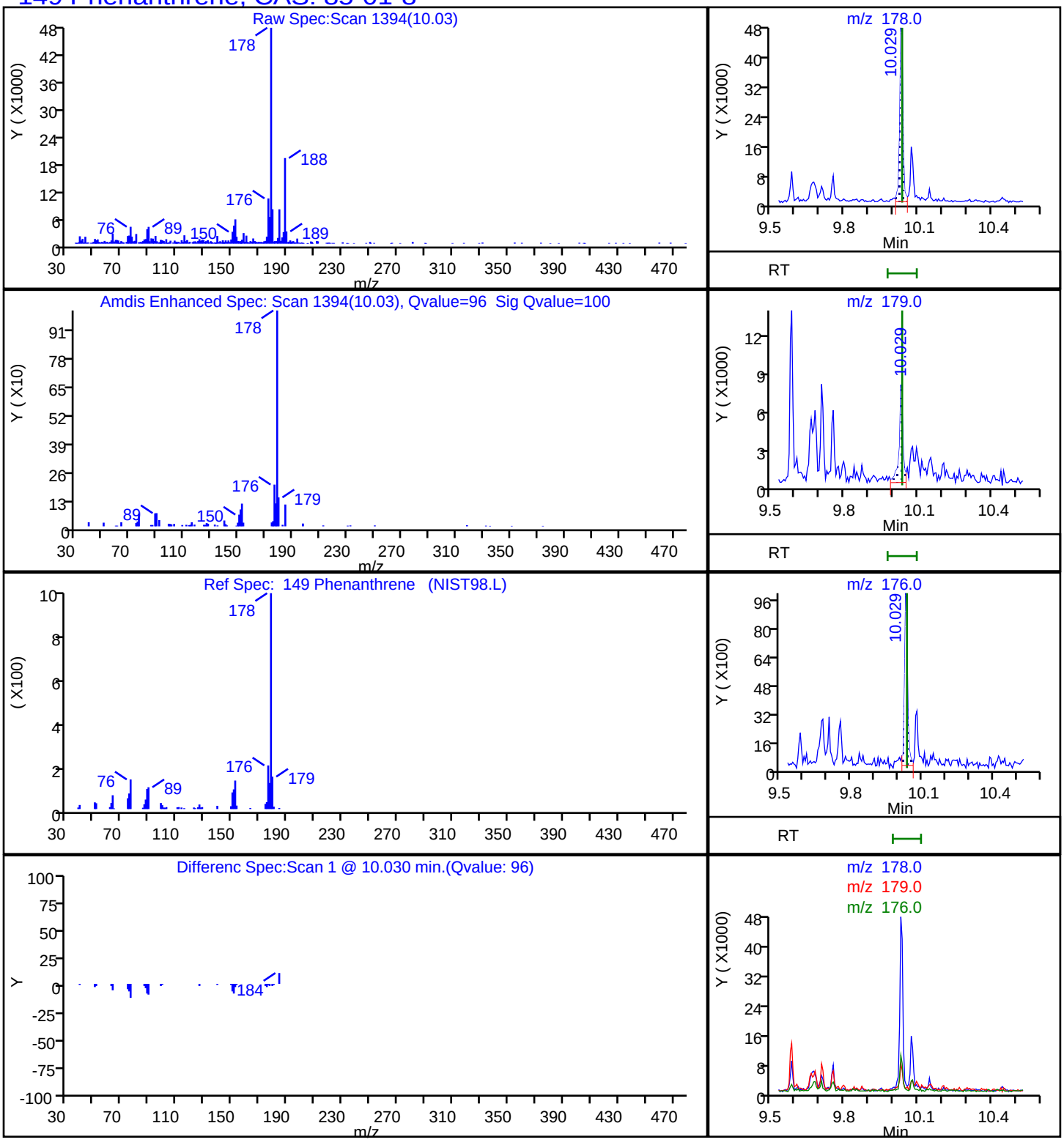
Report Date: 02-Dec-2020 13:02:04 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d

Injection Date:	02-Dec-2020 02:27:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-8-A	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

149 Phenanthrene, CAS: 85-01-8



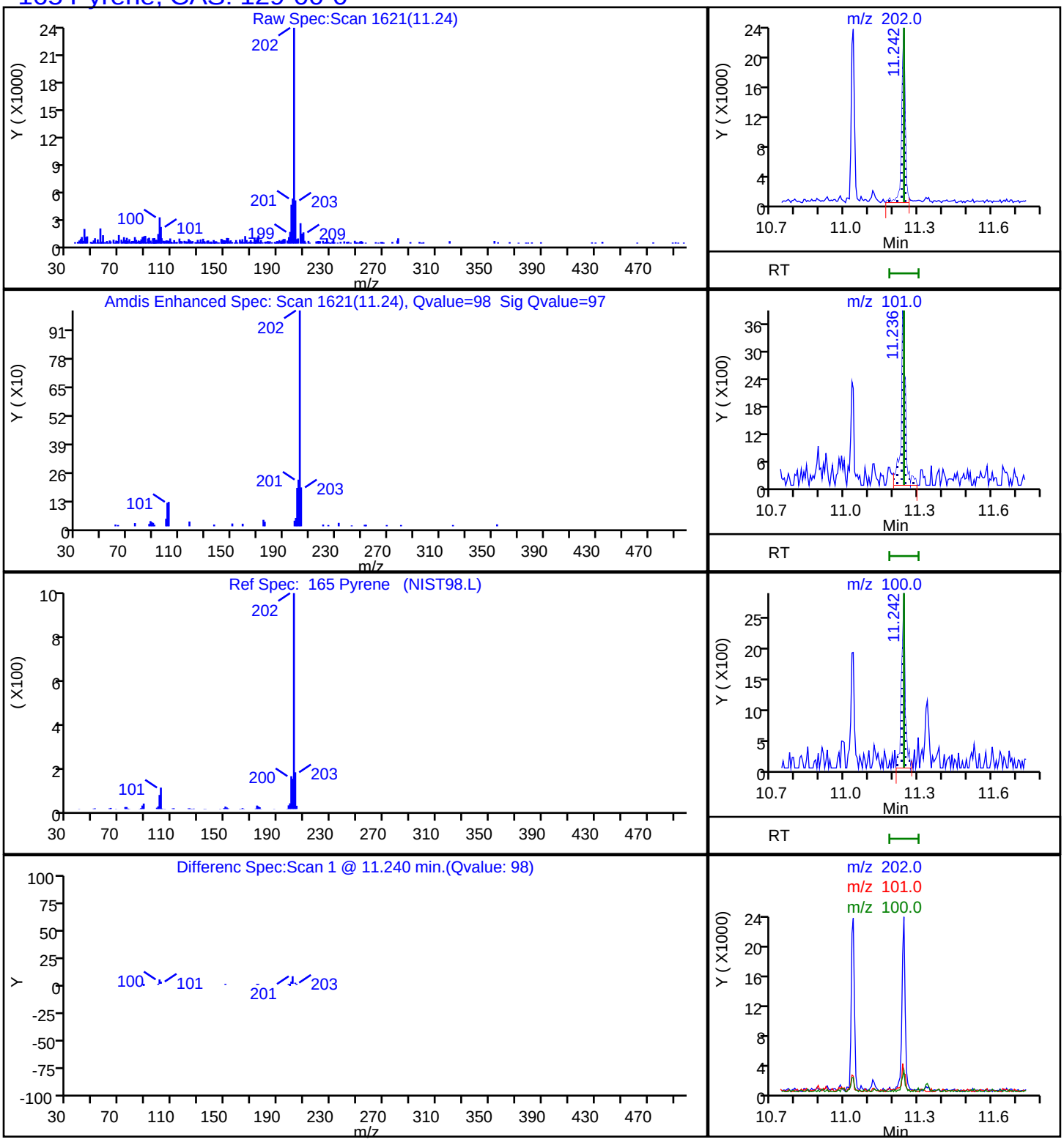
Report Date: 02-Dec-2020 13:02:05 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011427.d

Injection Date:	02-Dec-2020 02:27:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-8-A	Lab Sample ID:	480-178688-8		
Client ID:	MW97-7				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-01-07-R Lab Sample ID: 480-178688-9

Matrix: Water Lab File ID: W10011428.d

Analysis Method: 8270D Date Collected: 11/24/2020 12:24

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/02/2020 02:55

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.: 561494 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	83		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	95		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011428.d
Lims ID: 480-178688-A-9-A
Client ID: PZ-03-01-D
Sample Type: Client
Inject. Date: 02-Dec-2020 02:55:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-024
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 13:02:44 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 13:02:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.215	6.215	0.000	94	250068	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	894950	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	507825	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	889777	4.00	
* 5 Chrysene-d12	240	12.534	12.540	-0.006	99	753976	4.00	
* 6 Perylene-d12	264	14.591	14.597	-0.006	98	731592	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	450973	6.29	
$ 10 2-Fluorobiphenyl	172	8.181	8.186	-0.005	99	1178389	6.67	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1502508	7.61	
76 Naphthalene	128	7.315	7.310	0.000	91	4586	0.0198	
107 Acenaphthylene	152		8.656				ND	
109 Acenaphthene	153		8.795				ND	
123 Fluorene	166		9.228				ND	
149 Phenanthrene	178	10.034	10.034	0.000	66	6714	0.0273	
150 Anthracene	178		10.077				ND	
161 Fluoranthene	202	11.033	11.033	0.000	80	3433	0.0132	
165 Pyrene	202	11.242	11.237	0.000	73	2367	0.0101	
179 Benzo[a]anthracene	228		12.524				ND	
181 Chrysene	228	12.567	12.567	-0.005	84	2446	0.0105	
186 Benzo[b]fluoranthene	252		14.014				ND	U
187 Benzo[k]fluoranthene	252		14.052				ND	
189 Benzo[a]pyrene	252		14.511				ND	
193 Indeno[1,2,3-cd]pyrene	276	16.242	16.236	0.000	64	2680	0.0375	
194 Dibenz(a,h)anthracene	278		16.247				ND	
195 Benzo[g,h,i]perylene	276		16.686				ND	

QC Flag Legend

Processing Flags

Review Flags
U - Marked Undetected

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

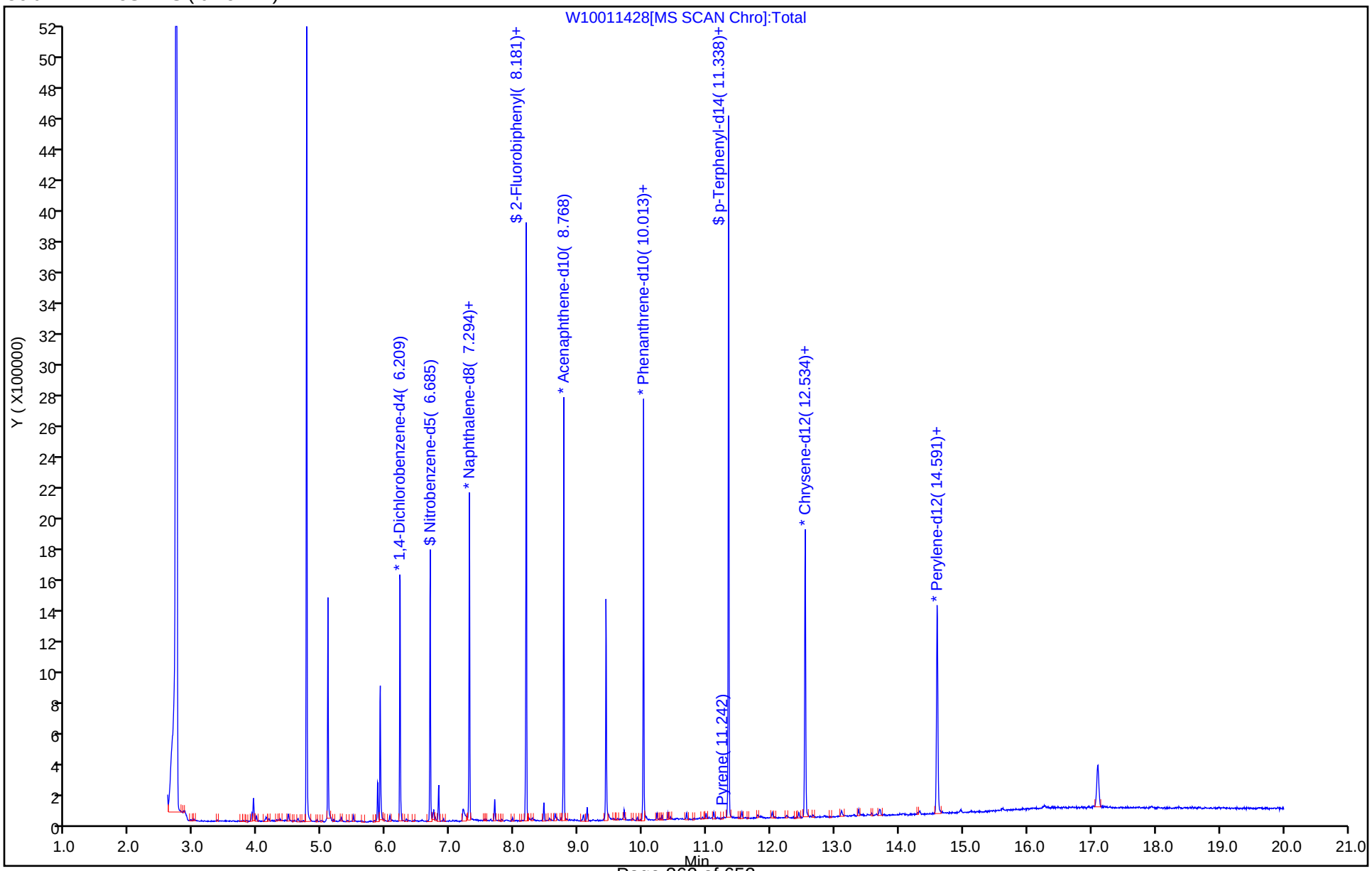
Report Date: 02-Dec-2020 13:02:44 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011428.d

Injection Date:	02-Dec-2020 02:55:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-A-9-A	Lab Sample ID:	480-178688-9	Worklist Smp#:	24
Client ID:	PZ-03-01-D				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



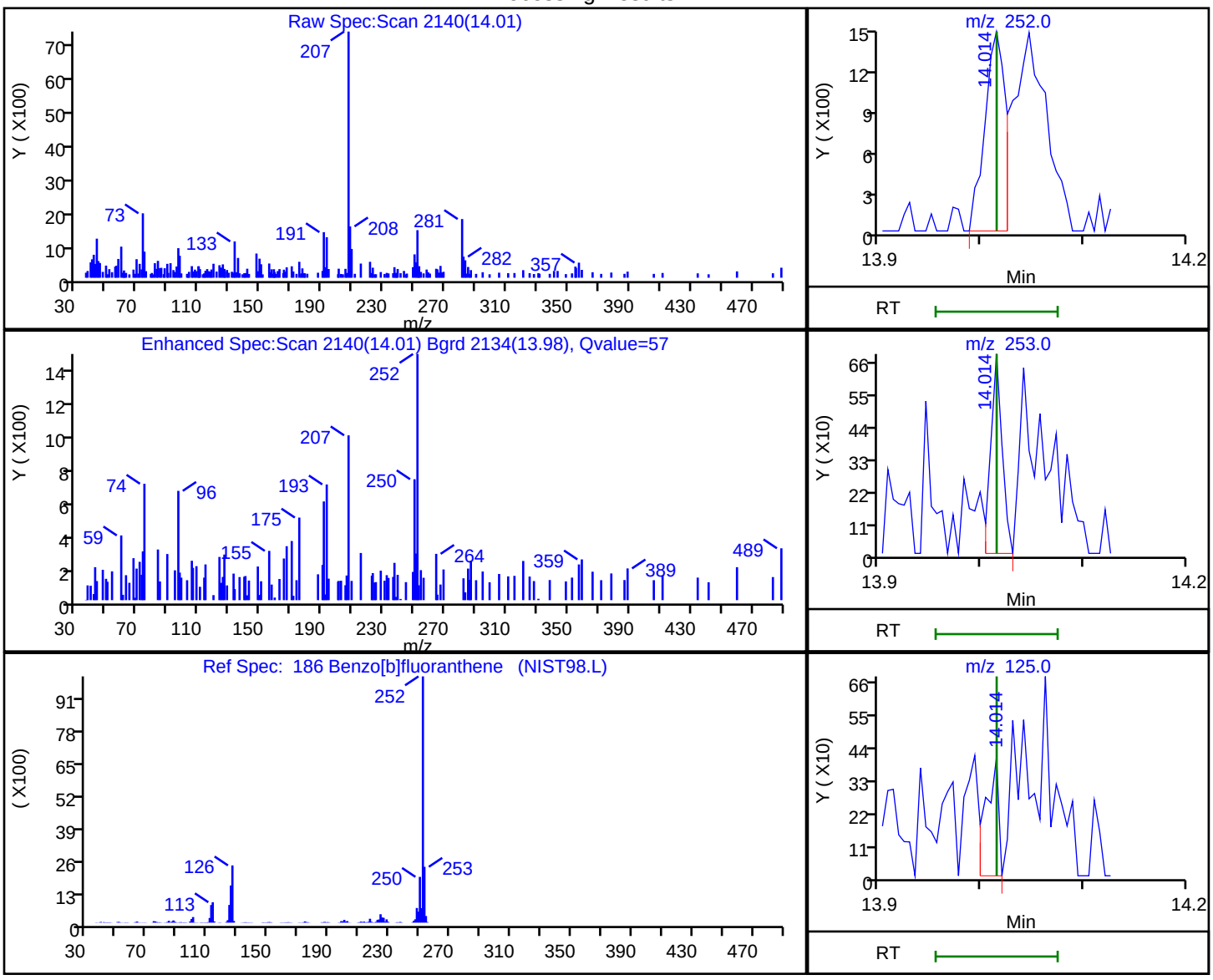
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011428.d				
Injection Date:	02-Dec-2020 02:55:30	Instrument ID:	HP5973W		
Lims ID:	480-178688-A-9-A	Lab Sample ID:	480-178688-9		
Client ID:	PZ-03-01-D				
Operator ID:	PJQ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

186 Benzo[b]fluoranthene, CAS: 205-99-2

Processing Results



RT	Mass	Response	Amount
14.01	252.00	1985	0.029224
14.01	253.00	532	
14.01	125.00	346	

Reviewer: quirkp, 02-Dec-2020 13:02:29

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-560743/3	W10011250.d
Level 2	IC 480-560743/4	W10011251.d
Level 3	IC 480-560743/5	W10011252.d
Level 4	IC 480-560743/6	W10011253.d
Level 5	ICIS 480-560743/7	W10011254.d
Level 6	IC 480-560743/8	W10011255.d
Level 7	IC 480-560743/9	W10011256.d
Level 8	IC 480-560743/10	W10011257.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	0.5058	0.5171 0.5484	0.5230 0.5435	0.5520	0.4879	Ave		0.5254			0.0100	4.6		20.0			
N-Nitrosodimethylamine	0.6196	0.6339 0.6672	0.5809 0.6720	0.6468	0.5760	Ave		0.6280			0.0100	6.1		20.0			
Pyridine	0.7774	0.6597 0.8607	0.7010 0.8488	0.7352	0.7216	Lin2	-0.169	0.8064			0.0100	6.1			0.9950		0.9900
Benzaldehyde	0.9093	0.9447 0.8424	0.8844 0.7256	0.9390	0.9413	Ave		0.8838			0.0100	8.9		20.0			
Phenol	1.6074	1.5168 1.4659	1.5105 1.4220	1.5544	1.5583	Ave		1.5193			0.8000	4.1		20.0			
Aniline	1.7532	1.6783 1.8107	1.6198 1.5443	1.6613	1.7254	Ave		1.6847			0.0100	5.2		20.0			
Bis(2-chloroethyl)ether	1.2103	1.2915 1.1891	1.1764 1.0396	1.1769	1.1821	Ave		1.1808			0.7000	6.3		20.0			
2-Chlorophenol	1.3602	1.2740 1.3364	1.3017 1.3575	1.2778	1.3076	Ave		1.3165			0.8000	2.7		20.0			
n-Decane	1.2647	1.3017 1.2263	1.1964 1.2583	1.1847	1.2313	Ave		1.2376			0.0100	3.3		20.0			
1,3-Dichlorobenzene	1.5572	1.6144 1.5278	1.5098 1.5105	1.5356	1.5578	Ave		1.5447			0.0100	2.4		20.0			
1,4-Dichlorobenzene	1.5688	1.6293 1.5258	1.6127 1.5225	1.5677	1.5995	Ave		1.5752			0.0100	2.6		20.0			
Benzyl alcohol	0.7436	0.4474 0.7259	0.5774 0.7426	0.6339	0.7072	Lin2	-0.153	0.7419			0.0100	2.6			0.9990		0.9900
1,2-Dichlorobenzene	1.4695	1.3544 1.4300	1.4807 1.4167	1.4740	1.4964	Ave		1.4460			0.0100	3.4		20.0			
2-Methylphenol	1.1807	0.9768 1.1068	1.0769 1.0578	1.1106	1.1586	Ave		1.0954			0.7000	6.2		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	1.6364	1.4995 1.4541	1.6426 1.3152	1.6294	1.7096	Ave		1.5553			0.0100	8.9		20.0			
Indene	0.5805	0.6502 +++++	0.7371 +++++	0.6380	0.6223	Ave		0.6456			0.0100	8.9		20.0			
N-Nitrosodi-n-propylamine	0.7298	0.5361 0.6757	0.5856 0.6846	0.6258	0.7135	Lin2	-0.091	0.7023			0.5000	4.5			0.9970		0.9900
4-Methylphenol	1.1978	1.0340 1.1002	1.0154 1.0711	1.0872	1.1544	Ave		1.0943			0.6000	5.9		20.0			
Acetophenone	1.7157	1.4550 1.5740	1.5039 1.5530	1.5814	1.6647	Ave		1.5782			0.0100	5.7		20.0			
Hexachloroethane	0.5533	0.5047 0.5296	0.5145 0.5287	0.5402	0.5557	Ave		0.5324			0.3000	3.6		20.0			
Nitrobenzene	0.3600	0.3316 0.2891	0.3269 0.3331	0.3231	0.3265	Ave		0.3272			0.2000	6.4		20.0			
Isophorone	0.6034	0.4929 0.5233	0.5245 0.5741	0.5336	0.5768	Ave		0.5469			0.4000	7.1		20.0			
2-Nitrophenol	0.2038	0.1592 0.1736	0.1732 0.2034	0.1732	0.1858	Lin2	-0.018	0.1919			0.1000	6.4			0.9950		0.9900
2,4-Dimethylphenol	0.3453	0.3095 0.3008	0.3325 0.3427	0.3299	0.3331	Ave		0.3277			0.2000	5.1		20.0			
Bis(2-chloroethoxy)methane	0.3630	0.3270 0.3091	0.3451 0.3456	0.3427	0.3591	Ave		0.3417			0.3000	5.4		20.0			
Benzoic acid	0.2065	0.0982 0.1934	0.1348 0.2312	0.1590	0.1930	Lin2	-0.302	0.2085			0.0100	8.3			0.9910		0.9900
2,4-Dichlorophenol	0.2923	0.2488 0.2652	0.2669 0.3054	0.2754	0.2918	Ave		0.2780			0.2000	7.0		20.0			
1,2,4-Trichlorobenzene	0.3343	0.3427 0.3296	0.3433 0.3514	0.3306	0.3432	Ave		0.3393			0.0100	2.4		20.0			
Naphthalene	1.1105 1.0093	1.0408 0.9831	1.0523 1.0084	1.0421	1.0452	Ave		1.0365			0.7000	3.7		20.0			
4-Chloroaniline	0.4123	0.3449 0.3839	0.3857 0.4167	0.3872	0.3962	Ave		0.3896			0.0100	6.1		20.0			
2,6-Dichlorophenol	0.2905	0.2757 0.2884	0.2689 0.2994	0.2897	0.2881	Ave		0.2858			0.0100	3.6		20.0			
Hexachlorobutadiene	0.2175	0.2102 0.2162	0.2139 0.2658	0.2241	0.2082	Ave		0.2223			0.0100	8.9		20.0			
Caprolactam	0.0985	0.0702 0.1027	0.0819 0.1210	0.0931	0.1015	Lin2	-0.041	0.1072			0.0100	7.5			0.9930		0.9900
4-Chloro-3-methylphenol	0.2572	0.2291 0.2641	0.2422 +++++	0.2349	0.2580	Lin2	-0.016	0.2581			0.2000	3.4			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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	0.7496 0.6788	0.6906 0.6583	0.7025 0.7899	0.6891	0.7200	Ave		0.7098			0.4000	6.0		20.0			
1-Methylnaphthalene	0.6568 0.6273	0.6463 0.5588	0.6235 0.7307	0.6356	0.6623	Ave		0.6427			0.0100	7.4		20.0			
Hexachlorocyclopentadiene	0.3806	0.2345 0.3680	0.2868 0.4253	0.3338	0.3752	Lin2	-0.086	0.3927			0.0500	5.8			0.9960		0.9900
1,2,4,5-Tetrachlorobenzene	0.6281	0.6189 0.5875	0.6448 0.6798	0.6540	0.6766	Ave		0.6414			0.0100	5.1		20.0			
2,4,6-Trichlorophenol	0.3796	0.3120 0.3707	0.3385 0.4369	0.3712	0.3960	Ave		0.3721			0.2000	10.7		20.0			
2,4,5-Trichlorophenol	0.3868	0.3398 0.4138	0.3666 0.4750	0.3845	0.4415	Lin2	-0.050	0.4299			0.2000	7.4			0.9930		0.9900
Biphenyl	1.4069	1.4432 1.6307	1.5129 1.5582	1.5273	1.6558	Ave		1.5336			0.0100	5.9		20.0			
2-Chloronaphthalene	1.0594	1.1288 1.2630	1.1647 1.2305	1.1480	1.2325	Ave		1.1753			0.8000	6.1		20.0			
2-Nitroaniline	0.2949	0.2111 0.3203	0.2312 0.3246	0.2442	0.2877	Lin2	-0.056	0.3053			0.0100	7.6			0.9930		0.9900
Dimethyl phthalate	1.2731	1.1810 1.3909	1.2734 1.3527	1.2945	1.3495	Ave		1.3022			0.0100	5.3		20.0			
1,3-Dinitrobenzene	0.1228	0.0872 0.1261	0.0924 0.1488	0.1185	0.1236	Lin2	-0.026	0.1319			0.0100	8.5			0.9910		0.9900
2,6-Dinitrotoluene	0.3125	0.2689 0.3401	0.2874 0.3455	0.3150	0.3367	Lin2	-0.037	0.3362			0.2000	3.8			0.9980		0.9900
Acenaphthylene	1.5833 1.6393	1.6090 1.7259	1.6554 1.7449	1.7077	1.8247	Ave		1.6863			0.9000	4.7		20.0			
3-Nitroaniline	0.3404	0.2538 0.3270	0.2888 0.3334	0.2979	0.3417	Lin2	-0.044	0.3370			0.0100	3.5			0.9980		0.9900
Acenaphthene	1.1795 1.1425	1.1878 1.1527	1.1904 1.0867	1.1782	1.2183	Ave		1.1670			0.9000	3.4		20.0			
2,4-Dinitrophenol	0.1702	+++++ 0.1851	0.0549 0.1879	0.0913	0.1443	Lin1	-0.337	0.1957			0.0100	9.2			0.9980		0.9900
4-Nitrophenol	0.1680	0.0765 0.1766	0.0932 0.1811	0.1370	0.1535	Lin2	-0.110	0.1724			0.0100	8.6			0.9910		0.9900
2,4-Dinitrotoluene	0.4061	0.3258 0.3825	0.3777 0.3905	0.3824	0.3906	Lin2	-0.033	0.3984			0.2000	2.6			0.9990		0.9900
Dibenzofuran	1.7455	1.6509 1.4396	1.6755 1.4699	1.6586	1.6389	Ave		1.6113			0.8000	7.0		20.0			
2,3,4,6-Tetrachlorophenol	0.3381	0.2299 0.3045	0.2759 0.3084	0.3057	0.2876	Lin2	-0.043	0.3176			0.0100	5.0			0.9970		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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	0.6758	0.5906 0.6930	0.6205 0.5580	0.6733	0.6433	Ave		0.6364			0.0100	7.8		20.0			
Diethyl phthalate	1.3191	1.1949 1.3155	1.2534 1.1316	1.3617	1.2188	Ave		1.2564			0.0100	6.4		20.0			
4-Chlorophenyl phenyl ether	0.7234	0.6778 0.6718	0.6899 0.6162	0.6887	0.6358	Ave		0.6719			0.4000	5.3		20.0			
Fluorene	1.2121 1.4067	1.2640 1.3007	1.3549 1.2100	1.3451	1.2884	Ave		1.2977			0.9000	5.3		20.0			
4-Nitroaniline	0.3770	0.2479 0.3463	0.2820 0.3156	0.3312	0.3243	Lin2	-0.052	0.3476			0.0100	6.5			0.9950		0.9900
4,6-Dinitro-2-methylphenol	0.1448	0.0638 0.1554	0.0760 0.1342	0.0983	0.1204	Lin1	-0.115	0.1461			0.0100	13.7			0.9920		0.9900
Diphenylamine	0.6909	0.6526 0.7203	0.6280 0.6739	0.6348	0.6523	Ave		0.6647			0.0100	4.9		20.0			
N-Nitrosodiphenylamine	0.5907	0.5580 0.6159	0.5369 0.5762	0.5428	0.5577	Ave		0.5683			0.0100	4.9		20.0			
1,2-Diphenylhydrazine	1.1291	1.0305 1.1607	1.0826 1.1513	1.1341	1.0988	Ave		1.1124			0.0100	4.1		20.0			
trans-Azobenzene	0.6872	0.6304 0.7535	0.6357 0.7049	0.6201	0.6644	Ave		0.6709			0.0100	7.1		20.0			
4-Bromophenyl phenyl ether	0.2425	0.2337 0.2587	0.2293 0.2596	0.2247	0.2393	Ave		0.2411			0.1000	5.7		20.0			
Hexachlorobenzene	0.2767	0.2611 0.2684	0.2477 0.2758	0.2215	0.2362	Ave		0.2554			0.1000	8.2		20.0			
Atrazine	0.3691	0.3442 0.3403	0.3711 0.3313	0.3646	0.3575	Ave		0.3540			0.0100	4.4		20.0			
n-Octadecane	0.4216	0.3520 0.4546	0.3479 0.3975	0.3422	0.3849	Ave		0.3858			0.0100	10.9		20.0			
Pentachlorophenol	0.1477	+++++ 0.1680	0.0651 0.1595	0.0876	0.1129	Lin1	-0.267	0.1684			0.0500	12.3			0.9930		0.9900
Phenanthrene	1.1290 1.1037	1.1200 1.0787	1.1275 1.0218	1.1298	1.1209	Ave		1.1039			0.7000	3.4		20.0			
Anthracene	1.1487 1.1706	1.0739 1.1537	1.0557 1.0405	1.1165	1.1244	Ave		1.1105			0.7000	4.4		20.0			
Carbazole	0.9696	0.9612 0.9823	0.9818 0.8746	0.9434	0.9315	Ave		0.9492			0.0100	4.0		20.0			
Di-n-butyl phthalate	1.3880	1.0517 1.2178	1.0733 1.1641	1.1077	1.1367	Ave		1.1628			0.0100	9.8		20.0			
Fluoranthene	1.2570 1.1605	1.1588 1.1846	1.1715 1.2141	1.1281	1.0742	Ave		1.1686			0.6000	4.7		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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	0.4529	0.5867 0.4512	0.5624 0.5361	0.4929	0.5134	Ave		0.5137			0.0100	10.1		20.0			
Pyrene	1.1074 1.1952	1.3848 1.1411	1.3308 1.2869	1.2513	1.2452	Ave		1.2428			0.6000	7.5		20.0			
Butyl benzyl phthalate	0.5146	0.4500 0.5037	0.4686 0.5590	0.4457	0.4692	Lin2	-0.036	0.5080			0.0100	6.8			0.9940		0.9900
Bis(2-ethylhexyl) phthalate	0.8174	0.6077 0.6630	0.6521 0.8140	0.6820	0.7396	Lin2	-0.085	0.7594			0.0100	8.0			0.9920		0.9900
3,3'-Dichlorobenzidine	0.4865	0.4502 0.3866	0.4393 0.4561	0.4338	0.4476	Ave		0.4429			0.0100	6.8		20.0			
Benzo[a]anthracene	1.2154 1.2785	1.2580 1.2553	1.2924 1.2188	1.2753	1.2530	Ave		1.2558			0.8000	2.2		20.0			
Chrysene	1.2333 1.2576	1.2667 1.1897	1.2752 1.1673	1.2587	1.2228	Ave		1.2339			0.7000	3.1		20.0			
Di-n-octyl phthalate	1.1491	0.9228 1.2428	0.9691 +++++	1.0036	1.0611	Lin2	-0.132	1.1451			0.0100	6.8			0.9940		0.9900
Benzo[b]fluoranthene	0.9747 1.1289	0.9820 1.1192	1.0965 1.0653	1.1616	1.2502	Lin2	-0.022	1.1307			0.7000	6.6			0.9960		0.9900
Benzo[k]fluoranthene	1.1687 1.1156	1.1104 1.0420	1.0745 1.0708	1.1251	1.3144	Ave		1.1277			0.7000	7.5		20.0			
Benzo[a]pyrene	0.8554 1.0354	0.8598 1.0058	0.9011 1.0104	0.9130	1.0382	Lin2	-0.019	0.9814			0.7000	6.4			0.9960		0.9900
Indeno[1,2,3-cd]pyrene	1.1056 1.4517	1.0923 1.2930	1.2647 1.3984	1.2461	1.4565	Lin2	-0.036	1.3422			0.5000	8.4			0.9930		0.9900
Dibenz(a,h)anthracene	0.8860 1.2185	0.9247 1.0697	1.0859 1.1773	1.0103	1.2317	Lin2	-0.035	1.1276			0.4000	8.6			0.9930		0.9900
Benzo[g,h,i]perylene	1.0014 1.0730	0.9248 1.0326	1.0071 1.0616	0.9869	1.1322	Lin2	-0.008	1.0397			0.5000	6.1			0.9960		0.9900
2-Fluorophenol (Surr)	1.2934	1.1628 1.2798	1.1114 1.1749	1.1724	1.1885	Ave		1.1976			0.0100	5.5		20.0			
Phenol-d5 (Surr)	1.4724	1.4185 1.4171	1.3390 1.2983	1.3949	1.4290	Ave		1.3956			0.0100	4.2		20.0			
Nitrobenzene-d5 (Surr)	0.3477	0.2998 0.2883	0.3125 0.3269	0.3075	0.3275	Lin2	-0.011	0.3222			0.0100	6.2			0.9950		0.9900
2-Fluorobiphenyl	1.3196	1.3866 1.3251	1.3629 1.4553	1.4017	1.4898	Ave		1.3916			0.0100	4.6		20.0			
2,4,6-Tribromophenol (Surr)	0.1155	0.0975 0.1271	0.1010 0.1327	0.0926	0.1041	Ave		0.1101			0.0100	13.9		20.0			
p-Terphenyl-d14 (Surr)	1.1048	1.1527 0.9454	1.0661 1.0861	0.9980	0.9807	Ave		1.0477			0.0100	7.1		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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-560743/3	W10011250.d
Level 2	IC 480-560743/4	W10011251.d
Level 3	IC 480-560743/5	W10011252.d
Level 4	IC 480-560743/6	W10011253.d
Level 5	ICIS 480-560743/7	W10011254.d
Level 6	IC 480-560743/8	W10011255.d
Level 7	IC 480-560743/9	W10011256.d
Level 8	IC 480-560743/10	W10011257.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	DCBd4	Ave	289895	17439 441580	38195 577986	73569	151399	8.00	0.500 12.0	1.00 16.0	2.00	4.00
N-Nitrosodimethylamine	DCBd4	Ave	355111	21376 537209	42424 714569	86210	178754	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Pyridine	DCBd4	Lin2	891156	44494 1386104	102393 1805124	195962	447842	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Benzaldehyde	DCBd4	Ave	1042374	63713 1356639	129184 1543197	250289	584207	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Phenol	DCBd4	Ave	921290	51150 1180334	110320 1512142	207172	483585	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Aniline	DCBd4	Ave	1004832	56596 1457925	118297 1642145	221414	535432	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd4	Ave	693674	43554 957438	85915 1105517	156853	366824	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Chlorophenol	DCBd4	Ave	779586	42964 1076084	95072 1443547	170298	405774	8.00	0.500 12.0	1.00 16.0	2.00	4.00
n-Decane	DCBd4	Ave	724885	43898 987385	87376 1338070	157897	382092	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,3-Dichlorobenzene	DCBd4	Ave	892519	54442 1230127	110269 1606213	204658	483425	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,4-Dichlorobenzene	DCBd4	Ave	899146	54944 1228564	117780 1619046	208937	496364	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzyl alcohol	DCBd4	Lin2	426218	15089 584449	42170 789685	84488	219459	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2-Dichlorobenzene	DCBd4	Ave	842263	45675 1151456	108143 1506487	196457	464371	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Methylphenol	DCBd4	Ave	676710	32939 891157	78653 1124830	148016	359531	8.00	0.500 12.0	1.00 16.0	2.00	4.00
bis (2-chloroisopropyl) ether	DCBd4	Ave	937913	50568 1170803	119963 1398584	217168	530528	8.00	0.500 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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	NPT	Ave	5478809	360349 +++++	820219 +++++	1523343	3495658	40.0	2.50 +++++	5.00 +++++	10.0	20.0
N-Nitrosodi-n-propylamine	DCBd4	Lin2	418291	18080 544089	42768 727972	83406	221409	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Methylphenol	DCBd4	Ave	686543	34869 885842	74161 1138945	144894	358243	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acetophenone	DCBd4	Ave	983359	49067 1267373	109833 1651479	210767	516591	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachloroethane	DCBd4	Ave	317120	17021 426444	37574 562162	71995	172442	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Nitrobenzene	NPT	Ave	679569	36750 906967	72758 1187358	154281	366850	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Isophorone	NPT	Ave	1139042	54636 1641694	116735 2046009	254827	647962	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Nitrophenol	NPT	Lin2	384651	17647 544480	38539 724881	82729	208779	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4-Dimethylphenol	NPT	Ave	651907	34307 943799	74004 1221578	157558	374201	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	685281	36244 969821	76808 1231777	163678	403458	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzoic acid	NPT	Lin2	1948938	54425 3033558	149948 4121006	379548	1083974	40.0	2.50 60.0	5.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	551793	27571 832046	59400 1088360	131512	327779	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2,4-Trichlorobenzene	NPT	Ave	631137	37981 1033984	76405 1252322	157861	385558	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Naphthalene	NPT	Ave	30631 1905354	115360 3084121	234194 3594193	497670	1174232	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Chloroaniline	NPT	Ave	778274	38228 1204455	85834 1485122	184926	445106	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,6-Dichlorophenol	NPT	Ave	548463	30563 904836	59833 1067075	138329	323679	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	410638	23301 678115	47610 947455	107030	233900	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Caprolactam	NPT	Lin2	371936	15562 644546	36461 862738	88901	228036	16.0	1.00 24.0	2.00 32.0	4.00	8.00
4-Chloro-3-methylphenol	NPT	Lin2	485433	25398 828464	53910 +++++	112156	289856	8.00	0.500 12.0	1.00 +++++	2.00	4.00
2-Methylnaphthalene	NPT	Ave	20674 1281426	76548 2065183	156330 2815133	329074	808842	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	18115 1184177	71631 1753195	138755 2604486	303542	744038	0.125 8.00	0.500 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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	391842	14164 597359	34054 907929	86091	218687	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	646775	37384 953780	76558 1451425	168704	394374	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Ave	390893	18844 601808	40189 932718	95748	230811	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Lin2	398238	20527 671770	43530 1014192	99165	257334	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Biphenyl	ANT	Ave	1448630	87175 2647314	179636 3326825	393946	965066	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	1090822	68186 2050489	138295 2627167	296121	718339	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Nitroaniline	ANT	Lin2	303607	12752 519935	27447 693128	62994	167674	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	1310839	71338 2257978	151209 2888036	333912	786546	8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,3-Dinitrobenzene	NPT	Lin2	231805	9664 395594	20563 530413	56567	138854	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Lin2	321745	16242 552119	34126 737565	81260	196220	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Ave	23859 1687896	97195 2801934	196565 3725476	440484	1063487	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
3-Nitroaniline	ANT	Lin2	350464	15328 530924	34293 711734	76834	199152	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Acenaphthene	ANT	Ave	17775 1176404	71750 1871275	141351 2320241	303915	710059	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4-Dinitrophenol	ANT	Lin1	350451	+++++ 601127	13035 802233	47075	168157	16.0	+++++ 24.0	2.00 32.0	4.00	8.00
4-Nitrophenol	ANT	Lin2	345962	9248 573448	22142 773385	70664	178955	16.0	1.00 24.0	2.00 32.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Lin2	418108	19682 621006	44854 833754	98636	227669	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	1797241	99725 2337165	198944 3138229	427821	955194	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Lin2	348165	13887 494401	32766 658374	78839	167615	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexadecane	ANT	Ave	695861	35675 1125062	73682 1191322	173670	374955	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Diethyl phthalate	ANT	Ave	1358275	72176 2135630	148827 2415933	351241	710360	8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Chlorophenyl phenyl ether	ANT	Ave	744852	40940 1090675	81916 1315547	177647	370542	8.00	0.500 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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Fluorene	ANT	Ave	18266 1448407	76352 2111605	160876 2583455	346959	750954	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Nitroaniline	ANT	Lin2	 388163	14974 562241	33479 673907	85436	189014	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Lin1	 489845	12591 777234	30716 935684	92727	232160	 16.0	1.00 24.0	2.00 32.0	4.00	8.00
Diphenylamine	PHN	Ave	 999336	55097 1540230	108561 2008445	256071	537575	 6.84	0.428 10.3	0.855 13.7	1.71	3.42
N-Nitrosodiphenylamine	PHN	Ave	 999336	55097 1540230	108561 2008445	256071	537575	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
1,2-Diphenylhydrazine	ANT	Ave	 1162580	62250 1884411	128543 2458037	292537	640423	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
trans-Azobenzene	PHN	Ave	 1162580	62250 1884411	128543 2457388	292537	640423	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	 410304	23072 646851	46365 904798	105999	230641	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	 468158	25785 671317	50094 961578	104517	227648	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Atrazine	ANT	Ave	 760176	41588 1104877	88119 1414829	188109	416736	 16.0	1.00 24.0	2.00 32.0	4.00	8.00
n-Octadecane	PHN	Ave	 713299	34760 1136818	70349 1385734	161446	370980	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Pentachlorophenol	PHN	Lin1	 499897	+++++ 840407	26317 1111703	82631	217699	 16.0	+++++ 24.0	2.00 32.0	4.00	8.00
Phenanthrene	PHN	Ave	25776 1867298	110598 2697655	227980 3561780	533019	1080455	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Anthracene	PHN	Ave	26225 1980385	106044 2885160	213469 3627175	526739	1083790	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Carbazole	PHN	Ave	 1640384	94916 2456522	198525 3048655	445066	897888	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Di-n-butyl phthalate	PHN	Ave	 2348258	103846 3045635	217026 4057820	522574	1095684	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Fluoranthene	PHN	Ave	28699 1963361	114427 2962424	236882 4232279	532229	1035396	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzidine	CRY	Ave	 1520261	102586 2533018	209364 3363532	431604	884273	 16.0	1.00 24.0	2.00 32.0	4.00	8.00
Pyrene	CRY	Ave	26887 2006142	121073 3202747	247697 4036945	547843	1072247	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Butyl benzyl phthalate	CRY	Lin2	 863756	39343 1413883	87219 1753590	195154	404041	 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Bis(2-ethylhexyl) phthalate	CRY	Lin2	 1371901	53136 1860951	121378 2553442	298578	636907	 8.00	0.500 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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1 Analy Batch No.: 560743

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/24/2020 15:28 Calibration End Date: 11/24/2020 18:47 Calibration ID: 40698

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	1633294	78721 2170220	163537 2861391	379867	770937	16.0	1.00 24.0	2.00 32.0	4.00	8.00
Benzo[a]anthracene	CRY	Ave	29511 2145918	109986 3523438	240559 3823360	558330	1078942	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Chrysene	CRY	Ave	29946 2110817	110748 3339327	237344 3661827	551087	1052948	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Di-n-octyl phthalate	CRY	Lin2	1928721	80682 3488251	180373 +++++	439413	913709	8.00	0.500 12.0	1.00 +++++	2.00	4.00
Benzo[b]fluoranthene	PRY	Lin2	23484 1928290	102499 2938511	218751 3828822	508684	1016641	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo[k]fluoranthene	PRY	Ave	28158 1905463	115900 2735856	214363 3848258	492714	1068821	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo[a]pyrene	PRY	Lin2	20609 1768473	89744 2640701	179771 3631345	399817	844266	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Indeno[1,2,3-cd]pyrene	PRY	Lin2	26636 2479591	114015 3394876	252302 5025677	545683	1184449	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Lin2	21345 2081230	96512 2808674	216630 4231163	442447	1001646	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
Benzo[g,h,i]perylene	PRY	Lin2	24125 1832769	96524 2711166	200927 3815303	432164	920686	0.125 8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Fluorophenol (Surr)	DCBd4	Ave	741337	39214 1030510	81172 1249335	156257	368813	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Phenol-d5 (Surr)	DCBd4	Ave	843890	47837 1141053	97792 1380621	185906	443459	8.00	0.500 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5 (Surr)	NPT	Lin2	656320	33233 904376	69551 1165080	146834	367973	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	1358752	83759 2151290	161835 3107031	361546	868302	8.00	0.500 12.0	1.00 16.0	2.00	4.00
2,4,6-Tribromophenol (Surr)	PHN	Ave	195464	9628 317951	20418 462531	43685	100308	8.00	0.500 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14 (Surr)	CRY	Ave	1854374	100786 2653547	198434 3406947	436959	844468	8.00	0.500 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011250.d
Lims ID: IC L1 .125
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Nov-2020 15:28:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:35:10 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 12:32:05

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	6.220	6.220	0.000	95	242209	4.00	4.00	
* 2 Naphthalene-d8	136	7.305	7.305	0.000	99	882619	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	93	482225	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	730590	4.00	4.00	
* 5 Chrysene-d12	240	12.551	12.551	0.000	99	776970	4.00	4.00	
* 6 Perylene-d12	264	14.618	14.618	0.000	99	770959	4.00	4.00	
76 Naphthalene	128	7.326	7.326	0.000	96	30631	0.1250	0.1339	
89 2-Methylnaphthalene	142	7.898	7.903	-0.005	94	20674	0.1250	0.1320	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	95	18115	0.1250	0.1277	
107 Acenaphthylene	152	8.662	8.662	0.000	97	23859	0.1250	0.1174	
109 Acenaphthene	153	8.806	8.806	0.000	95	17775	0.1250	0.1263	
123 Fluorene	166	9.233	9.238	-0.005	91	18266	0.1250	0.1168	
149 Phenanthrene	178	10.040	10.045	-0.005	95	25776	0.1250	0.1278	
150 Anthracene	178	10.088	10.088	0.000	95	26225	0.1250	0.1293	
161 Fluoranthene	202	11.044	11.044	0.000	97	28699	0.1250	0.1345	
165 Pyrene	202	11.252	11.253	-0.001	97	26887	0.1250	0.1114	
179 Benzo[a]anthracene	228	12.535	12.540	-0.005	94	29511	0.1250	0.1210	
181 Chrysene	228	12.583	12.588	-0.005	95	29946	0.1250	0.1249	
186 Benzo[b]fluoranthene	252	14.036	14.036	0.000	96	23484	0.1250	0.1274	
187 Benzo[k]fluoranthene	252	14.073	14.073	0.000	97	28158	0.1250	0.1296	
189 Benzo[a]pyrene	252	14.533	14.533	0.000	76	20609	0.1250	0.1287	
193 Indeno[1,2,3-cd]pyrene	276	16.264	16.264	0.000	95	26636	0.1250	0.1296	
194 Dibenz(a,h)anthracene	278	16.280	16.269	0.011	78	21345	0.1250	0.1290	
195 Benzo[g,h,i]perylene	276	16.712	16.712	0.000	96	24125	0.1250	0.1283	

QC Flag Legend
Processing Flags

Reagents:

MB_L1LVI_WRK_00458	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

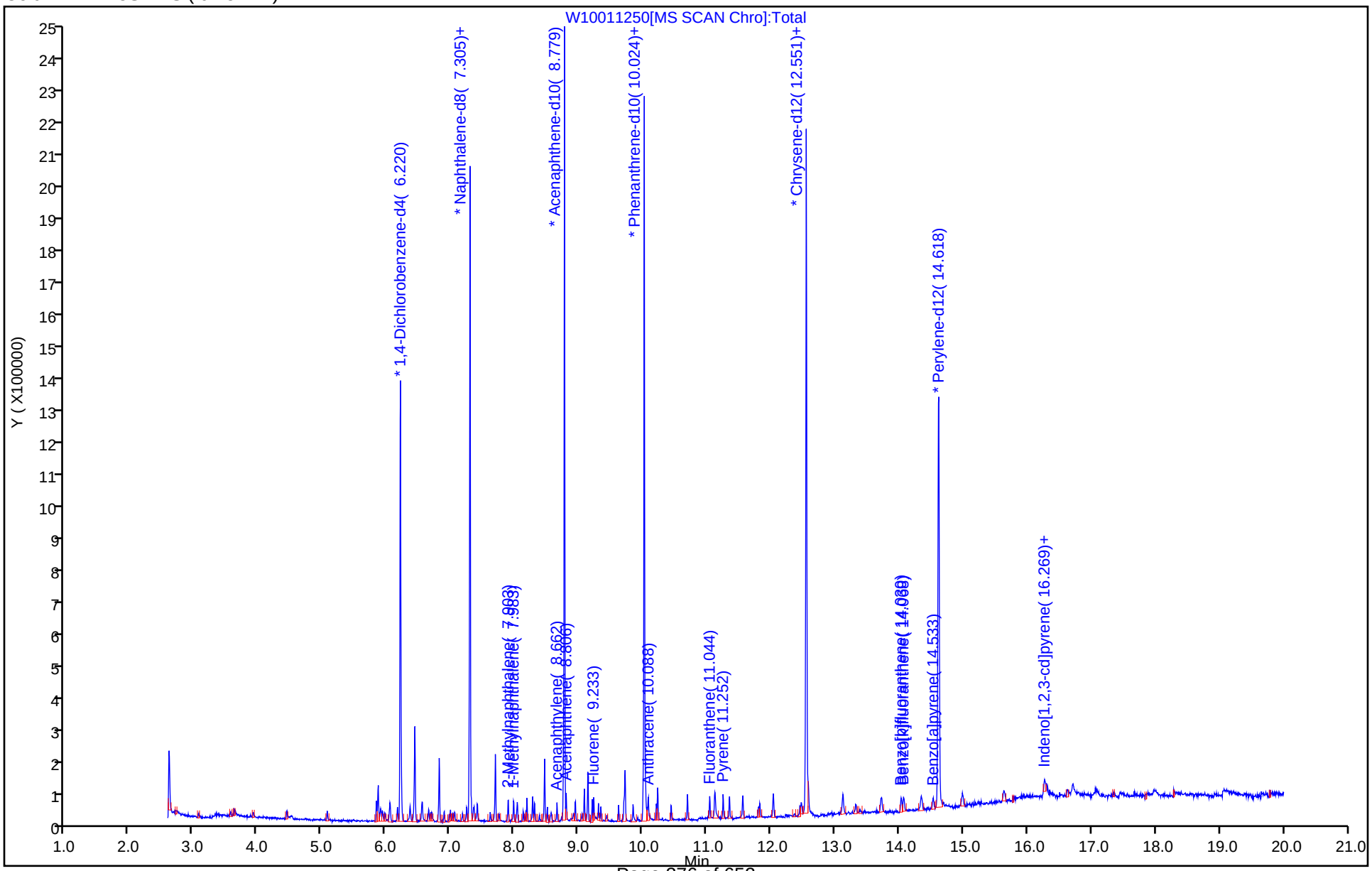
Report Date: 25-Nov-2020 12:35:11 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011250.d

Injection Date:	24-Nov-2020 15:28:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 .125			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011251.d
Lims ID: IC L1 .5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Nov-2020 15:56:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-004
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:35:15 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:21:27

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	6.220	6.220	0.000	94	269783	4.00	4.00	
* 2 Naphthalene-d8	136	7.305	7.305	0.000	99	886695	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	93	483244	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	789951	4.00	4.00	
* 5 Chrysene-d12	240	12.551	12.551	0.000	99	699449	4.00	4.00	
* 6 Perylene-d12	264	14.613	14.618	-0.005	99	835010	4.00	4.00	
$ 7 2-Fluorophenol	112	5.077	5.072	0.005	89	39214	0.5000	0.4855	
$ 8 Phenol-d5	99	5.905	5.905	0.000	98	47837	0.5000	0.5082	
$ 9 Nitrobenzene-d5	82	6.690	6.690	0.000	89	33233	0.5000	0.5000	
$ 10 2-Fluorobiphenyl	172	8.191	8.191	0.000	99	83759	0.5000	0.4982	
$ 11 2,4,6-Tribromophenol	330	9.436	9.442	-0.006	91	9628	0.5000	0.4429	
$ 12 p-Terphenyl-d14	244	11.349	11.354	-0.005	98	100786	0.5000	0.5501	
14 1,4-Dioxane	88	3.074	3.058	0.016	94	17439	0.5000	0.4921	
15 N-Nitrosodimethylamine	42	3.554	3.544	0.010	90	21376	0.5000	0.5046	
16 Pyridine	52	3.602	3.581	0.021	93	44494	1.00	1.03	
36 Benzaldehyde	77	5.846	5.846	0.000	93	63713	1.00	1.07	
37 Phenol	94	5.916	5.916	0.000	97	51150	0.5000	0.4992	
38 Aniline	93	5.937	5.937	0.000	98	56596	0.5000	0.4981	
40 Bis(2-chloroethyl)ether	93	5.980	5.980	0.000	99	43554	0.5000	0.5469	
41 2-Chlorophenol	128	6.049	6.049	0.000	95	42964	0.5000	0.4839	
43 n-Decane	57	6.060	6.060	0.000	91	43898	0.5000	0.5259	
44 1,3-Dichlorobenzene	146	6.172	6.172	0.000	98	54442	0.5000	0.5226	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	96	54944	0.5000	0.5172	
46 Benzyl alcohol	108	6.343	6.338	0.005	94	15089	0.5000	0.5079	
47 1,2-Dichlorobenzene	146	6.370	6.370	0.000	98	45675	0.5000	0.4683	
49 2-Methylphenol	108	6.428	6.428	0.000	93	32939	0.5000	0.4458	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	93	50568	0.5000	0.4821	
48 Indene	115	6.444	6.445	0.000	90	360349	2.50	2.52	
55 N-Nitrosodi-n-propylamine	70	6.546	6.551	-0.005	94	18080	0.5000	0.5109	
56 4-Methylphenol	108	6.557	6.557	0.000	68	34869	0.5000	0.4724	
53 Acetophenone	105	6.557	6.557	0.000	94	49067	0.5000	0.4610	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.658	6.664	-0.006	91	17021	0.5000	0.4740	
61 Nitrobenzene	77	6.706	6.706	0.000	88	36750	0.5000	0.5067	
63 Isophorone	82	6.904	6.904	0.000	98	54636	0.5000	0.4506	
67 2-Nitrophenol	139	6.979	6.979	0.000	92	17647	0.5000	0.5068	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	95	34307	0.5000	0.4723	
71 Bis(2-chloroethoxy)methane	93	7.064	7.070	-0.006	99	36244	0.5000	0.4785	
72 Benzoic acid	105	7.048	7.107	-0.059	85	54425	2.50	2.63	a
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	91	27571	0.5000	0.4475	
75 1,2,4-Trichlorobenzene	180	7.251	7.257	-0.006	94	37981	0.5000	0.5050	
76 Naphthalene	128	7.326	7.326	0.000	96	115360	0.5000	0.5021	
78 4-Chloroaniline	127	7.358	7.358	0.000	97	38228	0.5000	0.4427	
79 2,6-Dichlorophenol	162	7.369	7.369	0.000	97	30563	0.5000	0.4824	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	96	23301	0.5000	0.4729	
84 Caprolactam	113	7.625	7.652	-0.027	78	15562	1.00	1.03	
87 4-Chloro-3-methylphenol	107	7.753	7.759	-0.006	92	25398	0.5000	0.5057	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	92	76548	0.5000	0.4865	
91 1-Methylnaphthalene	142	7.983	7.988	-0.005	94	71631	0.5000	0.5028	
93 Hexachlorocyclopentadiene	237	8.031	8.036	-0.005	96	14164	0.5000	0.5168	
92 1,2,4,5-Tetrachlorobenzene	216	8.042	8.047	-0.005	96	37384	0.5000	0.4825	
94 2,4,6-Trichlorophenol	196	8.133	8.133	0.000	90	18844	0.5000	0.4192	
95 2,4,5-Trichlorophenol	196	8.170	8.175	-0.005	95	20527	0.5000	0.5116	
97 1,1'-Biphenyl	154	8.282	8.282	0.000	95	87175	0.5000	0.4705	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	95	68186	0.5000	0.4802	
100 2-Nitroaniline	65	8.384	8.384	0.000	88	12752	0.5000	0.5275	
104 Dimethyl phthalate	163	8.512	8.512	0.000	99	71338	0.5000	0.4535	
105 1,3-Dinitrobenzene	168	8.555	8.560	-0.005	83	9664	0.5000	0.5270	
106 2,6-Dinitrotoluene	165	8.576	8.576	0.000	93	16242	0.5000	0.5091	
107 Acenaphthylene	152	8.662	8.662	0.000	98	97195	0.5000	0.4771	
108 3-Nitroaniline	138	8.726	8.726	0.000	92	15328	0.5000	0.5064	
109 Acenaphthene	153	8.806	8.806	0.000	93	71750	0.5000	0.5089	
110 2,4-Dinitrophenol	184	8.816	8.816	0.000	55	2050	1.00	1.81	
111 4-Nitrophenol	109	8.865	8.859	0.005	85	9248	1.00	1.08	
113 2,4-Dinitrotoluene	165	8.918	8.918	0.000	94	19682	0.5000	0.4919	
114 Dibenzofuran	168	8.945	8.950	-0.005	96	99725	0.5000	0.5123	
117 2,3,4,6-Tetrachlorophenol	232	9.051	9.052	-0.001	69	13887	0.5000	0.4973	
120 Hexadecane	57	9.089	9.089	0.000	94	35675	0.5000	0.4640	
119 Diethyl phthalate	149	9.089	9.094	-0.005	98	72176	0.5000	0.4755	
122 4-Chlorophenyl phenyl ether	204	9.212	9.212	0.000	89	40940	0.5000	0.5043	
125 4-Nitroaniline	138	9.238	9.238	0.000	83	14974	0.5000	0.5061	
123 Fluorene	166	9.233	9.238	-0.005	92	76352	0.5000	0.4870	
126 4,6-Dinitro-2-methylphenol	198	9.260	9.265	-0.005	91	12591	1.00	1.22	
128 Diphenylamine	169	9.308	9.308	0.000	96	55097	0.4275	0.4197	
129 N-Nitrosodiphenylamine	169	9.308	9.308	0.000	98	55097	0.5000	0.4909	
130 1,2-Diphenylhydrazine	77	9.345	9.345	0.000	95	62250	0.5000	0.4632	
131 Azobenzene	77	9.345	9.345	0.000	96	62250	0.5000	0.4698	
137 4-Bromophenyl phenyl ether	248	9.623	9.623	0.000	64	23072	0.5000	0.4846	
138 Hexachlorobenzene	284	9.709	9.709	0.000	94	25785	0.5000	0.5113	
141 Atrazine	200	9.730	9.730	0.000	94	41588	1.00	0.9724	
146 n-Octadecane	57	9.847	9.853	-0.006	93	34760	0.5000	0.4562	
143 Pentachlorophenol	266	9.864	9.864	0.000	90	9438	1.00	1.87	M
149 Phenanthrene	178	10.045	10.045	0.000	97	110598	0.5000	0.5073	
150 Anthracene	178	10.083	10.088	-0.005	97	106044	0.5000	0.4835	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	95	94916	0.5000	0.5063	
154 Di-n-butyl phthalate	149	10.440	10.441	0.000	99	103846	0.5000	0.4522	
161 Fluoranthene	202	11.044	11.044	0.000	96	114427	0.5000	0.4958	
164 Benzidine	184	11.130	11.130	0.000	99	102586	1.00	1.14	
165 Pyrene	202	11.252	11.253	-0.001	98	121073	0.5000	0.5571	
172 Butyl benzyl phthalate	149	11.803	11.808	-0.005	97	39343	0.5000	0.5139	
180 Bis(2-ethylhexyl) phthalate	149	12.449	12.455	-0.006	94	53136	0.5000	0.5116	
177 3,3'-Dichlorobenzidine	252	12.471	12.476	-0.005	72	78721	1.00	1.02	
179 Benzo[a]anthracene	228	12.535	12.540	-0.005	98	109986	0.5000	0.5009	
181 Chrysene	228	12.583	12.588	-0.005	96	110748	0.5000	0.5133	
184 Di-n-octyl phthalate	149	13.325	13.325	0.000	99	80682	0.5000	0.5181	
186 Benzo[b]fluoranthene	252	14.030	14.036	-0.006	92	102499	0.5000	0.4539	
187 Benzo[k]fluoranthene	252	14.068	14.073	-0.005	98	115900	0.5000	0.4923	
189 Benzo[a]pyrene	252	14.527	14.533	-0.006	76	89744	0.5000	0.4577	
193 Indeno[1,2,3-cd]pyrene	276	16.264	16.264	0.000	95	114015	0.5000	0.4335	
194 Dibenz(a,h)anthracene	278	16.269	16.269	0.000	79	96512	0.5000	0.4408	
195 Benzo[g,h,i]perylene	276	16.707	16.712	-0.005	98	96524	0.5000	0.4526	
S 262 Total Cresols	1				0			0.9183	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00459	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

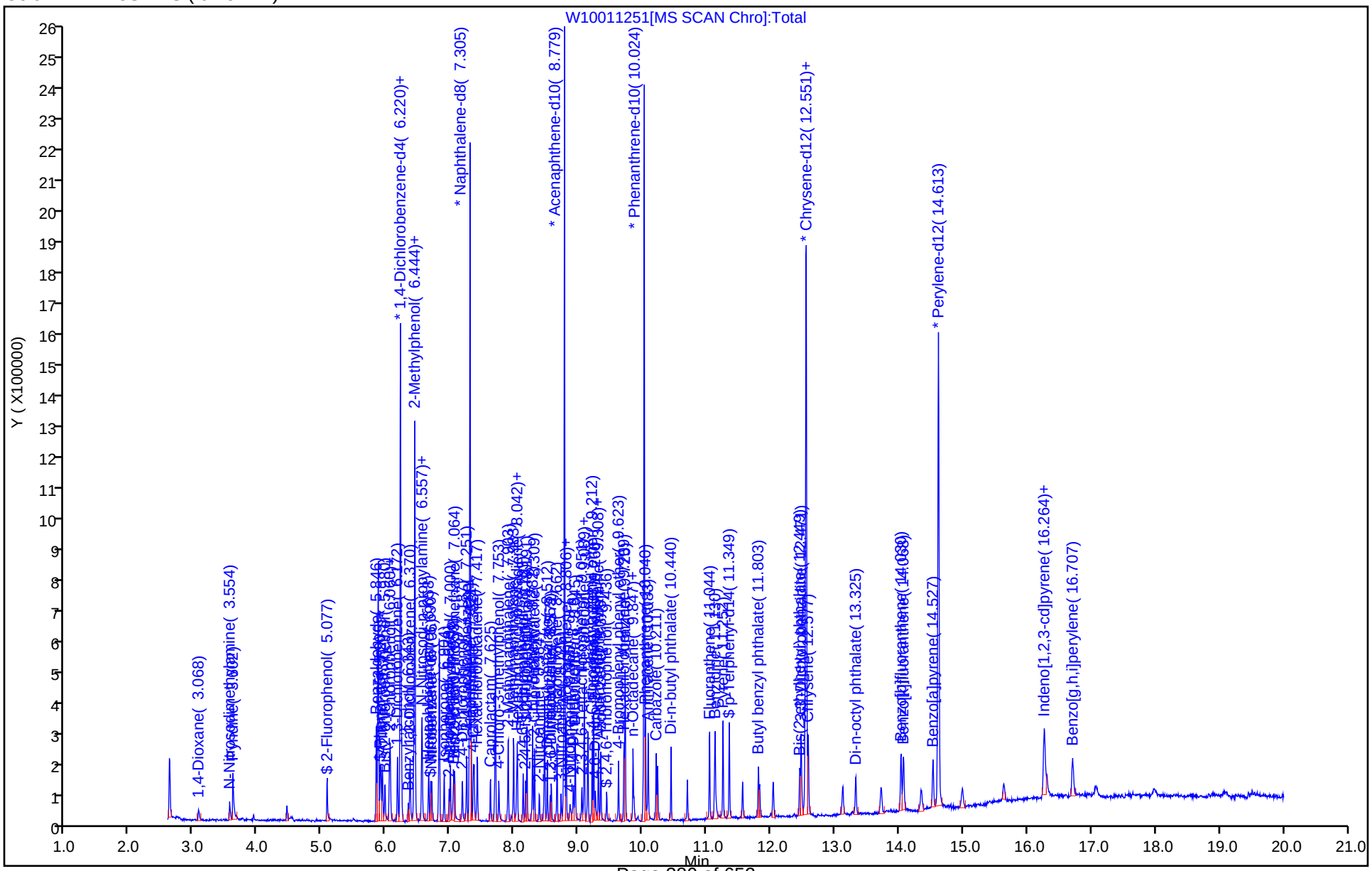
Report Date: 25-Nov-2020 12:35:16 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011251.d

Injection Date:	24-Nov-2020 15:56:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 .5			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

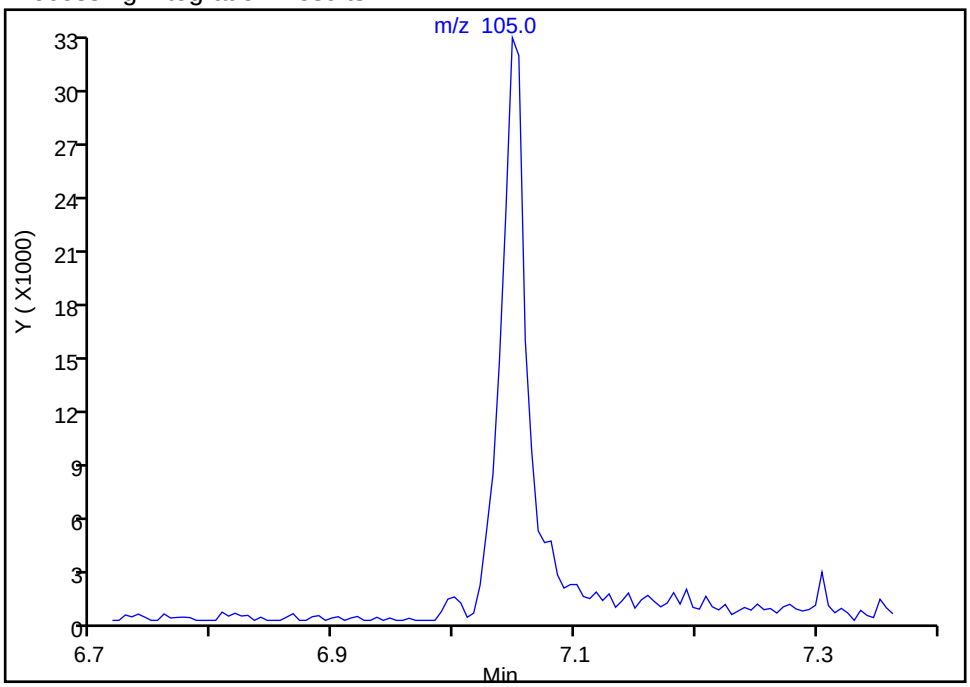
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011251.d
Injection Date: 24-Nov-2020 15:56:30 Instrument ID: HP5973W
Lims ID: IC L1 .5
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

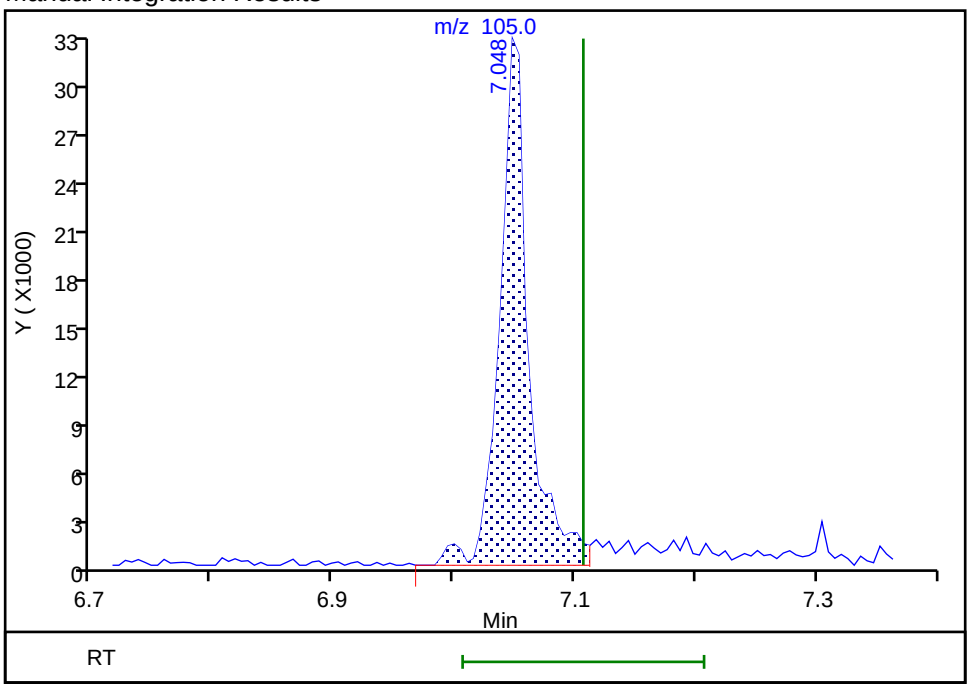
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.05
Area: 54425
Amount: 2.628426
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:20:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Buffalo

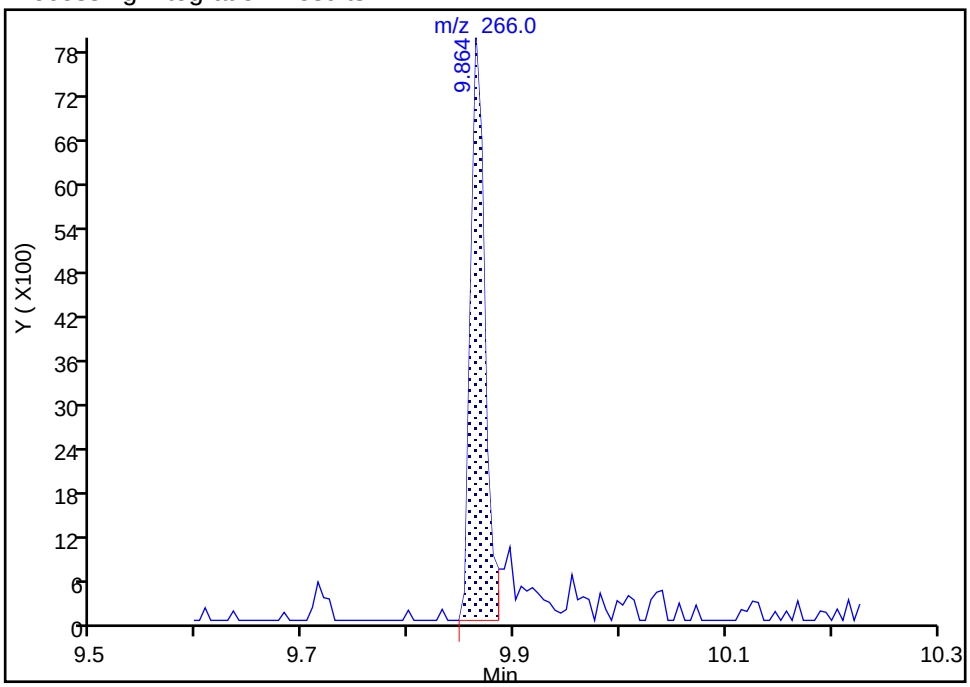
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011251.d
Injection Date: 24-Nov-2020 15:56:30 Instrument ID: HP5973W
Lims ID: IC L1 .5
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

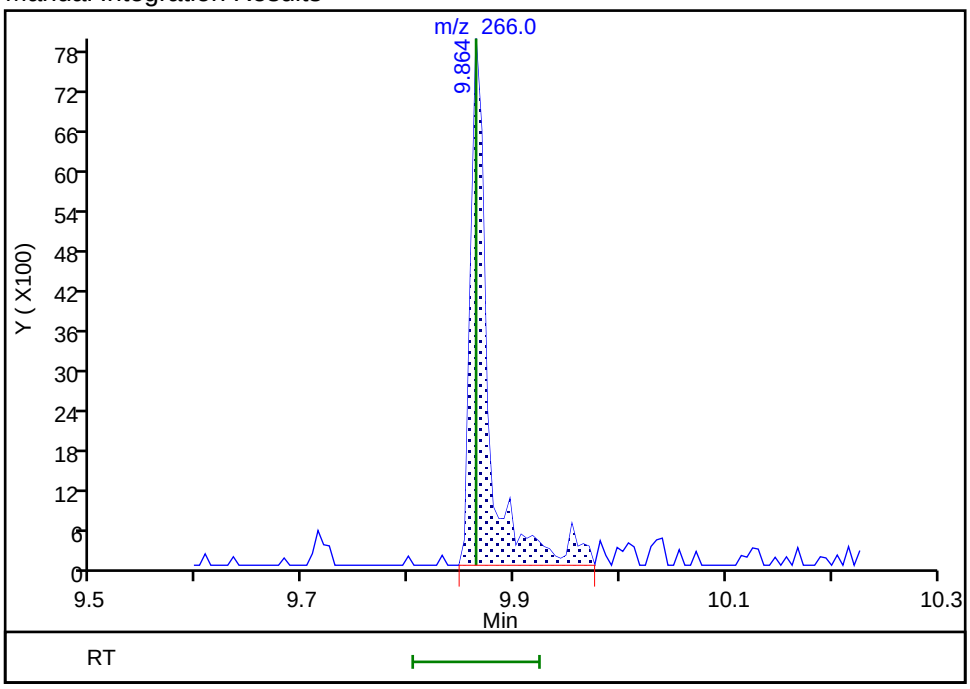
Processing Integration Results

RT: 9.86
Area: 7478
Amount: 1.381111
Amount Units: ng/uL



Manual Integration Results

RT: 9.86
Area: 9438
Amount: 1.868944
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:21:15
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011252.d
Lims ID: IC L1 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Nov-2020 16:24:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-005
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:35:25 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:22:40

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	6.220	6.220	0.000	94	292136	4.00	4.00	
* 2 Naphthalene-d8	136	7.305	7.305	0.000	99	890178	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	93	474960	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	808798	4.00	4.00	
* 5 Chrysene-d12	240	12.551	12.551	0.000	99	744520	4.00	4.00	
* 6 Perylene-d12	264	14.613	14.618	-0.005	99	798006	4.00	4.00	
$ 7 2-Fluorophenol	112	5.077	5.072	0.005	89	81172	1.00	0.9280	
$ 8 Phenol-d5	99	5.905	5.905	0.000	99	97792	1.00	0.9594	
$ 9 Nitrobenzene-d5	82	6.690	6.690	0.000	89	69551	1.00	1.00	
$ 10 2-Fluorobiphenyl	172	8.191	8.191	0.000	99	161835	1.00	0.9794	
$ 11 2,4,6-Tribromophenol	330	9.436	9.442	-0.006	92	20418	1.00	0.9174	
$ 12 p-Terphenyl-d14	244	11.349	11.354	-0.005	98	198434	1.00	1.02	
14 1,4-Dioxane	88	3.074	3.058	0.016	95	38195	1.00	1.00	
15 N-Nitrosodimethylamine	42	3.554	3.544	0.010	90	42424	1.00	0.9249	
16 Pyridine	52	3.597	3.581	0.016	93	102393	2.00	1.95	
36 Benzaldehyde	77	5.841	5.846	-0.005	94	129184	2.00	2.00	
37 Phenol	94	5.916	5.916	0.000	98	110320	1.00	0.99	
38 Aniline	93	5.937	5.937	0.000	98	118297	1.00	0.9615	
40 Bis(2-chloroethyl)ether	93	5.974	5.980	-0.006	95	85915	1.00	1.00	
41 2-Chlorophenol	128	6.044	6.049	-0.005	95	95072	1.00	0.9888	
43 n-Decane	57	6.060	6.060	0.000	95	87376	1.00	0.9667	
44 1,3-Dichlorobenzene	146	6.172	6.172	0.000	99	110269	1.00	0.9774	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	97	117780	1.00	1.02	
46 Benzyl alcohol	108	6.338	6.338	0.000	95	42170	1.00	0.9846	
47 1,2-Dichlorobenzene	146	6.370	6.370	0.000	97	108143	1.00	1.02	
49 2-Methylphenol	108	6.428	6.428	0.000	94	78653	1.00	0.9831	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	93	119963	1.00	1.06	
48 Indene	115	6.444	6.445	0.000	89	820219	5.00	5.71	
55 N-Nitrosodi-n-propylamine	70	6.551	6.551	0.000	94	42768	1.00	0.9630	
56 4-Methylphenol	108	6.557	6.557	0.000	94	74161	1.00	0.9279	
53 Acetophenone	105	6.557	6.557	0.000	95	109833	1.00	0.9529	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.658	6.664	-0.006	93	37574	1.00	0.9664	
61 Nitrobenzene	77	6.706	6.706	0.000	89	72758	1.00	1.00	
63 Isophorone	82	6.904	6.904	0.000	98	116735	1.00	0.9590	
67 2-Nitrophenol	139	6.979	6.979	0.000	90	38539	1.00	0.99	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	93	74004	1.00	1.01	
71 Bis(2-chloroethoxy)methane	93	7.064	7.070	-0.006	99	76808	1.00	1.01	
72 Benzoic acid	105	7.064	7.107	-0.043	89	149948	5.00	4.68	
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	91	59400	1.00	0.9603	
75 1,2,4-Trichlorobenzene	180	7.251	7.257	-0.006	93	76405	1.00	1.01	
76 Naphthalene	128	7.326	7.326	0.000	96	234194	1.00	1.02	
78 4-Chloroaniline	127	7.358	7.358	0.000	98	85834	1.00	0.99	
79 2,6-Dichlorophenol	162	7.369	7.369	0.000	98	59833	1.00	0.9407	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	95	47610	1.00	0.9624	
84 Caprolactam	113	7.625	7.652	-0.027	81	36461	2.00	1.91	
87 4-Chloro-3-methylphenol	107	7.753	7.759	-0.006	95	53910	1.00	1.00	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	93	156330	1.00	0.9896	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	93	138755	1.00	0.9702	
93 Hexachlorocyclopentadiene	237	8.031	8.036	-0.005	92	34054	1.00	0.9487	
92 1,2,4,5-Tetrachlorobenzene	216	8.042	8.047	-0.005	97	76558	1.00	1.01	
94 2,4,6-Trichlorophenol	196	8.133	8.133	0.000	90	40189	1.00	0.9096	
95 2,4,5-Trichlorophenol	196	8.170	8.175	-0.005	96	43530	1.00	0.9692	
97 1,1'-Biphenyl	154	8.282	8.282	0.000	95	179636	1.00	0.9865	
98 2-Chloronaphthalene	162	8.309	8.314	-0.005	96	138295	1.00	0.99	
100 2-Nitroaniline	65	8.384	8.384	0.000	92	27447	1.00	0.9389	
104 Dimethyl phthalate	163	8.512	8.512	0.000	99	151209	1.00	0.9780	
105 1,3-Dinitrobenzene	168	8.555	8.560	-0.005	89	20563	1.00	0.8968	
106 2,6-Dinitrotoluene	165	8.576	8.576	0.000	94	34126	1.00	0.9640	
107 Acenaphthylene	152	8.662	8.662	0.000	98	196565	1.00	0.9817	
108 3-Nitroaniline	138	8.726	8.726	0.000	91	34293	1.00	0.9869	
109 Acenaphthene	153	8.806	8.806	0.000	94	141351	1.00	1.02	
110 2,4-Dinitrophenol	184	8.811	8.816	-0.005	82	13035	2.00	2.28	
111 4-Nitrophenol	109	8.859	8.859	0.000	88	22142	2.00	1.72	
113 2,4-Dinitrotoluene	165	8.918	8.918	0.000	94	44854	1.00	1.03	
114 Dibenzofuran	168	8.945	8.950	-0.005	96	198944	1.00	1.04	
117 2,3,4,6-Tetrachlorophenol	232	9.051	9.052	-0.001	70	32766	1.00	1.00	
120 Hexadecane	57	9.089	9.089	0.000	91	73682	1.00	0.9751	
119 Diethyl phthalate	149	9.089	9.094	-0.005	98	148827	1.00	1.00	
122 4-Chlorophenyl phenyl ether	204	9.212	9.212	0.000	89	81916	1.00	1.03	
125 4-Nitroaniline	138	9.238	9.238	0.000	85	33479	1.00	0.9607	
123 Fluorene	166	9.233	9.238	-0.005	96	160876	1.00	1.04	
126 4,6-Dinitro-2-methylphenol	198	9.260	9.265	-0.005	93	30716	2.00	1.82	
128 Diphenylamine	169	9.308	9.308	0.000	95	108561	0.8550	0.8078	
129 N-Nitrosodiphenylamine	169	9.308	9.308	0.000	99	108561	1.00	0.9448	
130 1,2-Diphenylhydrazine	77	9.345	9.345	0.000	98	128543	1.00	0.9731	
131 Azobenzene	77	9.345	9.345	0.000	98	128543	1.00	0.9476	
137 4-Bromophenyl phenyl ether	248	9.623	9.623	0.000	64	46365	1.00	0.9511	
138 Hexachlorobenzene	284	9.709	9.709	0.000	93	50094	1.00	0.9701	
141 Atrazine	200	9.730	9.730	0.000	95	88119	2.00	2.10	
146 n-Octadecane	57	9.847	9.853	-0.006	94	70349	1.00	0.9018	
143 Pentachlorophenol	266	9.864	9.864	0.000	90	26317	2.00	2.36	M
149 Phenanthrene	178	10.045	10.045	0.000	96	227980	1.00	1.02	
150 Anthracene	178	10.088	10.088	0.000	96	213469	1.00	0.9507	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	96	198525	1.00	1.03	
154 Di-n-butyl phthalate	149	10.440	10.441	0.000	100	217026	1.00	0.9231	
161 Fluoranthene	202	11.044	11.044	0.000	97	236882	1.00	1.00	
164 Benzidine	184	11.130	11.130	0.000	99	209364	2.00	2.19	
165 Pyrene	202	11.252	11.253	-0.001	98	247697	1.00	1.07	
172 Butyl benzyl phthalate	149	11.803	11.808	-0.005	97	87219	1.00	0.99	
180 Bis(2-ethylhexyl) phthalate	149	12.449	12.455	-0.006	94	121378	1.00	0.9701	
177 3,3'-Dichlorobenzidine	252	12.471	12.476	-0.005	73	163537	2.00	1.98	
179 Benzo[a]anthracene	228	12.535	12.540	-0.005	97	240559	1.00	1.03	
181 Chrysene	228	12.583	12.588	-0.005	96	237344	1.00	1.03	
184 Di-n-octyl phthalate	149	13.325	13.325	0.000	98	180373	1.00	0.9615	
186 Benzo[b]fluoranthene	252	14.030	14.036	-0.006	96	218751	1.00	0.9894	
187 Benzo[k]fluoranthene	252	14.068	14.073	-0.005	98	214363	1.00	0.9528	
189 Benzo[a]pyrene	252	14.527	14.533	-0.006	76	179771	1.00	0.9378	
193 Indeno[1,2,3-cd]pyrene	276	16.258	16.264	-0.006	97	252302	1.00	0.9688	
194 Dibenz(a,h)anthracene	278	16.269	16.269	0.000	90	216630	1.00	0.99	
195 Benzo[g,h,i]perylene	276	16.707	16.712	-0.005	98	200927	1.00	0.9765	
S 262 Total Cresols	1				0			1.91	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00460	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

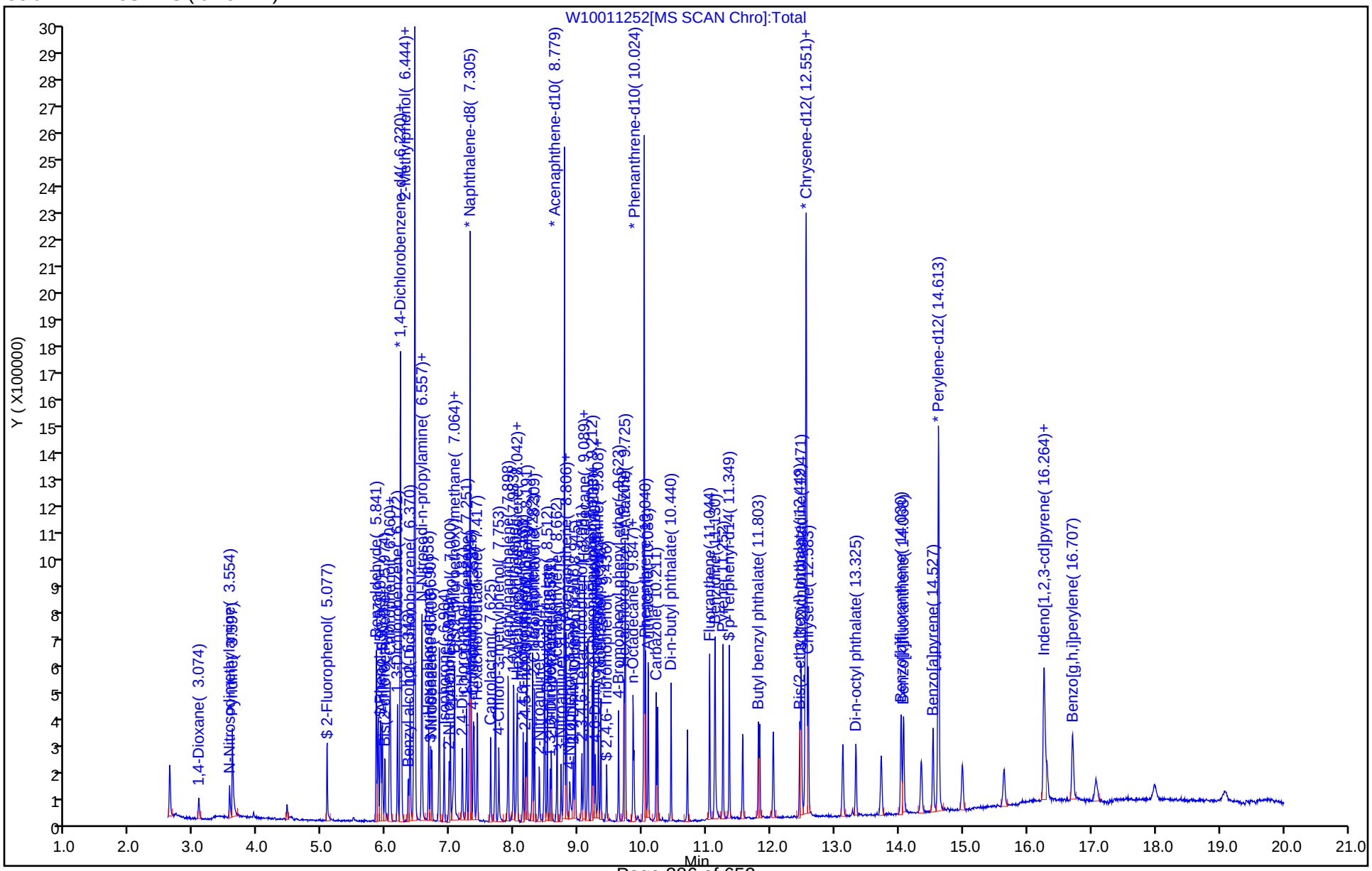
Report Date: 25-Nov-2020 12:35:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011252.d

Injection Date:	24-Nov-2020 16:24:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 1			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

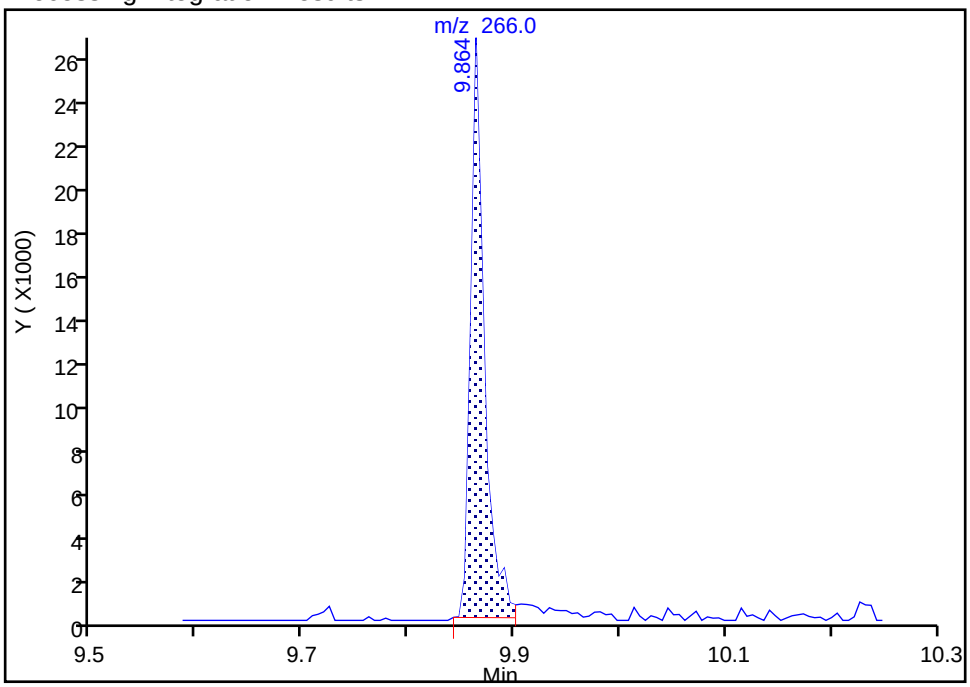
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011252.d
Injection Date: 24-Nov-2020 16:24:30 Instrument ID: HP5973W
Lims ID: IC L1 1
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

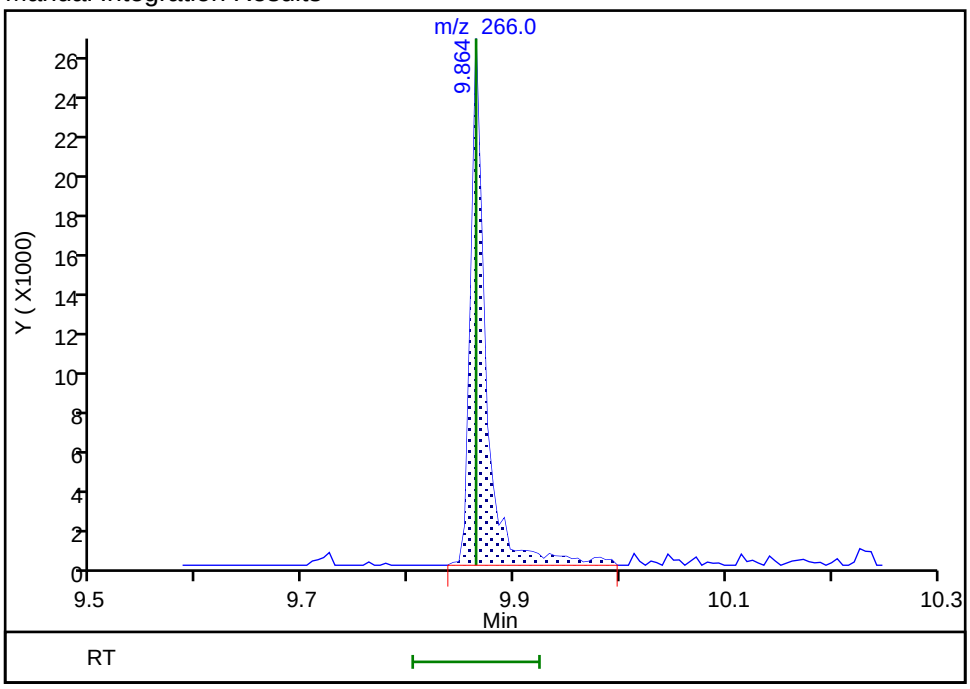
Processing Integration Results

RT: 9.86
Area: 23516
Amount: 1.836128
Amount Units: ng/uL



Manual Integration Results

RT: 9.86
Area: 26317
Amount: 2.357956
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:22:27
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011253.d
Lims ID: IC L1 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Nov-2020 16:53:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-006
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:35:36 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:23:46

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	6.220	6.220	0.000	95	266557	4.00	4.00	
* 2 Naphthalene-d8	136	7.305	7.305	0.000	99	955095	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	93	515876	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	943566	4.00	4.00	
* 5 Chrysene-d12	240	12.551	12.551	0.000	99	875638	4.00	4.00	
* 6 Perylene-d12	264	14.613	14.618	-0.005	99	875845	4.00	4.00	
$ 7 2-Fluorophenol	112	5.071	5.072	-0.001	91	156257	2.00	1.96	
$ 8 Phenol-d5	99	5.900	5.905	-0.005	99	185906	2.00	2.00	
$ 9 Nitrobenzene-d5	82	6.690	6.690	0.000	89	146834	2.00	1.94	
$ 10 2-Fluorobiphenyl	172	8.191	8.191	0.000	99	361546	2.00	2.01	
$ 11 2,4,6-Tribromophenol	330	9.436	9.442	-0.006	93	43685	2.00	1.68	
$ 12 p-Terphenyl-d14	244	11.354	11.354	0.000	98	436959	2.00	1.91	
14 1,4-Dioxane	88	3.068	3.058	0.010	94	73569	2.00	2.10	
15 N-Nitrosodimethylamine	42	3.549	3.544	0.005	88	86210	2.00	2.06	
16 Pyridine	52	3.586	3.581	0.005	93	195962	4.00	3.86	
36 Benzaldehyde	77	5.841	5.846	-0.005	93	250289	4.00	4.25	
37 Phenol	94	5.916	5.916	0.000	99	207172	2.00	2.05	
38 Aniline	93	5.937	5.937	0.000	98	221414	2.00	1.97	
40 Bis(2-chloroethyl)ether	93	5.974	5.980	-0.006	97	156853	2.00	1.99	
41 2-Chlorophenol	128	6.044	6.049	-0.005	95	170298	2.00	1.94	
43 n-Decane	57	6.060	6.060	0.000	91	157897	2.00	1.91	
44 1,3-Dichlorobenzene	146	6.172	6.172	0.000	99	204658	2.00	1.99	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	97	208937	2.00	1.99	
46 Benzyl alcohol	108	6.338	6.338	0.000	96	84488	2.00	1.92	
47 1,2-Dichlorobenzene	146	6.370	6.370	0.000	98	196457	2.00	2.04	
49 2-Methylphenol	108	6.428	6.428	0.000	94	148016	2.00	2.03	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	90	217168	2.00	2.10	
48 Indene	115	6.444	6.445	0.000	92	1523343	10.0	9.88	
55 N-Nitrosodi-n-propylamine	70	6.551	6.551	0.000	90	83406	2.00	1.91	
56 4-Methylphenol	108	6.557	6.557	0.000	94	144894	2.00	1.99	
53 Acetophenone	105	6.557	6.557	0.000	94	210767	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.658	6.664	-0.006	94	71995	2.00	2.03	
61 Nitrobenzene	77	6.706	6.706	0.000	87	154281	2.00	1.97	
63 Isophorone	82	6.904	6.904	0.000	98	254827	2.00	1.95	
67 2-Nitrophenol	139	6.979	6.979	0.000	95	82729	2.00	1.90	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	94	157558	2.00	2.01	
71 Bis(2-chloroethoxy)methane	93	7.064	7.070	-0.006	99	163678	2.00	2.01	
72 Benzoic acid	105	7.080	7.107	-0.027	88	379548	10.0	9.08	
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	90	131512	2.00	1.98	
75 1,2,4-Trichlorobenzene	180	7.251	7.257	-0.006	94	157861	2.00	1.95	
76 Naphthalene	128	7.326	7.326	0.000	97	497670	2.00	2.01	
78 4-Chloroaniline	127	7.358	7.358	0.000	97	184926	2.00	1.99	
79 2,6-Dichlorophenol	162	7.369	7.369	0.000	98	138329	2.00	2.03	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	95	107030	2.00	2.02	
84 Caprolactam	113	7.636	7.652	-0.016	80	88901	4.00	3.85	
87 4-Chloro-3-methylphenol	107	7.753	7.759	-0.006	95	112156	2.00	1.88	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	93	329074	2.00	1.94	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	93	303542	2.00	1.98	
93 Hexachlorocyclopentadiene	237	8.036	8.036	0.000	93	86091	2.00	1.92	
92 1,2,4,5-Tetrachlorobenzene	216	8.047	8.047	0.000	97	168704	2.00	2.04	
94 2,4,6-Trichlorophenol	196	8.133	8.133	0.000	92	95748	2.00	2.00	
95 2,4,5-Trichlorophenol	196	8.170	8.175	-0.005	94	99165	2.00	1.91	
97 1,1'-Biphenyl	154	8.282	8.282	0.000	94	393946	2.00	1.99	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	96	296121	2.00	1.95	
100 2-Nitroaniline	65	8.384	8.384	0.000	91	62994	2.00	1.78	
104 Dimethyl phthalate	163	8.512	8.512	0.000	99	333912	2.00	1.99	
105 1,3-Dinitrobenzene	168	8.555	8.560	-0.005	92	56567	2.00	1.99	
106 2,6-Dinitrotoluene	165	8.576	8.576	0.000	93	81260	2.00	1.98	
107 Acenaphthylene	152	8.661	8.662	-0.001	98	440484	2.00	2.03	
108 3-Nitroaniline	138	8.726	8.726	0.000	95	76834	2.00	1.90	
109 Acenaphthene	153	8.806	8.806	0.000	94	303915	2.00	2.02	
110 2,4-Dinitrophenol	184	8.811	8.816	-0.005	86	47075	4.00	3.59	
111 4-Nitrophenol	109	8.859	8.859	0.000	89	70664	4.00	3.82	
113 2,4-Dinitrotoluene	165	8.918	8.918	0.000	94	98636	2.00	2.00	
114 Dibenzofuran	168	8.950	8.950	0.000	96	427821	2.00	2.06	
117 2,3,4,6-Tetrachlorophenol	232	9.051	9.052	-0.001	73	78839	2.00	2.06	
120 Hexadecane	57	9.089	9.089	0.000	94	173670	2.00	2.12	
119 Diethyl phthalate	149	9.094	9.094	0.000	99	351241	2.00	2.17	
122 4-Chlorophenyl phenyl ether	204	9.212	9.212	0.000	90	177647	2.00	2.05	
125 4-Nitroaniline	138	9.238	9.238	0.000	94	85436	2.00	2.06	
123 Fluorene	166	9.233	9.238	-0.005	94	346959	2.00	2.07	
126 4,6-Dinitro-2-methylphenol	198	9.265	9.265	0.000	92	92727	4.00	3.47	
128 Diphenylamine	169	9.308	9.308	0.000	94	256071	1.71	1.63	
129 N-Nitrosodiphenylamine	169	9.308	9.308	0.000	99	256071	2.00	1.91	
130 1,2-Diphenylhydrazine	77	9.345	9.345	0.000	98	292537	2.00	2.04	
131 Azobenzene	77	9.345	9.345	0.000	98	292537	2.00	1.85	
137 4-Bromophenyl phenyl ether	248	9.623	9.623	0.000	63	105999	2.00	1.86	
138 Hexachlorobenzene	284	9.709	9.709	0.000	94	104517	2.00	1.74	
141 Atrazine	200	9.730	9.730	0.000	94	188109	4.00	4.12	
146 n-Octadecane	57	9.847	9.853	-0.006	93	161446	2.00	1.77	
143 Pentachlorophenol	266	9.863	9.864	-0.001	93	82631	4.00	3.66	M
149 Phenanthrene	178	10.045	10.045	0.000	97	533019	2.00	2.05	
150 Anthracene	178	10.088	10.088	0.000	97	526739	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	96	445066	2.00	1.99	
154 Di-n-butyl phthalate	149	10.440	10.441	0.000	100	522574	2.00	1.91	
161 Fluoranthene	202	11.044	11.044	0.000	97	532229	2.00	1.93	
164 Benzidine	184	11.130	11.130	0.000	99	431604	4.00	3.84	
165 Pyrene	202	11.252	11.253	-0.001	98	547843	2.00	2.01	
172 Butyl benzyl phthalate	149	11.808	11.808	0.000	96	195154	2.00	1.83	
180 Bis(2-ethylhexyl) phthalate	149	12.454	12.455	-0.001	94	298578	2.00	1.91	
177 3,3'-Dichlorobenzidine	252	12.470	12.476	-0.006	73	379867	4.00	3.92	
179 Benzo[a]anthracene	228	12.535	12.540	-0.005	98	558330	2.00	2.03	
181 Chrysene	228	12.583	12.588	-0.005	96	551087	2.00	2.04	
184 Di-n-octyl phthalate	149	13.325	13.325	0.000	99	439413	2.00	1.87	
186 Benzo[b]fluoranthene	252	14.030	14.036	-0.006	96	508684	2.00	2.07	
187 Benzo[k]fluoranthene	252	14.068	14.073	-0.005	99	492714	2.00	2.00	
189 Benzo[a]pyrene	252	14.527	14.533	-0.006	76	399817	2.00	1.88	
193 Indeno[1,2,3-cd]pyrene	276	16.258	16.264	-0.006	99	545683	2.00	1.88	
194 Dibenz(a,h)anthracene	278	16.269	16.269	0.000	89	442447	2.00	1.82	
195 Benzo[g,h,i]perylene	276	16.707	16.712	-0.005	98	432164	2.00	1.91	
S 262 Total Cresols	1				0			4.01	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00461	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

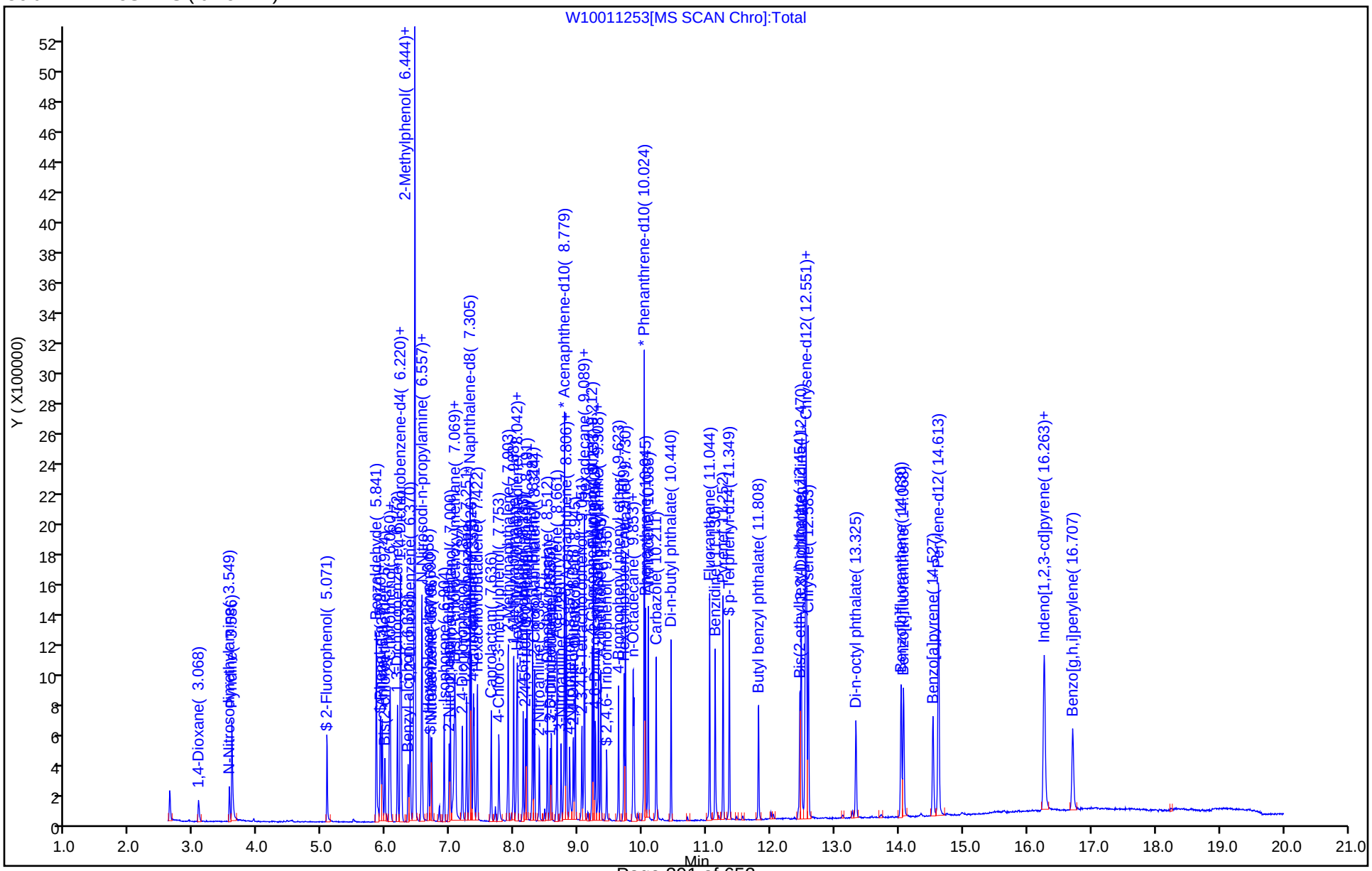
Report Date: 25-Nov-2020 12:35:37 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011253.d

Injection Date:	24-Nov-2020 16:53:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 2			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

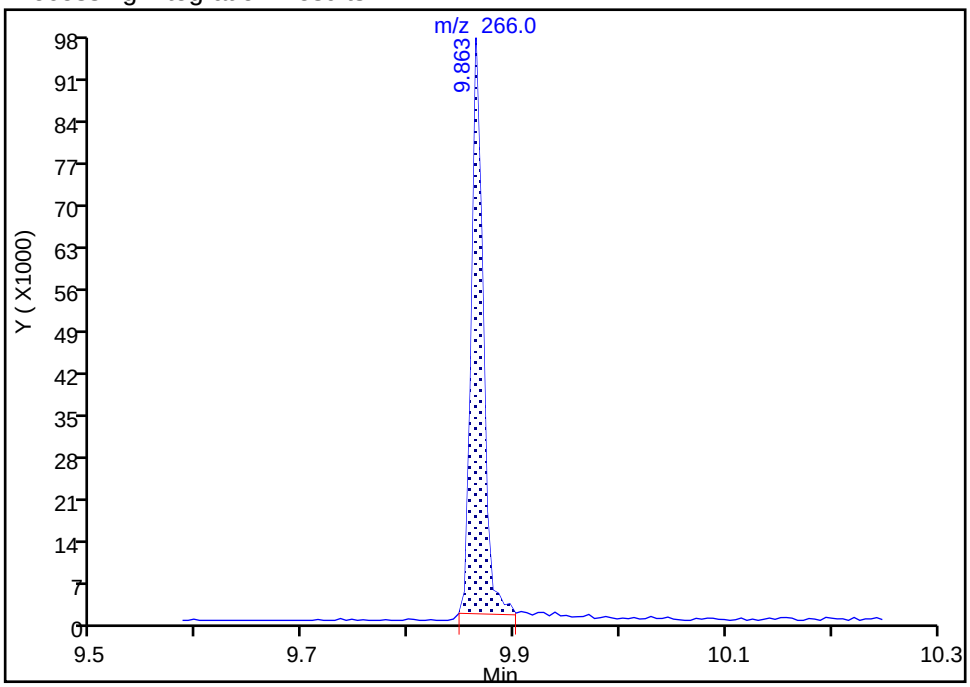
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011253.d
Injection Date: 24-Nov-2020 16:53:30 Instrument ID: HP5973W
Lims ID: IC L1 2
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

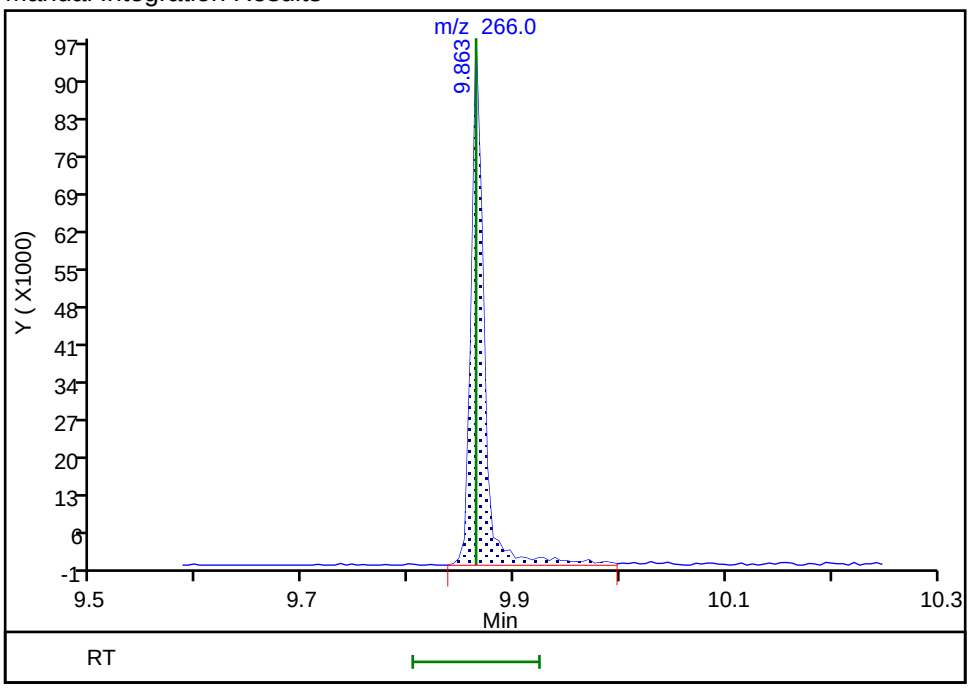
Processing Integration Results

RT: 9.86
Area: 73791
Amount: 3.044537
Amount Units: ng/uL



Manual Integration Results

RT: 9.86
Area: 82631
Amount: 3.664976
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:23:31
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011254.d
Lims ID: ICIS L1 4
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 24-Nov-2020 17:22:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-007
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:35:48 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:10:12

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	6.220	6.220	0.000	94	310325	4.00	4.00	
* 2 Naphthalene-d8	136	7.305	7.305	0.000	99	1123441	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	92	582841	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	96	963909	4.00	4.00	
* 5 Chrysene-d12	240	12.551	12.551	0.000	99	861119	4.00	4.00	
* 6 Perylene-d12	264	14.618	14.618	0.000	98	813193	4.00	4.00	
$ 7 2-Fluorophenol	112	5.072	5.072	0.000	90	368813	4.00	3.97	
$ 8 Phenol-d5	99	5.905	5.905	0.000	98	443459	4.00	4.10	
$ 9 Nitrobenzene-d5	82	6.690	6.690	0.000	88	367973	4.00	4.10	
$ 10 2-Fluorobiphenyl	172	8.191	8.191	0.000	99	868302	4.00	4.28	
$ 11 2,4,6-Tribromophenol	330	9.442	9.442	0.000	93	100308	4.00	3.78	
$ 12 p-Terphenyl-d14	244	11.354	11.354	0.000	98	844468	4.00	3.74	
14 1,4-Dioxane	88	3.058	3.058	0.000	96	151399	4.00	3.71	
15 N-Nitrosodimethylamine	42	3.544	3.544	0.000	91	178754	4.00	3.67	
16 Pyridine	52	3.581	3.581	0.000	95	447842	8.00	7.37	
36 Benzaldehyde	77	5.846	5.846	0.000	93	584207	8.00	8.52	
37 Phenol	94	5.916	5.916	0.000	98	483585	4.00	4.10	
38 Aniline	93	5.937	5.937	0.000	99	535432	4.00	4.10	
40 Bis(2-chloroethyl)ether	93	5.980	5.980	0.000	98	366824	4.00	4.00	
41 2-Chlorophenol	128	6.049	6.049	0.000	95	405774	4.00	3.97	
43 n-Decane	57	6.060	6.060	0.000	92	382092	4.00	3.98	
44 1,3-Dichlorobenzene	146	6.172	6.172	0.000	99	483425	4.00	4.03	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	97	496364	4.00	4.06	
46 Benzyl alcohol	108	6.338	6.338	0.000	95	219459	4.00	4.02	
47 1,2-Dichlorobenzene	146	6.370	6.370	0.000	99	464371	4.00	4.14	
49 2-Methylphenol	108	6.428	6.428	0.000	96	359531	4.00	4.23	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	95	530528	4.00	4.40	
48 Indene	115	6.445	6.445	0.000	91	3495658	20.0	19.3	
55 N-Nitrosodi-n-propylamine	70	6.551	6.551	0.000	90	221409	4.00	4.19	
56 4-Methylphenol	108	6.557	6.557	0.000	95	358243	4.00	4.22	
53 Acetophenone	105	6.557	6.557	0.000	96	516591	4.00	4.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.664	6.664	0.000	93	172442	4.00	4.18	
61 Nitrobenzene	77	6.706	6.706	0.000	87	366850	4.00	3.99	
63 Isophorone	82	6.904	6.904	0.000	98	647962	4.00	4.22	
67 2-Nitrophenol	139	6.979	6.979	0.000	92	208779	4.00	3.97	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	93	374201	4.00	4.07	
71 Bis(2-chloroethoxy)methane	93	7.070	7.070	0.000	100	403458	4.00	4.20	
72 Benzoic acid	105	7.107	7.107	0.000	87	1083974	20.0	20.0	a
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	91	327779	4.00	4.20	
75 1,2,4-Trichlorobenzene	180	7.257	7.257	0.000	94	385558	4.00	4.05	
76 Naphthalene	128	7.326	7.326	0.000	97	1174232	4.00	4.03	
78 4-Chloroaniline	127	7.358	7.358	0.000	97	445106	4.00	4.07	
79 2,6-Dichlorophenol	162	7.369	7.369	0.000	98	323679	4.00	4.03	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	96	233900	4.00	3.75	
84 Caprolactam	113	7.652	7.652	0.000	81	228036	8.00	7.95	
87 4-Chloro-3-methylphenol	107	7.759	7.759	0.000	94	289856	4.00	4.06	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	92	808842	4.00	4.06	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	93	744038	4.00	4.12	
93 Hexachlorocyclopentadiene	237	8.036	8.036	0.000	94	218687	4.00	4.04	
92 1,2,4,5-Tetrachlorobenzene	216	8.047	8.047	0.000	97	394374	4.00	4.22	
94 2,4,6-Trichlorophenol	196	8.133	8.133	0.000	92	230811	4.00	4.26	
95 2,4,5-Trichlorophenol	196	8.175	8.175	0.000	94	257334	4.00	4.22	
97 1,1'-Biphenyl	154	8.282	8.282	0.000	95	965066	4.00	4.32	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	96	718339	4.00	4.19	
100 2-Nitroaniline	65	8.384	8.384	0.000	91	167674	4.00	3.95	
104 Dimethyl phthalate	163	8.512	8.512	0.000	99	786546	4.00	4.15	
105 1,3-Dinitrobenzene	168	8.560	8.560	0.000	95	138854	4.00	3.94	
106 2,6-Dinitrotoluene	165	8.576	8.576	0.000	92	196220	4.00	4.11	
107 Acenaphthylene	152	8.662	8.662	0.000	98	1063487	4.00	4.33	
108 3-Nitroaniline	138	8.726	8.726	0.000	96	199152	4.00	4.19	
109 Acenaphthene	153	8.806	8.806	0.000	95	710059	4.00	4.18	
110 2,4-Dinitrophenol	184	8.816	8.816	0.000	88	168157	8.00	7.62	
111 4-Nitrophenol	109	8.859	8.859	0.000	88	178955	8.00	7.76	
113 2,4-Dinitrotoluene	165	8.918	8.918	0.000	95	227669	4.00	4.01	
114 Dibenzofuran	168	8.950	8.950	0.000	96	955194	4.00	4.07	
117 2,3,4,6-Tetrachlorophenol	232	9.052	9.052	0.000	71	167615	4.00	3.76	
120 Hexadecane	57	9.089	9.089	0.000	95	374955	4.00	4.04	
119 Diethyl phthalate	149	9.094	9.094	0.000	99	710360	4.00	3.88	
122 4-Chlorophenyl phenyl ether	204	9.212	9.212	0.000	91	370542	4.00	3.78	
125 4-Nitroaniline	138	9.238	9.238	0.000	91	189014	4.00	3.88	
123 Fluorene	166	9.238	9.238	0.000	94	750954	4.00	3.97	
126 4,6-Dinitro-2-methylphenol	198	9.265	9.265	0.000	93	232160	8.00	7.38	
128 Diphenylamine	169	9.308	9.308	0.000	94	537575	3.42	3.36	
129 N-Nitrosodiphenylamine	169	9.308	9.308	0.000	100	537575	4.00	3.93	
130 1,2-Diphenylhydrazine	77	9.345	9.345	0.000	98	640423	4.00	3.95	
131 Azobenzene	77	9.345	9.345	0.000	98	640423	4.00	3.96	
137 4-Bromophenyl phenyl ether	248	9.623	9.623	0.000	63	230641	4.00	3.97	
138 Hexachlorobenzene	284	9.709	9.709	0.000	93	227648	4.00	3.70	
141 Atrazine	200	9.730	9.730	0.000	95	416736	8.00	8.08	
146 n-Octadecane	57	9.853	9.853	0.000	95	370980	4.00	3.99	
143 Pentachlorophenol	266	9.864	9.864	0.000	92	217699	8.00	6.95	M
149 Phenanthrene	178	10.045	10.045	0.000	97	1080455	4.00	4.06	
150 Anthracene	178	10.088	10.088	0.000	97	1083790	4.00	4.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	96	897888	4.00	3.93	
154 Di-n-butyl phthalate	149	10.441	10.441	0.000	100	1095684	4.00	3.91	
161 Fluoranthene	202	11.044	11.044	0.000	97	1035396	4.00	3.68	
164 Benzidine	184	11.130	11.130	0.000	99	884273	8.00	8.00	
165 Pyrene	202	11.253	11.253	0.000	98	1072247	4.00	4.01	
172 Butyl benzyl phthalate	149	11.808	11.808	0.000	97	404041	4.00	3.77	
180 Bis(2-ethylhexyl) phthalate	149	12.455	12.455	0.000	94	636907	4.00	4.01	
177 3,3'-Dichlorobenzidine	252	12.476	12.476	0.000	73	770937	8.00	8.09	
179 Benzo[a]anthracene	228	12.540	12.540	0.000	98	1078942	4.00	3.99	
181 Chrysene	228	12.588	12.588	0.000	96	1052948	4.00	3.96	
184 Di-n-octyl phthalate	149	13.325	13.325	0.000	99	913709	4.00	3.82	
186 Benzo[b]fluoranthene	252	14.036	14.036	0.000	96	1016641	4.00	4.44	
187 Benzo[k]fluoranthene	252	14.073	14.073	0.000	99	1068821	4.00	4.66	
189 Benzo[a]pyrene	252	14.533	14.533	0.000	76	844266	4.00	4.25	
193 Indeno[1,2,3-cd]pyrene	276	16.264	16.264	0.000	98	1184449	4.00	4.37	
194 Dibenz(a,h)anthracene	278	16.269	16.269	0.000	88	1001646	4.00	4.40	
195 Benzo[g,h,i]perylene	276	16.712	16.712	0.000	98	920686	4.00	4.36	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00466	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

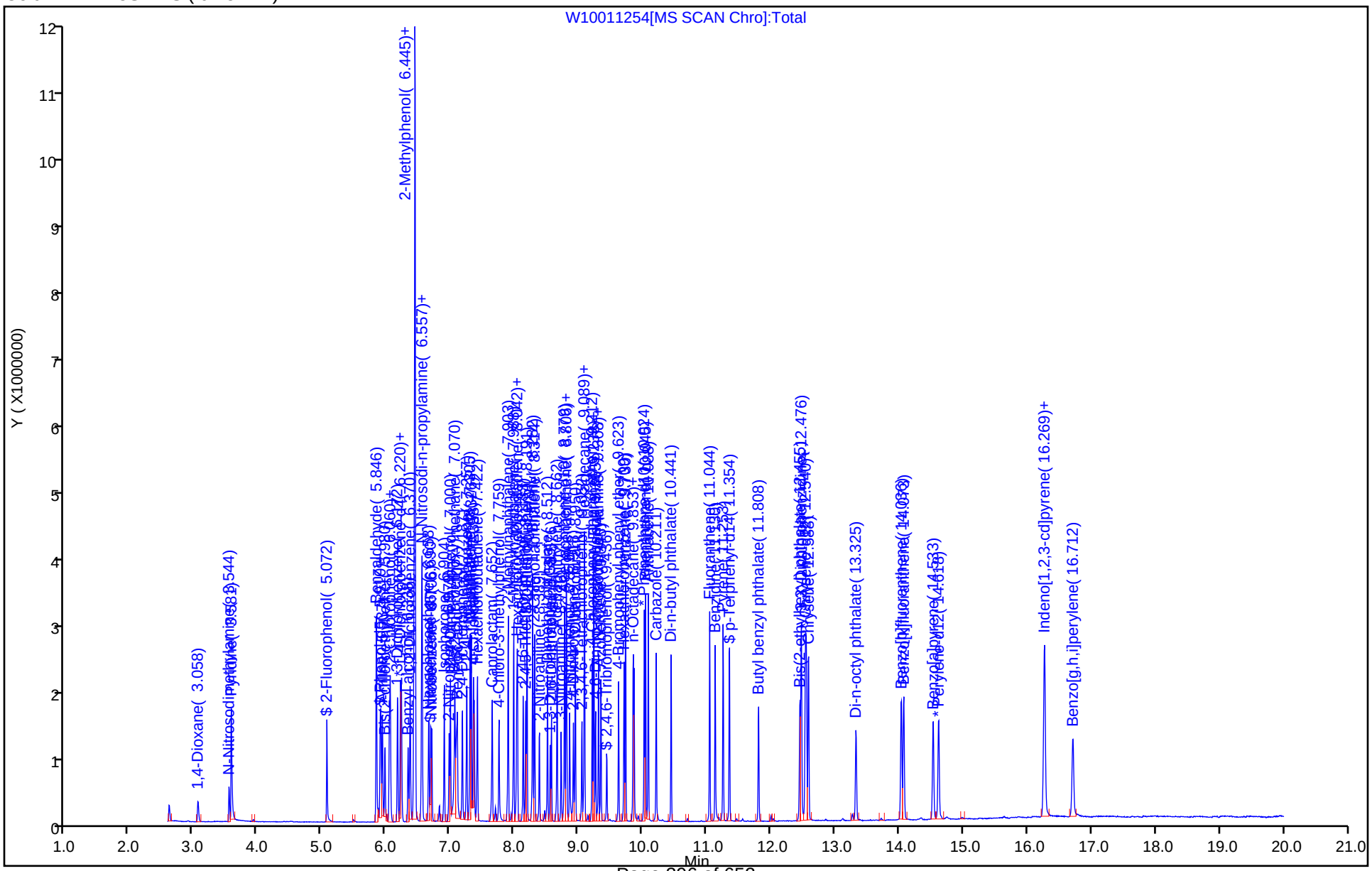
Report Date: 25-Nov-2020 12:35:49 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011254.d

Injection Date:	24-Nov-2020 17:22:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	ICIS L1 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

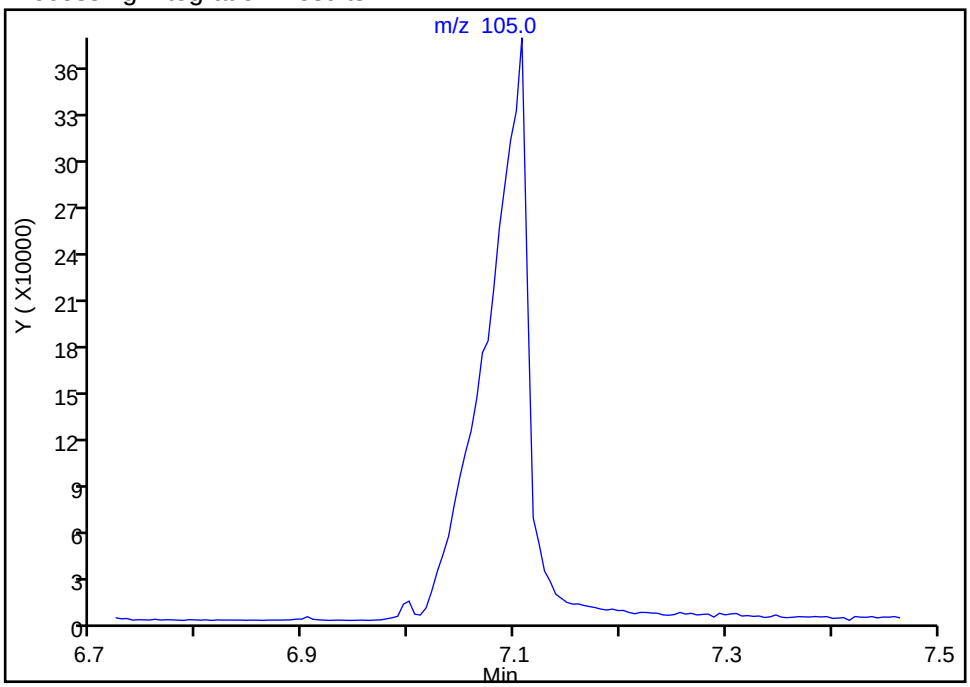
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011254.d
Injection Date: 24-Nov-2020 17:22:30 Instrument ID: HP5973W
Lims ID: ICIS L1 4
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

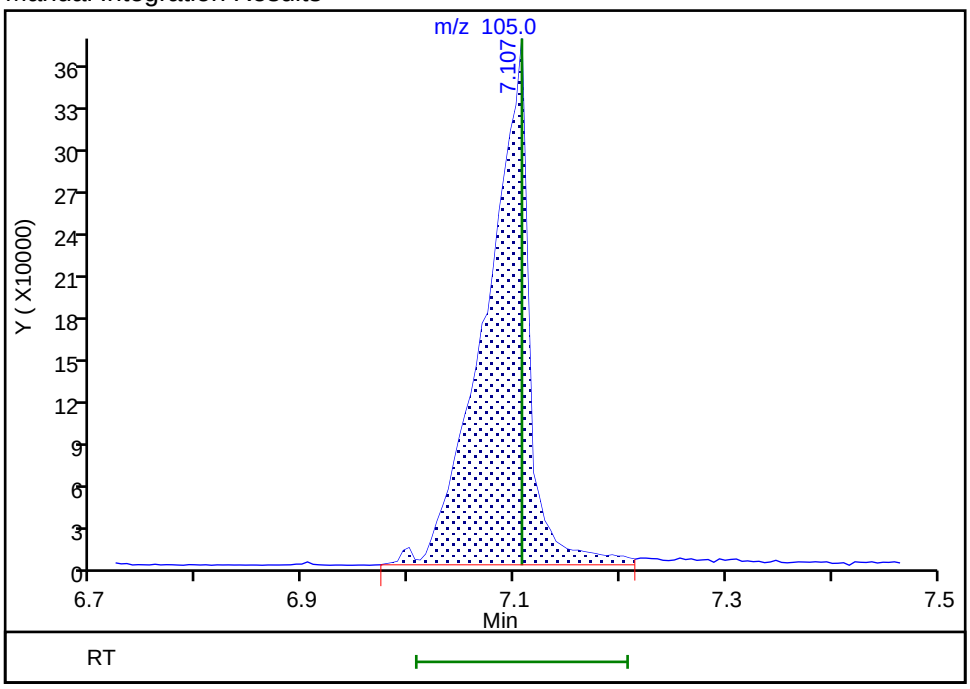
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.11
Area: 1083974
Amount: 19.965168
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:09:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

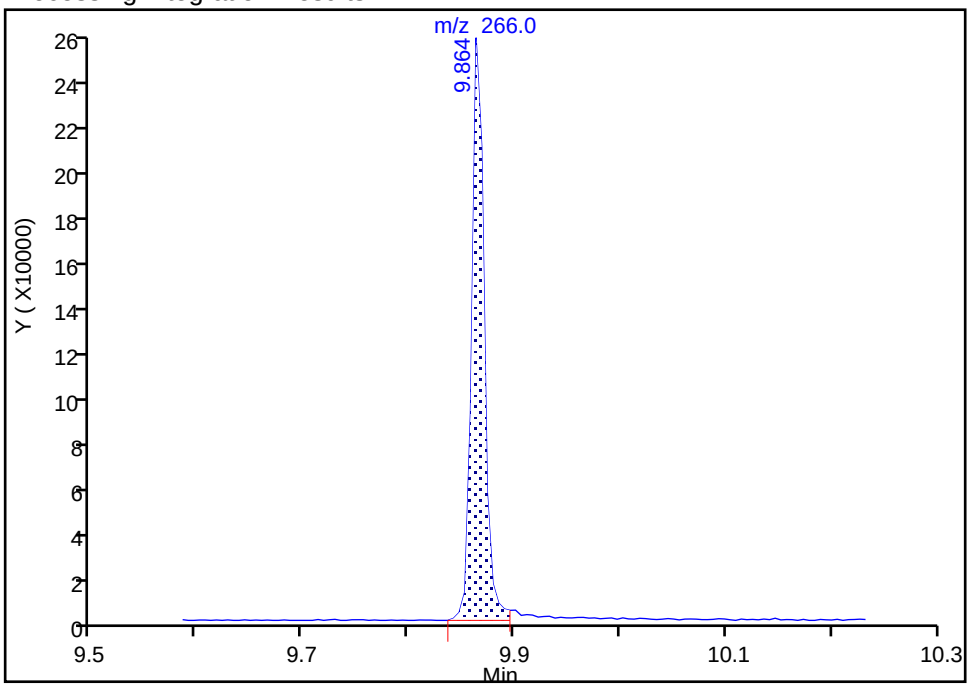
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011254.d
Injection Date: 24-Nov-2020 17:22:30 Instrument ID: HP5973W
Lims ID: ICIS L1 4
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

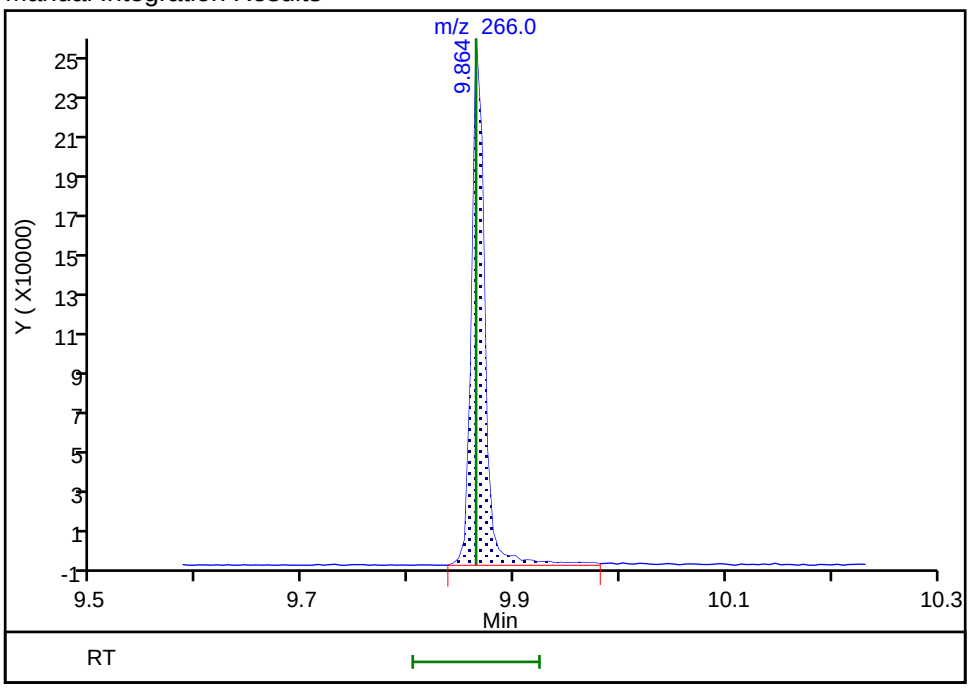
Processing Integration Results

RT: 9.86
Area: 209120
Amount: 6.584775
Amount Units: ng/uL



Manual Integration Results

RT: 9.86
Area: 217699
Amount: 6.948920
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:09:30
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011255.d
Lims ID: IC L1 8
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-Nov-2020 17:50:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-008
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:36:00 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:25:15

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	6.220	6.220	0.000	95	286577	4.00	4.00	
* 2 Naphthalene-d8	136	7.310	7.305	0.005	99	943860	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	92	514835	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	845914	4.00	4.00	
* 5 Chrysene-d12	240	12.556	12.551	0.005	99	839232	4.00	4.00	
* 6 Perylene-d12	264	14.618	14.618	0.000	99	854034	4.00	4.00	
$ 7 2-Fluorophenol	112	5.071	5.072	-0.001	90	741337	8.00	8.64	
$ 8 Phenol-d5	99	5.905	5.905	0.000	99	843890	8.00	8.44	
$ 9 Nitrobenzene-d5	82	6.695	6.690	0.005	88	656320	8.00	8.67	
$ 10 2-Fluorobiphenyl	172	8.197	8.191	0.006	99	1358752	8.00	7.59	
$ 11 2,4,6-Tribromophenol	330	9.441	9.442	-0.001	93	195464	8.00	8.40	
$ 12 p-Terphenyl-d14	244	11.354	11.354	0.000	98	1854374	8.00	8.44	
14 1,4-Dioxane	88	3.057	3.058	-0.001	97	289895	8.00	7.70	
15 N-Nitrosodimethylamine	42	3.549	3.544	0.005	91	355111	8.00	7.89	
16 Pyridine	52	3.576	3.581	-0.005	92	891156	16.0	15.6	
36 Benzaldehyde	77	5.846	5.846	0.000	93	1042374	16.0	16.5	
37 Phenol	94	5.916	5.916	0.000	99	921290	8.00	8.46	
38 Aniline	93	5.942	5.937	0.005	98	1004832	8.00	8.33	
40 Bis(2-chloroethyl)ether	93	5.980	5.980	0.000	97	693674	8.00	8.20	
41 2-Chlorophenol	128	6.049	6.049	0.000	95	779586	8.00	8.27	
43 n-Decane	57	6.060	6.060	0.000	92	724885	8.00	8.18	
44 1,3-Dichlorobenzene	146	6.177	6.172	0.005	99	892519	8.00	8.06	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	95	899146	8.00	7.97	
46 Benzyl alcohol	108	6.338	6.338	0.000	95	426218	8.00	8.22	
47 1,2-Dichlorobenzene	146	6.370	6.370	0.000	98	842263	8.00	8.13	
49 2-Methylphenol	108	6.428	6.428	0.000	97	676710	8.00	8.62	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	93	937913	8.00	8.42	
48 Indene	115	6.450	6.445	0.006	92	5478809	40.0	36.0	
55 N-Nitrosodi-n-propylamine	70	6.551	6.551	0.000	90	418291	8.00	8.44	
56 4-Methylphenol	108	6.557	6.557	0.000	97	686543	8.00	8.76	
53 Acetophenone	105	6.562	6.557	0.005	96	983359	8.00	8.70	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.663	6.664	-0.001	93	317120	8.00	8.31	
61 Nitrobenzene	77	6.712	6.706	0.006	87	679569	8.00	8.80	
63 Isophorone	82	6.904	6.904	0.000	98	1139042	8.00	8.83	
67 2-Nitrophenol	139	6.979	6.979	0.000	94	384651	8.00	8.59	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	94	651907	8.00	8.43	
71 Bis(2-chloroethoxy)methane	93	7.069	7.070	-0.001	100	685281	8.00	8.50	
72 Benzoic acid	105	7.139	7.107	0.032	91	1948938	40.0	41.1	a
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	91	551793	8.00	8.41	
75 1,2,4-Trichlorobenzene	180	7.256	7.257	-0.001	94	631137	8.00	7.88	
76 Naphthalene	128	7.326	7.326	0.000	98	1905354	8.00	7.79	
78 4-Chloroaniline	127	7.358	7.358	0.000	97	778274	8.00	8.47	
79 2,6-Dichlorophenol	162	7.374	7.369	0.005	98	548463	8.00	8.13	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	96	410638	8.00	7.83	
84 Caprolactam	113	7.673	7.652	0.021	81	371936	16.0	15.1	
87 4-Chloro-3-methylphenol	107	7.759	7.759	0.000	95	485433	8.00	8.03	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	92	1281426	8.00	7.65	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	93	1184177	8.00	7.81	
93 Hexachlorocyclopentadiene	237	8.036	8.036	0.000	96	391842	8.00	7.97	
92 1,2,4,5-Tetrachlorobenzene	216	8.047	8.047	0.000	97	646775	8.00	7.83	
94 2,4,6-Trichlorophenol	196	8.138	8.133	0.005	91	390893	8.00	8.16	
95 2,4,5-Trichlorophenol	196	8.175	8.175	0.000	95	398238	8.00	7.31	
97 1,1'-Biphenyl	154	8.282	8.282	0.000	95	1448630	8.00	7.34	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	97	1090822	8.00	7.21	
100 2-Nitroaniline	65	8.389	8.384	0.005	89	303607	8.00	7.91	
104 Dimethyl phthalate	163	8.517	8.512	0.005	99	1310839	8.00	7.82	
105 1,3-Dinitrobenzene	168	8.560	8.560	0.000	93	231805	8.00	7.64	
106 2,6-Dinitrotoluene	165	8.576	8.576	0.000	95	321745	8.00	7.54	
107 Acenaphthylene	152	8.667	8.662	0.005	98	1687896	8.00	7.78	
108 3-Nitroaniline	138	8.731	8.726	0.005	96	350464	8.00	8.21	
109 Acenaphthene	153	8.811	8.806	0.005	93	1176404	8.00	7.83	
110 2,4-Dinitrophenol	184	8.816	8.816	0.000	86	350451	16.0	15.6	
111 4-Nitrophenol	109	8.864	8.859	0.005	89	345962	16.0	16.2	
113 2,4-Dinitrotoluene	165	8.918	8.918	0.000	95	418108	8.00	8.24	
114 Dibenzofuran	168	8.950	8.950	0.000	96	1797241	8.00	8.67	
117 2,3,4,6-Tetrachlorophenol	232	9.051	9.052	-0.001	71	348165	8.00	8.65	
120 Hexadecane	57	9.089	9.089	0.000	95	695861	8.00	8.50	
119 Diethyl phthalate	149	9.094	9.094	0.000	99	1358275	8.00	8.40	
122 4-Chlorophenyl phenyl ether	204	9.212	9.212	0.000	93	744852	8.00	8.61	
125 4-Nitroaniline	138	9.244	9.238	0.006	90	388163	8.00	8.83	
123 Fluorene	166	9.238	9.238	0.000	93	1448407	8.00	8.67	
126 4,6-Dinitro-2-methylphenol	198	9.270	9.265	0.005	92	489845	16.0	16.6	
128 Diphenylamine	169	9.313	9.308	0.005	94	999336	6.84	7.11	
129 N-Nitrosodiphenylamine	169	9.313	9.308	0.005	100	999336	8.00	8.32	
130 1,2-Diphenylhydrazine	77	9.351	9.345	0.006	98	1162580	8.00	8.12	
131 Azobenzene	77	9.351	9.345	0.006	98	1162580	8.00	8.19	
137 4-Bromophenyl phenyl ether	248	9.623	9.623	0.000	64	410304	8.00	8.05	
138 Hexachlorobenzene	284	9.708	9.709	-0.001	94	468158	8.00	8.67	
141 Atrazine	200	9.735	9.730	0.005	95	760176	16.0	16.7	
146 n-Octadecane	57	9.853	9.853	0.000	94	713299	8.00	8.74	
143 Pentachlorophenol	266	9.869	9.864	0.005	94	499897	16.0	15.6	M
149 Phenanthrene	178	10.045	10.045	0.000	97	1867298	8.00	8.00	
150 Anthracene	178	10.088	10.088	0.000	98	1980385	8.00	8.43	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	96	1640384	8.00	8.17	
154 Di-n-butyl phthalate	149	10.446	10.441	0.006	100	2348258	8.00	9.55	
161 Fluoranthene	202	11.044	11.044	0.000	97	1963361	8.00	7.94	
164 Benzidine	184	11.135	11.130	0.005	99	1520261	16.0	14.1	
165 Pyrene	202	11.258	11.253	0.005	98	2006142	8.00	7.69	
172 Butyl benzyl phthalate	149	11.808	11.808	0.000	97	863756	8.00	8.18	
180 Bis(2-ethylhexyl) phthalate	149	12.454	12.455	-0.001	95	1371901	8.00	8.72	
177 3,3'-Dichlorobenzidine	252	12.476	12.476	0.000	73	1633294	16.0	17.6	
179 Benzo[a]anthracene	228	12.540	12.540	0.000	98	2145918	8.00	8.14	
181 Chrysene	228	12.588	12.588	0.000	96	2110817	8.00	8.15	
184 Di-n-octyl phthalate	149	13.331	13.325	0.006	99	1928721	8.00	8.14	
186 Benzo[b]fluoranthene	252	14.036	14.036	0.000	96	1928290	8.00	8.01	
187 Benzo[k]fluoranthene	252	14.078	14.073	0.005	98	1905463	8.00	7.91	
189 Benzo[a]pyrene	252	14.533	14.533	0.000	77	1768473	8.00	8.46	
193 Indeno[1,2,3-cd]pyrene	276	16.274	16.264	0.010	98	2479591	8.00	8.68	
194 Dibenz(a,h)anthracene	278	16.279	16.269	0.010	91	2081230	8.00	8.68	
195 Benzo[g,h,i]perylene	276	16.718	16.712	0.006	98	1832769	8.00	8.26	
S 262 Total Cresols	1				0			17.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00463	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

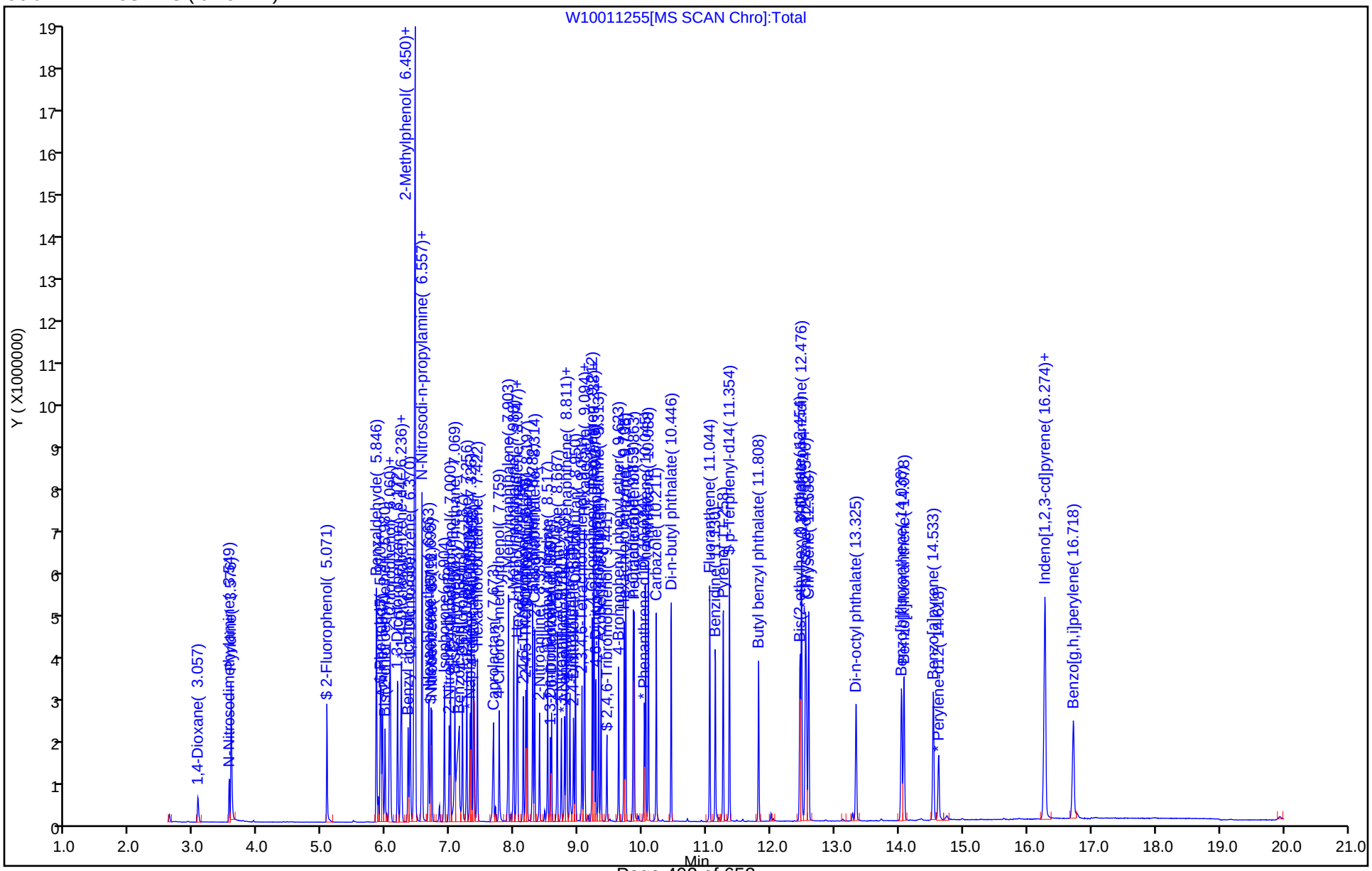
Report Date: 25-Nov-2020 12:36:01 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011255.d

Injection Date:	24-Nov-2020 17:50:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 8			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

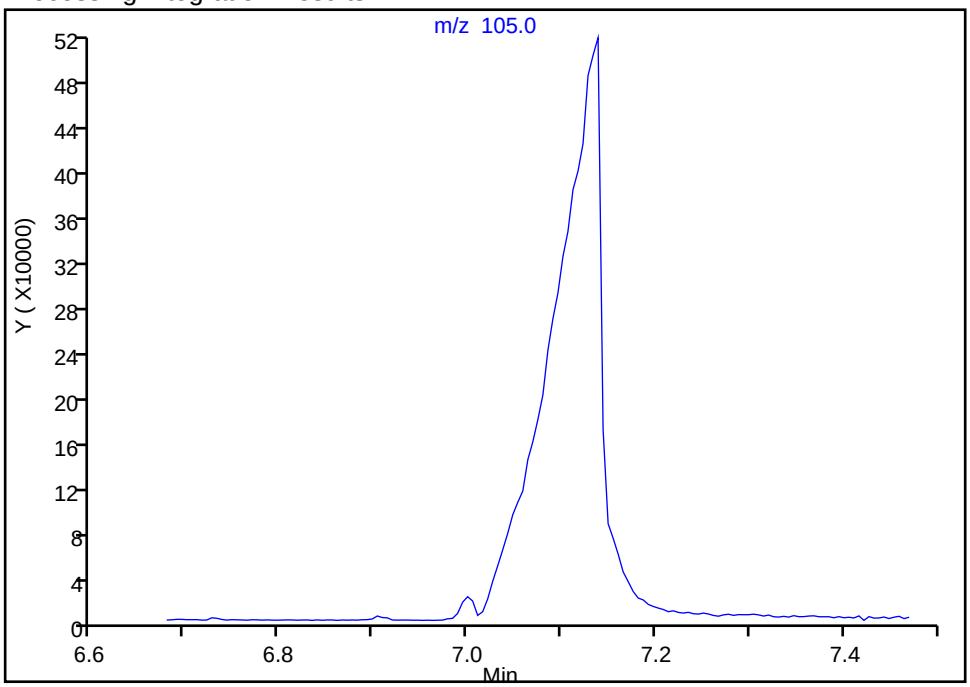
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011255.d
Injection Date: 24-Nov-2020 17:50:30 Instrument ID: HP5973W
Lims ID: IC L1 8
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

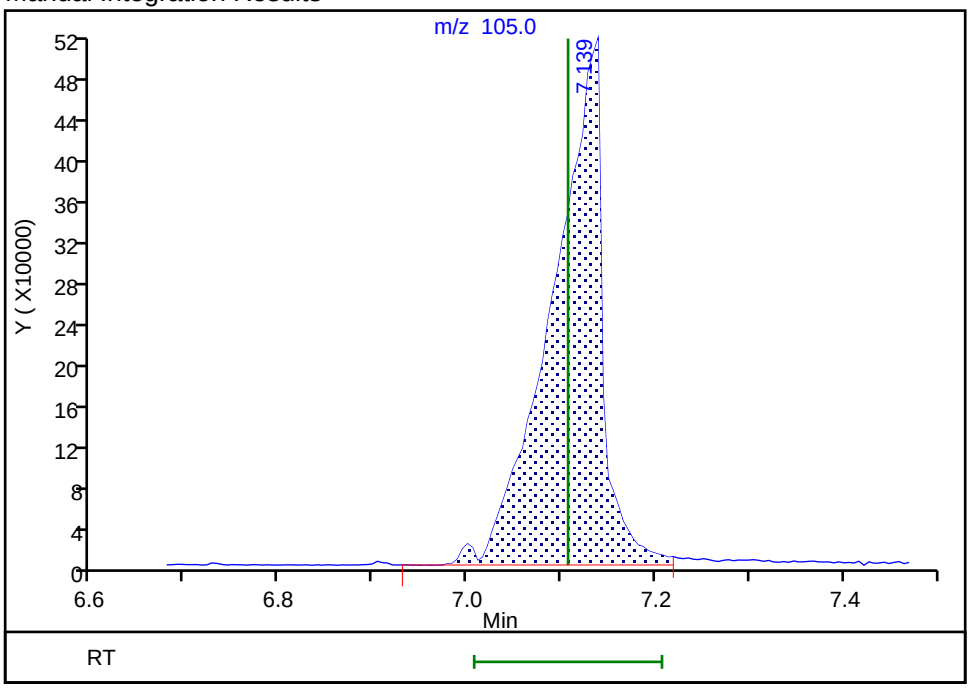
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.14
Area: 1948938
Amount: 41.072472
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:24:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

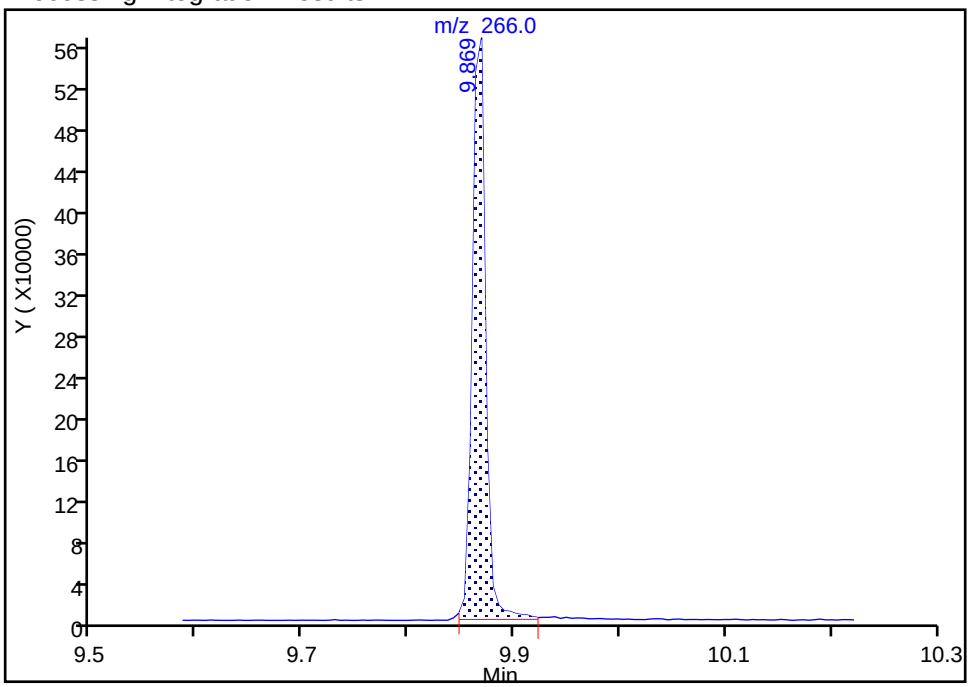
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011255.d
Injection Date: 24-Nov-2020 17:50:30 Instrument ID: HP5973W
Lims ID: IC L1 8
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

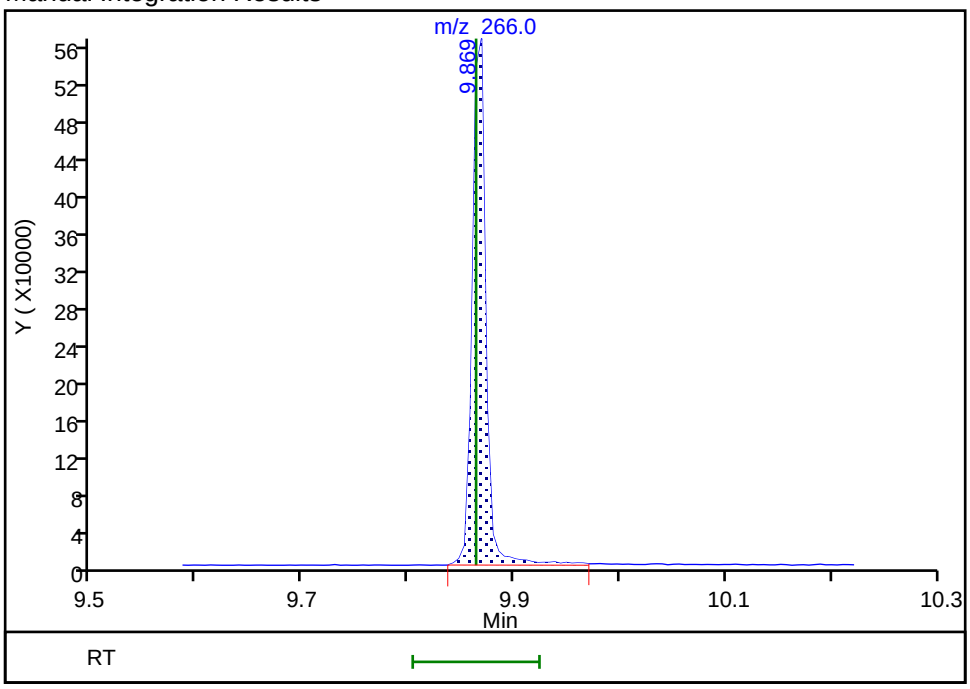
Processing Integration Results

RT: 9.87
Area: 488456
Amount: 15.525319
Amount Units: ng/uL



Manual Integration Results

RT: 9.87
Area: 499897
Amount: 15.619798
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:25:02
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011256.d
Lims ID: IC L1 12
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Nov-2020 18:18:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-009
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:36:11 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:27:26

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	6.220	6.220	0.000	95	268396	4.00	4.00	
* 2 Naphthalene-d8	136	7.310	7.305	0.005	99	1045745	4.00	4.00	
* 3 Acenaphthene-d10	164	8.784	8.779	0.005	93	541150	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	833611	4.00	4.00	
* 5 Chrysene-d12	240	12.556	12.551	0.005	99	935608	4.00	4.00	
* 6 Perylene-d12	264	14.618	14.618	0.000	99	875192	4.00	4.00	
$ 7 2-Fluorophenol	112	5.071	5.072	-0.001	91	1030510	12.0	12.8	
$ 8 Phenol-d5	99	5.910	5.905	0.005	99	1141053	12.0	12.2	
$ 9 Nitrobenzene-d5	82	6.695	6.690	0.005	89	904376	12.0	10.8	
$ 10 2-Fluorobiphenyl	172	8.197	8.191	0.006	99	2151290	12.0	11.4	
$ 11 2,4,6-Tribromophenol	330	9.441	9.442	-0.001	93	317951	12.0	13.9	
$ 12 p-Terphenyl-d14	244	11.354	11.354	0.000	98	2653547	12.0	10.8	
14 1,4-Dioxane	88	3.068	3.058	0.010	96	441580	12.0	12.5	
15 N-Nitrosodimethylamine	42	3.554	3.544	0.010	91	537209	12.0	12.7	
16 Pyridine	52	3.581	3.581	0.000	92	1386104	24.0	25.8	
36 Benzaldehyde	77	5.846	5.846	0.000	92	1356639	24.0	22.9	
37 Phenol	94	5.921	5.916	0.005	99	1180334	12.0	11.6	
38 Aniline	93	5.942	5.937	0.005	98	1457925	12.0	12.9	
40 Bis(2-chloroethyl)ether	93	5.985	5.980	0.005	97	957438	12.0	12.1	
41 2-Chlorophenol	128	6.049	6.049	0.000	96	1076084	12.0	12.2	
43 n-Decane	57	6.060	6.060	0.000	93	987385	12.0	11.9	
44 1,3-Dichlorobenzene	146	6.177	6.172	0.005	99	1230127	12.0	11.9	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	94	1228564	12.0	11.6	
46 Benzyl alcohol	108	6.343	6.338	0.005	94	584449	12.0	11.9	
47 1,2-Dichlorobenzene	146	6.375	6.370	0.005	98	1151456	12.0	11.9	
49 2-Methylphenol	108	6.434	6.428	0.006	93	891157	12.0	12.1	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	93	1170803	12.0	11.2	
48 Indene	115	6.455	6.445	0.011	91	6524741	60.0	38.7	
55 N-Nitrosodi-n-propylamine	70	6.557	6.551	0.006	89	544089	12.0	11.7	
56 4-Methylphenol	108	6.557	6.557	0.000	94	885842	12.0	12.1	
53 Acetophenone	105	6.562	6.557	0.005	94	1267373	12.0	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.663	6.664	-0.001	92	426444	12.0	11.9	
61 Nitrobenzene	77	6.711	6.706	0.005	88	906967	12.0	10.6	
63 Isophorone	82	6.909	6.904	0.005	98	1641694	12.0	11.5	
67 2-Nitrophenol	139	6.984	6.979	0.005	91	544480	12.0	10.9	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	96	943799	12.0	11.0	
71 Bis(2-chloroethoxy)methane	93	7.069	7.070	-0.001	100	969821	12.0	10.9	
72 Benzoic acid	105	7.166	7.107	0.059	88	3033558	60.0	57.1	a
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	92	832046	12.0	11.4	
75 1,2,4-Trichlorobenzene	180	7.256	7.257	-0.001	94	1033984	12.0	11.7	
76 Naphthalene	128	7.326	7.326	0.000	98	3084121	12.0	11.4	
78 4-Chloroaniline	127	7.363	7.358	0.005	97	1204455	12.0	11.8	
79 2,6-Dichlorophenol	162	7.374	7.369	0.005	98	904836	12.0	12.1	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	96	678115	12.0	11.7	
84 Caprolactam	113	7.689	7.652	0.037	81	644546	24.0	23.4	
87 4-Chloro-3-methylphenol	107	7.764	7.759	0.005	95	828464	12.0	12.3	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	92	2065183	12.0	11.1	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	93	1753195	12.0	10.4	
93 Hexachlorocyclopentadiene	237	8.036	8.036	0.000	94	597359	12.0	11.5	
92 1,2,4,5-Tetrachlorobenzene	216	8.047	8.047	0.000	97	953780	12.0	11.0	
94 2,4,6-Trichlorophenol	196	8.138	8.133	0.005	91	601808	12.0	12.0	
95 2,4,5-Trichlorophenol	196	8.175	8.175	0.000	95	671770	12.0	11.7	
97 1,1'-Biphenyl	154	8.287	8.282	0.005	96	2647314	12.0	12.8	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	98	2050489	12.0	12.9	
100 2-Nitroaniline	65	8.389	8.384	0.005	90	519935	12.0	12.8	
104 Dimethyl phthalate	163	8.522	8.512	0.010	99	2257978	12.0	12.8	
105 1,3-Dinitrobenzene	168	8.565	8.560	0.005	90	395594	12.0	11.7	
106 2,6-Dinitrotoluene	165	8.581	8.576	0.005	94	552119	12.0	12.2	
107 Acenaphthylene	152	8.667	8.662	0.005	98	2801934	12.0	12.3	
108 3-Nitroaniline	138	8.731	8.726	0.005	97	530924	12.0	11.8	
109 Acenaphthene	153	8.811	8.806	0.005	94	1871275	12.0	11.9	
110 2,4-Dinitrophenol	184	8.822	8.816	0.006	86	601127	24.0	24.4	
111 4-Nitrophenol	109	8.870	8.859	0.011	89	573448	24.0	25.2	
113 2,4-Dinitrotoluene	165	8.923	8.918	0.005	95	621006	12.0	11.6	
114 Dibenzofuran	168	8.950	8.950	0.000	96	2337165	12.0	10.7	
117 2,3,4,6-Tetrachlorophenol	232	9.051	9.052	-0.001	72	494401	12.0	11.6	
120 Hexadecane	57	9.089	9.089	0.000	95	1125062	12.0	13.1	
119 Diethyl phthalate	149	9.099	9.094	0.005	98	2135630	12.0	12.6	
122 4-Chlorophenyl phenyl ether	204	9.217	9.212	0.005	91	1090675	12.0	12.0	
125 4-Nitroaniline	138	9.249	9.238	0.011	88	562241	12.0	12.1	
123 Fluorene	166	9.238	9.238	0.000	94	2111605	12.0	12.0	
126 4,6-Dinitro-2-methylphenol	198	9.270	9.265	0.005	89	777234	24.0	26.3	
128 Diphenylamine	169	9.313	9.308	0.005	94	1540230	10.3	11.1	
129 N-Nitrosodiphenylamine	169	9.313	9.308	0.005	99	1540230	12.0	13.0	
130 1,2-Diphenylhydrazine	77	9.351	9.345	0.006	98	1884411	12.0	12.5	
131 Azobenzene	77	9.351	9.345	0.006	98	1884411	12.0	13.5	
137 4-Bromophenyl phenyl ether	248	9.628	9.623	0.005	64	646851	12.0	12.9	
138 Hexachlorobenzene	284	9.714	9.709	0.005	94	671317	12.0	12.6	
141 Atrazine	200	9.741	9.730	0.010	95	1104877	24.0	23.1	
146 n-Octadecane	57	9.853	9.853	0.000	95	1136818	12.0	14.1	
143 Pentachlorophenol	266	9.869	9.864	0.005	92	840407	24.0	25.5	M
149 Phenanthrene	178	10.045	10.045	0.000	98	2697655	12.0	11.7	
150 Anthracene	178	10.088	10.088	0.000	98	2885160	12.0	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	96	2456522	12.0	12.4	
154 Di-n-butyl phthalate	149	10.446	10.441	0.006	100	3045635	12.0	12.6	
161 Fluoranthene	202	11.049	11.044	0.005	97	2962424	12.0	12.2	
164 Benzidine	184	11.135	11.130	0.005	99	2533018	24.0	21.1	
165 Pyrene	202	11.258	11.253	0.005	96	3202747	12.0	11.0	
172 Butyl benzyl phthalate	149	11.808	11.808	0.000	97	1413883	12.0	12.0	
180 Bis(2-ethylhexyl) phthalate	149	12.454	12.455	-0.001	95	1860951	12.0	10.6	
177 3,3'-Dichlorobenzidine	252	12.481	12.476	0.005	73	2170220	24.0	20.9	
179 Benzo[a]anthracene	228	12.545	12.540	0.005	98	3523438	12.0	12.0	
181 Chrysene	228	12.593	12.588	0.005	96	3339327	12.0	11.6	
184 Di-n-octyl phthalate	149	13.330	13.325	0.005	99	3488251	12.0	13.1	
186 Benzo[b]fluoranthene	252	14.041	14.036	0.005	96	2938511	12.0	11.9	
187 Benzo[k]fluoranthene	252	14.084	14.073	0.011	98	2735856	12.0	11.1	
189 Benzo[a]pyrene	252	14.538	14.533	0.005	78	2640701	12.0	12.3	
193 Indeno[1,2,3-cd]pyrene	276	16.279	16.264	0.015	98	3394876	12.0	11.6	
194 Dibenz(a,h)anthracene	278	16.285	16.269	0.016	91	2808674	12.0	11.4	
195 Benzo[g,h,i]perylene	276	16.728	16.712	0.016	98	2711166	12.0	11.9	
S 262 Total Cresols	1				0			24.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00464	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

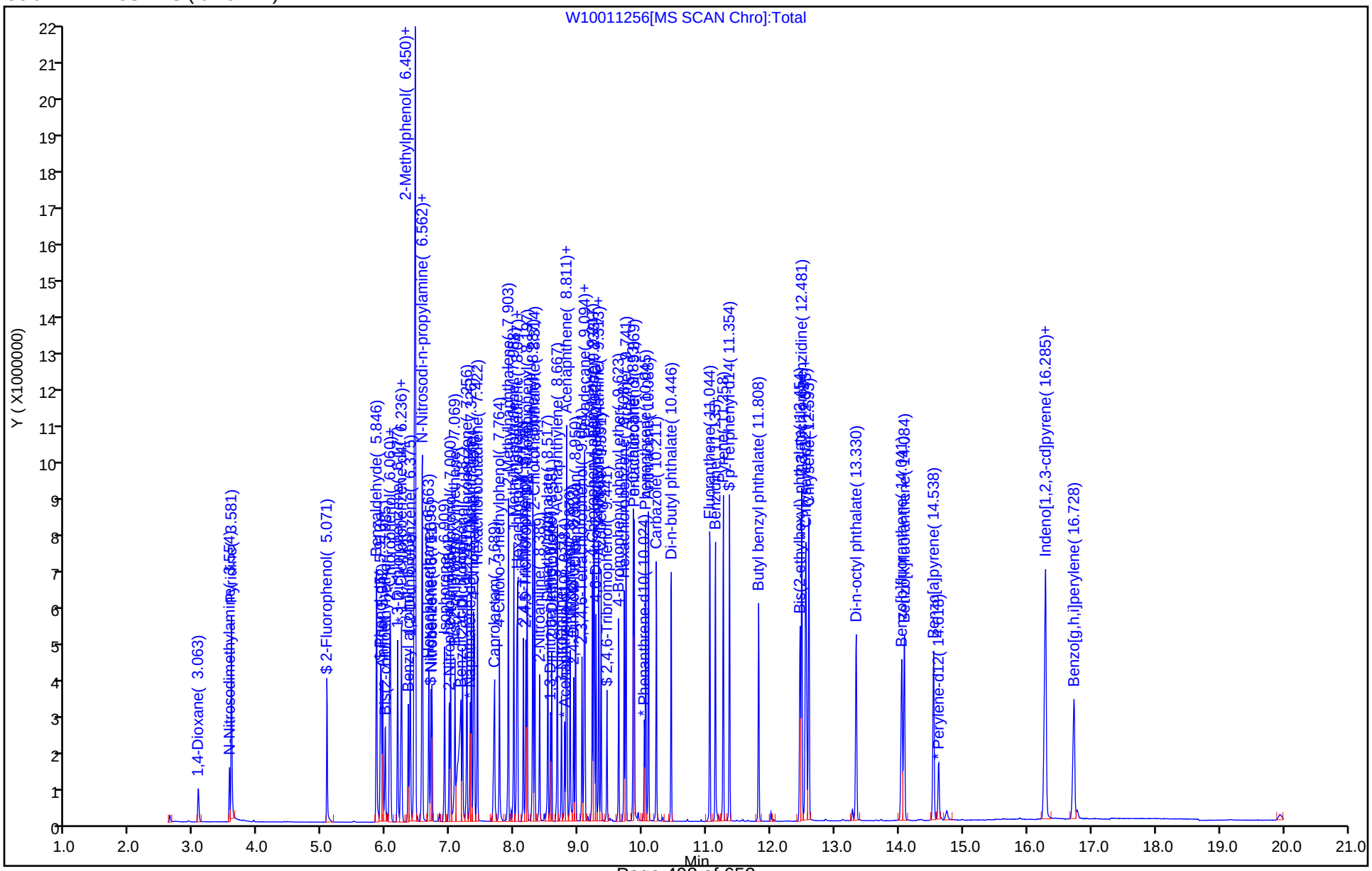
Report Date: 25-Nov-2020 12:36:12 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011256.d

Injection Date:	24-Nov-2020 18:18:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 12			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

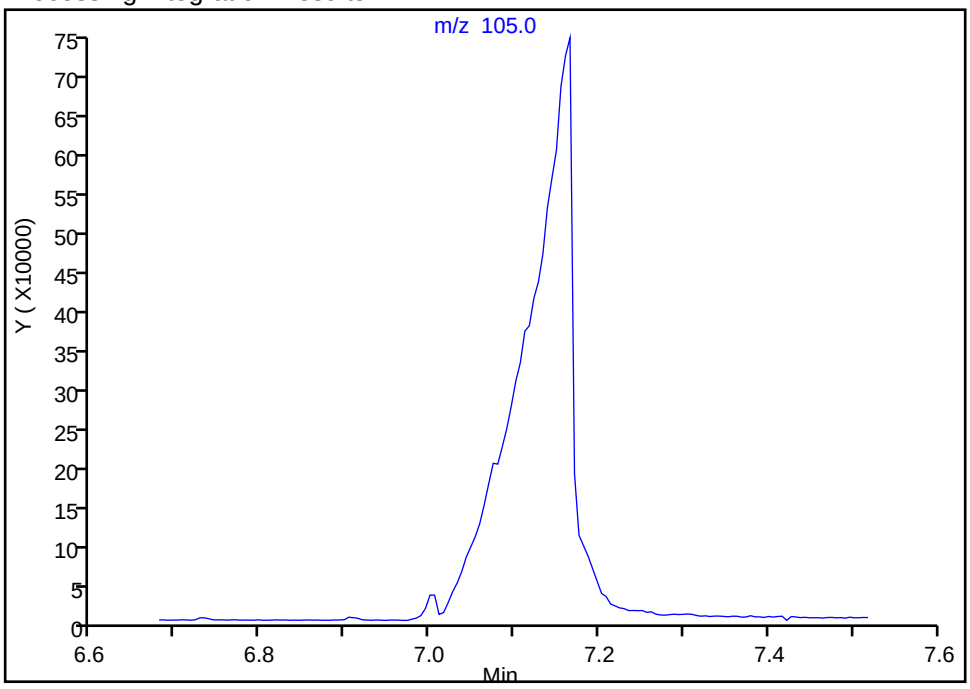
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011256.d
Injection Date: 24-Nov-2020 18:18:30 Instrument ID: HP5973W
Lims ID: IC L1 12
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

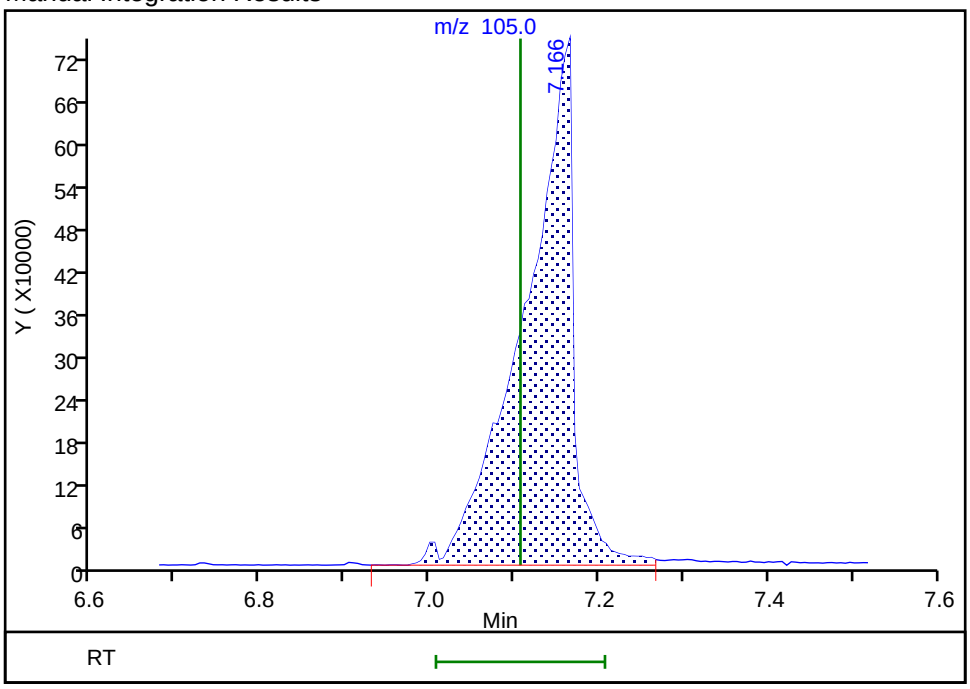
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.17
Area: 3033558
Amount: 57.114156
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:25:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

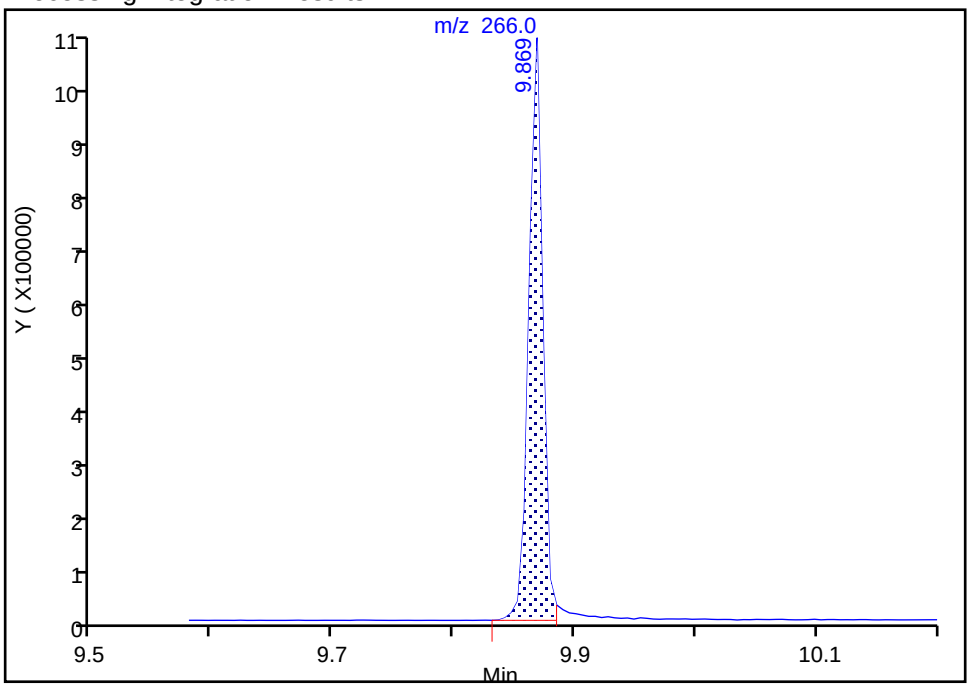
Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011256.d				
Injection Date:	24-Nov-2020 18:18:30	Instrument ID:	HP5973W		
Lims ID:	IC L1 12				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

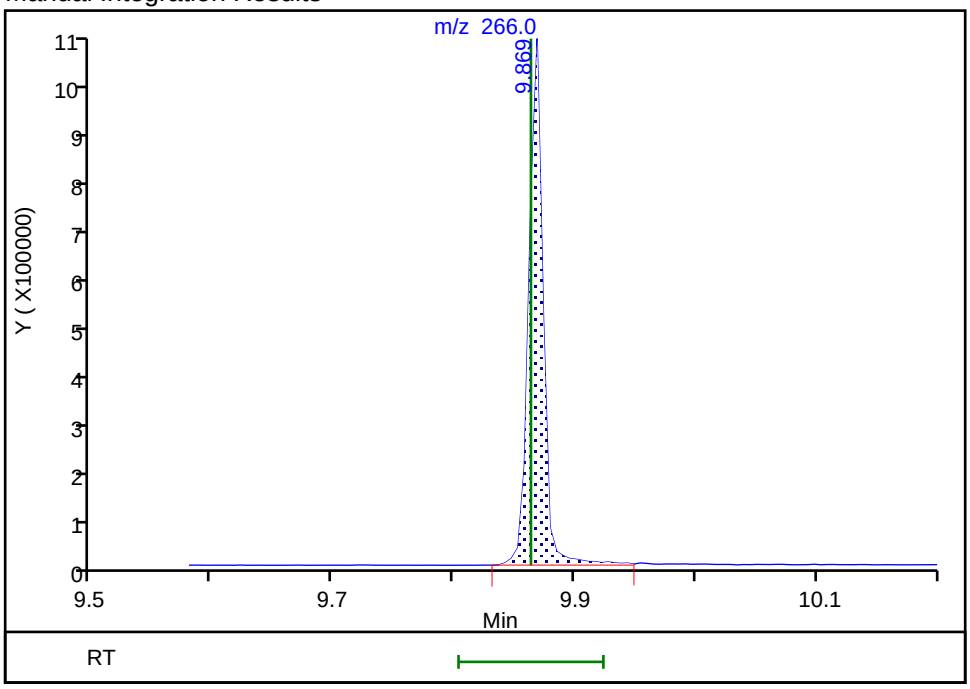
Processing Integration Results

RT: 9.87
Area: 812628
Amount: 25.308005
Amount Units: ng/uL



Manual Integration Results

RT: 9.87
Area: 840407
Amount: 25.527832
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:29:21
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d
Lims ID: IC L1 16
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Nov-2020 18:47:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-010
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:36:22 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 11:28:45

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	6.220	6.220	0.000	94	265847	4.00	4.00	
* 2 Naphthalene-d8	136	7.310	7.305	0.005	99	891034	4.00	4.00	
* 3 Acenaphthene-d10	164	8.784	8.779	0.005	93	533760	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	97	871483	4.00	4.00	
* 5 Chrysene-d12	240	12.561	12.551	0.010	99	784238	4.00	4.00	
* 6 Perylene-d12	264	14.618	14.618	0.000	99	898490	4.00	4.00	
$ 7 2-Fluorophenol	112	5.072	5.072	0.000	91	1249335	16.0	15.7	
$ 8 Phenol-d5	99	5.910	5.905	0.005	98	1380621	16.0	14.9	
$ 9 Nitrobenzene-d5	82	6.696	6.690	0.006	88	1165080	16.0	16.3	
$ 10 2-Fluorobiphenyl	172	8.197	8.191	0.006	98	3107031	16.0	16.7	
$ 11 2,4,6-Tribromophenol	330	9.441	9.442	-0.001	93	462531	16.0	19.3	
$ 12 p-Terphenyl-d14	244	11.354	11.354	0.000	98	3406947	16.0	16.6	
14 1,4-Dioxane	88	3.063	3.058	0.005	96	577986	16.0	16.6	
15 N-Nitrosodimethylamine	42	3.560	3.544	0.016	89	714569	16.0	17.1	
16 Pyridine	52	3.581	3.581	0.000	92	1805124	32.0	33.9	
36 Benzaldehyde	77	5.846	5.846	0.000	92	1543197	32.0	26.3	
37 Phenol	94	5.921	5.916	0.005	98	1512142	16.0	15.0	
38 Aniline	93	5.942	5.937	0.005	98	1642145	16.0	14.7	
40 Bis(2-chloroethyl)ether	93	5.985	5.980	0.005	97	1105517	16.0	14.1	
41 2-Chlorophenol	128	6.049	6.049	0.000	96	1443547	16.0	16.5	
43 n-Decane	57	6.065	6.060	0.005	91	1338070	16.0	16.3	
44 1,3-Dichlorobenzene	146	6.177	6.172	0.005	99	1606213	16.0	15.6	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	94	1619046	16.0	15.5	
46 Benzyl alcohol	108	6.343	6.338	0.005	95	789685	16.0	16.2	
47 1,2-Dichlorobenzene	146	6.375	6.370	0.005	98	1506487	16.0	15.7	
49 2-Methylphenol	108	6.434	6.428	0.006	90	1124830	16.0	15.4	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	90	1398584	16.0	13.5	
48 Indene	115	6.455	6.445	0.011	90	7593732	80.0	52.8	
55 N-Nitrosodi-n-propylamine	70	6.557	6.551	0.006	91	727972	16.0	15.7	
56 4-Methylphenol	108	6.562	6.557	0.005	96	1138945	16.0	15.7	
53 Acetophenone	105	6.567	6.557	0.010	94	1651479	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
59 Hexachloroethane	117	6.664	6.664	0.000	92	562162	16.0	15.9	
61 Nitrobenzene	77	6.717	6.706	0.011	87	1187358	16.0	16.3	
63 Isophorone	82	6.909	6.904	0.005	98	2046009	16.0	16.8	
67 2-Nitrophenol	139	6.984	6.979	0.005	92	724881	16.0	17.1	
68 2,4-Dimethylphenol	107	7.005	7.000	0.005	94	1221578	16.0	16.7	
71 Bis(2-chloroethoxy)methane	93	7.070	7.070	0.000	100	1231777	16.0	16.2	
72 Benzoic acid	105	7.187	7.107	0.080	88	4121006	80.0	90.2	a
74 2,4-Dichlorophenol	162	7.192	7.187	0.005	92	1088360	16.0	17.6	
75 1,2,4-Trichlorobenzene	180	7.257	7.257	0.000	94	1252322	16.0	16.6	
76 Naphthalene	128	7.326	7.326	0.000	99	3594193	16.0	15.6	
78 4-Chloroaniline	127	7.363	7.358	0.005	97	1485122	16.0	17.1	
79 2,6-Dichlorophenol	162	7.374	7.369	0.005	98	1067075	16.0	16.8	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	97	947455	16.0	19.1	
84 Caprolactam	113	7.700	7.652	0.048	81	862738	32.0	36.5	
87 4-Chloro-3-methylphenol	107	7.769	7.759	0.010	95	1142647	16.0	19.9	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	91	2815133	16.0	17.8	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	92	2604486	16.0	18.2	
93 Hexachlorocyclopentadiene	237	8.036	8.036	0.000	94	907929	16.0	17.5	
92 1,2,4,5-Tetrachlorobenzene	216	8.047	8.047	0.000	98	1451425	16.0	17.0	
94 2,4,6-Trichlorophenol	196	8.138	8.133	0.005	91	932718	16.0	18.8	
95 2,4,5-Trichlorophenol	196	8.181	8.175	0.006	94	1014192	16.0	17.8	
97 1,1'-Biphenyl	154	8.288	8.282	0.006	97	3326825	16.0	16.3	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	98	2627167	16.0	16.8	
100 2-Nitroaniline	65	8.394	8.384	0.010	89	693128	16.0	17.2	
104 Dimethyl phthalate	163	8.523	8.512	0.011	99	2888036	16.0	16.6	
105 1,3-Dinitrobenzene	168	8.565	8.560	0.005	91	530413	16.0	18.2	
106 2,6-Dinitrotoluene	165	8.581	8.576	0.005	96	737565	16.0	16.5	
107 Acenaphthylene	152	8.667	8.662	0.005	97	3725476	16.0	16.6	
108 3-Nitroaniline	138	8.736	8.726	0.010	97	711734	16.0	16.0	
109 Acenaphthene	153	8.811	8.806	0.005	95	2320241	16.0	14.9	
110 2,4-Dinitrophenol	184	8.822	8.816	0.006	91	802233	32.0	32.4	
111 4-Nitrophenol	109	8.870	8.859	0.011	90	773385	32.0	34.3	
113 2,4-Dinitrotoluene	165	8.923	8.918	0.005	95	833754	16.0	15.8	
114 Dibenzofuran	168	8.955	8.950	0.005	95	3138229	16.0	14.6	
117 2,3,4,6-Tetrachlorophenol	232	9.057	9.052	0.005	71	658374	16.0	15.7	
120 Hexadecane	57	9.089	9.089	0.000	96	1191322	16.0	14.0	
119 Diethyl phthalate	149	9.100	9.094	0.006	98	2415933	16.0	14.4	
122 4-Chlorophenyl phenyl ether	204	9.217	9.212	0.005	92	1315547	16.0	14.7	
125 4-Nitroaniline	138	9.255	9.238	0.017	88	673907	16.0	14.7	
123 Fluorene	166	9.238	9.238	0.000	94	2583455	16.0	14.9	
126 4,6-Dinitro-2-methylphenol	198	9.276	9.265	0.011	89	935684	32.0	30.2	
128 Diphenylamine	169	9.313	9.308	0.005	93	2008445	13.7	13.9	
129 N-Nitrosodiphenylamine	169	9.313	9.308	0.005	98	2008445	16.0	16.2	
130 1,2-Diphenylhydrazine	77	9.351	9.345	0.006	97	2458037	16.0	16.6	
131 Azobenzene	77	9.351	9.345	0.006	97	2457388	16.0	16.8	
137 4-Bromophenyl phenyl ether	248	9.628	9.623	0.005	64	904798	16.0	17.2	
138 Hexachlorobenzene	284	9.714	9.709	0.005	94	961578	16.0	17.3	
141 Atrazine	200	9.741	9.730	0.011	95	1414829	32.0	29.9	
146 n-Octadecane	57	9.853	9.853	0.000	95	1385734	16.0	16.5	
143 Pentachlorophenol	266	9.869	9.864	0.005	92	1111703	32.0	31.9	M
149 Phenanthrene	178	10.051	10.045	0.005	98	3561780	16.0	14.8	
150 Anthracene	178	10.093	10.088	0.005	98	3627175	16.0	15.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.216	10.211	0.005	97	3048655	16.0	14.7	
154 Di-n-butyl phthalate	149	10.446	10.441	0.006	100	4057820	16.0	16.0	
161 Fluoranthene	202	11.050	11.044	0.006	97	4232279	16.0	16.6	
164 Benzidine	184	11.135	11.130	0.005	99	3363532	32.0	33.4	
165 Pyrene	202	11.258	11.253	0.005	95	4036945	16.0	16.6	
172 Butyl benzyl phthalate	149	11.808	11.808	0.000	98	1753590	16.0	17.7	
180 Bis(2-ethylhexyl) phthalate	149	12.455	12.455	0.000	95	2553442	16.0	17.3	
177 3,3'-Dichlorobenzidine	252	12.487	12.476	0.011	73	2861391	32.0	33.0	
179 Benzo[a]anthracene	228	12.545	12.540	0.005	98	3823360	16.0	15.5	
181 Chrysene	228	12.599	12.588	0.011	95	3661827	16.0	15.1	
184 Di-n-octyl phthalate	149	13.331	13.325	0.006	99	4659876	16.0	20.9	
186 Benzo[b]fluoranthene	252	14.047	14.036	0.010	96	3828822	16.0	15.1	
187 Benzo[k]fluoranthene	252	14.084	14.073	0.011	98	3848258	16.0	15.2	
189 Benzo[a]pyrene	252	14.543	14.533	0.010	77	3631345	16.0	16.5	
193 Indeno[1,2,3-cd]pyrene	276	16.285	16.264	0.021	98	5025677	16.0	16.7	
194 Dibenz(a,h)anthracene	278	16.296	16.269	0.027	91	4231163	16.0	16.7	
195 Benzo[g,h,i]perylene	276	16.739	16.712	0.027	98	3815303	16.0	16.3	
S 262 Total Cresols	1				0			31.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00465	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

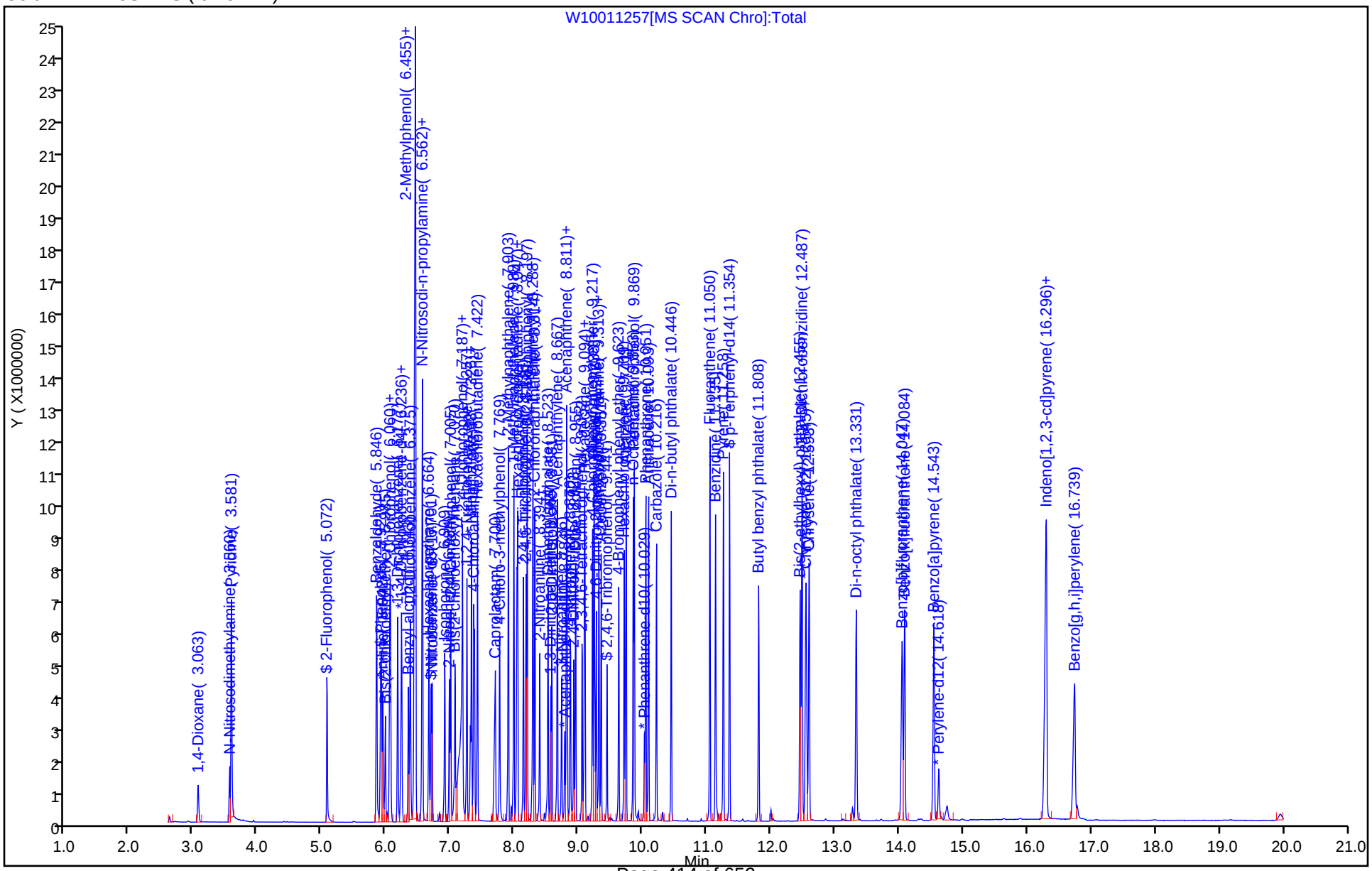
Report Date: 25-Nov-2020 12:36:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Injection Date:	24-Nov-2020 18:47:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 16			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

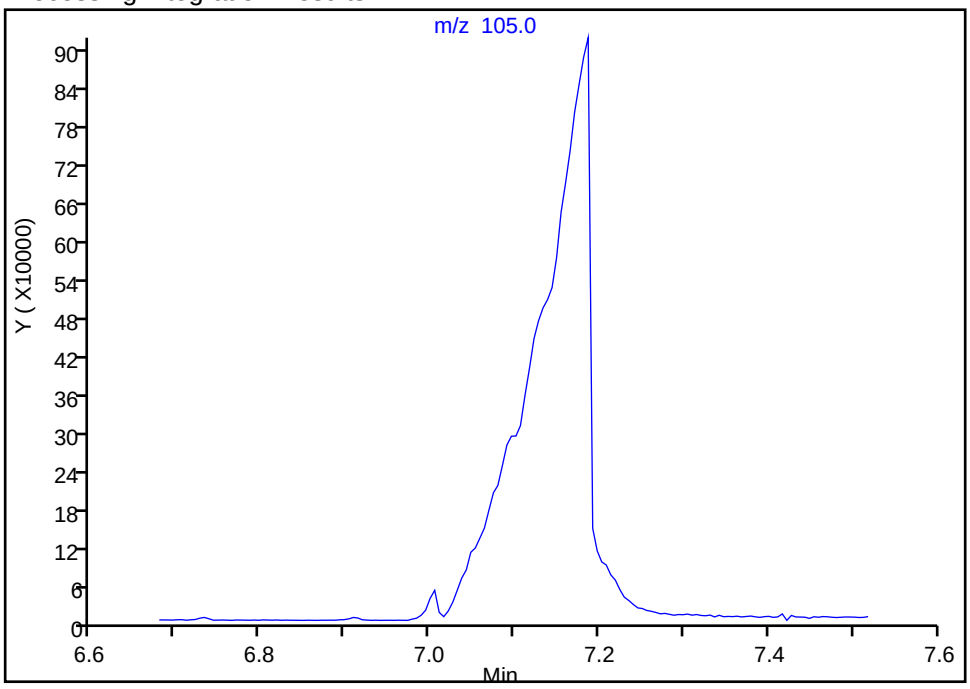
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d
Injection Date: 24-Nov-2020 18:47:30 Instrument ID: HP5973W
Lims ID: IC L1 16
Client ID:
Operator ID: PJQ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

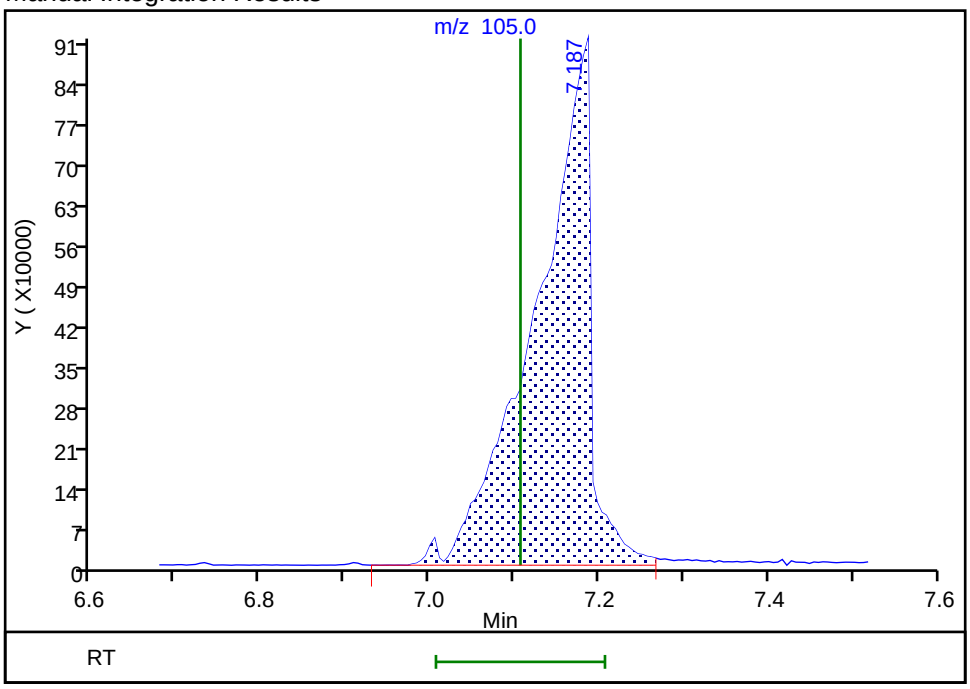
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.19
Area: 4121006
Amount: 90.197525
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:27:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

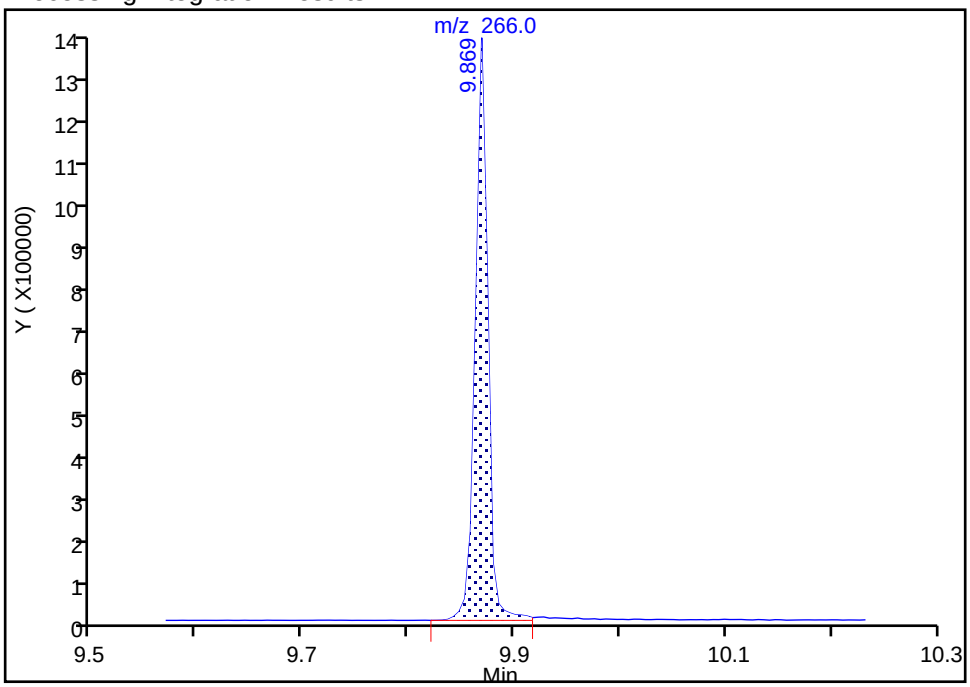
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d
Injection Date: 24-Nov-2020 18:47:30 Instrument ID: HP5973W
Lims ID: IC L1 16
Client ID:
Operator ID: PJQ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

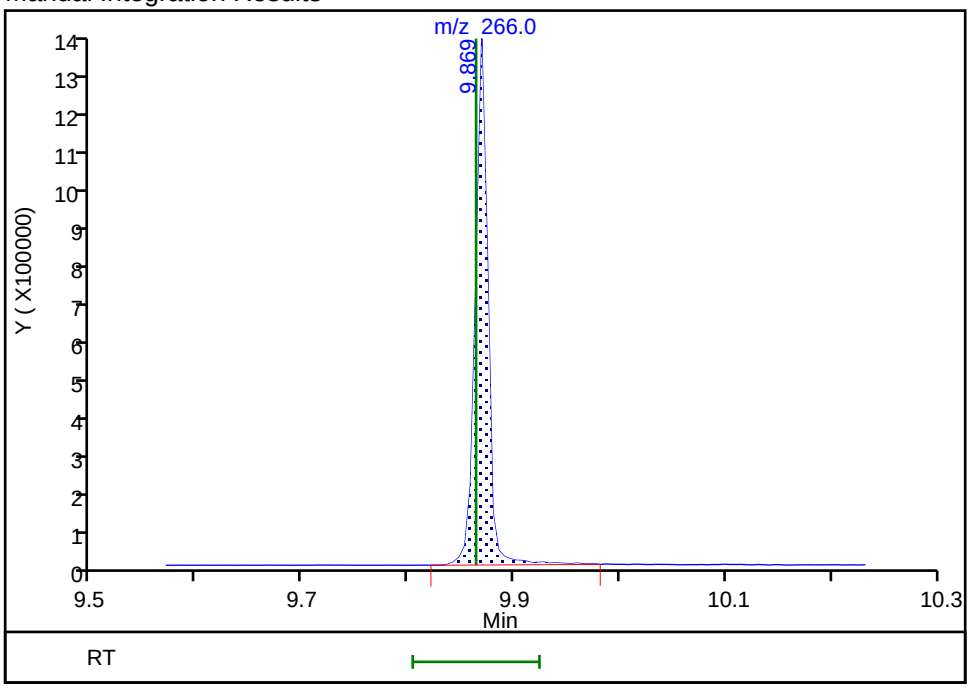
Processing Integration Results

RT: 9.87
Area: 1103969
Amount: 32.664959
Amount Units: ng/uL



Manual Integration Results

RT: 9.87
Area: 1111703
Amount: 31.880518
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 11:28:33
Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

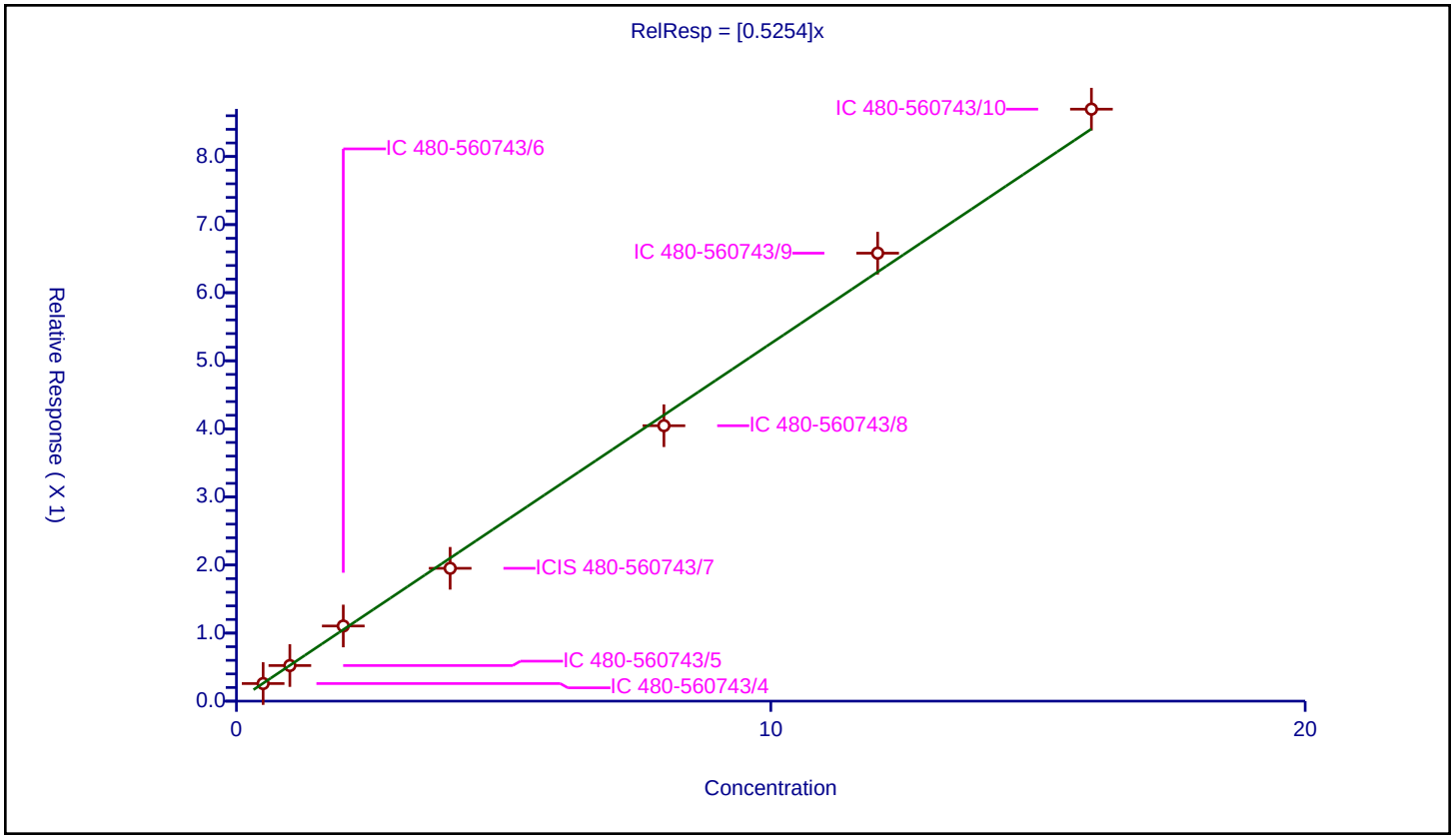
Curve Coefficients

Intercept:	0
Slope:	0.5254

Error Coefficients

Standard Error:	327000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.258563	4.0	269783.0	0.517127	Y
2	IC 480-560743/5	1.0	0.522976	4.0	292136.0	0.522976	Y
3	IC 480-560743/6	2.0	1.103989	4.0	266557.0	0.551995	Y
4	ICIS 480-560743/7	4.0	1.95149	4.0	310325.0	0.487872	Y
5	IC 480-560743/8	8.0	4.046312	4.0	286577.0	0.505789	Y
6	IC 480-560743/9	12.0	6.581022	4.0	268396.0	0.548419	Y
7	IC 480-560743/10	16.0	8.696521	4.0	265847.0	0.543533	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

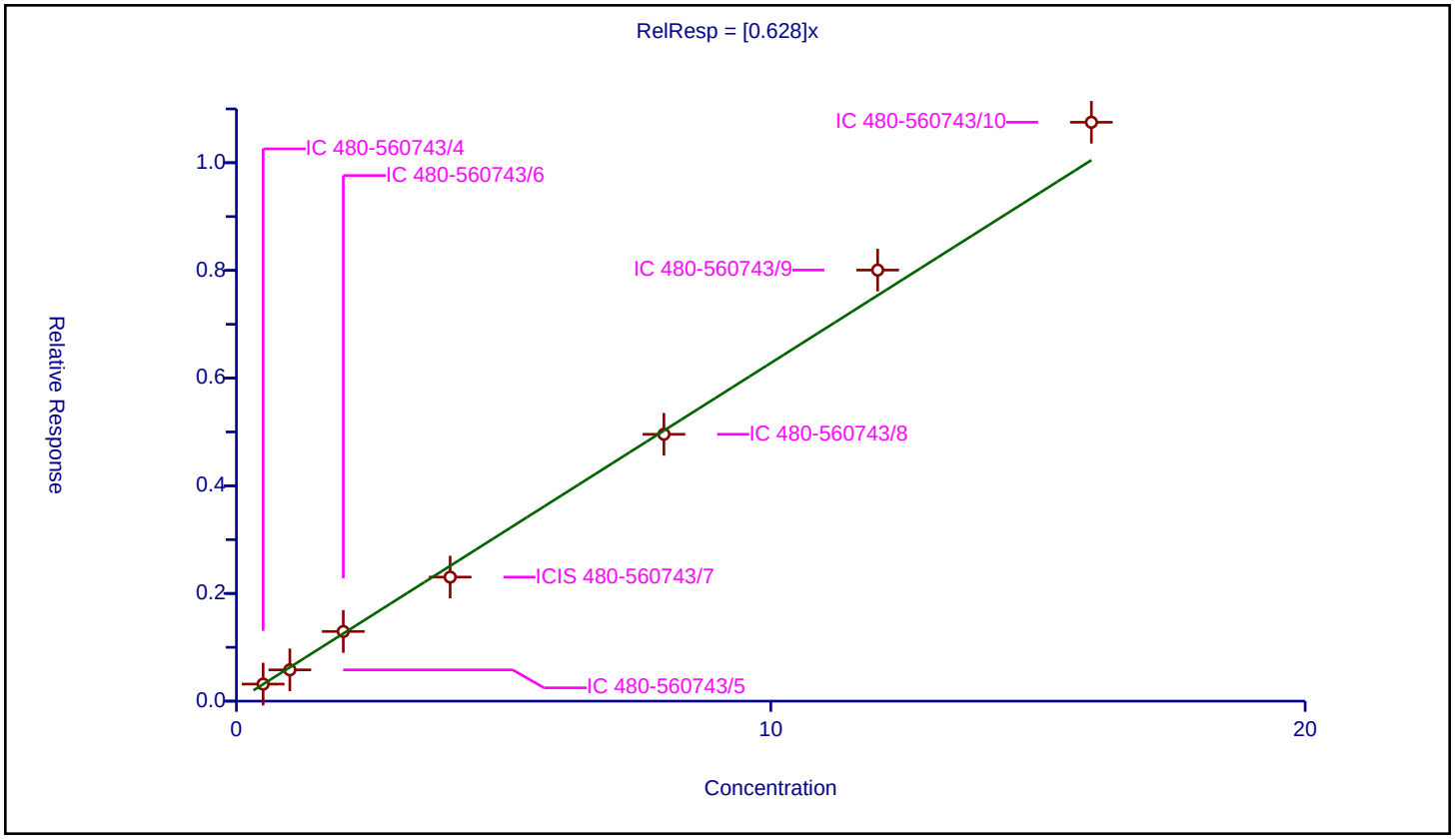
Curve Coefficients

Intercept:	0
Slope:	0.628

Error Coefficients

Standard Error:	401000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.316936	4.0	269783.0	0.633872	Y
2	IC 480-560743/5	1.0	0.58088	4.0	292136.0	0.58088	Y
3	IC 480-560743/6	2.0	1.293682	4.0	266557.0	0.646841	Y
4	ICIS 480-560743/7	4.0	2.304088	4.0	310325.0	0.576022	Y
5	IC 480-560743/8	8.0	4.956588	4.0	286577.0	0.619573	Y
6	IC 480-560743/9	12.0	8.006215	4.0	268396.0	0.667185	Y
7	IC 480-560743/10	16.0	10.751583	4.0	265847.0	0.671974	Y



Calibration / Pyridine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

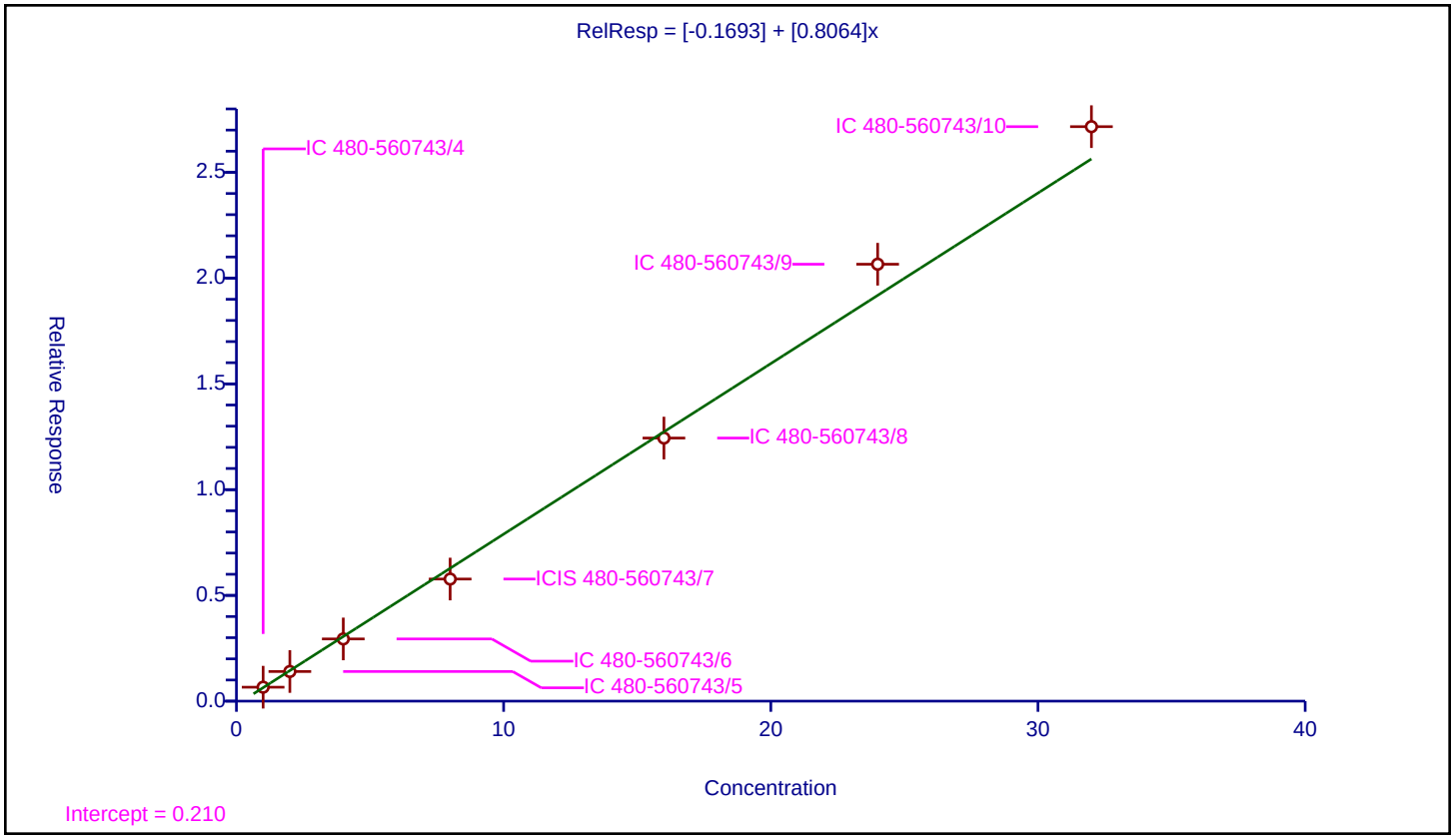
Curve Coefficients

Intercept:	-0.1693
Slope:	0.8064

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.659701	4.0	269783.0	0.659701	Y
2	IC 480-560743/5	2.0	1.401991	4.0	292136.0	0.700995	Y
3	IC 480-560743/6	4.0	2.940639	4.0	266557.0	0.73516	Y
4	ICIS 480-560743/7	8.0	5.772555	4.0	310325.0	0.721569	Y
5	IC 480-560743/8	16.0	12.438626	4.0	286577.0	0.777414	Y
6	IC 480-560743/9	24.0	20.657595	4.0	268396.0	0.860733	Y
7	IC 480-560743/10	32.0	27.160344	4.0	265847.0	0.848761	Y



Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

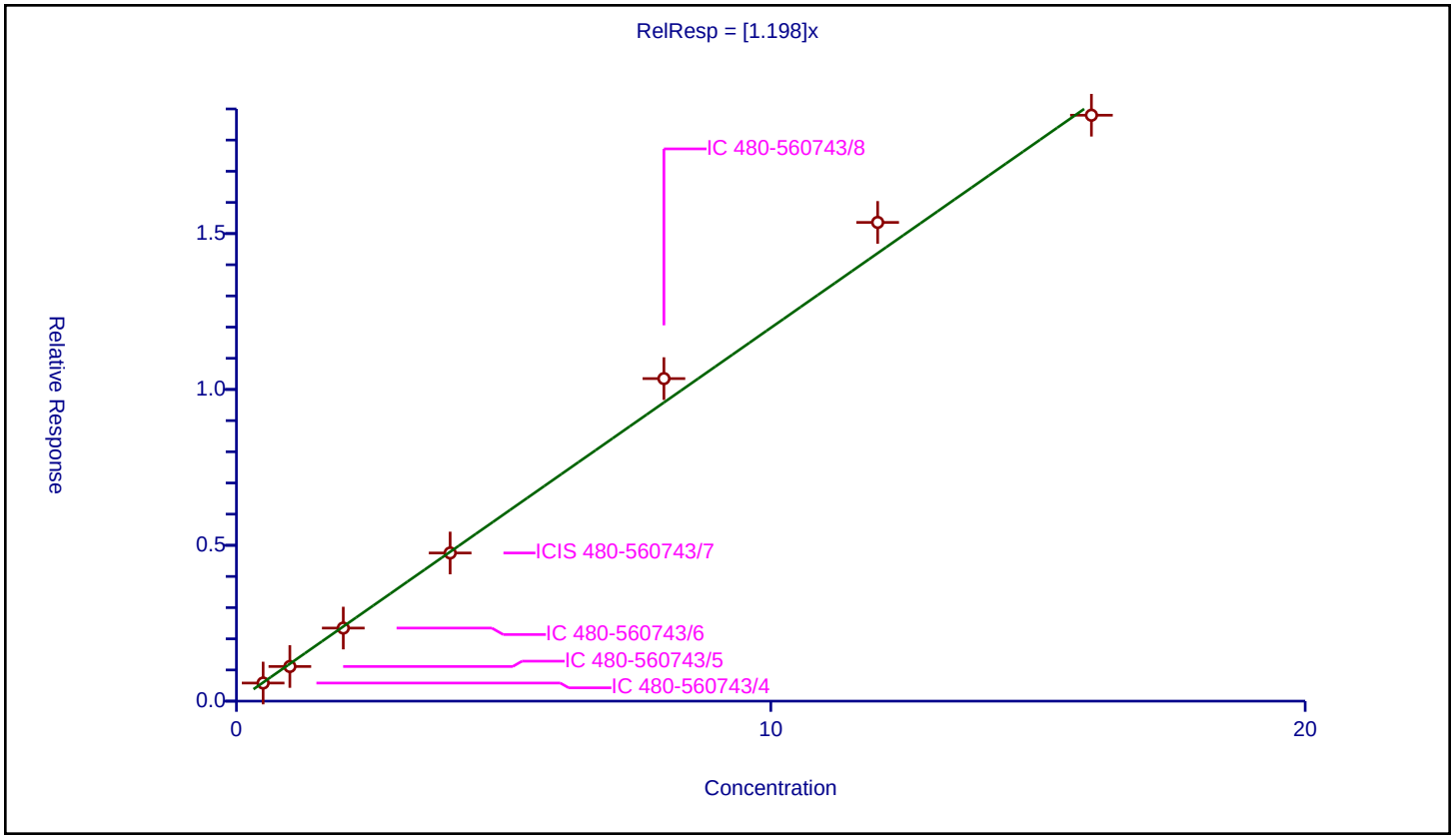
Curve Coefficients

Intercept:	0
Slope:	1.198

Error Coefficients

Standard Error:	746000
Relative Standard Error:	5.5
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.581415	4.0	269783.0	1.162831	Y
2	IC 480-560743/5	1.0	1.111428	4.0	292136.0	1.111428	Y
3	IC 480-560743/6	2.0	2.344819	4.0	266557.0	1.17241	Y
4	ICIS 480-560743/7	4.0	4.753893	4.0	310325.0	1.188473	Y
5	IC 480-560743/8	8.0	10.347474	4.0	286577.0	1.293434	Y
6	IC 480-560743/9	12.0	15.358053	4.0	268396.0	1.279838	Y
7	IC 480-560743/10	16.0	18.797805	4.0	265847.0	1.174863	Y



Calibration / Benzaldehyde

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

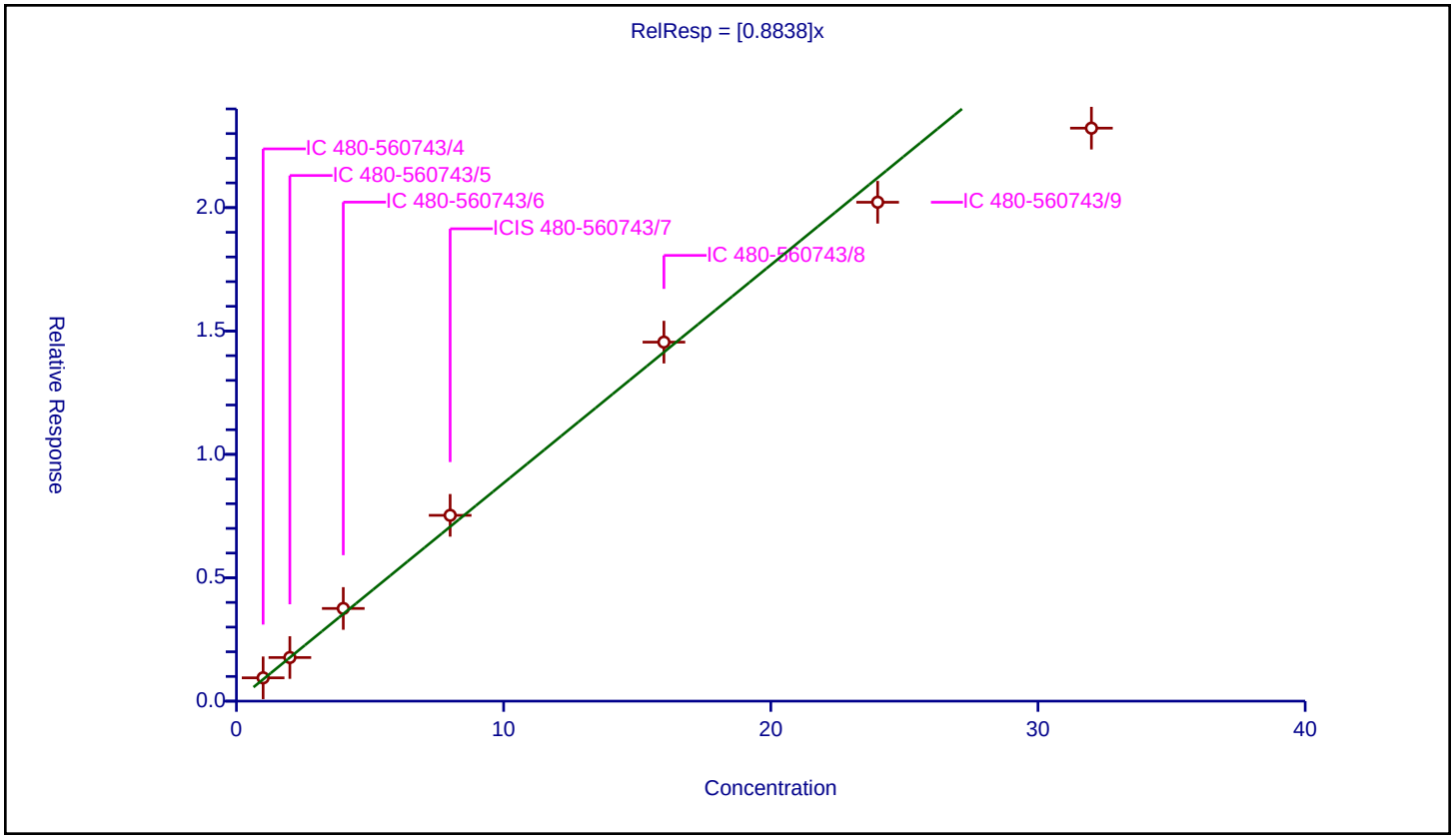
Curve Coefficients

Intercept:	0
Slope:	0.8838

Error Coefficients

Standard Error:	977000
Relative Standard Error:	8.9
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.944656	4.0	269783.0	0.944656	Y
2	IC 480-560743/5	2.0	1.76882	4.0	292136.0	0.88441	Y
3	IC 480-560743/6	4.0	3.75588	4.0	266557.0	0.93897	Y
4	ICIS 480-560743/7	8.0	7.53026	4.0	310325.0	0.941283	Y
5	IC 480-560743/8	16.0	14.549304	4.0	286577.0	0.909332	Y
6	IC 480-560743/9	24.0	20.218468	4.0	268396.0	0.842436	Y
7	IC 480-560743/10	32.0	23.219325	4.0	265847.0	0.725604	Y



Calibration / Phenol-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

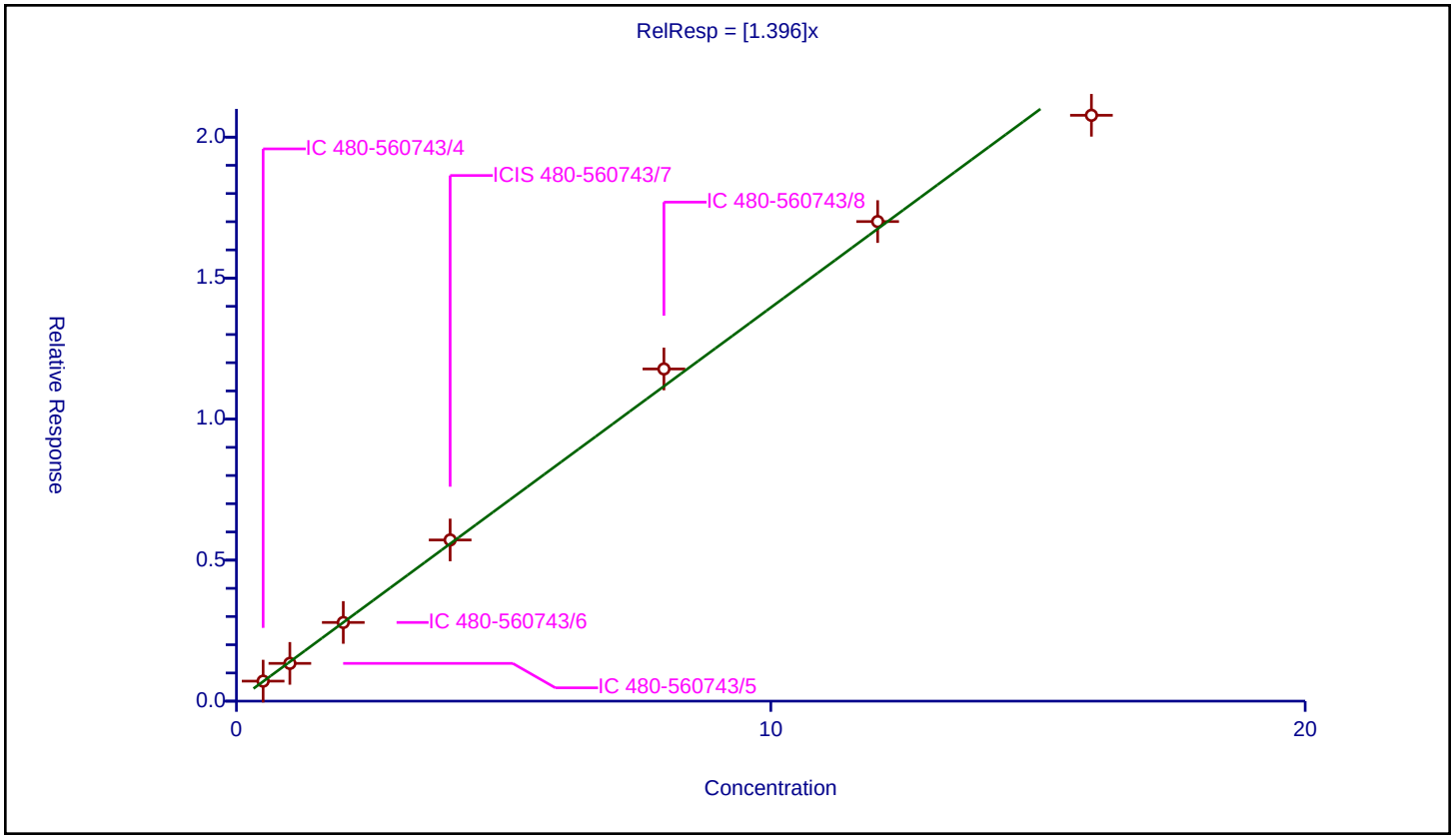
Curve Coefficients

Intercept:	0
Slope:	1.396

Error Coefficients

Standard Error:	833000
Relative Standard Error:	4.2
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.709266	4.0	269783.0	1.418533	Y
2	IC 480-560743/5	1.0	1.338993	4.0	292136.0	1.338993	Y
3	IC 480-560743/6	2.0	2.789737	4.0	266557.0	1.394869	Y
4	ICIS 480-560743/7	4.0	5.716059	4.0	310325.0	1.429015	Y
5	IC 480-560743/8	8.0	11.778894	4.0	286577.0	1.472362	Y
6	IC 480-560743/9	12.0	17.005514	4.0	268396.0	1.417126	Y
7	IC 480-560743/10	16.0	20.773167	4.0	265847.0	1.298323	Y



Calibration / Phenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

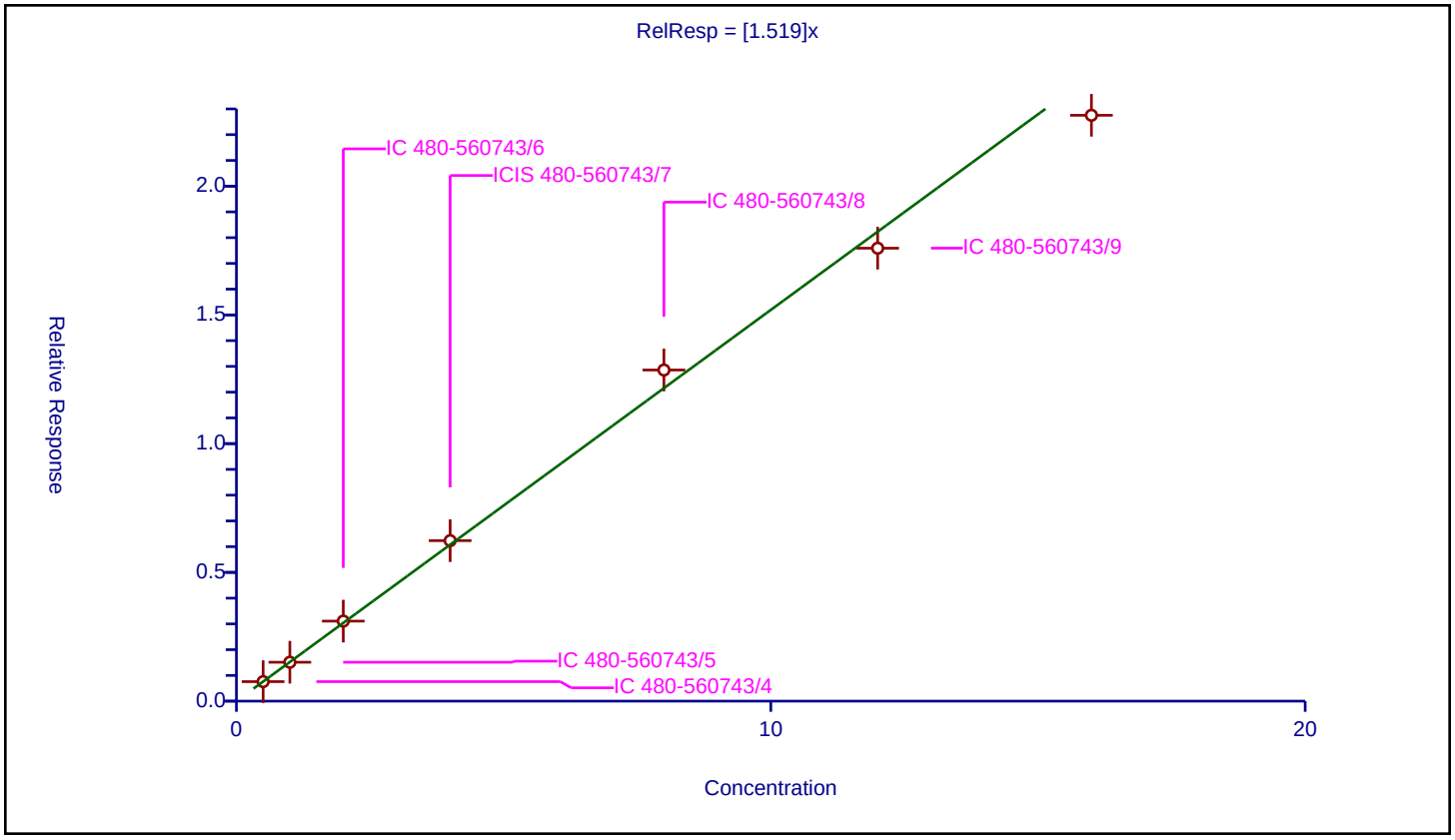
Curve Coefficients

Intercept:	0
Slope:	1.519

Error Coefficients

Standard Error:	896000
Relative Standard Error:	4.1
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.758387	4.0	269783.0	1.516775	Y
2	IC 480-560743/5	1.0	1.510529	4.0	292136.0	1.510529	Y
3	IC 480-560743/6	2.0	3.108859	4.0	266557.0	1.554429	Y
4	ICIS 480-560743/7	4.0	6.233272	4.0	310325.0	1.558318	Y
5	IC 480-560743/8	8.0	12.859232	4.0	286577.0	1.607404	Y
6	IC 480-560743/9	12.0	17.590933	4.0	268396.0	1.465911	Y
7	IC 480-560743/10	16.0	22.752064	4.0	265847.0	1.422004	Y



Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

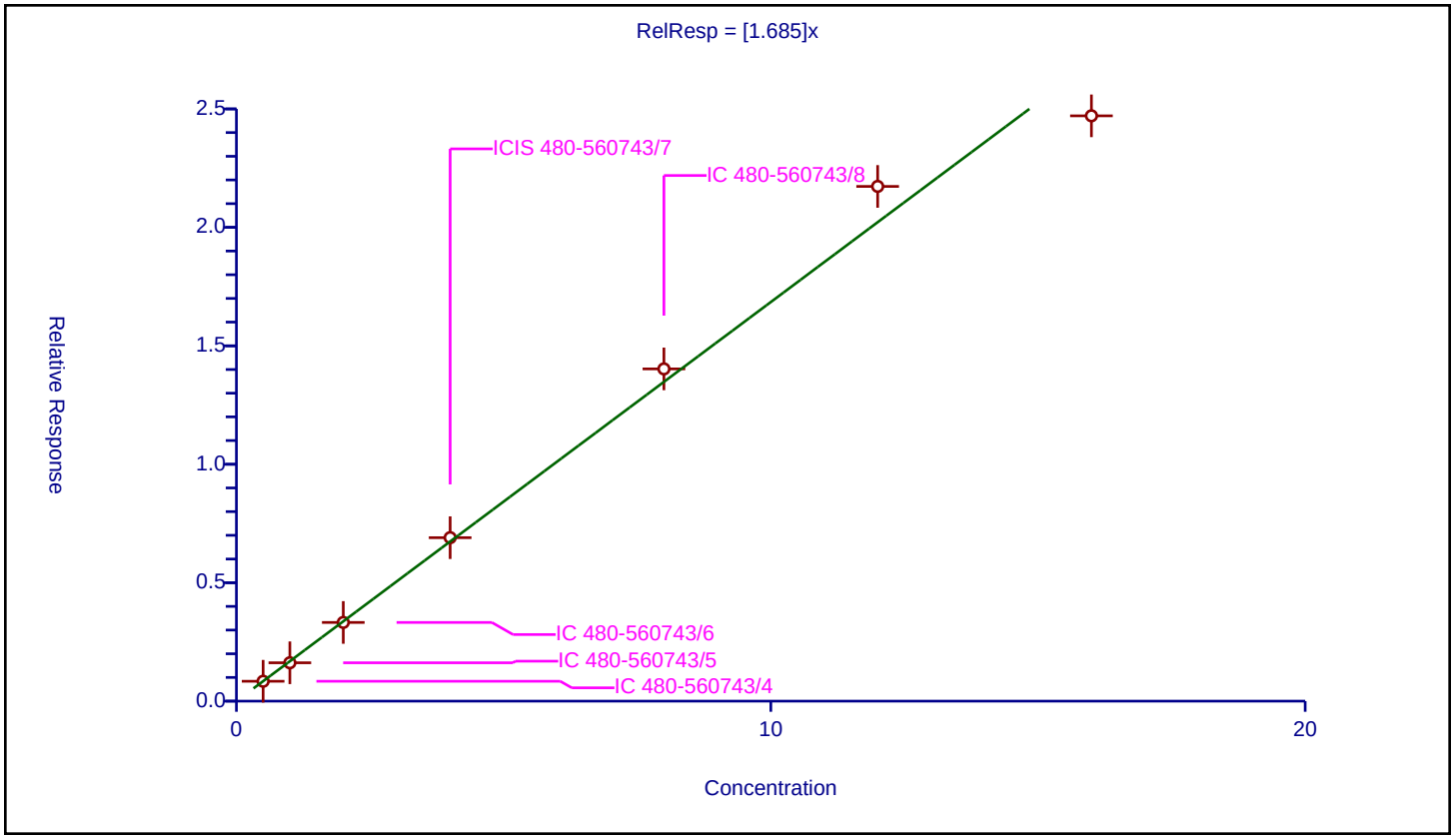
Curve Coefficients

Intercept:	0
Slope:	1.685

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	5.2
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.839134	4.0	269783.0	1.678267	Y
2	IC 480-560743/5	1.0	1.619752	4.0	292136.0	1.619752	Y
3	IC 480-560743/6	2.0	3.322576	4.0	266557.0	1.661288	Y
4	ICIS 480-560743/7	4.0	6.901564	4.0	310325.0	1.725391	Y
5	IC 480-560743/8	8.0	14.025299	4.0	286577.0	1.753162	Y
6	IC 480-560743/9	12.0	21.727969	4.0	268396.0	1.810664	Y
7	IC 480-560743/10	16.0	24.708122	4.0	265847.0	1.544258	Y



Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

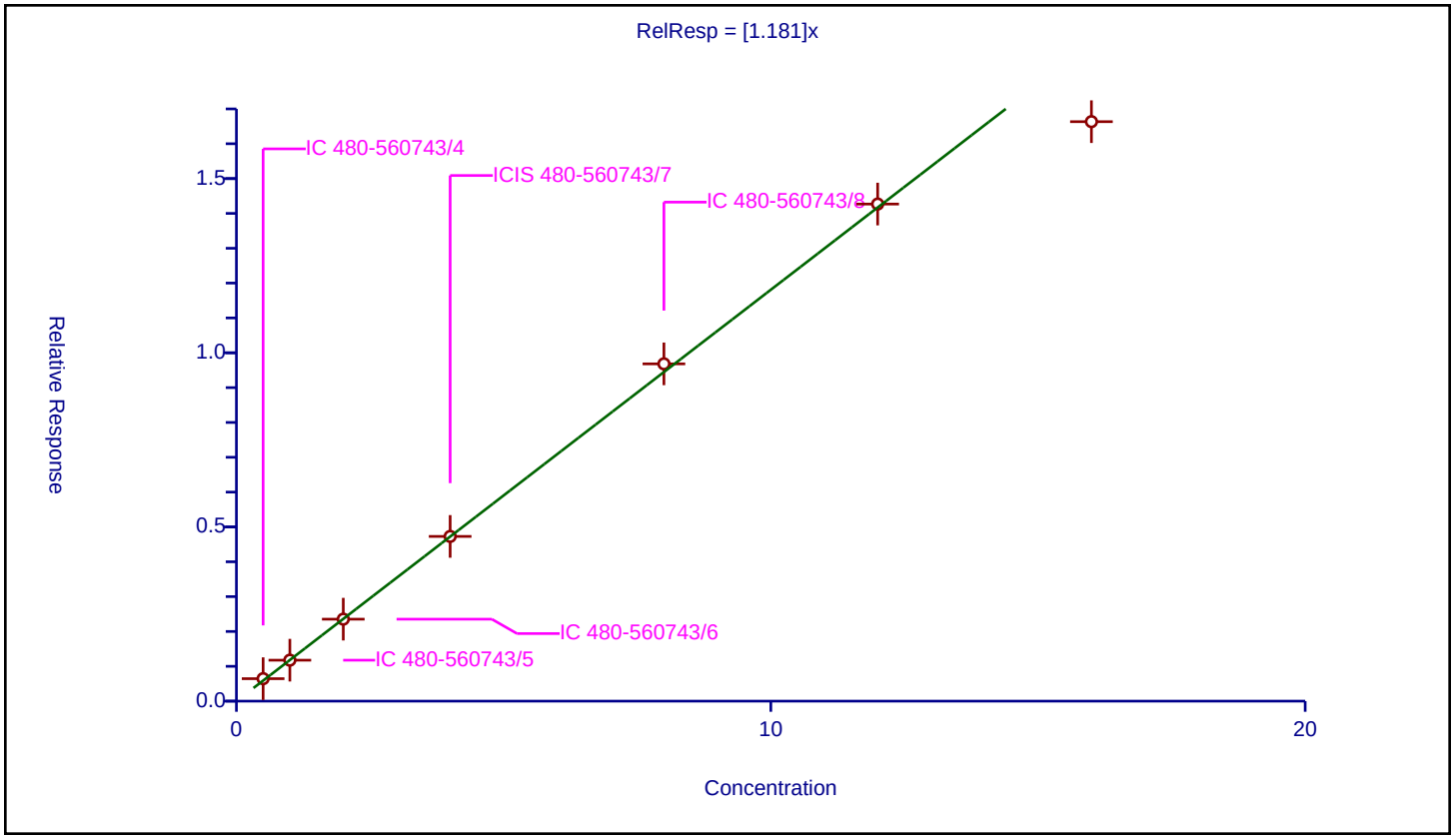
Curve Coefficients

Intercept:	0
Slope:	1.181

Error Coefficients

Standard Error:	682000
Relative Standard Error:	6.3
Correlation Coefficient:	0.982
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.645763	4.0	269783.0	1.291527	Y
2	IC 480-560743/5	1.0	1.17637	4.0	292136.0	1.17637	Y
3	IC 480-560743/6	2.0	2.353763	4.0	266557.0	1.176881	Y
4	ICIS 480-560743/7	4.0	4.728256	4.0	310325.0	1.182064	Y
5	IC 480-560743/8	8.0	9.682201	4.0	286577.0	1.210275	Y
6	IC 480-560743/9	12.0	14.269035	4.0	268396.0	1.189086	Y
7	IC 480-560743/10	16.0	16.633883	4.0	265847.0	1.039618	Y



Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

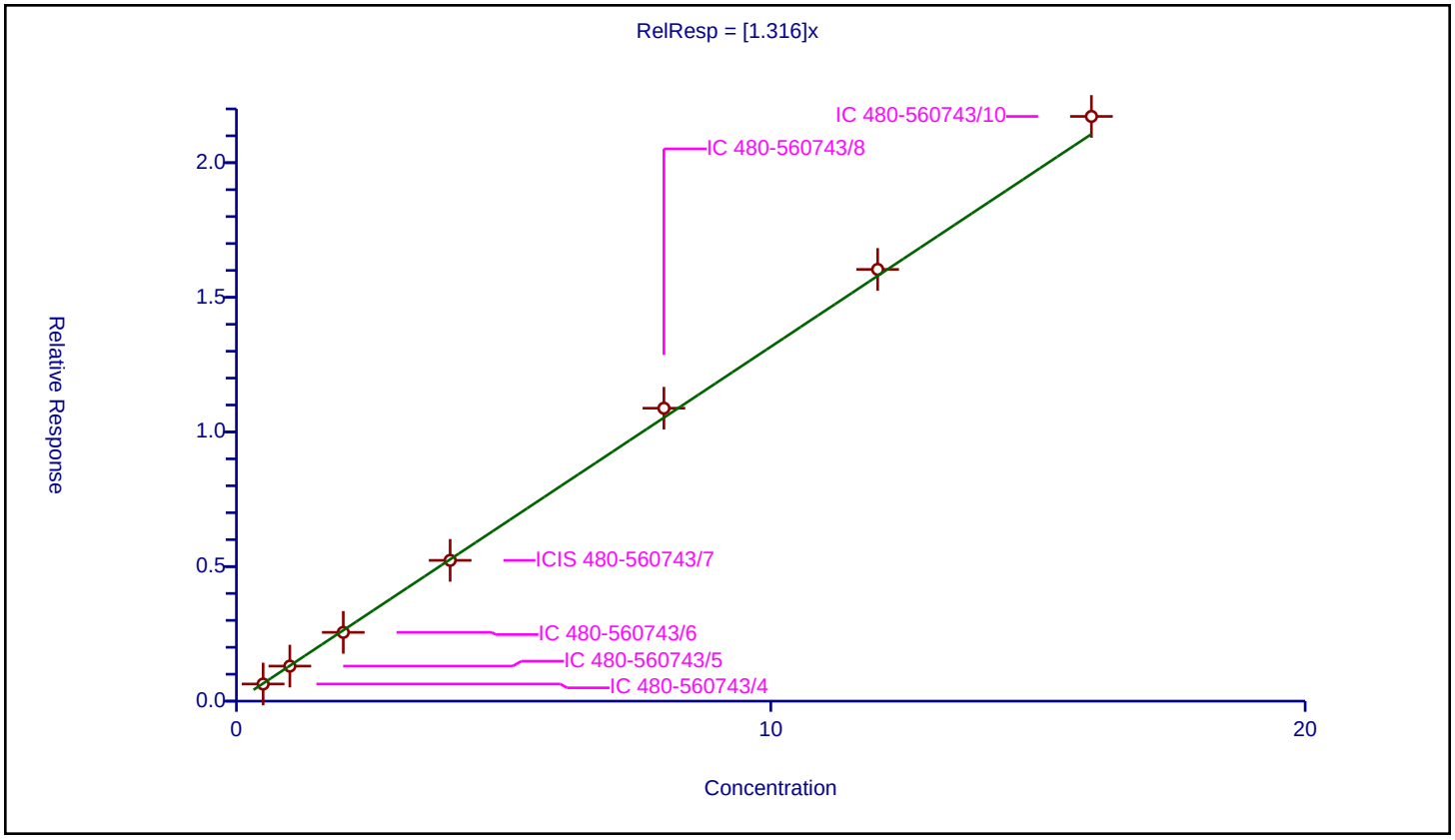
Curve Coefficients

Intercept:	0
Slope:	1.316

Error Coefficients

Standard Error:	822000
Relative Standard Error:	2.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.637016	4.0	269783.0	1.274031	Y
2	IC 480-560743/5	1.0	1.30175	4.0	292136.0	1.30175	Y
3	IC 480-560743/6	2.0	2.555521	4.0	266557.0	1.27776	Y
4	ICIS 480-560743/7	4.0	5.23031	4.0	310325.0	1.307578	Y
5	IC 480-560743/8	8.0	10.881348	4.0	286577.0	1.360168	Y
6	IC 480-560743/9	12.0	16.037258	4.0	268396.0	1.336438	Y
7	IC 480-560743/10	16.0	21.719967	4.0	265847.0	1.357498	Y



Calibration / n-Decane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

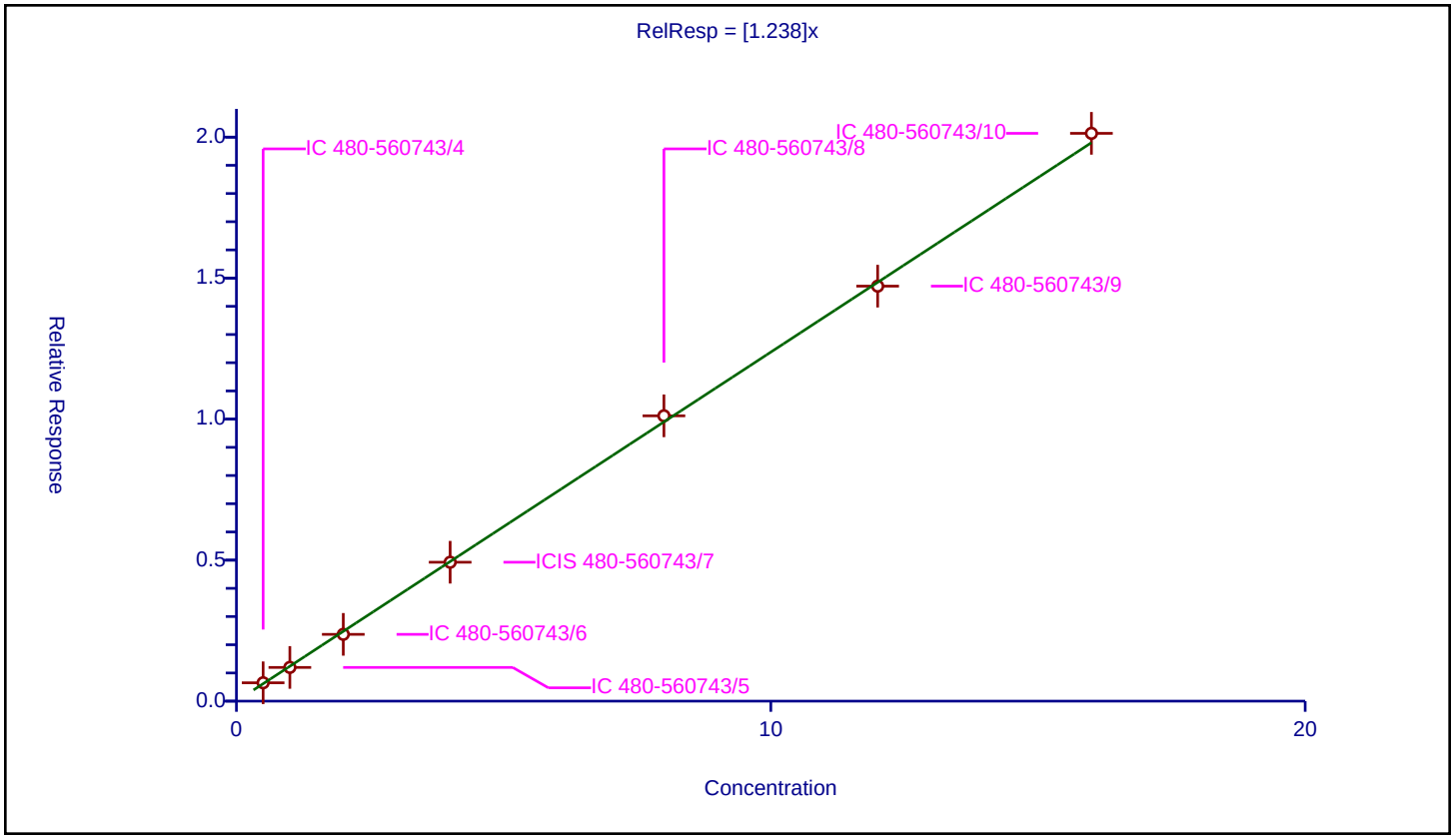
Curve Coefficients

Intercept:	0
Slope:	1.238

Error Coefficients

Standard Error:	761000
Relative Standard Error:	3.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.650864	4.0	269783.0	1.301728	Y
2	IC 480-560743/5	1.0	1.196374	4.0	292136.0	1.196374	Y
3	IC 480-560743/6	2.0	2.369429	4.0	266557.0	1.184715	Y
4	ICIS 480-560743/7	4.0	4.925056	4.0	310325.0	1.231264	Y
5	IC 480-560743/8	8.0	10.117839	4.0	286577.0	1.26473	Y
6	IC 480-560743/9	12.0	14.715346	4.0	268396.0	1.226279	Y
7	IC 480-560743/10	16.0	20.132934	4.0	265847.0	1.258308	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

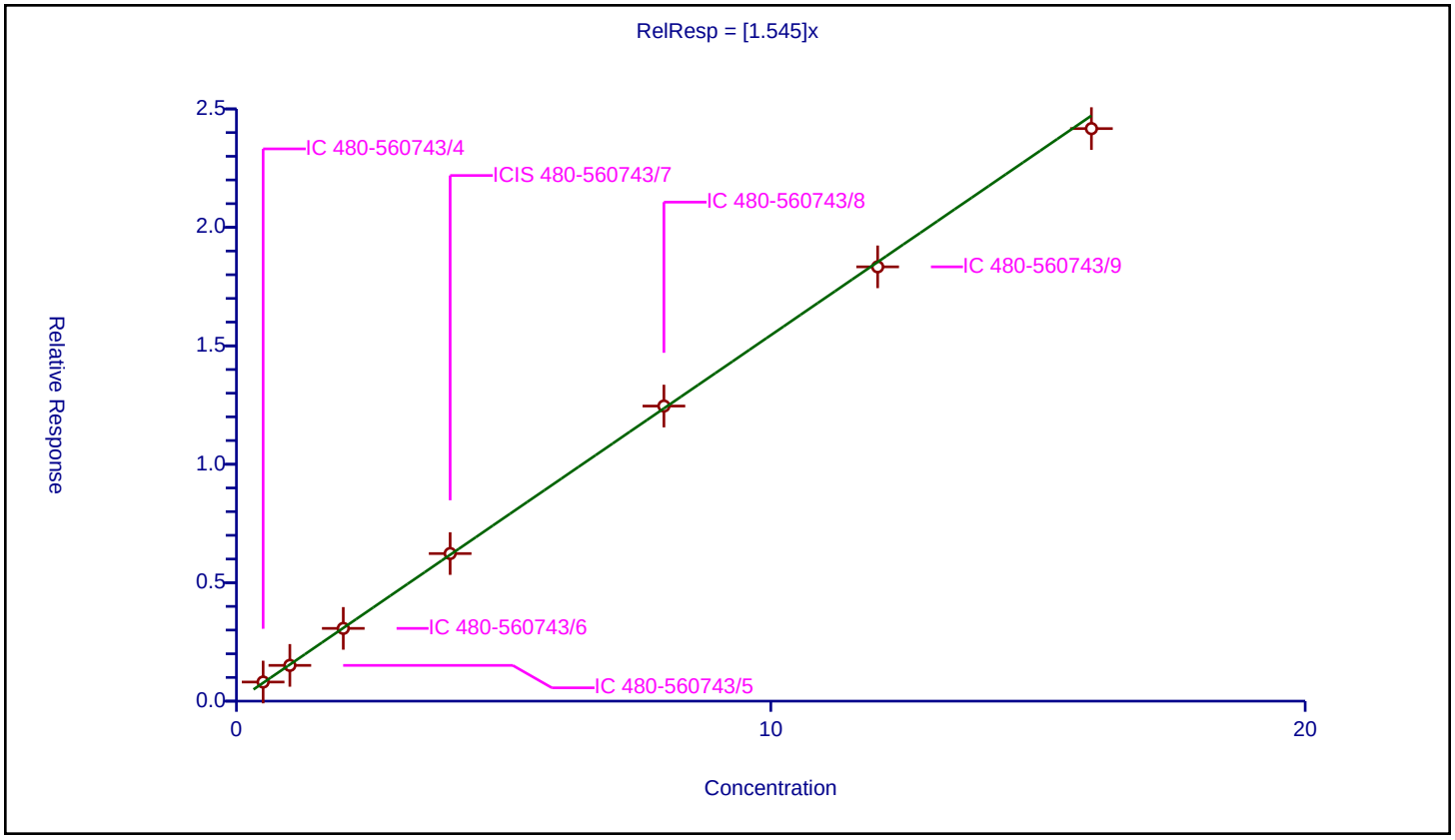
Curve Coefficients

Intercept:	0
Slope:	1.545

Error Coefficients

Standard Error:	929000
Relative Standard Error:	2.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.807197	4.0	269783.0	1.614394	Y
2	IC 480-560743/5	1.0	1.509831	4.0	292136.0	1.509831	Y
3	IC 480-560743/6	2.0	3.071133	4.0	266557.0	1.535567	Y
4	ICIS 480-560743/7	4.0	6.231209	4.0	310325.0	1.557802	Y
5	IC 480-560743/8	8.0	12.45765	4.0	286577.0	1.557206	Y
6	IC 480-560743/9	12.0	18.333015	4.0	268396.0	1.527751	Y
7	IC 480-560743/10	16.0	24.16748	4.0	265847.0	1.510467	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

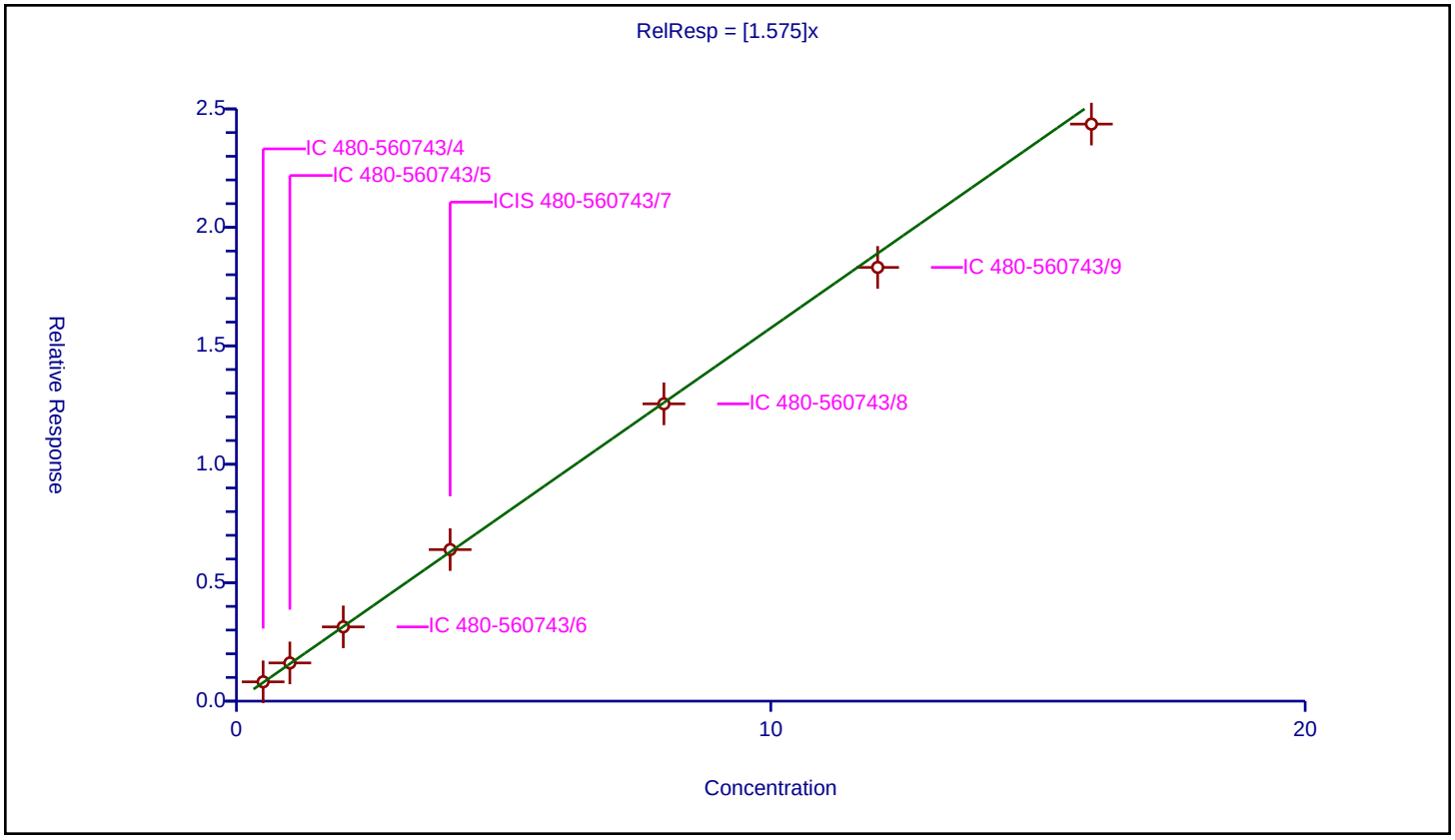
Curve Coefficients

Intercept:	0
Slope:	1.575

Error Coefficients

Standard Error:	935000
Relative Standard Error:	2.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.81464	4.0	269783.0	1.62928	Y
2	IC 480-560743/5	1.0	1.612674	4.0	292136.0	1.612674	Y
3	IC 480-560743/6	2.0	3.135344	4.0	266557.0	1.567672	Y
4	ICIS 480-560743/7	4.0	6.397989	4.0	310325.0	1.599497	Y
5	IC 480-560743/8	8.0	12.550149	4.0	286577.0	1.568769	Y
6	IC 480-560743/9	12.0	18.309721	4.0	268396.0	1.52581	Y
7	IC 480-560743/10	16.0	24.360568	4.0	265847.0	1.522536	Y



Calibration / Benzyl alcohol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

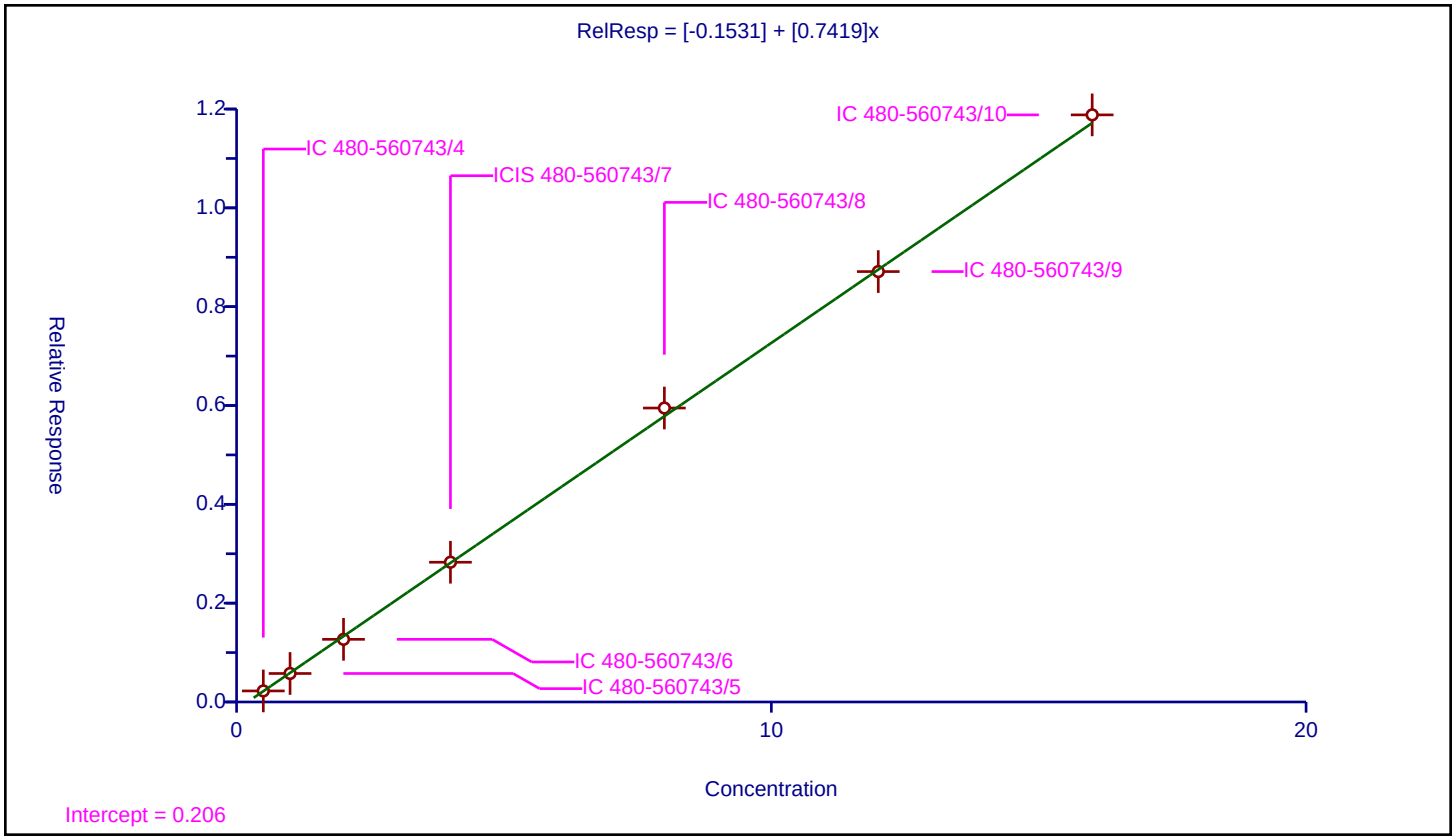
Curve Coefficients

Intercept:	-0.1531
Slope:	0.7419

Error Coefficients

Standard Error:	491000
Relative Standard Error:	2.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.223721	4.0	269783.0	0.447441	Y
2	IC 480-560743/5	1.0	0.577402	4.0	292136.0	0.577402	Y
3	IC 480-560743/6	2.0	1.267841	4.0	266557.0	0.633921	Y
4	ICIS 480-560743/7	4.0	2.828763	4.0	310325.0	0.707191	Y
5	IC 480-560743/8	8.0	5.949089	4.0	286577.0	0.743636	Y
6	IC 480-560743/9	12.0	8.710249	4.0	268396.0	0.725854	Y
7	IC 480-560743/10	16.0	11.881797	4.0	265847.0	0.742612	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

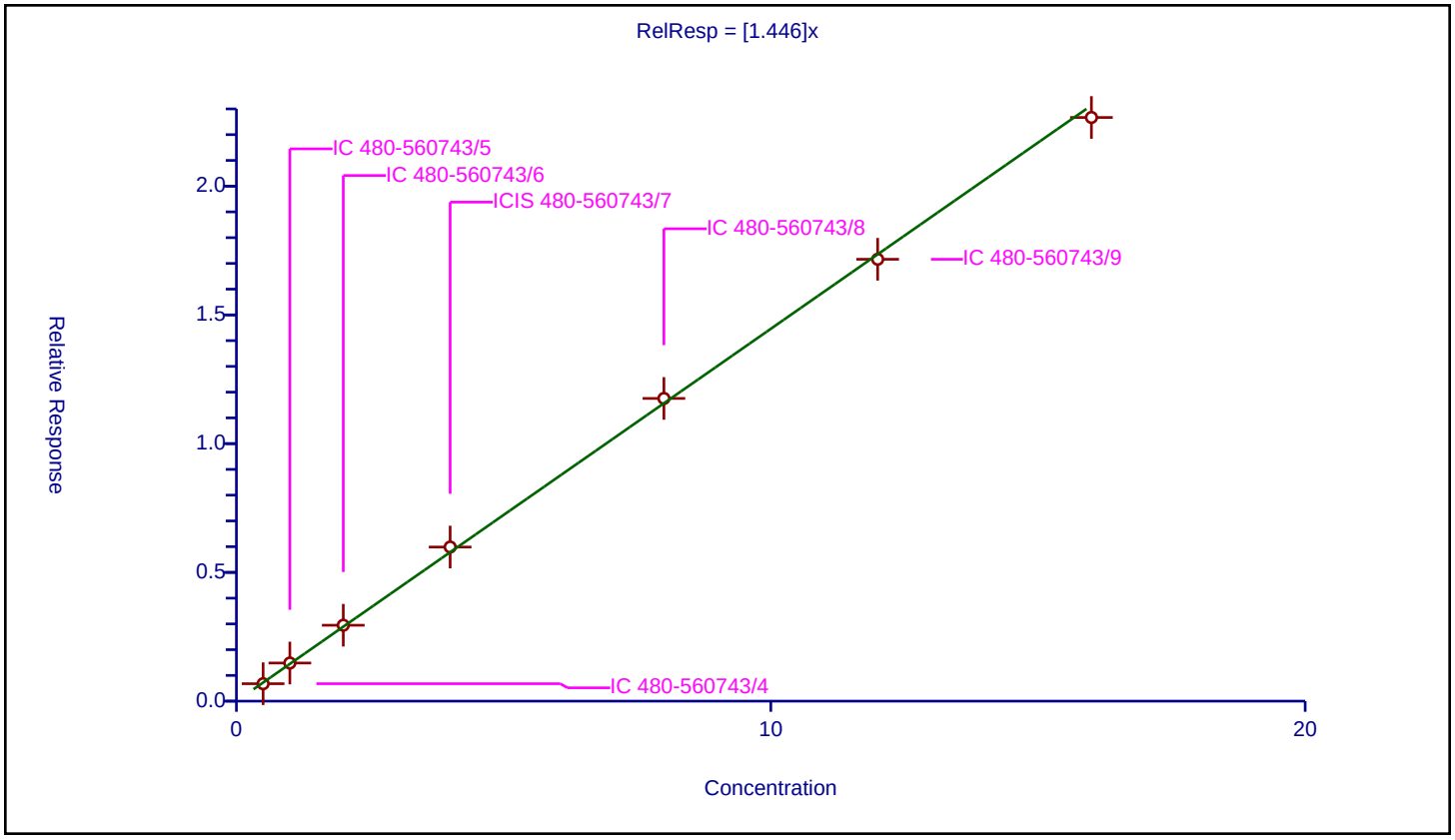
Curve Coefficients

Intercept:	0
Slope:	1.446

Error Coefficients

Standard Error:	873000
Relative Standard Error:	3.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.677211	4.0	269783.0	1.354422	Y
2	IC 480-560743/5	1.0	1.480721	4.0	292136.0	1.480721	Y
3	IC 480-560743/6	2.0	2.948067	4.0	266557.0	1.474034	Y
4	ICIS 480-560743/7	4.0	5.985609	4.0	310325.0	1.496402	Y
5	IC 480-560743/8	8.0	11.756184	4.0	286577.0	1.469523	Y
6	IC 480-560743/9	12.0	17.160554	4.0	268396.0	1.430046	Y
7	IC 480-560743/10	16.0	22.666978	4.0	265847.0	1.416686	Y



Calibration / 2-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

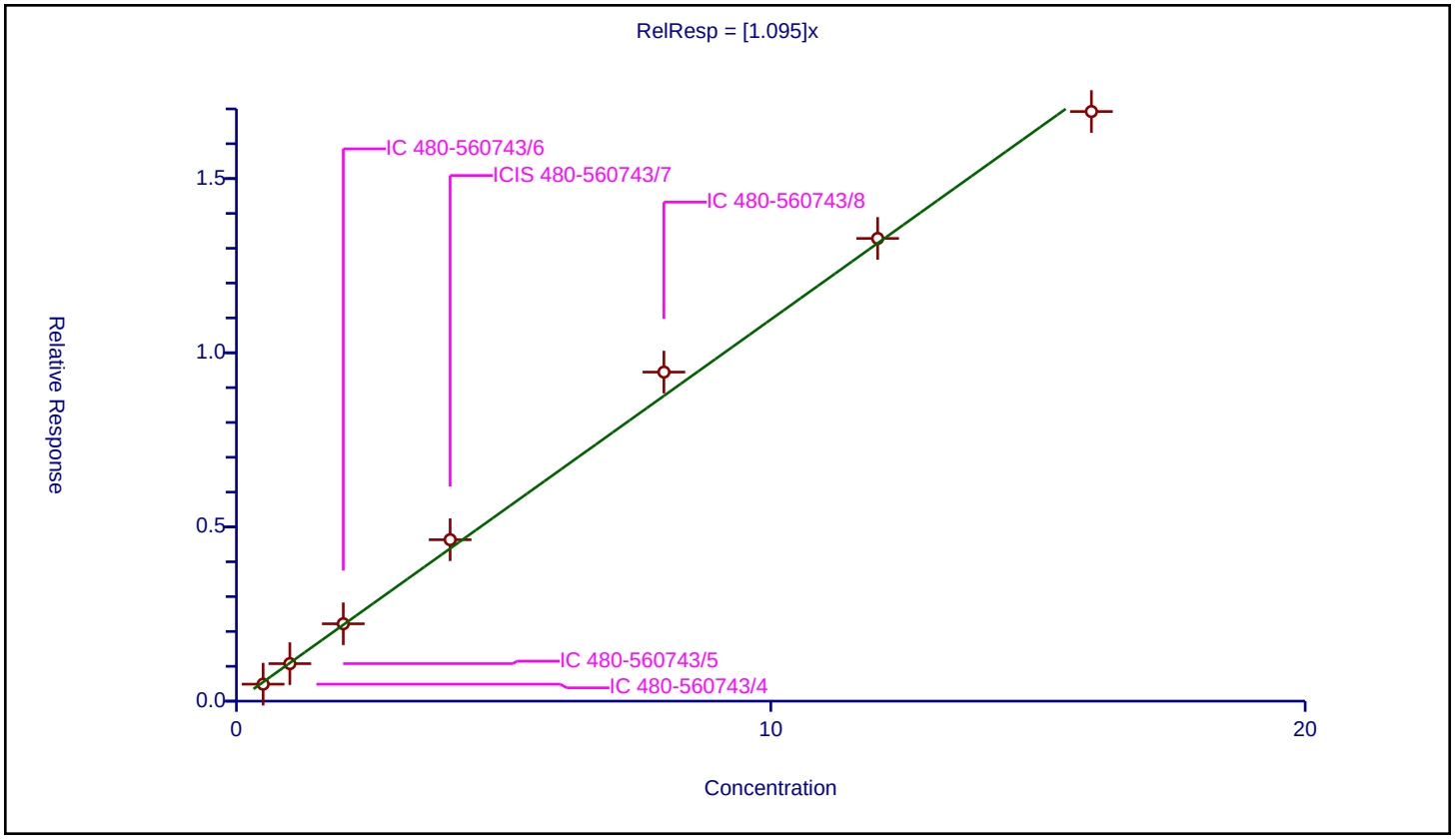
Curve Coefficients

Intercept:	0
Slope:	1.095

Error Coefficients

Standard Error:	668000
Relative Standard Error:	6.2
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.488378	4.0	269783.0	0.976755	Y
2	IC 480-560743/5	1.0	1.076937	4.0	292136.0	1.076937	Y
3	IC 480-560743/6	2.0	2.221153	4.0	266557.0	1.110577	Y
4	ICIS 480-560743/7	4.0	4.634251	4.0	310325.0	1.158563	Y
5	IC 480-560743/8	8.0	9.44542	4.0	286577.0	1.180677	Y
6	IC 480-560743/9	12.0	13.281226	4.0	268396.0	1.106769	Y
7	IC 480-560743/10	16.0	16.924472	4.0	265847.0	1.057779	Y



Calibration / 2,2'-oxybis[1-chloropropane]

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

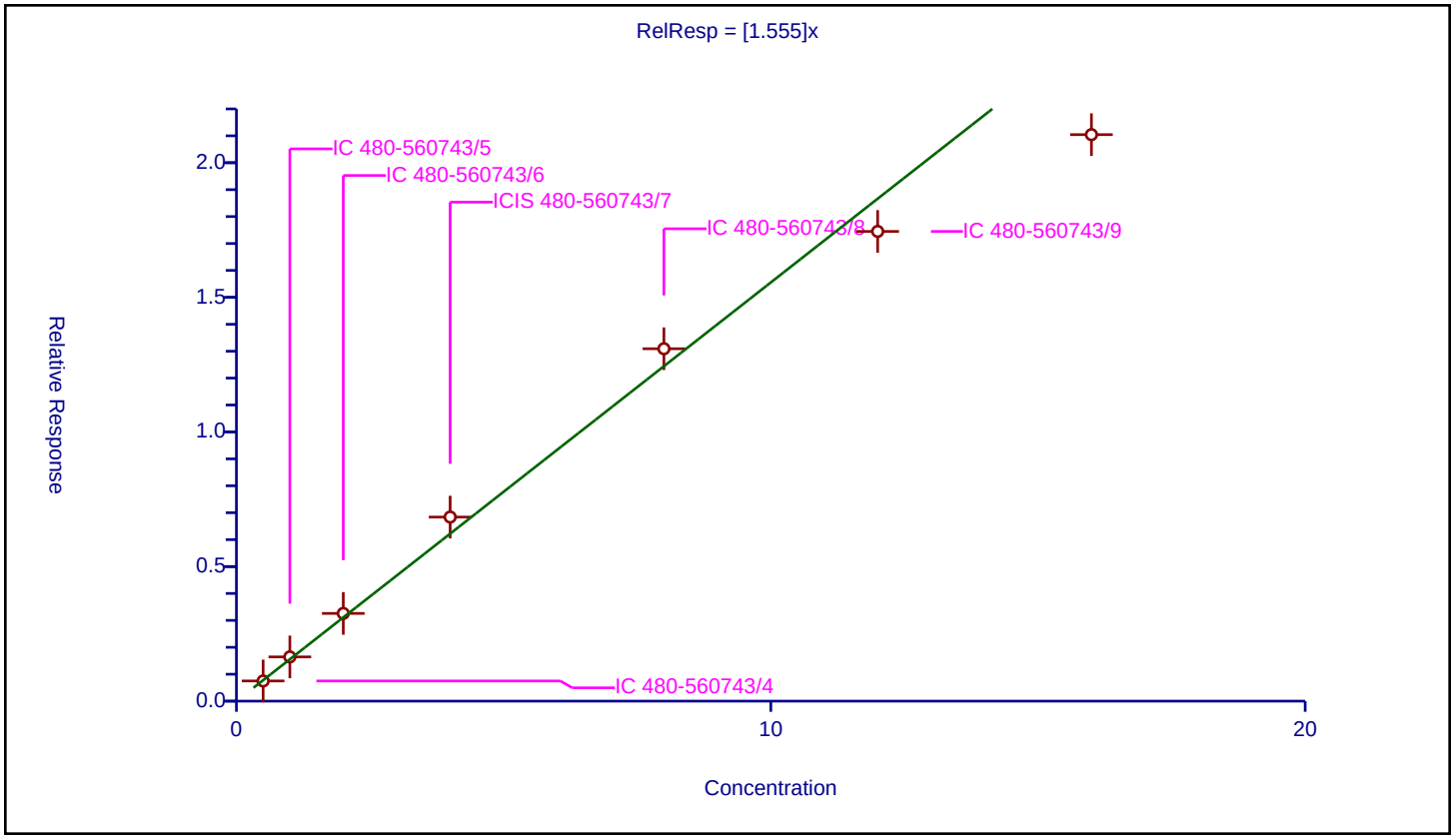
Curve Coefficients

Intercept:	0
Slope:	1.555

Error Coefficients

Standard Error:	871000
Relative Standard Error:	8.9
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.749758	4.0	269783.0	1.499516	Y
2	IC 480-560743/5	1.0	1.642564	4.0	292136.0	1.642564	Y
3	IC 480-560743/6	2.0	3.25886	4.0	266557.0	1.62943	Y
4	ICIS 480-560743/7	4.0	6.838353	4.0	310325.0	1.709588	Y
5	IC 480-560743/8	8.0	13.091253	4.0	286577.0	1.636407	Y
6	IC 480-560743/9	12.0	17.448889	4.0	268396.0	1.454074	Y
7	IC 480-560743/10	16.0	21.043442	4.0	265847.0	1.315215	Y



Calibration / Indene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

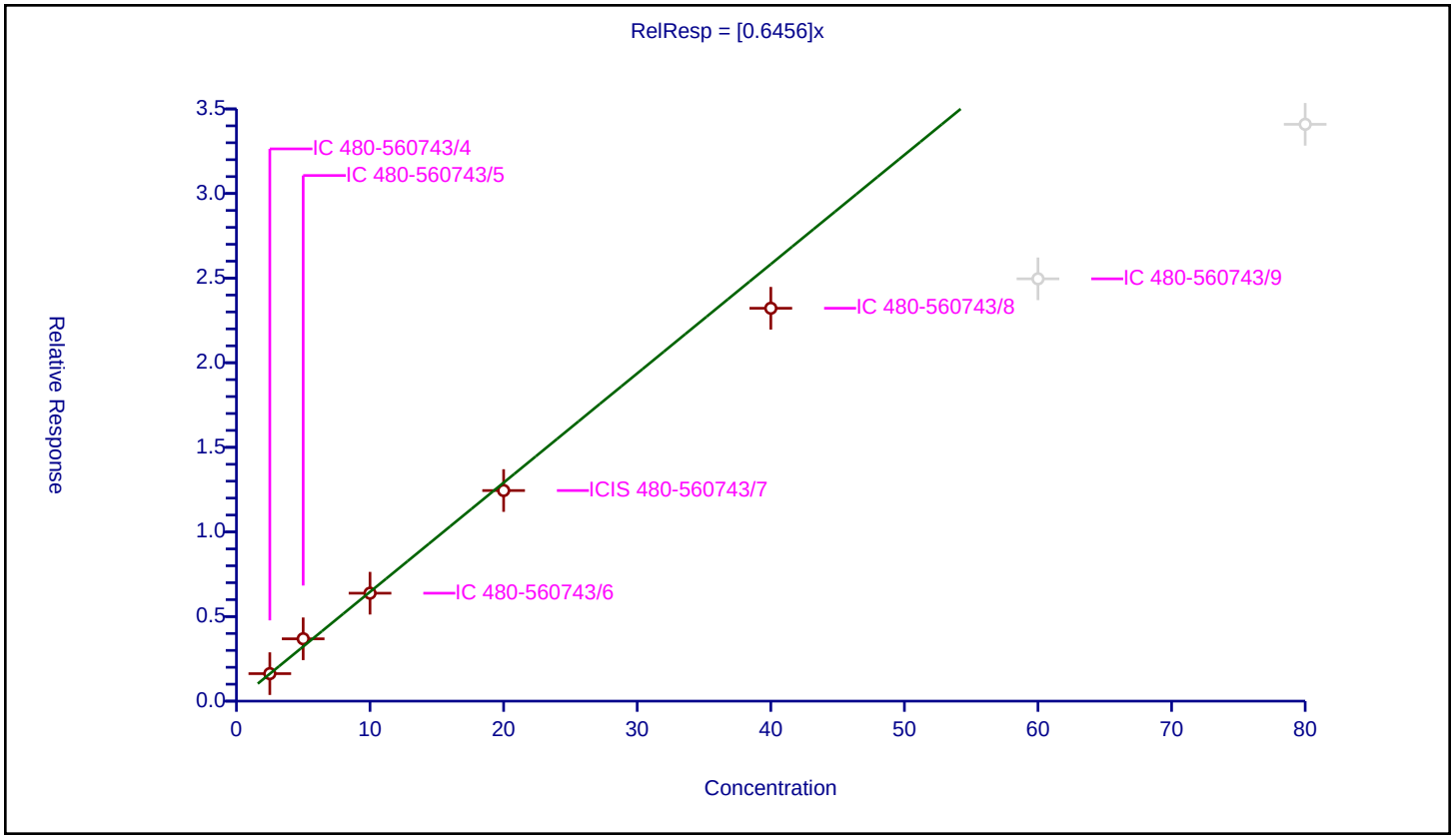
Curve Coefficients

Intercept:	0
Slope:	0.6456

Error Coefficients

Standard Error:	3370000
Relative Standard Error:	8.9
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	2.5	1.625583	4.0	886695.0	0.650233	Y
2	IC 480-560743/5	5.0	3.68564	4.0	890178.0	0.737128	Y
3	IC 480-560743/6	10.0	6.37986	4.0	955095.0	0.637986	Y
4	ICIS 480-560743/7	20.0	12.446254	4.0	1123441.0	0.622313	Y
5	IC 480-560743/8	40.0	23.218736	4.0	943860.0	0.580468	Y
6	IC 480-560743/9	60.0	24.957293	4.0	1045745.0	0.415955	N
7	IC 480-560743/10	80.0	34.089527	4.0	891034.0	0.426119	N



Calibration / N-Nitrosodi-n-propylamine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

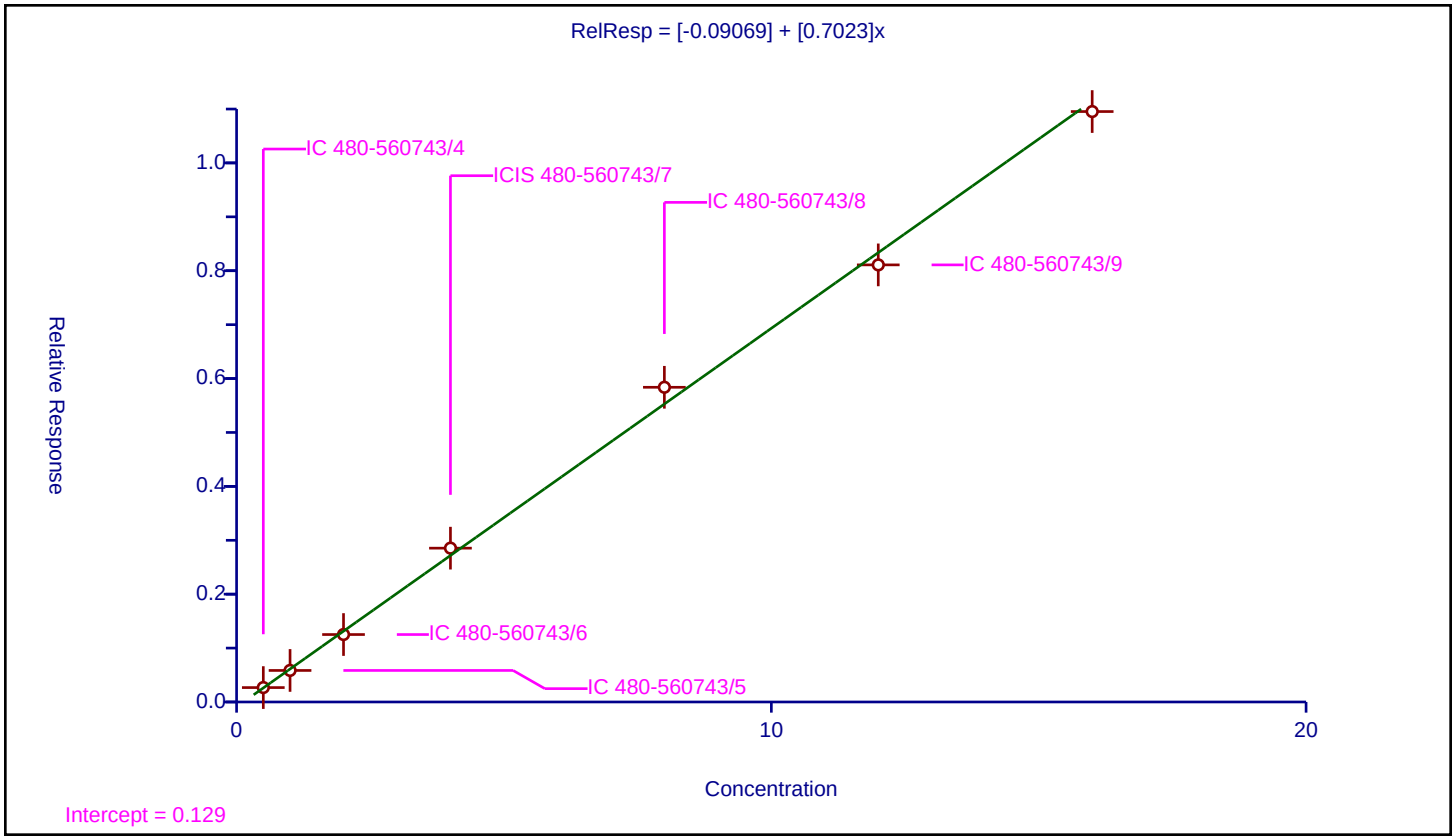
Curve Coefficients

Intercept:	-0.09069
Slope:	0.7023

Error Coefficients

Standard Error:	460000
Relative Standard Error:	4.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.268067	4.0	269783.0	0.536135	Y
2	IC 480-560743/5	1.0	0.58559	4.0	292136.0	0.58559	Y
3	IC 480-560743/6	2.0	1.251605	4.0	266557.0	0.625802	Y
4	ICIS 480-560743/7	4.0	2.853898	4.0	310325.0	0.713475	Y
5	IC 480-560743/8	8.0	5.838445	4.0	286577.0	0.729806	Y
6	IC 480-560743/9	12.0	8.10875	4.0	268396.0	0.675729	Y
7	IC 480-560743/10	16.0	10.953248	4.0	265847.0	0.684578	Y



Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

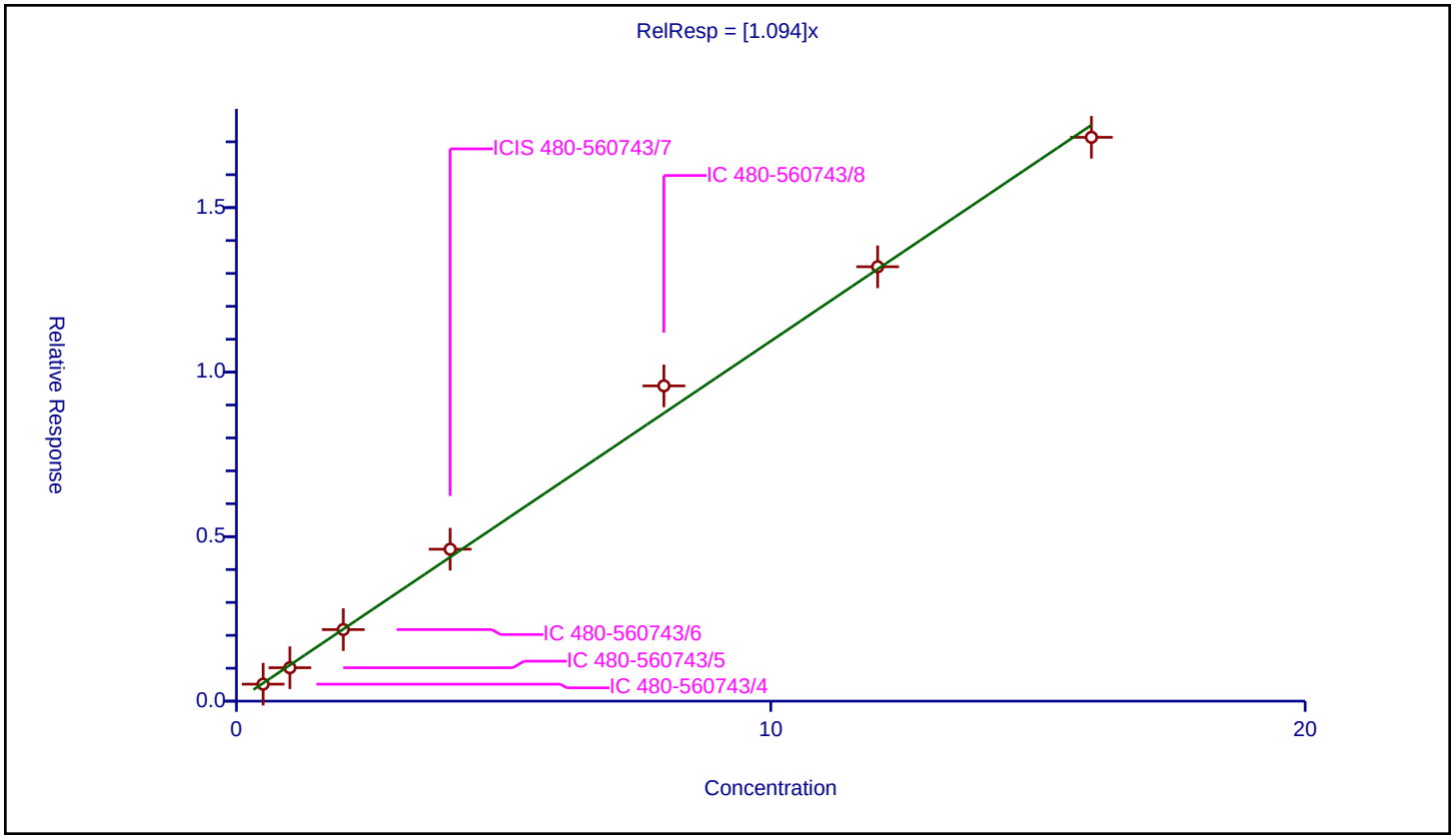
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Standard Error:	672000
Relative Standard Error:	5.9
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.516993	4.0	269783.0	1.033987	Y
2	IC 480-560743/5	1.0	1.015431	4.0	292136.0	1.015431	Y
3	IC 480-560743/6	2.0	2.174304	4.0	266557.0	1.087152	Y
4	ICIS 480-560743/7	4.0	4.617649	4.0	310325.0	1.154412	Y
5	IC 480-560743/8	8.0	9.582667	4.0	286577.0	1.197833	Y
6	IC 480-560743/9	12.0	13.202015	4.0	268396.0	1.100168	Y
7	IC 480-560743/10	16.0	17.136849	4.0	265847.0	1.071053	Y



Calibration / Acetophenone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

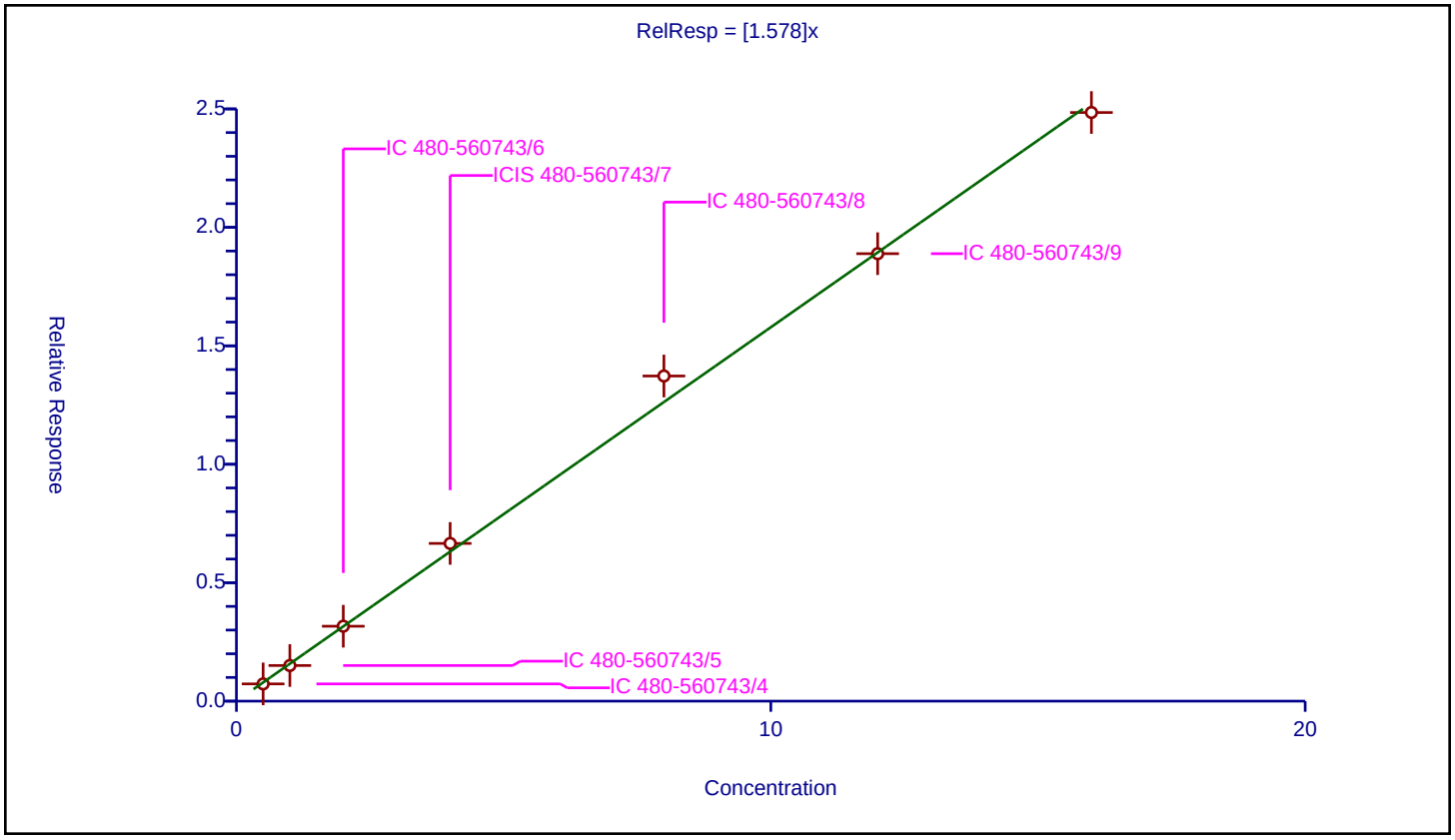
Curve Coefficients

Intercept:	0
Slope:	1.578

Error Coefficients

Standard Error:	968000
Relative Standard Error:	5.7
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.727503	4.0	269783.0	1.455006	Y
2	IC 480-560743/5	1.0	1.503861	4.0	292136.0	1.503861	Y
3	IC 480-560743/6	2.0	3.162806	4.0	266557.0	1.581403	Y
4	ICIS 480-560743/7	4.0	6.658709	4.0	310325.0	1.664677	Y
5	IC 480-560743/8	8.0	13.725582	4.0	286577.0	1.715698	Y
6	IC 480-560743/9	12.0	18.888106	4.0	268396.0	1.574009	Y
7	IC 480-560743/10	16.0	24.848563	4.0	265847.0	1.553035	Y



Calibration / Hexachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

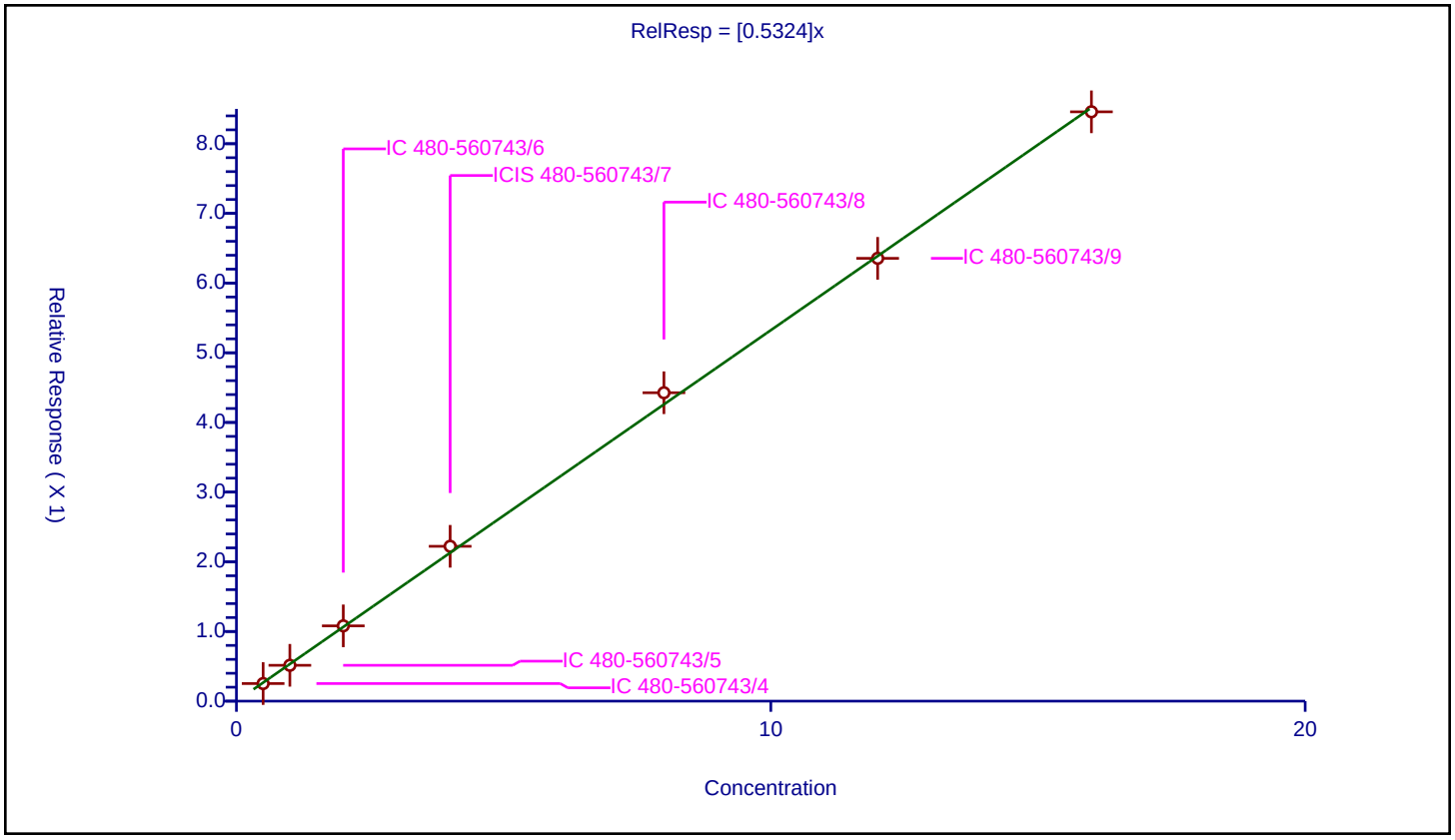
Curve Coefficients

Intercept:	0
Slope:	0.5324

Error Coefficients

Standard Error:	325000
Relative Standard Error:	3.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.252366	4.0	269783.0	0.504732	Y
2	IC 480-560743/5	1.0	0.514473	4.0	292136.0	0.514473	Y
3	IC 480-560743/6	2.0	1.080369	4.0	266557.0	0.540185	Y
4	ICIS 480-560743/7	4.0	2.222728	4.0	310325.0	0.555682	Y
5	IC 480-560743/8	8.0	4.426315	4.0	286577.0	0.553289	Y
6	IC 480-560743/9	12.0	6.355445	4.0	268396.0	0.52962	Y
7	IC 480-560743/10	16.0	8.458429	4.0	265847.0	0.528652	Y



Calibration / Nitrobenzene-d5

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

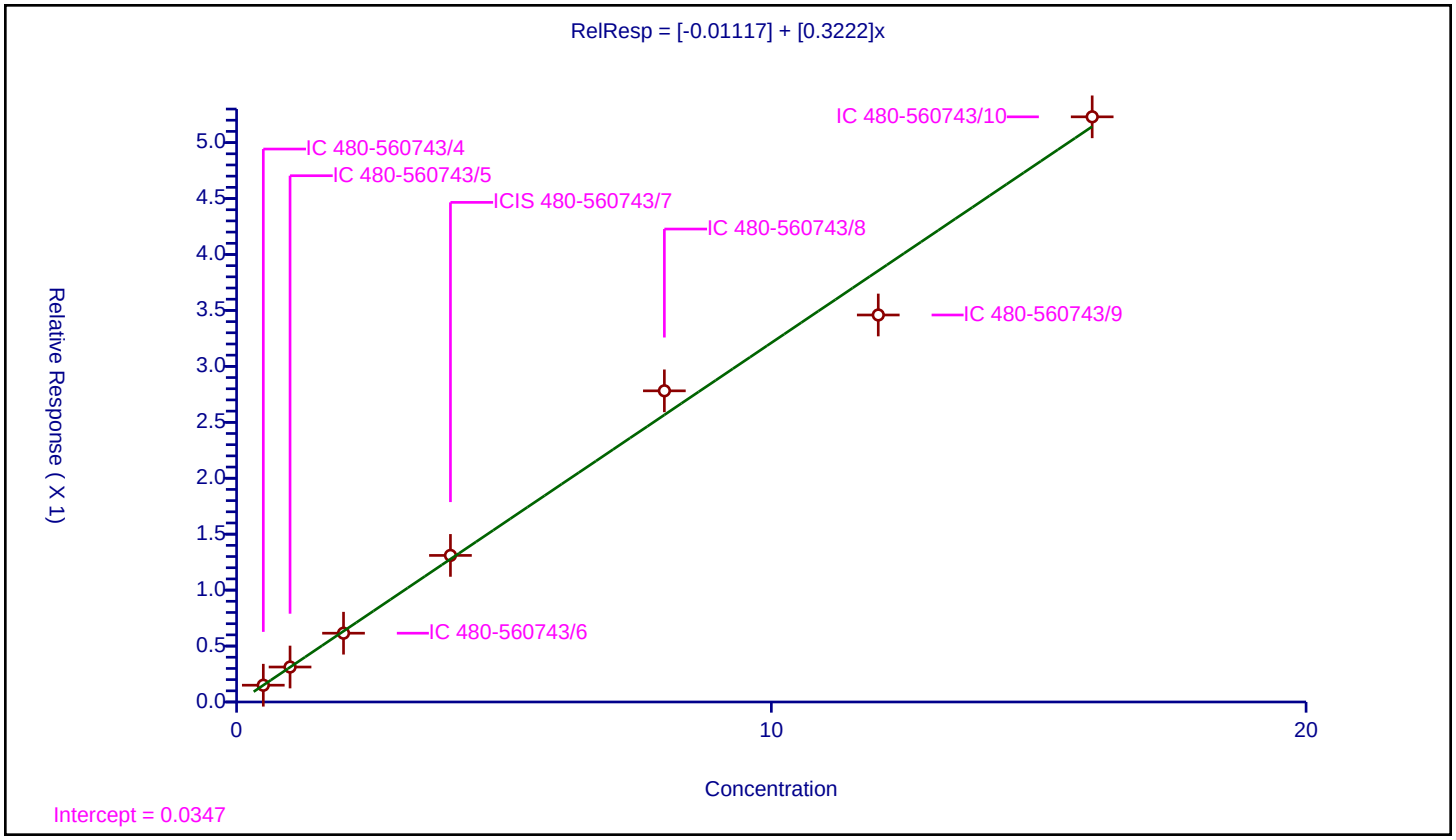
Curve Coefficients

Intercept:	-0.01117
Slope:	0.3222

Error Coefficients

Standard Error:	744000
Relative Standard Error:	6.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.149919	4.0	886695.0	0.299837	Y
2	IC 480-560743/5	1.0	0.312526	4.0	890178.0	0.312526	Y
3	IC 480-560743/6	2.0	0.61495	4.0	955095.0	0.307475	Y
4	ICIS 480-560743/7	4.0	1.310164	4.0	1123441.0	0.327541	Y
5	IC 480-560743/8	8.0	2.781429	4.0	943860.0	0.347679	Y
6	IC 480-560743/9	12.0	3.45926	4.0	1045745.0	0.288272	Y
7	IC 480-560743/10	16.0	5.230238	4.0	891034.0	0.32689	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

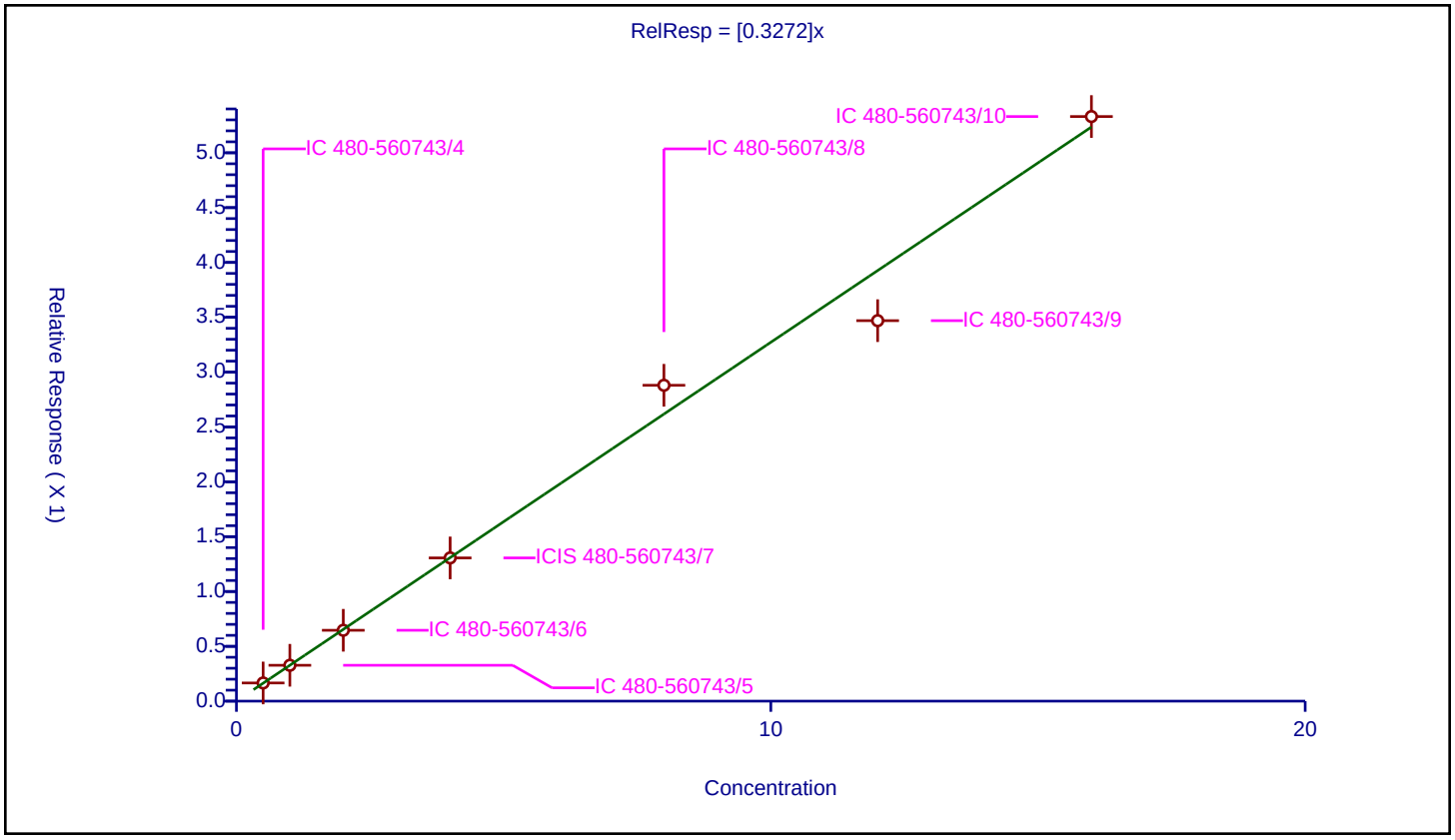
Curve Coefficients

Intercept:	0
Slope:	0.3272

Error Coefficients

Standard Error:	690000
Relative Standard Error:	6.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.165784	4.0	886695.0	0.331568	Y
2	IC 480-560743/5	1.0	0.326937	4.0	890178.0	0.326937	Y
3	IC 480-560743/6	2.0	0.646139	4.0	955095.0	0.323069	Y
4	ICIS 480-560743/7	4.0	1.306166	4.0	1123441.0	0.326541	Y
5	IC 480-560743/8	8.0	2.879957	4.0	943860.0	0.359995	Y
6	IC 480-560743/9	12.0	3.469171	4.0	1045745.0	0.289098	Y
7	IC 480-560743/10	16.0	5.330248	4.0	891034.0	0.33314	Y



Calibration / Isophorone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

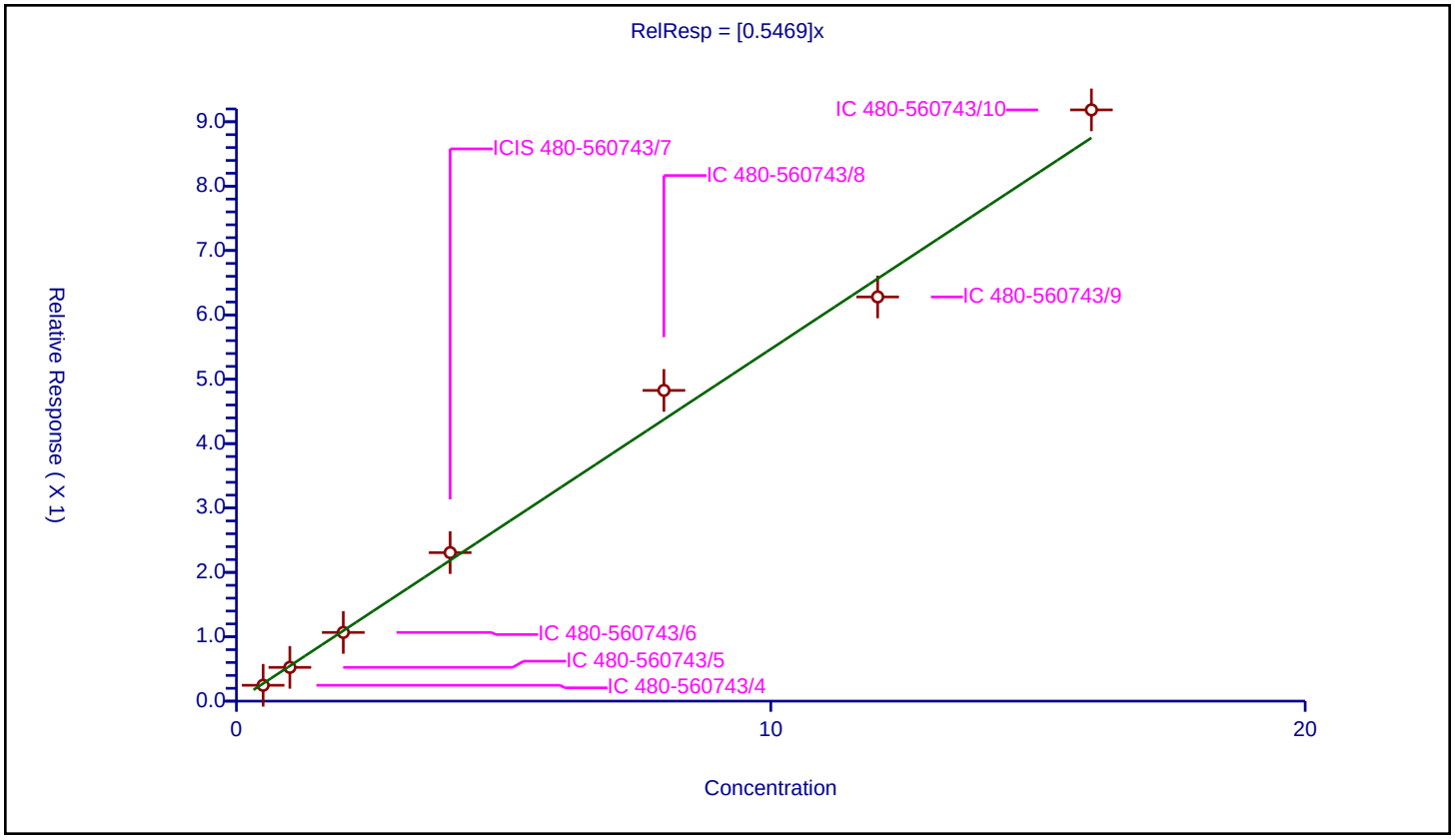
Curve Coefficients

Intercept:	0
Slope:	0.5469

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	7.1
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.24647	4.0	886695.0	0.492941	Y
2	IC 480-560743/5	1.0	0.524547	4.0	890178.0	0.524547	Y
3	IC 480-560743/6	2.0	1.067232	4.0	955095.0	0.533616	Y
4	ICIS 480-560743/7	4.0	2.307062	4.0	1123441.0	0.576765	Y
5	IC 480-560743/8	8.0	4.827165	4.0	943860.0	0.603396	Y
6	IC 480-560743/9	12.0	6.279519	4.0	1045745.0	0.523293	Y
7	IC 480-560743/10	16.0	9.184875	4.0	891034.0	0.574055	Y



Calibration / 2-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

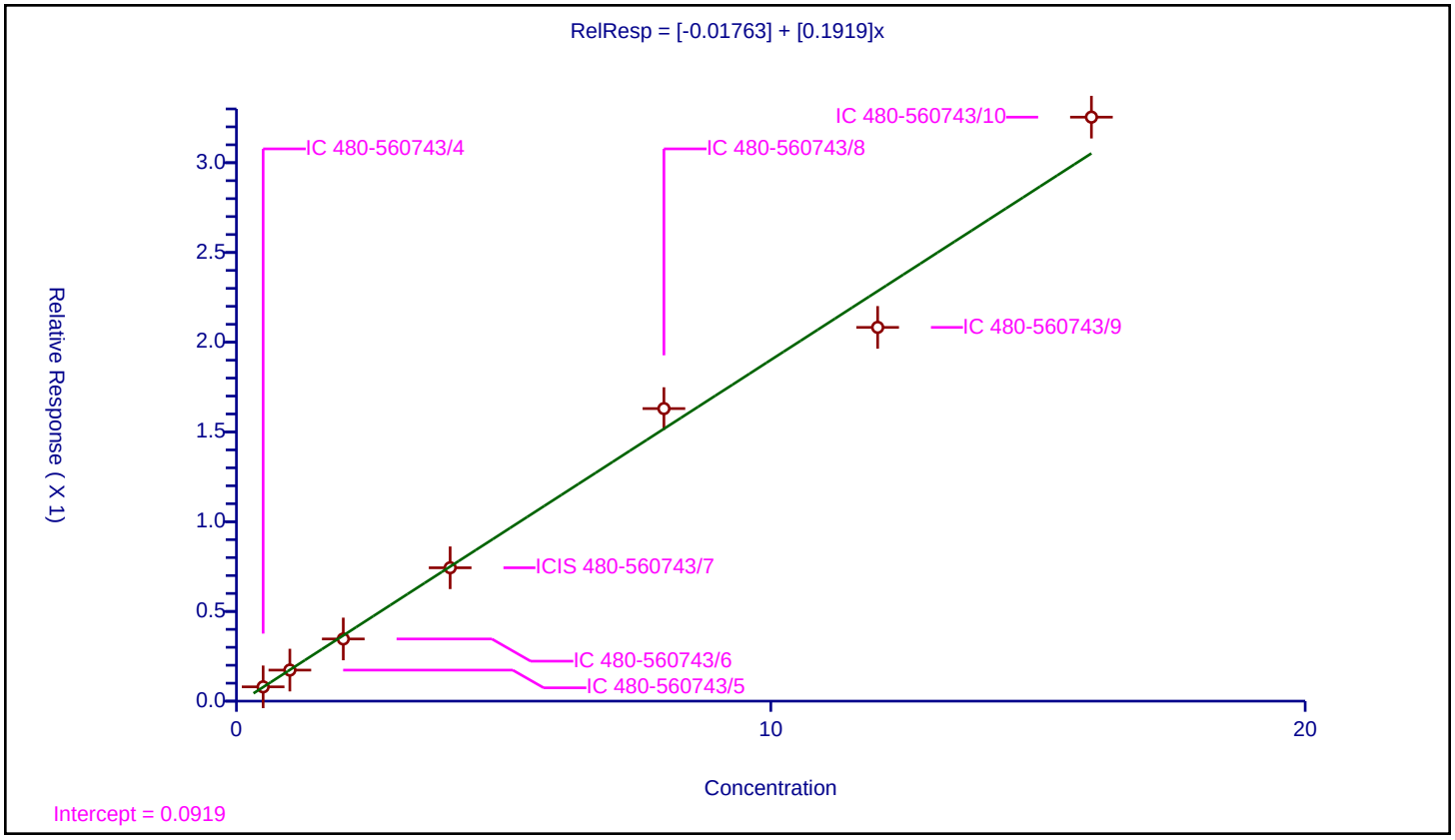
Curve Coefficients

Intercept:	-0.01763
Slope:	0.1919

Error Coefficients

Standard Error:	452000
Relative Standard Error:	6.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.079608	4.0	886695.0	0.159216	Y
2	IC 480-560743/5	1.0	0.173174	4.0	890178.0	0.173174	Y
3	IC 480-560743/6	2.0	0.346474	4.0	955095.0	0.173237	Y
4	ICIS 480-560743/7	4.0	0.743355	4.0	1123441.0	0.185839	Y
5	IC 480-560743/8	8.0	1.630119	4.0	943860.0	0.203765	Y
6	IC 480-560743/9	12.0	2.082649	4.0	1045745.0	0.173554	Y
7	IC 480-560743/10	16.0	3.254112	4.0	891034.0	0.203382	Y



Calibration / 2,4-Dimethylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

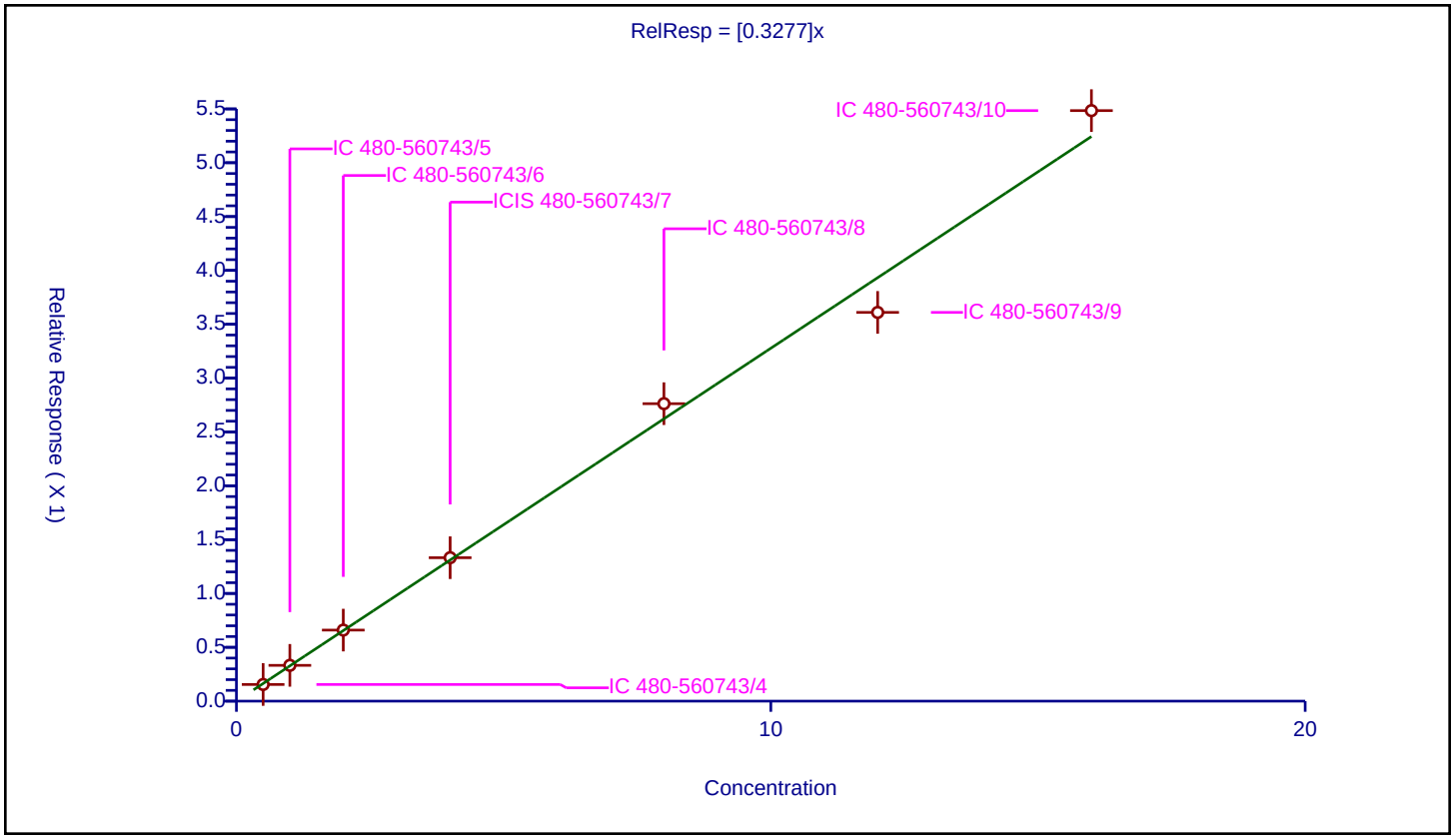
Curve Coefficients

Intercept:	0
Slope:	0.3277

Error Coefficients

Standard Error:	705000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.154763	4.0	886695.0	0.309527	Y
2	IC 480-560743/5	1.0	0.332536	4.0	890178.0	0.332536	Y
3	IC 480-560743/6	2.0	0.659863	4.0	955095.0	0.329932	Y
4	ICIS 480-560743/7	4.0	1.332339	4.0	1123441.0	0.333085	Y
5	IC 480-560743/8	8.0	2.762728	4.0	943860.0	0.345341	Y
6	IC 480-560743/9	12.0	3.610054	4.0	1045745.0	0.300838	Y
7	IC 480-560743/10	16.0	5.483867	4.0	891034.0	0.342742	Y



Calibration / Benzoic acid

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

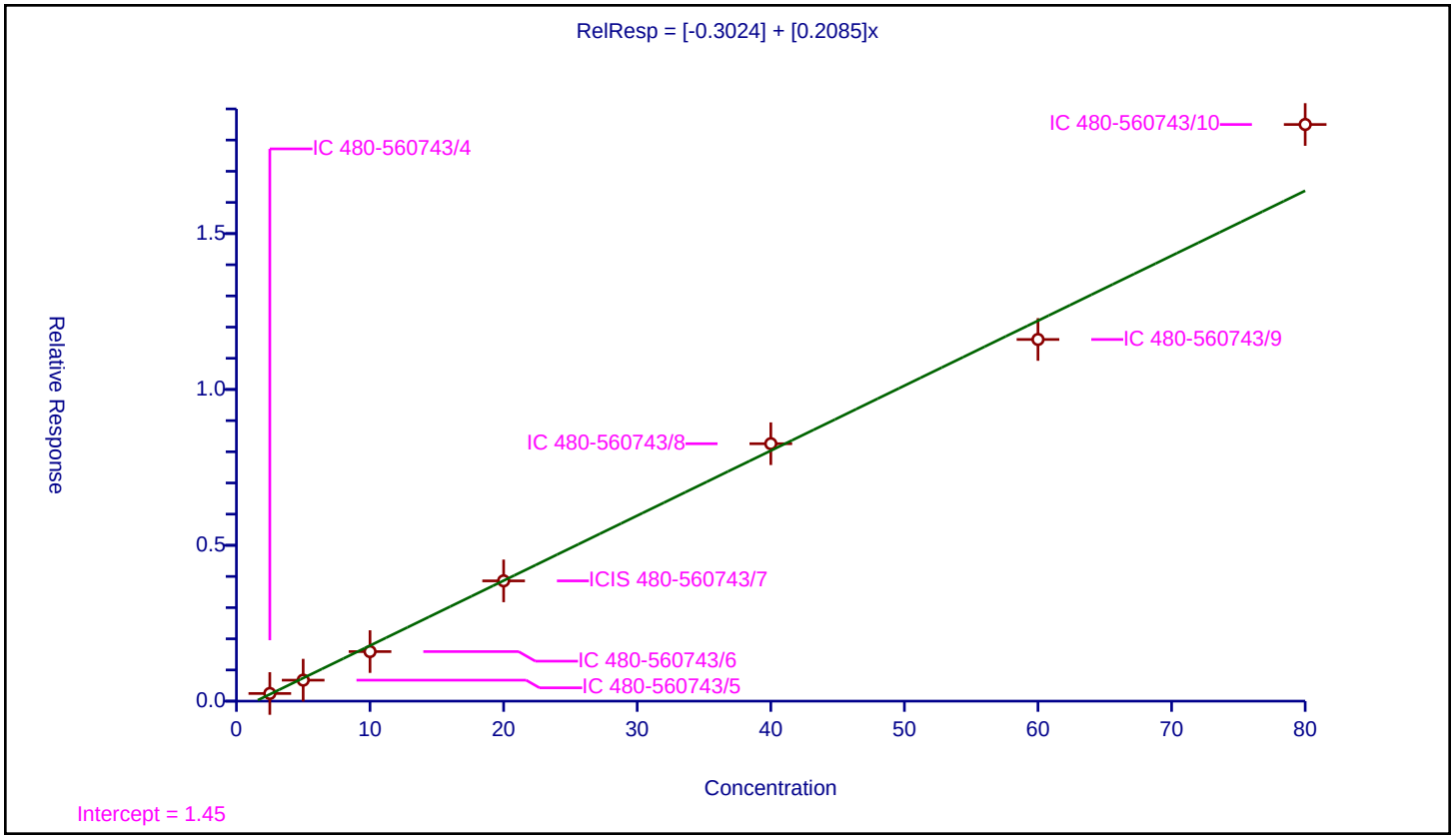
Curve Coefficients

Intercept:	-0.3024
Slope:	0.2085

Error Coefficients

Standard Error:	2500000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	2.5	0.245518	4.0	886695.0	0.098207	Y
2	IC 480-560743/5	5.0	0.673789	4.0	890178.0	0.134758	Y
3	IC 480-560743/6	10.0	1.589572	4.0	955095.0	0.158957	Y
4	ICIS 480-560743/7	20.0	3.859478	4.0	1123441.0	0.192974	Y
5	IC 480-560743/8	40.0	8.259437	4.0	943860.0	0.206486	Y
6	IC 480-560743/9	60.0	11.603433	4.0	1045745.0	0.193391	Y
7	IC 480-560743/10	80.0	18.499882	4.0	891034.0	0.231249	Y



Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

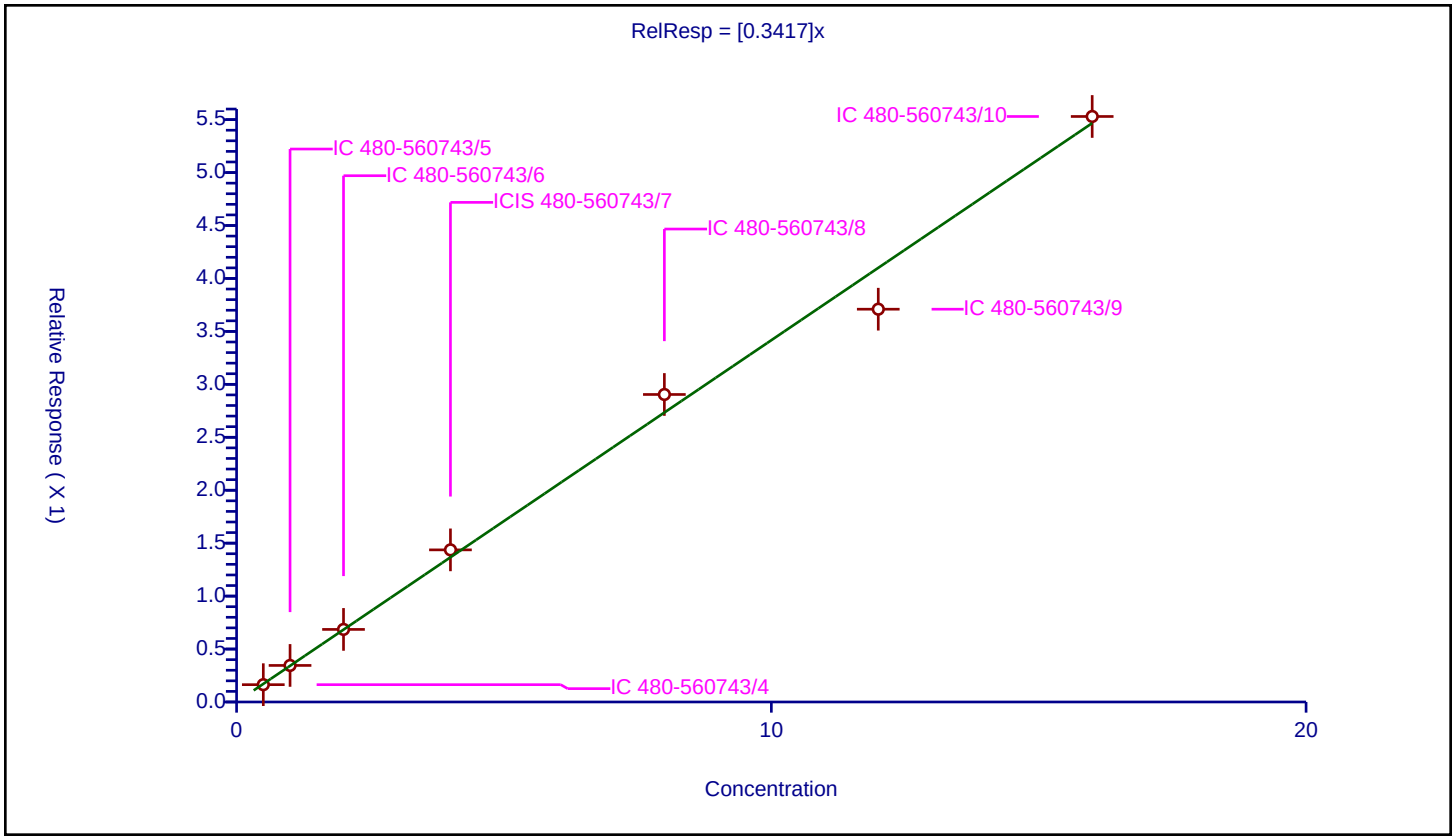
Curve Coefficients

Intercept:	0
Slope:	0.3417

Error Coefficients

Standard Error:	722000
Relative Standard Error:	5.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.163502	4.0	886695.0	0.327003	Y
2	IC 480-560743/5	1.0	0.345135	4.0	890178.0	0.345135	Y
3	IC 480-560743/6	2.0	0.685494	4.0	955095.0	0.342747	Y
4	ICIS 480-560743/7	4.0	1.436508	4.0	1123441.0	0.359127	Y
5	IC 480-560743/8	8.0	2.904164	4.0	943860.0	0.36302	Y
6	IC 480-560743/9	12.0	3.709589	4.0	1045745.0	0.309132	Y
7	IC 480-560743/10	16.0	5.529652	4.0	891034.0	0.345603	Y



Calibration / 2,4-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

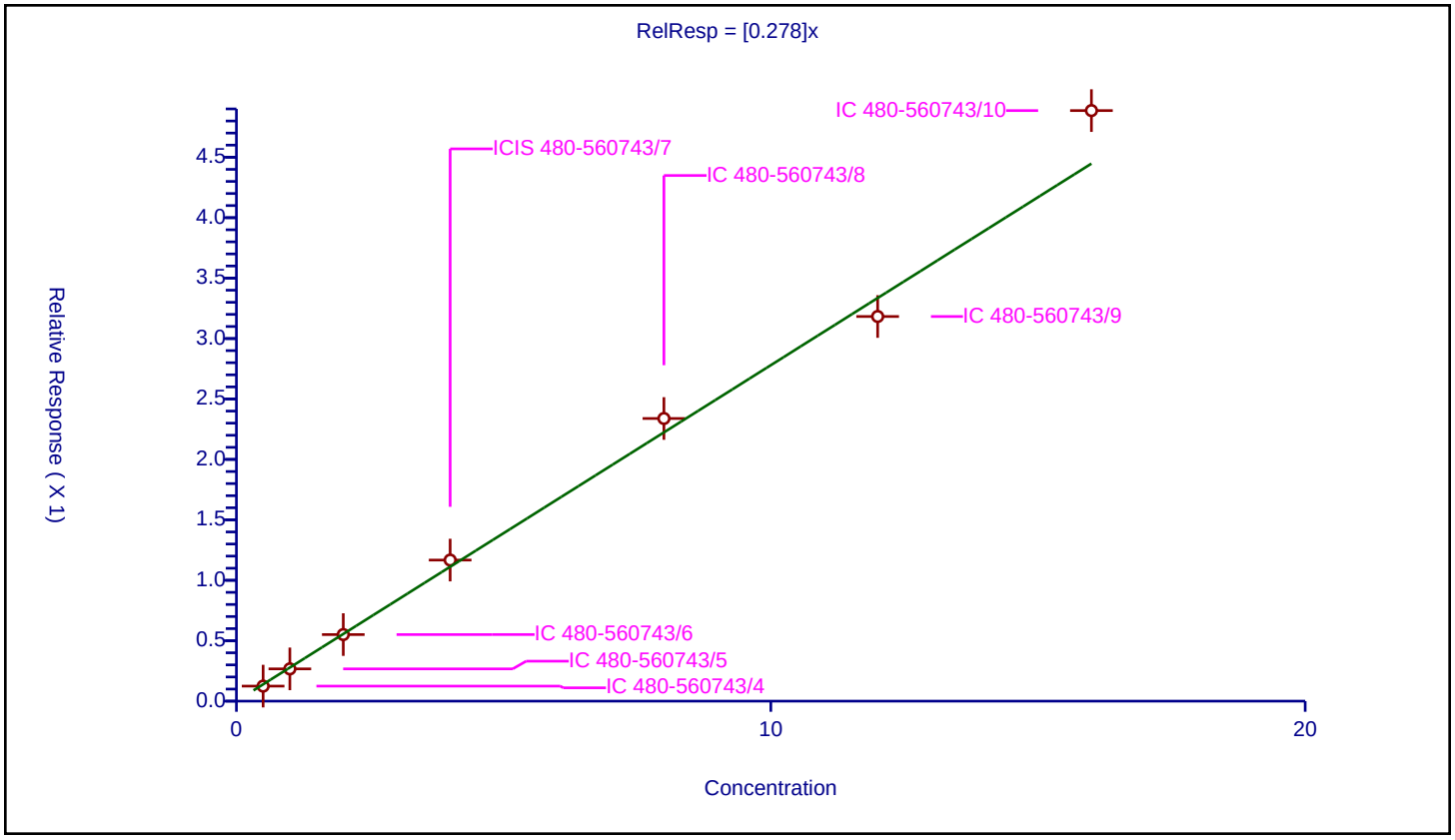
Curve Coefficients

Intercept:	0
Slope:	0.278

Error Coefficients

Standard Error:	621000
Relative Standard Error:	7.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.124376	4.0	886695.0	0.248753	Y
2	IC 480-560743/5	1.0	0.266913	4.0	890178.0	0.266913	Y
3	IC 480-560743/6	2.0	0.550781	4.0	955095.0	0.27539	Y
4	ICIS 480-560743/7	4.0	1.167054	4.0	1123441.0	0.291763	Y
5	IC 480-560743/8	8.0	2.338453	4.0	943860.0	0.292307	Y
6	IC 480-560743/9	12.0	3.182596	4.0	1045745.0	0.265216	Y
7	IC 480-560743/10	16.0	4.885829	4.0	891034.0	0.305364	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

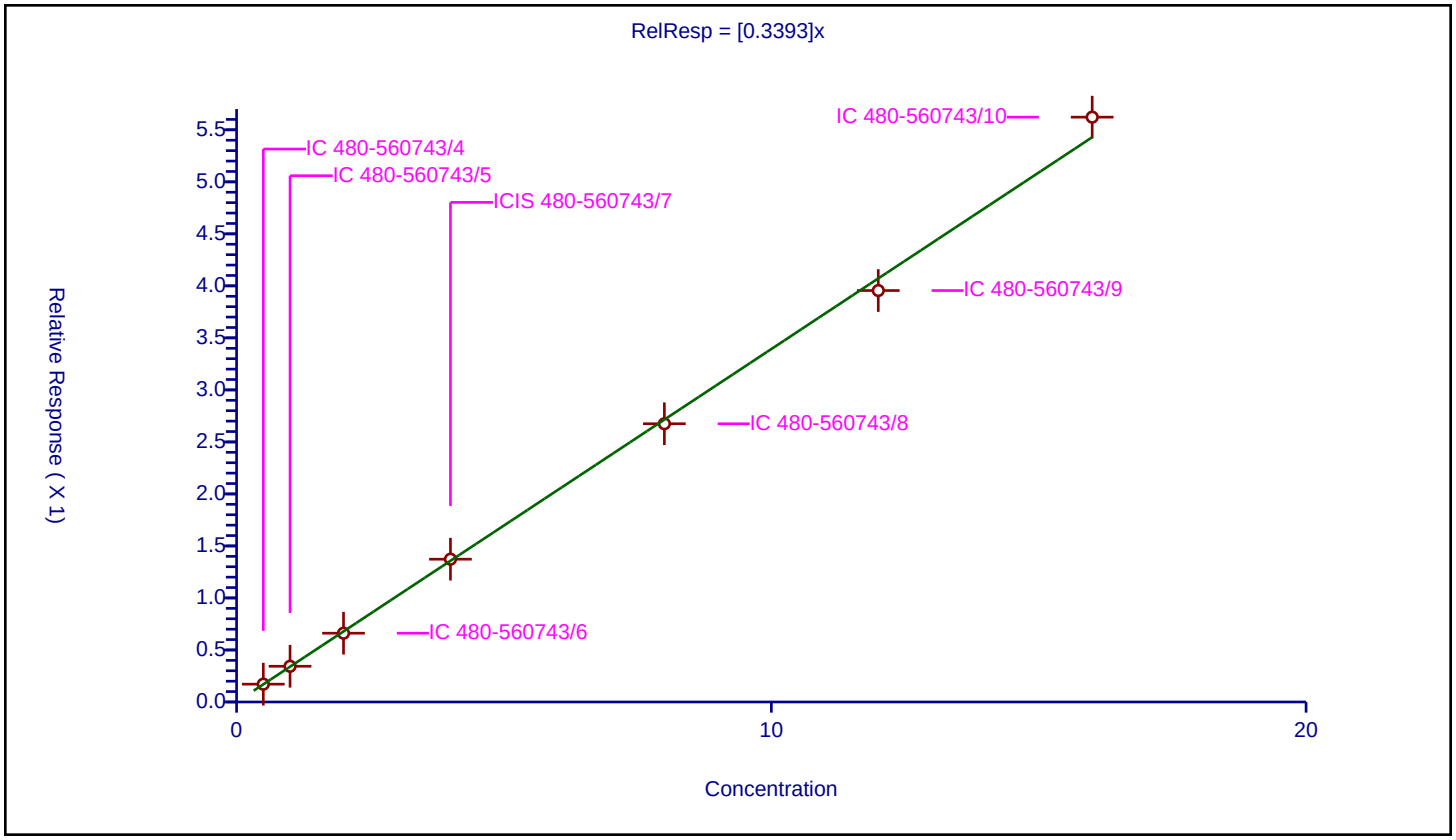
Curve Coefficients

Intercept:	0
Slope:	0.3393

Error Coefficients

Standard Error:	732000
Relative Standard Error:	2.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.171337	4.0	886695.0	0.342675	Y
2	IC 480-560743/5	1.0	0.343325	4.0	890178.0	0.343325	Y
3	IC 480-560743/6	2.0	0.661132	4.0	955095.0	0.330566	Y
4	ICIS 480-560743/7	4.0	1.372775	4.0	1123441.0	0.343194	Y
5	IC 480-560743/8	8.0	2.674706	4.0	943860.0	0.334338	Y
6	IC 480-560743/9	12.0	3.955014	4.0	1045745.0	0.329584	Y
7	IC 480-560743/10	16.0	5.621882	4.0	891034.0	0.351368	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

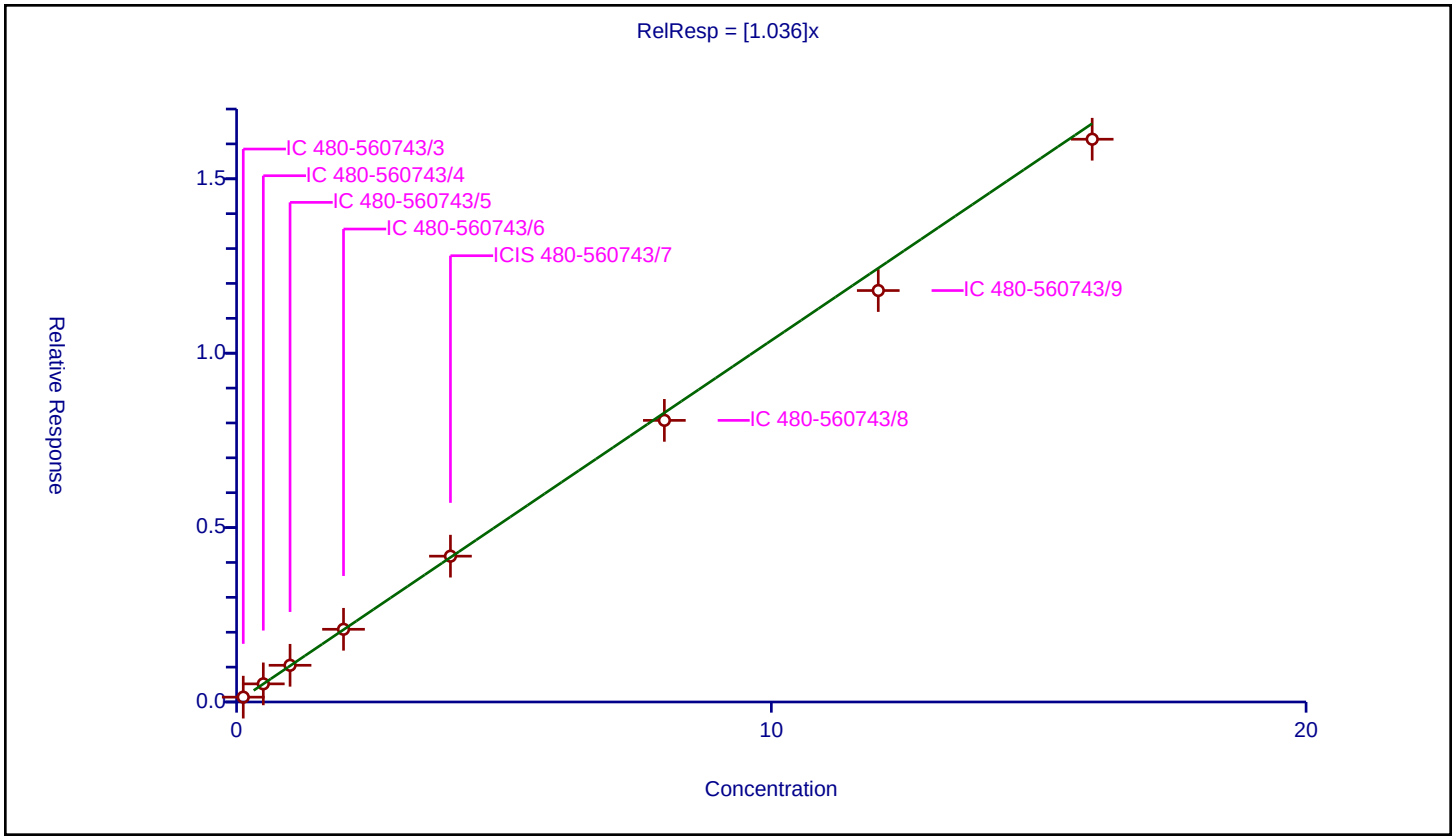
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	3.7
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.138819	4.0	882619.0	1.110549	Y
2	IC 480-560743/4	0.5	0.520404	4.0	886695.0	1.040809	Y
3	IC 480-560743/5	1.0	1.052347	4.0	890178.0	1.052347	Y
4	IC 480-560743/6	2.0	2.084274	4.0	955095.0	1.042137	Y
5	ICIS 480-560743/7	4.0	4.180841	4.0	1123441.0	1.04521	Y
6	IC 480-560743/8	8.0	8.074731	4.0	943860.0	1.009341	Y
7	IC 480-560743/9	12.0	11.796838	4.0	1045745.0	0.98307	Y
8	IC 480-560743/10	16.0	16.134931	4.0	891034.0	1.008433	Y



Calibration / 4-Chloroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

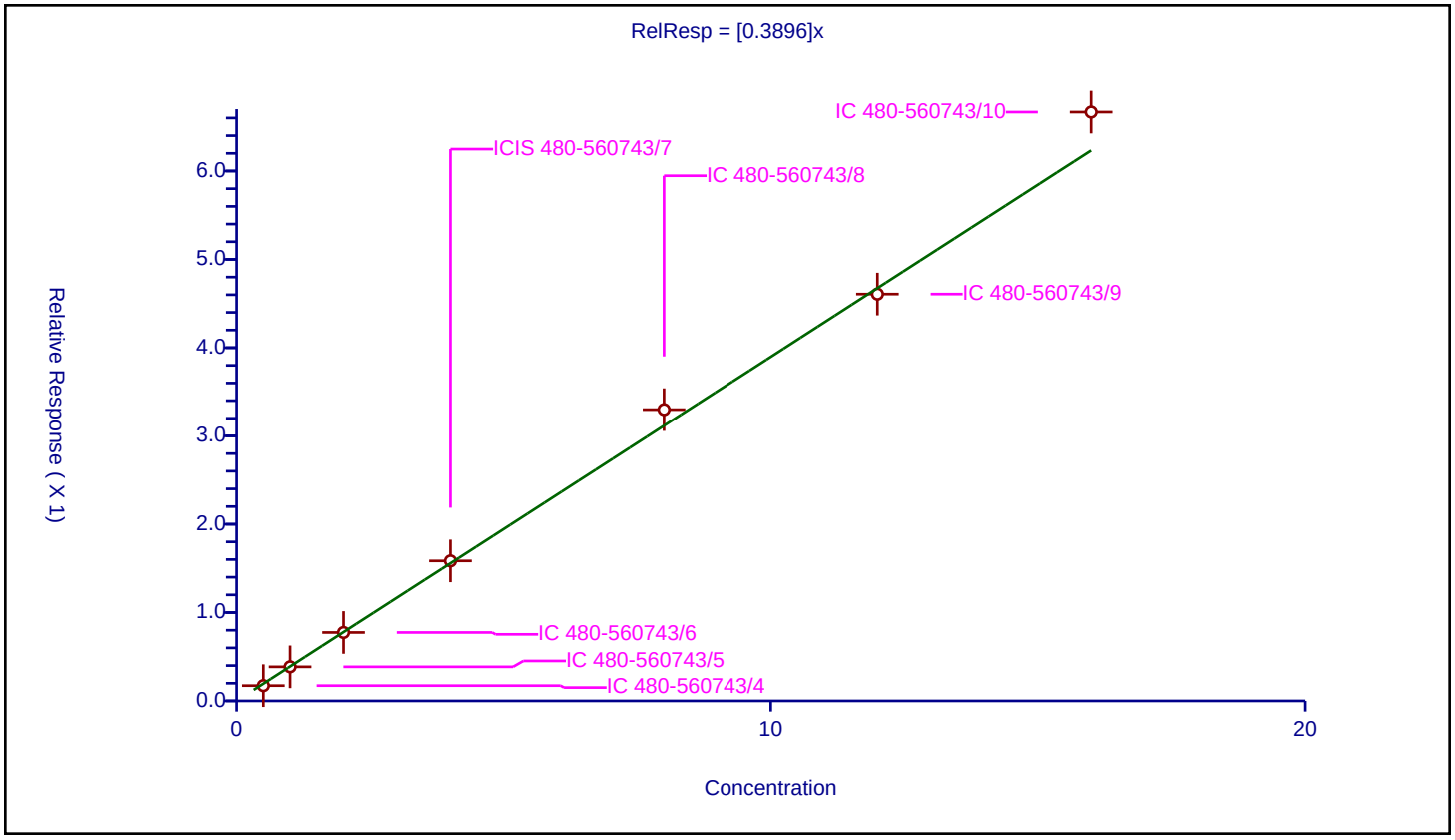
Curve Coefficients

Intercept:	0
Slope:	0.3896

Error Coefficients

Standard Error:	866000
Relative Standard Error:	6.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.172452	4.0	886695.0	0.344903	Y
2	IC 480-560743/5	1.0	0.385694	4.0	890178.0	0.385694	Y
3	IC 480-560743/6	2.0	0.774482	4.0	955095.0	0.387241	Y
4	ICIS 480-560743/7	4.0	1.584795	4.0	1123441.0	0.396199	Y
5	IC 480-560743/8	8.0	3.29826	4.0	943860.0	0.412283	Y
6	IC 480-560743/9	12.0	4.60707	4.0	1045745.0	0.383922	Y
7	IC 480-560743/10	16.0	6.66696	4.0	891034.0	0.416685	Y



Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

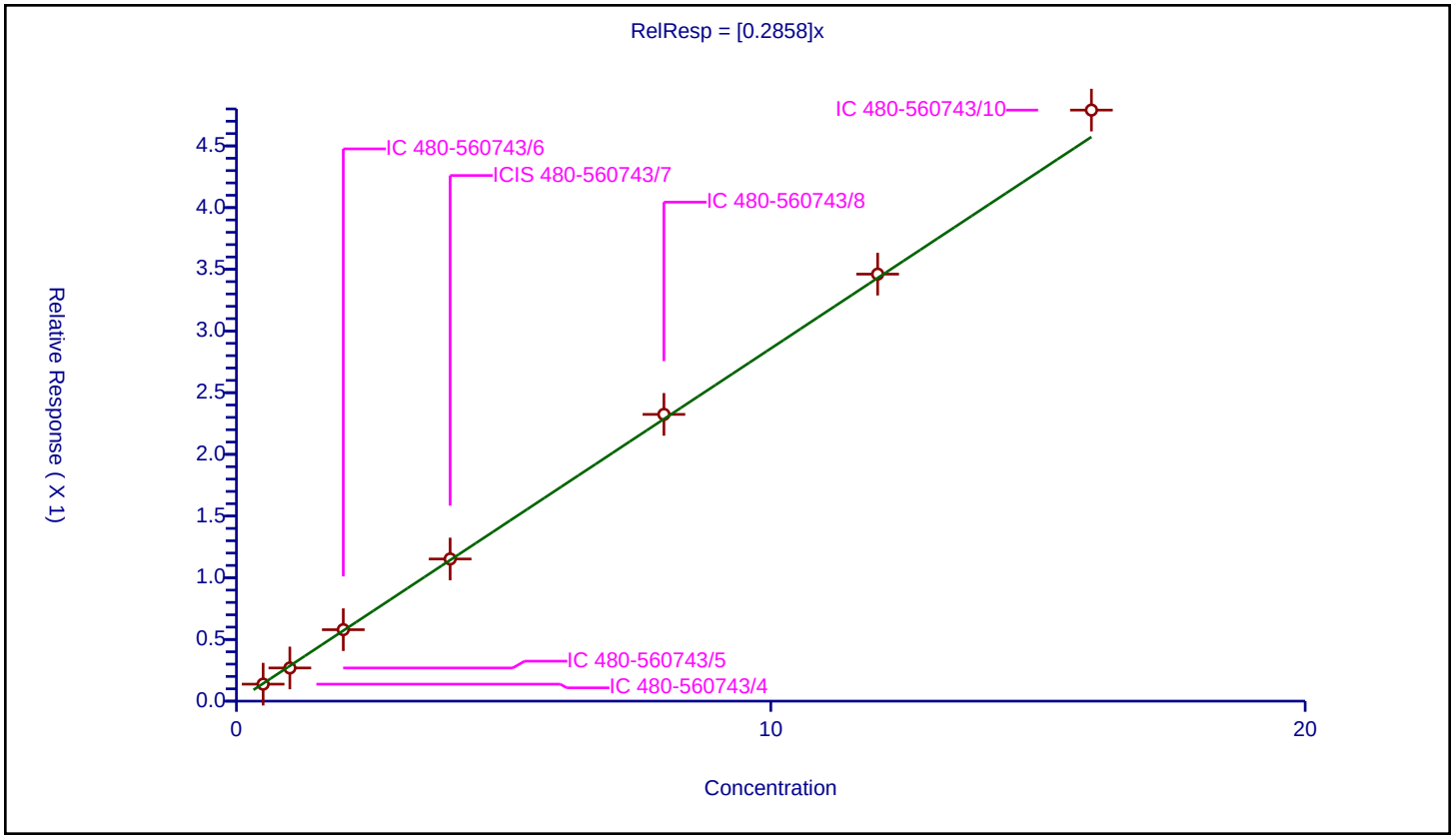
Curve Coefficients

Intercept:	0
Slope:	0.2858

Error Coefficients

Standard Error:	631000
Relative Standard Error:	3.6
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.137874	4.0	886695.0	0.275748	Y
2	IC 480-560743/5	1.0	0.268859	4.0	890178.0	0.268859	Y
3	IC 480-560743/6	2.0	0.579331	4.0	955095.0	0.289665	Y
4	ICIS 480-560743/7	4.0	1.152456	4.0	1123441.0	0.288114	Y
5	IC 480-560743/8	8.0	2.32434	4.0	943860.0	0.290543	Y
6	IC 480-560743/9	12.0	3.46102	4.0	1045745.0	0.288418	Y
7	IC 480-560743/10	16.0	4.790277	4.0	891034.0	0.299392	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

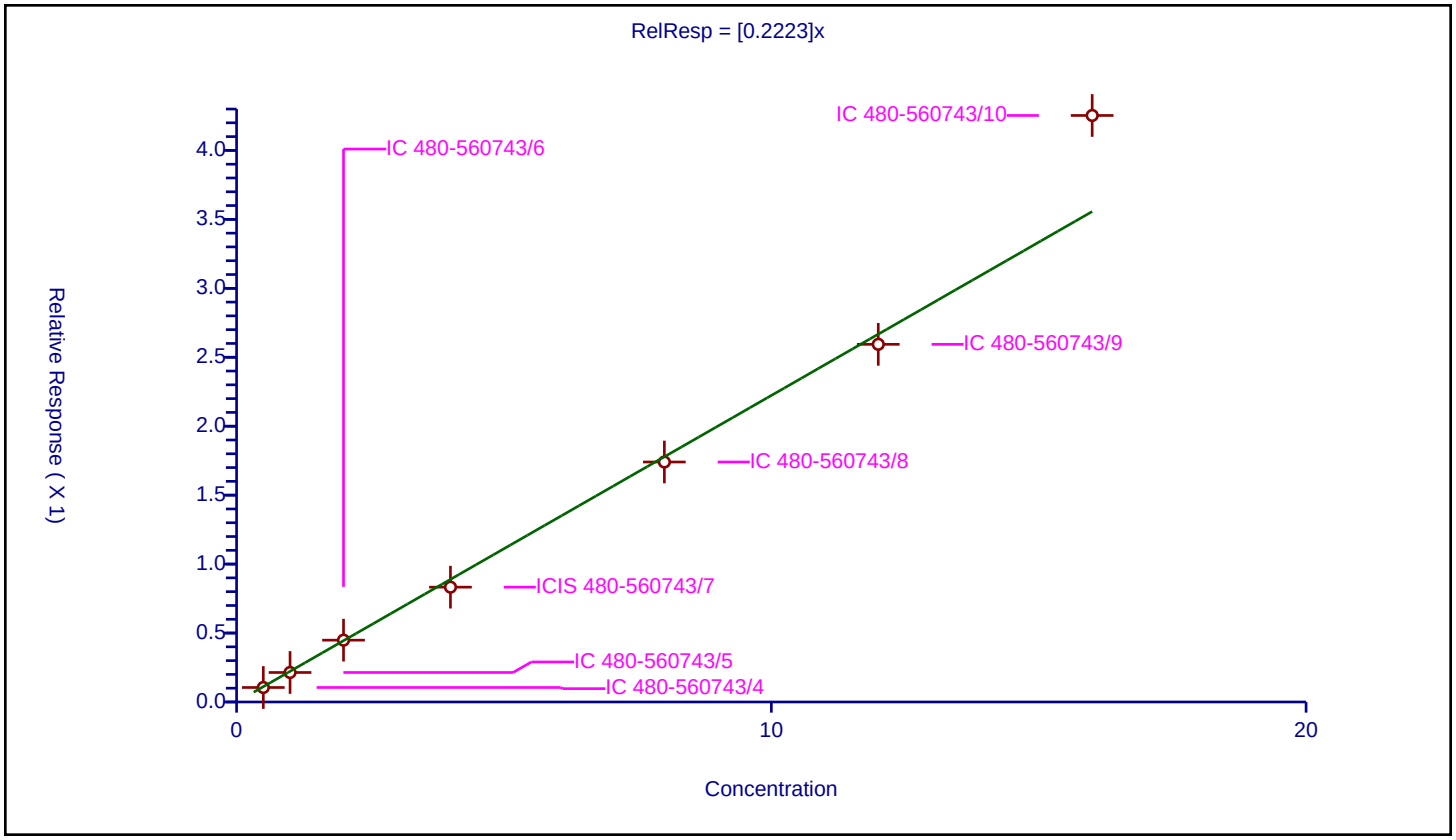
Curve Coefficients

Intercept:	0
Slope:	0.2223

Error Coefficients

Standard Error:	516000
Relative Standard Error:	8.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.105114	4.0	886695.0	0.210228	Y
2	IC 480-560743/5	1.0	0.213935	4.0	890178.0	0.213935	Y
3	IC 480-560743/6	2.0	0.448249	4.0	955095.0	0.224124	Y
4	ICIS 480-560743/7	4.0	0.832799	4.0	1123441.0	0.2082	Y
5	IC 480-560743/8	8.0	1.74025	4.0	943860.0	0.217531	Y
6	IC 480-560743/9	12.0	2.593806	4.0	1045745.0	0.216151	Y
7	IC 480-560743/10	16.0	4.253283	4.0	891034.0	0.26583	Y



Calibration / Caprolactam

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

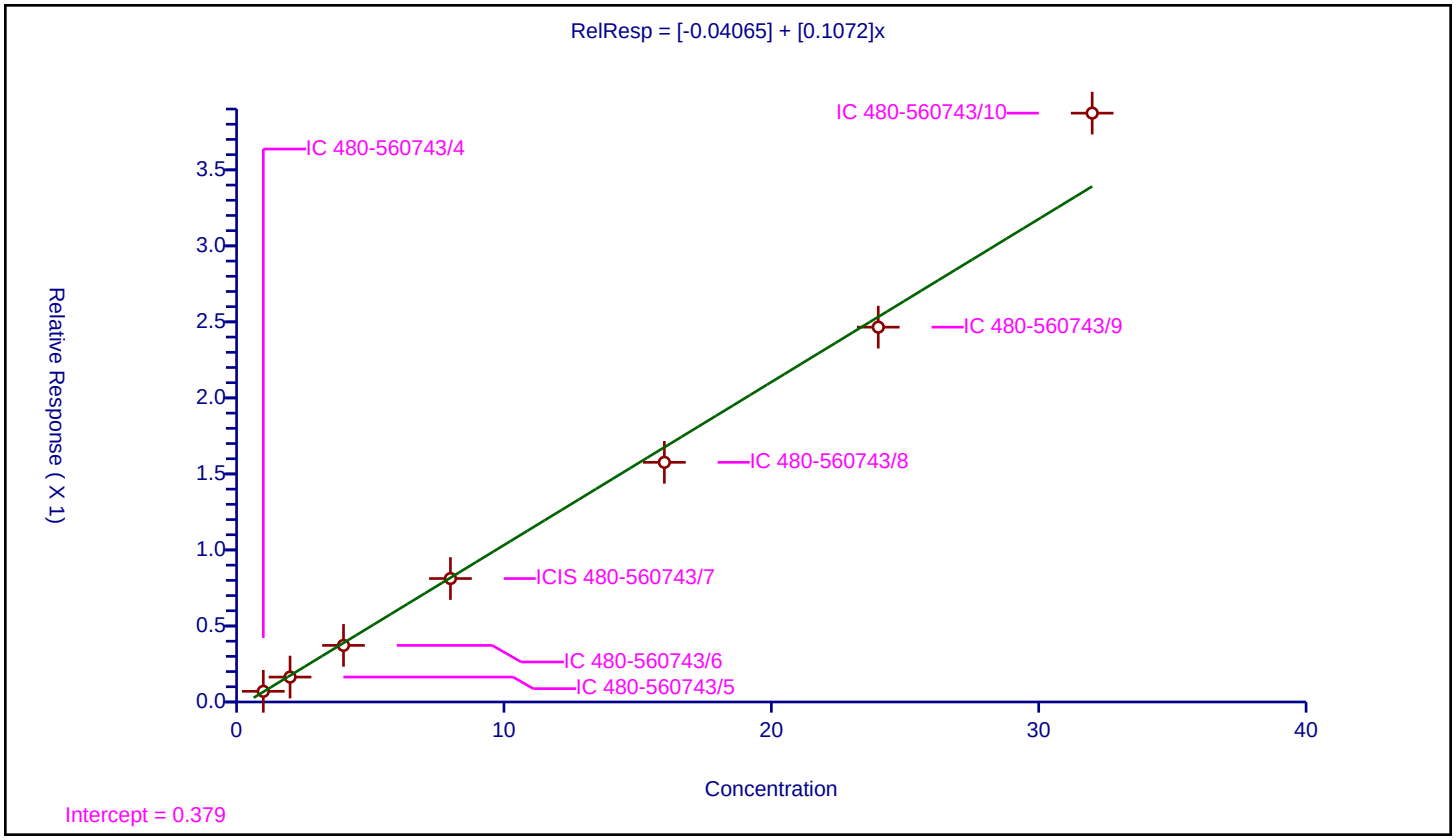
Curve Coefficients

Intercept:	-0.04065
Slope:	0.1072

Error Coefficients

Standard Error:	521000
Relative Standard Error:	7.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.070202	4.0	886695.0	0.070202	Y
2	IC 480-560743/5	2.0	0.163837	4.0	890178.0	0.081918	Y
3	IC 480-560743/6	4.0	0.372323	4.0	955095.0	0.093081	Y
4	ICIS 480-560743/7	8.0	0.81192	4.0	1123441.0	0.10149	Y
5	IC 480-560743/8	16.0	1.576234	4.0	943860.0	0.098515	Y
6	IC 480-560743/9	24.0	2.465404	4.0	1045745.0	0.102725	Y
7	IC 480-560743/10	32.0	3.872975	4.0	891034.0	0.12103	Y



Calibration / 4-Chloro-3-methylphenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

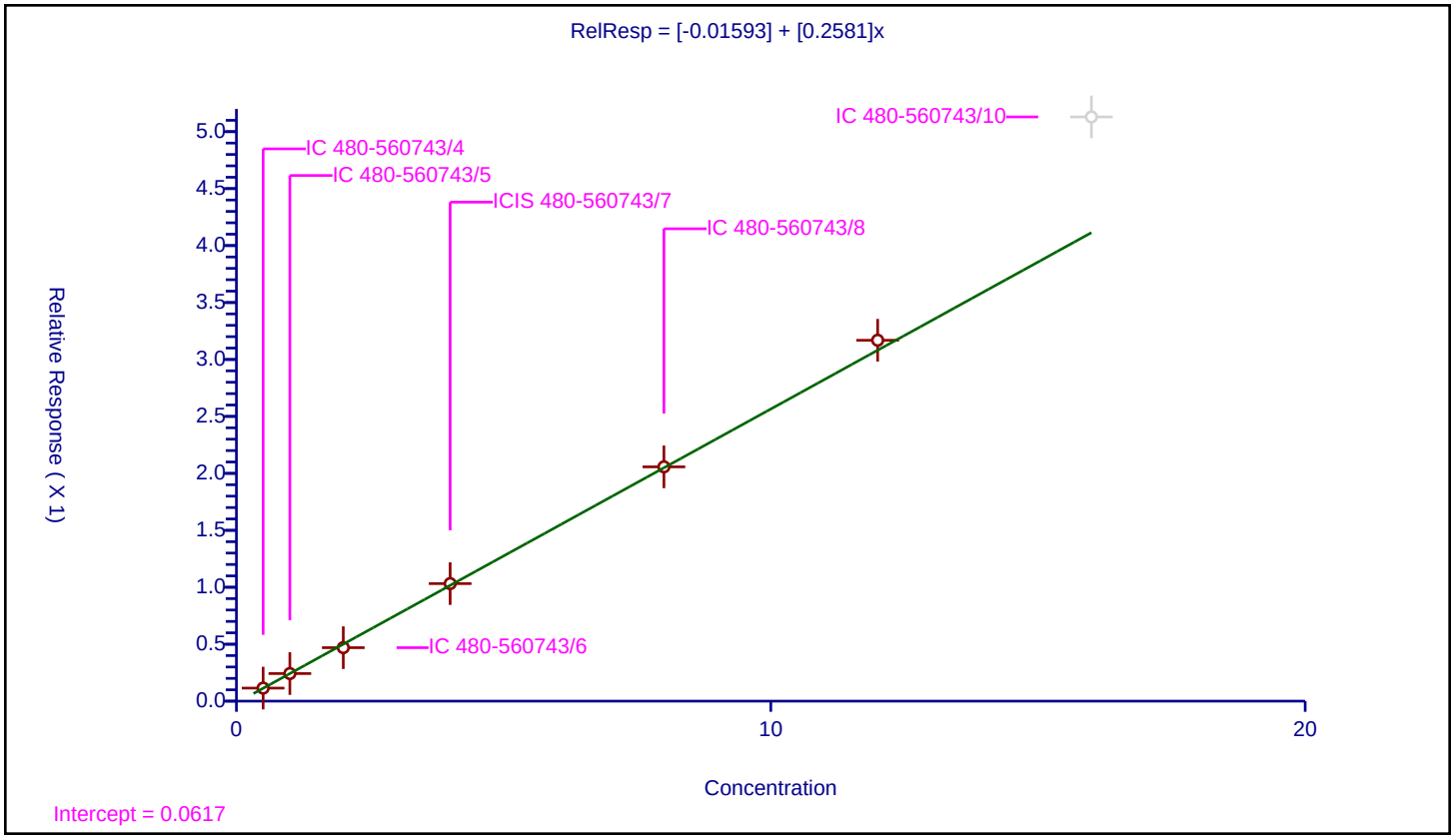
Curve Coefficients

Intercept:	-0.01593
Slope:	0.2581

Error Coefficients

Standard Error:	506000
Relative Standard Error:	3.4
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.114574	4.0	886695.0	0.229148	Y
2	IC 480-560743/5	1.0	0.242244	4.0	890178.0	0.242244	Y
3	IC 480-560743/6	2.0	0.469717	4.0	955095.0	0.234858	Y
4	ICIS 480-560743/7	4.0	1.032029	4.0	1123441.0	0.258007	Y
5	IC 480-560743/8	8.0	2.057225	4.0	943860.0	0.257153	Y
6	IC 480-560743/9	12.0	3.168895	4.0	1045745.0	0.264075	Y
7	IC 480-560743/10	16.0	5.129533	4.0	891034.0	0.320596	N



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

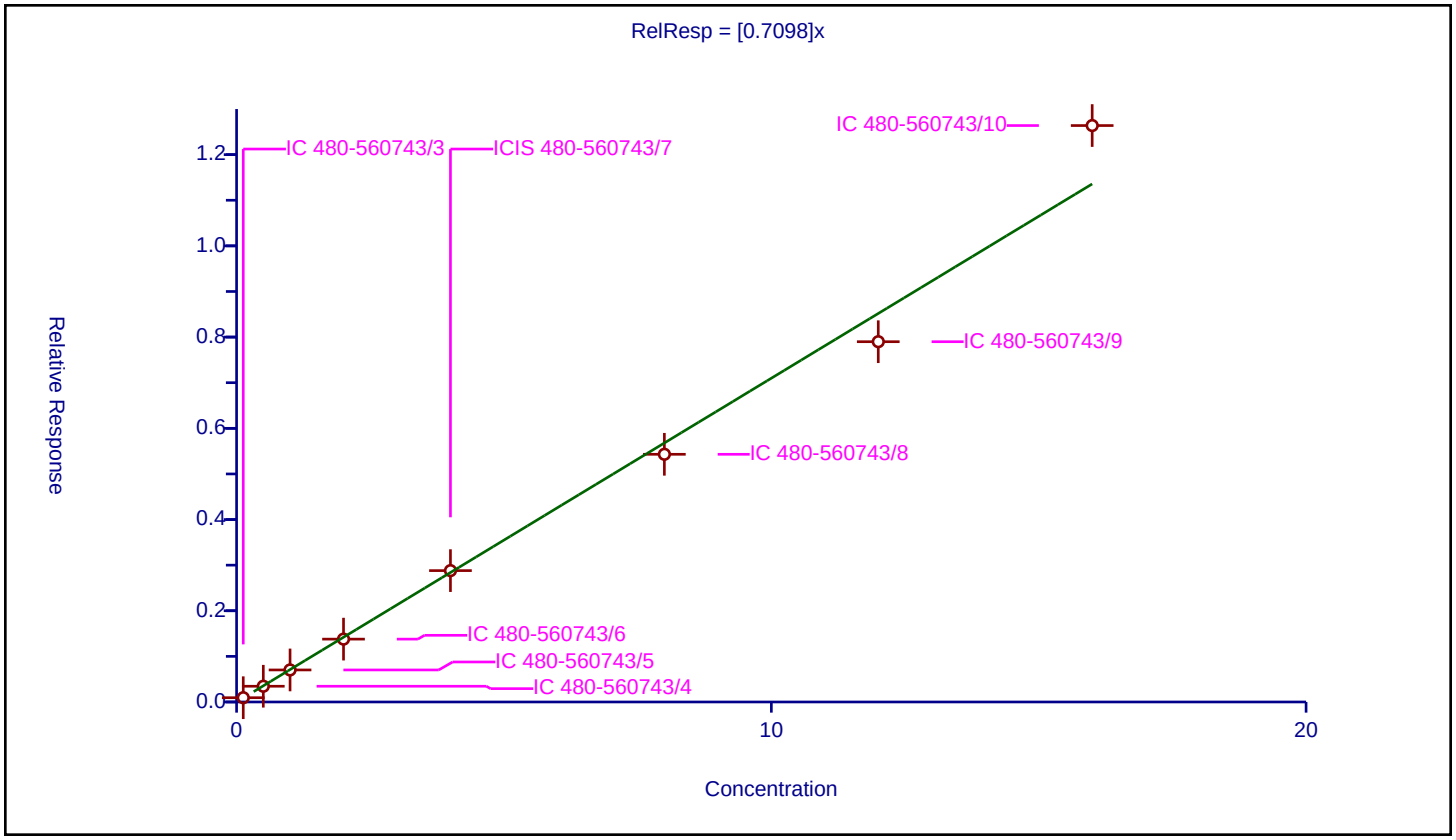
Curve Coefficients

Intercept:	0
Slope:	0.7098

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	6.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.093694	4.0	882619.0	0.749551	Y
2	IC 480-560743/4	0.5	0.345318	4.0	886695.0	0.690637	Y
3	IC 480-560743/5	1.0	0.702466	4.0	890178.0	0.702466	Y
4	IC 480-560743/6	2.0	1.378183	4.0	955095.0	0.689092	Y
5	ICIS 480-560743/7	4.0	2.879874	4.0	1123441.0	0.719968	Y
6	IC 480-560743/8	8.0	5.430577	4.0	943860.0	0.678822	Y
7	IC 480-560743/9	12.0	7.899375	4.0	1045745.0	0.658281	Y
8	IC 480-560743/10	16.0	12.637601	4.0	891034.0	0.78985	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

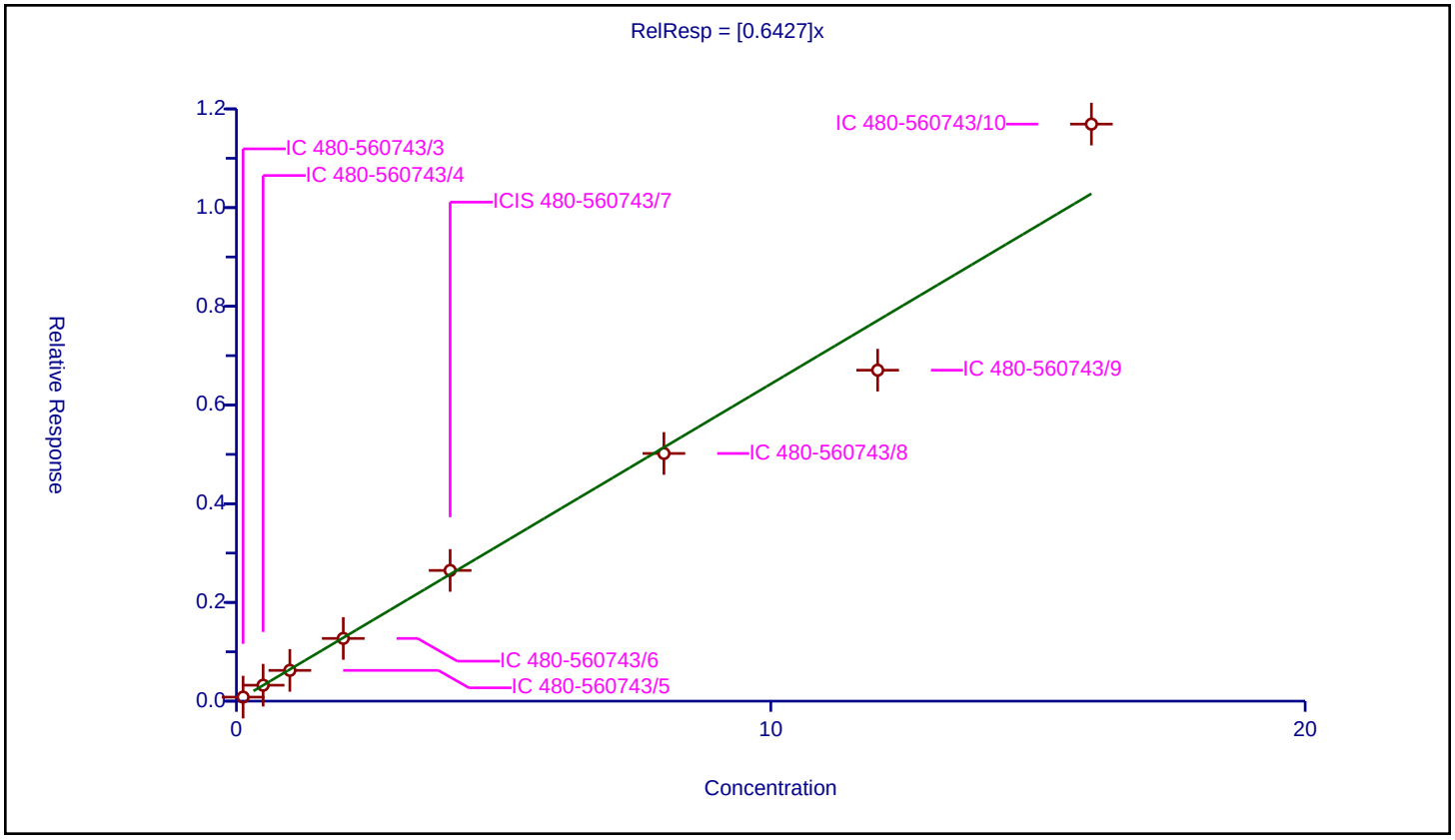
Curve Coefficients

Intercept:	0
Slope:	0.6427

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	7.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.082097	4.0	882619.0	0.656773	Y
2	IC 480-560743/4	0.5	0.323137	4.0	886695.0	0.646274	Y
3	IC 480-560743/5	1.0	0.623493	4.0	890178.0	0.623493	Y
4	IC 480-560743/6	2.0	1.271254	4.0	955095.0	0.635627	Y
5	ICIS 480-560743/7	4.0	2.64914	4.0	1123441.0	0.662285	Y
6	IC 480-560743/8	8.0	5.018443	4.0	943860.0	0.627305	Y
7	IC 480-560743/9	12.0	6.706013	4.0	1045745.0	0.558834	Y
8	IC 480-560743/10	16.0	11.691971	4.0	891034.0	0.730748	Y



Calibration / Hexachlorocyclopentadiene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

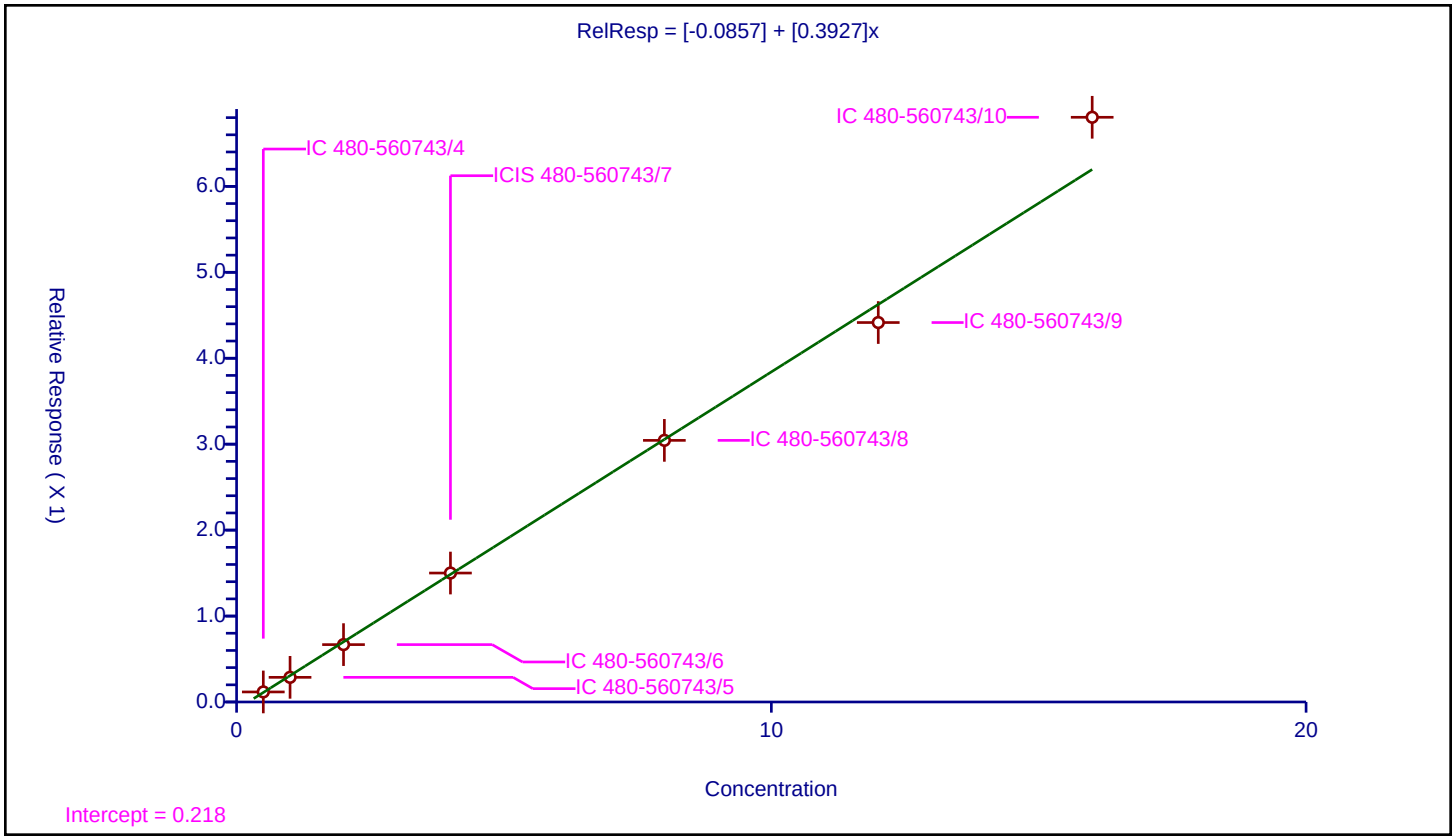
Curve Coefficients

Intercept:	-0.0857
Slope:	0.3927

Error Coefficients

Standard Error:	528000
Relative Standard Error:	5.8
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.117241	4.0	483244.0	0.234482	Y
2	IC 480-560743/5	1.0	0.286795	4.0	474960.0	0.286795	Y
3	IC 480-560743/6	2.0	0.667533	4.0	515876.0	0.333766	Y
4	ICIS 480-560743/7	4.0	1.500835	4.0	582841.0	0.375209	Y
5	IC 480-560743/8	8.0	3.044408	4.0	514835.0	0.380551	Y
6	IC 480-560743/9	12.0	4.415478	4.0	541150.0	0.367957	Y
7	IC 480-560743/10	16.0	6.804024	4.0	533760.0	0.425252	Y



Calibration / 1,2,4,5-Tetrachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

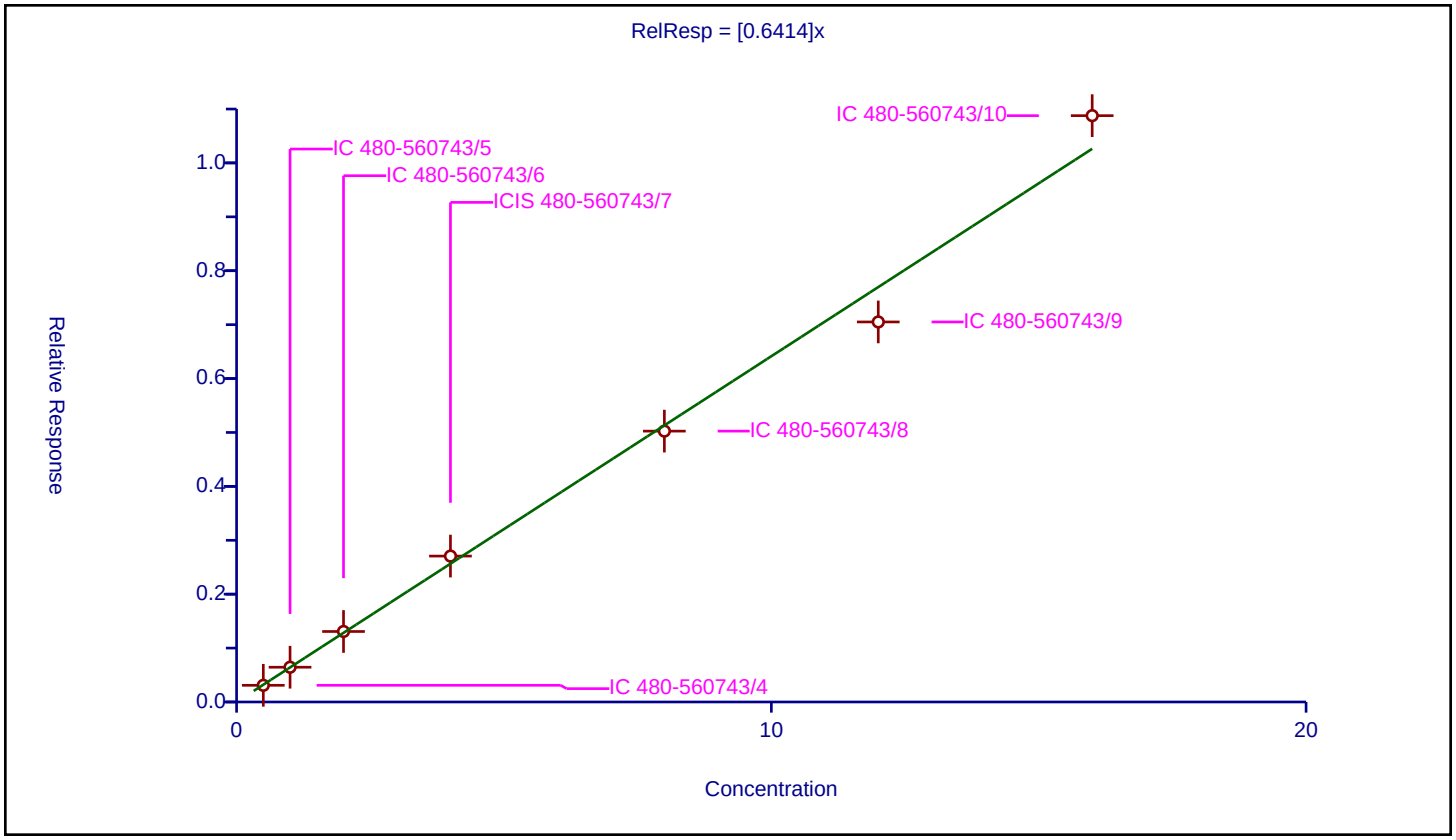
Curve Coefficients

Intercept:	0
Slope:	0.6414

Error Coefficients

Standard Error:	777000
Relative Standard Error:	5.1
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.309442	4.0	483244.0	0.618884	Y
2	IC 480-560743/5	1.0	0.644753	4.0	474960.0	0.644753	Y
3	IC 480-560743/6	2.0	1.308097	4.0	515876.0	0.654049	Y
4	ICIS 480-560743/7	4.0	2.706563	4.0	582841.0	0.676641	Y
5	IC 480-560743/8	8.0	5.025105	4.0	514835.0	0.628138	Y
6	IC 480-560743/9	12.0	7.050023	4.0	541150.0	0.587502	Y
7	IC 480-560743/10	16.0	10.876986	4.0	533760.0	0.679812	Y



Calibration / 2,4,6-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

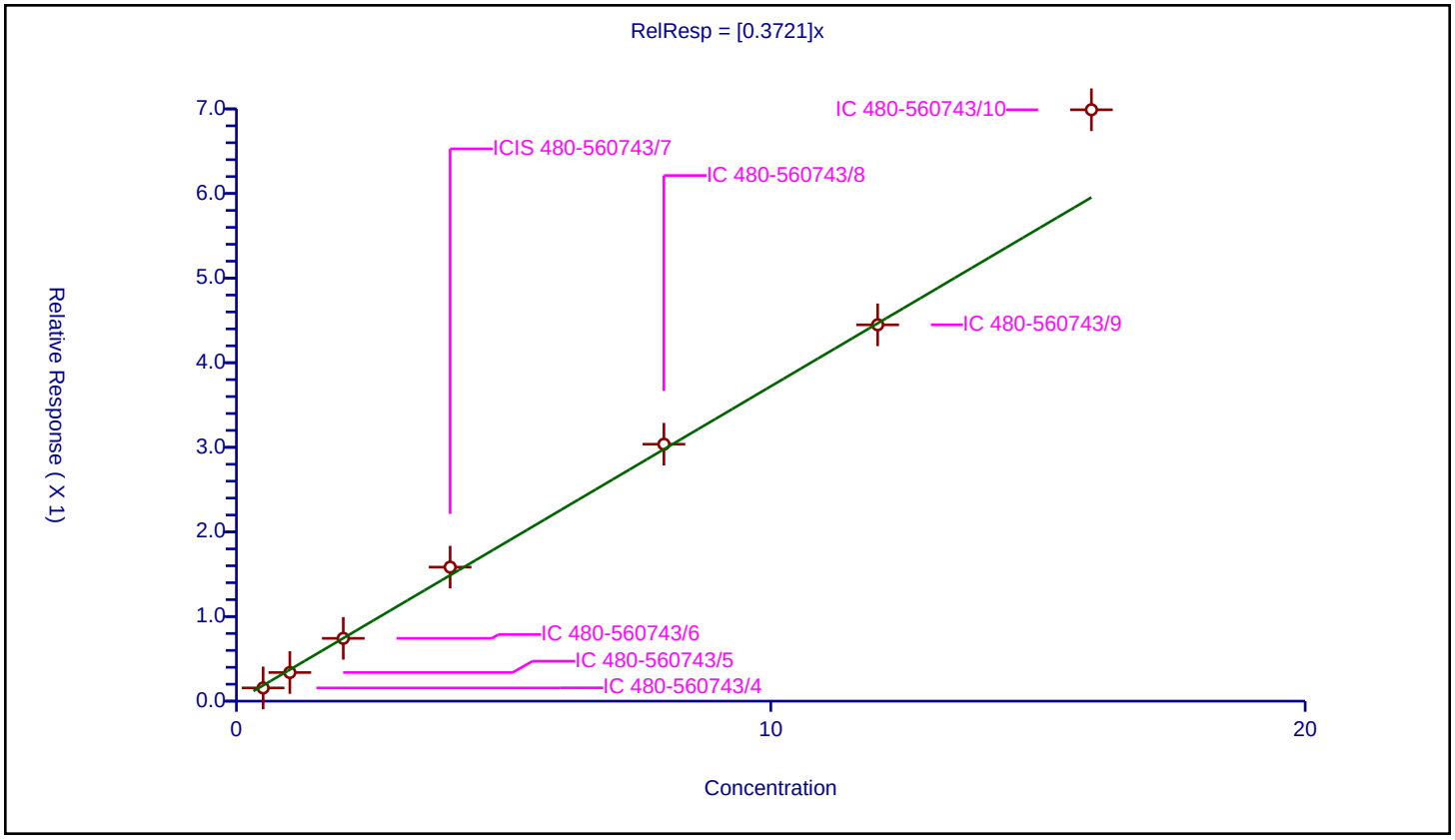
Curve Coefficients

Intercept:	0
Slope:	0.3721

Error Coefficients

Standard Error:	491000
Relative Standard Error:	10.7
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.155979	4.0	483244.0	0.311958	Y
2	IC 480-560743/5	1.0	0.338462	4.0	474960.0	0.338462	Y
3	IC 480-560743/6	2.0	0.742411	4.0	515876.0	0.371205	Y
4	ICIS 480-560743/7	4.0	1.584041	4.0	582841.0	0.39601	Y
5	IC 480-560743/8	8.0	3.037035	4.0	514835.0	0.379629	Y
6	IC 480-560743/9	12.0	4.448364	4.0	541150.0	0.370697	Y
7	IC 480-560743/10	16.0	6.989793	4.0	533760.0	0.436862	Y



Calibration / 2,4,5-Trichlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

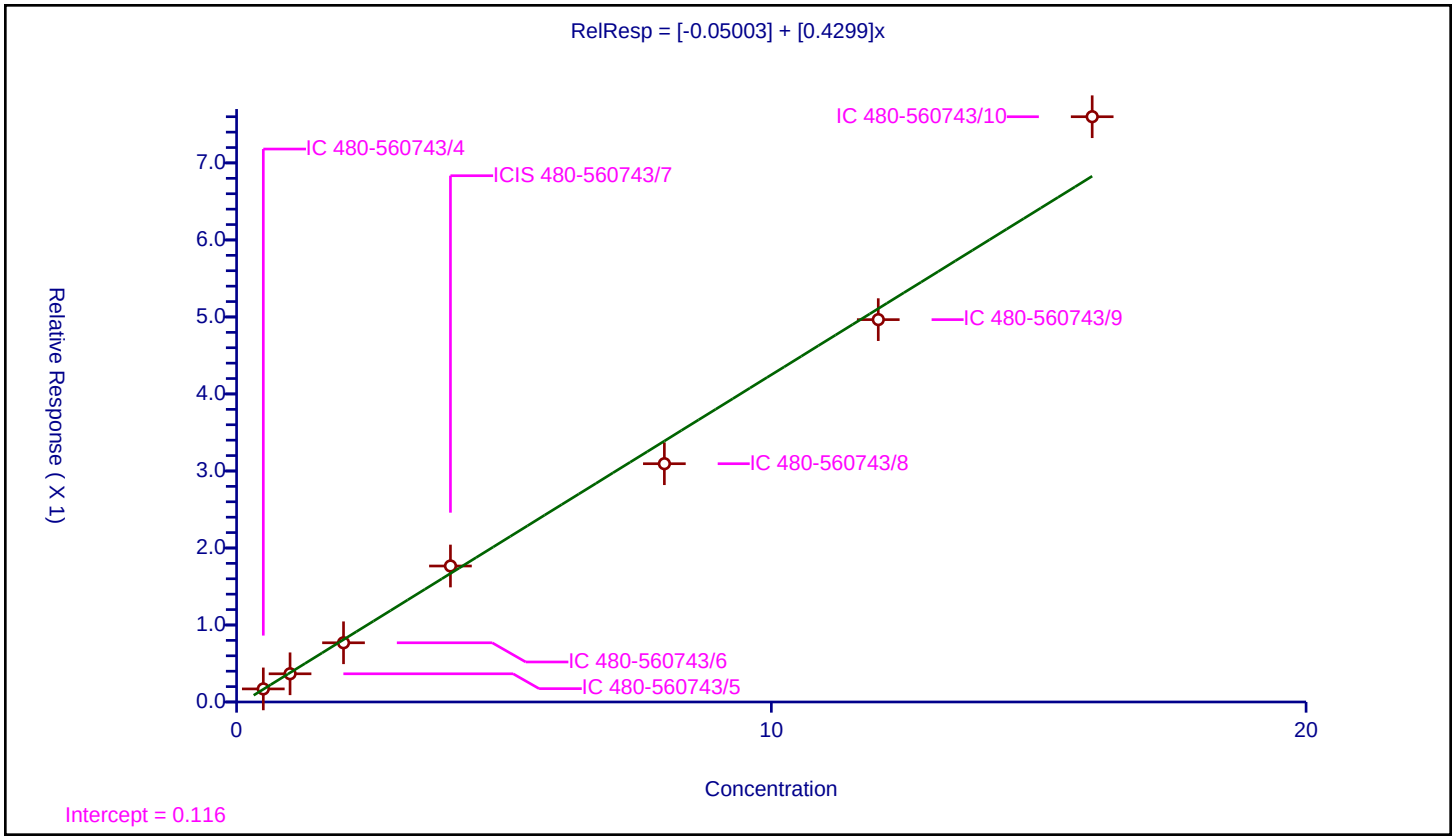
Curve Coefficients

Intercept:	-0.05003
Slope:	0.4299

Error Coefficients

Standard Error:	586000
Relative Standard Error:	7.4
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.16991	4.0	483244.0	0.33982	Y
2	IC 480-560743/5	1.0	0.366599	4.0	474960.0	0.366599	Y
3	IC 480-560743/6	2.0	0.768906	4.0	515876.0	0.384453	Y
4	ICIS 480-560743/7	4.0	1.766067	4.0	582841.0	0.441517	Y
5	IC 480-560743/8	8.0	3.094102	4.0	514835.0	0.386763	Y
6	IC 480-560743/9	12.0	4.965499	4.0	541150.0	0.413792	Y
7	IC 480-560743/10	16.0	7.60036	4.0	533760.0	0.475022	Y



Calibration / 2-Fluorobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

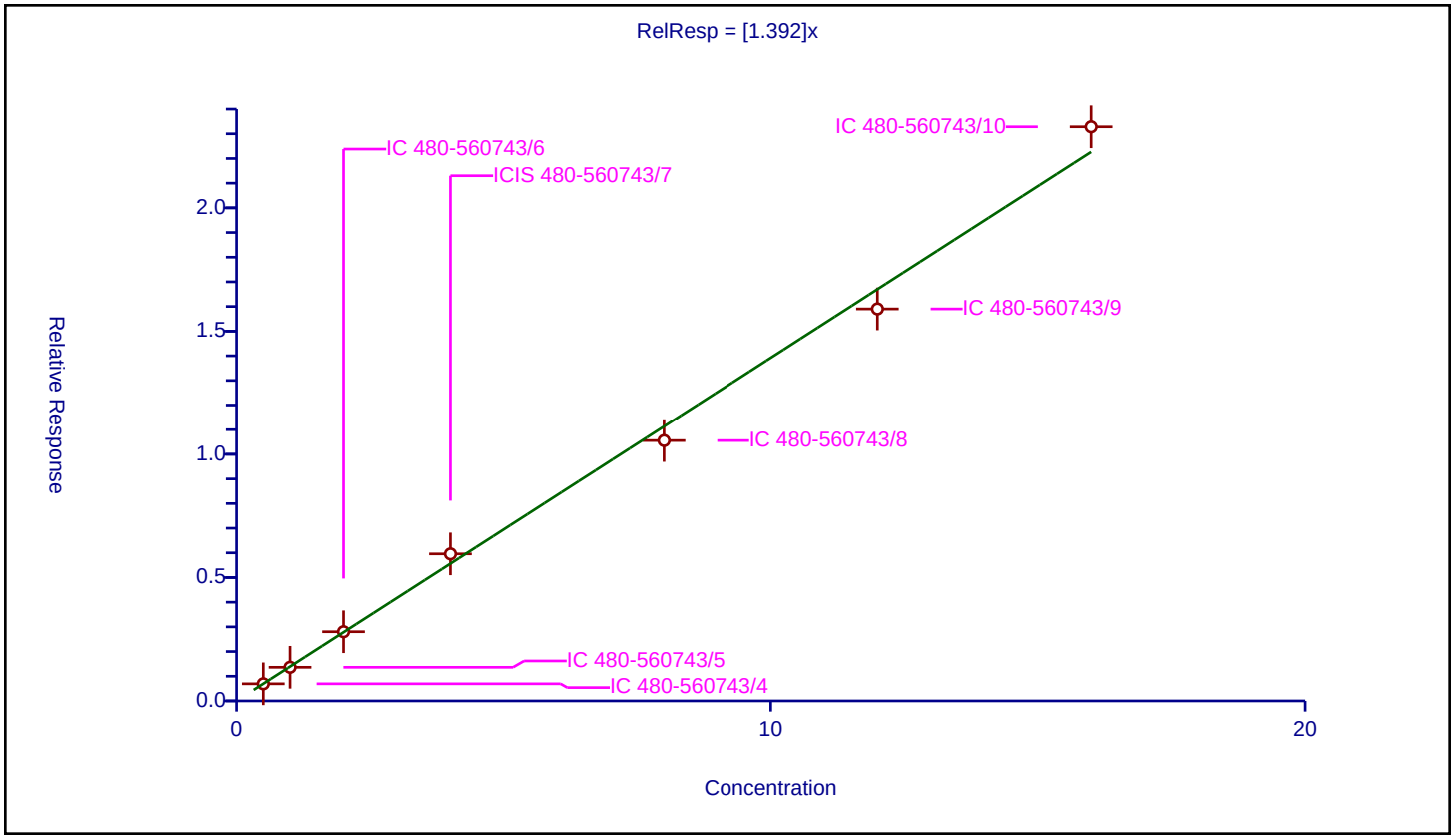
Curve Coefficients

Intercept:	0
Slope:	1.392

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	4.6
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.693306	4.0	483244.0	1.386612	Y
2	IC 480-560743/5	1.0	1.362936	4.0	474960.0	1.362936	Y
3	IC 480-560743/6	2.0	2.803356	4.0	515876.0	1.401678	Y
4	ICIS 480-560743/7	4.0	5.9591	4.0	582841.0	1.489775	Y
5	IC 480-560743/8	8.0	10.556796	4.0	514835.0	1.319599	Y
6	IC 480-560743/9	12.0	15.901617	4.0	541150.0	1.325135	Y
7	IC 480-560743/10	16.0	23.284105	4.0	533760.0	1.455257	Y



Calibration / 1,1'-Biphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

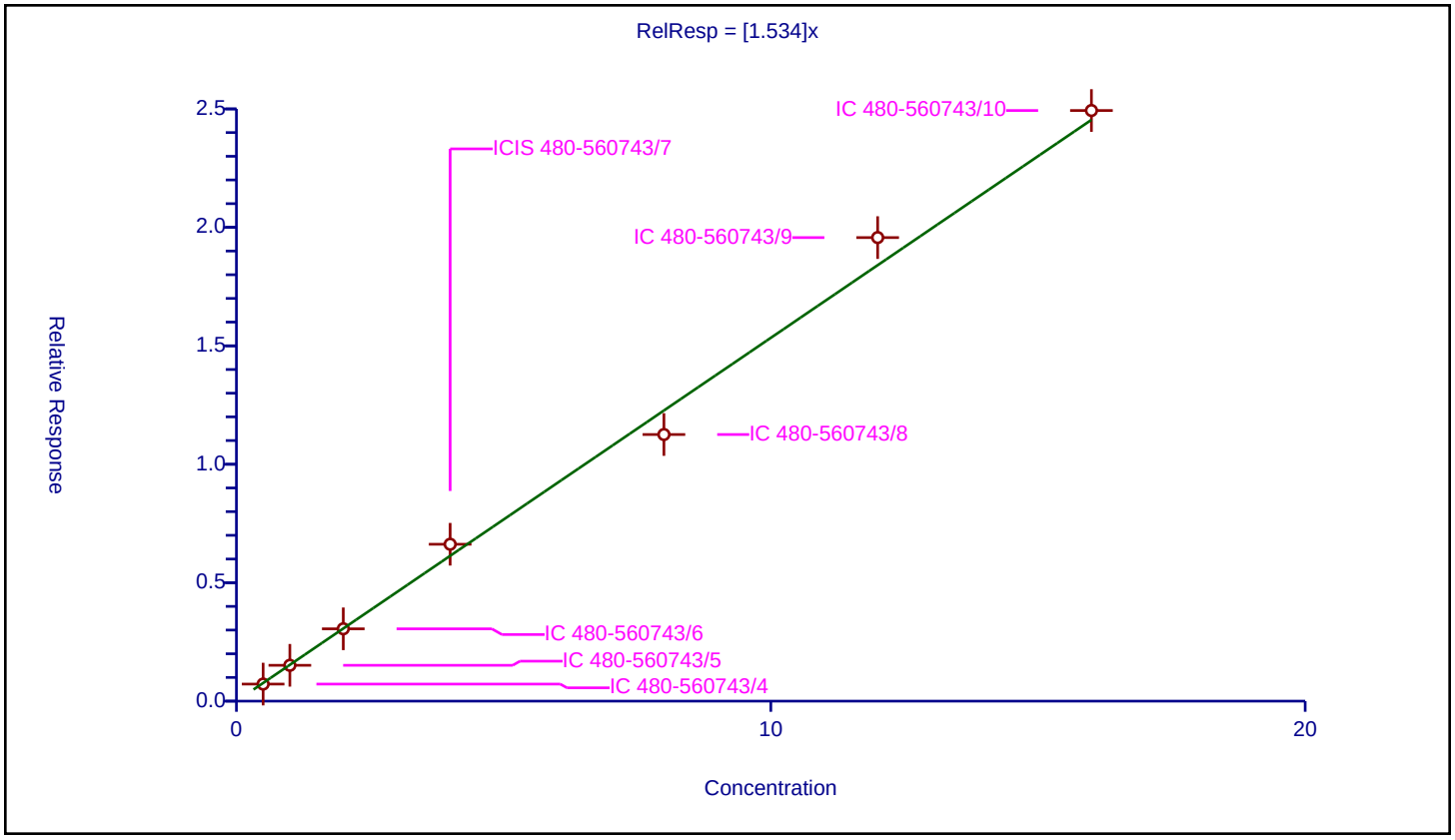
Curve Coefficients

Intercept:	0
Slope:	1.534

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	5.9
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.721582	4.0	483244.0	1.443163	Y
2	IC 480-560743/5	1.0	1.512852	4.0	474960.0	1.512852	Y
3	IC 480-560743/6	2.0	3.054579	4.0	515876.0	1.52729	Y
4	ICIS 480-560743/7	4.0	6.623185	4.0	582841.0	1.655796	Y
5	IC 480-560743/8	8.0	11.255101	4.0	514835.0	1.406888	Y
6	IC 480-560743/9	12.0	19.568061	4.0	541150.0	1.630672	Y
7	IC 480-560743/10	16.0	24.931243	4.0	533760.0	1.558203	Y



Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

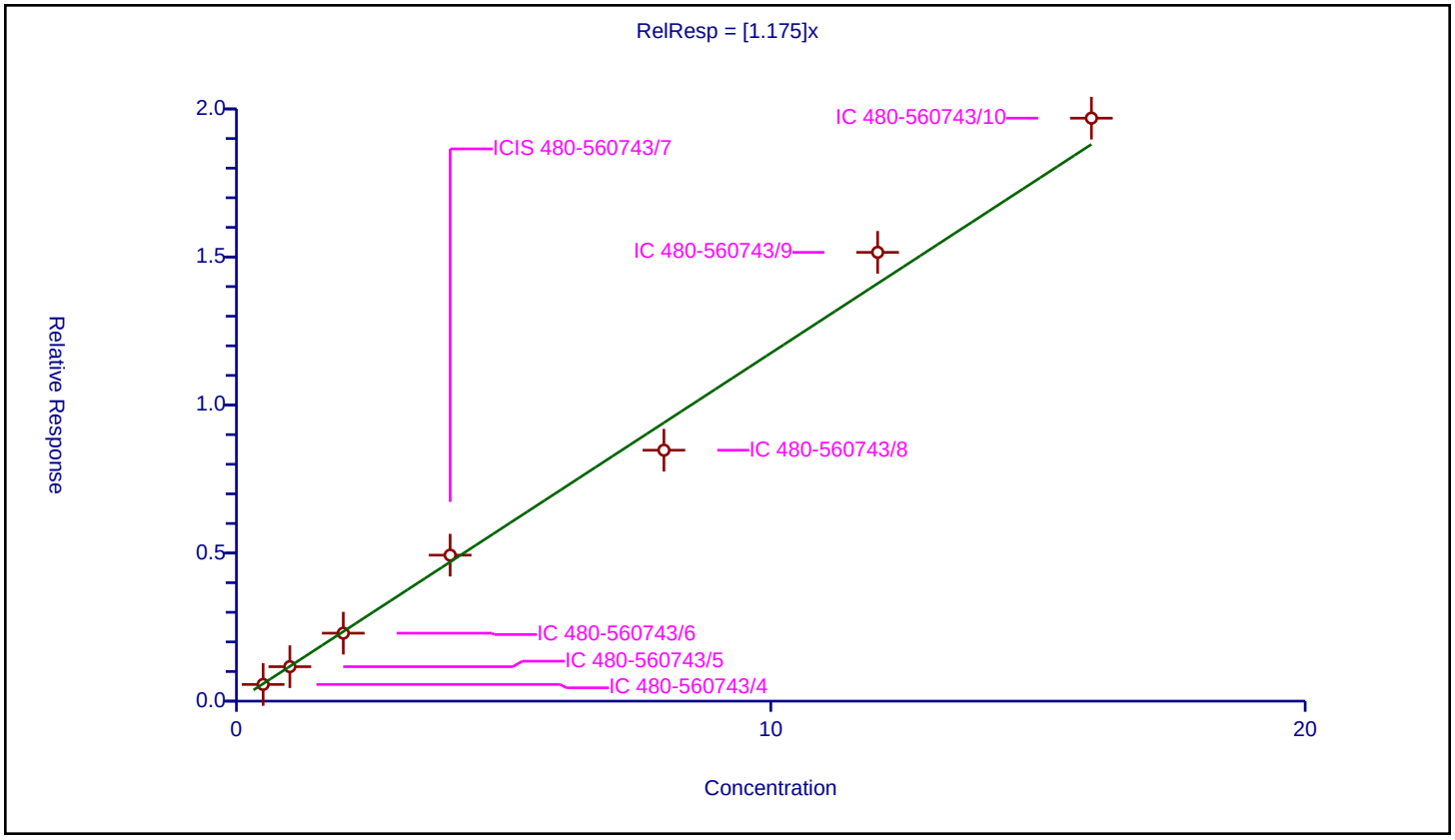
Curve Coefficients

Intercept:	0
Slope:	1.175

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	6.1
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.564402	4.0	483244.0	1.128804	Y
2	IC 480-560743/5	1.0	1.164688	4.0	474960.0	1.164688	Y
3	IC 480-560743/6	2.0	2.296063	4.0	515876.0	1.148032	Y
4	ICIS 480-560743/7	4.0	4.929914	4.0	582841.0	1.232478	Y
5	IC 480-560743/8	8.0	8.475119	4.0	514835.0	1.05939	Y
6	IC 480-560743/9	12.0	15.15653	4.0	541150.0	1.263044	Y
7	IC 480-560743/10	16.0	19.688002	4.0	533760.0	1.2305	Y



Calibration / 2-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

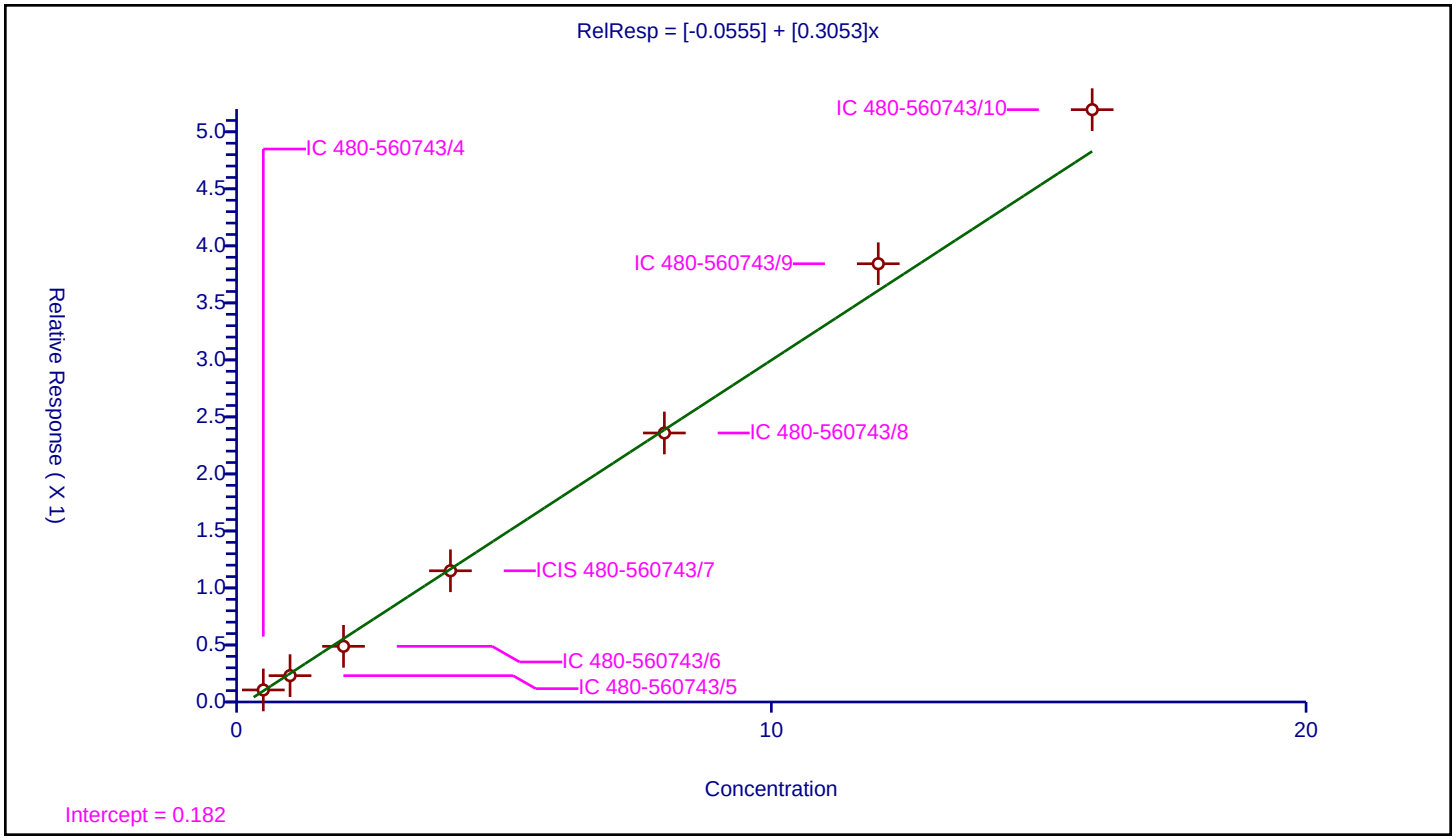
Curve Coefficients

Intercept:	-0.0555
Slope:	0.3053

Error Coefficients

Standard Error:	419000
Relative Standard Error:	7.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.105553	4.0	483244.0	0.211107	Y
2	IC 480-560743/5	1.0	0.231152	4.0	474960.0	0.231152	Y
3	IC 480-560743/6	2.0	0.488443	4.0	515876.0	0.244221	Y
4	ICIS 480-560743/7	4.0	1.150736	4.0	582841.0	0.287684	Y
5	IC 480-560743/8	8.0	2.358868	4.0	514835.0	0.294859	Y
6	IC 480-560743/9	12.0	3.843186	4.0	541150.0	0.320265	Y
7	IC 480-560743/10	16.0	5.194305	4.0	533760.0	0.324644	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

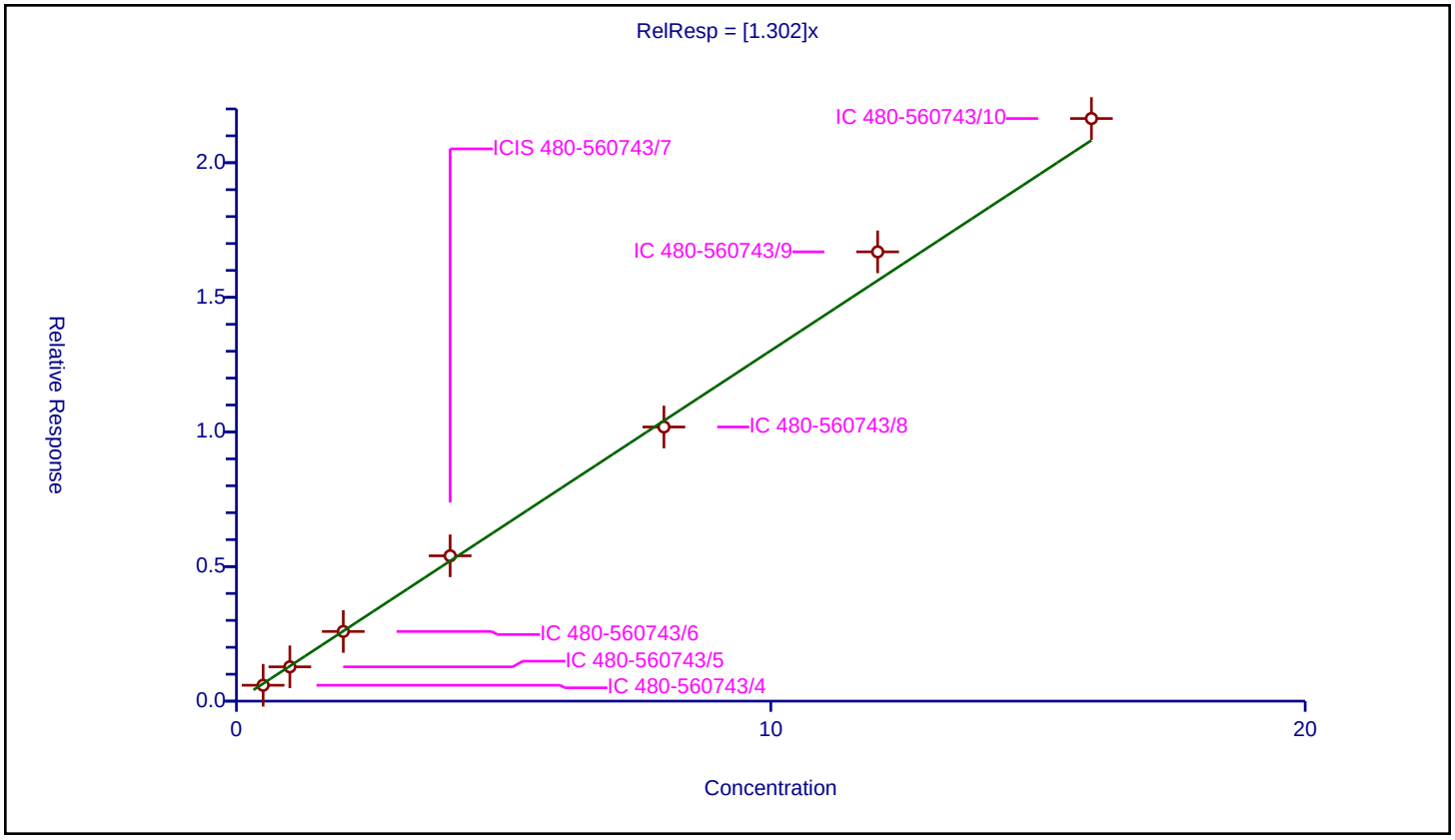
Curve Coefficients

Intercept:	0
Slope:	1.302

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	5.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.590493	4.0	483244.0	1.180985	Y
2	IC 480-560743/5	1.0	1.273446	4.0	474960.0	1.273446	Y
3	IC 480-560743/6	2.0	2.589087	4.0	515876.0	1.294544	Y
4	ICIS 480-560743/7	4.0	5.398014	4.0	582841.0	1.349504	Y
5	IC 480-560743/8	8.0	10.184537	4.0	514835.0	1.273067	Y
6	IC 480-560743/9	12.0	16.690219	4.0	541150.0	1.390852	Y
7	IC 480-560743/10	16.0	21.642956	4.0	533760.0	1.352685	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

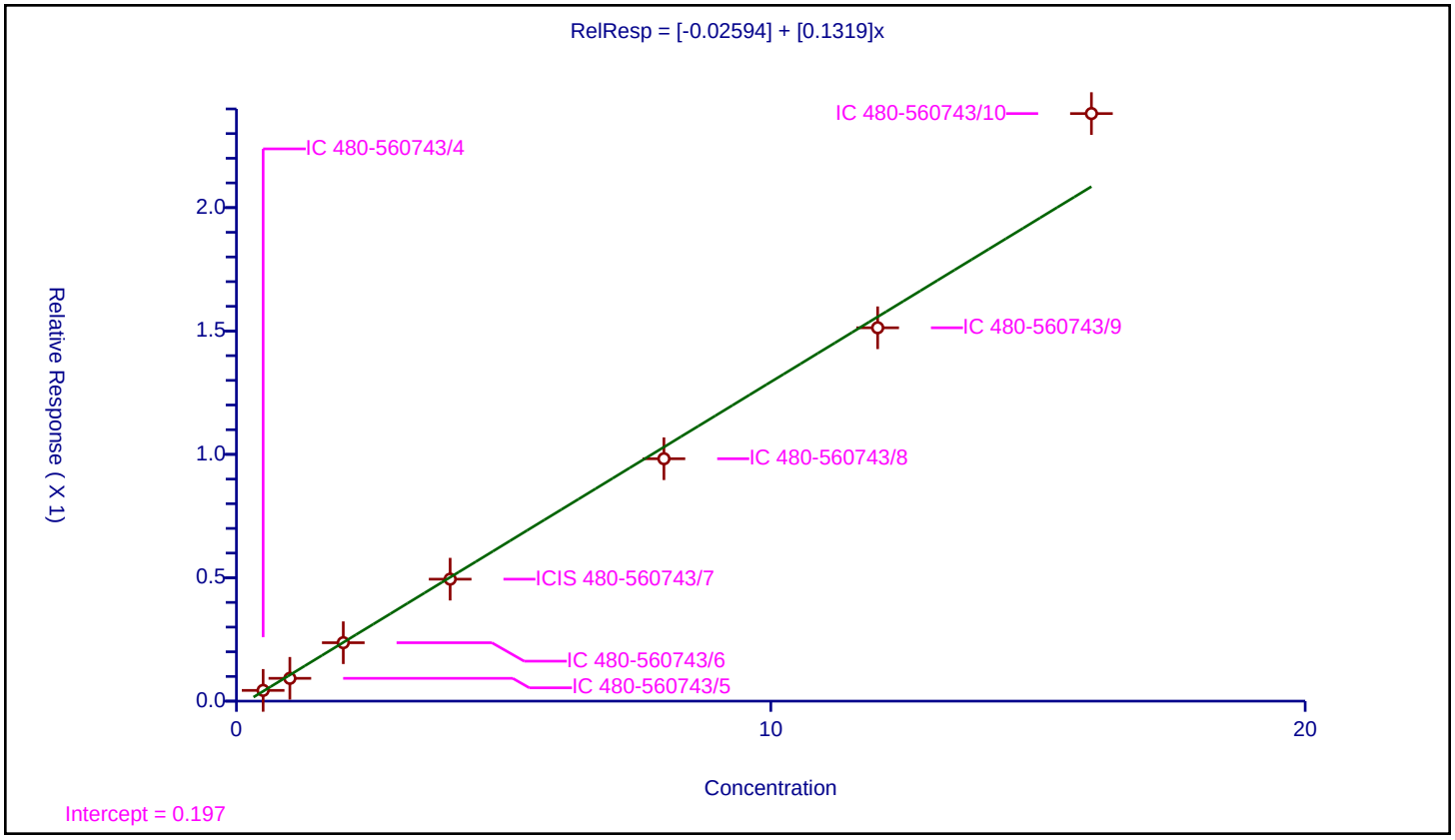
Curve Coefficients

Intercept:	-0.02594
Slope:	0.1319

Error Coefficients

Standard Error:	321000
Relative Standard Error:	8.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.043596	4.0	886695.0	0.087191	Y
2	IC 480-560743/5	1.0	0.092399	4.0	890178.0	0.092399	Y
3	IC 480-560743/6	2.0	0.236906	4.0	955095.0	0.118453	Y
4	ICIS 480-560743/7	4.0	0.494388	4.0	1123441.0	0.123597	Y
5	IC 480-560743/8	8.0	0.98237	4.0	943860.0	0.122796	Y
6	IC 480-560743/9	12.0	1.513157	4.0	1045745.0	0.126096	Y
7	IC 480-560743/10	16.0	2.381112	4.0	891034.0	0.14882	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

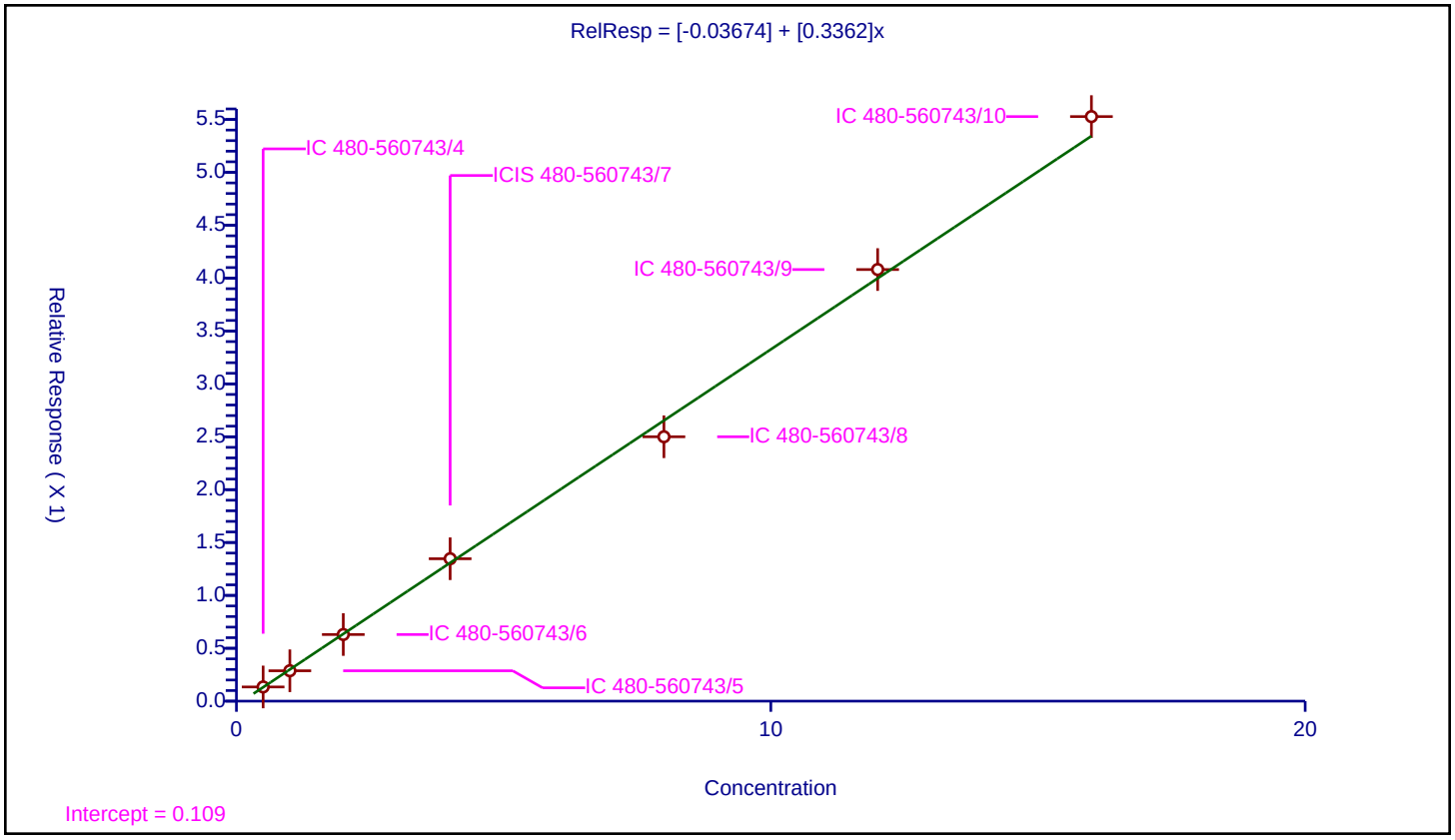
Curve Coefficients

Intercept:	-0.03674
Slope:	0.3362

Error Coefficients

Standard Error:	447000
Relative Standard Error:	3.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.134441	4.0	483244.0	0.268883	Y
2	IC 480-560743/5	1.0	0.287401	4.0	474960.0	0.287401	Y
3	IC 480-560743/6	2.0	0.630074	4.0	515876.0	0.315037	Y
4	ICIS 480-560743/7	4.0	1.346645	4.0	582841.0	0.336661	Y
5	IC 480-560743/8	8.0	2.499791	4.0	514835.0	0.312474	Y
6	IC 480-560743/9	12.0	4.081079	4.0	541150.0	0.34009	Y
7	IC 480-560743/10	16.0	5.527316	4.0	533760.0	0.345457	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

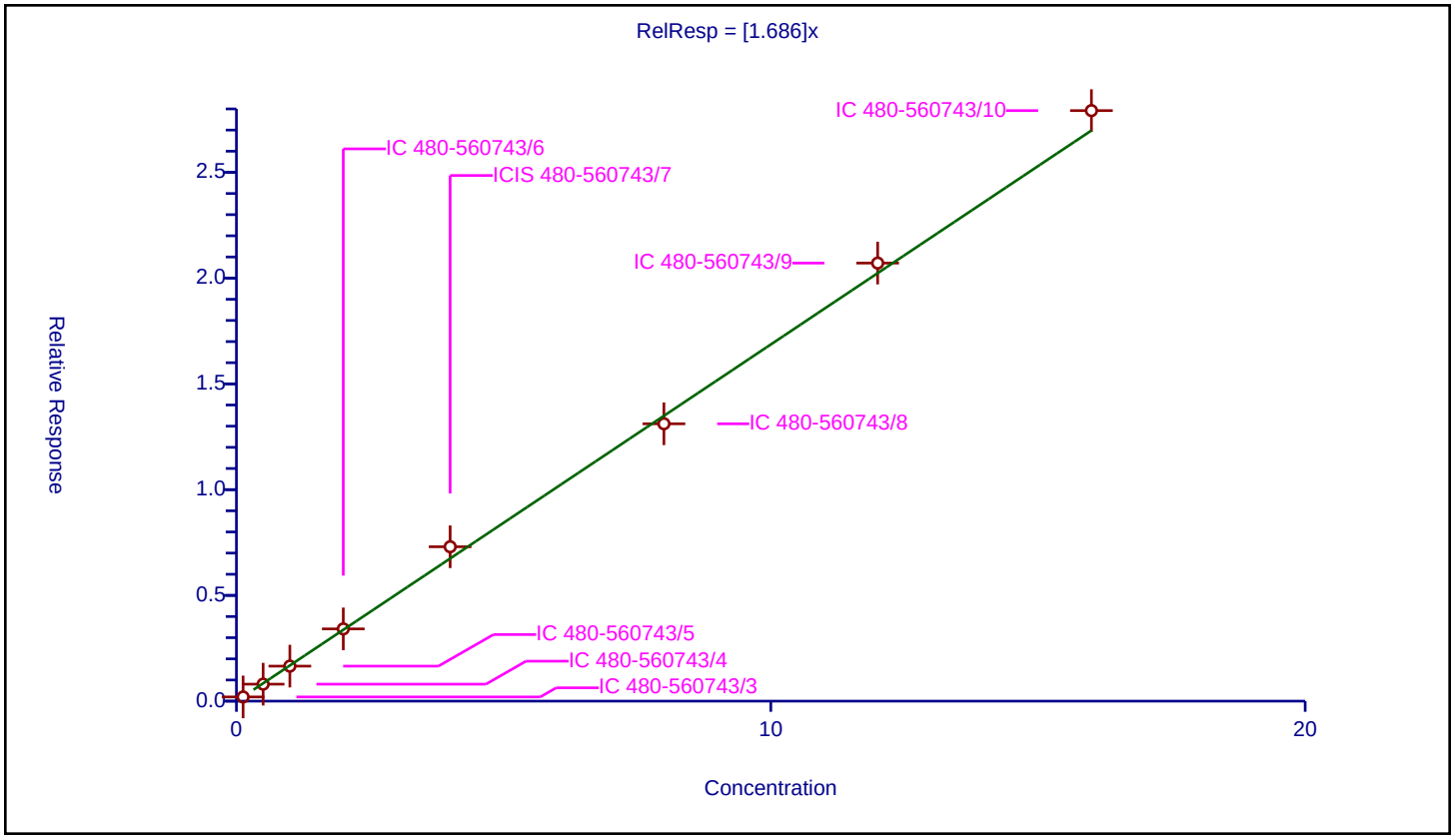
Curve Coefficients

Intercept:	0
Slope:	1.686

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	4.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.197908	4.0	482225.0	1.583261	Y
2	IC 480-560743/4	0.5	0.804521	4.0	483244.0	1.609042	Y
3	IC 480-560743/5	1.0	1.655424	4.0	474960.0	1.655424	Y
4	IC 480-560743/6	2.0	3.415425	4.0	515876.0	1.707713	Y
5	ICIS 480-560743/7	4.0	7.298642	4.0	582841.0	1.824661	Y
6	IC 480-560743/8	8.0	13.114073	4.0	514835.0	1.639259	Y
7	IC 480-560743/9	12.0	20.71096	4.0	541150.0	1.725913	Y
8	IC 480-560743/10	16.0	27.918735	4.0	533760.0	1.744921	Y



Calibration / 3-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

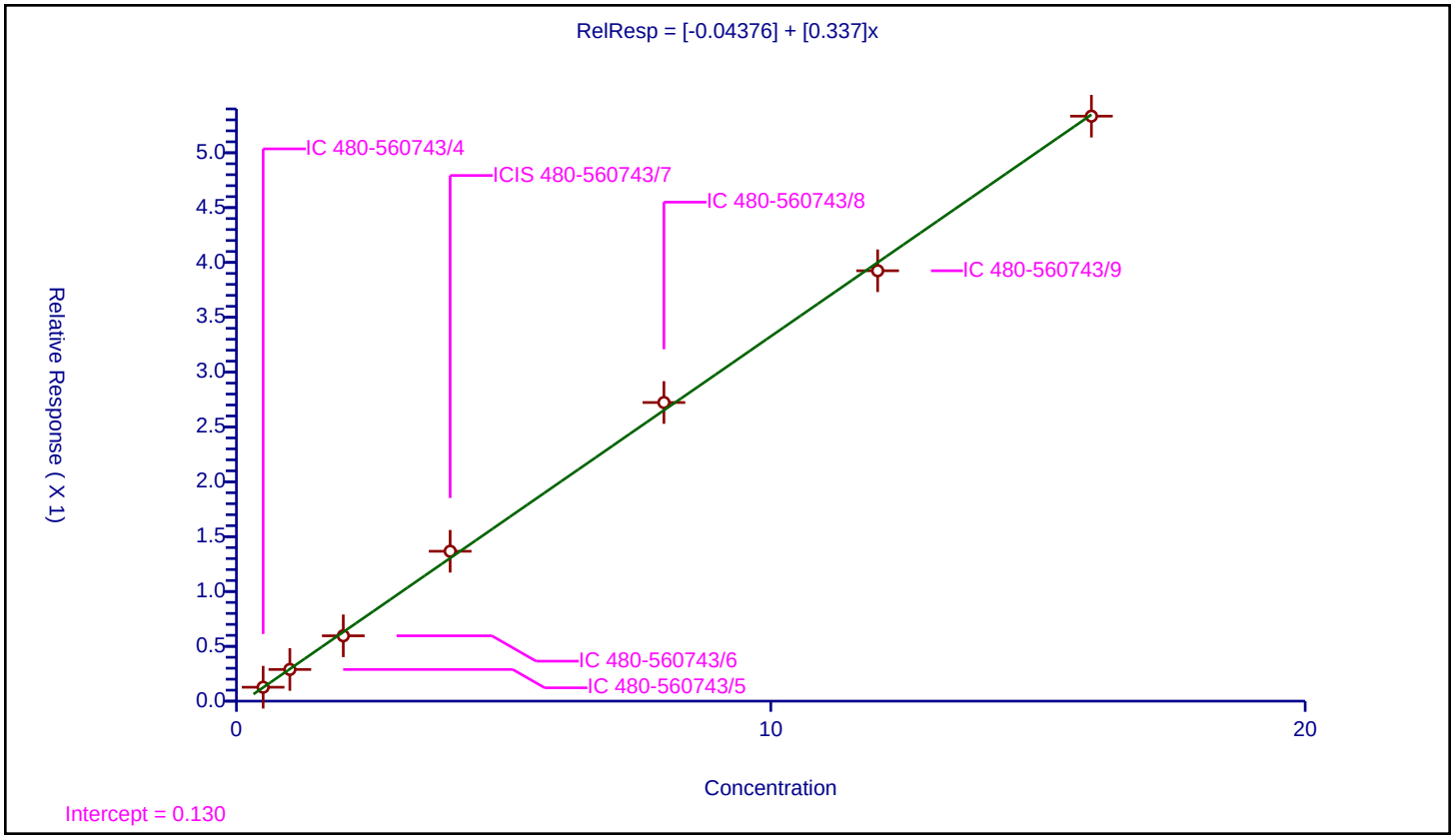
Curve Coefficients

Intercept:	-0.04376
Slope:	0.337

Error Coefficients

Standard Error:	438000
Relative Standard Error:	3.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.126876	4.0	483244.0	0.253752	Y
2	IC 480-560743/5	1.0	0.288807	4.0	474960.0	0.288807	Y
3	IC 480-560743/6	2.0	0.595756	4.0	515876.0	0.297878	Y
4	ICIS 480-560743/7	4.0	1.366767	4.0	582841.0	0.341692	Y
5	IC 480-560743/8	8.0	2.722923	4.0	514835.0	0.340365	Y
6	IC 480-560743/9	12.0	3.924413	4.0	541150.0	0.327034	Y
7	IC 480-560743/10	16.0	5.333738	4.0	533760.0	0.333359	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

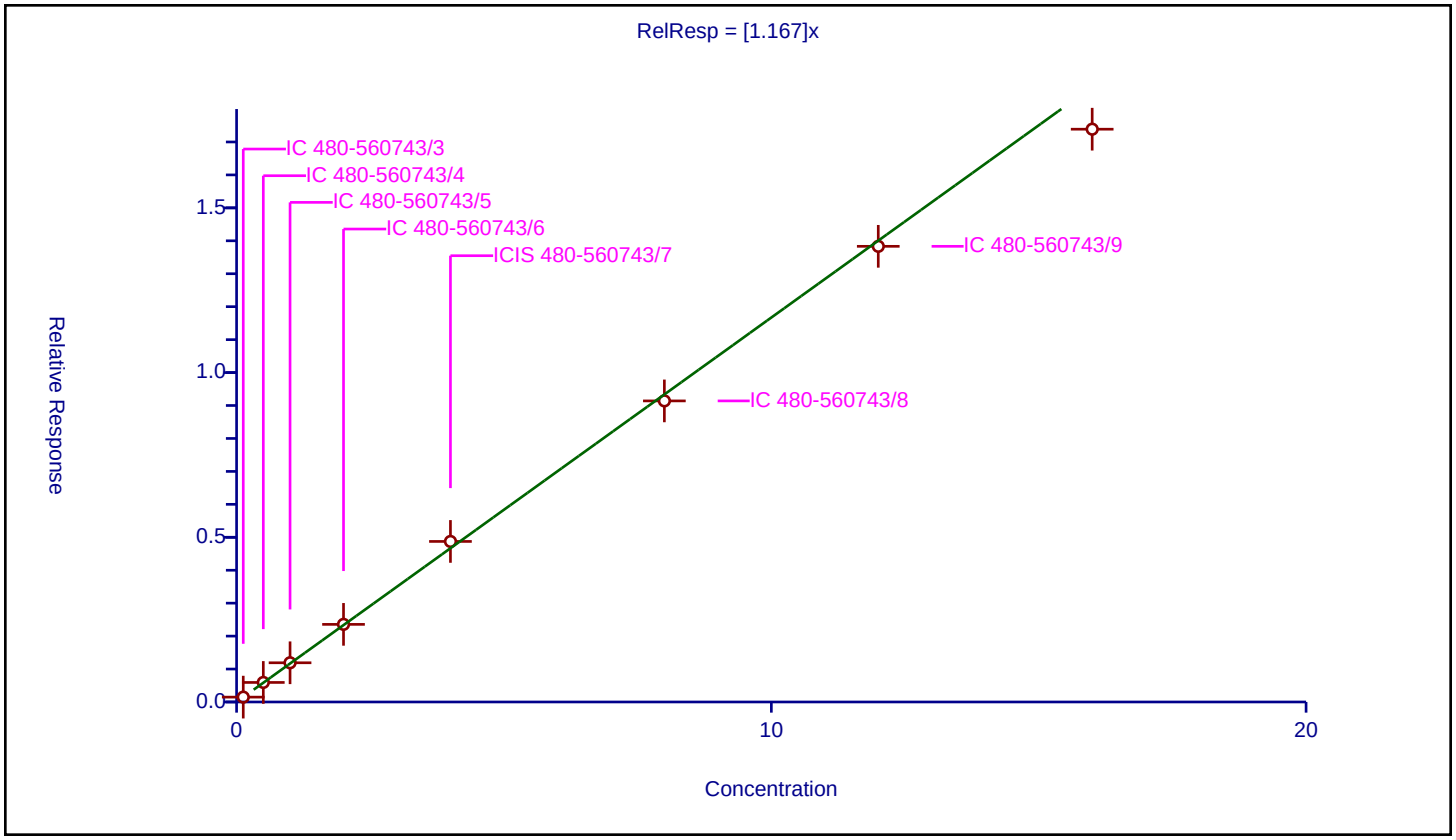
Curve Coefficients

Intercept:	0
Slope:	1.167

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	3.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.147442	4.0	482225.0	1.179532	Y
2	IC 480-560743/4	0.5	0.593903	4.0	483244.0	1.187806	Y
3	IC 480-560743/5	1.0	1.190424	4.0	474960.0	1.190424	Y
4	IC 480-560743/6	2.0	2.356497	4.0	515876.0	1.178248	Y
5	ICIS 480-560743/7	4.0	4.873089	4.0	582841.0	1.218272	Y
6	IC 480-560743/8	8.0	9.140047	4.0	514835.0	1.142506	Y
7	IC 480-560743/9	12.0	13.83184	4.0	541150.0	1.152653	Y
8	IC 480-560743/10	16.0	17.387897	4.0	533760.0	1.086744	Y



Calibration / 2,4-Dinitrophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

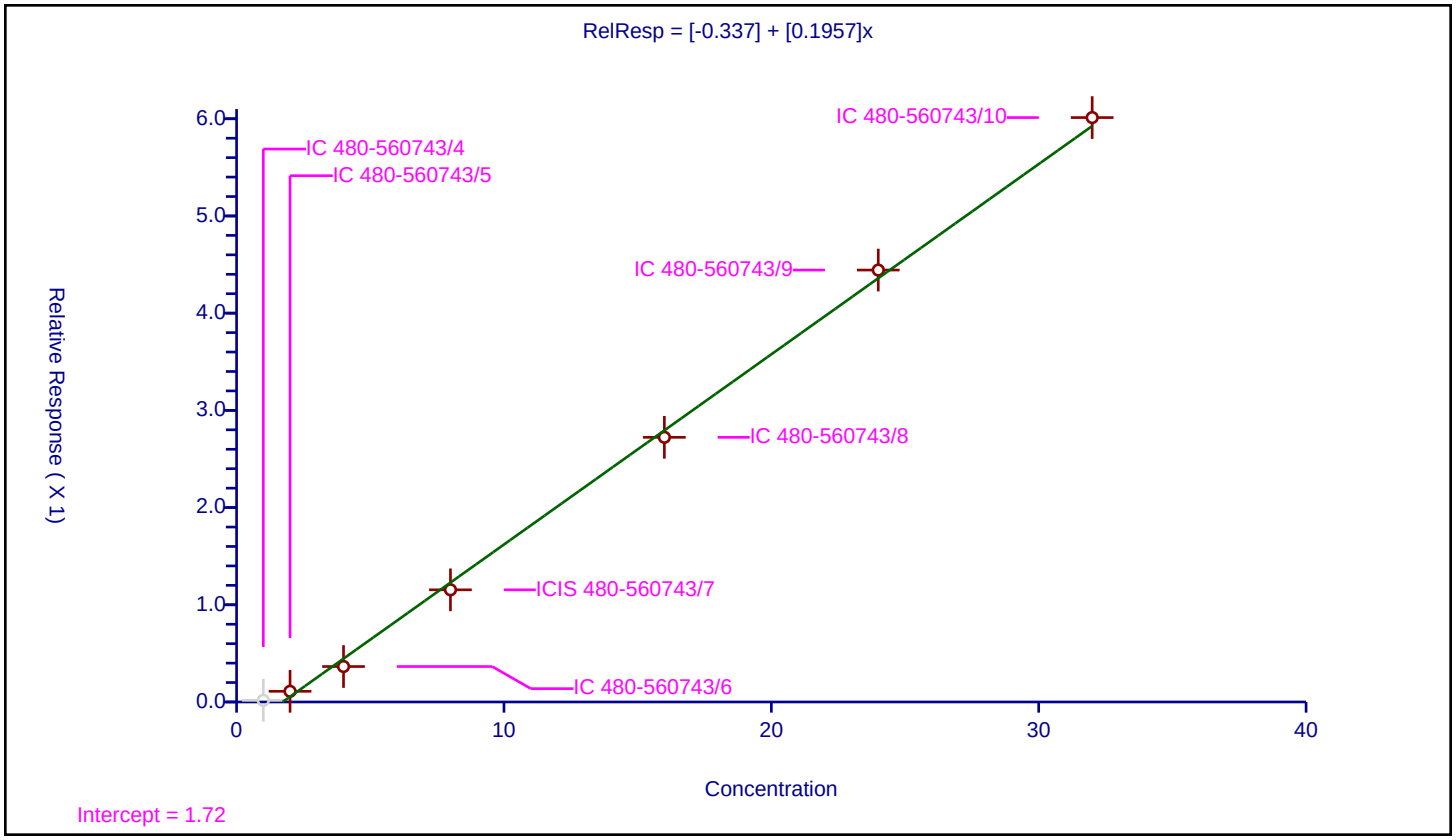
Curve Coefficients

Intercept:	-0.337
Slope:	0.1957

Error Coefficients

Standard Error:	538000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.016969	4.0	483244.0	0.016969	N
2	IC 480-560743/5	2.0	0.109778	4.0	474960.0	0.054889	Y
3	IC 480-560743/6	4.0	0.36501	4.0	515876.0	0.091253	Y
4	ICIS 480-560743/7	8.0	1.154051	4.0	582841.0	0.144256	Y
5	IC 480-560743/8	16.0	2.722822	4.0	514835.0	0.170176	Y
6	IC 480-560743/9	24.0	4.44333	4.0	541150.0	0.185139	Y
7	IC 480-560743/10	32.0	6.011938	4.0	533760.0	0.187873	Y



Calibration / 4-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

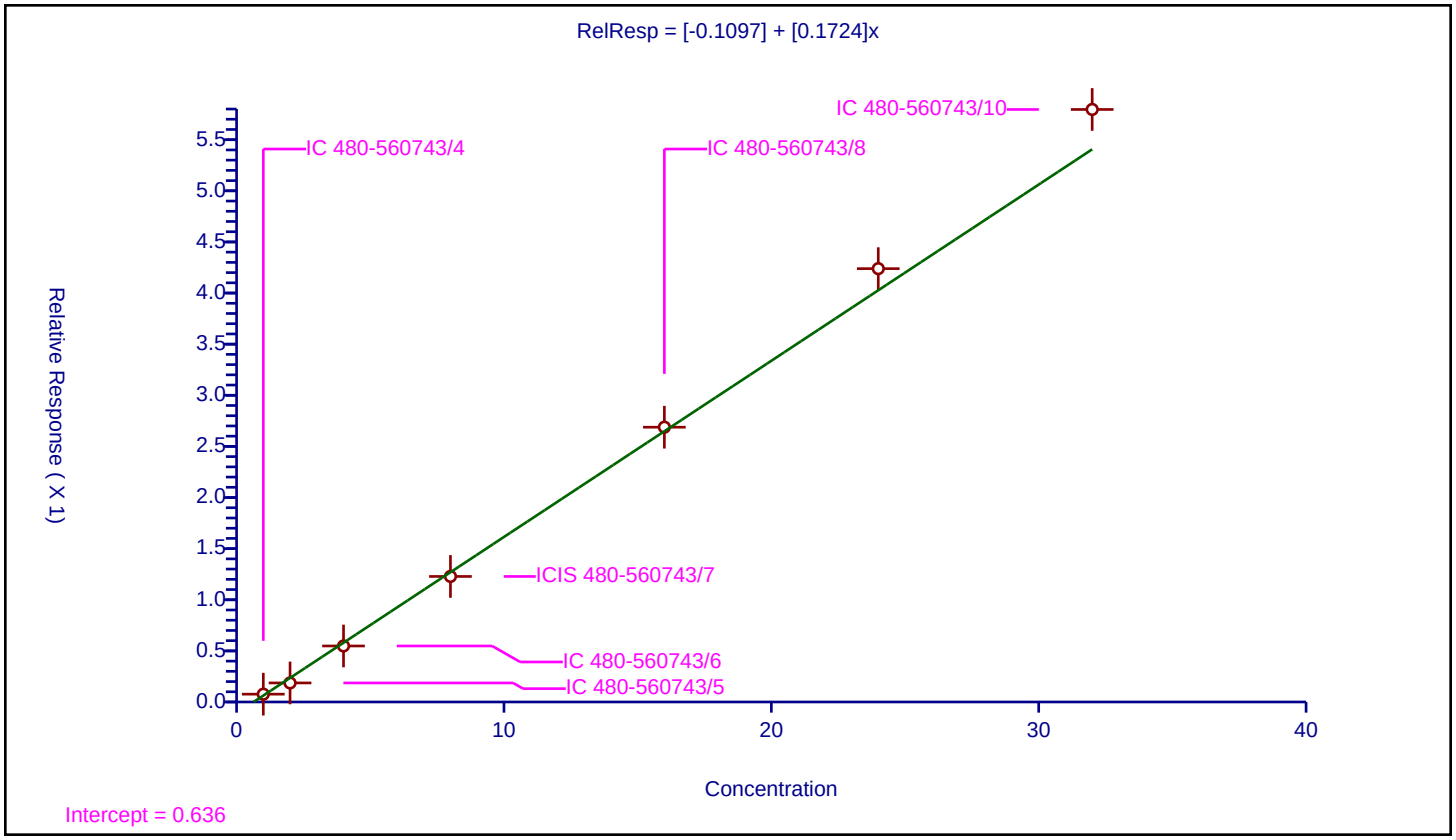
Curve Coefficients

Intercept:	-0.1097
Slope:	0.1724

Error Coefficients

Standard Error:	466000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.076549	4.0	483244.0	0.076549	Y
2	IC 480-560743/5	2.0	0.186475	4.0	474960.0	0.093237	Y
3	IC 480-560743/6	4.0	0.547915	4.0	515876.0	0.136979	Y
4	ICIS 480-560743/7	8.0	1.228157	4.0	582841.0	0.15352	Y
5	IC 480-560743/8	16.0	2.687945	4.0	514835.0	0.167997	Y
6	IC 480-560743/9	24.0	4.238736	4.0	541150.0	0.176614	Y
7	IC 480-560743/10	32.0	5.795751	4.0	533760.0	0.181117	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

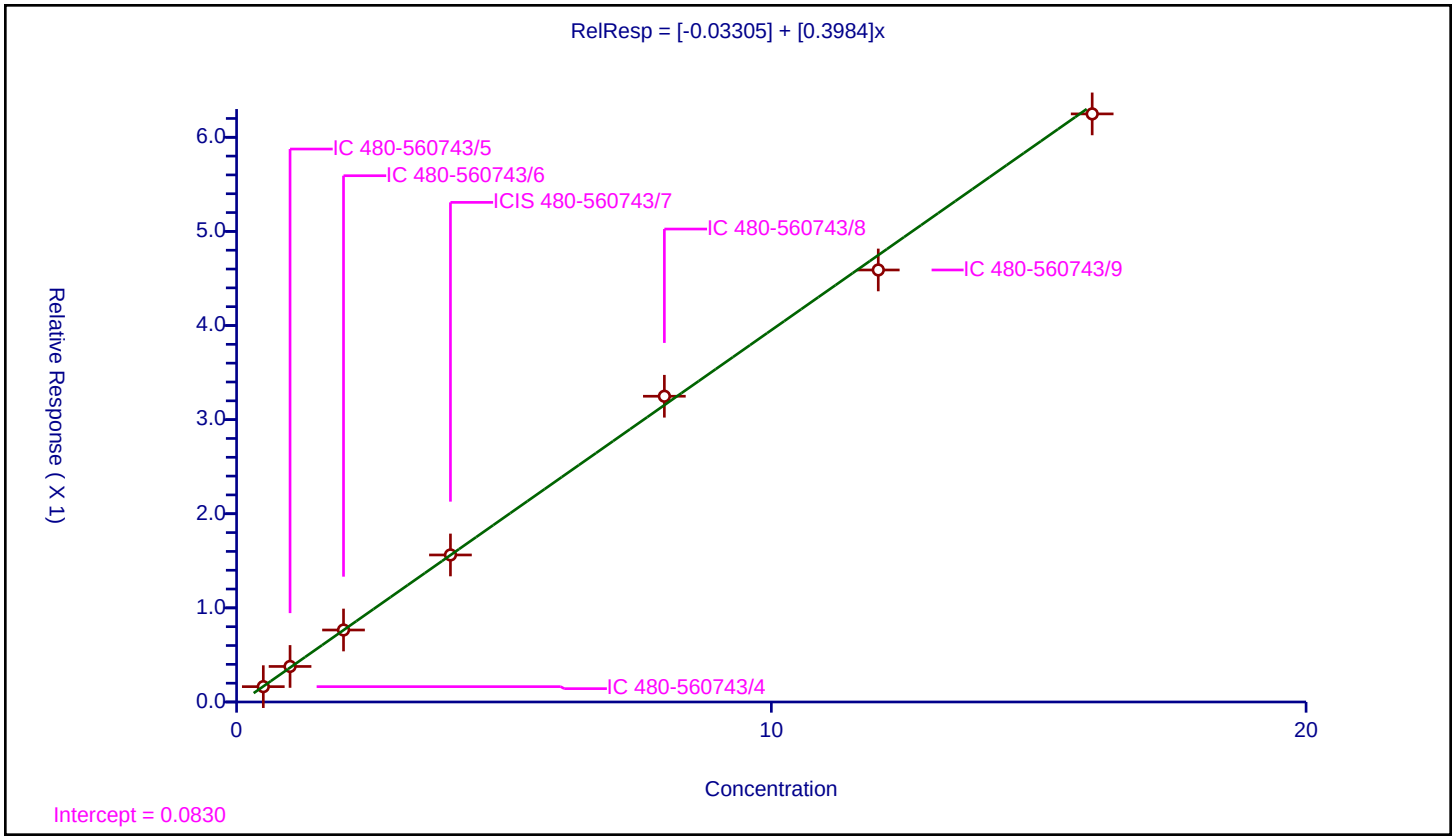
Curve Coefficients

Intercept:	-0.03305
Slope:	0.3984

Error Coefficients

Standard Error:	514000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.162916	4.0	483244.0	0.325831	Y
2	IC 480-560743/5	1.0	0.37775	4.0	474960.0	0.37775	Y
3	IC 480-560743/6	2.0	0.764804	4.0	515876.0	0.382402	Y
4	ICIS 480-560743/7	4.0	1.562478	4.0	582841.0	0.390619	Y
5	IC 480-560743/8	8.0	3.248482	4.0	514835.0	0.40606	Y
6	IC 480-560743/9	12.0	4.590269	4.0	541150.0	0.382522	Y
7	IC 480-560743/10	16.0	6.248156	4.0	533760.0	0.39051	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

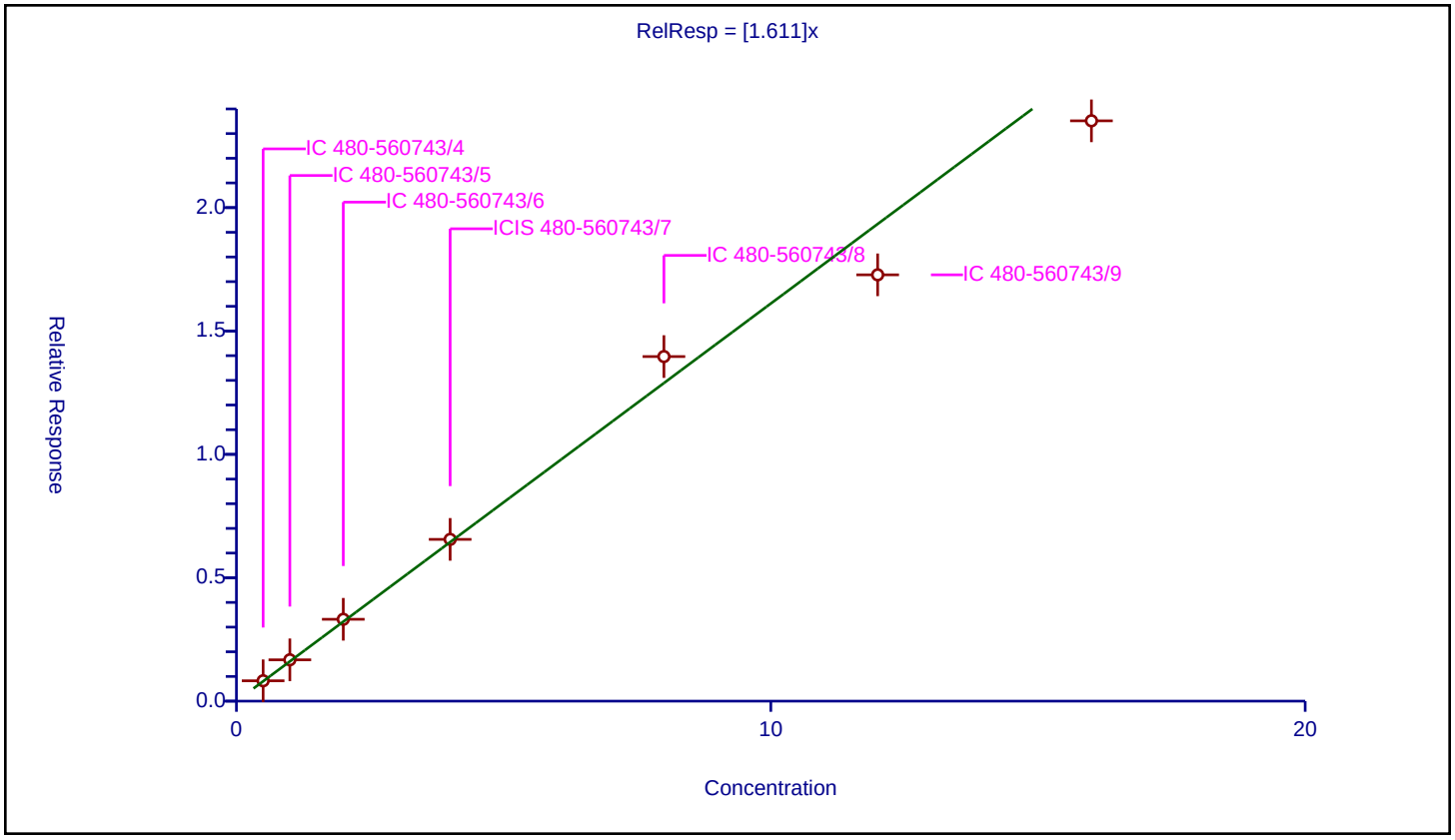
Curve Coefficients

Intercept:	0
Slope:	1.611

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	7.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.825463	4.0	483244.0	1.650926	Y
2	IC 480-560743/5	1.0	1.675459	4.0	474960.0	1.675459	Y
3	IC 480-560743/6	2.0	3.317239	4.0	515876.0	1.65862	Y
4	ICIS 480-560743/7	4.0	6.555435	4.0	582841.0	1.638859	Y
5	IC 480-560743/8	8.0	13.963627	4.0	514835.0	1.745453	Y
6	IC 480-560743/9	12.0	17.275543	4.0	541150.0	1.439629	Y
7	IC 480-560743/10	16.0	23.517903	4.0	533760.0	1.469869	Y



Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

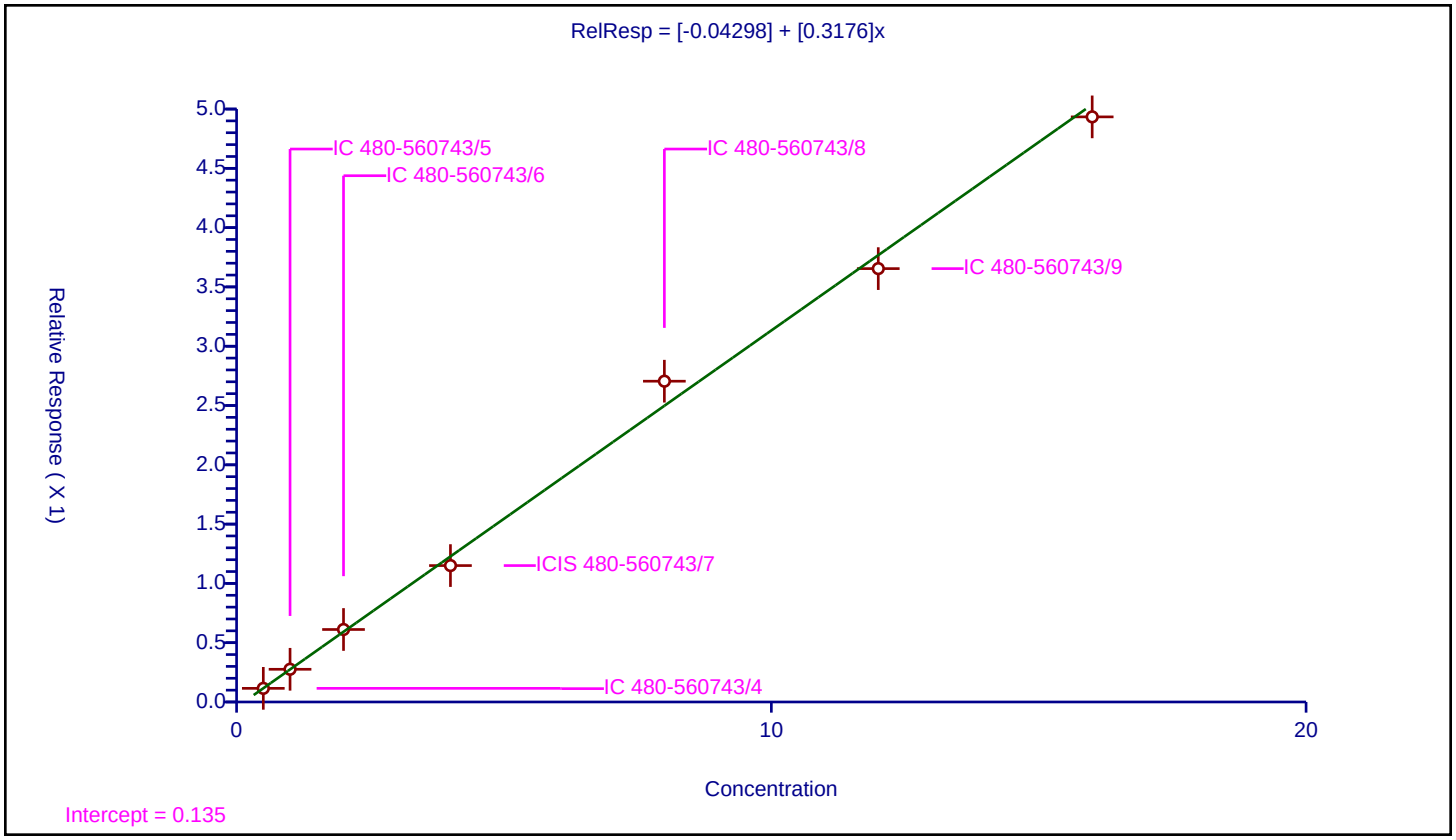
Curve Coefficients

Intercept:	-0.04298
Slope:	0.3176

Error Coefficients

Standard Error:	409000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.114948	4.0	483244.0	0.229896	Y
2	IC 480-560743/5	1.0	0.275947	4.0	474960.0	0.275947	Y
3	IC 480-560743/6	2.0	0.611302	4.0	515876.0	0.305651	Y
4	ICIS 480-560743/7	4.0	1.150331	4.0	582841.0	0.287583	Y
5	IC 480-560743/8	8.0	2.705061	4.0	514835.0	0.338133	Y
6	IC 480-560743/9	12.0	3.654447	4.0	541150.0	0.304537	Y
7	IC 480-560743/10	16.0	4.933858	4.0	533760.0	0.308366	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

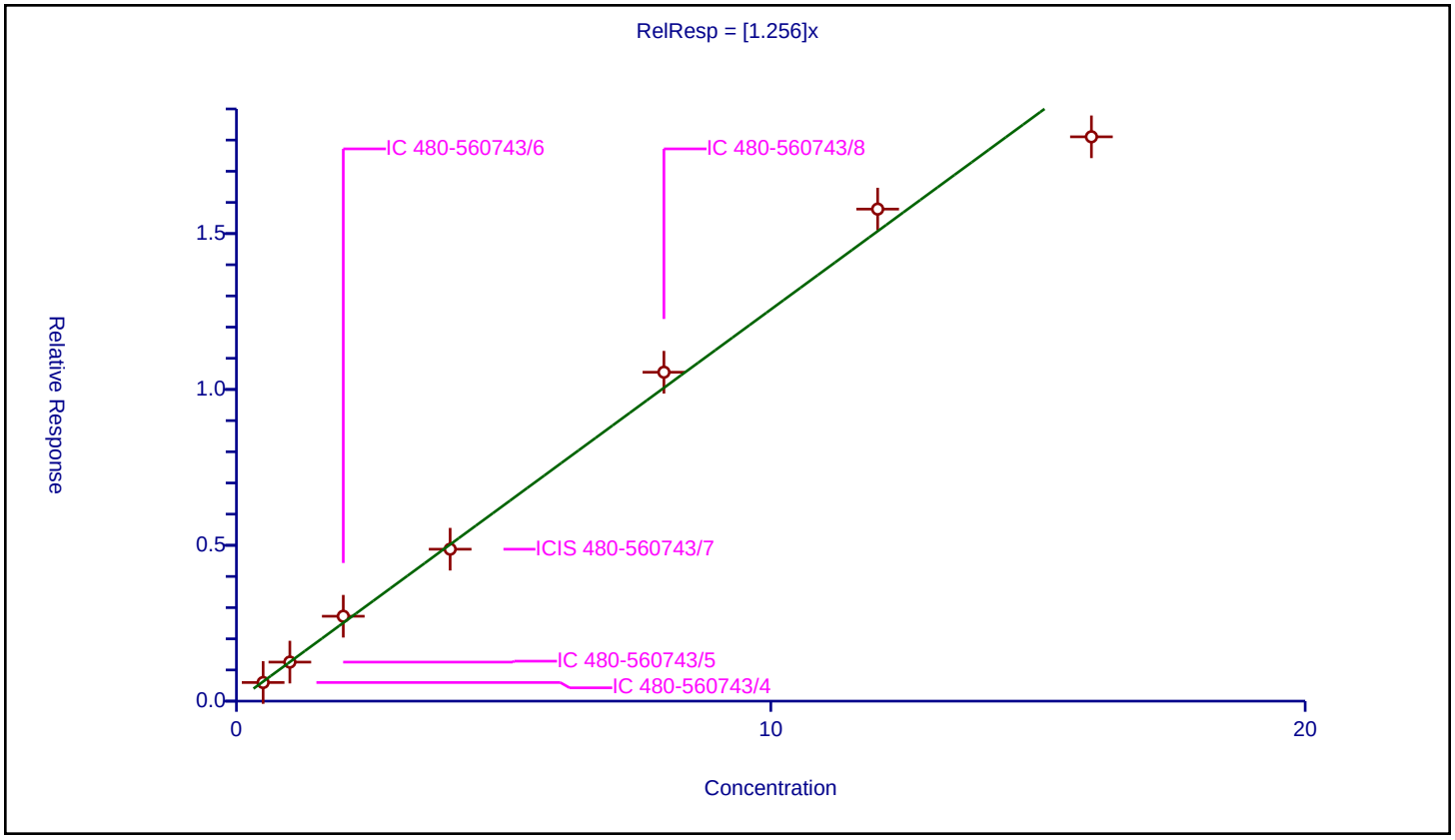
Curve Coefficients

Intercept:	0
Slope:	1.256

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	6.4
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.597429	4.0	483244.0	1.194858	Y
2	IC 480-560743/5	1.0	1.253386	4.0	474960.0	1.253386	Y
3	IC 480-560743/6	2.0	2.723453	4.0	515876.0	1.361726	Y
4	ICIS 480-560743/7	4.0	4.875155	4.0	582841.0	1.218789	Y
5	IC 480-560743/8	8.0	10.55309	4.0	514835.0	1.319136	Y
6	IC 480-560743/9	12.0	15.785863	4.0	541150.0	1.315489	Y
7	IC 480-560743/10	16.0	18.105013	4.0	533760.0	1.131563	Y



Calibration / Hexadecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

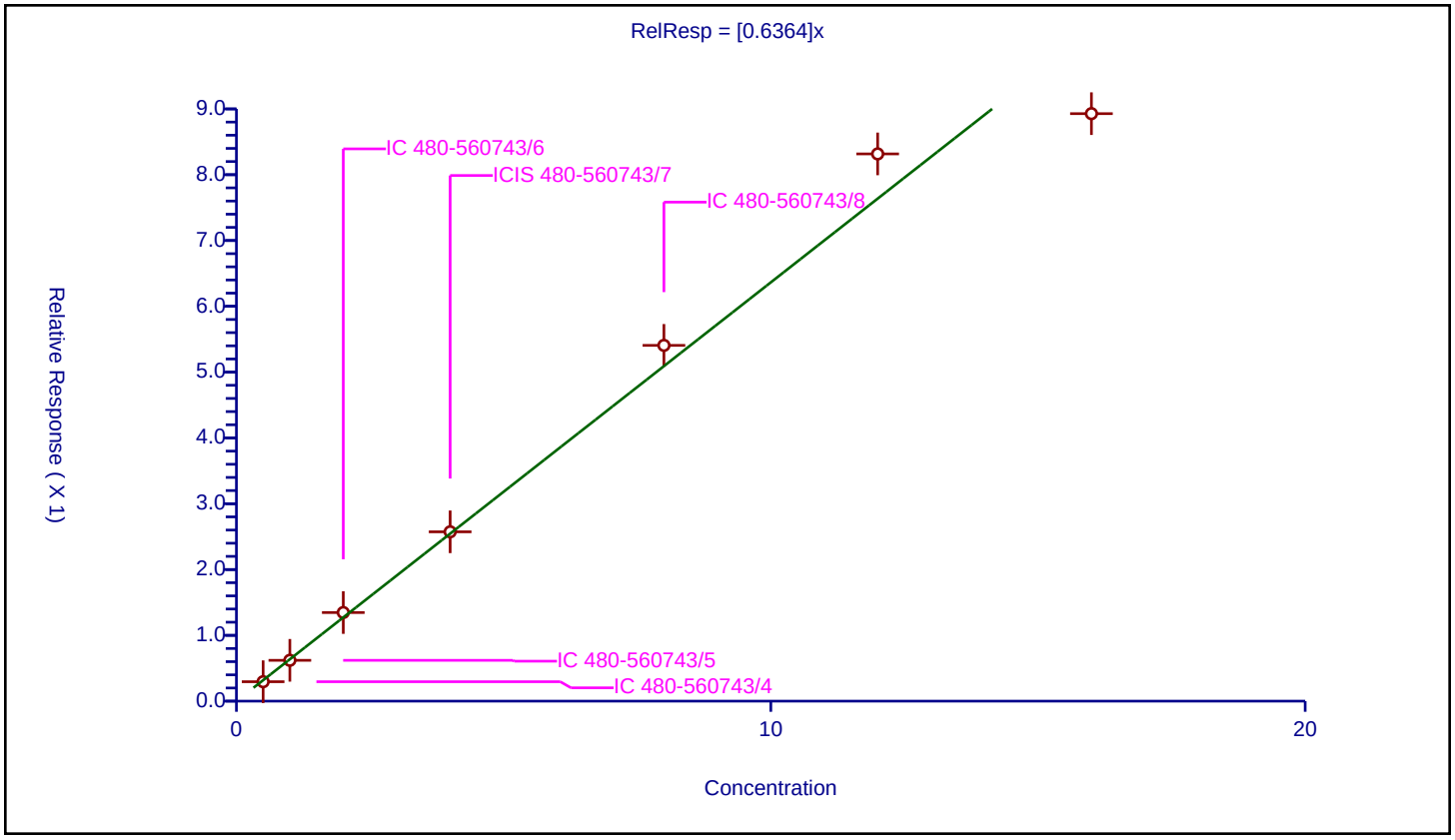
Curve Coefficients

Intercept:	0
Slope:	0.6364

Error Coefficients

Standard Error:	747000
Relative Standard Error:	7.8
Correlation Coefficient:	0.974
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.295296	4.0	483244.0	0.590592	Y
2	IC 480-560743/5	1.0	0.620532	4.0	474960.0	0.620532	Y
3	IC 480-560743/6	2.0	1.346603	4.0	515876.0	0.673301	Y
4	ICIS 480-560743/7	4.0	2.573292	4.0	582841.0	0.643323	Y
5	IC 480-560743/8	8.0	5.406478	4.0	514835.0	0.67581	Y
6	IC 480-560743/9	12.0	8.316082	4.0	541150.0	0.693007	Y
7	IC 480-560743/10	16.0	8.927773	4.0	533760.0	0.557986	Y



Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

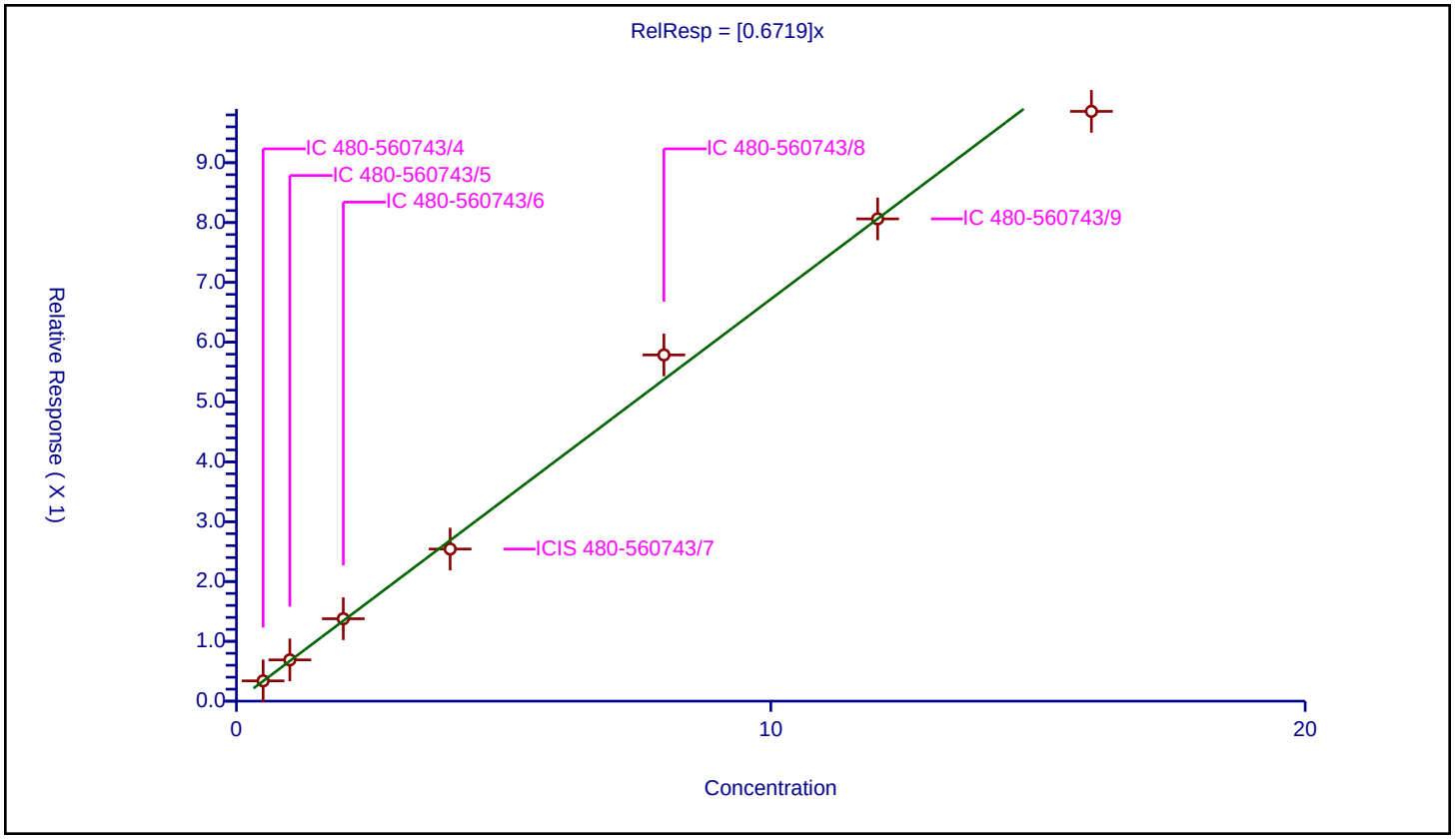
Curve Coefficients

Intercept:	0
Slope:	0.6719

Error Coefficients

Standard Error:	780000
Relative Standard Error:	5.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.338876	4.0	483244.0	0.677753	Y
2	IC 480-560743/5	1.0	0.689877	4.0	474960.0	0.689877	Y
3	IC 480-560743/6	2.0	1.37744	4.0	515876.0	0.68872	Y
4	ICIS 480-560743/7	4.0	2.543006	4.0	582841.0	0.635751	Y
5	IC 480-560743/8	8.0	5.787112	4.0	514835.0	0.723389	Y
6	IC 480-560743/9	12.0	8.061905	4.0	541150.0	0.671825	Y
7	IC 480-560743/10	16.0	9.858716	4.0	533760.0	0.61617	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

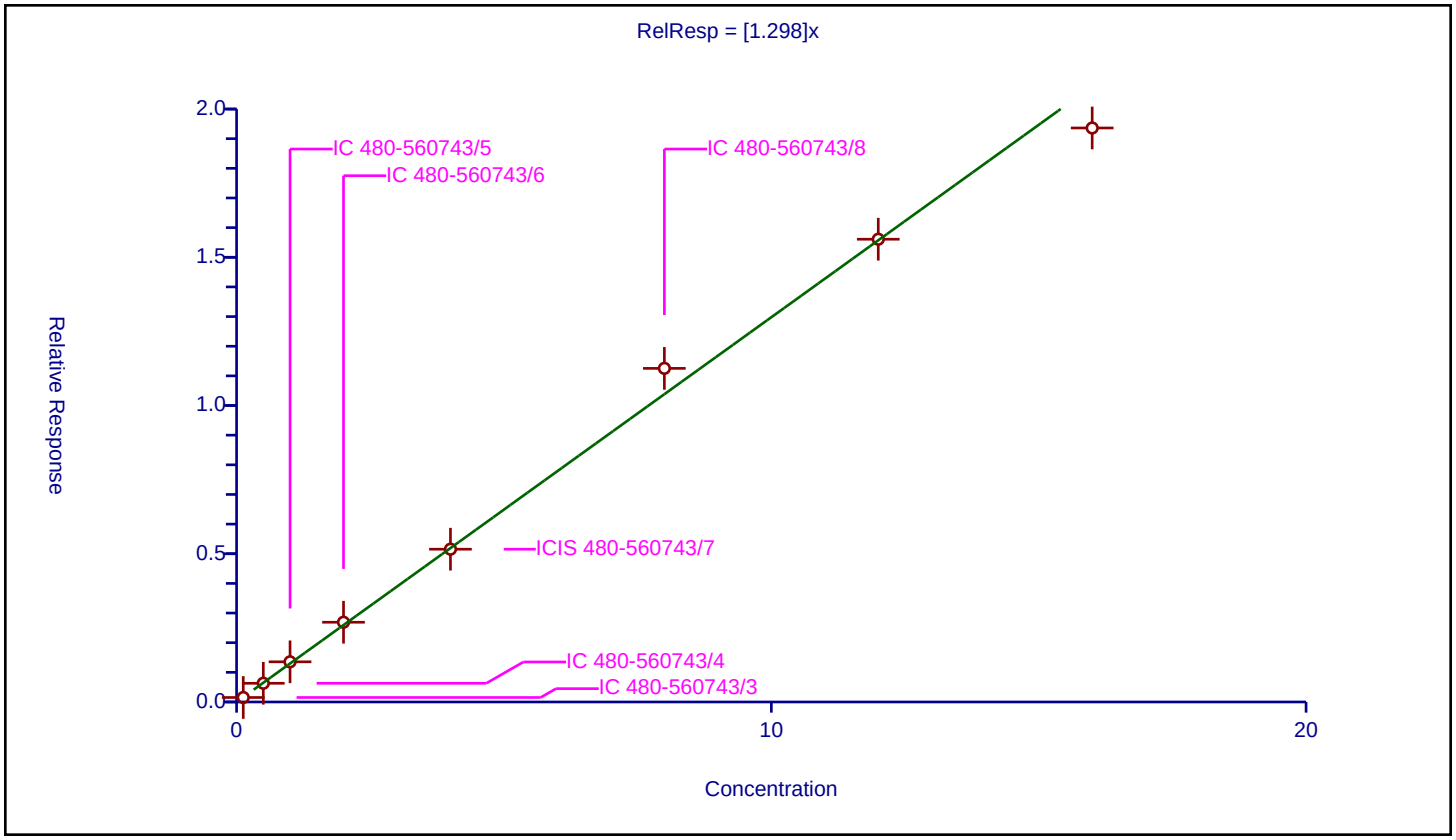
Curve Coefficients

Intercept:	0
Slope:	1.298

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	5.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.151514	4.0	482225.0	1.212115	Y
2	IC 480-560743/4	0.5	0.631995	4.0	483244.0	1.263991	Y
3	IC 480-560743/5	1.0	1.354859	4.0	474960.0	1.354859	Y
4	IC 480-560743/6	2.0	2.690251	4.0	515876.0	1.345126	Y
5	ICIS 480-560743/7	4.0	5.153749	4.0	582841.0	1.288437	Y
6	IC 480-560743/8	8.0	11.253369	4.0	514835.0	1.406671	Y
7	IC 480-560743/9	12.0	15.608279	4.0	541150.0	1.30069	Y
8	IC 480-560743/10	16.0	19.360424	4.0	533760.0	1.210027	Y



Calibration / 4-Nitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

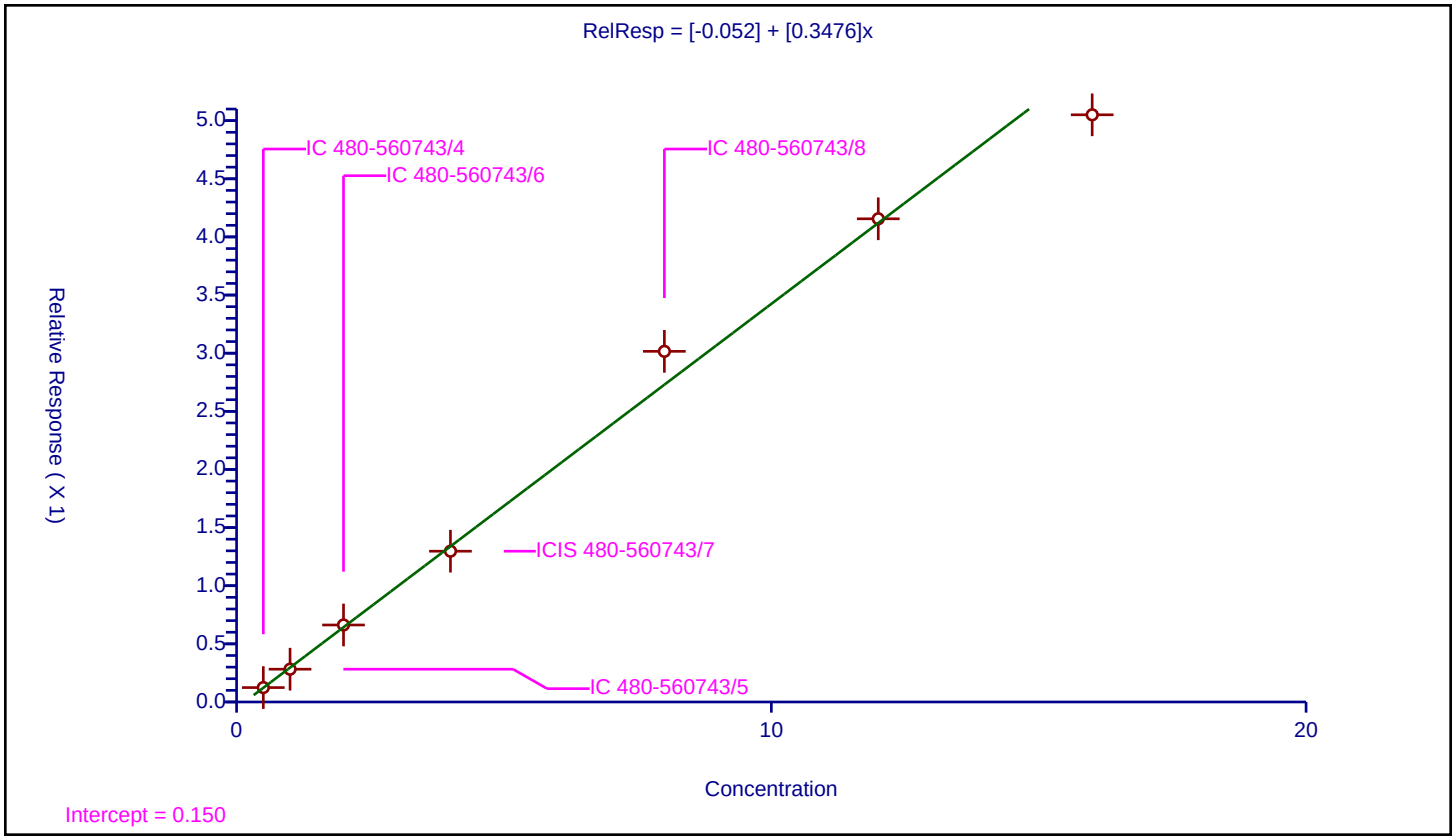
Curve Coefficients

Intercept:	-0.052
Slope:	0.3476

Error Coefficients

Standard Error:	439000
Relative Standard Error:	6.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.123946	4.0	483244.0	0.247891	Y
2	IC 480-560743/5	1.0	0.281952	4.0	474960.0	0.281952	Y
3	IC 480-560743/6	2.0	0.662454	4.0	515876.0	0.331227	Y
4	ICIS 480-560743/7	4.0	1.297191	4.0	582841.0	0.324298	Y
5	IC 480-560743/8	8.0	3.015824	4.0	514835.0	0.376978	Y
6	IC 480-560743/9	12.0	4.155898	4.0	541150.0	0.346325	Y
7	IC 480-560743/10	16.0	5.050262	4.0	533760.0	0.315641	Y



Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

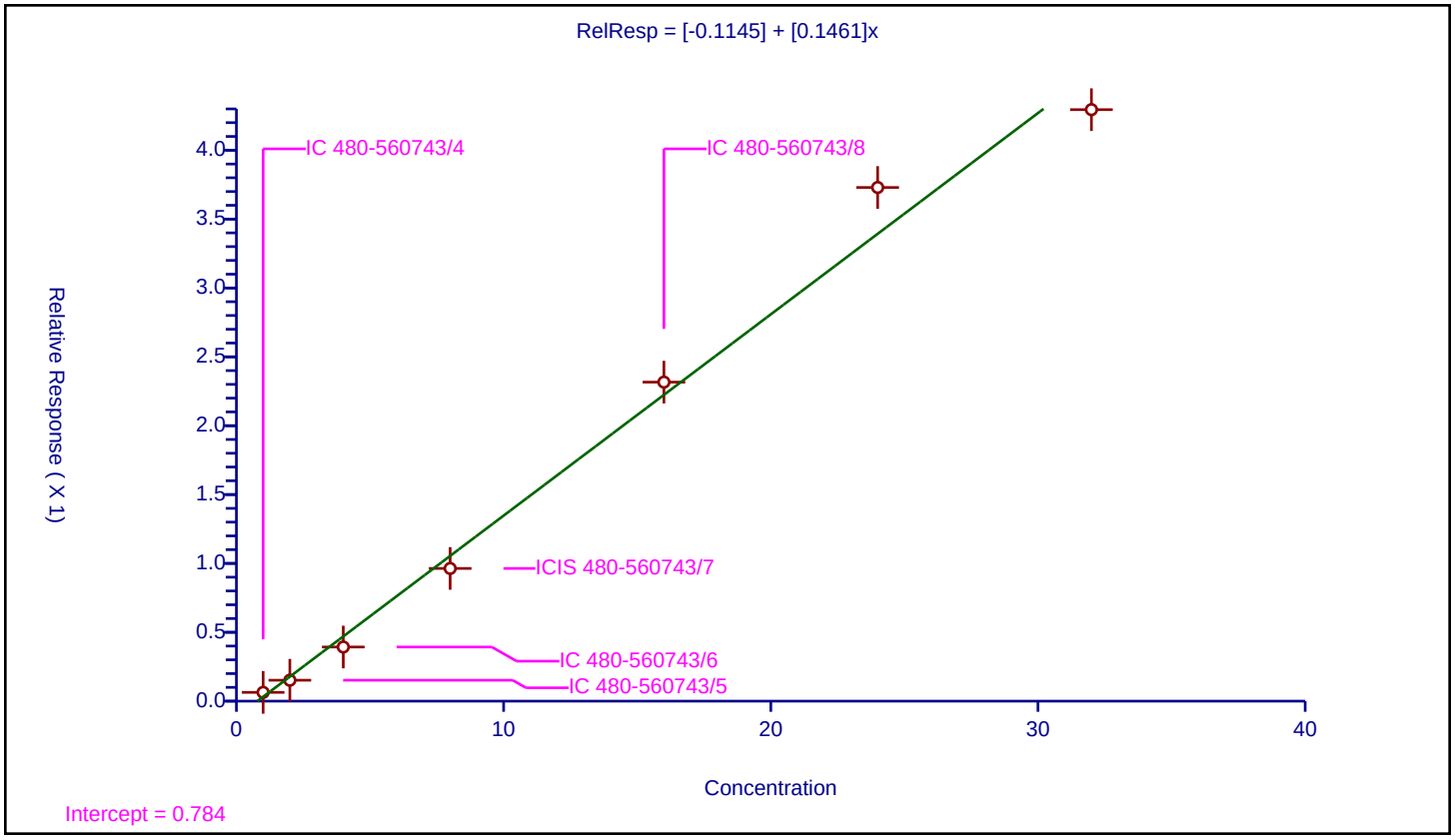
Curve Coefficients

Intercept:	-0.1145
Slope:	0.1461

Error Coefficients

Standard Error:	597000
Relative Standard Error:	13.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.063756	4.0	789951.0	0.063756	Y
2	IC 480-560743/5	2.0	0.151909	4.0	808798.0	0.075955	Y
3	IC 480-560743/6	4.0	0.393092	4.0	943566.0	0.098273	Y
4	ICIS 480-560743/7	8.0	0.96341	4.0	963909.0	0.120426	Y
5	IC 480-560743/8	16.0	2.316287	4.0	845914.0	0.144768	Y
6	IC 480-560743/9	24.0	3.729481	4.0	833611.0	0.155395	Y
7	IC 480-560743/10	32.0	4.294675	4.0	871483.0	0.134209	Y



Calibration / Diphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

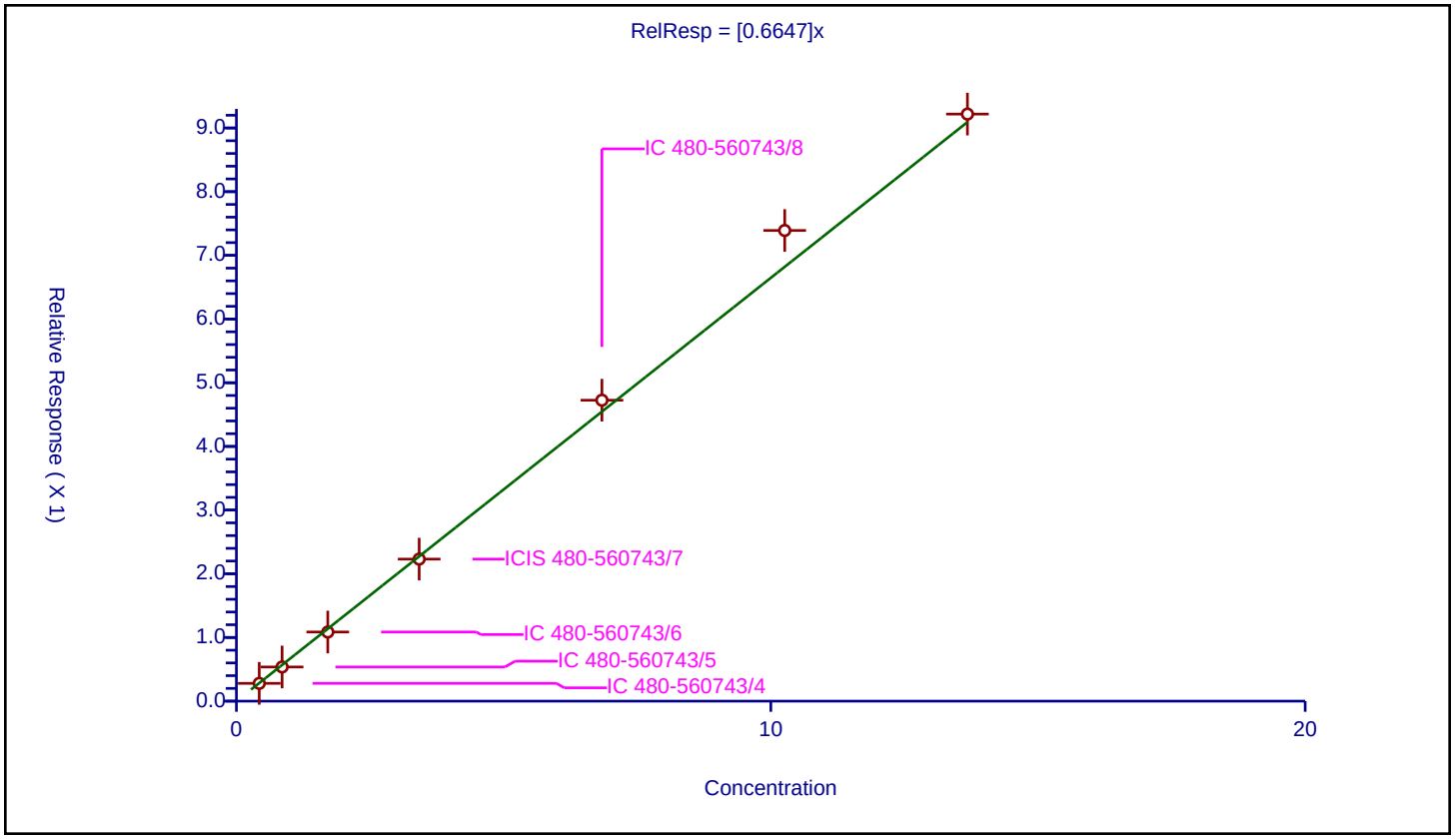
Curve Coefficients

Intercept:	0
Slope:	0.6647

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.4275	0.278989	4.0	789951.0	0.652607	Y
2	IC 480-560743/5	0.855	0.5369	4.0	808798.0	0.627954	Y
3	IC 480-560743/6	1.71	1.085546	4.0	943566.0	0.634822	Y
4	ICIS 480-560743/7	3.42	2.230812	4.0	963909.0	0.652284	Y
5	IC 480-560743/8	6.84	4.725473	4.0	845914.0	0.690859	Y
6	IC 480-560743/9	10.26	7.390641	4.0	833611.0	0.720335	Y
7	IC 480-560743/10	13.68	9.218516	4.0	871483.0	0.673868	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

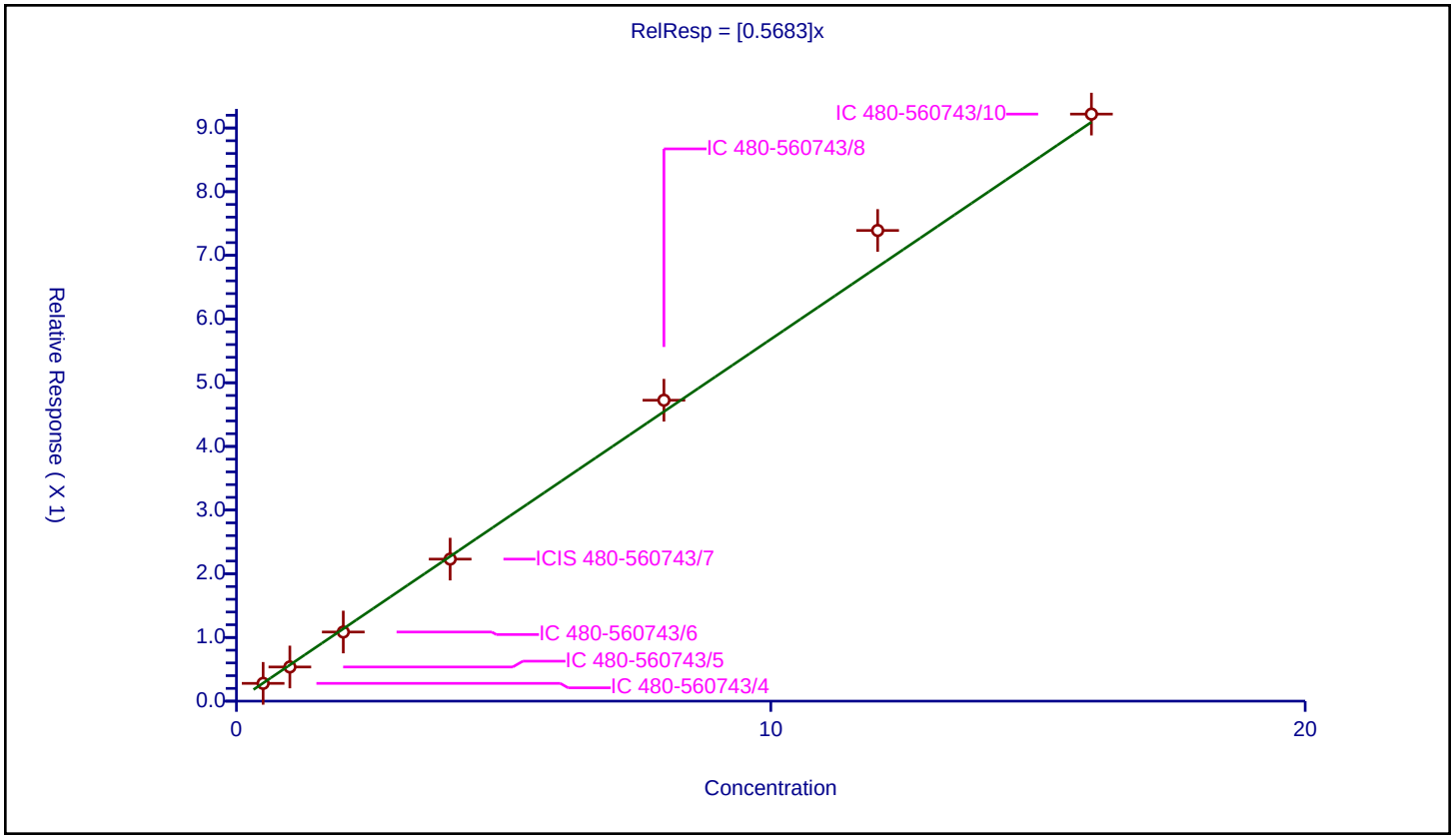
Curve Coefficients

Intercept:	0
Slope:	0.5683

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.278989	4.0	789951.0	0.557979	Y
2	IC 480-560743/5	1.0	0.5369	4.0	808798.0	0.5369	Y
3	IC 480-560743/6	2.0	1.085546	4.0	943566.0	0.542773	Y
4	ICIS 480-560743/7	4.0	2.230812	4.0	963909.0	0.557703	Y
5	IC 480-560743/8	8.0	4.725473	4.0	845914.0	0.590684	Y
6	IC 480-560743/9	12.0	7.390641	4.0	833611.0	0.615887	Y
7	IC 480-560743/10	16.0	9.218516	4.0	871483.0	0.576157	Y



Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

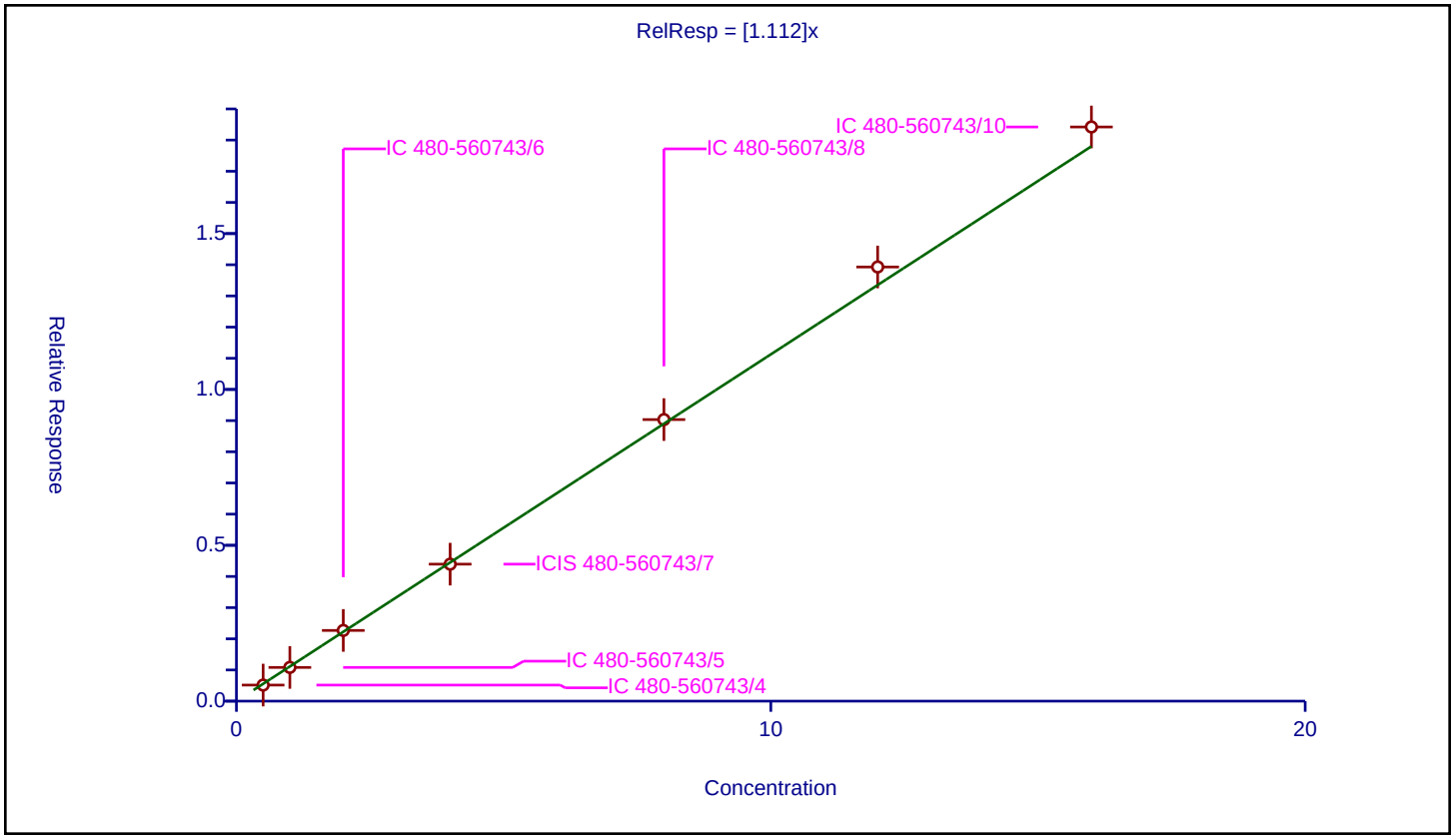
Curve Coefficients

Intercept:	0
Slope:	1.112

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.515268	4.0	483244.0	1.030535	Y
2	IC 480-560743/5	1.0	1.082559	4.0	474960.0	1.082559	Y
3	IC 480-560743/6	2.0	2.268274	4.0	515876.0	1.134137	Y
4	ICIS 480-560743/7	4.0	4.395182	4.0	582841.0	1.098795	Y
5	IC 480-560743/8	8.0	9.032642	4.0	514835.0	1.12908	Y
6	IC 480-560743/9	12.0	13.928937	4.0	541150.0	1.160745	Y
7	IC 480-560743/10	16.0	18.420541	4.0	533760.0	1.151284	Y



Calibration / Azobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

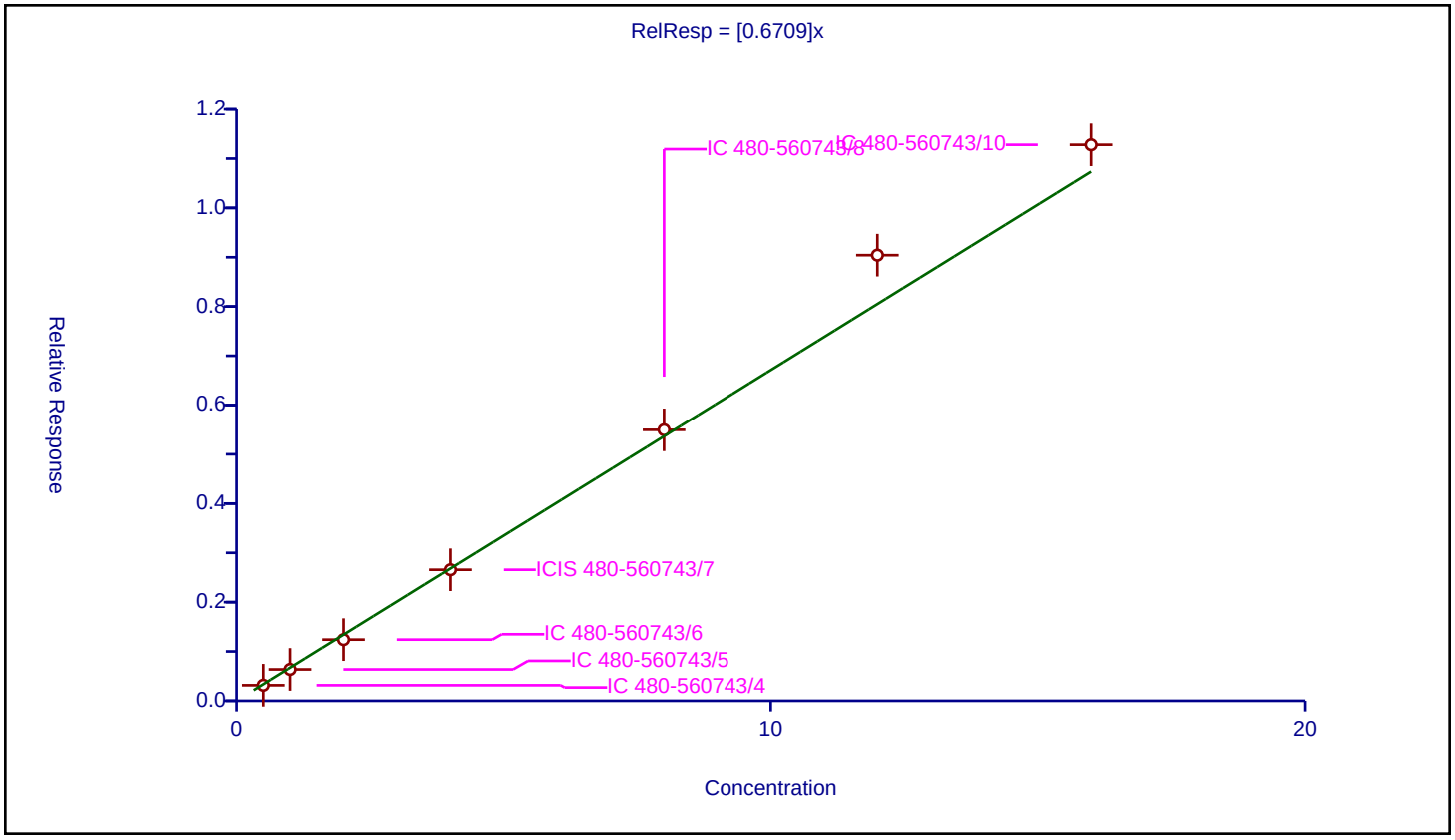
Curve Coefficients

Intercept:	0
Slope:	0.6709

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.315209	4.0	789951.0	0.630419	Y
2	IC 480-560743/5	1.0	0.635724	4.0	808798.0	0.635724	Y
3	IC 480-560743/6	2.0	1.240134	4.0	943566.0	0.620067	Y
4	ICIS 480-560743/7	4.0	2.657608	4.0	963909.0	0.664402	Y
5	IC 480-560743/8	8.0	5.497391	4.0	845914.0	0.687174	Y
6	IC 480-560743/9	12.0	9.04216	4.0	833611.0	0.753513	Y
7	IC 480-560743/10	16.0	11.279109	4.0	871483.0	0.704944	Y



Calibration / 2,4,6-Tribromophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

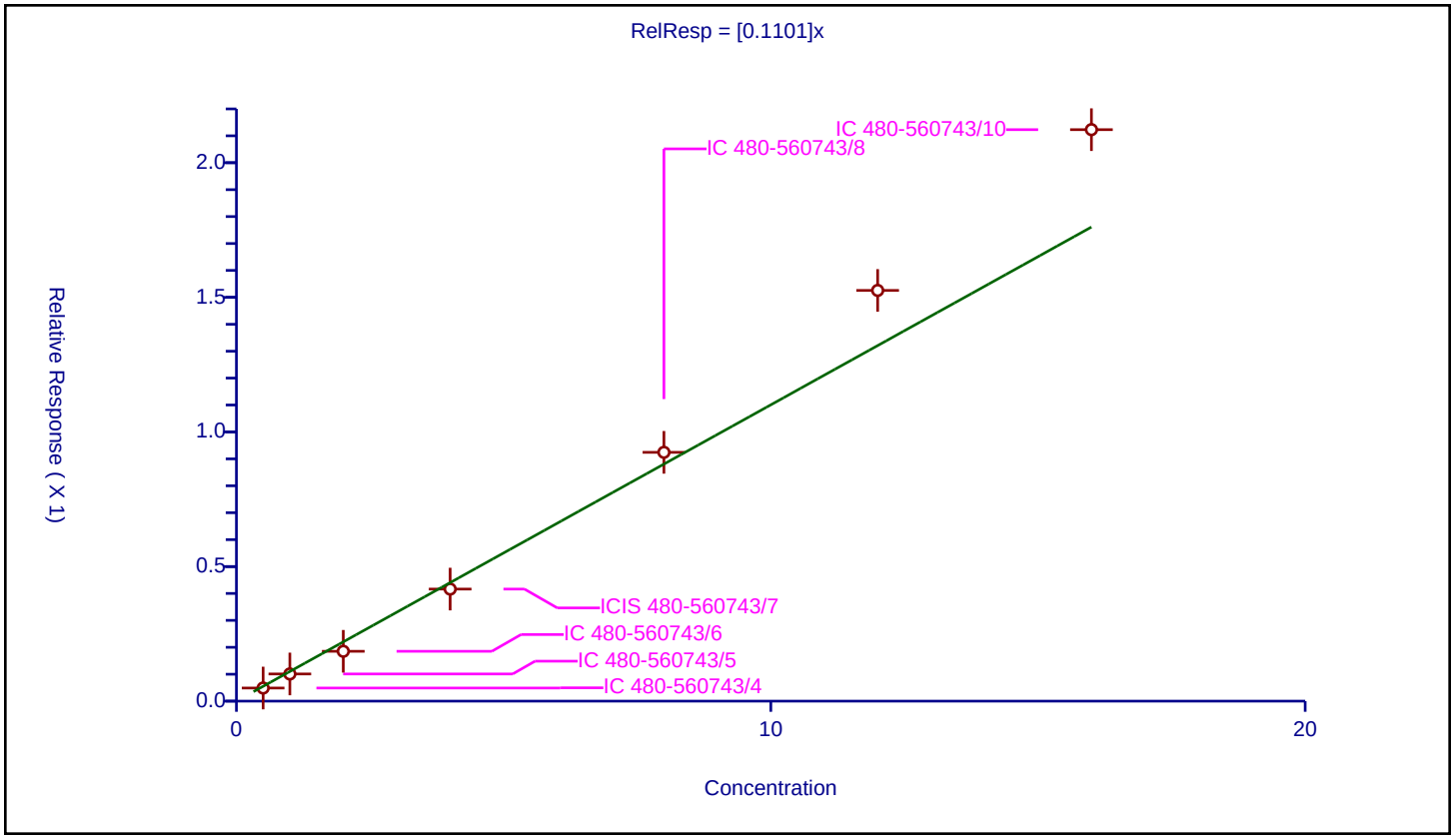
Curve Coefficients

Intercept:	0
Slope:	0.1101

Error Coefficients

Standard Error:	247000
Relative Standard Error:	13.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.048752	4.0	789951.0	0.097505	Y
2	IC 480-560743/5	1.0	0.100979	4.0	808798.0	0.100979	Y
3	IC 480-560743/6	2.0	0.185191	4.0	943566.0	0.092596	Y
4	ICIS 480-560743/7	4.0	0.416255	4.0	963909.0	0.104064	Y
5	IC 480-560743/8	8.0	0.924274	4.0	845914.0	0.115534	Y
6	IC 480-560743/9	12.0	1.525656	4.0	833611.0	0.127138	Y
7	IC 480-560743/10	16.0	2.122961	4.0	871483.0	0.132685	Y



Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

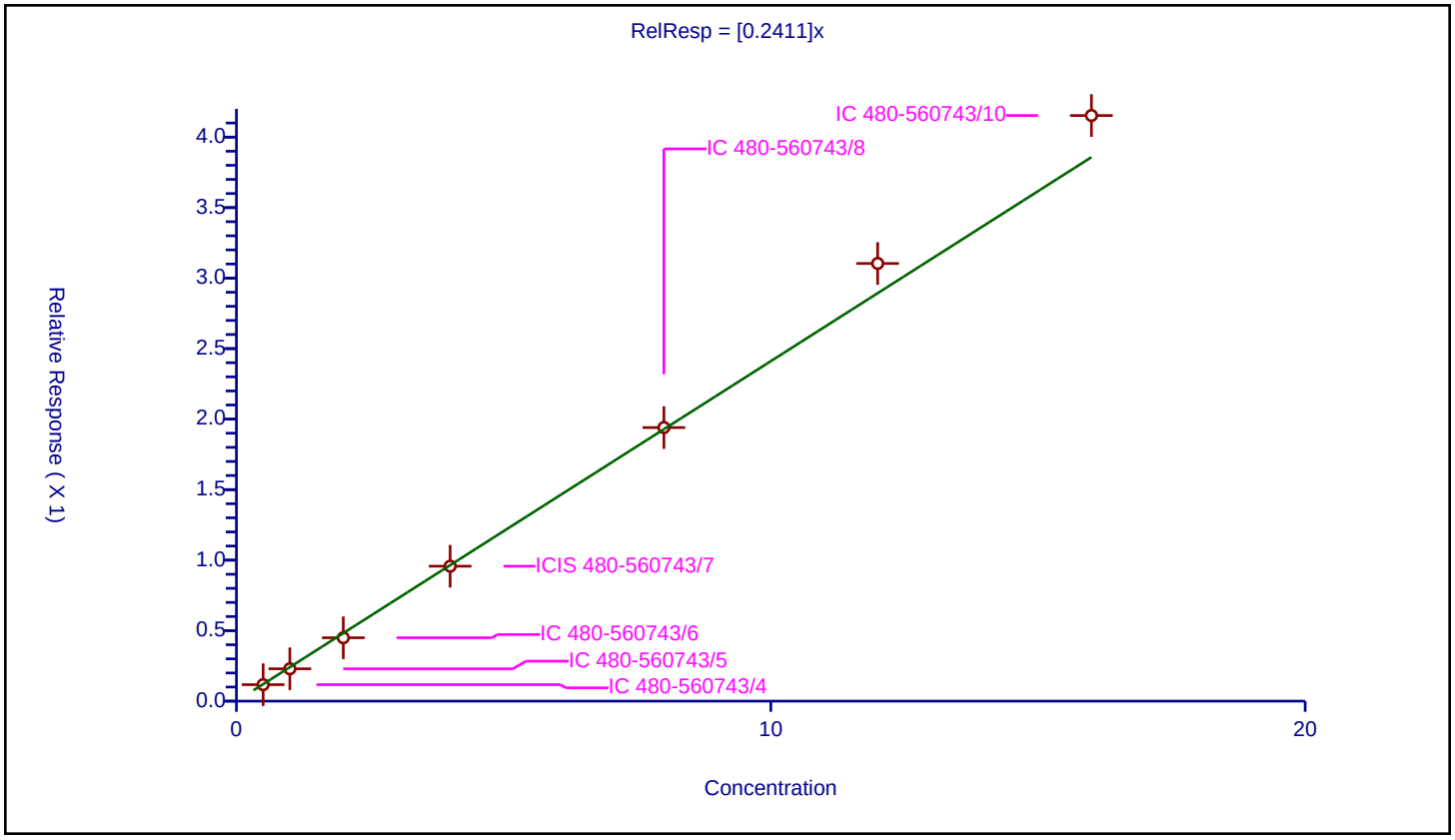
Curve Coefficients

Intercept:	0
Slope:	0.2411

Error Coefficients

Standard Error:	495000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.116827	4.0	789951.0	0.233655	Y
2	IC 480-560743/5	1.0	0.229303	4.0	808798.0	0.229303	Y
3	IC 480-560743/6	2.0	0.449355	4.0	943566.0	0.224677	Y
4	ICIS 480-560743/7	4.0	0.957107	4.0	963909.0	0.239277	Y
5	IC 480-560743/8	8.0	1.940169	4.0	845914.0	0.242521	Y
6	IC 480-560743/9	12.0	3.103851	4.0	833611.0	0.258654	Y
7	IC 480-560743/10	16.0	4.152912	4.0	871483.0	0.259557	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

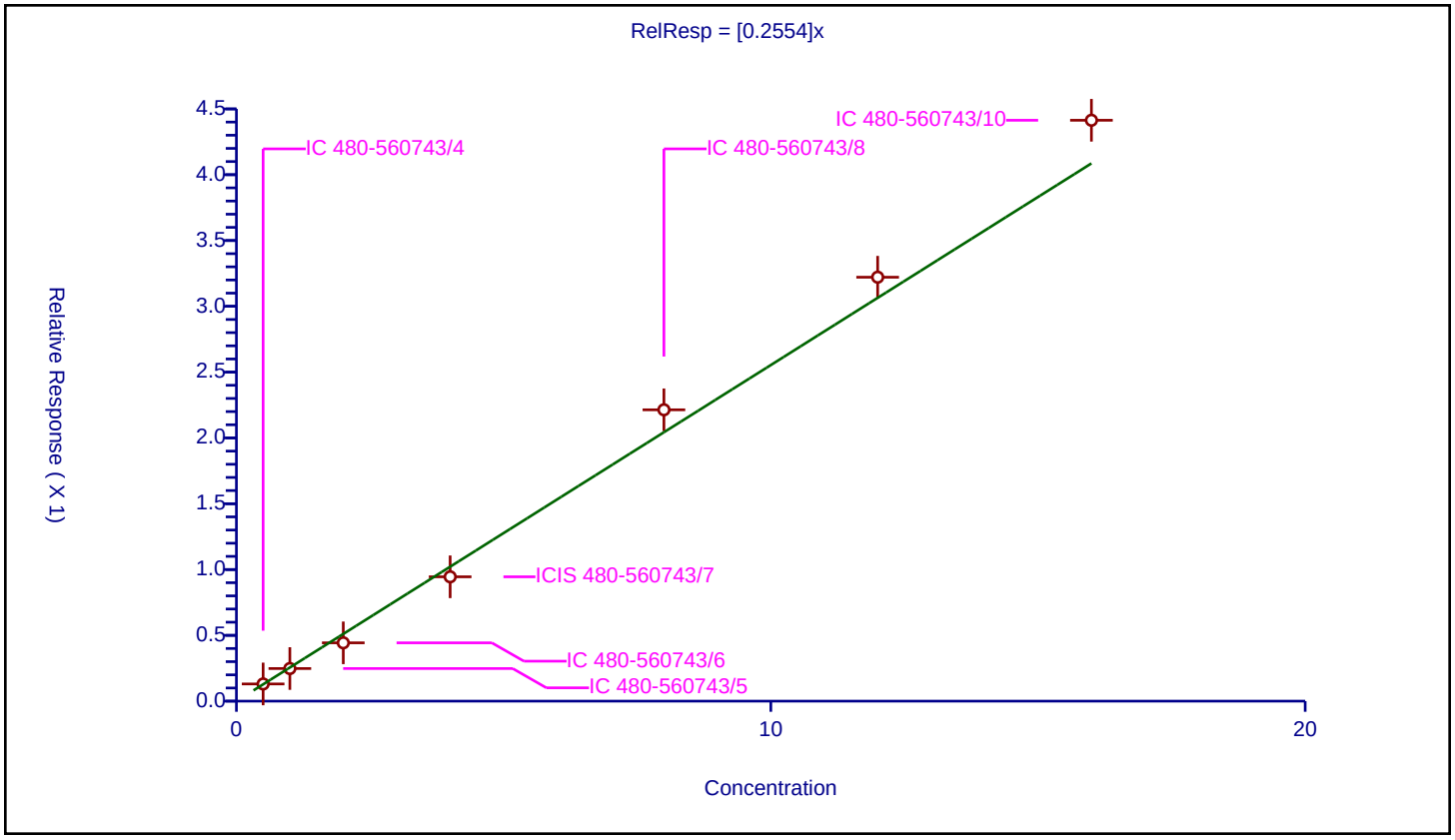
Curve Coefficients

Intercept:	0
Slope:	0.2554

Error Coefficients

Standard Error:	526000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.130565	4.0	789951.0	0.26113	Y
2	IC 480-560743/5	1.0	0.247745	4.0	808798.0	0.247745	Y
3	IC 480-560743/6	2.0	0.443072	4.0	943566.0	0.221536	Y
4	ICIS 480-560743/7	4.0	0.944687	4.0	963909.0	0.236172	Y
5	IC 480-560743/8	8.0	2.213738	4.0	845914.0	0.276717	Y
6	IC 480-560743/9	12.0	3.221248	4.0	833611.0	0.268437	Y
7	IC 480-560743/10	16.0	4.413525	4.0	871483.0	0.275845	Y



Calibration / Atrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

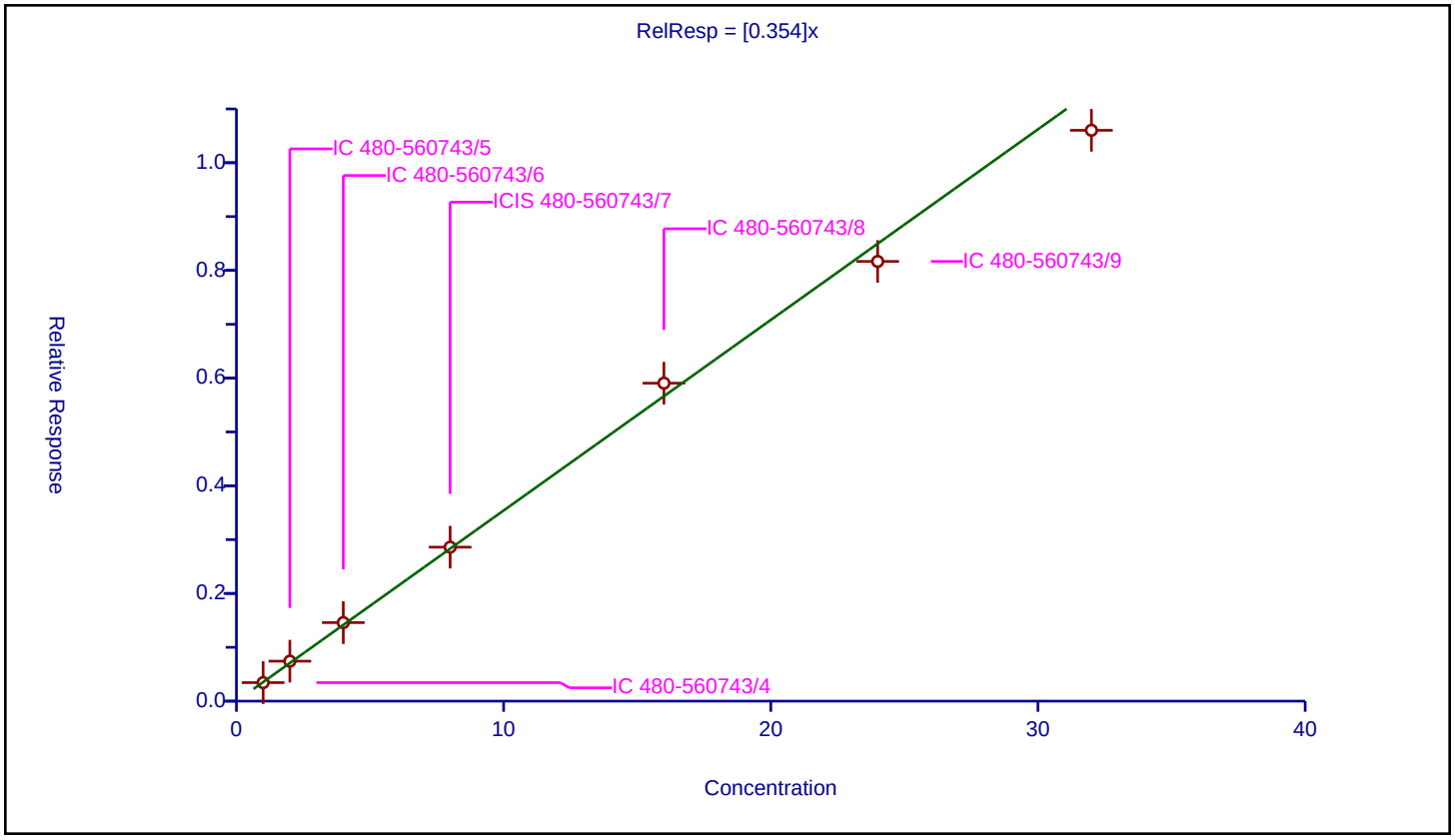
Curve Coefficients

Intercept:	0
Slope:	0.354

Error Coefficients

Standard Error:	818000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.34424	4.0	483244.0	0.34424	Y
2	IC 480-560743/5	2.0	0.742117	4.0	474960.0	0.371059	Y
3	IC 480-560743/6	4.0	1.45856	4.0	515876.0	0.36464	Y
4	ICIS 480-560743/7	8.0	2.860032	4.0	582841.0	0.357504	Y
5	IC 480-560743/8	16.0	5.906172	4.0	514835.0	0.369136	Y
6	IC 480-560743/9	24.0	8.166882	4.0	541150.0	0.340287	Y
7	IC 480-560743/10	32.0	10.602735	4.0	533760.0	0.331335	Y



Calibration / n-Octadecane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

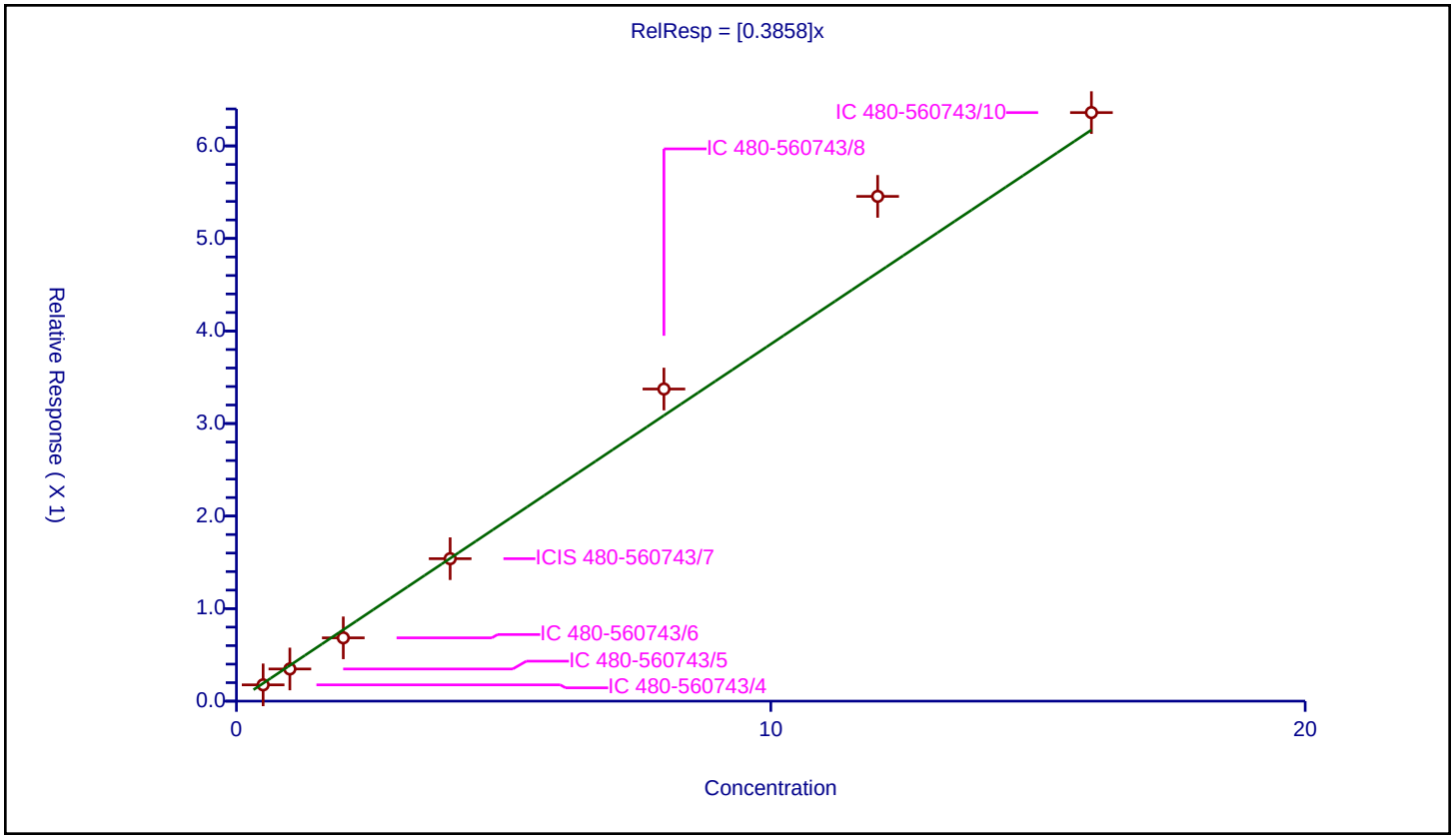
Curve Coefficients

Intercept:	0
Slope:	0.3858

Error Coefficients

Standard Error:	805000
Relative Standard Error:	10.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.176011	4.0	789951.0	0.352022	Y
2	IC 480-560743/5	1.0	0.347919	4.0	808798.0	0.347919	Y
3	IC 480-560743/6	2.0	0.684408	4.0	943566.0	0.342204	Y
4	ICIS 480-560743/7	4.0	1.539481	4.0	963909.0	0.38487	Y
5	IC 480-560743/8	8.0	3.372915	4.0	845914.0	0.421614	Y
6	IC 480-560743/9	12.0	5.454909	4.0	833611.0	0.454576	Y
7	IC 480-560743/10	16.0	6.360349	4.0	871483.0	0.397522	Y



Calibration / Pentachlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

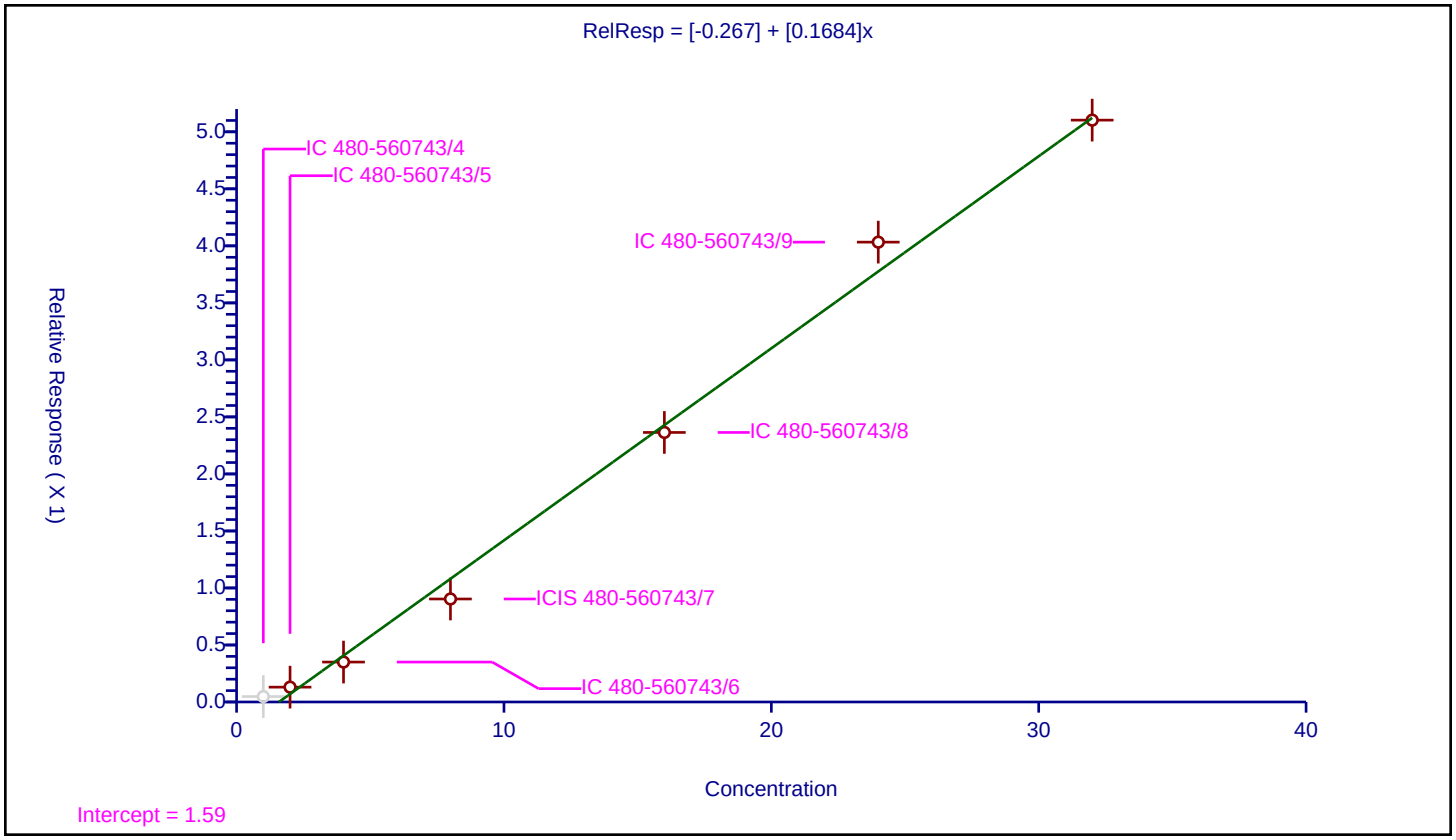
Curve Coefficients

Intercept:	-0.267
Slope:	0.1684

Error Coefficients

Standard Error:	749000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.04779	4.0	789951.0	0.04779	N
2	IC 480-560743/5	2.0	0.130154	4.0	808798.0	0.065077	Y
3	IC 480-560743/6	4.0	0.350292	4.0	943566.0	0.087573	Y
4	ICIS 480-560743/7	8.0	0.903401	4.0	963909.0	0.112925	Y
5	IC 480-560743/8	16.0	2.363819	4.0	845914.0	0.147739	Y
6	IC 480-560743/9	24.0	4.03261	4.0	833611.0	0.168025	Y
7	IC 480-560743/10	32.0	5.10258	4.0	871483.0	0.159456	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

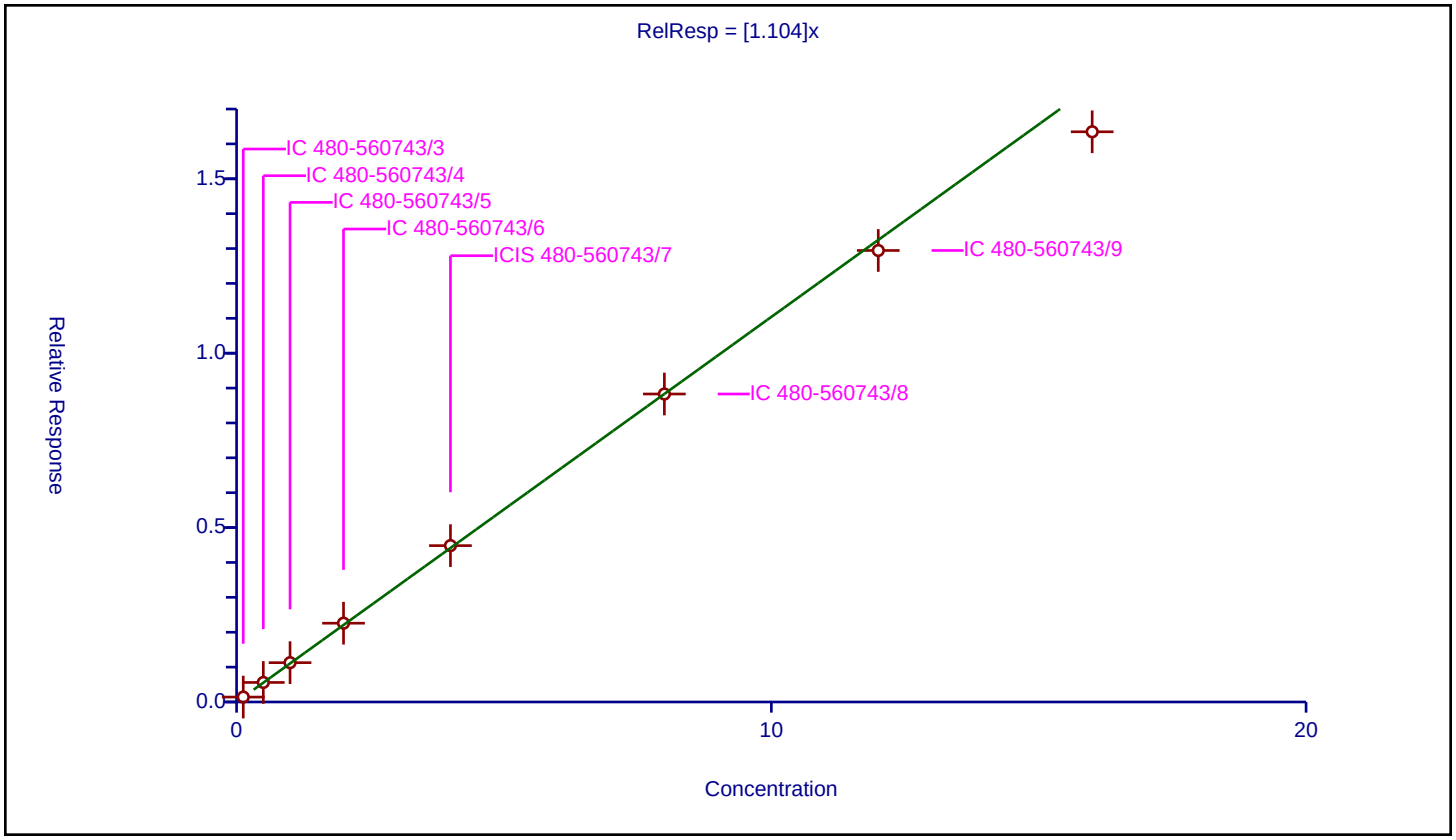
Curve Coefficients

Intercept:	0
Slope:	1.104

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	3.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.141124	4.0	730590.0	1.128994	Y
2	IC 480-560743/4	0.5	0.560025	4.0	789951.0	1.120049	Y
3	IC 480-560743/5	1.0	1.1275	4.0	808798.0	1.1275	Y
4	IC 480-560743/6	2.0	2.259594	4.0	943566.0	1.129797	Y
5	ICIS 480-560743/7	4.0	4.483639	4.0	963909.0	1.12091	Y
6	IC 480-560743/8	8.0	8.82973	4.0	845914.0	1.103716	Y
7	IC 480-560743/9	12.0	12.944431	4.0	833611.0	1.078703	Y
8	IC 480-560743/10	16.0	16.348133	4.0	871483.0	1.021758	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

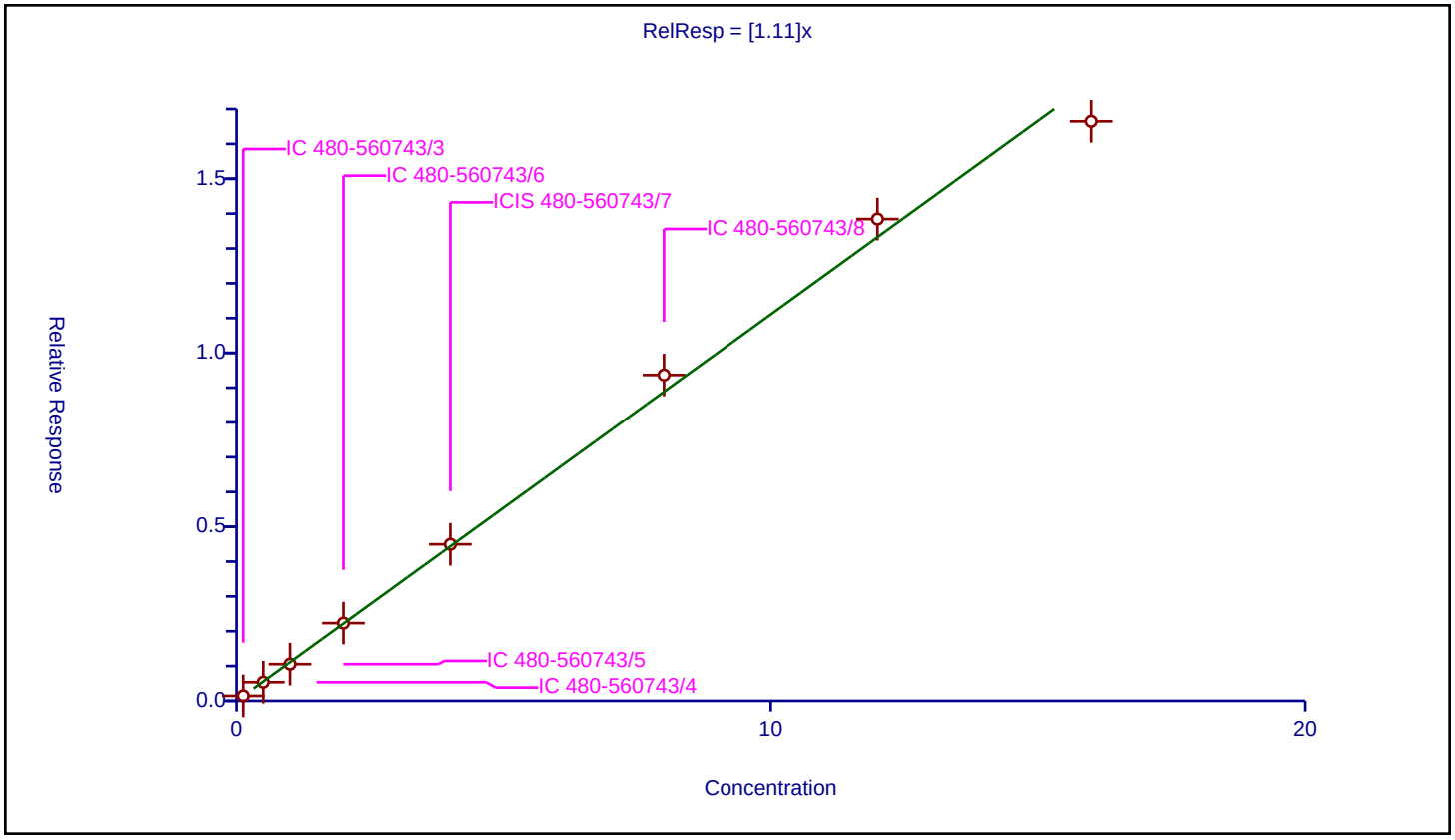
Curve Coefficients

Intercept:	0
Slope:	1.11

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	4.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.143583	4.0	730590.0	1.148661	Y
2	IC 480-560743/4	0.5	0.536965	4.0	789951.0	1.07393	Y
3	IC 480-560743/5	1.0	1.055735	4.0	808798.0	1.055735	Y
4	IC 480-560743/6	2.0	2.232972	4.0	943566.0	1.116486	Y
5	ICIS 480-560743/7	4.0	4.497478	4.0	963909.0	1.12437	Y
6	IC 480-560743/8	8.0	9.364474	4.0	845914.0	1.170559	Y
7	IC 480-560743/9	12.0	13.844155	4.0	833611.0	1.15368	Y
8	IC 480-560743/10	16.0	16.648288	4.0	871483.0	1.040518	Y



Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

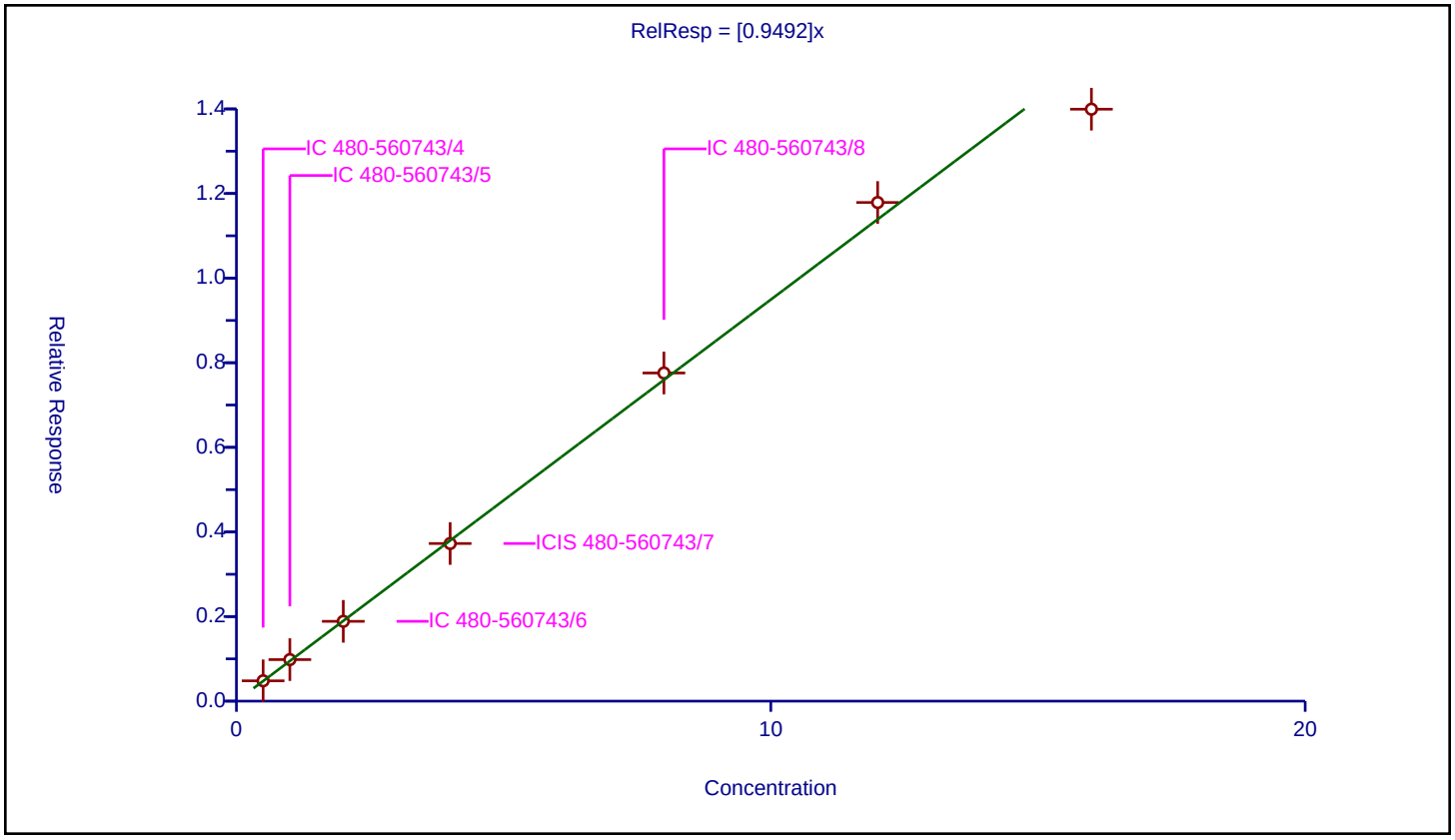
Curve Coefficients

Intercept:	0
Slope:	0.9492

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	4.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.480617	4.0	789951.0	0.961234	Y
2	IC 480-560743/5	1.0	0.981827	4.0	808798.0	0.981827	Y
3	IC 480-560743/6	2.0	1.88674	4.0	943566.0	0.94337	Y
4	ICIS 480-560743/7	4.0	3.726028	4.0	963909.0	0.931507	Y
5	IC 480-560743/8	8.0	7.756741	4.0	845914.0	0.969593	Y
6	IC 480-560743/9	12.0	11.787378	4.0	833611.0	0.982282	Y
7	IC 480-560743/10	16.0	13.992952	4.0	871483.0	0.87456	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

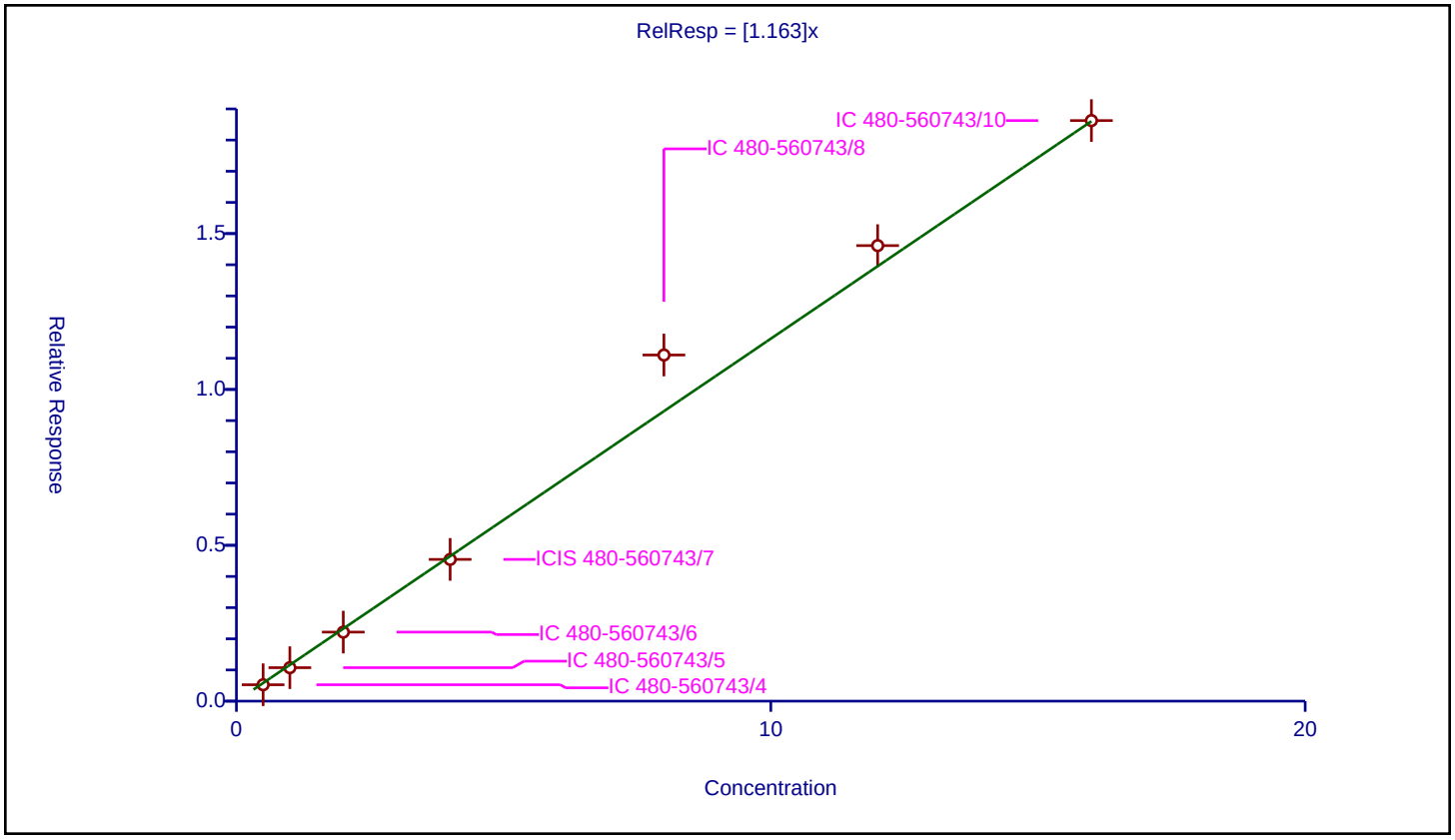
Curve Coefficients

Intercept:	0
Slope:	1.163

Error Coefficients

Standard Error:	2340000
Relative Standard Error:	9.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.525835	4.0	789951.0	1.05167	Y
2	IC 480-560743/5	1.0	1.073326	4.0	808798.0	1.073326	Y
3	IC 480-560743/6	2.0	2.215315	4.0	943566.0	1.107658	Y
4	ICIS 480-560743/7	4.0	4.546836	4.0	963909.0	1.136709	Y
5	IC 480-560743/8	8.0	11.104003	4.0	845914.0	1.388	Y
6	IC 480-560743/9	12.0	14.614179	4.0	833611.0	1.217848	Y
7	IC 480-560743/10	16.0	18.624896	4.0	871483.0	1.164056	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

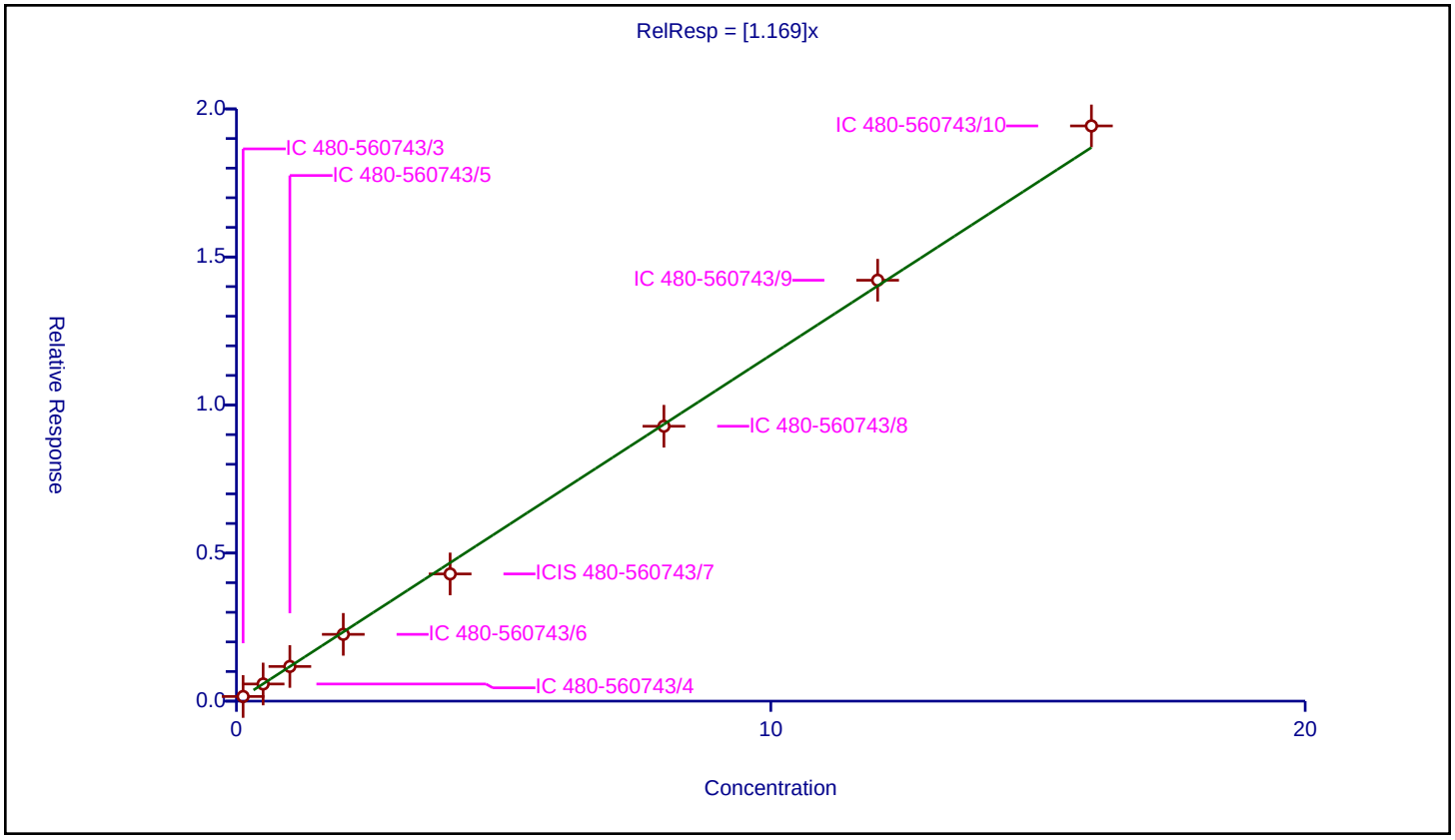
Curve Coefficients

Intercept:	0
Slope:	1.169

Error Coefficients

Standard Error:	2140000
Relative Standard Error:	4.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.157128	4.0	730590.0	1.257022	Y
2	IC 480-560743/4	0.5	0.579413	4.0	789951.0	1.158826	Y
3	IC 480-560743/5	1.0	1.171526	4.0	808798.0	1.171526	Y
4	IC 480-560743/6	2.0	2.256245	4.0	943566.0	1.128122	Y
5	ICIS 480-560743/7	4.0	4.296655	4.0	963909.0	1.074164	Y
6	IC 480-560743/8	8.0	9.283974	4.0	845914.0	1.160497	Y
7	IC 480-560743/9	12.0	14.214899	4.0	833611.0	1.184575	Y
8	IC 480-560743/10	16.0	19.425641	4.0	871483.0	1.214103	Y



Calibration / Benzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

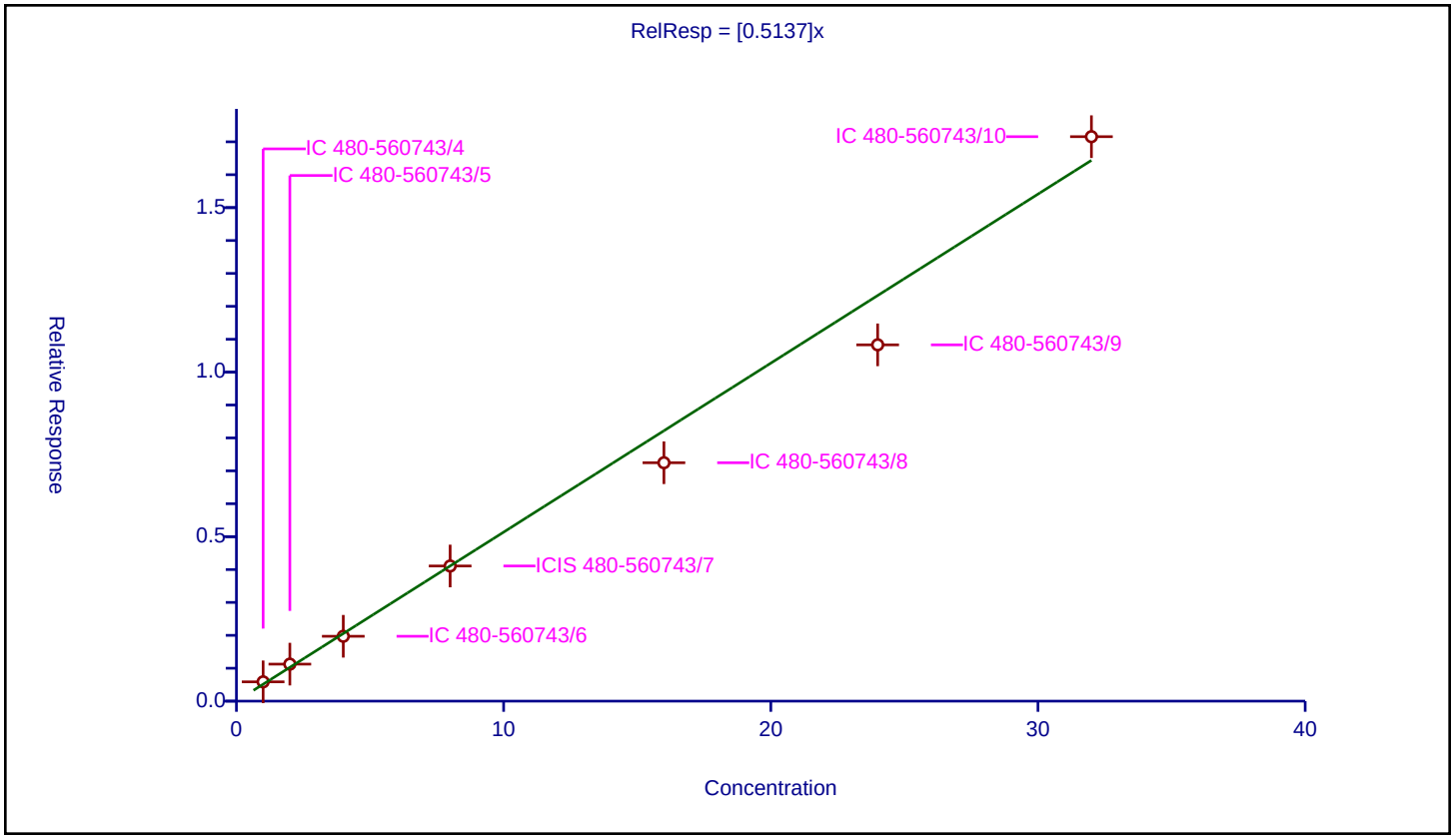
Curve Coefficients

Intercept:	0
Slope:	0.5137

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	10.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.586668	4.0	699449.0	0.586668	Y
2	IC 480-560743/5	2.0	1.124827	4.0	744520.0	0.562413	Y
3	IC 480-560743/6	4.0	1.971609	4.0	875638.0	0.492902	Y
4	ICIS 480-560743/7	8.0	4.107553	4.0	861119.0	0.513444	Y
5	IC 480-560743/8	16.0	7.245963	4.0	839232.0	0.452873	Y
6	IC 480-560743/9	24.0	10.829399	4.0	935608.0	0.451225	Y
7	IC 480-560743/10	32.0	17.15567	4.0	784238.0	0.536115	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

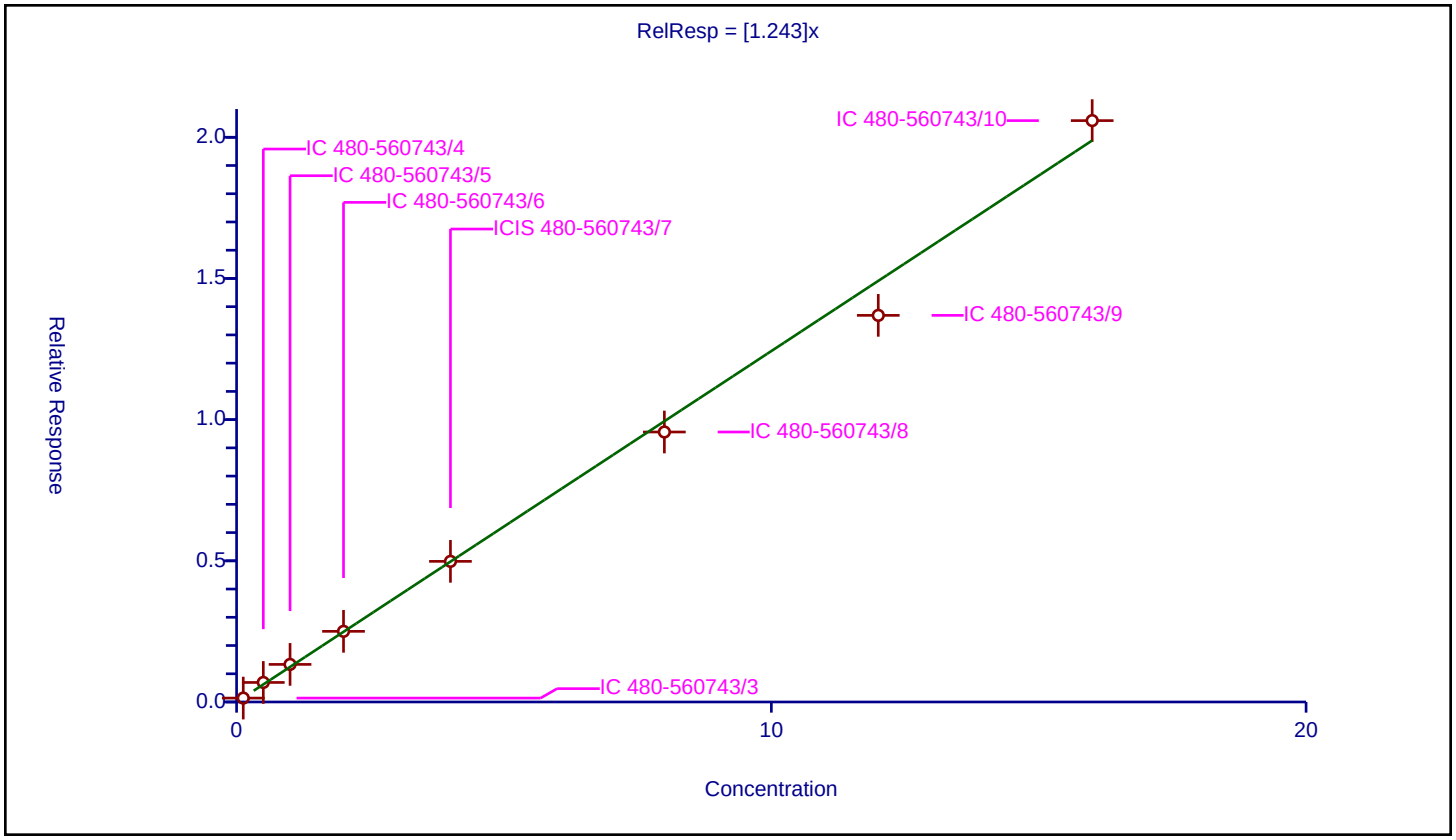
Curve Coefficients

Intercept:	0
Slope:	1.243

Error Coefficients

Standard Error:	2140000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.13842	4.0	776970.0	1.107358	Y
2	IC 480-560743/4	0.5	0.692391	4.0	699449.0	1.384781	Y
3	IC 480-560743/5	1.0	1.330774	4.0	744520.0	1.330774	Y
4	IC 480-560743/6	2.0	2.5026	4.0	875638.0	1.2513	Y
5	ICIS 480-560743/7	4.0	4.980715	4.0	861119.0	1.245179	Y
6	IC 480-560743/8	8.0	9.561799	4.0	839232.0	1.195225	Y
7	IC 480-560743/9	12.0	13.692688	4.0	935608.0	1.141057	Y
8	IC 480-560743/10	16.0	20.590408	4.0	784238.0	1.2869	Y



Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

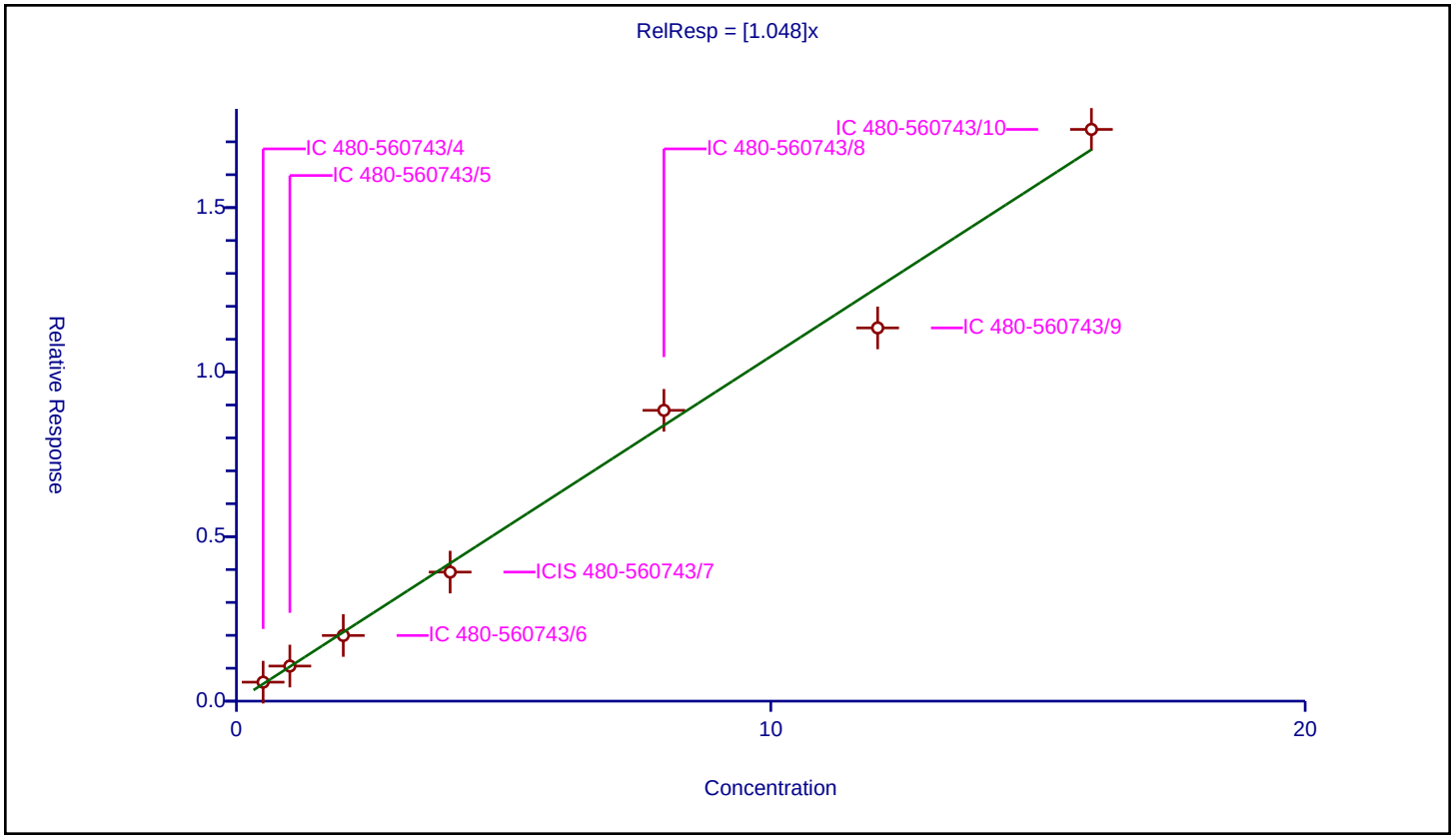
Curve Coefficients

Intercept:	0
Slope:	1.048

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.576374	4.0	699449.0	1.152747	Y
2	IC 480-560743/5	1.0	1.066104	4.0	744520.0	1.066104	Y
3	IC 480-560743/6	2.0	1.996071	4.0	875638.0	0.998036	Y
4	ICIS 480-560743/7	4.0	3.922654	4.0	861119.0	0.980664	Y
5	IC 480-560743/8	8.0	8.838433	4.0	839232.0	1.104804	Y
6	IC 480-560743/9	12.0	11.344696	4.0	935608.0	0.945391	Y
7	IC 480-560743/10	16.0	17.377107	4.0	784238.0	1.086069	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

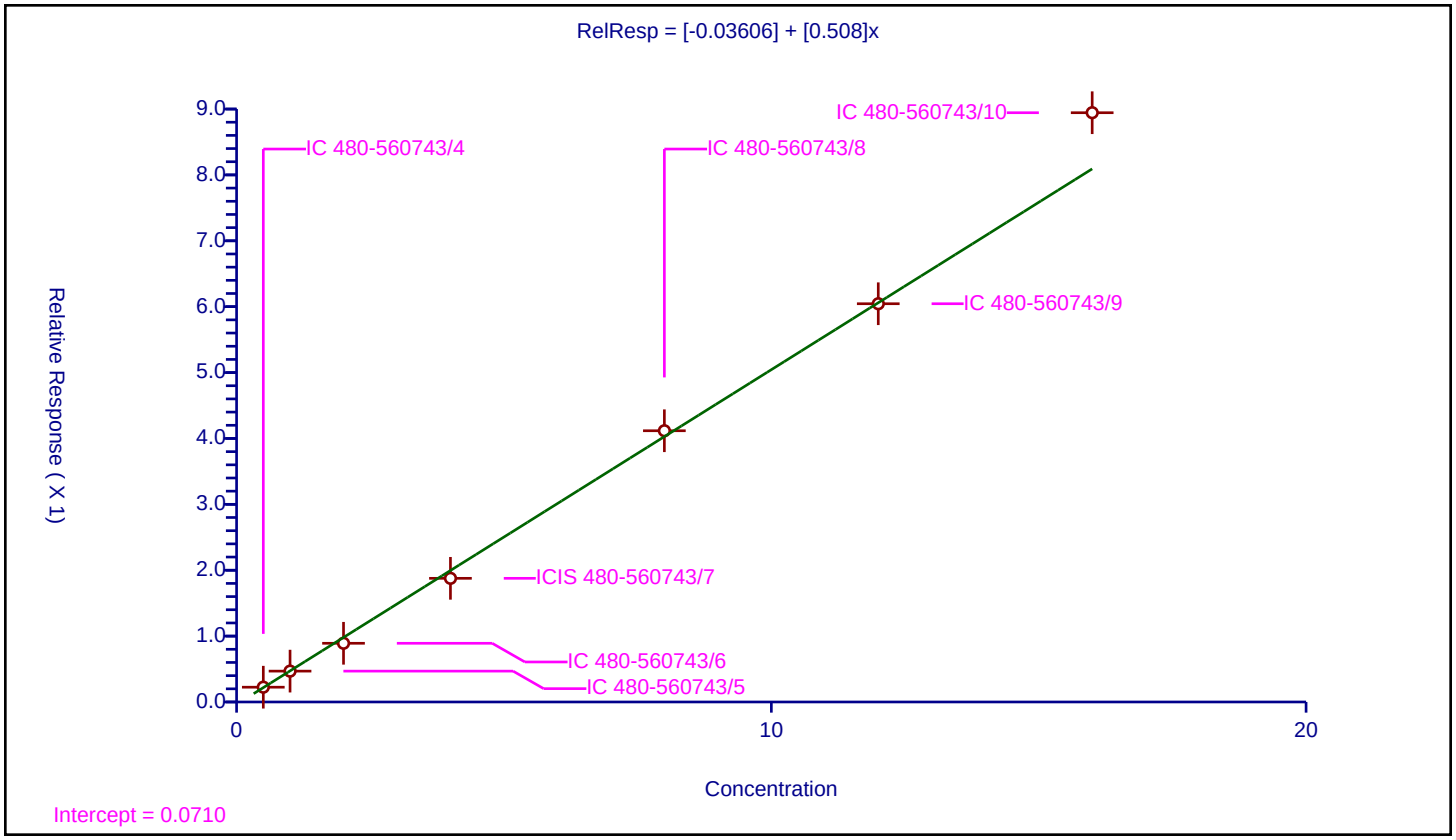
Curve Coefficients

Intercept:	-0.03606
Slope:	0.508

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.224994	4.0	699449.0	0.449988	Y
2	IC 480-560743/5	1.0	0.468592	4.0	744520.0	0.468592	Y
3	IC 480-560743/6	2.0	0.891483	4.0	875638.0	0.445741	Y
4	ICIS 480-560743/7	4.0	1.876818	4.0	861119.0	0.469205	Y
5	IC 480-560743/8	8.0	4.116888	4.0	839232.0	0.514611	Y
6	IC 480-560743/9	12.0	6.044767	4.0	935608.0	0.503731	Y
7	IC 480-560743/10	16.0	8.944173	4.0	784238.0	0.559011	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

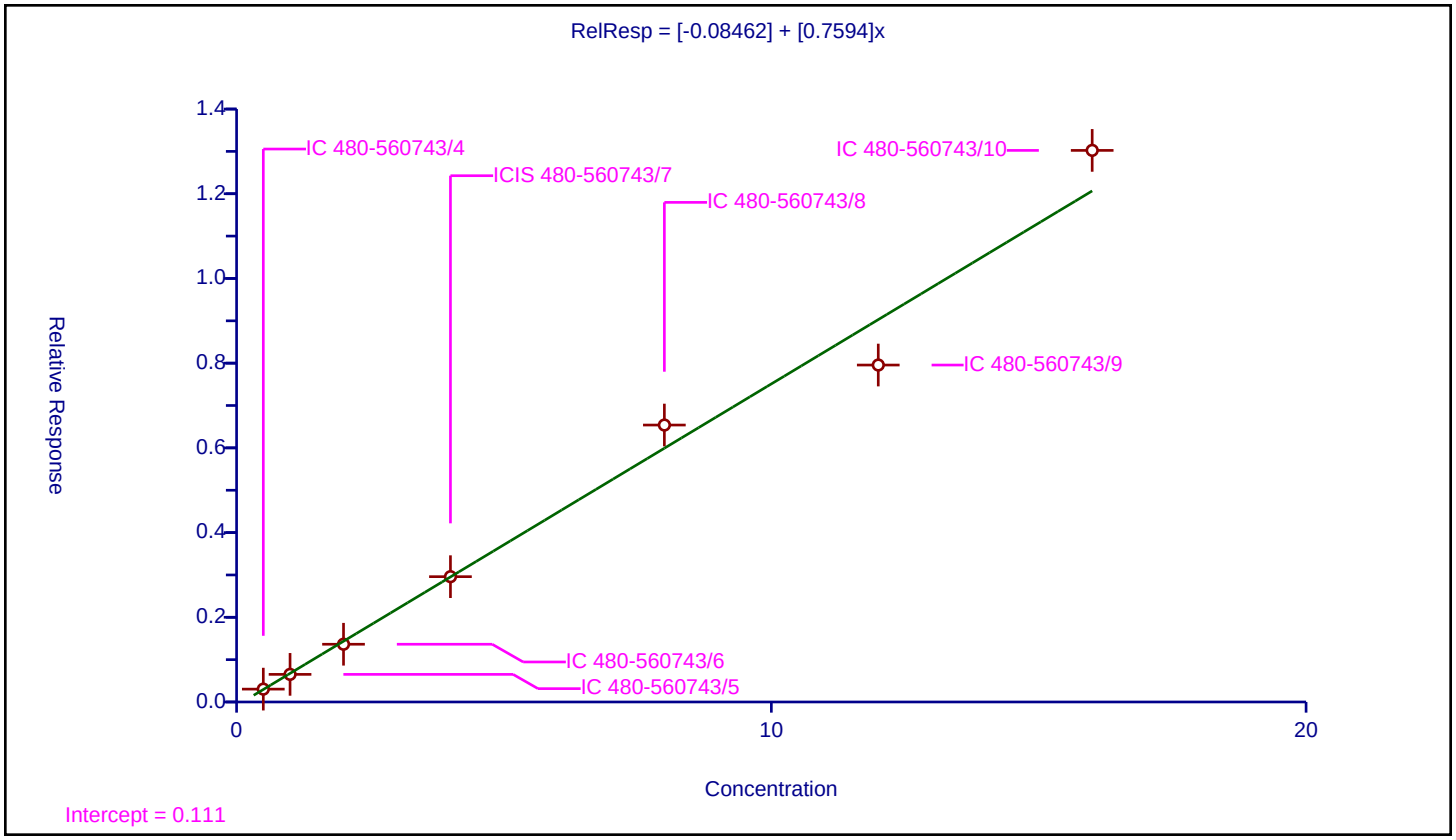
Curve Coefficients

Intercept:	-0.08462
Slope:	0.7594

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.303873	4.0	699449.0	0.607747	Y
2	IC 480-560743/5	1.0	0.652114	4.0	744520.0	0.652114	Y
3	IC 480-560743/6	2.0	1.363933	4.0	875638.0	0.681967	Y
4	ICIS 480-560743/7	4.0	2.958509	4.0	861119.0	0.739627	Y
5	IC 480-560743/8	8.0	6.53884	4.0	839232.0	0.817355	Y
6	IC 480-560743/9	12.0	7.956114	4.0	935608.0	0.66301	Y
7	IC 480-560743/10	16.0	13.023812	4.0	784238.0	0.813988	Y



Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

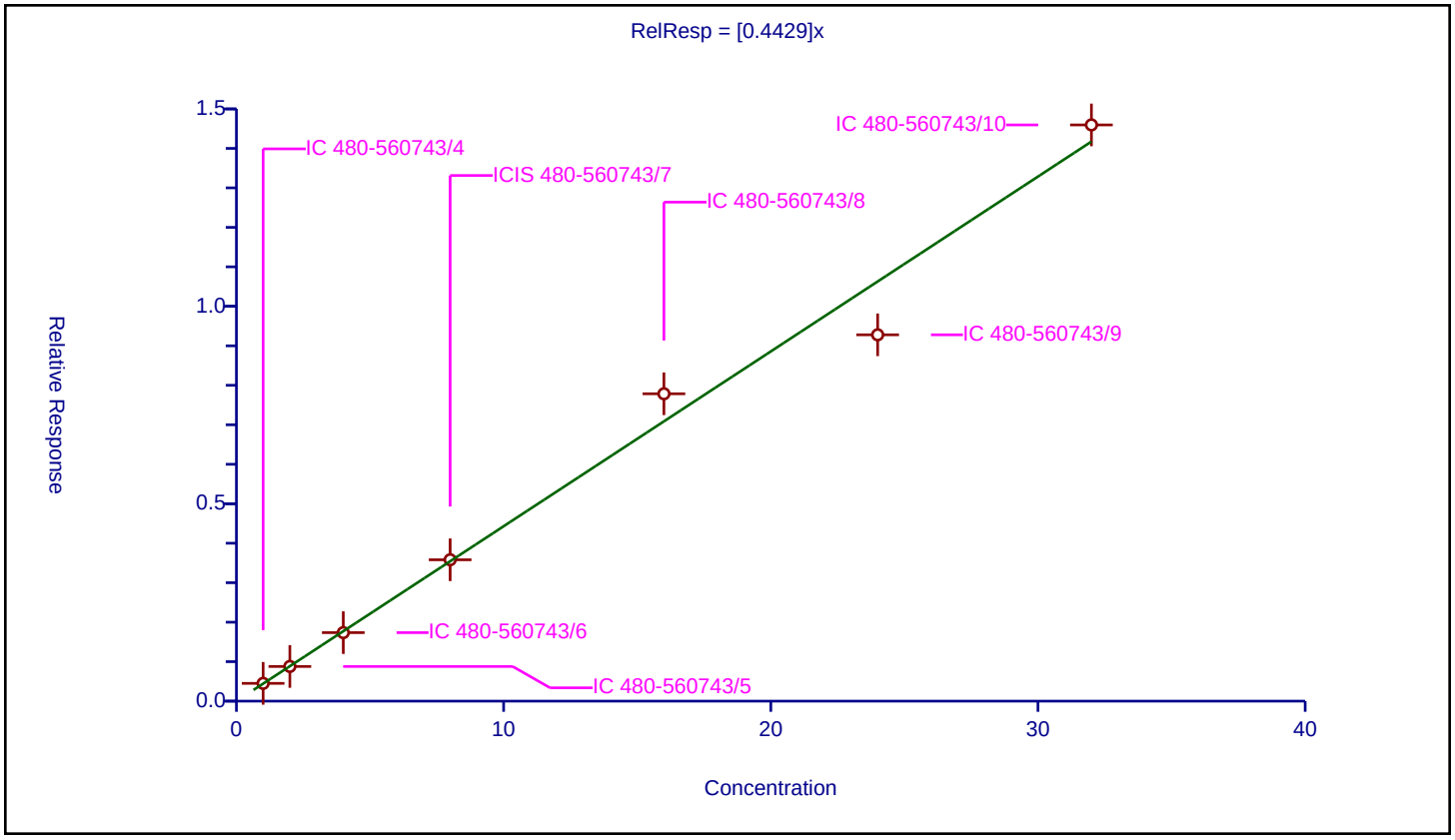
Curve Coefficients

Intercept:	0
Slope:	0.4429

Error Coefficients

Standard Error:	1650000
Relative Standard Error:	6.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	1.0	0.450189	4.0	699449.0	0.450189	Y
2	IC 480-560743/5	2.0	0.878617	4.0	744520.0	0.439309	Y
3	IC 480-560743/6	4.0	1.73527	4.0	875638.0	0.433817	Y
4	ICIS 480-560743/7	8.0	3.581094	4.0	861119.0	0.447637	Y
5	IC 480-560743/8	16.0	7.784708	4.0	839232.0	0.486544	Y
6	IC 480-560743/9	24.0	9.27833	4.0	935608.0	0.386597	Y
7	IC 480-560743/10	32.0	14.594503	4.0	784238.0	0.456078	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

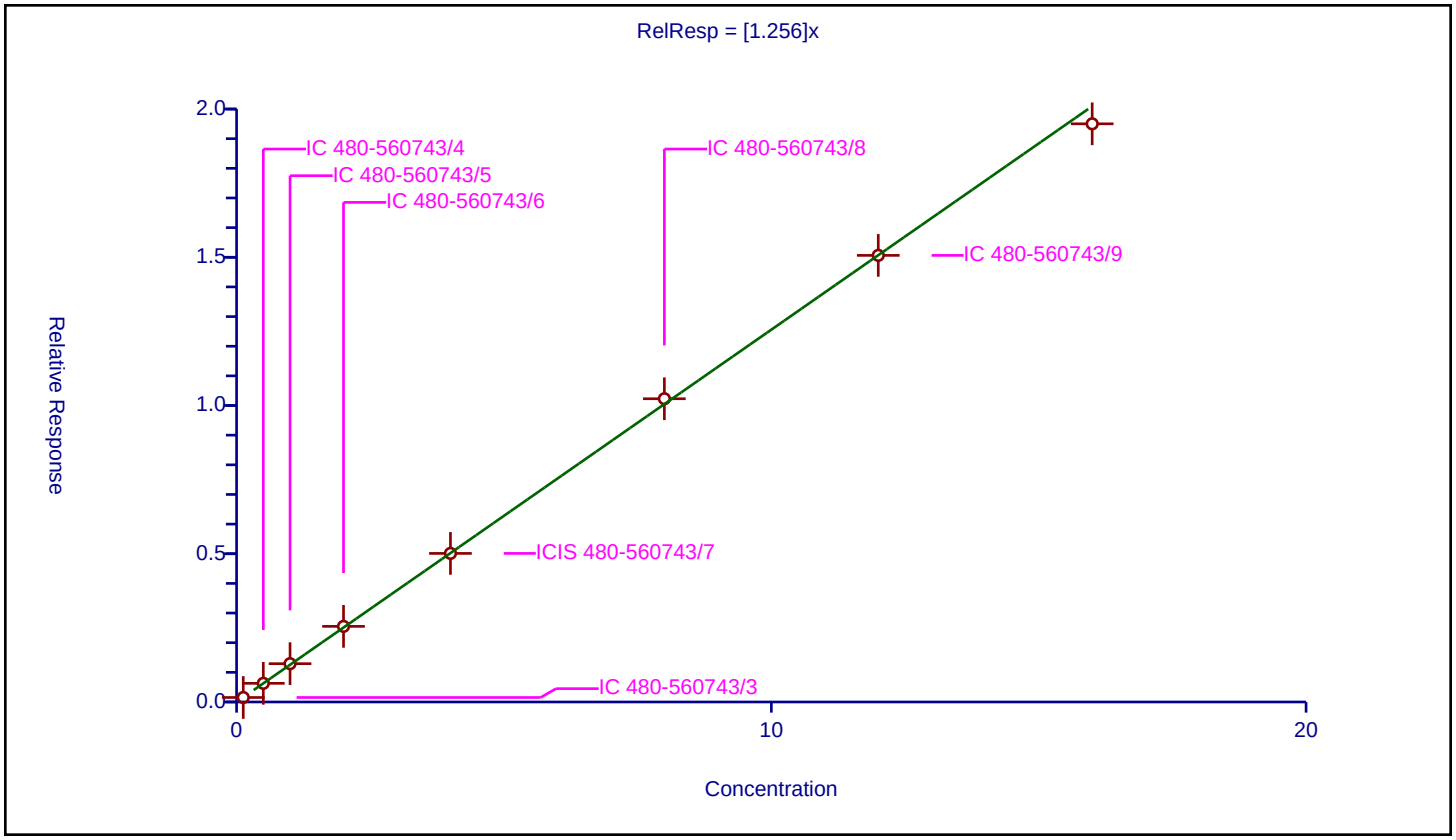
Curve Coefficients

Intercept:	0
Slope:	1.256

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	2.2
Correlation Coefficient:	0.983
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.151929	4.0	776970.0	1.215429	Y
2	IC 480-560743/4	0.5	0.628987	4.0	699449.0	1.257973	Y
3	IC 480-560743/5	1.0	1.292425	4.0	744520.0	1.292425	Y
4	IC 480-560743/6	2.0	2.550506	4.0	875638.0	1.275253	Y
5	ICIS 480-560743/7	4.0	5.011814	4.0	861119.0	1.252953	Y
6	IC 480-560743/8	8.0	10.228008	4.0	839232.0	1.278501	Y
7	IC 480-560743/9	12.0	15.063736	4.0	935608.0	1.255311	Y
8	IC 480-560743/10	16.0	19.501019	4.0	784238.0	1.218814	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

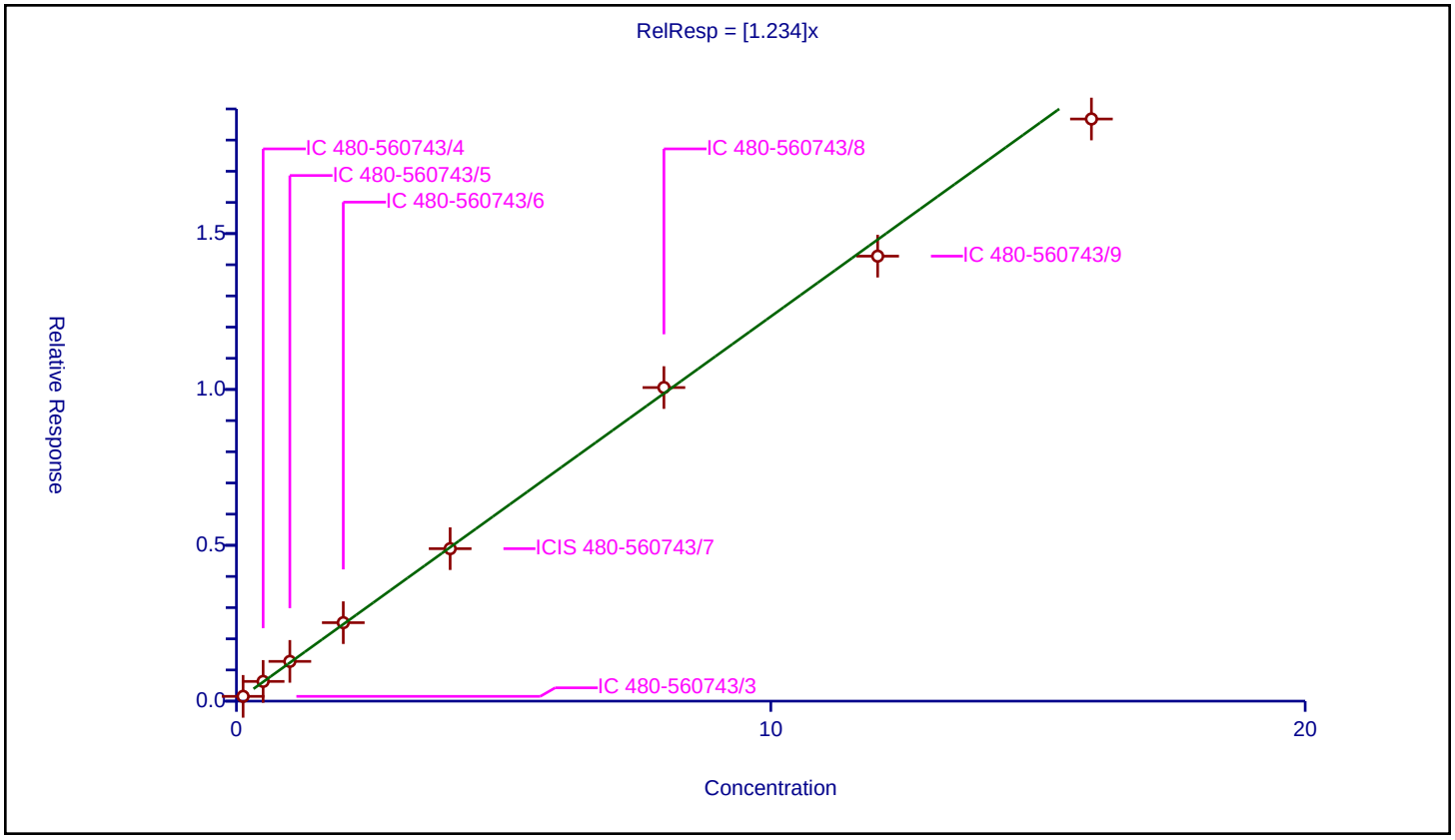
Curve Coefficients

Intercept:	0
Slope:	1.234

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	3.1
Correlation Coefficient:	0.984
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.154168	4.0	776970.0	1.233345	Y
2	IC 480-560743/4	0.5	0.633344	4.0	699449.0	1.266688	Y
3	IC 480-560743/5	1.0	1.275152	4.0	744520.0	1.275152	Y
4	IC 480-560743/6	2.0	2.517419	4.0	875638.0	1.25871	Y
5	ICIS 480-560743/7	4.0	4.891068	4.0	861119.0	1.222767	Y
6	IC 480-560743/8	8.0	10.060708	4.0	839232.0	1.257588	Y
7	IC 480-560743/9	12.0	14.276607	4.0	935608.0	1.189717	Y
8	IC 480-560743/10	16.0	18.677121	4.0	784238.0	1.16732	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

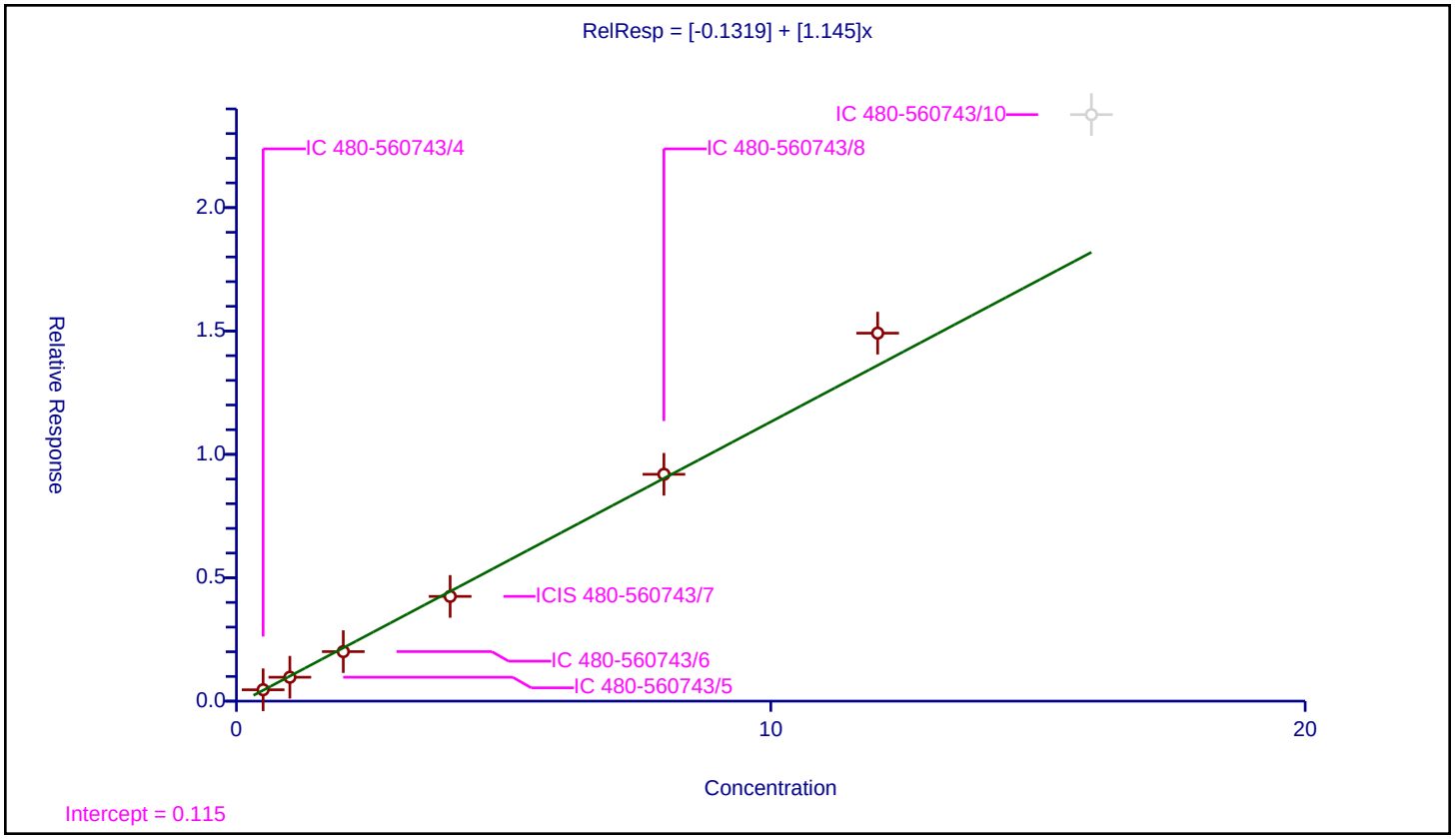
Curve Coefficients

Intercept:	-0.1319
Slope:	1.145

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	6.8
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/4	0.5	0.461403	4.0	699449.0	0.922806	Y
2	IC 480-560743/5	1.0	0.96907	4.0	744520.0	0.96907	Y
3	IC 480-560743/6	2.0	2.007282	4.0	875638.0	1.003641	Y
4	ICIS 480-560743/7	4.0	4.244287	4.0	861119.0	1.061072	Y
5	IC 480-560743/8	8.0	9.192791	4.0	839232.0	1.149099	Y
6	IC 480-560743/9	12.0	14.913301	4.0	935608.0	1.242775	Y
7	IC 480-560743/10	16.0	23.767662	4.0	784238.0	1.485479	N



Calibration / Benzo[b]fluoranthene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

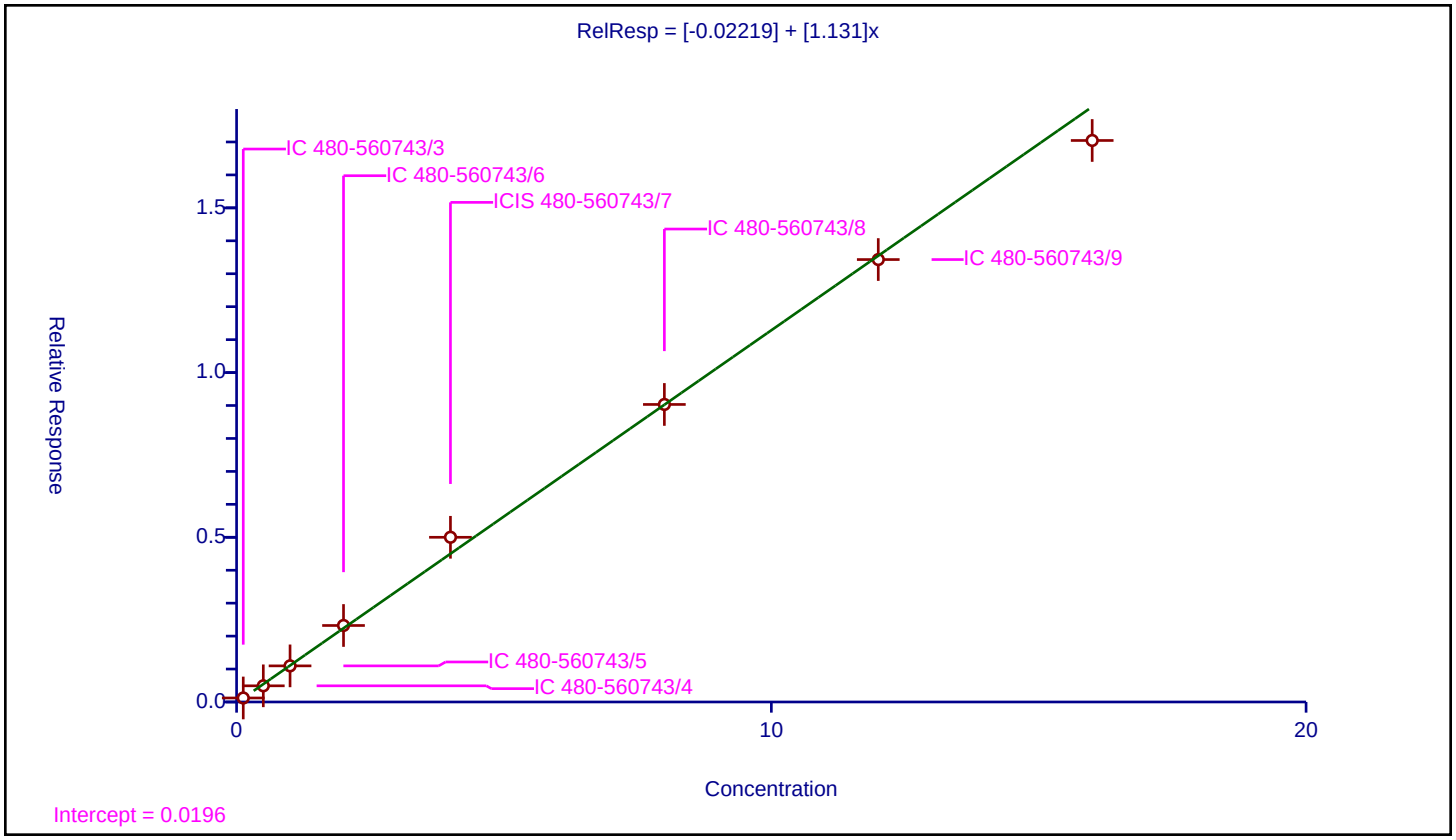
Curve Coefficients

Intercept:	-0.02219
Slope:	1.131

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.121843	4.0	770959.0	0.974744	Y
2	IC 480-560743/4	0.5	0.491007	4.0	835010.0	0.982015	Y
3	IC 480-560743/5	1.0	1.096488	4.0	798006.0	1.096488	Y
4	IC 480-560743/6	2.0	2.323169	4.0	875845.0	1.161585	Y
5	ICIS 480-560743/7	4.0	5.000737	4.0	813193.0	1.250184	Y
6	IC 480-560743/8	8.0	9.031444	4.0	854034.0	1.12893	Y
7	IC 480-560743/9	12.0	13.430246	4.0	875192.0	1.119187	Y
8	IC 480-560743/10	16.0	17.045585	4.0	898490.0	1.065349	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

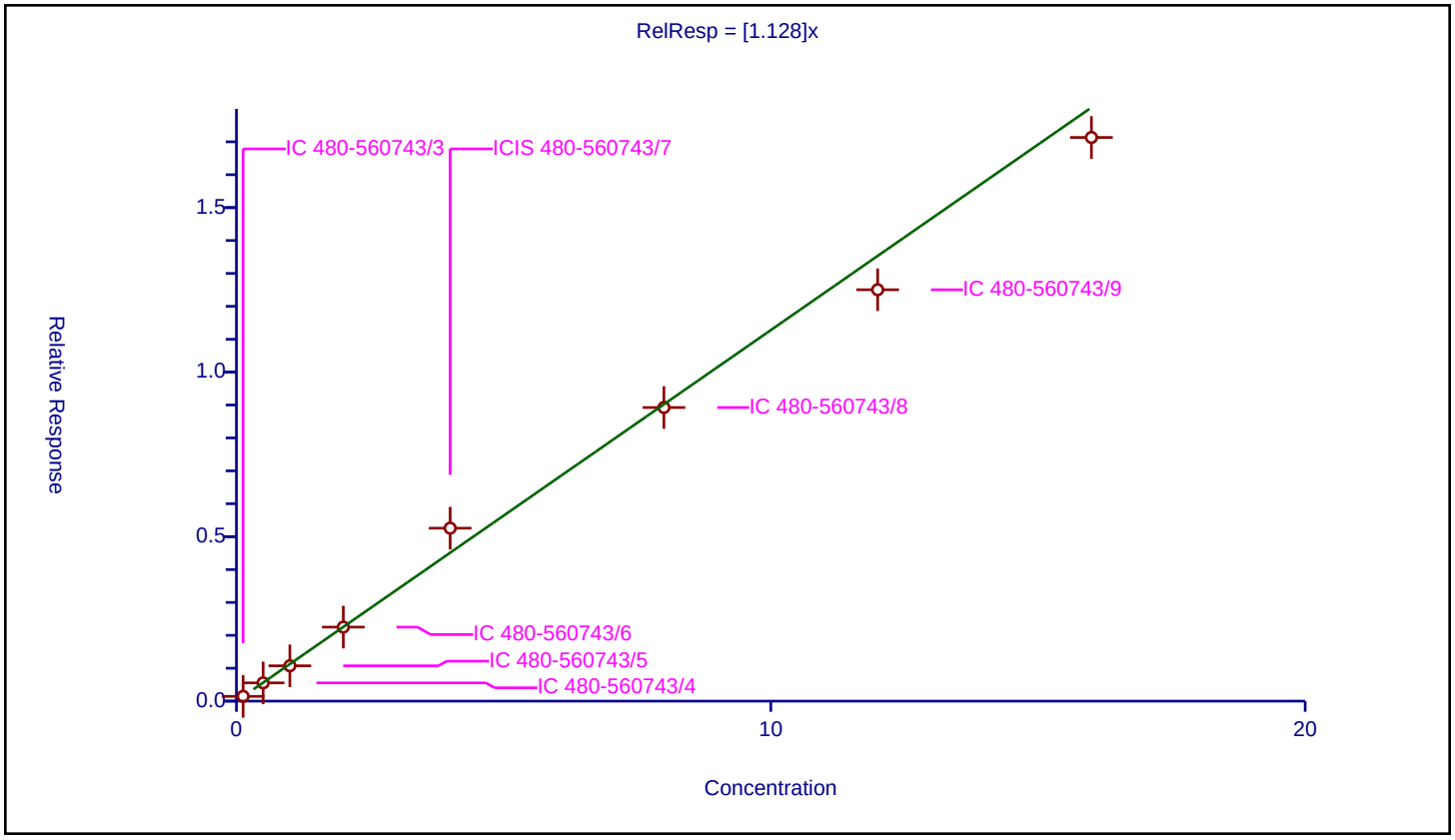
Curve Coefficients

Intercept:	0
Slope:	1.128

Error Coefficients

Standard Error:	1980000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.146093	4.0	770959.0	1.168747	Y
2	IC 480-560743/4	0.5	0.555203	4.0	835010.0	1.110406	Y
3	IC 480-560743/5	1.0	1.074493	4.0	798006.0	1.074493	Y
4	IC 480-560743/6	2.0	2.250234	4.0	875845.0	1.125117	Y
5	ICIS 480-560743/7	4.0	5.257404	4.0	813193.0	1.314351	Y
6	IC 480-560743/8	8.0	8.92453	4.0	854034.0	1.115566	Y
7	IC 480-560743/9	12.0	12.504027	4.0	875192.0	1.042002	Y
8	IC 480-560743/10	16.0	17.132113	4.0	898490.0	1.070757	Y



Calibration / Benzo[a]pyrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

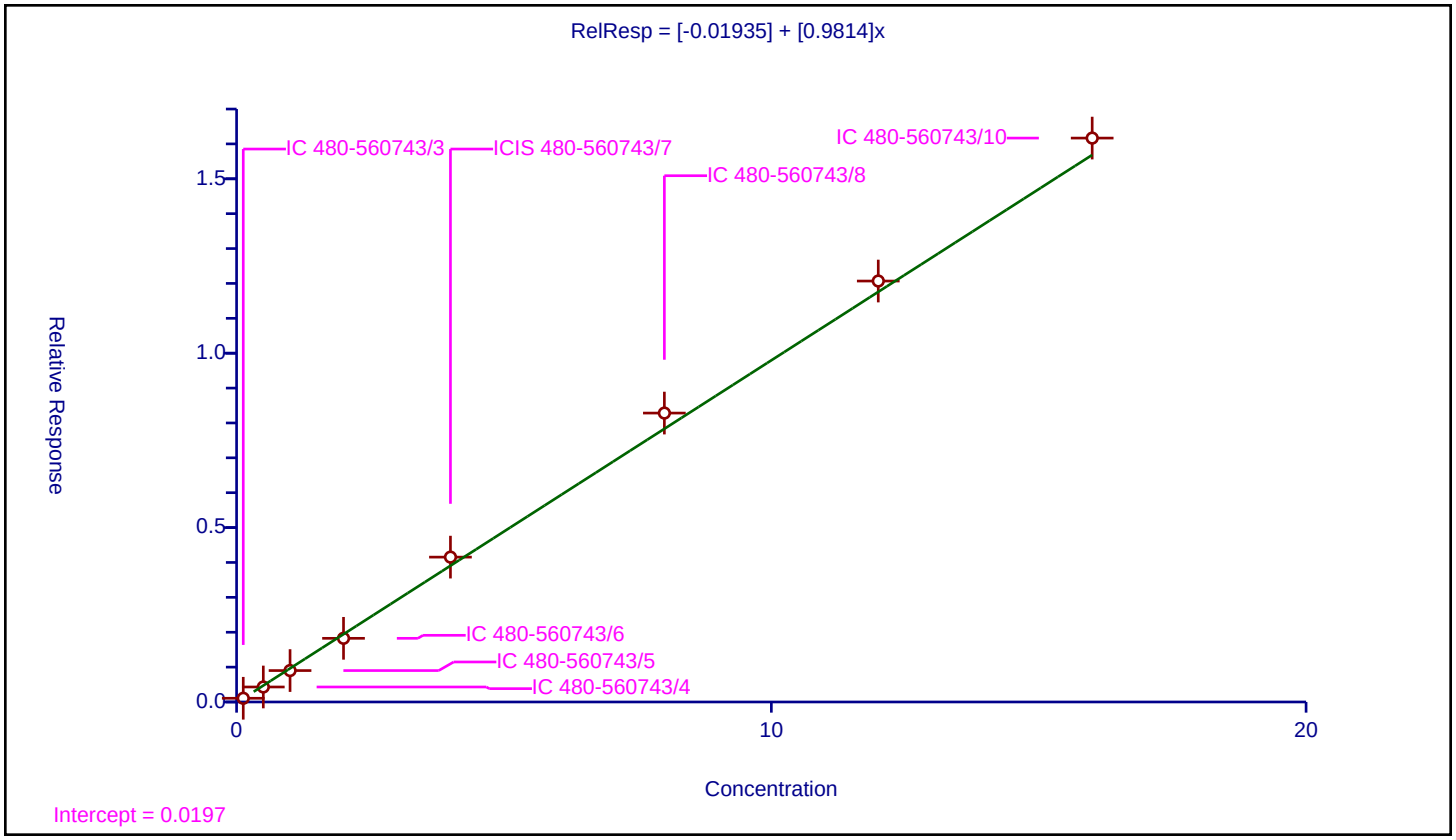
Curve Coefficients

Intercept:	-0.01935
Slope:	0.9814

Error Coefficients

Standard Error:	2010000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.106927	4.0	770959.0	0.855413	Y
2	IC 480-560743/4	0.5	0.429906	4.0	835010.0	0.859812	Y
3	IC 480-560743/5	1.0	0.901101	4.0	798006.0	0.901101	Y
4	IC 480-560743/6	2.0	1.825971	4.0	875845.0	0.912986	Y
5	ICIS 480-560743/7	4.0	4.152844	4.0	813193.0	1.038211	Y
6	IC 480-560743/8	8.0	8.282916	4.0	854034.0	1.035365	Y
7	IC 480-560743/9	12.0	12.069128	4.0	875192.0	1.005761	Y
8	IC 480-560743/10	16.0	16.166435	4.0	898490.0	1.010402	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

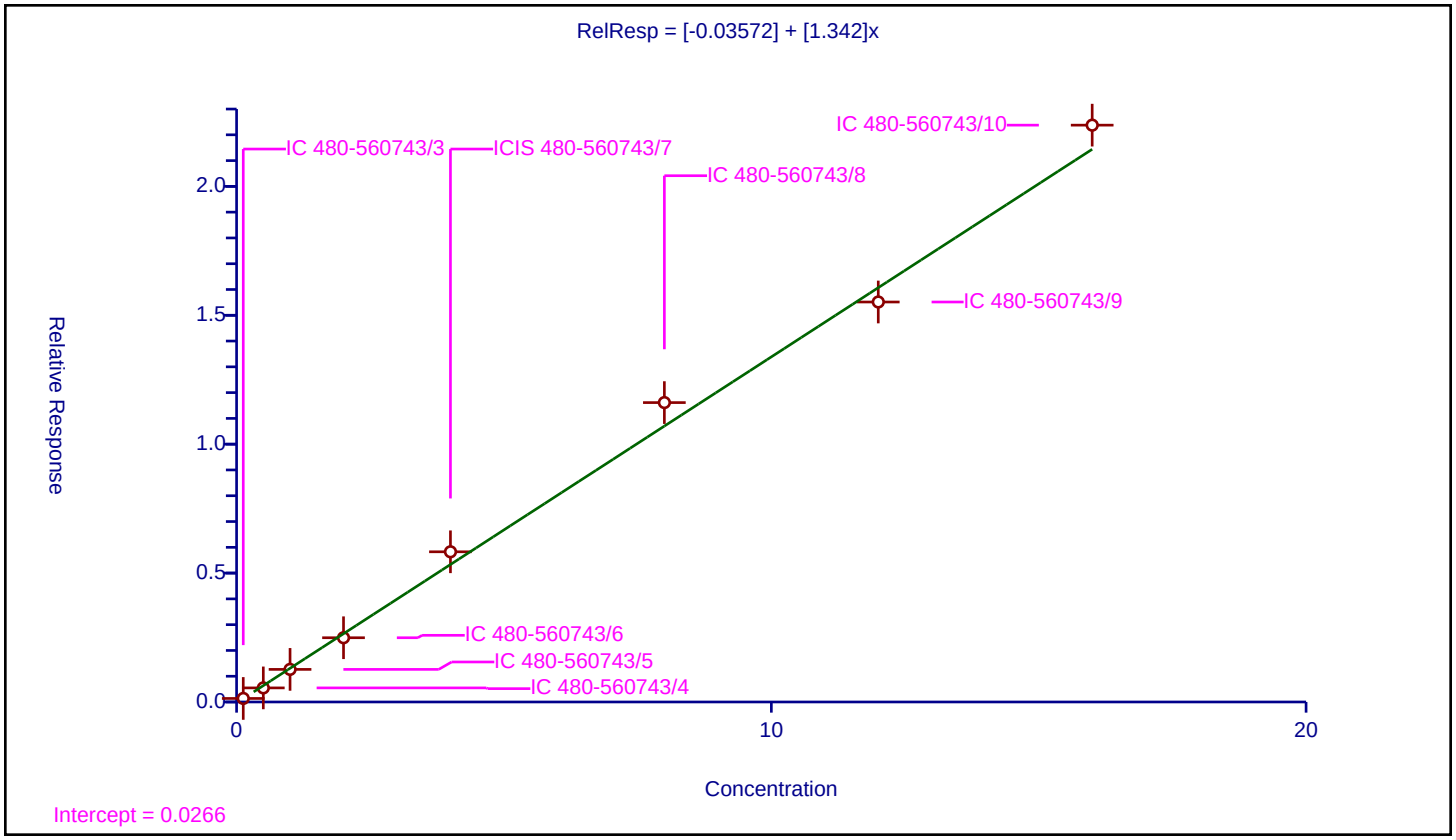
Curve Coefficients

Intercept:	-0.03572
Slope:	1.342

Error Coefficients

Standard Error:	2730000
Relative Standard Error:	8.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.138197	4.0	770959.0	1.105574	Y
2	IC 480-560743/4	0.5	0.546173	4.0	835010.0	1.092346	Y
3	IC 480-560743/5	1.0	1.264662	4.0	798006.0	1.264662	Y
4	IC 480-560743/6	2.0	2.492144	4.0	875845.0	1.246072	Y
5	ICIS 480-560743/7	4.0	5.826164	4.0	813193.0	1.456541	Y
6	IC 480-560743/8	8.0	11.613547	4.0	854034.0	1.451693	Y
7	IC 480-560743/9	12.0	15.516028	4.0	875192.0	1.293002	Y
8	IC 480-560743/10	16.0	22.373881	4.0	898490.0	1.398368	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

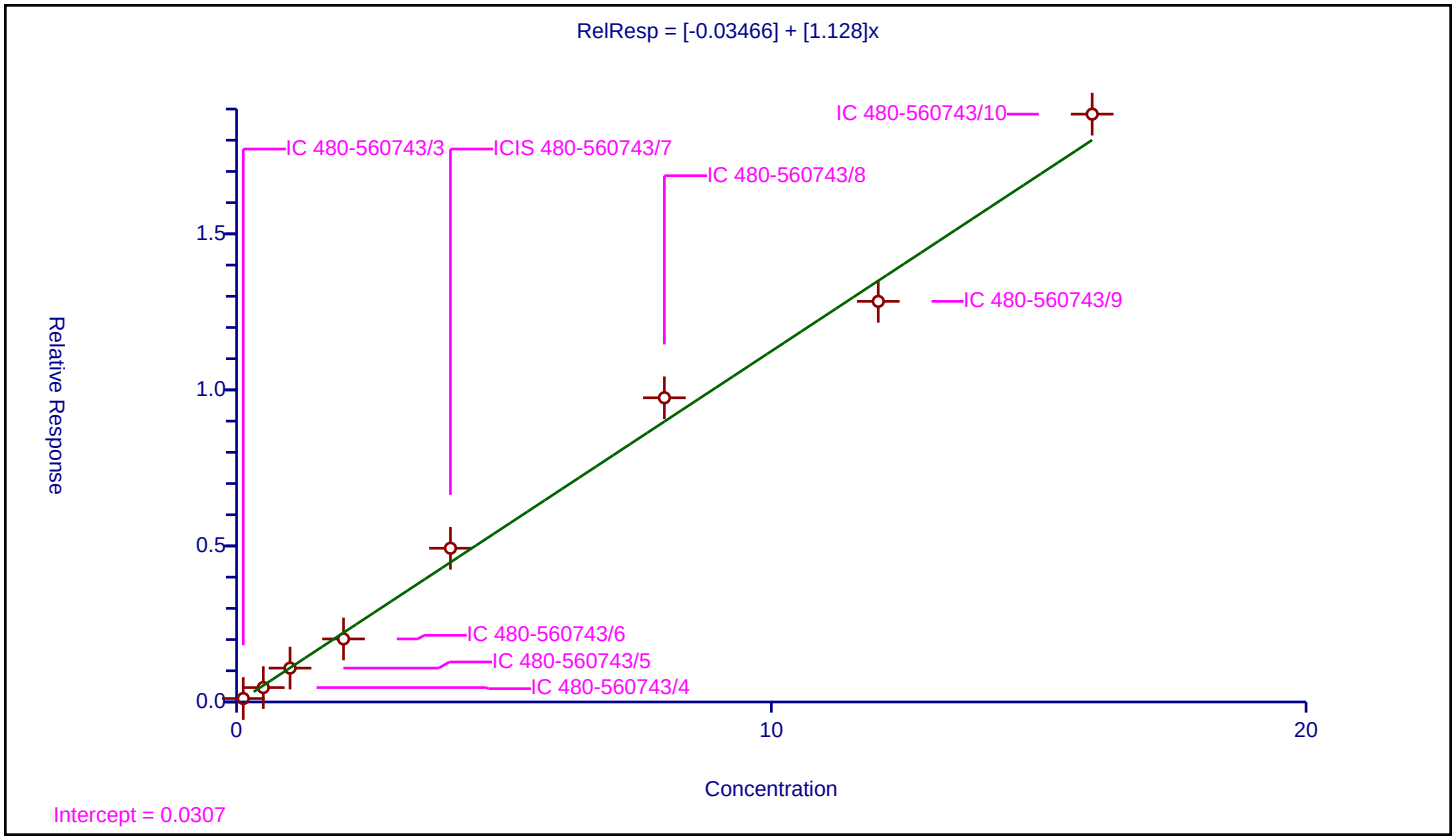
Curve Coefficients

Intercept:	-0.03466
Slope:	1.128

Error Coefficients

Standard Error:	2290000
Relative Standard Error:	8.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.110745	4.0	770959.0	0.885962	Y
2	IC 480-560743/4	0.5	0.462327	4.0	835010.0	0.924655	Y
3	IC 480-560743/5	1.0	1.085856	4.0	798006.0	1.085856	Y
4	IC 480-560743/6	2.0	2.020663	4.0	875845.0	1.010332	Y
5	ICIS 480-560743/7	4.0	4.926978	4.0	813193.0	1.231744	Y
6	IC 480-560743/8	8.0	9.747762	4.0	854034.0	1.21847	Y
7	IC 480-560743/9	12.0	12.836836	4.0	875192.0	1.069736	Y
8	IC 480-560743/10	16.0	18.836773	4.0	898490.0	1.177298	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

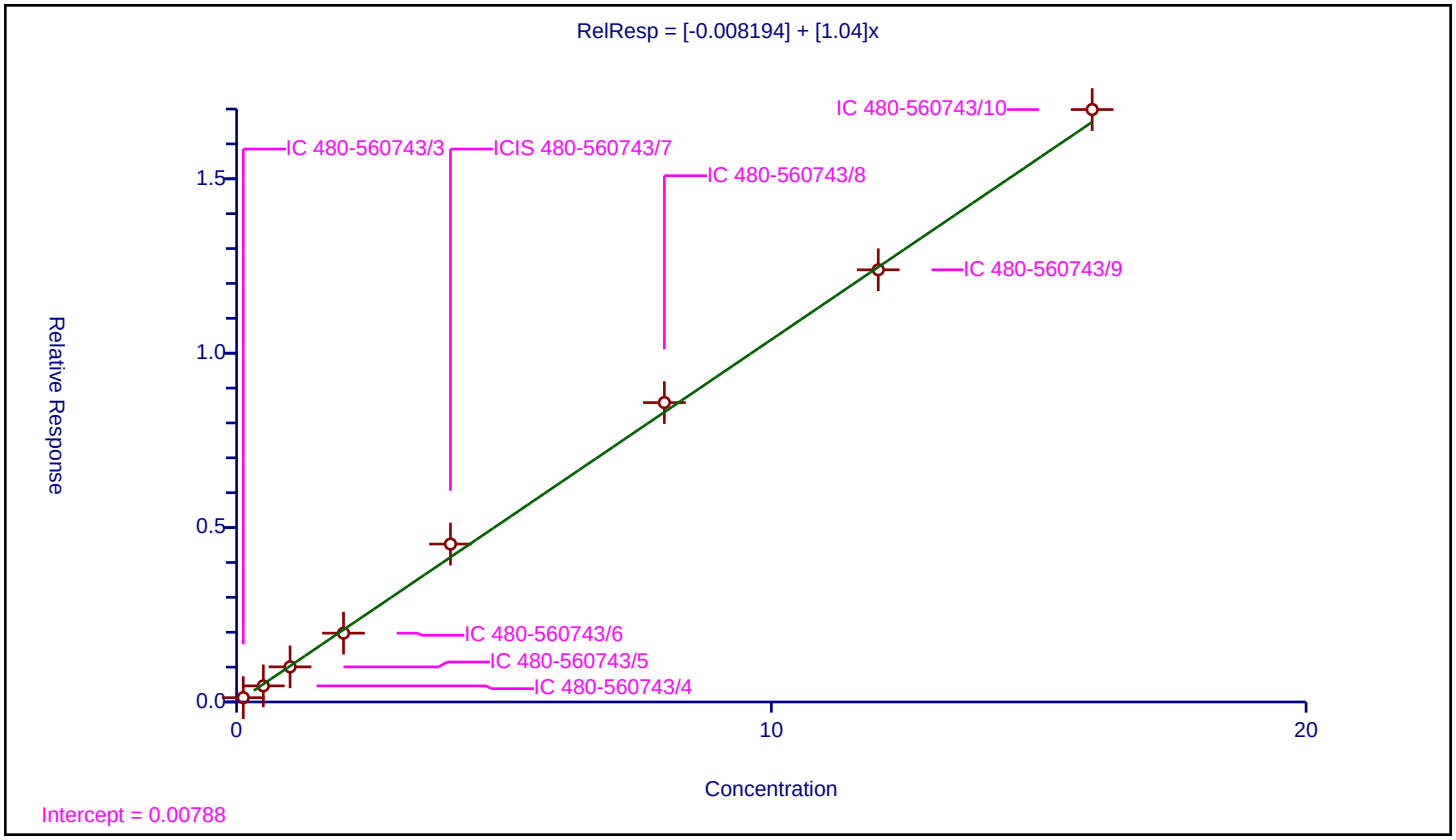
Curve Coefficients

Intercept:	-0.008194
Slope:	1.04

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-560743/3	0.125	0.125169	4.0	770959.0	1.00135	Y
2	IC 480-560743/4	0.5	0.462385	4.0	835010.0	0.92477	Y
3	IC 480-560743/5	1.0	1.007145	4.0	798006.0	1.007145	Y
4	IC 480-560743/6	2.0	1.973701	4.0	875845.0	0.98685	Y
5	ICIS 480-560743/7	4.0	4.528745	4.0	813193.0	1.132186	Y
6	IC 480-560743/8	8.0	8.584056	4.0	854034.0	1.073007	Y
7	IC 480-560743/9	12.0	12.391183	4.0	875192.0	1.032599	Y
8	IC 480-560743/10	16.0	16.9854	4.0	898490.0	1.061587	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID (1): ICIS 480-560743/7 Instrument ID (1): HP5973W

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 11/24/2020 17:22

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	14.04	25.50

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID (1): CCVIS 480-561494/3 Instrument ID (1): HP5973W

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 12/01/2020 16:53

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	14.01	23.70

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID (1): CCVIS 480-561842/3 Instrument ID (1): HP5973W

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 12/03/2020 15:34

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	13.98	27.20

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: ICV 480-560743/11 Calibration Date: 11/24/2020 19:15

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011258.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5254	0.5775	0.0100	4400	4000	9.9	30.0
N-Nitrosodimethylamine	Ave	0.6280	0.7114	0.0100	4530	4000	13.3	50.0
Pyridine	Lin2		0.7716	0.0100	7870	8000	-1.7	50.0
Benzaldehyde	Ave	0.8838	0.9680	0.0100	8760	8000	9.5	50.0
Phenol	Ave	1.519	1.523	0.8000	4010	4000	0.2	30.0
Aniline	Ave	1.685	1.775	0.0100	4210	4000	5.4	30.0
Bis(2-chloroethyl)ether	Ave	1.181	1.203	0.7000	4070	4000	1.9	30.0
2-Chlorophenol	Ave	1.316	1.465	0.8000	4450	4000	11.3	30.0
n-Decane	Ave	1.238	1.337	0.0100	4320	4000	8.1	30.0
1,3-Dichlorobenzene	Ave	1.545	1.635	0.0100	4230	4000	5.9	30.0
1,4-Dichlorobenzene	Ave	1.575	1.747	0.0100	4440	4000	10.9	30.0
Benzyl alcohol	Lin2		0.7695	0.0100	4360	4000	8.9	30.0
1,2-Dichlorobenzene	Ave	1.446	1.607	0.0100	4450	4000	11.1	30.0
2-Methylphenol	Ave	1.095	1.195	0.7000	4360	4000	9.1	30.0
bis (2-chloroisopropyl) ether	Ave	1.555	1.663	0.0100	4280	4000	6.9	30.0
Indene	Ave	0.6456	0.8018	0.0100	24800	20000	24.2	30.0
N-Nitrosodi-n-propylamine	Lin2		0.7600	0.5000	4460	4000	11.5	30.0
4-Methylphenol	Ave	1.094	1.195	0.6000	4370	4000	9.2	30.0
Acetophenone	Ave	1.578	1.799	0.0100	4560	4000	14.0	30.0
Hexachloroethane	Ave	0.5324	0.6012	0.3000	4520	4000	12.9	30.0
Nitrobenzene	Ave	0.3272	0.3698	0.2000	4520	4000	13.0	30.0
Isophorone	Ave	0.5469	0.5974	0.4000	4370	4000	9.2	30.0
2-Nitrophenol	Lin2		0.2079	0.1000	4430	4000	10.6	30.0
2,4-Dimethylphenol	Ave	0.3277	0.3313	0.2000	4040	4000	1.1	30.0
Bis(2-chloroethoxy)methane	Ave	0.3417	0.3601	0.3000	4220	4000	5.4	30.0
Benzoic acid	Lin2		0.2704	0.0100	27400	20000	37.0	50.0
2,4-Dichlorophenol	Ave	0.2780	0.3163	0.2000	4550	4000	13.8	30.0
1,2,4-Trichlorobenzene	Ave	0.3393	0.3734	0.0100	4400	4000	10.0	30.0
Naphthalene	Ave	1.036	1.136	0.7000	4380	4000	9.6	30.0
4-Chloroaniline	Ave	0.3896	0.4474	0.0100	4590	4000	14.8	30.0
2,6-Dichlorophenol	Ave	0.2858	0.3264	0.0100	4570	4000	14.2	30.0
Hexachlorobutadiene	Ave	0.2223	0.2449	0.0100	4410	4000	10.2	30.0
Caprolactam	Lin2		0.1083	0.0100	8460	8000	5.7	50.0
4-Chloro-3-methylphenol	Lin2		0.2938	0.2000	4610	4000	15.4	30.0
2-Methylnaphthalene	Ave	0.7098	0.7389	0.4000	4160	4000	4.1	30.0
1-Methylnaphthalene	Ave	0.6427	0.6930	0.0100	4310	4000	7.8	30.0
Hexachlorocyclopentadiene	Lin2		0.3453	0.0500	3740	4000	-6.6	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6414	0.6658	0.0100	4150	4000	3.8	30.0
2,4,6-Trichlorophenol	Ave	0.3721	0.3922	0.2000	4220	4000	5.4	30.0
2,4,5-Trichlorophenol	Lin2		0.4066	0.2000	3900	4000	-2.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: ICV 480-560743/11 Calibration Date: 11/24/2020 19:15

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011258.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.534	1.589	0.0100	4140	4000	3.6	30.0
2-Chloronaphthalene	Ave	1.175	1.177	0.8000	4010	4000	0.2	30.0
2-Nitroaniline	Lin2		0.3124	0.0100	4280	4000	6.9	30.0
Dimethyl phthalate	Ave	1.302	1.389	0.0100	4270	4000	6.7	30.0
1,3-Dinitrobenzene	Lin2		0.1403	0.0100	4450	4000	11.2	30.0
2,6-Dinitrotoluene	Lin2		0.3359	0.2000	4110	4000	2.6	30.0
Acenaphthylene	Ave	1.686	1.902	0.9000	4510	4000	12.8	30.0
3-Nitroaniline	Lin2		0.3377	0.0100	4140	4000	3.5	30.0
Acenaphthene	Ave	1.167	1.308	0.9000	4480	4000	12.0	30.0
2,4-Dinitrophenol	Lin1		0.1540	0.0100	8020	8000	0.2	30.0
4-Nitrophenol	Lin2		0.1780	0.0100	8900	8000	11.2	30.0
2,4-Dinitrotoluene	Lin2		0.4265	0.2000	4370	4000	9.1	30.0
Dibenzofuran	Ave	1.611	1.763	0.8000	4380	4000	9.4	30.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3588	0.0100	4650	4000	16.4	30.0
Hexadecane	Ave	0.6364	0.6999	0.0100	4400	4000	10.0	30.0
Diethyl phthalate	Ave	1.256	1.365	0.0100	4340	4000	8.6	30.0
4-Chlorophenyl phenyl ether	Ave	0.6719	0.7165	0.4000	4270	4000	6.6	30.0
Fluorene	Ave	1.298	1.432	0.9000	4410	4000	10.4	30.0
4-Nitroaniline	Lin2		0.3652	0.0100	4350	4000	8.8	30.0
4,6-Dinitro-2-methylphenol	Lin1		0.1491	0.0100	8940	8000	11.8	30.0
Diphenylamine	Ave	0.6647	0.7087	0.0100	3650	3420	6.6	30.0
N-Nitrosodiphenylamine	Ave	0.5683	0.6060	0.0100	4270	4000	6.6	30.0
1,2-Diphenylhydrazine	Ave	1.112	1.227	0.0100	4410	4000	10.3	30.0
trans-Azobenzene	Ave	0.6709	0.7226	0.0100	4310	4000	7.7	30.0
4-Bromophenyl phenyl ether	Ave	0.2411	0.2563	0.1000	4250	4000	6.3	30.0
Hexachlorobenzene	Ave	0.2554	0.2597	0.1000	4070	4000	1.7	30.0
Atrazine	Ave	0.3540	0.3565	0.0100	8060	8000	0.7	30.0
n-Octadecane	Ave	0.3858	0.3761	0.0100	3900	4000	-2.5	30.0
Pentachlorophenol	Lin1		0.1347	0.0500	7980	8000	-0.2	30.0
Phenanthrene	Ave	1.104	1.155	0.7000	4180	4000	4.6	30.0
Anthracene	Ave	1.110	1.320	0.7000	4750	4000	18.8	30.0
Carbazole	Ave	0.9492	1.106	0.0100	4660	4000	16.6	30.0
Di-n-butyl phthalate	Ave	1.163	1.274	0.0100	4380	4000	9.5	30.0
Fluoranthene	Ave	1.169	1.260	0.6000	4310	4000	7.9	30.0
Benzidine	Ave	0.5137	0.5124	0.0100	7980	8000	-0.2	50.0
Pyrene	Ave	1.243	1.338	0.6000	4310	4000	7.7	30.0
Butyl benzyl phthalate	Lin2		0.5836	0.0100	4670	4000	16.7	30.0
Bis(2-ethylhexyl) phthalate	Lin2		0.8134	0.0100	4400	4000	9.9	30.0
3,3'-Dichlorobenzidine	Ave	0.4429	0.5383	0.0100	9720	8000	21.5	50.0
Benzo[a]anthracene	Ave	1.256	1.336	0.8000	4260	4000	6.4	30.0
Chrysene	Ave	1.234	1.278	0.7000	4140	4000	3.6	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: ICV 480-560743/11 Calibration Date: 11/24/2020 19:15

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011258.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		1.322	0.0100	4730	4000	18.3	30.0
Benzo[b]fluoranthene	Lin2		1.182	0.7000	4200	4000	5.0	30.0
Benzo[k]fluoranthene	Ave	1.128	1.244	0.7000	4410	4000	10.4	30.0
Benzo[a]pyrene	Lin2		1.024	0.7000	4190	4000	4.8	30.0
Indeno[1,2,3-cd]pyrene	Lin2		1.303	0.5000	3910	4000	-2.2	30.0
Dibenz(a,h)anthracene	Lin2		1.130	0.4000	4040	4000	1.0	30.0
Benzo[g,h,i]perylene	Lin2		1.037	0.5000	4000	4000	-0.0	30.0
2-Fluorophenol (Surr)	Ave	1.198	1.297	0.0100	8670	8000	8.3	30.0
Phenol-d5 (Surr)	Ave	1.396	1.445	0.0100	8290	8000	3.6	30.0
Nitrobenzene-d5 (Surr)	Lin2		0.3456	0.0100	4330	4000	8.1	30.0
2-Fluorobiphenyl	Ave	1.392	1.367	0.0100	3930	4000	-1.7	30.0
2,4,6-Tribromophenol (Surr)	Ave	0.1101	0.1207	0.0100	8770	8000	9.6	30.0
p-Terphenyl-d14 (Surr)	Ave	1.048	0.9544	0.0100	3640	4000	-8.9	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011258.d
Lims ID: ICV L1
Client ID:
Sample Type: ICV
Inject. Date: 24-Nov-2020 19:15:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095235-011
Operator ID: PJQ Instrument ID: HP5973W
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:37:32 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 25-Nov-2020 12:19:24

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	6.220	6.220	0.000	95	248595	4.00	4.00	
* 2 Naphthalene-d8	136	7.305	7.305	0.000	99	899662	4.00	4.00	
* 3 Acenaphthene-d10	164	8.779	8.779	0.000	93	517545	4.00	4.00	
* 4 Phenanthrene-d10	188	10.024	10.024	0.000	96	879113	4.00	4.00	
* 5 Chrysene-d12	240	12.556	12.551	0.005	99	820339	4.00	4.00	
* 6 Perylene-d12	264	14.618	14.618	0.000	98	926589	4.00	4.00	
$ 7 2-Fluorophenol	112	5.071	5.072	-0.001	91	645076	8.00	8.67	
$ 8 Phenol-d5	99	5.905	5.905	0.000	99	718649	8.00	8.29	
$ 9 Nitrobenzene-d5	82	6.690	6.690	0.000	88	310943	4.00	4.33	
$ 10 2-Fluorobiphenyl	172	8.191	8.191	0.000	99	707712	4.00	3.93	
$ 11 2,4,6-Tribromophenol	330	9.441	9.442	-0.001	93	212197	8.00	8.77	
$ 12 p-Terphenyl-d14	244	11.354	11.354	0.000	100	782916	4.00	3.64	
14 1,4-Dioxane	88	3.057	3.058	-0.001	99	143552	4.00	4.40	
15 N-Nitrosodimethylamine	42	3.544	3.544	0.000	91	176845	4.00	4.53	
16 Pyridine	52	3.581	3.581	0.000	94	383656	8.00	7.87	
36 Benzaldehyde	77	5.841	5.846	-0.005	93	481300	8.00	8.76	
37 Phenol	94	5.916	5.916	0.000	99	378574	4.00	4.01	
38 Aniline	93	5.937	5.937	0.000	99	441265	4.00	4.21	
40 Bis(2-chloroethyl)ether	93	5.980	5.980	0.000	98	298989	4.00	4.07	
41 2-Chlorophenol	128	6.044	6.049	-0.005	96	364171	4.00	4.45	
43 n-Decane	57	6.060	6.060	0.000	92	332448	4.00	4.32	
44 1,3-Dichlorobenzene	146	6.172	6.172	0.000	99	406549	4.00	4.23	
45 1,4-Dichlorobenzene	146	6.236	6.236	0.000	96	434373	4.00	4.44	
46 Benzyl alcohol	108	6.338	6.338	0.000	95	191302	4.00	4.36	
47 1,2-Dichlorobenzene	146	6.370	6.370	0.000	98	399533	4.00	4.45	
49 2-Methylphenol	108	6.428	6.428	0.000	95	297003	4.00	4.36	
50 2,2'-oxybis[1-chloropropane]	45	6.439	6.439	0.000	93	413421	4.00	4.28	
48 Indene	115	6.444	6.445	0.000	91	3606624	20.0	24.8	
55 N-Nitrosodi-n-propylamine	70	6.551	6.551	0.000	91	188932	4.00	4.46	
56 4-Methylphenol	108	6.557	6.557	0.000	96	297011	4.00	4.37	
53 Acetophenone	105	6.557	6.557	0.000	89	447295	4.00	4.56	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.658	6.664	-0.006	94	149445	4.00	4.52	
61 Nitrobenzene	77	6.706	6.706	0.000	87	332677	4.00	4.52	
63 Isophorone	82	6.904	6.904	0.000	98	537471	4.00	4.37	
67 2-Nitrophenol	139	6.979	6.979	0.000	92	186997	4.00	4.43	
68 2,4-Dimethylphenol	107	7.000	7.000	0.000	94	298063	4.00	4.04	
71 Bis(2-chloroethoxy)methane	93	7.064	7.070	-0.006	99	323978	4.00	4.22	
72 Benzoic acid	105	7.118	7.107	0.011	89	1216182	20.0	27.4	
74 2,4-Dichlorophenol	162	7.187	7.187	0.000	91	284593	4.00	4.55	
75 1,2,4-Trichlorobenzene	180	7.256	7.257	-0.001	94	335911	4.00	4.40	
76 Naphthalene	128	7.326	7.326	0.000	97	1022000	4.00	4.38	
78 4-Chloroaniline	127	7.358	7.358	0.000	97	402480	4.00	4.59	
79 2,6-Dichlorophenol	162	7.369	7.369	0.000	97	293646	4.00	4.57	
81 Hexachlorobutadiene	225	7.422	7.422	0.000	95	220306	4.00	4.41	
84 Caprolactam	113	7.657	7.652	0.005	80	194821	8.00	8.46	
87 4-Chloro-3-methylphenol	107	7.759	7.759	0.000	95	264281	4.00	4.61	
89 2-Methylnaphthalene	142	7.903	7.903	0.000	92	664776	4.00	4.16	
91 1-Methylnaphthalene	142	7.988	7.988	0.000	93	623460	4.00	4.31	
93 Hexachlorocyclopentadiene	237	8.036	8.036	0.000	94	178708	4.00	3.74	
92 1,2,4,5-Tetrachlorobenzene	216	8.047	8.047	0.000	96	344565	4.00	4.15	
94 2,4,6-Trichlorophenol	196	8.133	8.133	0.000	91	202969	4.00	4.22	
95 2,4,5-Trichlorophenol	196	8.170	8.175	-0.005	95	210424	4.00	3.90	
97 1,1'-Biphenyl	154	8.282	8.282	0.000	94	822253	4.00	4.14	
98 2-Chloronaphthalene	162	8.314	8.314	0.000	96	609290	4.00	4.01	
100 2-Nitroaniline	65	8.384	8.384	0.000	91	161695	4.00	4.28	
104 Dimethyl phthalate	163	8.512	8.512	0.000	99	718808	4.00	4.27	
105 1,3-Dinitrobenzene	168	8.555	8.560	-0.005	91	126180	4.00	4.45	
106 2,6-Dinitrotoluene	165	8.576	8.576	0.000	92	173859	4.00	4.11	
107 Acenaphthylene	152	8.661	8.662	-0.001	98	984445	4.00	4.51	
108 3-Nitroaniline	138	8.726	8.726	0.000	96	174767	4.00	4.14	
109 Acenaphthene	153	8.806	8.806	0.000	95	676732	4.00	4.48	
110 2,4-Dinitrophenol	184	8.811	8.816	-0.005	86	159364	8.00	8.02	
111 4-Nitrophenol	109	8.859	8.859	0.000	89	184274	8.00	8.90	
113 2,4-Dinitrotoluene	165	8.918	8.918	0.000	95	220722	4.00	4.37	
114 Dibenzofuran	168	8.950	8.950	0.000	96	912681	4.00	4.38	
117 2,3,4,6-Tetrachlorophenol	232	9.051	9.052	-0.001	71	185689	4.00	4.65	
120 Hexadecane	57	9.089	9.089	0.000	94	362227	4.00	4.40	
119 Diethyl phthalate	149	9.094	9.094	0.000	98	706213	4.00	4.34	
122 4-Chlorophenyl phenyl ether	204	9.212	9.212	0.000	91	370807	4.00	4.27	
125 4-Nitroaniline	138	9.238	9.238	0.000	90	189006	4.00	4.35	
123 Fluorene	166	9.233	9.238	-0.005	94	741295	4.00	4.41	
126 4,6-Dinitro-2-methylphenol	198	9.265	9.265	0.000	92	262087	8.00	8.94	
128 Diphenylamine	169	9.308	9.308	0.000	94	532705	3.42	3.65	
129 N-Nitrosodiphenylamine	169	9.308	9.308	0.000	100	532705	4.00	4.27	
130 1,2-Diphenylhydrazine	77	9.345	9.345	0.000	98	635257	4.00	4.41	
131 Azobenzene	77	9.345	9.345	0.000	98	635257	4.00	4.31	
137 4-Bromophenyl phenyl ether	248	9.623	9.623	0.000	63	225352	4.00	4.25	
138 Hexachlorobenzene	284	9.709	9.709	0.000	94	228339	4.00	4.07	
141 Atrazine	200	9.735	9.730	0.005	95	368996	8.00	8.06	
146 n-Octadecane	57	9.847	9.853	-0.006	94	330630	4.00	3.90	
143 Pentachlorophenol	266	9.863	9.864	-0.001	93	236865	8.00	7.98	M
149 Phenanthrene	178	10.045	10.045	0.000	97	1015070	4.00	4.18	
150 Anthracene	178	10.088	10.088	0.000	97	1159993	4.00	4.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.211	10.211	0.000	96	972737	4.00	4.66	
154 Di-n-butyl phthalate	149	10.440	10.441	0.000	100	1119639	4.00	4.38	
161 Fluoranthene	202	11.044	11.044	0.000	97	1108048	4.00	4.31	
164 Benzidine	184	11.130	11.130	0.000	99	840735	8.00	7.98	
165 Pyrene	202	11.252	11.253	-0.001	98	1097533	4.00	4.31	
172 Butyl benzyl phthalate	149	11.808	11.808	0.000	96	478722	4.00	4.67	
180 Bis(2-ethylhexyl) phthalate	149	12.449	12.455	-0.006	94	667223	4.00	4.40	
177 3,3'-Dichlorobenzidine	252	12.476	12.476	0.000	73	883156	8.00	9.72	
179 Benzo[a]anthracene	228	12.540	12.540	0.000	98	1095972	4.00	4.26	
181 Chrysene	228	12.588	12.588	0.000	96	1048501	4.00	4.14	
184 Di-n-octyl phthalate	149	13.325	13.325	0.000	99	1084354	4.00	4.73	
186 Benzo[b]fluoranthene	252	14.036	14.036	0.000	96	1095293	4.00	4.20	
187 Benzo[k]fluoranthene	252	14.073	14.073	0.000	99	1153138	4.00	4.41	
189 Benzo[a]pyrene	252	14.533	14.533	0.000	76	948642	4.00	4.19	
193 Indeno[1,2,3-cd]pyrene	276	16.263	16.264	-0.001	98	1207549	4.00	3.91	
194 Dibenz(a,h)anthracene	278	16.274	16.269	0.005	90	1047458	4.00	4.04	
195 Benzo[g,h,i]perylene	276	16.712	16.712	0.000	98	961071	4.00	4.00	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MB_L1SSLV_WRK_00036	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00204	Amount Added: 20.00	Units: uL	Run Reagent

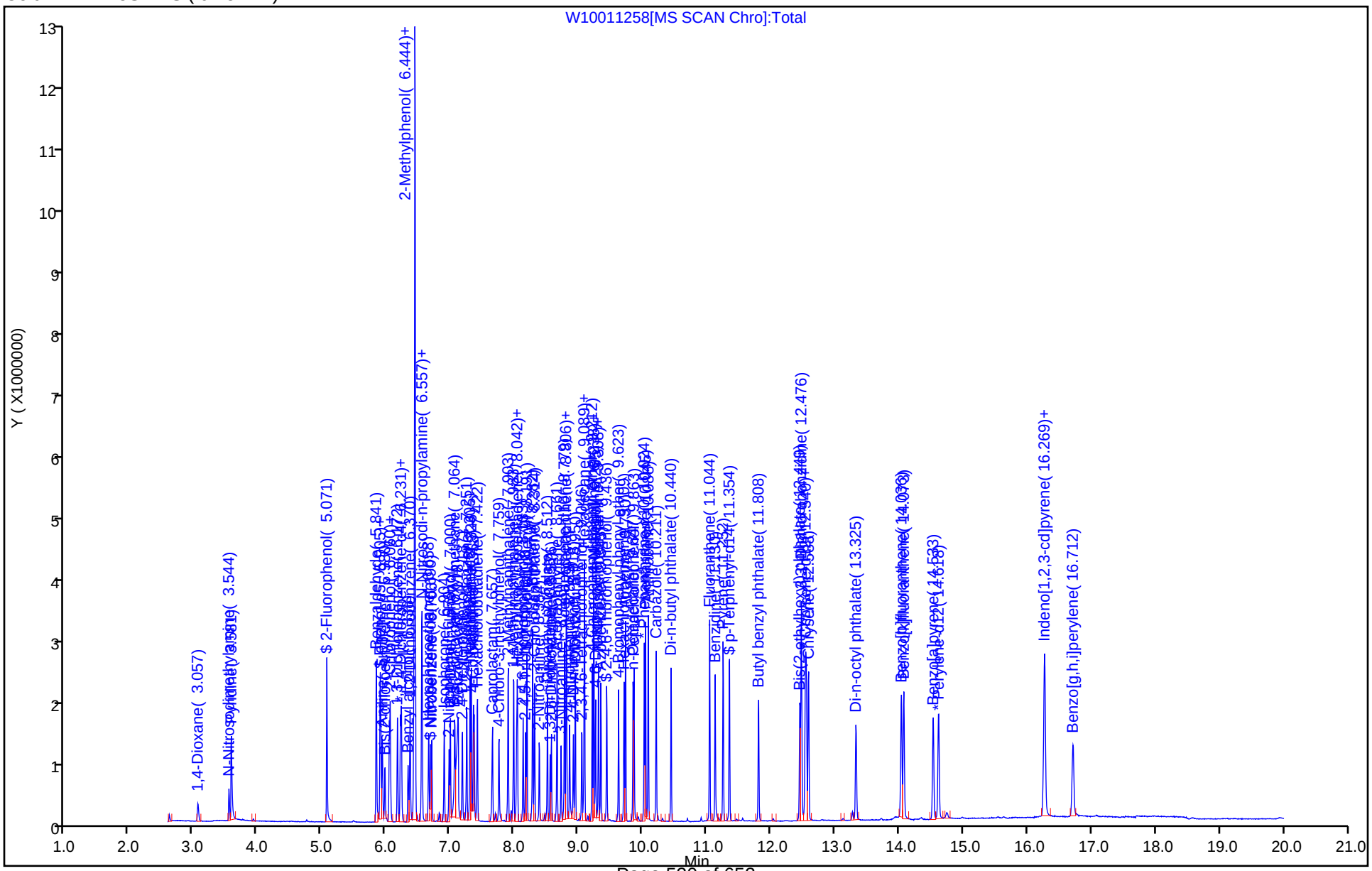
Report Date: 25-Nov-2020 12:37:40 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011258.d

Injection Date:	24-Nov-2020 19:15:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	ICV L1			Worklist Smp#:	11
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

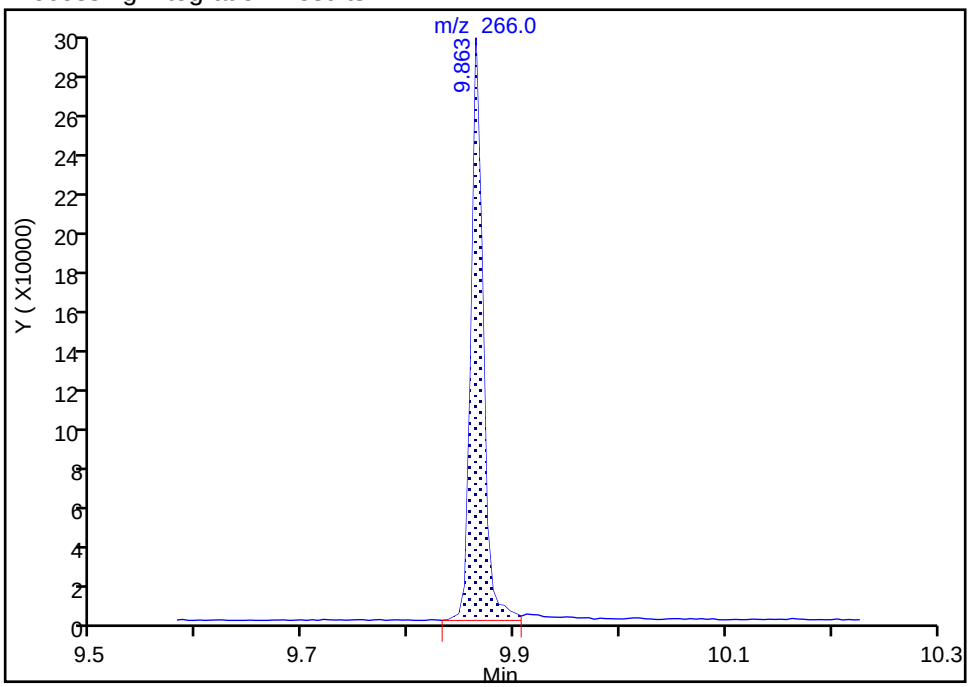
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011258.d
Injection Date: 24-Nov-2020 19:15:30 Instrument ID: HP5973W
Lims ID: ICV L1
Client ID:
Operator ID: PJQ ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

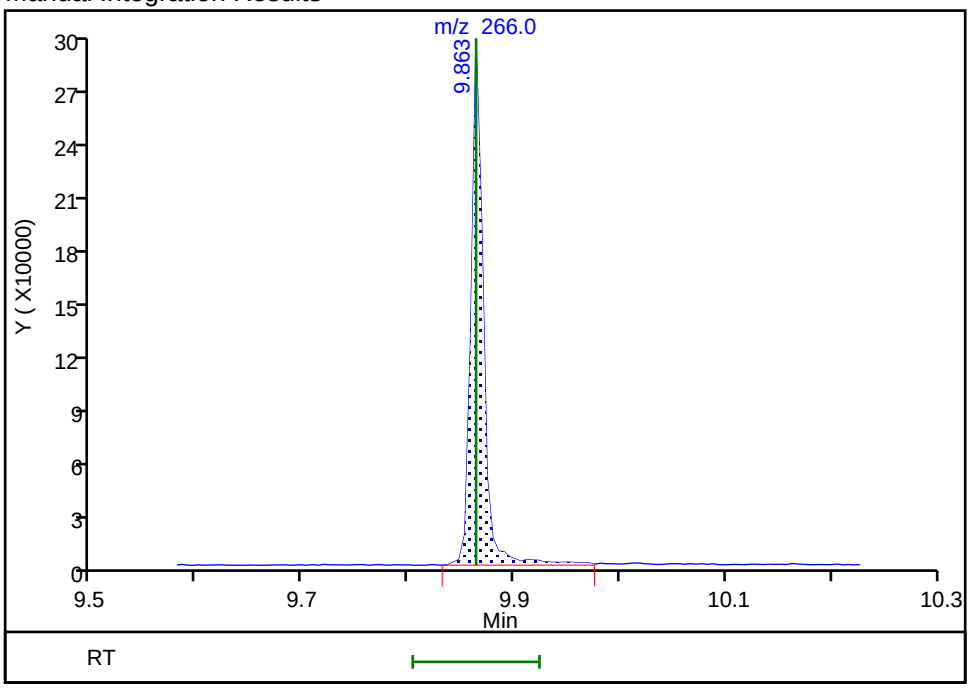
Processing Integration Results

RT: 9.86
Area: 230124
Amount: 7.801943
Amount Units: ng/uL



Manual Integration Results

RT: 9.86
Area: 236865
Amount: 7.984049
Amount Units: ng/uL



Reviewer: quirkp, 25-Nov-2020 12:15:11
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561494/3 Calibration Date: 12/01/2020 16:53

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011407.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5254	0.4662	0.0100	3550	4000	-11.3	20.0
N-Nitrosodimethylamine	Ave	0.6280	0.5612	0.0100	3570	4000	-10.7	50.0
Pyridine	Lin2		0.7009	0.0100	7160	8000	-10.5	50.0
Benzaldehyde	Ave	0.8838	0.8999	0.0100	8150	8000	1.8	50.0
Phenol	Ave	1.519	1.551	0.8000	4080	4000	2.1	20.0
Aniline	Ave	1.685	1.720	0.0100	4080	4000	2.1	20.0
Bis(2-chloroethyl)ether	Ave	1.181	1.146	0.7000	3880	4000	-3.0	20.0
2-Chlorophenol	Ave	1.316	1.367	0.8000	4150	4000	3.8	20.0
n-Decane	Ave	1.238	1.181	0.0100	3820	4000	-4.6	20.0
1,3-Dichlorobenzene	Ave	1.545	1.596	0.0100	4130	4000	3.3	20.0
1,4-Dichlorobenzene	Ave	1.575	1.607	0.0100	4080	4000	2.0	20.0
Benzyl alcohol	Lin2		0.7060	0.0100	4010	4000	0.3	20.0
1,2-Dichlorobenzene	Ave	1.446	1.529	0.0100	4230	4000	5.7	20.0
2-Methylphenol	Ave	1.095	1.238	0.7000	4520	4000	13.1	20.0
bis (2-chloroisopropyl) ether	Ave	1.555	1.713	0.0100	4410	4000	10.1	20.0
Indene	Ave	0.6456	0.6542	0.0100	20300	20000	1.3	20.0
N-Nitrosodi-n-propylamine	Lin2		0.6826	0.5000	4020	4000	0.4	20.0
4-Methylphenol	Ave	1.094	1.235	0.6000	4510	4000	12.8	20.0
Acetophenone	Ave	1.578	1.700	0.0100	4310	4000	7.7	20.0
Hexachloroethane	Ave	0.5324	0.5520	0.3000	4150	4000	3.7	20.0
Nitrobenzene	Ave	0.3272	0.3115	0.2000	3810	4000	-4.8	20.0
Isophorone	Ave	0.5469	0.5478	0.4000	4010	4000	0.2	20.0
2-Nitrophenol	Lin2		0.1955	0.1000	4170	4000	4.2	20.0
2,4-Dimethylphenol	Ave	0.3277	0.3118	0.2000	3810	4000	-4.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3417	0.3542	0.3000	4150	4000	3.7	20.0
Benzoic acid	Lin2		0.1844	0.0100	19100	20000	-4.3	50.0
2,4-Dichlorophenol	Ave	0.2780	0.2963	0.2000	4260	4000	6.6	20.0
1,2,4-Trichlorobenzene	Ave	0.3393	0.3541	0.0100	4170	4000	4.4	20.0
Naphthalene	Ave	1.036	1.065	0.7000	4110	4000	2.7	20.0
4-Chloroaniline	Ave	0.3896	0.4203	0.0100	4320	4000	7.9	20.0
2,6-Dichlorophenol	Ave	0.2858	0.3068	0.0100	4290	4000	7.3	20.0
Hexachlorobutadiene	Ave	0.2223	0.2173	0.0100	3910	4000	-2.3	20.0
Caprolactam	Lin2		0.1007	0.0100	7890	8000	-1.4	50.0
4-Chloro-3-methylphenol	Lin2		0.2516	0.2000	3960	4000	-1.0	20.0
2-Methylnaphthalene	Ave	0.7098	0.7392	0.4000	4170	4000	4.1	20.0
1-Methylnaphthalene	Ave	0.6427	0.6832	0.0100	4250	4000	6.3	20.0
Hexachlorocyclopentadiene	Lin2		0.3398	0.0500	3680	4000	-8.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6414	0.6497	0.0100	4050	4000	1.3	20.0
2,4,6-Trichlorophenol	Ave	0.3721	0.3811	0.2000	4100	4000	2.4	20.0
2,4,5-Trichlorophenol	Lin2		0.4171	0.2000	4000	4000	-0.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561494/3 Calibration Date: 12/01/2020 16:53

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011407.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.534	1.559	0.0100	4070	4000	1.7	20.0
2-Chloronaphthalene	Ave	1.175	1.156	0.8000	3940	4000	-1.6	20.0
2-Nitroaniline	Lin2		0.2539	0.0100	3510	4000	-12.3	20.0
Dimethyl phthalate	Ave	1.302	1.259	0.0100	3870	4000	-3.3	20.0
1,3-Dinitrobenzene	Lin2		0.1288	0.0100	4100	4000	2.6	20.0
2,6-Dinitrotoluene	Lin2		0.3193	0.2000	3910	4000	-2.3	20.0
Acenaphthylene	Ave	1.686	1.737	0.9000	4120	4000	3.0	20.0
3-Nitroaniline	Lin2		0.3275	0.0100	4020	4000	0.4	20.0
Acenaphthene	Ave	1.167	1.230	0.9000	4220	4000	5.4	20.0
2,4-Dinitrophenol	Lin1		0.0971	0.0100	5690	8000	-28.8*	20.0
4-Nitrophenol	Lin2		0.1312	0.0100	6730	8000	-15.9	20.0
2,4-Dinitrotoluene	Lin2		0.3977	0.2000	4080	4000	1.9	20.0
Dibenzofuran	Ave	1.611	1.713	0.8000	4250	4000	6.3	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2615	0.0100	3430	4000	-14.3	20.0
Hexadecane	Ave	0.6364	0.6541	0.0100	4110	4000	2.8	20.0
Diethyl phthalate	Ave	1.256	1.277	0.0100	4070	4000	1.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.6719	0.6722	0.4000	4000	4000	0.0	20.0
Fluorene	Ave	1.298	1.381	0.9000	4260	4000	6.4	20.0
4-Nitroaniline	Lin2		0.3410	0.0100	4070	4000	1.8	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1052	0.0100	6540	8000	-18.2	20.0
Diphenylamine	Ave	0.6647	0.6457	0.0100	3320	3420	-2.9	20.0
N-Nitrosodiphenylamine	Ave	0.5683	0.5521	0.0100	3890	4000	-2.9	20.0
1,2-Diphenylhydrazine	Ave	1.112	1.124	0.0100	4040	4000	1.0	20.0
trans-Azobenzene	Ave	0.6709	0.6430	0.0100	3830	4000	-4.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2411	0.2384	0.1000	3950	4000	-1.1	20.0
Hexachlorobenzene	Ave	0.2554	0.2366	0.1000	3710	4000	-7.3	20.0
Atrazine	Ave	0.3540	0.3786	0.0100	8550	8000	6.9	20.0
n-Octadecane	Ave	0.3858	0.3613	0.0100	3750	4000	-6.3	20.0
Pentachlorophenol	Lin1		0.0480*	0.0500	3860	8000	-51.7*	20.0
Phenanthrene	Ave	1.104	1.124	0.7000	4070	4000	1.8	20.0
Anthracene	Ave	1.110	1.102	0.7000	3970	4000	-0.8	20.0
Carbazole	Ave	0.9492	0.9628	0.0100	4060	4000	1.4	20.0
Di-n-butyl phthalate	Ave	1.163	1.134	0.0100	3900	4000	-2.5	20.0
Fluoranthene	Ave	1.169	1.187	0.6000	4060	4000	1.5	20.0
Benzidine	Ave	0.5137	0.5426	0.0100	8450	8000	5.6	50.0
Pyrene	Ave	1.243	1.319	0.6000	4250	4000	6.2	20.0
Butyl benzyl phthalate	Lin2		0.5041	0.0100	4040	4000	1.0	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.7373	0.0100	4000	4000	-0.1	20.0
3,3'-Dichlorobenzidine	Ave	0.4429	0.4466	0.0100	8070	8000	0.8	50.0
Benzo[a]anthracene	Ave	1.256	1.251	0.8000	3980	4000	-0.4	20.0
Chrysene	Ave	1.234	1.212	0.7000	3930	4000	-1.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561494/3 Calibration Date: 12/01/2020 16:53

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011407.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		1.113	0.0100	4000	4000	0.1	20.0
Benzo[b]fluoranthene	Lin2		1.247	0.7000	4430	4000	10.8	20.0
Benzo[k]fluoranthene	Ave	1.128	1.248	0.7000	4430	4000	10.6	20.0
Benzo[a]pyrene	Lin2		1.054	0.7000	4320	4000	7.9	20.0
Indeno[1,2,3-cd]pyrene	Lin2		1.426	0.5000	4280	4000	6.9	20.0
Dibenz(a,h)anthracene	Lin2		1.188	0.4000	4250	4000	6.1	20.0
Benzo[g,h,i]perylene	Lin2		1.166	0.5000	4490	4000	12.3	20.0
2-Fluorophenol (Surr)	Ave	1.198	1.195	0.0100	3990	4000	-0.3	20.0
Phenol-d5 (Surr)	Ave	1.396	1.404	0.0100	4020	4000	0.6	20.0
Nitrobenzene-d5 (Surr)	Lin2		0.3031	0.0100	3800	4000	-5.0	20.0
2-Fluorobiphenyl	Ave	1.392	1.393	0.0100	4000	4000	0.1	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1101	0.0920	0.0100	3340	4000	-16.4	20.0
p-Terphenyl-d14 (Surr)	Ave	1.048	1.027	0.0100	3920	4000	-2.0	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011407.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Dec-2020 16:53:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 01-Dec-2020 17:16:15 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: quirkp Date: 01-Dec-2020 17:16:15

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	6.215	6.215	0.000	93	273218	4.00	4.00	
* 2 Naphthalene-d8	136	7.299	7.299	0.000	99	1007751	4.00	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	574123	4.00	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	1003155	4.00	4.00	
* 5 Chrysene-d12	240	12.540	12.540	0.000	99	918427	4.00	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	865430	4.00	4.00	
$ 7 2-Fluorophenol	112	5.072	5.072	0.000	88	326370	4.00	3.99	
$ 8 Phenol-d5	99	5.900	5.900	0.000	98	383560	4.00	4.02	
$ 9 Nitrobenzene-d5	82	6.685	6.685	0.000	87	305450	4.00	3.80	
$ 10 2-Fluorobiphenyl	172	8.186	8.186	0.000	99	799775	4.00	4.00	
$ 11 2,4,6-Tribromophenol	330	9.431	9.431	0.000	92	92287	4.00	3.34	
$ 12 p-Terphenyl-d14	244	11.338	11.338	0.000	98	942952	4.00	3.92	
14 1,4-Dioxane	88	3.063	3.063	0.000	97	127377	4.00	3.55	
15 N-Nitrosodimethylamine	42	3.549	3.549	0.000	90	153317	4.00	3.57	
16 Pyridine	52	3.581	3.581	0.000	93	382989	8.00	7.16	
36 Benzaldehyde	77	5.835	5.835	0.000	93	491759	8.00	8.15	
37 Phenol	94	5.910	5.910	0.000	99	423804	4.00	4.08	
38 Aniline	93	5.932	5.932	0.000	98	469850	4.00	4.08	
40 Bis(2-chloroethyl)ether	93	5.969	5.969	0.000	97	313046	4.00	3.88	
41 2-Chlorophenol	128	6.044	6.044	0.000	93	373440	4.00	4.15	
43 n-Decane	57	6.055	6.055	0.000	93	322659	4.00	3.82	
44 1,3-Dichlorobenzene	146	6.167	6.167	0.000	98	435926	4.00	4.13	
45 1,4-Dichlorobenzene	146	6.225	6.225	0.000	97	439173	4.00	4.08	
46 Benzyl alcohol	108	6.332	6.332	0.000	95	192895	4.00	4.01	
47 1,2-Dichlorobenzene	146	6.364	6.364	0.000	99	417618	4.00	4.23	
49 2-Methylphenol	108	6.423	6.423	0.000	95	338368	4.00	4.52	
50 2,2'-oxybis[1-chloropropane]	45	6.428	6.428	0.000	93	467981	4.00	4.41	
48 Indene	115	6.439	6.439	0.000	91	3296361	20.0	20.3	
55 N-Nitrosodi-n-propylamine	70	6.541	6.541	0.000	92	186502	4.00	4.02	
56 4-Methylphenol	108	6.551	6.551	0.000	92	337356	4.00	4.51	
53 Acetophenone	105	6.551	6.551	0.000	92	464547	4.00	4.31	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.653	6.653	0.000	93	150827	4.00	4.15	
61 Nitrobenzene	77	6.701	6.701	0.000	85	313957	4.00	3.81	
63 Isophorone	82	6.893	6.893	0.000	98	552096	4.00	4.01	
67 2-Nitrophenol	139	6.973	6.973	0.000	87	197015	4.00	4.17	
68 2,4-Dimethylphenol	107	6.995	6.995	0.000	91	314192	4.00	3.81	
71 Bis(2-chloroethoxy)methane	93	7.059	7.059	0.000	98	356908	4.00	4.15	
72 Benzoic acid	105	7.102	7.102	0.000	88	929326	20.0	19.1	a
74 2,4-Dichlorophenol	162	7.176	7.176	0.000	90	298619	4.00	4.26	
75 1,2,4-Trichlorobenzene	180	7.246	7.246	0.000	94	356873	4.00	4.17	
76 Naphthalene	128	7.315	7.315	0.000	97	1072753	4.00	4.11	
78 4-Chloroaniline	127	7.353	7.353	0.000	97	423557	4.00	4.32	
79 2,6-Dichlorophenol	162	7.363	7.363	0.000	97	309181	4.00	4.29	
81 Hexachlorobutadiene	225	7.411	7.411	0.000	94	218945	4.00	3.91	
84 Caprolactam	113	7.646	7.646	0.000	82	202881	8.00	7.89	
87 4-Chloro-3-methylphenol	107	7.748	7.748	0.000	93	253590	4.00	3.96	
89 2-Methylnaphthalene	142	7.892	7.892	0.000	92	744975	4.00	4.17	
91 1-Methylnaphthalene	142	7.978	7.978	0.000	93	688470	4.00	4.25	
93 Hexachlorocyclopentadiene	237	8.026	8.026	0.000	94	195101	4.00	3.68	
92 1,2,4,5-Tetrachlorobenzene	216	8.036	8.036	0.000	96	372990	4.00	4.05	
94 2,4,6-Trichlorophenol	196	8.127	8.127	0.000	90	218781	4.00	4.10	
95 2,4,5-Trichlorophenol	196	8.165	8.165	0.000	96	239481	4.00	4.00	
97 1,1'-Biphenyl	154	8.272	8.272	0.000	95	895151	4.00	4.07	
98 2-Chloronaphthalene	162	8.304	8.304	0.000	95	663964	4.00	3.94	
100 2-Nitroaniline	65	8.378	8.378	0.000	92	145771	4.00	3.51	
104 Dimethyl phthalate	163	8.507	8.507	0.000	99	722774	4.00	3.87	
105 1,3-Dinitrobenzene	168	8.549	8.549	0.000	98	129832	4.00	4.10	
106 2,6-Dinitrotoluene	165	8.565	8.565	0.000	91	183304	4.00	3.91	
107 Acenaphthylene	152	8.656	8.656	0.000	98	997039	4.00	4.12	
108 3-Nitroaniline	138	8.720	8.720	0.000	92	188026	4.00	4.02	
109 Acenaphthene	153	8.795	8.795	0.000	94	706363	4.00	4.22	
110 2,4-Dinitrophenol	184	8.806	8.806	0.000	90	111544	8.00	5.69	
111 4-Nitrophenol	109	8.854	8.854	0.000	83	150657	8.00	6.73	
113 2,4-Dinitrotoluene	165	8.907	8.907	0.000	94	228303	4.00	4.08	
114 Dibenzofuran	168	8.939	8.939	0.000	97	983261	4.00	4.25	
117 2,3,4,6-Tetrachlorophenol	232	9.041	9.041	0.000	70	150105	4.00	3.43	
120 Hexadecane	57	9.078	9.078	0.000	93	375533	4.00	4.11	
119 Diethyl phthalate	149	9.084	9.084	0.000	99	733065	4.00	4.07	
122 4-Chlorophenyl phenyl ether	204	9.201	9.201	0.000	89	385914	4.00	4.00	
123 Fluorene	166	9.228	9.228	0.000	94	792973	4.00	4.26	
125 4-Nitroaniline	138	9.233	9.233	0.000	95	195777	4.00	4.07	
126 4,6-Dinitro-2-methylphenol	198	9.255	9.255	0.000	95	210998	8.00	6.54	
129 N-Nitrosodiphenylamine	169	9.297	9.297	0.000	100	553800	4.00	3.89	
128 Diphenylamine	169	9.297	9.297	0.000	94	553800	3.42	3.32	
130 1,2-Diphenylhydrazine	77	9.335	9.335	0.000	98	645073	4.00	4.04	
131 Azobenzene	77	9.335	9.335	0.000	97	645073	4.00	3.83	
137 4-Bromophenyl phenyl ether	248	9.612	9.612	0.000	62	239105	4.00	3.95	
138 Hexachlorobenzene	284	9.698	9.698	0.000	94	237361	4.00	3.71	
141 Atrazine	200	9.725	9.725	0.000	95	434704	8.00	8.55	
146 n-Octadecane	57	9.837	9.837	0.000	94	362480	4.00	3.75	
143 Pentachlorophenol	266	9.858	9.858	0.000	93	96217	8.00	3.86	M
149 Phenanthrene	178	10.034	10.034	0.000	97	1127222	4.00	4.07	
150 Anthracene	178	10.077	10.077	0.000	97	1105523	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
151 Carbazole	167	10.200	10.200	0.000	95	965828	4.00	4.06	
154 Di-n-butyl phthalate	149	10.435	10.435	0.000	100	1137788	4.00	3.90	
161 Fluoranthene	202	11.033	11.033	0.000	97	1190292	4.00	4.06	
164 Benzidine	184	11.119	11.119	0.000	99	996655	8.00	8.45	
165 Pyrene	202	11.242	11.242	0.000	98	1211794	4.00	4.25	
172 Butyl benzyl phthalate	149	11.792	11.792	0.000	96	462982	4.00	4.04	
180 Bis(2-ethylhexyl) phthalate	149	12.438	12.438	0.000	94	677202	4.00	4.00	
177 3,3'-Dichlorobenzidine	252	12.460	12.460	0.000	73	820295	8.00	8.07	
179 Benzo[a]anthracene	228	12.524	12.524	0.000	98	1148892	4.00	3.98	
181 Chrysene	228	12.572	12.572	0.000	96	1113029	4.00	3.93	
184 Di-n-octyl phthalate	149	13.309	13.309	0.000	99	1022565	4.00	4.00	
186 Benzo[b]fluoranthene	252	14.014	14.014	0.000	96	1079202	4.00	4.43	
187 Benzo[k]fluoranthene	252	14.052	14.052	0.000	99	1079680	4.00	4.43	
189 Benzo[a]pyrene	252	14.511	14.511	0.000	77	912161	4.00	4.32	
193 Indeno[1,2,3-cd]pyrene	276	16.242	16.242	0.000	98	1234423	4.00	4.28	
194 Dibenz(a,h)anthracene	278	16.247	16.247	0.000	87	1028353	4.00	4.25	
195 Benzo[g,h,i]perylene	276	16.686	16.686	0.000	98	1009053	4.00	4.49	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00466	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00205	Amount Added: 20.00	Units: uL	Run Reagent

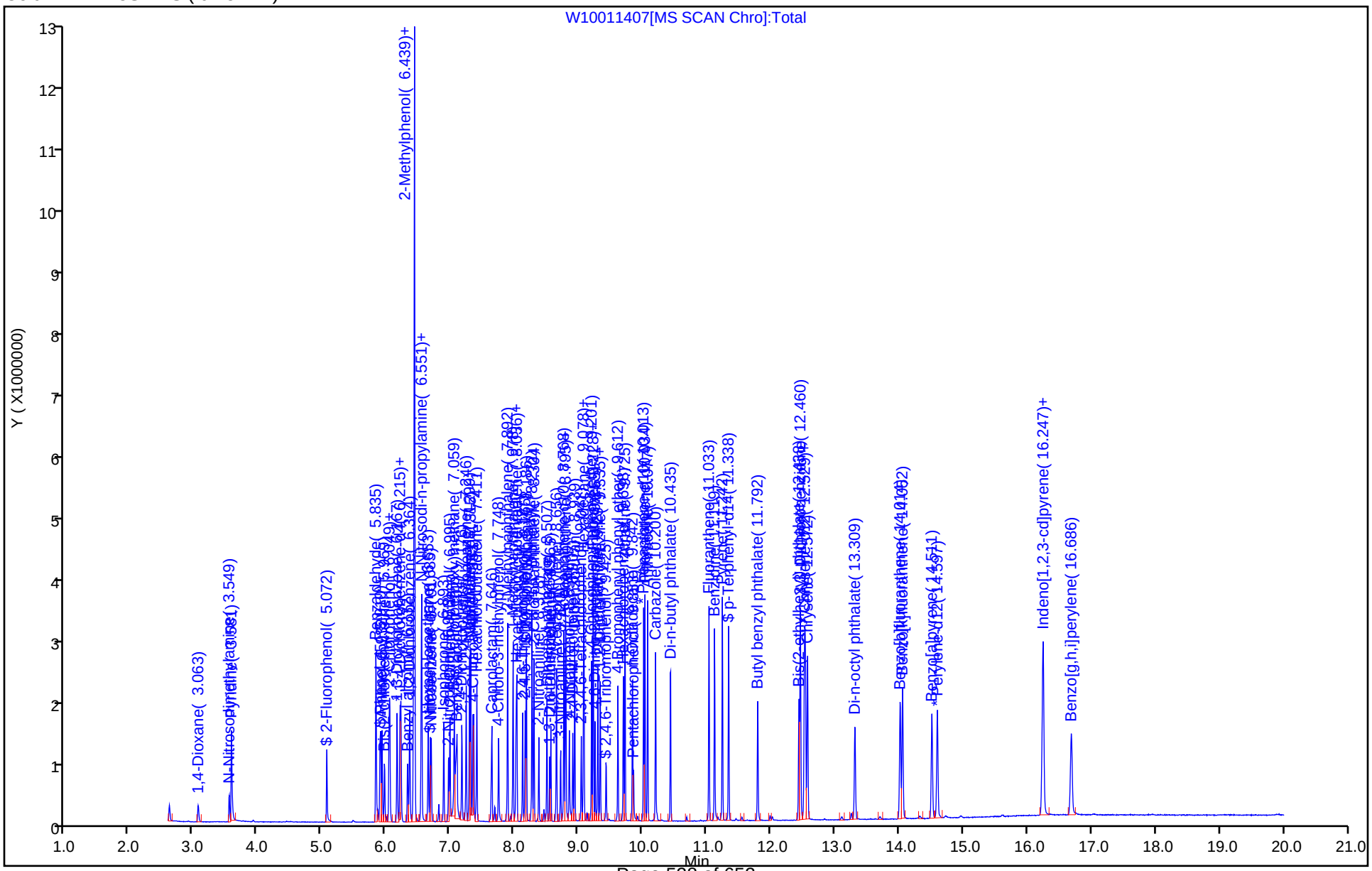
Report Date: 01-Dec-2020 17:16:17 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011407.d

Injection Date:	01-Dec-2020 16:53:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

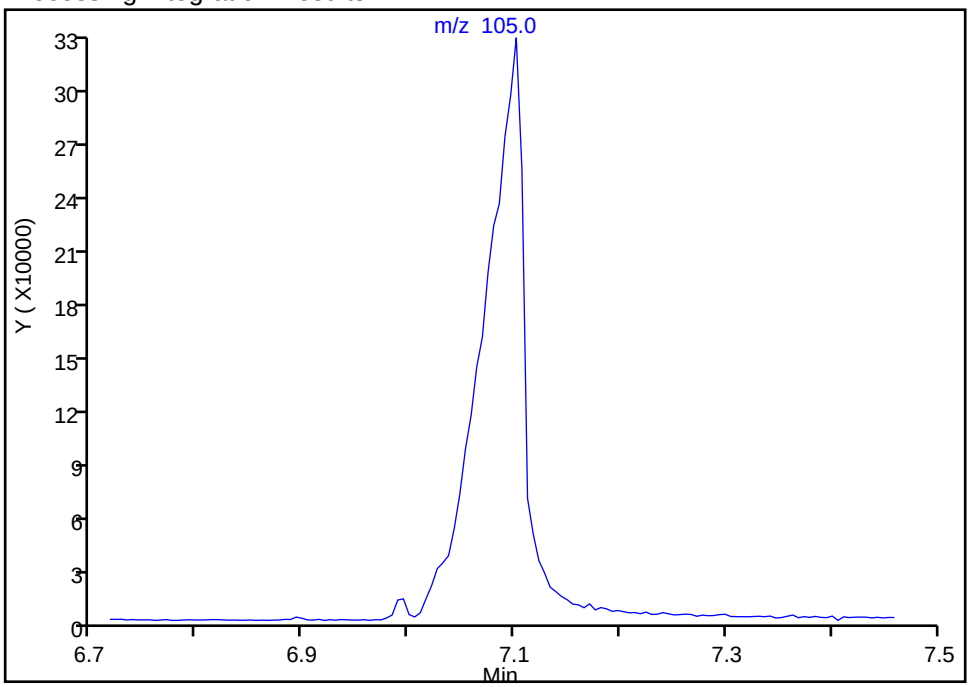
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011407.d
Injection Date: 01-Dec-2020 16:53:30 Instrument ID: HP5973W
Lims ID: CCVIS
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

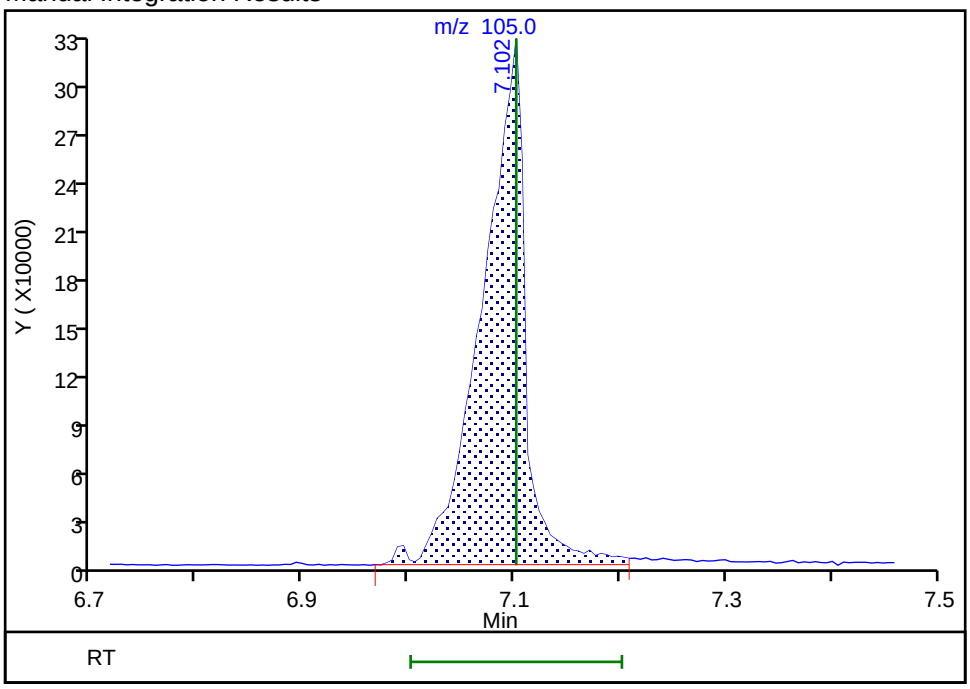
Not Detected
Expected RT: 7.10

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 929326
Amount: 19.145979
Amount Units: ng/uL



Reviewer: quirkp, 01-Dec-2020 17:15:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

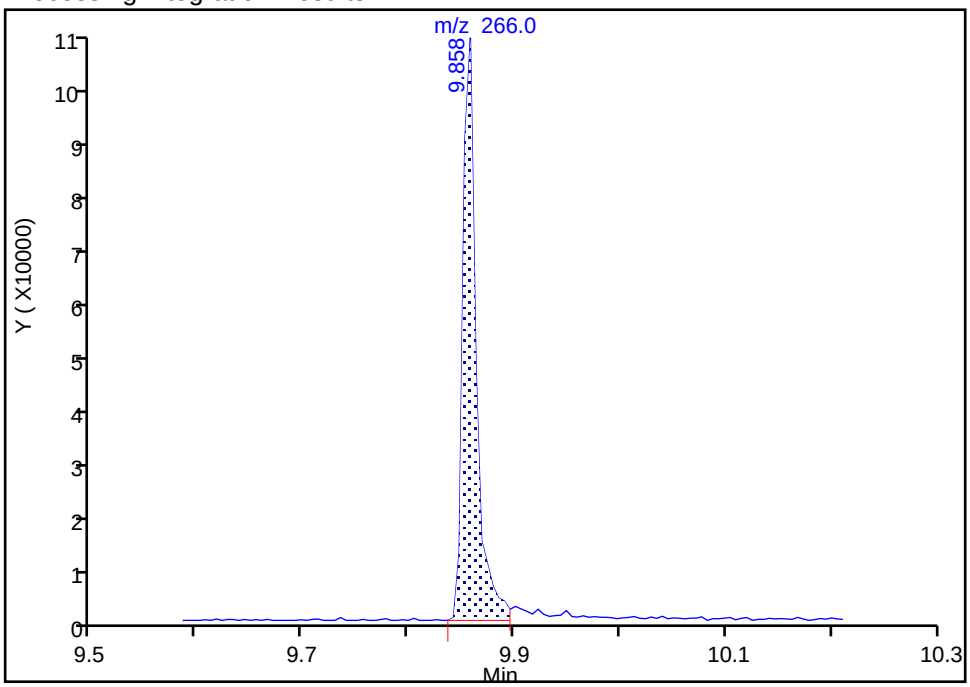
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011407.d
Injection Date: 01-Dec-2020 16:53:30 Instrument ID: HP5973W
Lims ID: CCVIS
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

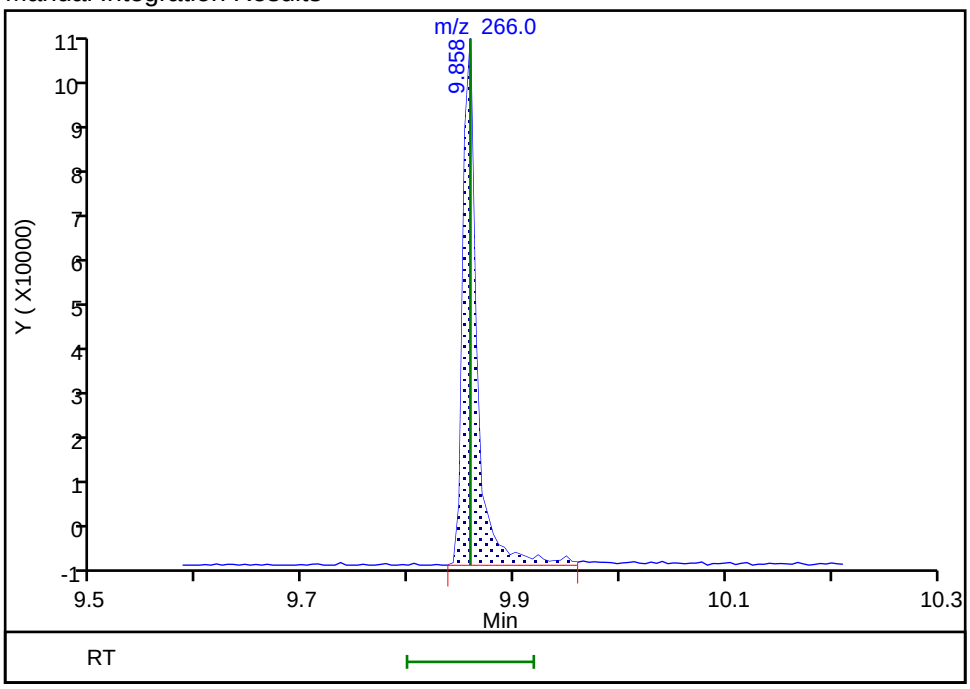
Processing Integration Results

RT: 9.86
Area: 91039
Amount: 3.740487
Amount Units: ng/uL



Manual Integration Results

RT: 9.86
Area: 96217
Amount: 3.863073
Amount Units: ng/uL



Reviewer: quirkp, 01-Dec-2020 17:15:45
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561842/3 Calibration Date: 12/03/2020 15:34

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011488.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5254	0.4849	0.0100	3690	4000	-7.7	20.0
N-Nitrosodimethylamine	Ave	0.6280	0.5535	0.0100	3520	4000	-11.9	50.0
Pyridine	Lin2		0.6651	0.0100	6810	8000	-14.9	50.0
Benzaldehyde	Ave	0.8838	0.8562	0.0100	7750	8000	-3.1	50.0
Phenol	Ave	1.519	1.359	0.8000	3580	4000	-10.5	20.0
Aniline	Ave	1.685	1.718	0.0100	4080	4000	2.0	20.0
Bis(2-chloroethyl)ether	Ave	1.181	1.128	0.7000	3820	4000	-4.5	20.0
2-Chlorophenol	Ave	1.316	1.333	0.8000	4050	4000	1.3	20.0
n-Decane	Ave	1.238	1.140	0.0100	3680	4000	-7.9	20.0
1,3-Dichlorobenzene	Ave	1.545	1.539	0.0100	3980	4000	-0.4	20.0
1,4-Dichlorobenzene	Ave	1.575	1.589	0.0100	4040	4000	0.9	20.0
Benzyl alcohol	Lin2		0.7095	0.0100	4030	4000	0.8	20.0
1,2-Dichlorobenzene	Ave	1.446	1.510	0.0100	4180	4000	4.4	20.0
2-Methylphenol	Ave	1.095	1.147	0.7000	4190	4000	4.7	20.0
bis (2-chloroisopropyl) ether	Ave	1.555	1.724	0.0100	4430	4000	10.9	20.0
Indene	Ave	0.6456	0.6562	0.0100	20300	20000	1.6	20.0
N-Nitrosodi-n-propylamine	Lin2		0.6599	0.5000	3890	4000	-2.8	20.0
4-Methylphenol	Ave	1.094	1.206	0.6000	4410	4000	10.2	20.0
Acetophenone	Ave	1.578	1.654	0.0100	4190	4000	4.8	20.0
Hexachloroethane	Ave	0.5324	0.5471	0.3000	4110	4000	2.8	20.0
Nitrobenzene	Ave	0.3272	0.3089	0.2000	3780	4000	-5.6	20.0
Isophorone	Ave	0.5469	0.5316	0.4000	3890	4000	-2.8	20.0
2-Nitrophenol	Lin2		0.1888	0.1000	4030	4000	0.7	20.0
2,4-Dimethylphenol	Ave	0.3277	0.3142	0.2000	3830	4000	-4.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3417	0.3458	0.3000	4050	4000	1.2	20.0
Benzoic acid	Lin2		0.1678	0.0100	17500	20000	-12.3	50.0
2,4-Dichlorophenol	Ave	0.2780	0.3034	0.2000	4370	4000	9.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3393	0.3525	0.0100	4160	4000	3.9	20.0
Naphthalene	Ave	1.036	1.064	0.7000	4110	4000	2.7	20.0
4-Chloroaniline	Ave	0.3896	0.4237	0.0100	4350	4000	8.8	20.0
2,6-Dichlorophenol	Ave	0.2858	0.3060	0.0100	4280	4000	7.0	20.0
Hexachlorobutadiene	Ave	0.2223	0.2133	0.0100	3840	4000	-4.1	20.0
Caprolactam	Lin2		0.1004	0.0100	7870	8000	-1.6	50.0
4-Chloro-3-methylphenol	Lin2		0.2503	0.2000	3940	4000	-1.5	20.0
2-Methylnaphthalene	Ave	0.7098	0.7419	0.4000	4180	4000	4.5	20.0
1-Methylnaphthalene	Ave	0.6427	0.6765	0.0100	4210	4000	5.3	20.0
Hexachlorocyclopentadiene	Lin2		0.3243	0.0500	3520	4000	-12.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6414	0.6538	0.0100	4080	4000	1.9	20.0
2,4,6-Trichlorophenol	Ave	0.3721	0.3844	0.2000	4130	4000	3.3	20.0
2,4,5-Trichlorophenol	Lin2		0.4017	0.2000	3850	4000	-3.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561842/3 Calibration Date: 12/03/2020 15:34

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011488.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.534	1.558	0.0100	4060	4000	1.6	20.0
2-Chloronaphthalene	Ave	1.175	1.148	0.8000	3910	4000	-2.3	20.0
2-Nitroaniline	Lin2		0.2443	0.0100	3380	4000	-15.4	20.0
Dimethyl phthalate	Ave	1.302	1.272	0.0100	3910	4000	-2.3	20.0
1,3-Dinitrobenzene	Lin2		0.1273	0.0100	4060	4000	1.4	20.0
2,6-Dinitrotoluene	Lin2		0.3200	0.2000	3920	4000	-2.1	20.0
Acenaphthylene	Ave	1.686	1.743	0.9000	4130	4000	3.4	20.0
3-Nitroaniline	Lin2		0.3298	0.0100	4050	4000	1.1	20.0
Acenaphthene	Ave	1.167	1.234	0.9000	4230	4000	5.7	20.0
2,4-Dinitrophenol	Lin1		0.1303	0.0100	7050	8000	-11.9	20.0
4-Nitrophenol	Lin2		0.1390	0.0100	7090	8000	-11.4	20.0
2,4-Dinitrotoluene	Lin2		0.4044	0.2000	4140	4000	3.6	20.0
Dibenzofuran	Ave	1.611	1.682	0.8000	4170	4000	4.4	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.2970	0.0100	3880	4000	-3.1	20.0
Hexadecane	Ave	0.6364	0.6541	0.0100	4110	4000	2.8	20.0
Diethyl phthalate	Ave	1.256	1.279	0.0100	4070	4000	1.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6719	0.6813	0.4000	4060	4000	1.4	20.0
4-Nitroaniline	Lin2		0.3483	0.0100	4160	4000	3.9	20.0
Fluorene	Ave	1.298	1.419	0.9000	4370	4000	9.4	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1129	0.0100	6960	8000	-12.9	20.0
Diphenylamine	Ave	0.6647	0.6404	0.0100	3300	3420	-3.6	20.0
N-Nitrosodiphenylamine	Ave	0.5683	0.5476	0.0100	3850	4000	-3.6	20.0
1,2-Diphenylhydrazine	Ave	1.112	1.101	0.0100	3960	4000	-1.1	20.0
trans-Azobenzene	Ave	0.6709	0.6159	0.0100	3670	4000	-8.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2411	0.2270	0.1000	3770	4000	-5.9	20.0
Hexachlorobenzene	Ave	0.2554	0.2211	0.1000	3460	4000	-13.4	20.0
Atrazine	Ave	0.3540	0.3950	0.0100	8930	8000	11.6	20.0
n-Octadecane	Ave	0.3858	0.3449	0.0100	3580	4000	-10.6	20.0
Pentachlorophenol	Lin1		0.0826	0.0500	5510	8000	-31.2*	20.0
Phenanthrene	Ave	1.104	1.113	0.7000	4030	4000	0.8	20.0
Anthracene	Ave	1.110	1.119	0.7000	4030	4000	0.7	20.0
Carbazole	Ave	0.9492	0.9277	0.0100	3910	4000	-2.3	20.0
Di-n-butyl phthalate	Ave	1.163	1.112	0.0100	3820	4000	-4.4	20.0
Fluoranthene	Ave	1.169	1.159	0.6000	3970	4000	-0.9	20.0
Benzidine	Ave	0.5137	0.5737	0.0100	8930	8000	11.7	50.0
Pyrene	Ave	1.243	1.354	0.6000	4360	4000	9.0	20.0
Butyl benzyl phthalate	Lin2		0.5162	0.0100	4140	4000	3.4	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.7281	0.0100	3950	4000	-1.3	20.0
3,3'-Dichlorobenzidine	Ave	0.4429	0.4272	0.0100	7720	8000	-3.6	50.0
Benzo[a]anthracene	Ave	1.256	1.289	0.8000	4100	4000	2.6	20.0
Chrysene	Ave	1.234	1.257	0.7000	4080	4000	1.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Lab Sample ID: CCVIS 480-561842/3 Calibration Date: 12/03/2020 15:34

Instrument ID: HP5973W Calib Start Date: 11/24/2020 15:28

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 11/24/2020 18:47

Lab File ID: W10011488.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		1.138	0.0100	4090	4000	2.3	20.0
Benzo[b]fluoranthene	Lin2		1.275	0.7000	4530	4000	13.2	20.0
Benzo[k]fluoranthene	Ave	1.128	1.232	0.7000	4370	4000	9.2	20.0
Benzo[a]pyrene	Lin2		1.046	0.7000	4280	4000	7.1	20.0
Indeno[1,2,3-cd]pyrene	Lin2		1.368	0.5000	4100	4000	2.6	20.0
Dibenz(a,h)anthracene	Lin2		1.146	0.4000	4100	4000	2.4	20.0
Benzo[g,h,i]perylene	Lin2		1.107	0.5000	4270	4000	6.6	20.0
2-Fluorophenol (Surr)	Ave	1.198	1.176	0.0100	3930	4000	-1.8	20.0
Phenol-d5 (Surr)	Ave	1.396	1.395	0.0100	4000	4000	-0.0	20.0
Nitrobenzene-d5 (Surr)	Lin2		0.2952	0.0100	3700	4000	-7.5	20.0
2-Fluorobiphenyl	Ave	1.392	1.399	0.0100	4020	4000	0.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1101	0.0878	0.0100	3190	4000	-20.2*	20.0
p-Terphenyl-d14 (Surr)	Ave	1.048	1.053	0.0100	4020	4000	0.5	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011488.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Dec-2020 15:34:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095412-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 03-Dec-2020 15:58:46 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: quirkp Date: 03-Dec-2020 15:58:46

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	6.193	6.193	0.000	93	268195	4.00	4.00	
* 2 Naphthalene-d8	136	7.283	7.283	0.000	99	980965	4.00	4.00	
* 3 Acenaphthene-d10	164	8.752	8.752	0.000	92	556326	4.00	4.00	
* 4 Phenanthrene-d10	188	9.997	9.997	0.000	96	994053	4.00	4.00	
* 5 Chrysene-d12	240	12.513	12.513	0.000	99	881158	4.00	4.00	
* 6 Perylene-d12	264	14.559	14.559	0.000	98	839798	4.00	4.00	
$ 7 2-Fluorophenol	112	5.045	5.045	0.000	88	315277	4.00	3.93	
$ 8 Phenol-d5	99	5.878	5.878	0.000	98	374043	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.669	6.669	0.000	87	289567	4.00	3.70	
$ 10 2-Fluorobiphenyl	172	8.170	8.170	0.000	99	778326	4.00	4.02	
$ 11 2,4,6-Tribromophenol	330	9.415	9.415	0.000	92	87322	4.00	3.19	
$ 12 p-Terphenyl-d14	244	11.322	11.322	0.000	98	928052	4.00	4.02	
14 1,4-Dioxane	88	3.020	3.020	0.000	93	130044	4.00	3.69	
15 N-Nitrosodimethylamine	42	3.517	3.517	0.000	90	148434	4.00	3.52	
16 Pyridine	52	3.543	3.543	0.000	94	356763	8.00	6.81	
36 Benzaldehyde	77	5.819	5.819	0.000	93	459282	8.00	7.75	
37 Phenol	94	5.889	5.889	0.000	98	364500	4.00	3.58	
38 Aniline	93	5.915	5.915	0.000	97	460766	4.00	4.08	
40 Bis(2-chloroethyl)ether	93	5.953	5.953	0.000	98	302548	4.00	3.82	
41 2-Chlorophenol	128	6.022	6.022	0.000	94	357615	4.00	4.05	
43 n-Decane	57	6.033	6.033	0.000	94	305616	4.00	3.68	
44 1,3-Dichlorobenzene	146	6.150	6.150	0.000	98	412702	4.00	3.98	
45 1,4-Dichlorobenzene	146	6.209	6.209	0.000	97	426204	4.00	4.04	
46 Benzyl alcohol	108	6.311	6.311	0.000	95	190277	4.00	4.03	
47 1,2-Dichlorobenzene	146	6.343	6.343	0.000	99	404984	4.00	4.18	
49 2-Methylphenol	108	6.402	6.402	0.000	96	307508	4.00	4.19	
50 2,2'-oxybis[1-chloropropane]	45	6.412	6.412	0.000	94	462435	4.00	4.43	
48 Indene	115	6.423	6.423	0.000	91	3218632	20.0	20.3	
55 N-Nitrosodi-n-propylamine	70	6.524	6.524	0.000	92	176975	4.00	3.89	
56 4-Methylphenol	108	6.530	6.530	0.000	96	323377	4.00	4.41	
53 Acetophenone	105	6.535	6.535	0.000	96	443675	4.00	4.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.637	6.637	0.000	92	146731	4.00	4.11	
61 Nitrobenzene	77	6.685	6.685	0.000	85	303022	4.00	3.78	
63 Isophorone	82	6.877	6.877	0.000	98	521471	4.00	3.89	
67 2-Nitrophenol	139	6.957	6.957	0.000	87	185204	4.00	4.03	
68 2,4-Dimethylphenol	107	6.973	6.973	0.000	92	308180	4.00	3.83	
71 Bis(2-chloroethoxy)methane	93	7.043	7.043	0.000	98	339259	4.00	4.05	
72 Benzoic acid	105	7.085	7.085	0.000	86	822998	20.0	17.5	a
74 2,4-Dichlorophenol	162	7.160	7.160	0.000	89	297595	4.00	4.37	
75 1,2,4-Trichlorobenzene	180	7.230	7.230	0.000	93	345750	4.00	4.16	
76 Naphthalene	128	7.299	7.299	0.000	97	1043969	4.00	4.11	
78 4-Chloroaniline	127	7.331	7.331	0.000	97	415682	4.00	4.35	
79 2,6-Dichlorophenol	162	7.347	7.347	0.000	96	300141	4.00	4.28	
81 Hexachlorobutadiene	225	7.395	7.395	0.000	95	209215	4.00	3.84	
84 Caprolactam	113	7.630	7.630	0.000	82	197046	8.00	7.87	
87 4-Chloro-3-methylphenol	107	7.732	7.732	0.000	93	245536	4.00	3.94	
89 2-Methylnaphthalene	142	7.876	7.876	0.000	93	727752	4.00	4.18	
91 1-Methylnaphthalene	142	7.962	7.962	0.000	93	663577	4.00	4.21	
93 Hexachlorocyclopentadiene	237	8.010	8.010	0.000	93	180403	4.00	3.52	
92 1,2,4,5-Tetrachlorobenzene	216	8.020	8.020	0.000	96	363741	4.00	4.08	
94 2,4,6-Trichlorophenol	196	8.111	8.111	0.000	89	213832	4.00	4.13	
95 2,4,5-Trichlorophenol	196	8.148	8.148	0.000	95	223475	4.00	3.85	
97 1,1'-Biphenyl	154	8.255	8.255	0.000	95	866747	4.00	4.06	
98 2-Chloronaphthalene	162	8.287	8.287	0.000	95	638782	4.00	3.91	
100 2-Nitroaniline	65	8.362	8.362	0.000	93	135902	4.00	3.38	
104 Dimethyl phthalate	163	8.490	8.490	0.000	99	707428	4.00	3.91	
105 1,3-Dinitrobenzene	168	8.533	8.533	0.000	94	124900	4.00	4.06	
106 2,6-Dinitrotoluene	165	8.549	8.549	0.000	93	178000	4.00	3.92	
107 Acenaphthylene	152	8.640	8.640	0.000	98	969670	4.00	4.13	
108 3-Nitroaniline	138	8.704	8.704	0.000	92	183496	4.00	4.05	
109 Acenaphthene	153	8.779	8.779	0.000	94	686482	4.00	4.23	
110 2,4-Dinitrophenol	184	8.790	8.790	0.000	85	144962	8.00	7.05	
111 4-Nitrophenol	109	8.832	8.832	0.000	84	154650	8.00	7.09	
113 2,4-Dinitrotoluene	165	8.891	8.891	0.000	94	224968	4.00	4.14	
114 Dibenzofuran	168	8.923	8.923	0.000	97	935481	4.00	4.17	
117 2,3,4,6-Tetrachlorophenol	232	9.025	9.025	0.000	69	165218	4.00	3.88	
120 Hexadecane	57	9.062	9.062	0.000	93	363899	4.00	4.11	
119 Diethyl phthalate	149	9.067	9.067	0.000	99	711385	4.00	4.07	
122 4-Chlorophenyl phenyl ether	204	9.185	9.185	0.000	90	379032	4.00	4.06	
125 4-Nitroaniline	138	9.212	9.212	0.000	95	193770	4.00	4.16	
123 Fluorene	166	9.212	9.212	0.000	94	789636	4.00	4.37	
126 4,6-Dinitro-2-methylphenol	198	9.238	9.238	0.000	96	224489	8.00	6.96	
129 N-Nitrosodiphenylamine	169	9.281	9.281	0.000	100	544299	4.00	3.85	
128 Diphenylamine	169	9.281	9.281	0.000	94	544299	3.42	3.30	
130 1,2-Diphenylhydrazine	77	9.318	9.318	0.000	98	612270	4.00	3.96	
131 Azobenzene	77	9.318	9.318	0.000	98	612270	4.00	3.67	
137 4-Bromophenyl phenyl ether	248	9.596	9.596	0.000	62	225631	4.00	3.77	
138 Hexachlorobenzene	284	9.682	9.682	0.000	94	219830	4.00	3.46	
141 Atrazine	200	9.708	9.708	0.000	95	439478	8.00	8.93	
146 n-Octadecane	57	9.826	9.826	0.000	94	342860	4.00	3.58	
143 Pentachlorophenol	266	9.837	9.837	0.000	93	164160	8.00	5.51	M
149 Phenanthrene	178	10.018	10.018	0.000	97	1105911	4.00	4.03	
150 Anthracene	178	10.061	10.061	0.000	97	1112045	4.00	4.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	10.184	10.184	0.000	95	922191	4.00	3.91	
154 Di-n-butyl phthalate	149	10.414	10.414	0.000	100	1105244	4.00	3.82	
161 Fluoranthene	202	11.012	11.012	0.000	98	1151686	4.00	3.97	
164 Benzidine	184	11.103	11.103	0.000	99	1010959	8.00	8.93	
165 Pyrene	202	11.220	11.220	0.000	98	1193284	4.00	4.36	
172 Butyl benzyl phthalate	149	11.771	11.771	0.000	95	454845	4.00	4.14	
180 Bis(2-ethylhexyl) phthalate	149	12.412	12.412	0.000	94	641575	4.00	3.95	
177 3,3'-Dichlorobenzidine	252	12.433	12.433	0.000	73	752775	8.00	7.72	
179 Benzo[a]anthracene	228	12.497	12.497	0.000	98	1135389	4.00	4.10	
181 Chrysene	228	12.545	12.545	0.000	96	1107843	4.00	4.08	
184 Di-n-octyl phthalate	149	13.277	13.277	0.000	98	1002930	4.00	4.09	
186 Benzo[b]fluoranthene	252	13.982	13.982	0.000	96	1070436	4.00	4.53	
187 Benzo[k]fluoranthene	252	14.020	14.020	0.000	99	1034251	4.00	4.37	
189 Benzo[a]pyrene	252	14.474	14.474	0.000	77	878613	4.00	4.28	
193 Indeno[1,2,3-cd]pyrene	276	16.199	16.199	0.000	98	1148987	4.00	4.10	
194 Dibenz(a,h)anthracene	278	16.205	16.205	0.000	88	962777	4.00	4.10	
195 Benzo[g,h,i]perylene	276	16.637	16.637	0.000	98	929346	4.00	4.27	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MB_L1LVI_WRK_00466	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00205	Amount Added: 20.00	Units: uL	Run Reagent

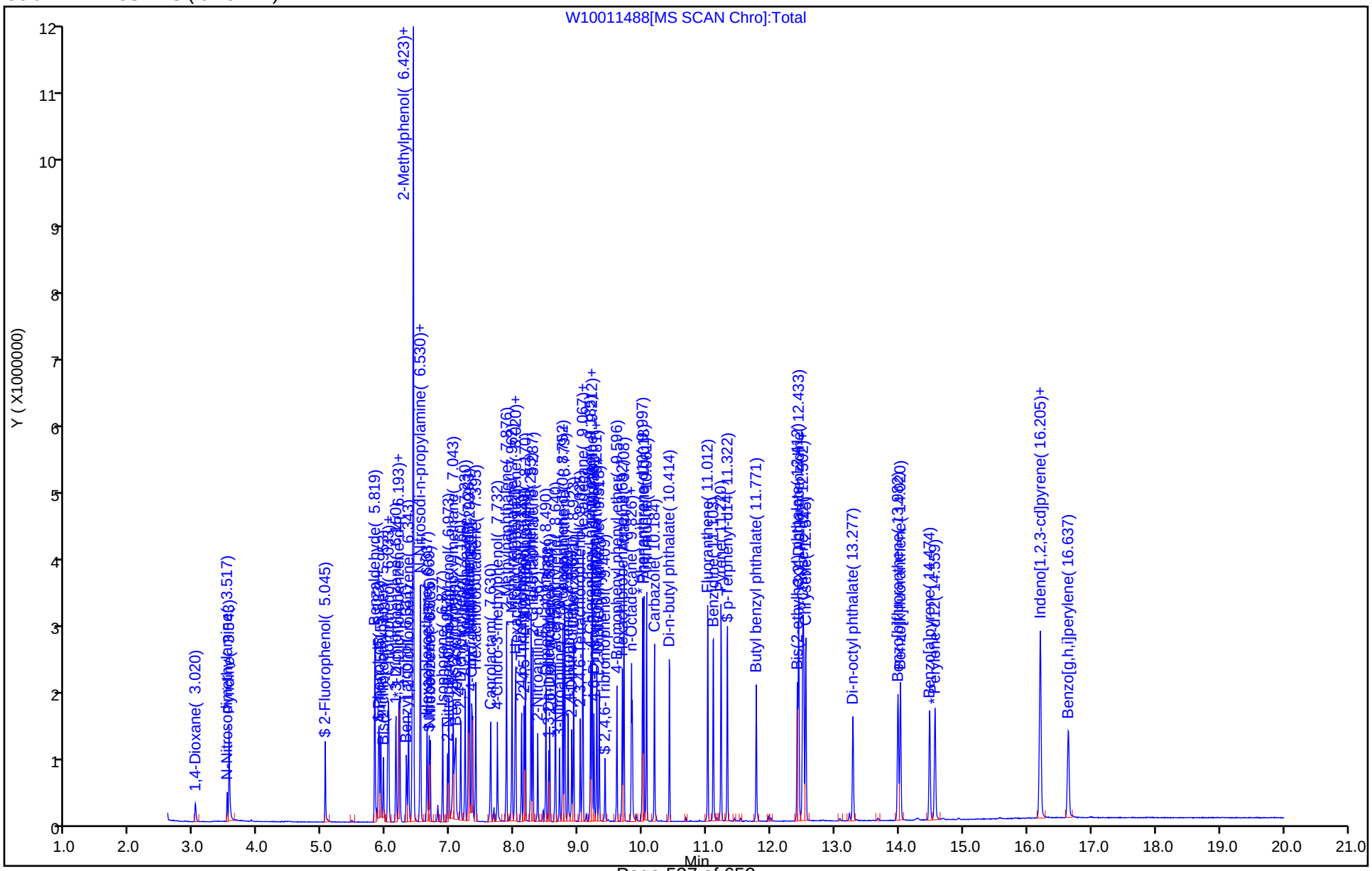
Report Date: 03-Dec-2020 15:58:47 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011488.d

Injection Date:	03-Dec-2020 15:34:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

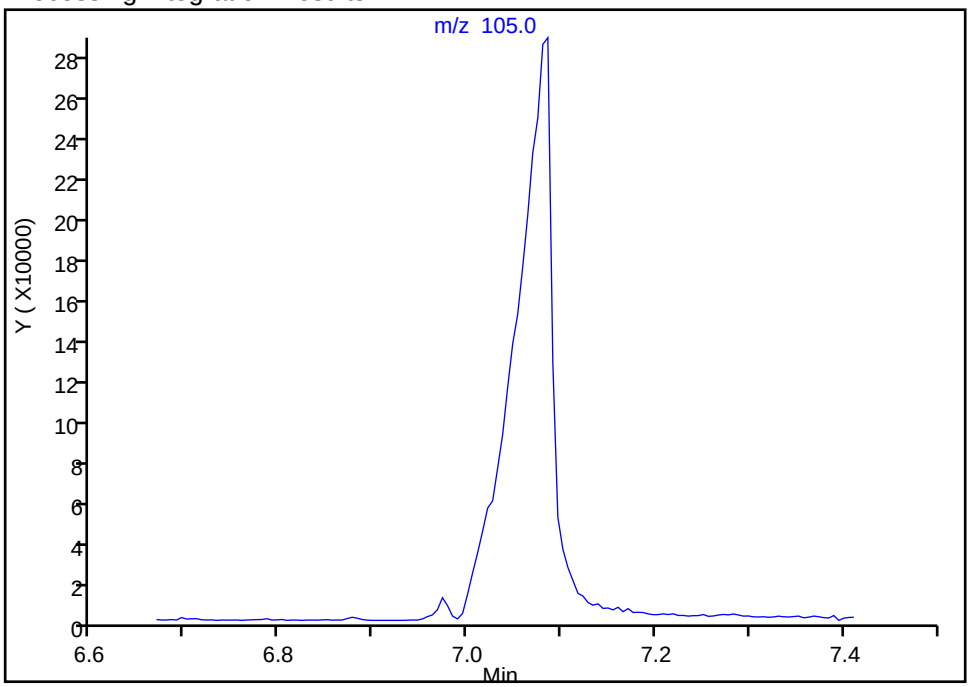
Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011488.d				
Injection Date:	03-Dec-2020 15:34:30	Instrument ID:	HP5973W		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

72 Benzoic acid, CAS: 65-85-0

Signal: 1

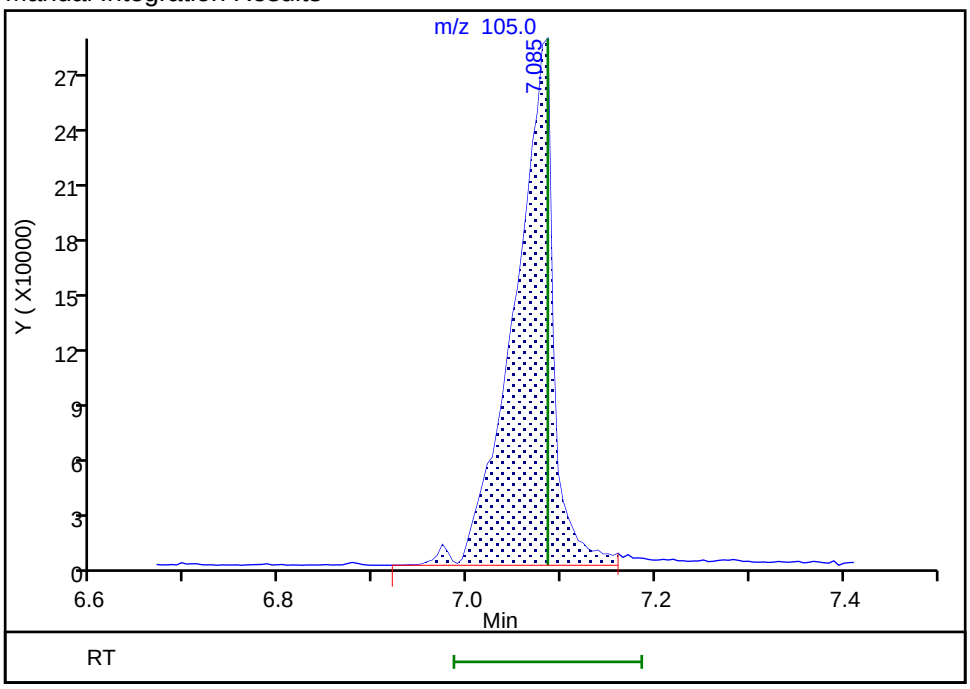
Not Detected
Expected RT: 7.09

Processing Integration Results



Manual Integration Results

RT: 7.09
Area: 822998
Amount: 17.549284
Amount Units: ng/uL



Reviewer: quirkp, 03-Dec-2020 15:57:56
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

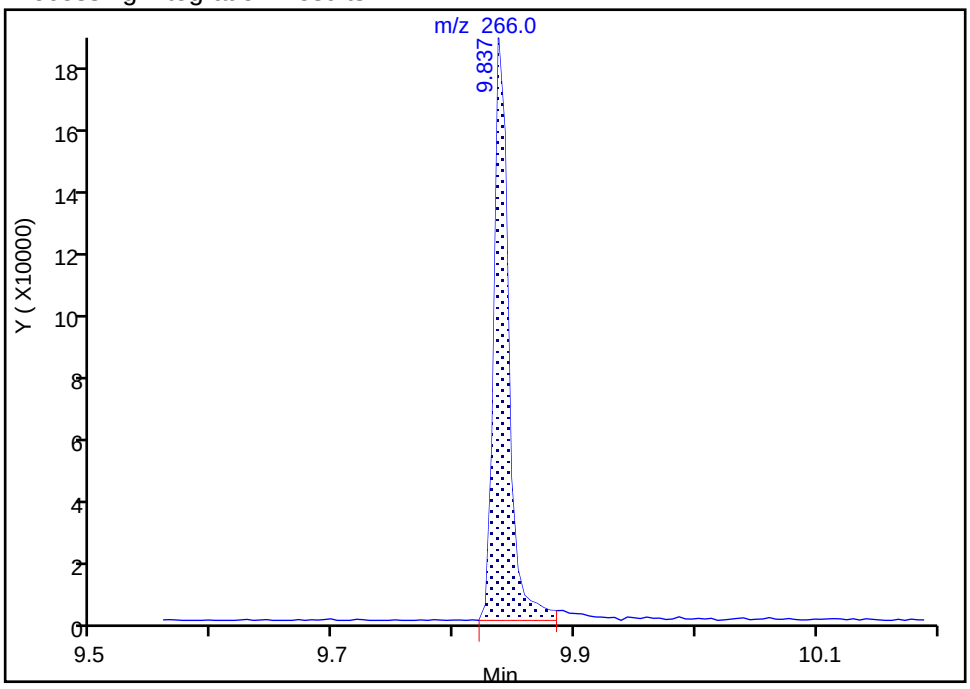
Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011488.d				
Injection Date:	03-Dec-2020 15:34:30	Instrument ID:	HP5973W		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

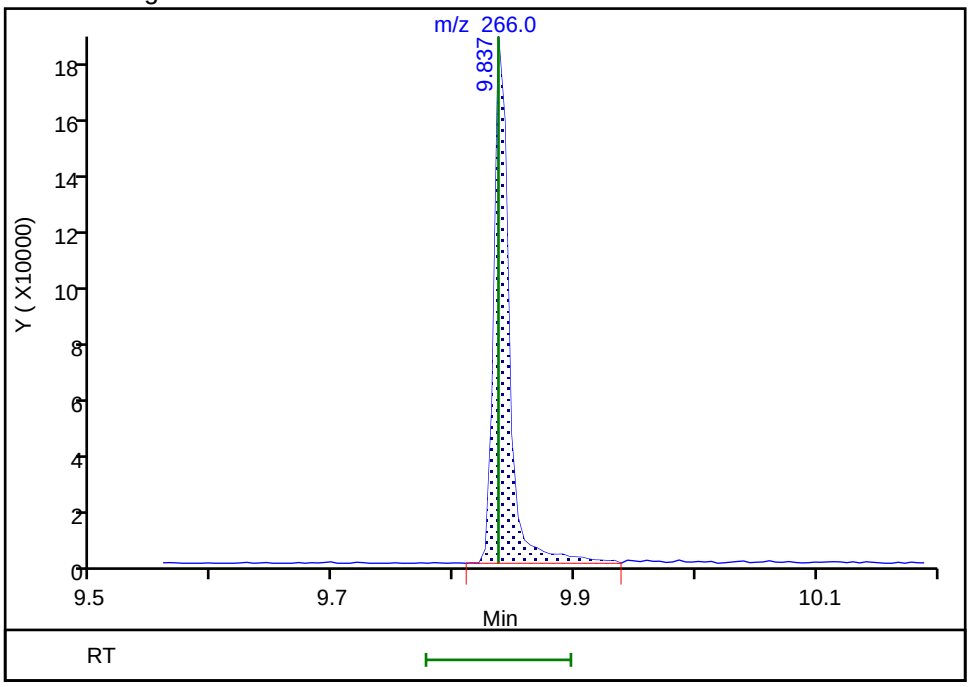
Processing Integration Results

RT: 9.84
Area: 159257
Amount: 5.390025
Amount Units: ng/uL



Manual Integration Results

RT: 9.84
Area: 164160
Amount: 5.507163
Amount Units: ng/uL



Reviewer: quirkp, 03-Dec-2020 15:58:19
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 24-Nov-2020 14:46:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP TEST
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Nov-2020 12:37:32 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: quirkp Date: 24-Nov-2020 15:13:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	9.863	9.863	0.000	92	246132	NR	NR	
249 DFTPP									
250 Benzidine_T	184	11.130	11.130	0.000	99	1320562	NR	NR	
251 4,4'-DDE	246		11.295					ND	
252 4,4'-DDD	235	11.621	11.621	0.000	91	5776		NR	
253 4,4'-DDT	235	11.947	11.947	0.000	98	952853	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

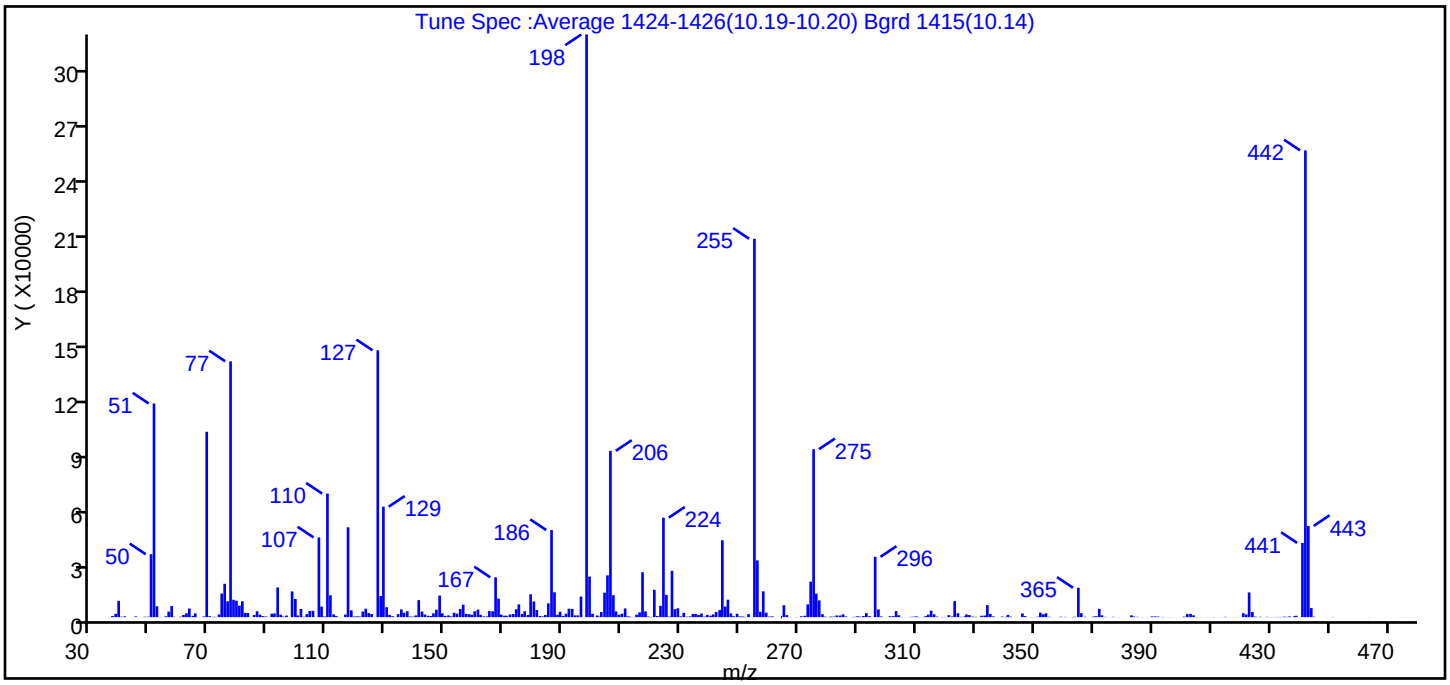
MB_DFTPP_WRK_00384 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d
Injection Date: 24-Nov-2020 14:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (124.8)
51	10-80% of the base peak	36.7
68	<2% of mass 69	0.1 (0.4)
69	Present	31.8
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	45.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	28.8
365	>1% of mass 198	5.0
441	present but <24% of mass 442	12.7 (15.9)
442	base peak, or >50% of 198	80.1
443	15-24% of mass 442	15.7 (19.5)

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d\W-LVI-8270.rslt\spectra.d
Injection Date: 24-Nov-2020 14:46:30
Spectrum: Tune Spec :Average 1424-1426(10.19-10.20) Bgrd 1415(10.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	81	139.00	253	232.00	236	336.00	406
37.00	635	140.00	914	233.00	391	339.00	310
38.00	1802	141.00	9165	234.00	1693	340.00	166
39.00	8775	142.00	2984	235.00	1753	341.00	1224
40.00	234	143.00	1396	236.00	1148	342.00	280
41.00	442	144.00	731	237.00	1971	343.00	48
45.00	398	145.00	610	238.00	282	346.00	1994
47.00	28	146.00	2054	239.00	1213	347.00	562
48.00	233	147.00	3982	240.00	755	349.00	74
49.00	239	148.00	11611	241.00	1477	350.00	54
50.00	33824	149.00	2035	242.00	2787	351.00	242
51.00	114928	150.00	688	243.00	3804	352.00	2445
52.00	5846	151.00	937	244.00	41352	353.00	1500
53.00	111	152.00	396	245.00	5696	354.00	2055
55.00	472	153.00	2362	246.00	9383	355.00	183
56.00	2977	154.00	1895	247.00	1977	356.00	57
57.00	5965	155.00	4413	248.00	494	358.00	35
58.00	217	156.00	6664	249.00	1851	359.00	240
60.00	257	157.00	1759	250.00	410	360.00	38
61.00	1188	158.00	1584	251.00	337	361.00	135
62.00	2051	159.00	1276	252.00	160	363.00	80
63.00	4623	160.00	3175	253.00	1605	364.00	199
64.00	674	161.00	4058	255.00	203520	365.00	15796
65.00	2032	162.00	1271	256.00	30528	366.00	2130
66.00	73	163.00	386	257.00	2893	367.00	203
68.00	387	164.00	400	258.00	13887	370.00	341
69.00	99720	165.00	3243	259.00	2432	371.00	509
70.00	513	166.00	3113	260.00	335	372.00	4456
71.00	156	167.00	21424	261.00	408	373.00	962
72.00	161	168.00	9969	264.00	1	374.00	149
73.00	1448	169.00	1383	265.00	6416	377.00	159
74.00	12705	170.00	771	266.00	1104	379.00	57
75.00	17936	171.00	744	267.00	90	383.00	969

Report Date: 25-Nov-2020 12:37:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d\W-LVI-8270.rslt\spectra.d
Injection Date: 24-Nov-2020 14:46:30
Spectrum: Tune Spec :Average 1424-1426(10.19-10.20) Bgrd 1415(10.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	8536	172.00	1433	269.00	91	384.00	357
77.00	137600	173.00	1688	270.00	22	385.00	158
78.00	9359	174.00	4250	271.00	487	387.00	83
79.00	8835	175.00	6868	272.00	718	388.00	70
80.00	6172	176.00	1699	273.00	6884	390.00	413
81.00	8534	177.00	3161	274.00	19072	391.00	391
82.00	2308	178.00	1162	275.00	90344	392.00	315
83.00	2221	179.00	12309	276.00	12644	393.00	39
85.00	1151	180.00	8408	277.00	9006	394.00	107
86.00	3157	181.00	3825	278.00	1592	395.00	50
87.00	1329	182.00	633	279.00	288	396.00	58
88.00	551	183.00	368	280.00	80	397.00	42
89.00	393	184.00	1168	281.00	319	400.00	81
90.00	38	185.00	7428	282.00	320	401.00	278
91.00	1846	186.00	46856	283.00	908	402.00	1658
92.00	1976	187.00	13359	284.00	869	403.00	1751
93.00	15960	188.00	1277	285.00	1493	404.00	980
94.00	1313	189.00	2874	286.00	342	405.00	118
95.00	332	190.00	692	288.00	88	407.00	58
96.00	859	191.00	1863	289.00	179	409.00	51
98.00	13833	192.00	4538	290.00	476	411.00	84
99.00	9812	193.00	4451	291.00	258	412.00	35
100.00	887	194.00	927	292.00	584	413.00	42
101.00	4409	195.00	931	293.00	2152	414.00	50
102.00	239	196.00	11081	294.00	539	415.00	175
103.00	1621	198.00	313408	296.00	32440	417.00	11
104.00	3312	199.00	21824	297.00	4142	418.00	59
105.00	3402	200.00	1837	298.00	383	420.00	40
107.00	42864	202.00	893	301.00	492	420.00	33
108.00	5660	202.00	359	302.00	540	421.00	2131
109.00	352	203.00	2722	303.00	3252	422.00	1444
110.00	66464	204.00	13158	304.00	1012	423.00	13279
111.00	11755	205.00	22472	305.00	89	424.00	2756
112.00	1507	206.00	89448	308.00	158	425.00	294

Report Date: 25-Nov-2020 12:37:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d\W-LVI-8270.rslt\spectra.d
Injection Date: 24-Nov-2020 14:46:30
Spectrum: Tune Spec :Average 1424-1426(10.19-10.20) Bgrd 1415(10.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	587	207.00	11814	309.00	273	426.00	35
114.00	43	208.00	3100	310.00	393	427.00	209
115.00	60	209.00	1277	311.00	80	428.00	34
116.00	1355	210.00	1856	313.00	183	429.00	165
117.00	48336	211.00	4666	313.00	517	430.00	76
118.00	3650	212.00	451	314.00	1360	432.00	105
119.00	346	213.00	237	315.00	3468	433.00	125
120.00	441	214.00	106	316.00	1521	433.00	40
121.00	363	215.00	1308	317.00	310	434.00	129
122.00	3013	216.00	2560	319.00	102	435.00	262
123.00	4537	217.00	24168	320.00	102	436.00	148
124.00	2204	218.00	3144	321.00	1057	437.00	392
125.00	1696	219.00	344	322.00	357	438.00	495
127.00	143552	220.00	138	323.00	8623	439.00	737
128.00	11338	221.00	14742	324.00	2081	441.00	39920
129.00	59408	222.00	647	325.00	170	442.00	251072
130.00	5357	223.00	6094	326.00	432	443.00	49072
131.00	1209	224.00	53520	327.00	1464	444.00	4875
132.00	528	225.00	11969	328.00	1111	445.00	256
133.00	36	226.00	309	329.00	288	451.00	89
134.00	1629	227.00	24920	330.00	176	464.00	44
135.00	4154	228.00	4303	332.00	747	474.00	45
136.00	2351	229.00	4756	333.00	855	476.00	46
137.00	3169	230.00	440	334.00	6469	477.00	36
138.00	334	231.00	2313	335.00	1711		

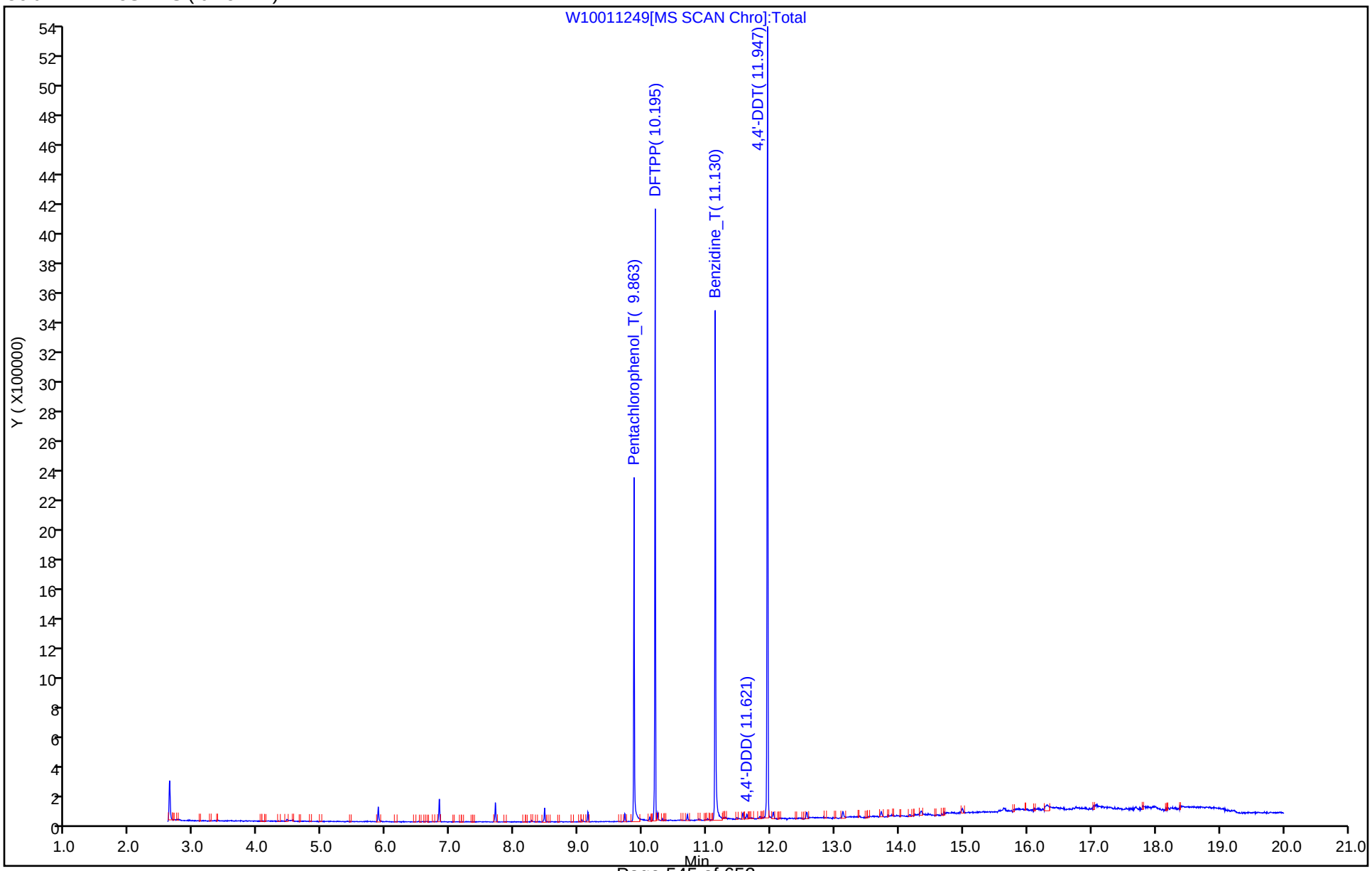
Report Date: 25-Nov-2020 12:37:33 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d

Injection Date:	24-Nov-2020 14:46:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d
Injection Date: 24-Nov-2020 14:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

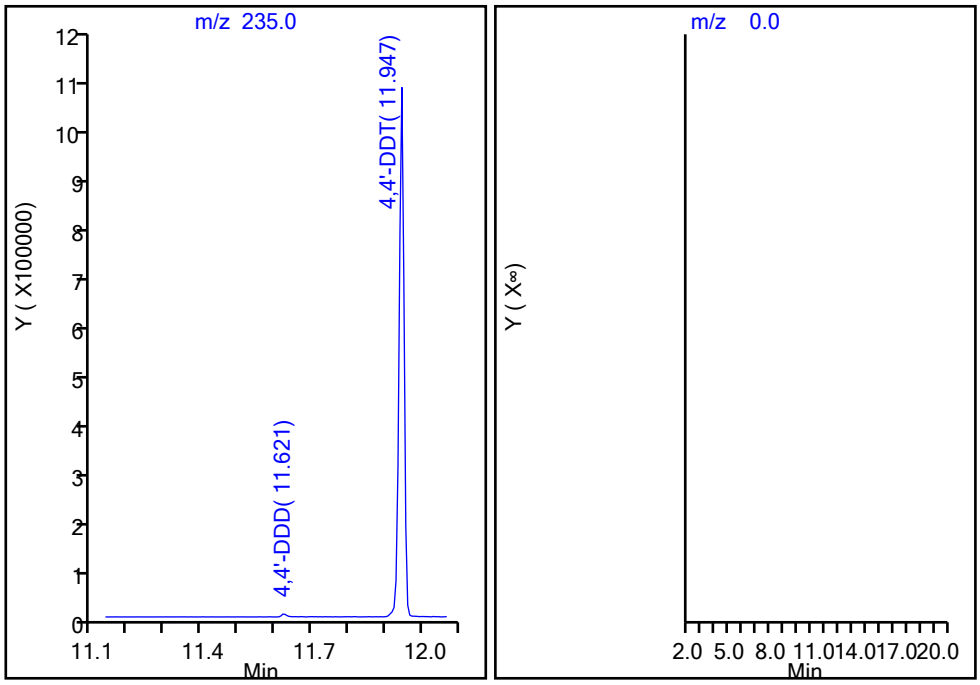
253 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 952853
252 4,4'-DDD, Area = 5776
251 4,4'-DDE, Area = 0

%Breakdown: 0.60%, <= 20.00%
Passed



Peak Tailing Report

Eurofins TestAmerica, Buffalo

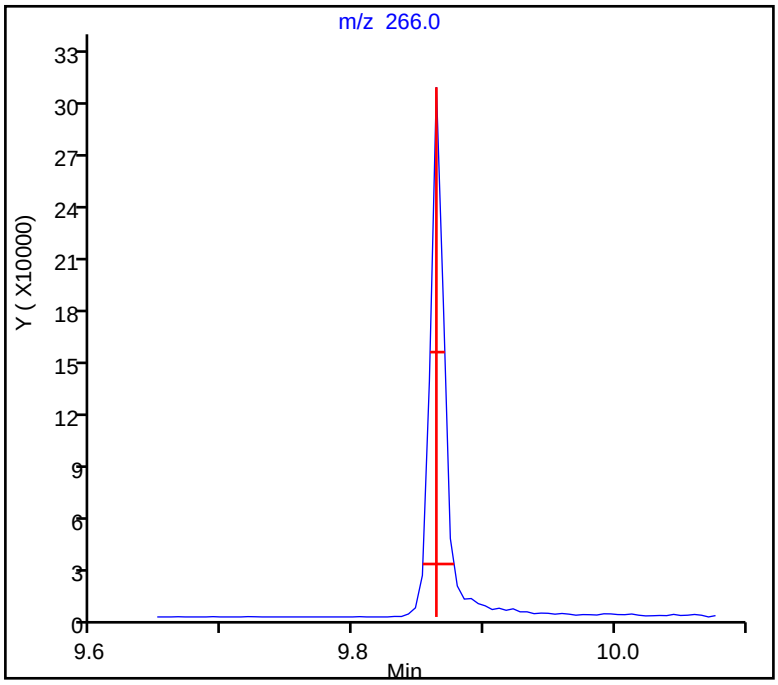
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d
Injection Date: 24-Nov-2020 14:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins TestAmerica, Buffalo

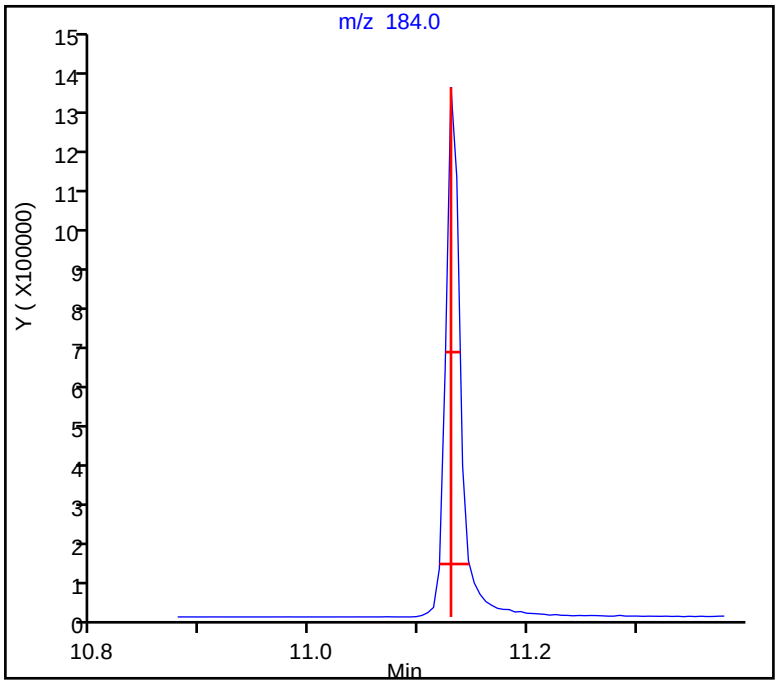
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011249.d
Injection Date: 24-Nov-2020 14:46:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.6, Max. Tailing <= 2.00
Passed



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Dec-2020 16:25:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-002
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 01-Dec-2020 16:50:23 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: quirkp Date: 01-Dec-2020 16:50:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	9.858	9.858	0.000	93	151068	NR	NR	
249 DFTPP									
250 Benzidine_T	184	11.119	11.119	0.000	99	1645465	NR	NR	
251 4,4'-DDE	246		11.284					ND	
252 4,4'-DDD	235	11.610	11.610	0.000	94	6375		NR	
253 4,4'-DDT	235	11.931	11.931	0.000	98	984313	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

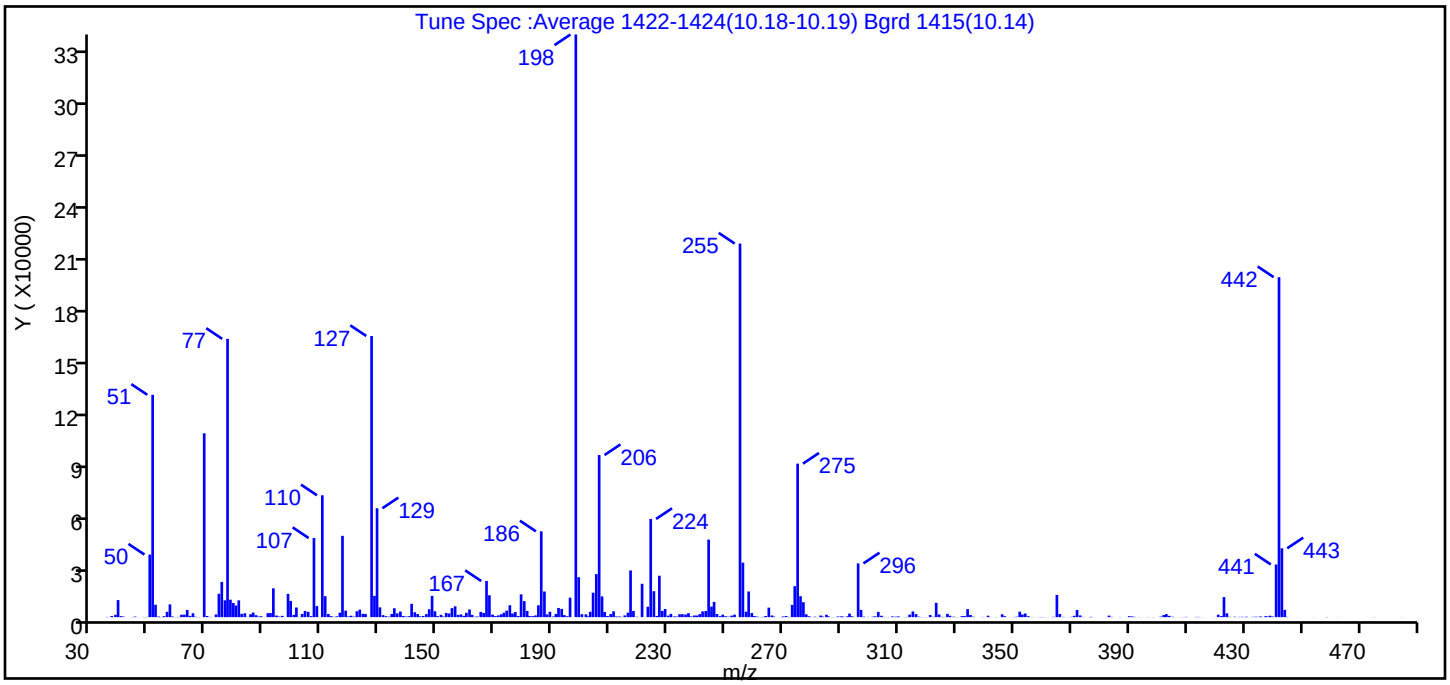
MB_DFTPP_WRK_00384 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d
Injection Date: 01-Dec-2020 16:25:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (171.4)
51	10-80% of the base peak	38.2
68	<2% of mass 69	0.0 (0.0)
69	Present	31.6
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	48.3
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	26.3
365	>1% of mass 198	3.8
441	present but <24% of mass 442	9.0 (15.5)
442	base peak, or >50% of 198	58.3
443	15-24% of mass 442	11.8 (20.2)

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d\W-LVI-8270.rslt\spectra.d
Injection Date: 01-Dec-2020 16:25:30
Spectrum: Tune Spec :Average 1422-1424(10.18-10.19) Bgrd 1415(10.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 375

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	128	137.00	3241	234.00	1678	333.00	651
36.00	19	138.00	663	235.00	1710	334.00	4643
37.00	674	139.00	357	236.00	1556	335.00	1234
38.00	1342	140.00	527	237.00	2296	336.00	250
39.00	9886	141.00	7717	238.00	424	339.00	124
40.00	586	142.00	2821	239.00	941	341.00	835
41.00	302	143.00	1790	240.00	950	342.00	50
44.00	93	144.00	473	241.00	1745	344.00	101
45.00	322	145.00	688	242.00	3338	346.00	1638
46.00	36	146.00	1743	243.00	3590	347.00	546
48.00	102	147.00	4584	244.00	44904	350.00	90
49.00	122	148.00	12319	245.00	6098	351.00	264
50.00	36216	149.00	3389	246.00	8833	352.00	3158
51.00	128696	150.00	603	247.00	1789	353.00	1526
52.00	7147	151.00	1346	248.00	561	354.00	2106
53.00	353	152.00	343	249.00	1425	355.00	545
54.00	84	153.00	2446	250.00	528	356.00	102
55.00	568	154.00	2119	251.00	260	358.00	47
56.00	3083	155.00	5222	252.00	877	359.00	99
57.00	7382	156.00	6267	253.00	1453	360.00	82
58.00	387	157.00	1298	255.00	216256	361.00	45
59.00	87	158.00	1559	256.00	31536	362.00	51
60.00	158	159.00	742	257.00	3177	364.00	194
61.00	1402	160.00	2515	258.00	14856	365.00	12834
62.00	1466	161.00	4439	259.00	2357	366.00	1798
63.00	4130	162.00	1344	260.00	634	367.00	167
64.00	725	163.00	203	261.00	291	368.00	48
65.00	2241	164.00	349	262.00	78	369.00	33
66.00	211	165.00	3017	263.00	163	370.00	162
67.00	90	166.00	2425	264.00	661	371.00	764
69.00	106416	167.00	20912	265.00	5491	372.00	4139
70.00	663	168.00	12644	266.00	961	373.00	987
71.00	136	169.00	1468	267.00	296	374.00	126

Report Date: 01-Dec-2020 16:50:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d\W-LVI-8270.rslt\spectra.d
Injection Date: 01-Dec-2020 16:25:30
Spectrum: Tune Spec :Average 1422-1424(10.18-10.19) Bgrd 1415(10.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 375

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1529	170.00	598	269.00	96	377.00	91
74.00	13526	171.00	1004	270.00	403	377.00	170
75.00	20408	172.00	1642	271.00	636	382.00	39
76.00	9729	173.00	2548	272.00	147	383.00	881
77.00	161088	174.00	3769	273.00	7082	384.00	151
78.00	10098	175.00	6878	274.00	17936	387.00	87
79.00	8179	176.00	2099	275.00	88856	390.00	554
80.00	6737	177.00	2951	276.00	12096	391.00	439
81.00	9718	178.00	684	277.00	8640	392.00	155
82.00	1915	179.00	13193	278.00	1627	394.00	81
83.00	2229	180.00	9275	279.00	507	395.00	48
84.00	159	181.00	3616	280.00	49	396.00	39
85.00	1702	182.00	710	281.00	249	397.00	69
86.00	2644	183.00	589	282.00	61	398.00	79
87.00	1118	184.00	990	283.00	926	401.00	329
88.00	379	185.00	6876	284.00	352	402.00	1223
89.00	488	186.00	49656	285.00	1385	403.00	1776
90.00	34	187.00	14829	286.00	472	404.00	751
91.00	2307	188.00	1567	287.00	81	405.00	240
92.00	2350	189.00	3074	288.00	34	408.00	53
93.00	16696	190.00	365	289.00	389	409.00	63
94.00	903	191.00	1867	290.00	424	410.00	163
95.00	343	192.00	5317	291.00	328	413.00	148
96.00	746	193.00	4789	292.00	439	414.00	128
98.00	13479	194.00	1169	293.00	2055	415.00	41
99.00	9363	195.00	531	294.00	502	417.00	34
100.00	1350	196.00	11257	296.00	31120	420.00	62
101.00	5589	198.00	337280	297.00	4195	421.00	1431
102.00	132	199.00	23112	298.00	305	422.00	603
103.00	1800	200.00	1705	299.00	133	423.00	11616
104.00	3570	202.00	1635	301.00	265	424.00	2217
105.00	3088	202.00	473	302.00	485	425.00	178
106.00	577	203.00	3100	303.00	3053	427.00	230
107.00	45784	204.00	14163	304.00	812	428.00	144

Report Date: 01-Dec-2020 16:50:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d\W-LVI-8270.rslt\spectra.d
Injection Date: 01-Dec-2020 16:25:30
Spectrum: Tune Spec :Average 1422-1424(10.18-10.19) Bgrd 1415(10.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 375

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	6407	205.00	24912	305.00	127	429.00	214
110.00	70536	206.00	93824	306.00	109	430.00	147
111.00	12115	207.00	12012	308.00	442	431.00	207
112.00	1830	208.00	3023	309.00	302	432.00	47
113.00	583	209.00	700	310.00	413	433.00	185
114.00	190	210.00	1800	311.00	34	434.00	268
115.00	472	211.00	3378	312.00	77	436.00	361
116.00	2548	212.00	395	313.00	135	436.00	179
117.00	47064	213.00	366	314.00	1486	437.00	459
118.00	3747	214.00	162	315.00	3283	438.00	480
119.00	389	215.00	1004	316.00	1752	439.00	811
120.00	810	216.00	2580	317.00	288	440.00	380
121.00	281	217.00	27008	318.00	66	441.00	30496
122.00	3406	218.00	3587	319.00	41	442.00	196800
123.00	4359	219.00	239	320.00	74	443.00	39848
124.00	1930	221.00	19312	321.00	1224	444.00	4221
125.00	1845	223.00	6018	322.00	211	445.00	151
127.00	162752	224.00	56840	323.00	8290	449.00	37
128.00	12320	225.00	15021	324.00	1533	454.00	58
129.00	63032	226.00	716	325.00	159	459.00	60
130.00	5648	227.00	23960	326.00	128	459.00	68
131.00	1137	228.00	3619	327.00	1920	462.00	36
132.00	566	229.00	4746	328.00	818	463.00	35
133.00	289	230.00	869	329.00	245	474.00	40
134.00	1847	231.00	1892	330.00	91	475.00	78
135.00	5142	232.00	377	331.00	38	485.00	47
136.00	2192	233.00	364	332.00	565		

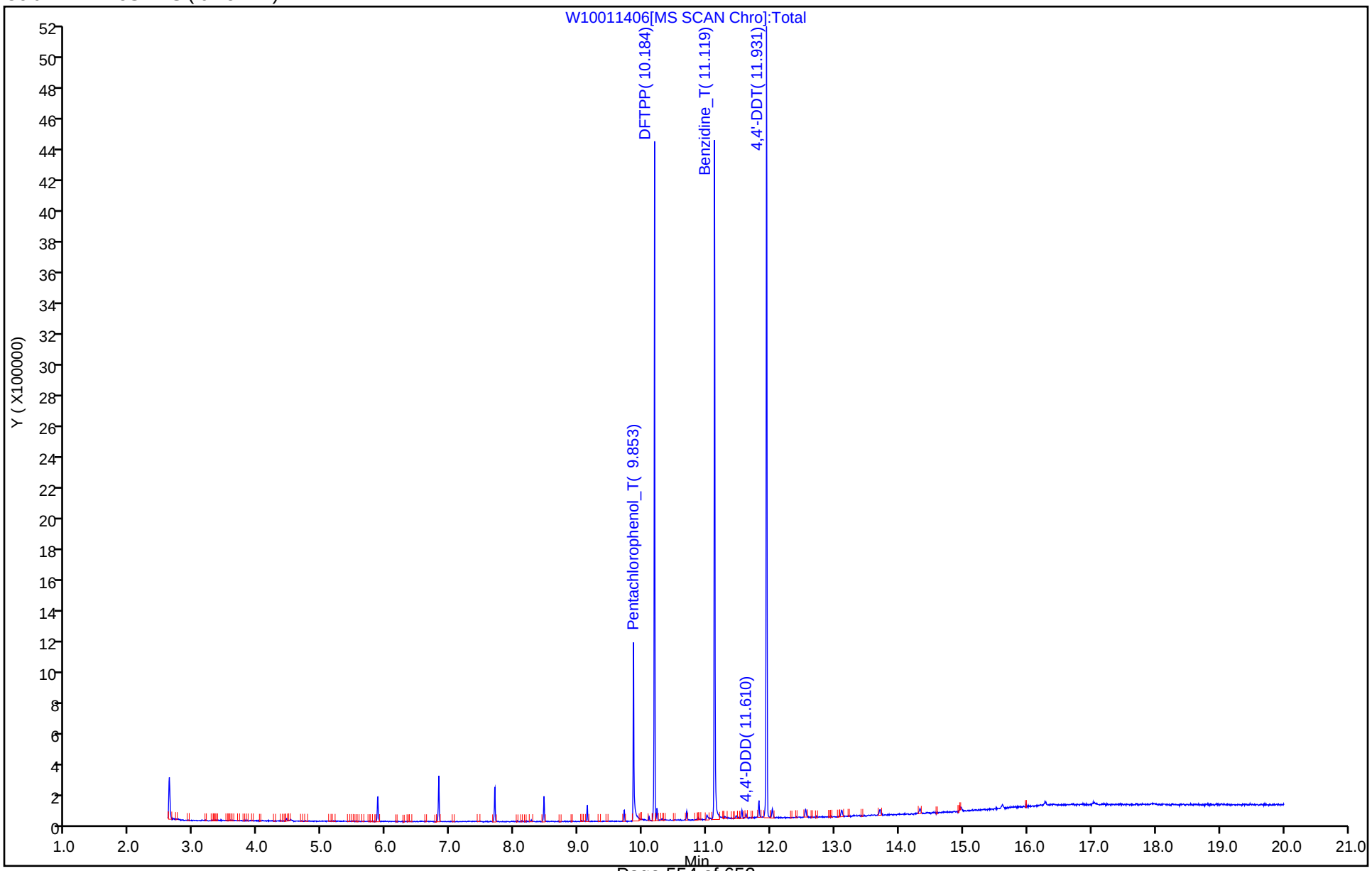
Report Date: 01-Dec-2020 16:50:24 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d

Injection Date:	01-Dec-2020 16:25:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

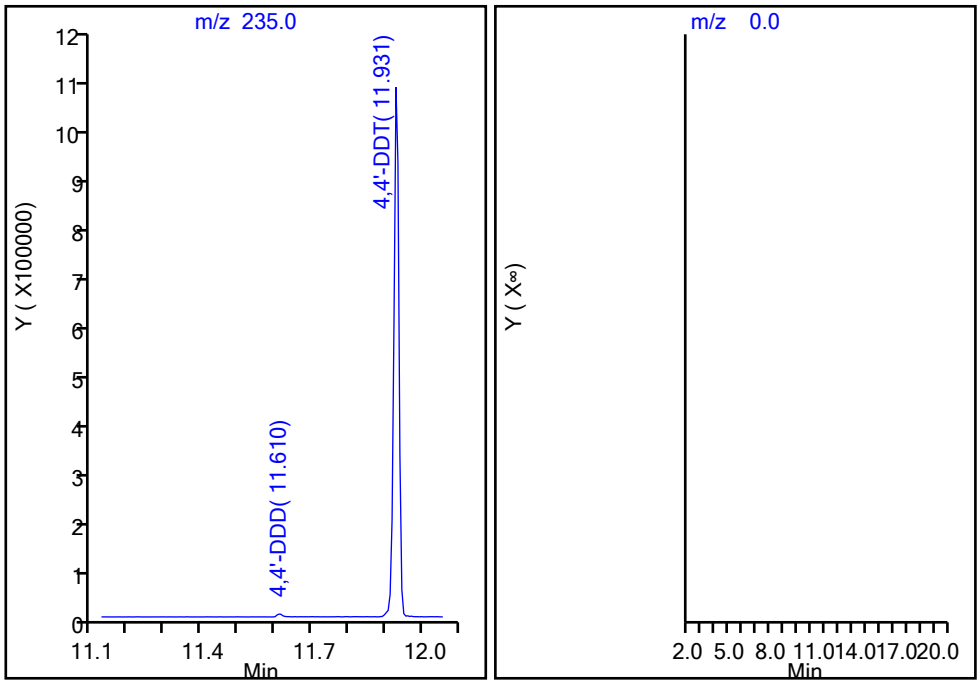


Breakdown Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d
Injection Date: 01-Dec-2020 16:25:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 984313
252 4,4'-DDD, Area = 6375
251 4,4'-DDE, Area = 0

%Breakdown: 0.64%, <= 20.00%
Passed

Peak Tailing Report

Eurofins TestAmerica, Buffalo

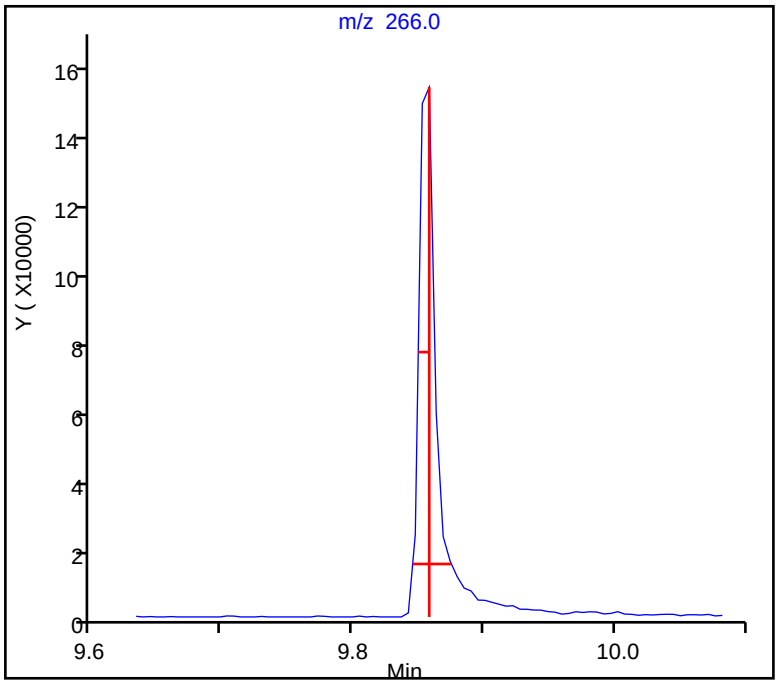
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d
Injection Date: 01-Dec-2020 16:25:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.3, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins TestAmerica, Buffalo

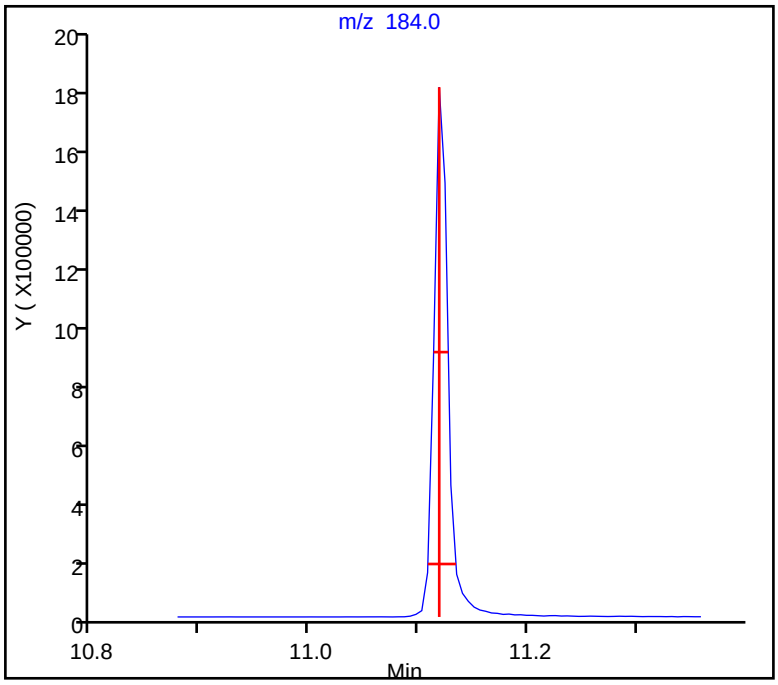
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011406.d
Injection Date: 01-Dec-2020 16:25:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.5, Max. Tailing <= 2.00
Passed



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 03-Dec-2020 15:05:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095412-002
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 03-Dec-2020 15:29:26 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: quirkp Date: 03-Dec-2020 15:29:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	9.837	9.837	0.000	93	179157	NR	NR	
249 DFTPP									
250 Benzidine_T	184	11.103	11.103	0.000	99	1556418	NR	NR	
251 4,4'-DDE	246		11.279					ND	
252 4,4'-DDD	235	11.594	11.594	0.000	96	4920		NR	
253 4,4'-DDT	235	11.909	11.909	0.000	98	940657	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

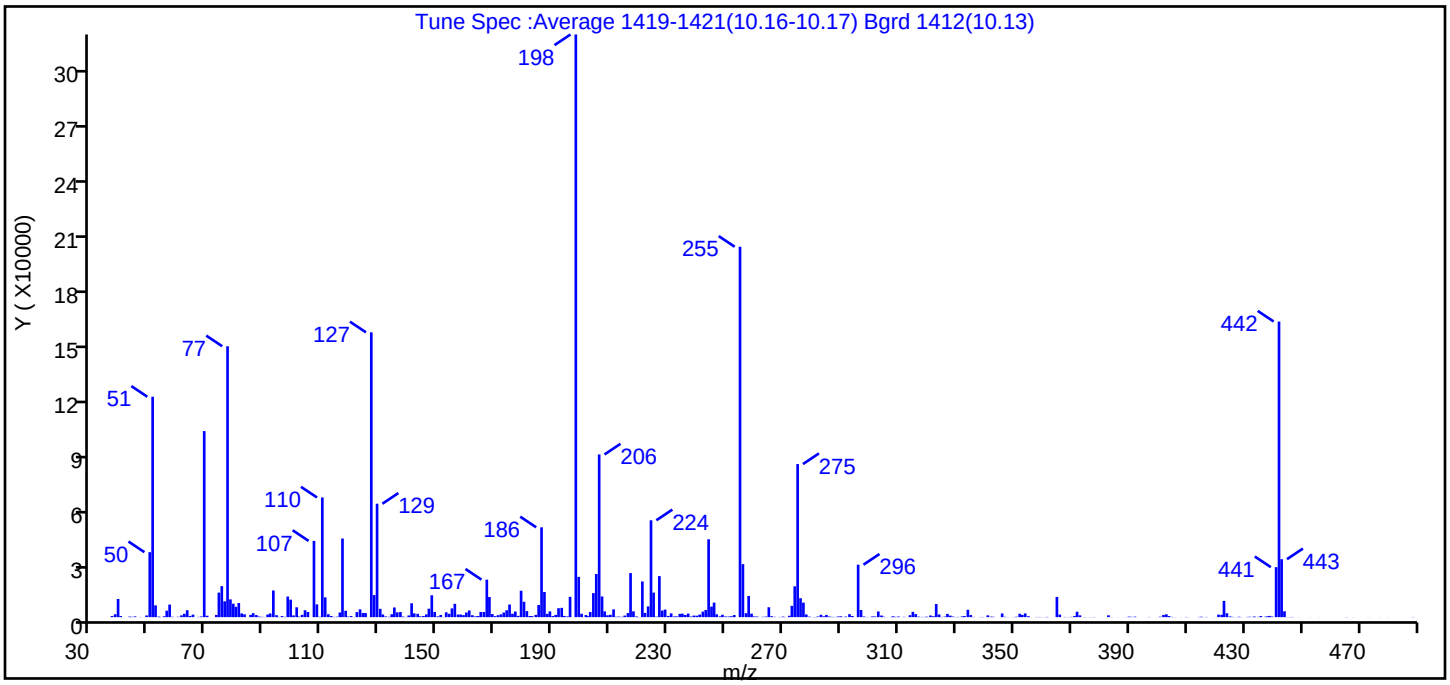
MB_DFTPP_WRK_00384 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d
Injection Date: 03-Dec-2020 15:05:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (197.1)
51	10-80% of the base peak	37.8
68	<2% of mass 69	0.1 (0.4)
69	Present	31.9
70	<2% of mass 69	0.2 (0.8)
127	10-80% of the base peak	48.9
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	26.3
365	>1% of mass 198	3.5
441	present but <24% of mass 442	8.6 (16.9)
442	base peak, or >50% of 198	50.7
443	15-24% of mass 442	9.9 (19.6)

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d\W-LVI-8270.rslt\spectra.d
Injection Date: 03-Dec-2020 15:05:30
Spectrum: Tune Spec :Average 1419-1421(10.16-10.17) Bgrd 1412(10.13)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	638	140.00	898	235.00	1884	334.00	3958
38.00	1567	141.00	7465	236.00	1162	335.00	1122
39.00	9775	142.00	2022	237.00	1912	336.00	121
40.00	591	143.00	1787	238.00	351	338.00	102
41.00	26	144.00	440	239.00	849	339.00	96
43.00	293	145.00	600	240.00	787	341.00	968
44.00	187	146.00	1477	241.00	1388	342.00	277
45.00	408	147.00	4553	242.00	2977	343.00	201
47.00	92	148.00	11781	243.00	3828	346.00	1976
49.00	917	149.00	2807	244.00	41936	347.00	177
50.00	34976	150.00	421	245.00	5681	348.00	48
51.00	118672	151.00	1156	246.00	7814	350.00	90
52.00	6344	152.00	87	247.00	1535	351.00	227
53.00	285	153.00	2592	248.00	439	352.00	1804
54.00	113	154.00	1802	249.00	1265	353.00	1206
55.00	476	155.00	4709	250.00	367	354.00	2002
56.00	3466	156.00	7157	251.00	327	355.00	516
57.00	6753	157.00	1399	252.00	493	356.00	53
58.00	210	158.00	1409	253.00	1125	358.00	106
60.00	208	159.00	1088	255.00	199424	359.00	111
61.00	958	160.00	2499	256.00	28544	360.00	35
62.00	1816	161.00	3599	257.00	2138	361.00	80
63.00	3721	162.00	1034	258.00	11423	362.00	122
64.00	667	163.00	431	259.00	1878	365.00	10874
65.00	1340	164.00	599	260.00	387	366.00	1381
67.00	154	165.00	2785	261.00	297	368.00	121
68.00	363	166.00	2774	263.00	174	369.00	68
69.00	100176	167.00	20184	264.00	312	370.00	143
70.00	756	168.00	10833	265.00	5319	371.00	591
73.00	1180	169.00	1655	266.00	515	372.00	2905
74.00	13204	170.00	538	267.00	166	373.00	973
75.00	16680	171.00	1057	269.00	117	374.00	51
76.00	8524	172.00	1500	270.00	300	375.00	64

Report Date: 03-Dec-2020 15:29:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d\W-LVI-8270.rslt\spectra.d
Injection Date: 03-Dec-2020 15:05:30
Spectrum: Tune Spec :Average 1419-1421(10.16-10.17) Bgrd 1412(10.13)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	145856	173.00	2494	271.00	95	377.00	80
78.00	9558	174.00	3722	272.00	746	378.00	96
79.00	7209	175.00	6792	273.00	6079	383.00	992
80.00	5552	176.00	1816	274.00	16592	384.00	84
81.00	7600	177.00	3005	275.00	82424	386.00	39
82.00	1999	178.00	703	276.00	10187	389.00	37
83.00	1534	179.00	14216	277.00	7810	390.00	286
84.00	17	180.00	8279	278.00	1439	391.00	167
85.00	1227	181.00	3284	279.00	289	392.00	292
86.00	2157	182.00	623	280.00	69	397.00	105
87.00	1116	183.00	565	281.00	70	400.00	54
88.00	360	184.00	1212	282.00	347	401.00	247
89.00	179	185.00	6559	283.00	1275	402.00	1197
90.00	91	186.00	48360	284.00	469	403.00	1522
91.00	1400	187.00	13522	285.00	1202	404.00	588
92.00	1974	188.00	1753	286.00	365	405.00	155
93.00	14345	189.00	3105	287.00	156	406.00	54
94.00	1062	190.00	573	288.00	118	408.00	47
95.00	153	191.00	1213	289.00	359	410.00	111
96.00	576	192.00	4810	290.00	450	411.00	48
97.00	175	193.00	4998	291.00	43	414.00	128
98.00	11085	194.00	654	292.00	318	415.00	226
99.00	9407	195.00	388	293.00	1589	416.00	40
100.00	934	196.00	10933	294.00	612	417.00	103
101.00	5298	198.00	313728	296.00	28248	420.00	37
102.00	301	199.00	21688	297.00	3844	421.00	1384
103.00	1241	200.00	1822	298.00	354	422.00	1264
104.00	3719	202.00	1143	299.00	99	423.00	8754
105.00	2778	202.00	621	300.00	46	424.00	2097
107.00	41040	203.00	2752	301.00	392	425.00	390
108.00	6873	204.00	12951	302.00	345	426.00	144
109.00	202	205.00	23240	303.00	3040	427.00	58
110.00	64432	206.00	87592	304.00	863	428.00	222
111.00	10685	207.00	11143	305.00	238	429.00	70

Report Date: 03-Dec-2020 15:29:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d\W-LVI-8270.rslt\spectra.d
Injection Date: 03-Dec-2020 15:05:30
Spectrum: Tune Spec :Average 1419-1421(10.16-10.17) Bgrd 1412(10.13)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1564	208.00	3104	306.00	53	431.00	124
113.00	600	209.00	1015	308.00	84	432.00	207
114.00	124	210.00	1276	308.00	469	433.00	216
115.00	249	211.00	4188	309.00	175	434.00	260
116.00	2486	212.00	213	310.00	350	435.00	146
117.00	42336	213.00	294	312.00	169	436.00	574
118.00	3428	214.00	192	313.00	24	437.00	230
119.00	292	215.00	846	314.00	1055	438.00	431
120.00	604	216.00	2188	315.00	2851	439.00	663
121.00	68	217.00	23728	316.00	1645	440.00	327
122.00	2714	218.00	3118	317.00	274	441.00	26920
123.00	4201	219.00	377	318.00	135	442.00	159168
124.00	2209	220.00	64	319.00	115	443.00	31200
125.00	2206	221.00	19208	320.00	244	444.00	3149
127.00	153344	222.00	2261	321.00	902	445.00	68
128.00	11892	223.00	5780	322.00	496	446.00	79
129.00	61064	224.00	52160	323.00	7056	447.00	110
130.00	4478	225.00	13200	324.00	1463	449.00	40
131.00	1448	226.00	262	325.00	120	453.00	44
132.00	382	227.00	22104	326.00	294	456.00	40
133.00	194	228.00	3556	327.00	1750	465.00	58
134.00	1553	229.00	4066	328.00	814	466.00	37
135.00	5216	230.00	663	329.00	301	468.00	52
136.00	2571	231.00	2027	330.00	72	473.00	38
137.00	2752	232.00	377	331.00	129	477.00	37
138.00	332	233.00	399	332.00	388	480.00	39
139.00	90	234.00	1745	333.00	589	489.00	99

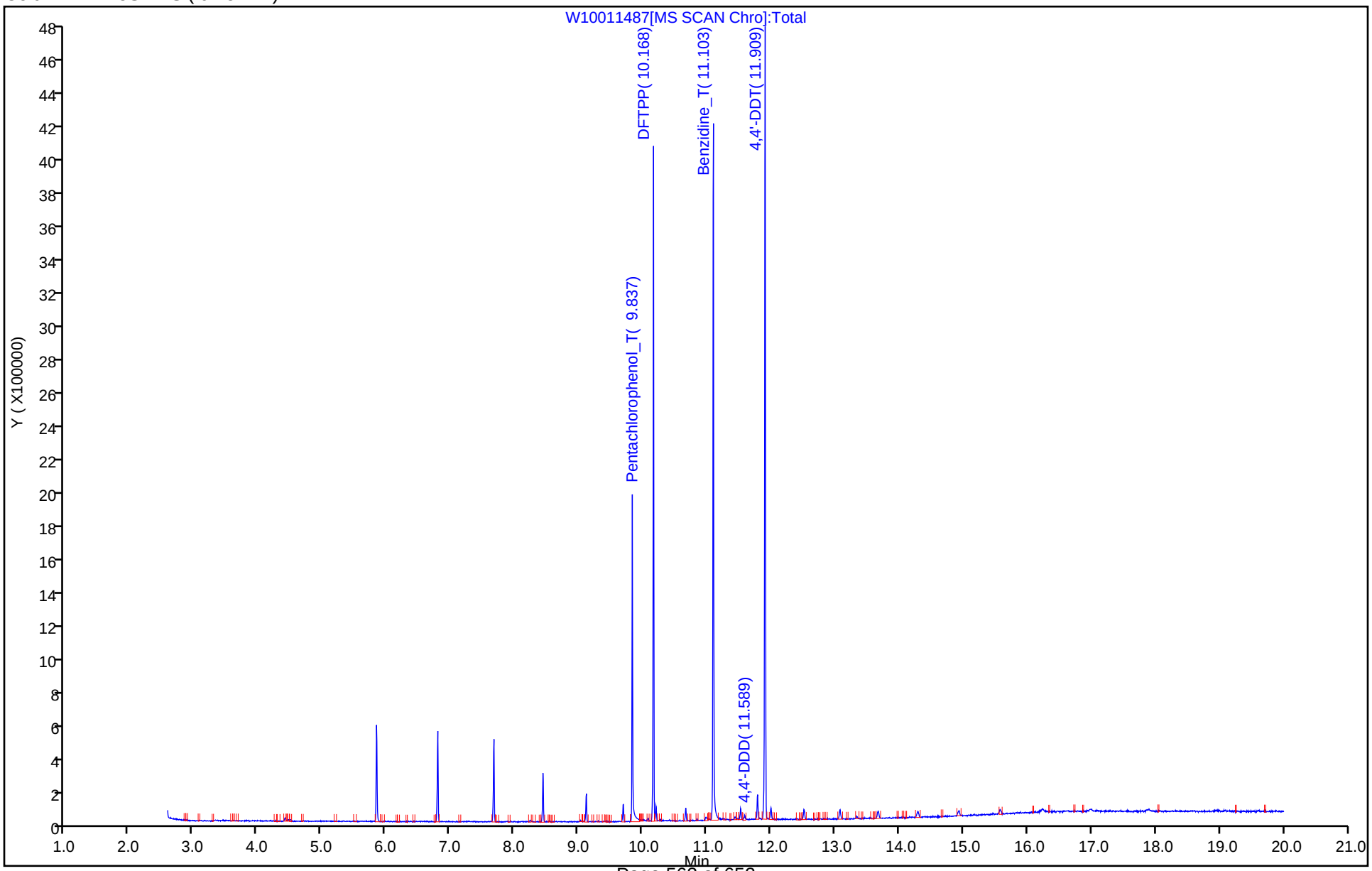
Report Date: 03-Dec-2020 15:29:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d

Injection Date:	03-Dec-2020 15:05:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Breakdown Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d
Injection Date: 03-Dec-2020 15:05:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

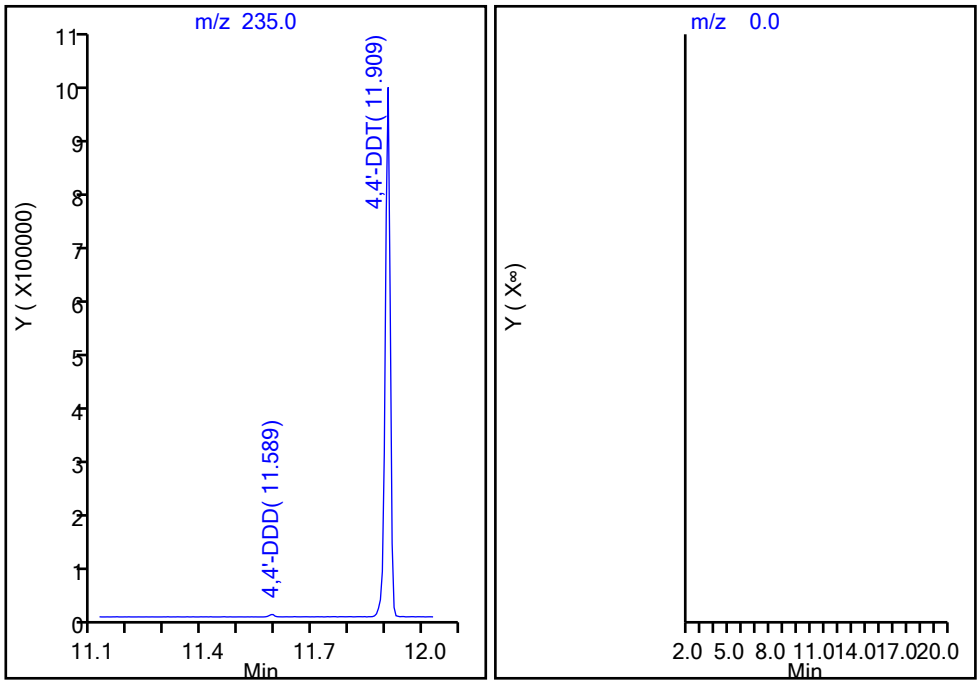
253 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 940657
252 4,4'-DDD, Area = 4920
251 4,4'-DDE, Area = 0

%Breakdown: 0.52%, <= 20.00%
Passed



Peak Tailing Report

Eurofins TestAmerica, Buffalo

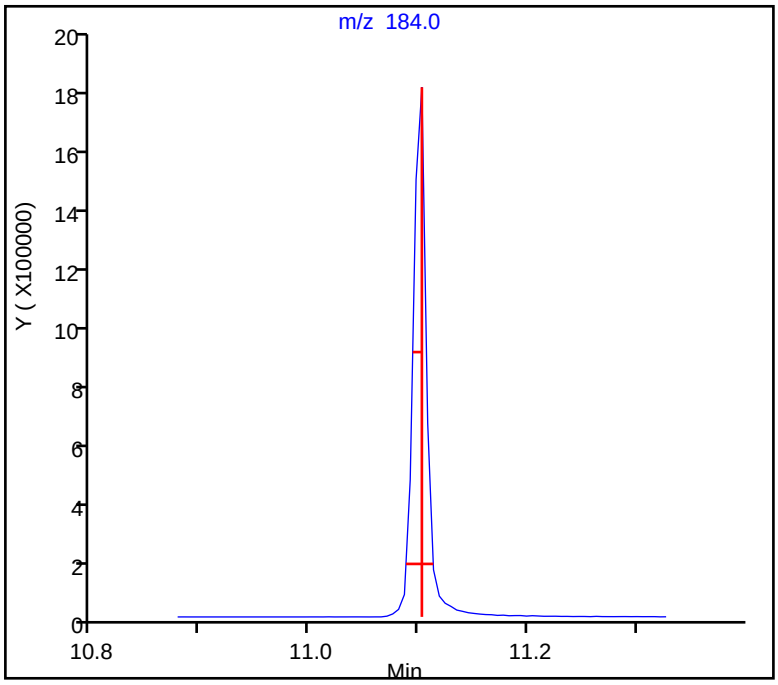
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d
Injection Date: 03-Dec-2020 15:05:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins TestAmerica, Buffalo

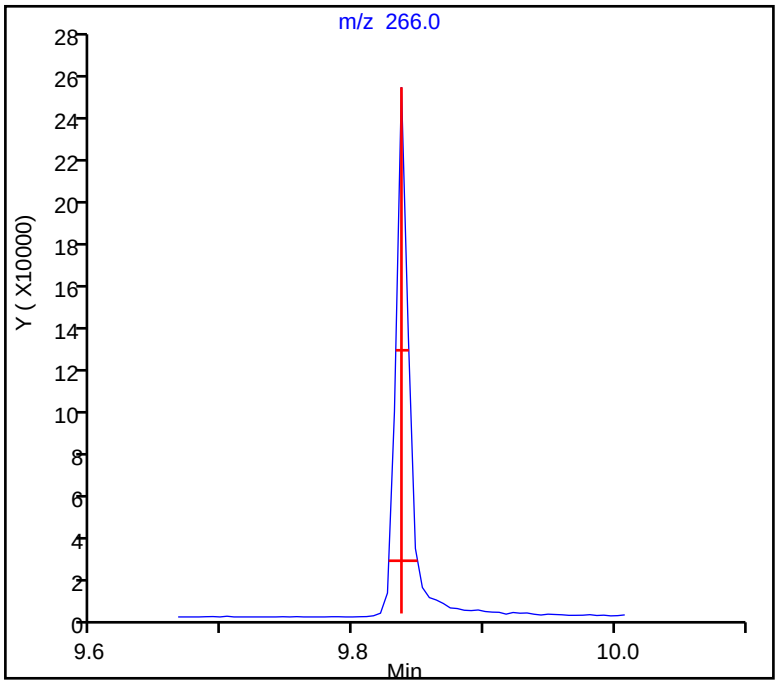
Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201203-95412.b\W10011487.d
Injection Date: 03-Dec-2020 15:05:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-561284/1-A

Matrix: Water Lab File ID: W10011410.d

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/01/2020 18:20

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.: 561494 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	92		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	89		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	114		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011410.d
Lims ID: MB 480-561284/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Dec-2020 18:20:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-006
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:44:49 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:44:49

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	6.215	6.215	0.000	94	256138	4.00	4.00	
* 2 Naphthalene-d8	136	7.299	7.299	0.000	99	912139	4.00	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	93	521508	4.00	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	912600	4.00	4.00	
* 5 Chrysene-d12	240	12.534	12.540	-0.006	99	784851	4.00	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	738172	4.00	4.00	
$ 7 2-Fluorophenol	112	5.087	5.071	0.015	90	436186	8.00	5.69	
$ 8 Phenol-d5	99	5.905	5.899	0.005	99	369227	8.00	4.13	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	521761	8.00	7.14	
$ 10 2-Fluorobiphenyl	172	8.186	8.186	0.000	99	1334054	8.00	7.35	
$ 11 2,4,6-Tribromophenol	330	9.431	9.431	0.000	92	165008	8.00	6.57	
$ 12 p-Terphenyl-d14	244	11.343	11.333	0.005	98	1881572	8.00	9.15	
13 o-Anisidine	1		0.750					ND	
14 1,4-Dioxane	88		3.063					ND	
15 N-Nitrosodimethylamine	42		3.549					ND	
16 Pyridine	52		3.581					ND	
20 2-Picoline	93		4.462					ND	
21 N-Nitrosomethylethylamine	88		4.591					ND	
19 1-Methylcyclopentanol	71		4.633					ND	
25 Acrylamide	44		4.884					ND	U
24 Methyl methanesulfonate	80		4.890					ND	
22 2-Chlorobenzotrifluoride	180		5.189					ND	
23 4-Chlorobenzotrifluoride	180		5.258					ND	
30 N-Nitrosodiethylamine	102		5.264					ND	
26 n,n'-Dimethylacetamide	87		5.317					ND	
27 4-Chloropyridine	78	5.525	5.520	0.005	0	554		NC	
32 Ethyl methanesulfonate	79		5.531					ND	
28 3-Chloropyridine	78		5.584					ND	
29 3-Chlorobenzotrifluoride	180		5.659					ND	
36 Benzaldehyde	77		5.835					ND	U
37 Phenol	94		5.910					ND	U
38 Aniline	93		5.932					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
31 2-Chloropyridine	78		5.942					ND	
39 Pentachloroethane	167		5.969					ND	
40 Bis(2-chloroethyl)ether	93		5.969					ND	
41 2-Chlorophenol	128		6.044					ND	
43 n-Decane	57	6.054	6.054	0.000	92	6475		0.0817	
33 2-Chlorotoluene	91		6.097					ND	
34 3-Chlorotoluene	91		6.119					ND	
35 4-Chlorotoluene	91		6.151					ND	
44 1,3-Dichlorobenzene	146		6.167					ND	
45 1,4-Dichlorobenzene	146		6.225					ND	
46 Benzyl alcohol	108		6.332					ND	
47 1,2-Dichlorobenzene	146		6.364					ND	
42 p-Fluoroaniline	111		6.423					ND	
49 2-Methylphenol	108		6.423					ND	
50 2,2'-oxybis[1-chloropropane]	45		6.428					ND	
48 Indene	115		6.439					ND	U
52 N-Nitrosopyrrolidine	100		6.524					ND	
55 N-Nitrosodi-n-propylamine	70		6.541					ND	
56 4-Methylphenol	108		6.551					ND	
53 Acetophenone	105	6.551	6.551	0.000	96	4923		0.0487	
54 N-Nitrosomorpholine	56		6.556					ND	
57 2-Toluidine	106		6.583					ND	
59 Hexachloroethane	117		6.653					ND	
61 Nitrobenzene	77		6.701					ND	
58 4-Methylbenzenamine	106		6.728					ND	
66 n,n'-Dimethylaniline	120	6.695	6.733	-0.038	1	56		NC	
62 N-Nitrosopiperidine	114		6.824					ND	
51 N-Methylaniline	106		6.872					ND	
63 Isophorone	82		6.893					ND	
67 2-Nitrophenol	139		6.973					ND	
68 2,4-Dimethylphenol	107		6.995					ND	
70 o,o',o''-Triethylphosphorothioat	198		7.027					ND	
71 Bis(2-chloroethoxy)methane	93		7.059					ND	
65 2-Chloroaniline	127		7.075					ND	
60 2,6-Dichloropyridine	112		7.085					ND	
240 2,4-Dichlorotoluene	125		7.086					ND	
72 Benzoic acid	105		7.102					ND	
73 alpha,alpha-Dimethyl phenethylam	58		7.144					ND	
231 1,3,5-Trichlorobenzene	180		7.166					ND	
69 Tetraethyl lead	237		7.171					ND	
74 2,4-Dichlorophenol	162		7.176					ND	
75 1,2,4-Trichlorobenzene	180		7.246					ND	
64 Benzeneacetonitrile	117		7.294					ND	
76 Naphthalene	128		7.315					ND	
78 4-Chloroaniline	127		7.353					ND	
79 2,6-Dichlorophenol	162		7.363					ND	
80 Hexachloropropene	213		7.390					ND	
81 Hexachlorobutadiene	225		7.411					ND	
77 Alpha-Terpineol	59		7.438					ND	
222 4-Chlorophenol	128		7.443					ND	
83 Quinoline	129		7.593					ND	
86 N-Nitrosodi-n-butylamine	84		7.609					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 p-Phenylene diamine	108		7.636					ND	
84 Caprolactam	113		7.646					ND	
87 4-Chloro-3-methylphenol	107		7.748					ND	
88 Safrole, Total	162		7.801					ND	
82 Benzeneacetic acid (TIC)	91		7.817					ND	
89 2-Methylnaphthalene	142	7.892	7.886	0.000	76	1759		0.0109	
91 1-Methylnaphthalene	142		7.978					ND	U
93 Hexachlorocyclopentadiene	237		8.026					ND	
92 1,2,4,5-Tetrachlorobenzene	216		8.036					ND	
288 Isosafrole Peak 1	162		8.042					ND	
90 Phthalic anhydride	104		8.069					ND	
211 2,4,5-Trichlorotoluene	159		8.079					ND	
94 2,4,6-Trichlorophenol	196		8.127					ND	
247 2,3-Dichlorobenzenamine	161	8.213	8.126	0.080	1	148		NC	
95 2,4,5-Trichlorophenol	196		8.165					ND	
290 Isosafrole Peak 2	162		8.234					ND	
96 Isosafrole	162		8.234					ND	
97 1,1'-Biphenyl	154		8.272					ND	7
98 2-Chloronaphthalene	162		8.304					ND	
99 1-Chloronaphthalene	162		8.325					ND	U
100 2-Nitroaniline	65		8.378					ND	
101 1,4-Naphthoquinone	158		8.442					ND	
207 1,2,3,4 -Tetrachlorobenzene	216		8.469					ND	
103 1,4-Dinitrobenzene	168		8.480					ND	
104 Dimethyl phthalate	163		8.507					ND	
105 1,3-Dinitrobenzene	168		8.549					ND	
106 2,6-Dinitrotoluene	165		8.565					ND	
102 Dicyclohexylamine	138		8.587					ND	
107 Acenaphthylene	152		8.656					ND	
108 3-Nitroaniline	138		8.720					ND	
109 Acenaphthene	153		8.795					ND	
110 2,4-Dinitrophenol	184		8.806					ND	
111 4-Nitrophenol	109		8.854					ND	
113 2,4-Dinitrotoluene	165		8.907					ND	
112 Pentachlorobenzene	250		8.912					ND	
114 Dibenzofuran	168		8.939					ND	U
115 1-Naphthylamine	143		8.998					ND	
116 2,3,5,6-Tetrachlorophenol	232		9.003					ND	
117 2,3,4,6-Tetrachlorophenol	232		9.041					ND	
118 2-Naphthylamine	143		9.062					ND	
120 Hexadecane	57		9.078					ND	U
119 Diethyl phthalate	149	9.078	9.083	-0.006	80	3612		0.0221	
121 Thionazin	97		9.153					ND	
122 4-Chlorophenyl phenyl ether	204		9.201					ND	
124 N-Nitro-o-toluidine	152		9.222					ND	
123 Fluorene	166		9.228					ND	
125 4-Nitroaniline	138		9.233					ND	
126 4,6-Dinitro-2-methylphenol	198		9.255					ND	
129 N-Nitrosodiphenylamine	169		9.297					ND	
128 Diphenylamine	169		9.297					ND	
130 1,2-Diphenylhydrazine	77		9.335					ND	
131 Azobenzene	77		9.335					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
127 Tributyl phosphate	99		9.372					ND	
132 Sulfotepp	322		9.399					ND	
133 1,3,5-Trinitrobenzene	213		9.516					ND	
135 Diallate	86		9.527					ND	
291 Diallate Peak 1	86		9.527					ND	
134 Phorate	75		9.532					ND	
136 Phenacetin	108		9.537					ND	
293 Diallate Peak 2	86		9.602					ND	
137 4-Bromophenyl phenyl ether	248		9.612					ND	
139 Dimethoate	87		9.682					ND	
138 Hexachlorobenzene	284		9.698					ND	
141 Atrazine	200		9.725					ND	
142 4-Aminobiphenyl	169		9.831					ND	
146 n-Octadecane	57		9.837					ND	U
140 Simazine	201		9.837					ND	
145 Pronamide	173		9.858					ND	
143 Pentachlorophenol	266		9.858					ND	
144 Pentachloronitrobenzene	237		9.863					ND	
147 Disulfoton	88		9.965					ND	U
148 Dinoseb	211		9.981					ND	
149 Phenanthrene	178	10.034	10.034	0.000	93	5963		0.0237	
150 Anthracene	178		10.077					ND	
155 CBF-400	214		10.093					ND	
151 Carbazole	167		10.200					ND	
152 Methyl parathion	109		10.291					ND	
153 Alachlor	160		10.430					ND	
154 Di-n-butyl phthalate	149	10.435	10.435	0.000	97	5164		0.0195	
156 Ethyl Parathion	97		10.601					ND	
157 4-Nitroquinoline-1-oxide	190		10.670					ND	
163 Octachlorostyrene	308		10.697					ND	
159 Methapyrilene	58		10.697					ND	
205 2-Methylanthracene	192	10.691	10.692	-0.006	1	113		NC	
158 Anthraquinone	180		10.841					ND	
160 Isodrin	193		10.905					ND	
161 Fluoranthene	202		11.033					ND	U
164 Benzidine	184		11.119					ND	
165 Pyrene	202		11.242					ND	U
289 Aramite Peak 1	185		11.279					ND	
162 1-Hydroxyanthraquinone	224		11.279					ND	
166 Aramite, Total	185		11.348					ND	
292 Aramite Peak 2	185		11.348					ND	U
168 p-Dimethylamino azobenzene	120		11.471					ND	
176 CAG-800	149		11.482					ND	7
169 Chlorobenzilate	139		11.498					ND	
167 1,4-Dihydroxyanthraquinone	240		11.669					ND	
172 Butyl benzyl phthalate	149	11.792	11.787	0.000	94	4964		0.1208	
171 3,3'-Dimethylbenzidine	212		11.813					ND	U
170 Famphur	218		11.926					ND	
254 CBF-500	161		11.958					ND	7
182 NVF-400	82		11.958					ND	7
173 9-Octadecenamide	72		11.990					ND	
175 2-Acetylaminofluorene	181		12.107					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
174 Kepone	272		12.113					ND	
180 Bis(2-ethylhexyl) phthalate	149		12.438					ND	
178 4,4'-Methylene bis(2-chloroanil	231		12.444					ND	
177 3,3'-Dichlorobenzidine	252		12.460					ND	
179 Benzo[a]anthracene	228		12.524					ND	
181 Chrysene	228		12.572					ND	
183 6-Methylchrysene	242		13.165					ND	U
184 Di-n-octyl phthalate	149		13.309					ND	
185 7,12-Dimethylbenz(a)anthracene	256		13.988					ND	
186 Benzo[b]fluoranthene	252		14.014					ND	
187 Benzo[k]fluoranthene	252		14.052					ND	
189 Benzo[a]pyrene	252		14.511					ND	
188 Hexachlorophene	196		14.575					ND	U
255 CN-500	112		14.816					ND	7
206 Benzo[e]pyrene	252	14.816	14.814	-0.005	1	169			NC
256 CU-600	58		14.842					ND	7
190 3-Methylcholanthrene	252		15.035					ND	
192 Dibenz[a,h]acridine	279		15.863					ND	U
193 Indeno[1,2,3-cd]pyrene	276		16.242					ND	
194 Dibenz(a,h)anthracene	278		16.247					ND	
195 Benzo[g,h,i]perylene	276		16.686					ND	
196 Dibenzo[a,e]pyrene	302		20.681					ND	
208 Lidocaine	1		0.000					ND	
305 1-Bromo-4-ethylbenzene TIC	1		0.000					ND	
304 1-Bromo-3-fluorobenzene TIC	1		0.000					ND	
307 1-Bromo-2-chloroethane TIC	1		0.000					ND	
301 1,2-dichloro-4-(trifluoromethyl)	1		0.000					ND	
295 1,3-Dibromobenzene TIC	1		0.000					ND	
300 4-Bromofluorobenzene TIC	1		0.000					ND	
299 3'-Bromoacetophenone TIC	1		0.000					ND	
303 2-Bromopyridine TIC	1		0.000					ND	
298 3-Nitro-4-Chlorobenzotrifluoride	1		0.000					ND	
197 1,2,3-Trimethylbenzene	105		0.000					ND	
302 Fluorobenzene TIC	1		0.000					ND	
296 1,4-Dibromobenzene TIC	1		0.000					ND	
306 3-Amino-4-Chlorobenzotrifluoride	1		0.000					ND	
297 Ethylene Dibromide TIC	1		0.000					ND	
244 2,4-Toluene diamine	1		0.750					ND	
221 Hexamethyldisiloxane TIC	1		0.750					ND	
235 Pendimethalin	1		0.750					ND	
213 Prometryn (TIC)	1		0.750					ND	
223 1-Bromopropane	1		0.750					ND	
217 Dibenz[a,j]acridine	279		0.750					ND	
212 trans Azobenzene (TIC)	1		0.750					ND	
220 Tetramethyl lead TIC	1		0.750					ND	
214 2,3-Dichlorophenol	1		0.750					ND	
230 Dibenz(a,i)pyrene	1		0.750					ND	
243 2-Chlorobenzotrifluoride TIC	1		0.750					ND	
226 Phenylmercaptan	110		0.750					ND	
227 2,6-Dichlorotoluene TIC	1		0.750					ND	
246 Phenylacetic Acid	1		0.750					ND	
224 4-Chlorobenzotrifluoride TIC	1		0.750					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
234 Dibenzo[a,h]pyrene	1		0.750					ND	
218 Pendimethalin (TIC)	1		0.750					ND	
238 Benefin (TIC)	1		0.750					ND	
225 2,4-Dichlorotoluene TIC	1		0.750					ND	
245 3-Chlorobenzotrifluoride TIC	1		0.750					ND	
241 5-Methyl-o-Anisidine	1		0.750					ND	
229 7H-Dibenzo[c,g]carbazole	1		0.750					ND	
252 4,4'-DDD	235		11.610					ND	
S 260 Chlorobenzotrifluoride N.O.S	1		0.750					ND	7
S 259 EPH Adjustment 1	1		0.750					ND	7
S 257 3 & 4 Methylphenol	108		0.750					ND	7
S 261 Chlorotoluene N.O.S	1		0.750					ND	7
S 262 Total Cresols	1		0.750					ND	7
S 258 3-Methylphenol	1		0.750					ND	7

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

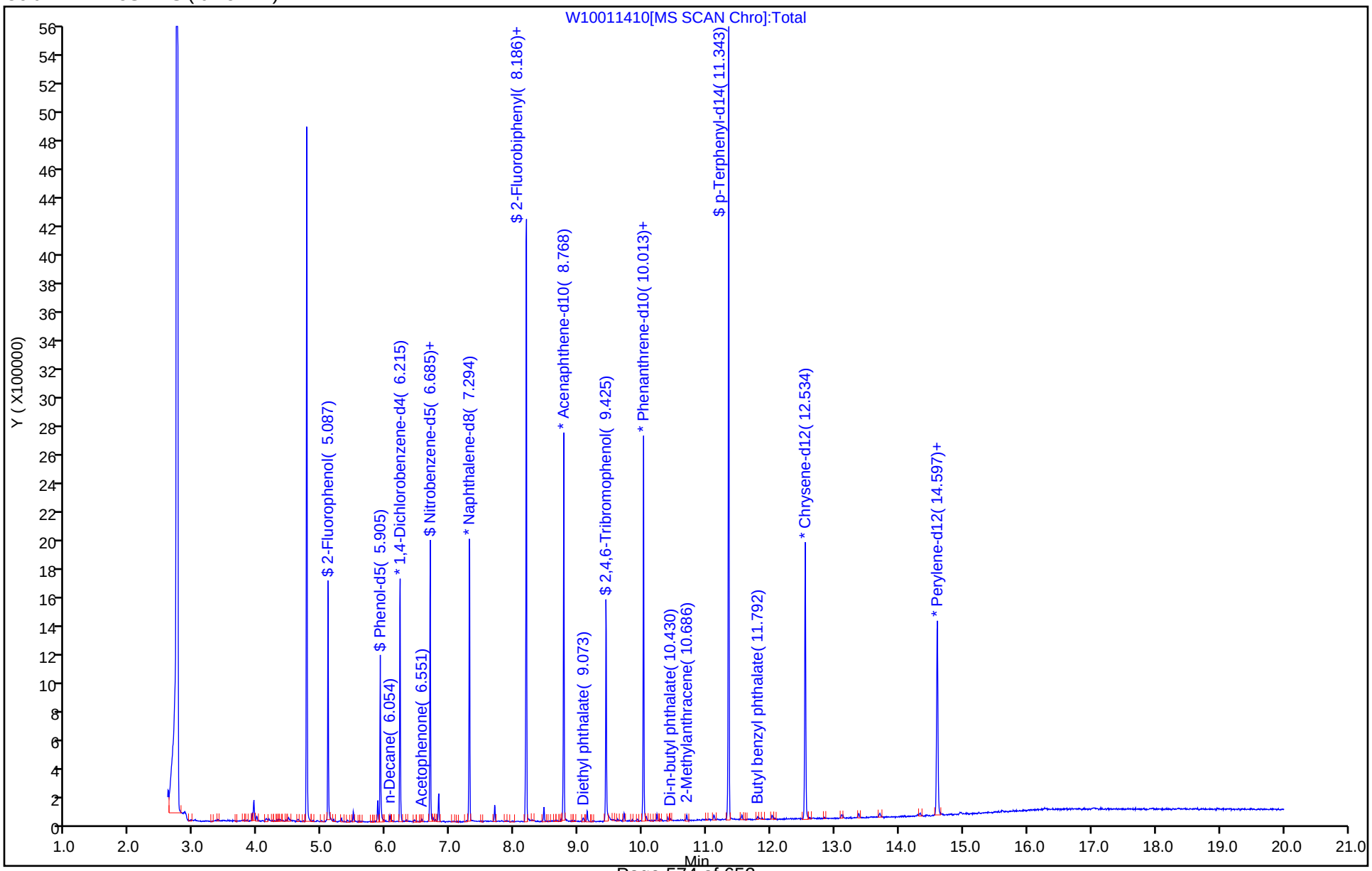
Report Date: 02-Dec-2020 12:44:50 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011410.d

Injection Date:	01-Dec-2020 18:20:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	MB 480-561284/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



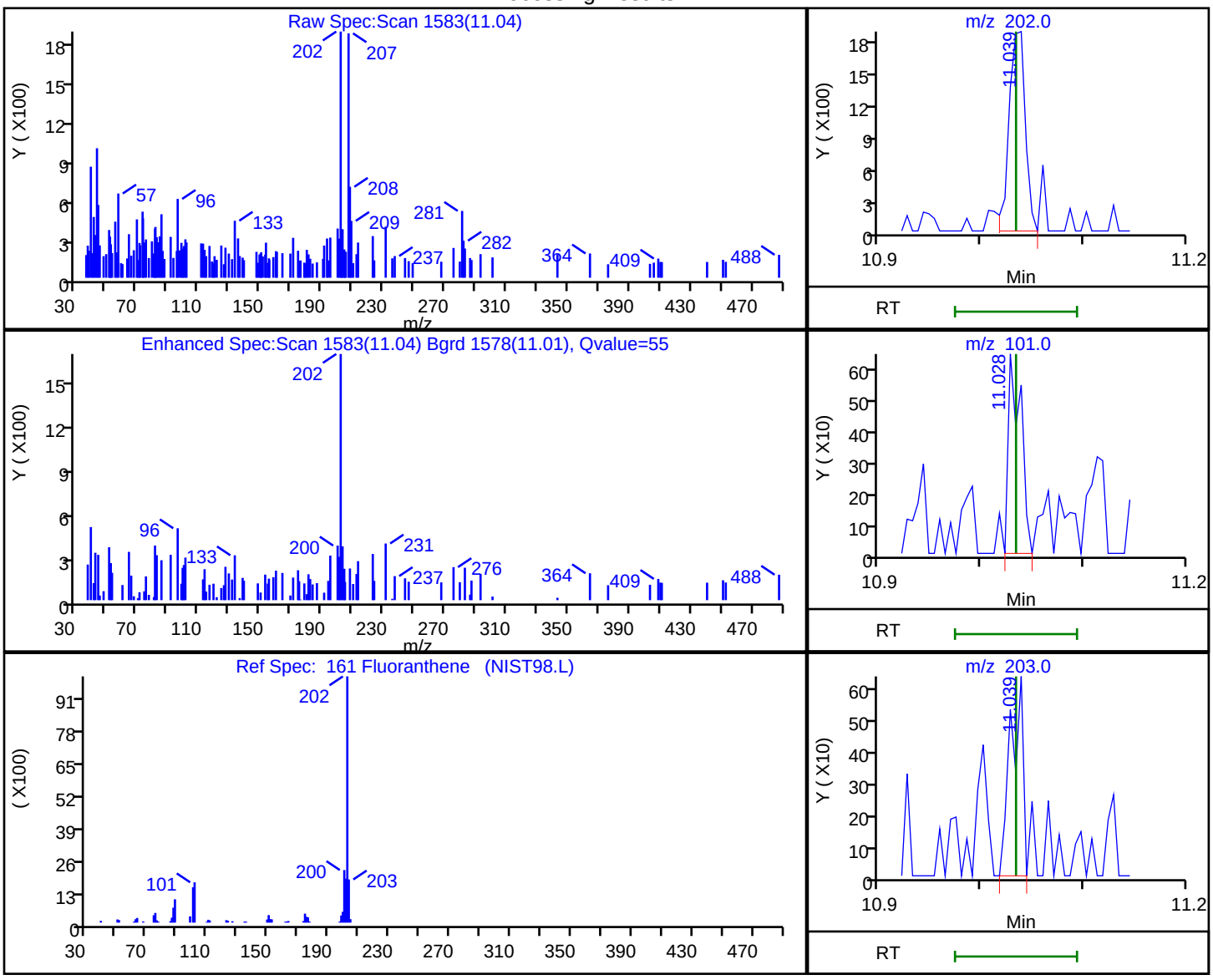
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011410.d				
Injection Date:	01-Dec-2020 18:20:30	Instrument ID:	HP5973W		
Lims ID:	MB 480-561284/1-A				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

161 Fluoranthene, CAS: 206-44-0

Processing Results



RT	Mass	Response	Amount
11.04	202.00	2021	0.007580
11.03	101.00	556	
11.04	203.00	540	

Reviewer: quirkp, 02-Dec-2020 12:43:55

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

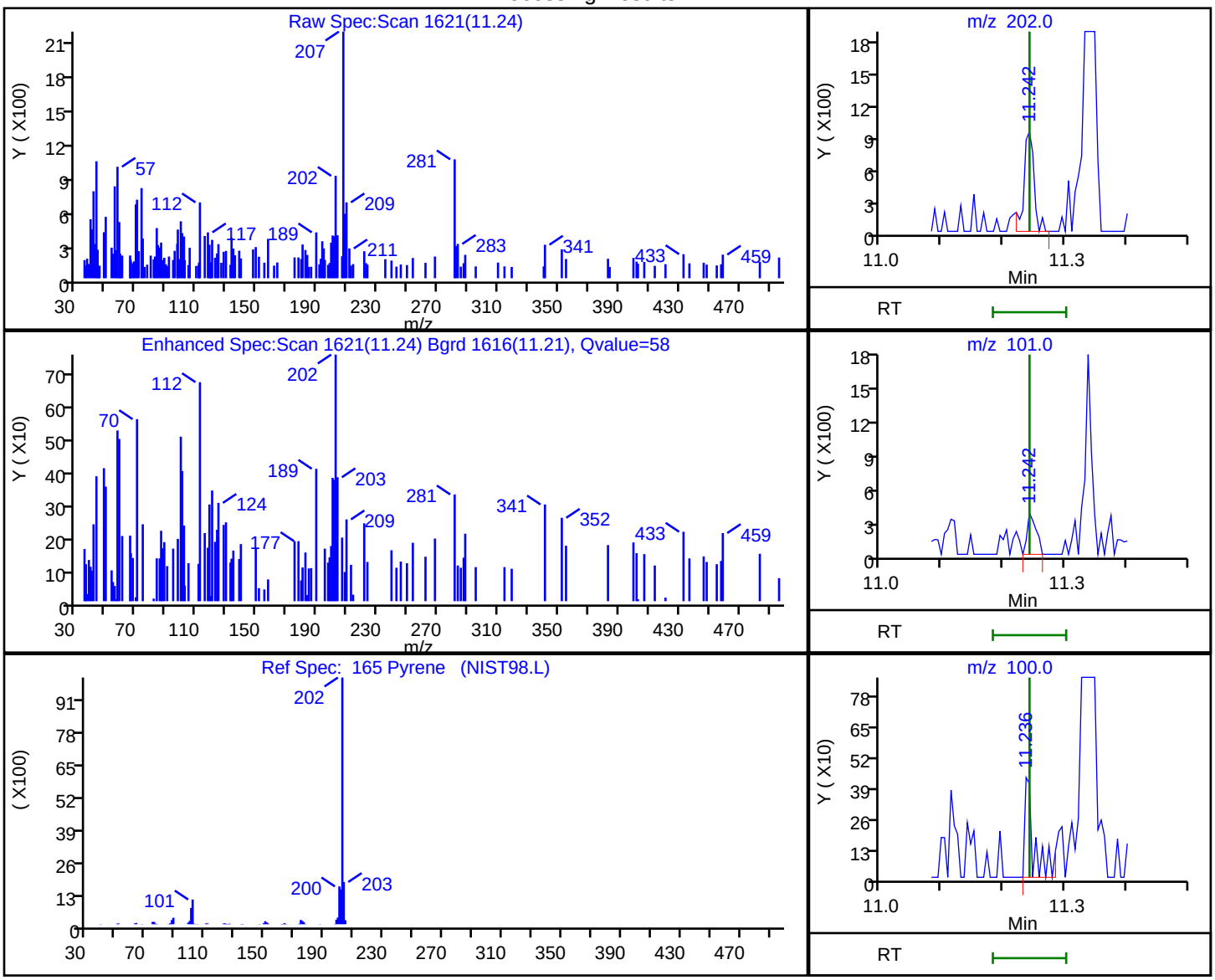
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011410.d				
Injection Date:	01-Dec-2020 18:20:30	Instrument ID:	HP5973W		
Lims ID:	MB 480-561284/1-A				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

165 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.24	202.00	1047	0.004293
11.24	101.00	377	
11.24	100.00	442	

Reviewer: quirkp, 02-Dec-2020 12:43:59

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-561284/2-A

Matrix: Water Lab File ID: W10011411.d

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/01/2020 18:48

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.: 561494 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	26.3		5.0	0.41
208-96-8	Acenaphthylene	25.8		5.0	0.38
120-12-7	Anthracene	27.2		5.0	0.28
56-55-3	Benzo[a]anthracene	28.2		5.0	0.36
50-32-8	Benzo[a]pyrene	29.6		5.0	0.47
205-99-2	Benzo[b]fluoranthene	32.1		5.0	0.34
191-24-2	Benzo[g,h,i]perylene	31.9		5.0	0.35
207-08-9	Benzo[k]fluoranthene	31.7		5.0	0.73
218-01-9	Chrysene	28.0		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	31.1		5.0	0.42
206-44-0	Fluoranthene	27.7		5.0	0.40
86-73-7	Fluorene	27.6		5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	30.7		5.0	0.47
91-20-3	Naphthalene	23.7		5.0	0.76
85-01-8	Phenanthrene	26.9		5.0	0.44
129-00-0	Pyrene	29.4		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	78		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	75		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	91		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011411.d
Lims ID: LCS 480-561284/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Dec-2020 18:48:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-007
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:46:57 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:46:57

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	6.215	6.215	0.000	93	269749	4.00	4.00	
* 2 Naphthalene-d8	136	7.299	7.299	0.000	99	976370	4.00	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	557031	4.00	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	969849	4.00	4.00	
* 5 Chrysene-d12	240	12.540	12.540	0.000	99	858898	4.00	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	810439	4.00	4.00	
$ 7 2-Fluorophenol	112	5.098	5.071	0.026	88	387626	8.00	4.80	
$ 8 Phenol-d5	99	5.905	5.899	0.005	98	367340	8.00	3.90	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	466315	8.00	5.96	
$ 10 2-Fluorobiphenyl	172	8.186	8.186	0.000	99	1215342	8.00	6.27	
$ 11 2,4,6-Tribromophenol	330	9.431	9.431	0.000	92	158102	8.00	5.92	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1644688	8.00	7.31	
14 1,4-Dioxane	88	3.202	3.202	0.139	95	130755	8.00	3.69	a
15 N-Nitrosodimethylamine	42	3.624	3.624	0.075	91	181368	8.00	4.28	a
16 Pyridine	52	3.672	3.672	0.091	94	370784	16.0	7.03	a
36 Benzaldehyde	77	5.836	5.835	0.001	93	720122	16.0	12.1	
37 Phenol	94	5.916	5.910	0.006	98	424603	8.00	4.14	
38 Aniline	93	5.932	5.931	0.000	99	547523	8.00	4.82	
40 Bis(2-chloroethyl)ether	93	5.969	5.969	0.000	98	465029	8.00	5.84	
41 2-Chlorophenol	128	6.044	6.044	0.000	95	543231	8.00	6.12	
43 n-Decane	57	6.055	6.054	0.001	93	323761	8.00	3.88	
44 1,3-Dichlorobenzene	146	6.167	6.167	0.000	98	538066	8.00	5.17	
45 1,4-Dichlorobenzene	146	6.231	6.225	0.006	97	549921	8.00	5.18	
46 Benzyl alcohol	108	6.332	6.332	0.000	94	296847	8.00	6.14	
47 1,2-Dichlorobenzene	146	6.364	6.364	0.000	99	537108	8.00	5.51	
49 2-Methylphenol	108	6.423	6.423	0.000	95	482063	8.00	6.53	
50 2,2'-oxybis[1-chloropropane]	45	6.429	6.428	0.000	87	669142	8.00	6.38	
48 Indene	115	6.439	6.434	0.000	91	5660441	64.0	35.9	
55 N-Nitrosodi-n-propylamine	70	6.541	6.540	0.000	92	298143	8.00	6.42	
56 4-Methylphenol	108	6.551	6.551	0.000	67	471976	8.00	6.40	
53 Acetophenone	105	6.551	6.551	0.000	91	719536	8.00	6.76	
59 Hexachloroethane	117	6.653	6.653	0.000	93	177248	8.00	4.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
61 Nitrobenzene	77	6.701	6.696	0.000	86	473529	8.00	5.93	
63 Isophorone	82	6.893	6.888	0.000	98	887742	8.00	6.65	
67 2-Nitrophenol	139	6.968	6.968	-0.005	91	295589	8.00	6.40	
68 2,4-Dimethylphenol	107	6.995	6.989	0.000	90	504806	8.00	6.31	
71 Bis(2-chloroethoxy)methane	93	7.059	7.054	0.000	99	550036	8.00	6.60	
72 Benzoic acid	105	7.107	7.107	0.005	87	1080067	64.0	22.7	a
74 2,4-Dichlorophenol	162	7.182	7.171	0.006	89	475870	8.00	7.01	
75 1,2,4-Trichlorobenzene	180	7.246	7.240	0.000	94	455747	8.00	5.50	
76 Naphthalene	128	7.315	7.310	0.000	97	1497043	8.00	5.92	
78 4-Chloroaniline	127	7.353	7.347	0.000	98	564477	8.00	5.94	
79 2,6-Dichlorophenol	162	7.363	7.358	0.000	97	475887	8.00	6.82	
81 Hexachlorobutadiene	225	7.411	7.406	0.000	95	238399	8.00	4.39	
84 Caprolactam	113	7.641	7.641	-0.005	81	126925	16.0	5.23	
87 4-Chloro-3-methylphenol	107	7.748	7.742	0.000	94	414620	8.00	6.64	
89 2-Methylnaphthalene	142	7.892	7.886	0.000	93	1041441	8.00	6.01	
91 1-Methylnaphthalene	142	7.978	7.972	0.000	94	974311	8.00	6.21	
93 Hexachlorocyclopentadiene	237	8.026	8.026	0.000	92	157326	8.00	3.10	
92 1,2,4,5-Tetrachlorobenzene	216	8.037	8.036	0.001	95	475317	8.00	5.32	
94 2,4,6-Trichlorophenol	196	8.127	8.127	0.000	89	355165	8.00	6.85	
95 2,4,5-Trichlorophenol	196	8.165	8.165	0.000	94	381167	8.00	6.48	
97 1,1'-Biphenyl	154	8.272	8.271	0.000	94	1295637	8.00	6.07	
98 2-Chloronaphthalene	162	8.304	8.303	0.000	95	937691	8.00	5.73	
100 2-Nitroaniline	65	8.378	8.378	0.000	93	237596	8.00	5.77	
104 Dimethyl phthalate	163	8.507	8.506	0.000	99	1218111	8.00	6.72	
105 1,3-Dinitrobenzene	168	8.549	8.543	0.000	95	217729	8.00	6.96	
106 2,6-Dinitrotoluene	165	8.565	8.565	0.000	91	302845	8.00	6.58	
107 Acenaphthylene	152	8.656	8.656	0.000	98	1517485	8.00	6.46	
108 3-Nitroaniline	138	8.720	8.720	0.000	92	273265	8.00	5.95	
109 Acenaphthene	153	8.795	8.795	0.000	94	1067010	8.00	6.57	
110 2,4-Dinitrophenol	184	8.806	8.806	0.000	85	265556	16.0	11.5	
111 4-Nitrophenol	109	8.854	8.854	0.000	82	223179	16.0	9.93	
113 2,4-Dinitrotoluene	165	8.907	8.907	0.000	95	384673	8.00	7.02	
114 Dibenzofuran	168	8.939	8.939	0.000	97	1482195	8.00	6.61	
117 2,3,4,6-Tetrachlorophenol	232	9.041	9.041	0.000	70	277647	8.00	6.41	
120 Hexadecane	57	9.078	9.078	0.000	94	518738	8.00	5.85	
119 Diethyl phthalate	149	9.084	9.083	0.000	99	1244337	8.00	7.11	
122 4-Chlorophenyl phenyl ether	204	9.201	9.201	0.000	90	585678	8.00	6.26	
123 Fluorene	166	9.228	9.228	0.000	94	1247246	8.00	6.90	
125 4-Nitroaniline	138	9.233	9.233	0.000	94	313393	8.00	6.62	
126 4,6-Dinitro-2-methylphenol	198	9.260	9.254	0.006	95	420133	16.0	12.6	
129 N-Nitrosodiphenylamine	169	9.303	9.297	0.006	100	901822	8.00	6.54	
128 Diphenylamine	169	9.303	9.297	0.006	94	901822	6.84	5.60	
130 1,2-Diphenylhydrazine	77	9.335	9.334	0.000	98	1021031	8.00	6.59	
131 Azobenzene	77	9.335	9.334	0.000	98	1021031	8.00	6.28	
137 4-Bromophenyl phenyl ether	248	9.612	9.612	0.000	62	375805	8.00	6.43	
138 Hexachlorobenzene	284	9.698	9.698	0.000	95	381424	8.00	6.16	
141 Atrazine	200	9.725	9.724	0.000	96	781117	16.0	15.8	
146 n-Octadecane	57	9.837	9.837	0.000	94	575729	8.00	6.15	
143 Pentachlorophenol	266	9.858	9.858	0.000	93	268185	16.0	8.15	
149 Phenanthrene	178	10.035	10.034	0.000	97	1799891	8.00	6.72	
150 Anthracene	178	10.077	10.077	0.000	97	1828883	8.00	6.79	
151 Carbazole	167	10.200	10.200	0.000	96	1618342	8.00	7.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
154 Di-n-butyl phthalate	149	10.435	10.435	0.000	100	1924199	8.00	6.83	
161 Fluoranthene	202	11.034	11.033	0.001	98	1963899	8.00	6.93	
164 Benzidine	184	11.119	11.114	0.000	99	378618	16.0	3.43	
165 Pyrene	202	11.242	11.237	0.000	97	1963092	8.00	7.36	
172 Butyl benzyl phthalate	149	11.792	11.787	0.000	96	784137	8.00	7.26	
180 Bis(2-ethylhexyl) phthalate	149	12.439	12.433	0.001	94	1156399	8.00	7.20	
177 3,3'-Dichlorobenzidine	252	12.460	12.454	0.000	73	1182719	16.0	12.4	
179 Benzo[a]anthracene	228	12.524	12.518	0.000	98	1900184	8.00	7.05	
181 Chrysene	228	12.572	12.567	0.000	96	1854750	8.00	7.00	
184 Di-n-octyl phthalate	149	13.309	13.303	0.000	99	1783736	8.00	7.37	
186 Benzo[b]fluoranthene	252	14.014	14.009	0.000	96	1836496	8.00	8.04	
187 Benzo[k]fluoranthene	252	14.057	14.047	0.005	98	1810925	8.00	7.93	
189 Benzo[a]pyrene	252	14.511	14.506	0.000	77	1469956	8.00	7.41	
193 Indeno[1,2,3-cd]pyrene	276	16.242	16.236	0.000	98	2077510	8.00	7.67	
194 Dibenz(a,h)anthracene	278	16.253	16.241	0.006	90	1769656	8.00	7.78	
195 Benzo[g,h,i]perylene	276	16.691	16.679	0.005	98	1675787	8.00	7.96	
S 258 3-Methylphenol	1				0		8.00	6.40	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

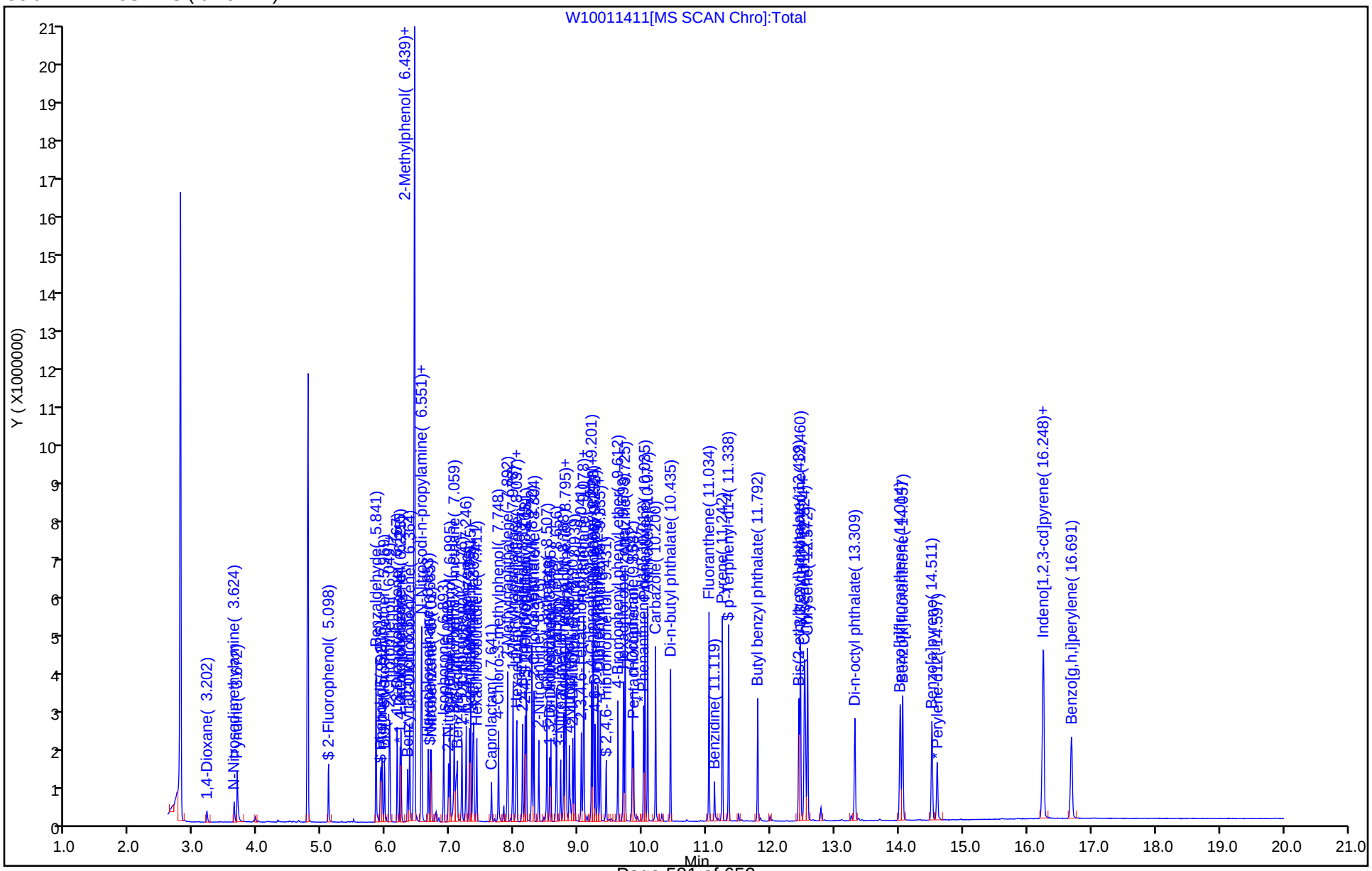
Report Date: 02-Dec-2020 12:46:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011411.d

Injection Date:	01-Dec-2020 18:48:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	LCS 480-561284/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-D MS MS Lab Sample ID: 480-178688-3 MS

Matrix: Water Lab File ID: W10011412.d

Analysis Method: 8270D Date Collected: 11/23/2020 14:15

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 250(mL) Date Analyzed: 12/01/2020 19:17

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.: 561494 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	28.0		5.0	0.41
208-96-8	Acenaphthylene	28.2		5.0	0.38
120-12-7	Anthracene	28.8		5.0	0.28
56-55-3	Benzo[a]anthracene	27.0		5.0	0.36
50-32-8	Benzo[a]pyrene	28.8		5.0	0.47
205-99-2	Benzo[b]fluoranthene	30.2		5.0	0.34
191-24-2	Benzo[g,h,i]perylene	29.2		5.0	0.35
207-08-9	Benzo[k]fluoranthene	29.4		5.0	0.73
218-01-9	Chrysene	26.6		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	27.6		5.0	0.42
206-44-0	Fluoranthene	29.2		5.0	0.40
86-73-7	Fluorene	29.9		5.0	0.36
193-39-5	Indeno[1,2,3-cd]pyrene	27.8		5.0	0.47
91-20-3	Naphthalene	25.2		5.0	0.76
85-01-8	Phenanthrene	29.0		5.0	0.44
129-00-0	Pyrene	30.2		5.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	87		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	81		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011412.d
Lims ID: 480-178688-A-3-A MS
Client ID: MW-97-14-D MS
Sample Type: MS
Inject. Date: 01-Dec-2020 19:17:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-008
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:46:57 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:49:26

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	6.215	6.215	0.000	93	278226	4.00	4.00	
* 2 Naphthalene-d8	136	7.299	7.299	0.000	99	1006102	4.00	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	564378	4.00	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	984309	4.00	4.00	
* 5 Chrysene-d12	240	12.540	12.540	0.000	99	900152	4.00	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	829409	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	524194	8.00	6.50	
$ 10 2-Fluorobiphenyl	172	8.186	8.186	0.000	99	1361461	8.00	6.93	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1534306	8.00	6.51	
76 Naphthalene	128	7.315	7.310	0.000	97	1644465	8.00	6.31	
107 Acenaphthylene	152	8.656	8.656	0.000	98	1678839	8.00	7.06	
109 Acenaphthene	153	8.795	8.795	0.000	94	1151864	8.00	7.00	
123 Fluorene	166	9.228	9.228	0.000	94	1367883	8.00	7.47	
149 Phenanthrene	178	10.034	10.034	0.000	97	1971411	8.00	7.26	
150 Anthracene	178	10.077	10.077	0.000	97	1965979	8.00	7.19	
161 Fluoranthene	202	11.033	11.033	0.000	98	2099298	8.00	7.30	
165 Pyrene	202	11.242	11.237	0.000	97	2112990	8.00	7.55	
179 Benzo[a]anthracene	228	12.524	12.518	0.000	98	1911053	8.00	6.76	
181 Chrysene	228	12.572	12.567	0.000	96	1848292	8.00	6.66	
186 Benzo[b]fluoranthene	252	14.014	14.009	0.000	97	1763636	8.00	7.54	
187 Benzo[k]fluoranthene	252	14.057	14.047	0.005	99	1717114	8.00	7.34	
189 Benzo[a]pyrene	252	14.511	14.506	0.000	77	1460525	8.00	7.20	
193 Indeno[1,2,3-cd]pyrene	276	16.247	16.236	0.005	99	1925241	8.00	6.94	
194 Dibenz(a,h)anthracene	278	16.253	16.241	0.006	90	1606637	8.00	6.90	
195 Benzo[g,h,i]perylene	276	16.691	16.679	0.005	98	1573836	8.00	7.31	

QC Flag Legend
Processing Flags

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

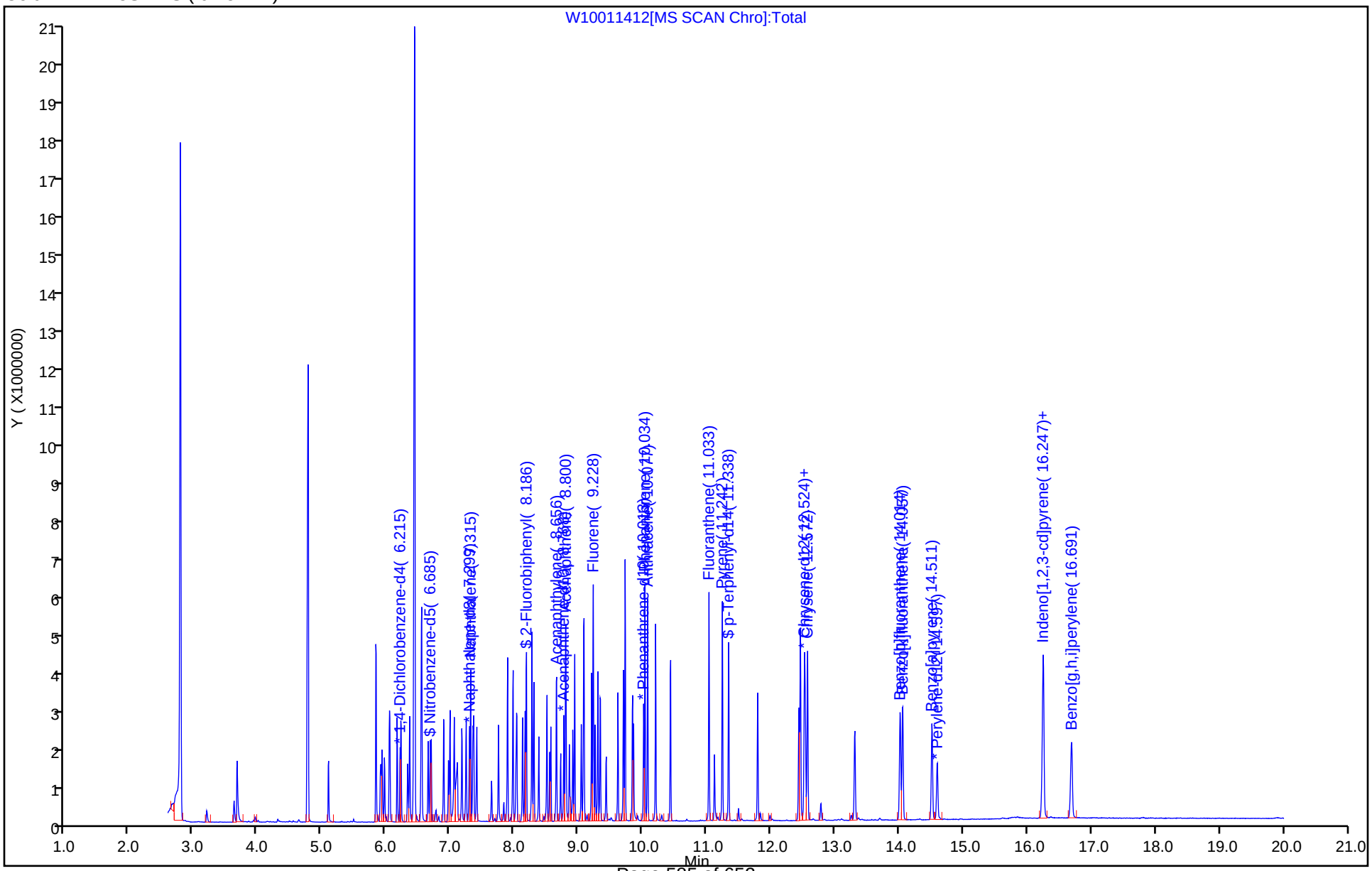
Report Date: 02-Dec-2020 12:49:27 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011412.d

Injection Date:	01-Dec-2020 19:17:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-A-3-A MS			Worklist Smp#:	8
Client ID:	MW-97-14-D MS				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Client Sample ID: MW-97-14-D MSD MSD Lab Sample ID: 480-178688-3 MSD

Matrix: Water Lab File ID: W10011413.d

Analysis Method: 8270D Date Collected: 11/23/2020 14:15

Extract. Method: 3510C Date Extracted: 11/30/2020 09:11

Sample wt/vol: 240(mL) Date Analyzed: 12/01/2020 19:45

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.: 561494 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31.9		5.2	0.43
208-96-8	Acenaphthylene	31.6		5.2	0.40
120-12-7	Anthracene	32.7		5.2	0.29
56-55-3	Benzo[a]anthracene	32.0		5.2	0.38
50-32-8	Benzo[a]pyrene	34.3		5.2	0.49
205-99-2	Benzo[b]fluoranthene	35.9		5.2	0.35
191-24-2	Benzo[g,h,i]perylene	35.2		5.2	0.36
207-08-9	Benzo[k]fluoranthene	36.2		5.2	0.76
218-01-9	Chrysene	31.5		5.2	0.34
53-70-3	Dibenz(a,h)anthracene	33.9		5.2	0.44
206-44-0	Fluoranthene	33.1		5.2	0.42
86-73-7	Fluorene	33.3		5.2	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	33.8		5.2	0.49
91-20-3	Naphthalene	29.3		5.2	0.79
85-01-8	Phenanthrene	32.5		5.2	0.46
129-00-0	Pyrene	35.1		5.2	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	94		48-120
4165-60-0	Nitrobenzene-d5 (Surr)	90		46-120
1718-51-0	p-Terphenyl-d14 (Surr)	92		60-148

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011413.d
Lims ID: 480-178688-A-3-B MSD
Client ID: MW-97-14-D MSD
Sample Type: MSD
Inject. Date: 01-Dec-2020 19:45:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0095356-009
Operator ID: PJQ Instrument ID: HP5973W

Method: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Dec-2020 12:46:57 Calib Date: 24-Nov-2020 18:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973W\20201124-95235.b\W10011257.d

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: CTX1618

First Level Reviewer: quirkp Date: 02-Dec-2020 12:49:57

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	6.215	6.215	0.000	93	279456	4.00	4.00	
* 2 Naphthalene-d8	136	7.294	7.299	-0.005	99	994966	4.00	4.00	
* 3 Acenaphthene-d10	164	8.768	8.768	0.000	92	560103	4.00	4.00	
* 4 Phenanthrene-d10	188	10.013	10.013	0.000	96	985363	4.00	4.00	
* 5 Chrysene-d12	240	12.540	12.540	0.000	99	883392	4.00	4.00	
* 6 Perylene-d12	264	14.597	14.597	0.000	98	813400	4.00	4.00	
$ 9 Nitrobenzene-d5	82	6.685	6.680	0.000	87	571707	8.00	7.17	
$ 10 2-Fluorobiphenyl	172	8.186	8.186	0.000	99	1459425	8.00	7.49	
$ 12 p-Terphenyl-d14	244	11.338	11.333	0.000	98	1704505	8.00	7.37	
76 Naphthalene	128	7.315	7.310	0.000	97	1811197	8.00	7.03	
107 Acenaphthylene	152	8.651	8.656	-0.005	98	1792888	8.00	7.59	
109 Acenaphthene	153	8.795	8.795	0.000	94	1250229	8.00	7.65	
123 Fluorene	166	9.228	9.228	0.000	93	1450710	8.00	7.98	
149 Phenanthrene	178	10.034	10.034	0.000	97	2118642	8.00	7.79	
150 Anthracene	178	10.077	10.077	0.000	97	2144391	8.00	7.84	
161 Fluoranthene	202	11.033	11.033	0.000	98	2284296	8.00	7.94	
165 Pyrene	202	11.242	11.237	0.000	97	2313526	8.00	8.43	
179 Benzo[a]anthracene	228	12.524	12.518	0.000	98	2132896	8.00	7.69	
181 Chrysene	228	12.572	12.567	0.000	96	2059845	8.00	7.56	
186 Benzo[b]fluoranthene	252	14.020	14.009	0.006	97	1975153	8.00	8.61	
187 Benzo[k]fluoranthene	252	14.057	14.047	0.005	99	1993333	8.00	8.69	
189 Benzo[a]pyrene	252	14.511	14.506	0.000	77	1636606	8.00	8.22	
193 Indeno[1,2,3-cd]pyrene	276	16.248	16.236	0.006	98	2206976	8.00	8.11	
194 Dibenz(a,h)anthracene	278	16.253	16.241	0.006	91	1858566	8.00	8.14	
195 Benzo[g,h,i]perylene	276	16.691	16.679	0.005	98	1786291	8.00	8.46	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00205 Amount Added: 20.00 Units: uL Run Reagent

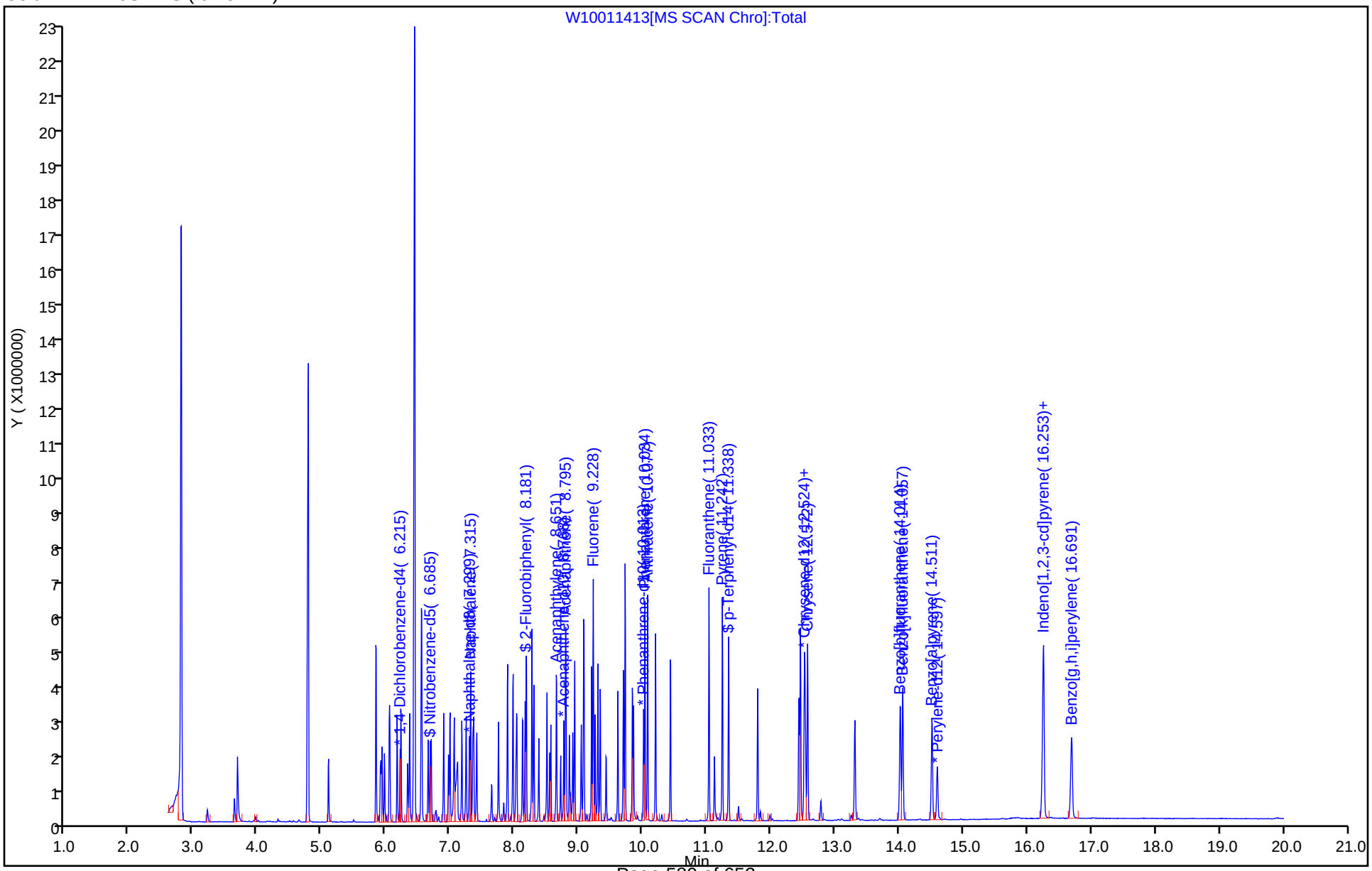
Report Date: 02-Dec-2020 12:49:58 Chrom Revision: 2.3 12-Nov-2020 21:52:08

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973W\20201201-95356.b\W10011413.d

Injection Date:	01-Dec-2020 19:45:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-178688-A-3-B MSD			Worklist Smp#:	9
Client ID:	MW-97-14-D MSD				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: HP5973W Start Date: 11/24/2020 14:46

Analysis Batch Number: 560743 End Date: 11/25/2020 02:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-560743/2		11/24/2020 14:46	1	W10011249.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/3		11/24/2020 15:28	1	W10011250.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/4		11/24/2020 15:56	1	W10011251.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/5		11/24/2020 16:24	1	W10011252.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/6		11/24/2020 16:53	1	W10011253.d	RXI-5Sil MS 0.25(mm)
ICIS 480-560743/7		11/24/2020 17:22	1	W10011254.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/8		11/24/2020 17:50	1	W10011255.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/9		11/24/2020 18:18	1	W10011256.d	RXI-5Sil MS 0.25(mm)
IC 480-560743/10		11/24/2020 18:47	1	W10011257.d	RXI-5Sil MS 0.25(mm)
ICV 480-560743/11		11/24/2020 19:15	1	W10011258.d	RXI-5Sil MS 0.25(mm)
CCVIS 480-560743/12		11/24/2020 19:44	1		RXI-5Sil MS 0.25(mm)
RL 480-560743/13		11/24/2020 20:13	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 20:41	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 21:10	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 21:38	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 22:06	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 22:35	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 23:03	100		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/24/2020 23:32	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/25/2020 00:01	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/25/2020 00:29	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/25/2020 00:58	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/25/2020 01:26	100		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/25/2020 01:54	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		11/25/2020 02:23	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: HP5973W Start Date: 12/01/2020 16:25

Analysis Batch Number: 561494 End Date: 12/02/2020 02:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-561494/2		12/01/2020 16:25	1	W10011406.d	RXI-5Sil MS 0.25(mm)
CCVIS 480-561494/3		12/01/2020 16:53	1	W10011407.d	RXI-5Sil MS 0.25(mm)
RL 480-561494/4		12/01/2020 17:22	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 17:51	25		RXI-5Sil MS 0.25(mm)
MB 480-561284/1-A		12/01/2020 18:20	1	W10011410.d	RXI-5Sil MS 0.25(mm)
LCS 480-561284/2-A		12/01/2020 18:48	1	W10011411.d	RXI-5Sil MS 0.25(mm)
480-178688-3 MS	MW-97-14-D MS MS	12/01/2020 19:17	1	W10011412.d	RXI-5Sil MS 0.25(mm)
480-178688-3 MSD	MW-97-14-D MSD MSD	12/01/2020 19:45	1	W10011413.d	RXI-5Sil MS 0.25(mm)
480-178688-3	MW-97-14-D	12/01/2020 20:14	1	W10011414.d	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 20:42	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 21:12	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 21:41	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 22:09	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 22:37	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/01/2020 23:06	1		RXI-5Sil MS 0.25(mm)
480-178688-1	PZ93-1	12/01/2020 23:34	5	W10011421.d	RXI-5Sil MS 0.25(mm)
480-178688-2	MW93-05D	12/02/2020 00:03	1	W10011422.d	RXI-5Sil MS 0.25(mm)
480-178688-4	MW-97-14-S	12/02/2020 00:33	1	W10011423.d	RXI-5Sil MS 0.25(mm)
480-178688-5	MW-01-17-D	12/02/2020 01:01	1	W10011424.d	RXI-5Sil MS 0.25(mm)
480-178688-6	DUP112320	12/02/2020 01:30	1	W10011425.d	RXI-5Sil MS 0.25(mm)
480-178688-7	EB112420	12/02/2020 01:58	1	W10011426.d	RXI-5Sil MS 0.25(mm)
480-178688-8	NMW-01	12/02/2020 02:27	5	W10011427.d	RXI-5Sil MS 0.25(mm)
480-178688-9	MW-01-07-R	12/02/2020 02:55	1	W10011428.d	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: HP5973W Start Date: 12/03/2020 15:05

Analysis Batch Number: 561842 End Date: 12/04/2020 02:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-561842/2		12/03/2020 15:05	1	W10011487.d	RXI-5Sil MS 0.25(mm)
CCVIS 480-561842/3		12/03/2020 15:34	1	W10011488.d	RXI-5Sil MS 0.25(mm)
RL 480-561842/4		12/03/2020 16:03	1		RXI-5Sil MS 0.25(mm)
CCV 480-561842/5		12/03/2020 16:31	1		RXI-5Sil MS 0.25(mm)
RL 480-561842/6		12/03/2020 16:59	1		RXI-5Sil MS 0.25(mm)
CCV 480-561842/7		12/03/2020 17:28	1		RXI-5Sil MS 0.25(mm)
RL 480-561842/8		12/03/2020 17:56	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 18:26	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 18:54	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 19:23	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 19:51	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 20:19	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 20:48	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 21:17	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 21:46	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 22:14	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 22:43	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/03/2020 23:11	1		RXI-5Sil MS 0.25(mm)
480-178688-1 DL	PZ93-1 DL	12/03/2020 23:39	100	W10011505.d	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/04/2020 00:08	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/04/2020 00:36	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/04/2020 01:04	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/04/2020 01:32	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/04/2020 02:01	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/04/2020 02:29	10		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 561284 Batch Start Date: 11/30/20 09:11 Batch Analyst: Pollock, Jacob M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00112
MB 480-561284/1		3510C, 8270D		250 mL	1 mL	7 SU	<2 SU	>11 SU	
LCS 480-561284/2		3510C, 8270D		250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-178688-A-3 MS	MW-97-14-D MS	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-178688-A-3 MSD	MW-97-14-D MSD	3510C, 8270D	T	240 mL	1 mL	7 SU	<2 SU	>11 SU	1 mL
480-178688-B-3	MW-97-14-D	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-178688-A-1	PZ93-1	3510C, 8270D	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	
480-178688-B-2	MW93-05D	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-178688-B-4	MW-97-14-S	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-178688-B-5	MW-01-17-D	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-178688-B-6	DUP112320	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-178688-B-7	EB112420	3510C, 8270D	T	250 mL	1 mL	6 SU	<2 SU	>11 SU	
480-178688-A-8	NMW-01	3510C, 8270D	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	
480-178688-A-9	MW-01-07-R	3510C, 8270D	T	250 mL	1 mL	8 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00080					
MB 480-561284/1		3510C, 8270D		1 mL					
LCS 480-561284/2		3510C, 8270D		1 mL					
480-178688-A-3 MS	MW-97-14-D MS	3510C, 8270D	T	1 mL					
480-178688-A-3 MSD	MW-97-14-D MSD	3510C, 8270D	T	1 mL					
480-178688-B-3	MW-97-14-D	3510C, 8270D	T	1 mL					
480-178688-A-1	PZ93-1	3510C, 8270D	T	1 mL					
480-178688-B-2	MW93-05D	3510C, 8270D	T	1 mL					
480-178688-B-4	MW-97-14-S	3510C, 8270D	T	1 mL					
480-178688-B-5	MW-01-17-D	3510C, 8270D	T	1 mL					
480-178688-B-6	DUP112320	3510C, 8270D	T	1 mL					
480-178688-B-7	EB112420	3510C, 8270D	T	1 mL					
480-178688-A-8	NMW-01	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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 561284 Batch Start Date: 11/30/20 09:11 Batch Analyst: Pollock, Jacob M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00080					
480-178688-A-9	MW-01-07-R	3510C, 8270D	T	1 mL					

Batch Notes	
Acid Used for pH Adjustment ID	6261220
Base Used to Adjust pH ID	6104719
Analyst ID - Concentration	JP
Analyst ID - Extraction	JP
Method/Fraction	3510C_LVI/8270D
Na2SO4 ID	6222021
Prep Solvent ID	6259238
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient Volume for Batch QC	Yes
Vial Lot Number	00259742

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: Eurofins TestAmerica, Buffalo Job Number: 480-178688-1

SDG No.:

Project: NYSEG Groundwater Analysis - Binghamton,

Client Sample ID	Lab Sample ID
PZ93-1	480-178688-1
MW93-05D	480-178688-2
MW-97-14-D	480-178688-3
MW-97-14-S	480-178688-4
MW-01-17-D	480-178688-5
DUP112320	480-178688-6
EB112420	480-178688-7
NMW-01	480-178688-8
MW-01-07-R	480-178688-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ93-1 | Lab Sample ID: 480-178688-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-178688-1

SDG ID.:

Matrix: Water | Date Sampled: 11/23/2020 12:36

Reporting Basis: WET | Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.011	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW93-05D
Lab Sample ID: 480-178688-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-178688-1
SDG ID.:
Matrix: Water
Date Sampled: 11/23/2020 13:02
Reporting Basis: WET
Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-97-14-D
Lab Sample ID: 480-178688-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-178688-1
SDG ID.:
Matrix: Water
Date Sampled: 11/23/2020 14:15
Reporting Basis: WET
Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	0.010	0.0050	mg/L		F1	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-97-14-S
Lab Sample ID: 480-178688-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-178688-1
SDG ID.:
Matrix: Water
Date Sampled: 11/23/2020 14:35
Reporting Basis: WET
Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0073	0.010	0.0050	mg/L	J		1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-01-17-D
Lab Sample ID: 480-178688-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-178688-1
SDG ID.:
Matrix: Water
Date Sampled: 11/24/2020 10:26
Reporting Basis: WET
Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	0.010	0.0050	mg/L			1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP112320 Lab Sample ID: 480-178688-6

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG ID.:

Matrix: Water Date Sampled: 11/23/2020 00:00

Reporting Basis: WET Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0089	0.010	0.0050	mg/L	J	F1	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EB112420 Lab Sample ID: 480-178688-7

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG ID.:

Matrix: Water Date Sampled: 11/24/2020 09:23

Reporting Basis: WET Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	0.010	0.0050	mg/L		F1	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NMW-01 Lab Sample ID: 480-178688-8

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG ID.:

Matrix: Water Date Sampled: 11/24/2020 12:57

Reporting Basis: WET Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0084	0.010	0.0050	mg/L	J	B *	1	9012B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-178688-1
SDG ID.:
Matrix: Water
Date Sampled: 11/24/2020 12:24
Reporting Basis: WET
Date Received: 11/25/2020 12:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	ND	0.010	0.0050	mg/L		*	1	9012B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Analyst: KMF Batch Start Date: 12/04/2020

Reporting Units: mg/L Analytical Batch No.: 562067

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	18:05	Cyanide, Total	0.232	0.250	93	90-110		CN CCV_01399
2	CCB	18:09	Cyanide, Total	ND					
13	CCV	18:25	Cyanide, Total	0.235	0.250	94	90-110		CN CCV_01399
14	CCB	18:26	Cyanide, Total	ND					
49	CCV	19:22	Cyanide, Total	0.228	0.250	91	90-110		CN CCV_01399
50	CCB	19:23	Cyanide, Total	ND					
61	CCV	19:40	Cyanide, Total	0.254	0.250	102	90-110		CN CCV_01399
62	CCB	19:41	Cyanide, Total	ND					
73	CCV	19:57	Cyanide, Total	0.242	0.250	97	90-110		CN CCV_01399
74	CCB	19:59	Cyanide, Total	ND					
85	CCV	20:14	Cyanide, Total	0.231	0.250	92	90-110		CN CCV_01399
86	CCB	20:16	Cyanide, Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Analyst: ALT Batch Start Date: 12/08/2020

Reporting Units: mg/L Analytical Batch No.: 562422

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:54	Cyanide, Total	0.241	0.250	96	90-110		CN CCV_01399
2	CCB	15:58	Cyanide, Total	ND					
13	CCV	16:16	Cyanide, Total	0.225	0.250	90	90-110		CN CCV_01399
14	CCB	16:17	Cyanide, Total	ND					
25	CCV	16:33	Cyanide, Total	0.248	0.250	99	90-110		CN CCV_01399
26	CCB	16:34	Cyanide, Total	ND					
32	CCV	16:43	Cyanide, Total	0.228	0.250	91	90-110		CN CCV_01399
33	CCB	16:44	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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 562067	Date: 12/04/2020 18:10	Prep Batch: 561917	Date: 12/03/2020 20:30				
9012B	MB 480-561917/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 562067	Date: 12/04/2020 19:37	Prep Batch: 561919	Date: 12/03/2020 20:39				
9012B	MB 480-561919/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 562422	Date: 12/08/2020 15:59	Prep Batch: 562264	Date: 12/07/2020 17:26				
9012B	MB 480-562264/1-A	Cyanide, Total	0.00558	J	mg/L	0.010	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 562067	Date: 12/04/2020 18:20		Prep Batch: 561917		Date: 12/03/2020 20:30						
9012B	480-178688-7	Cyanide, Total	ND		mg/L						F1
9012B	480-178688-7 MS	Cyanide, Total	0.0884		mg/L	0.100	88	90-110			F1
Batch ID: 562067	Date: 12/04/2020 19:46		Prep Batch: 561919		Date: 12/03/2020 20:39						
9012B	480-178688-3	Cyanide, Total	ND		mg/L						F1
9012B	480-178688-3 MS	Cyanide, Total	0.0867		mg/L	0.100	87	90-110			F1
Batch ID: 562067	Date: 12/04/2020 20:13		Prep Batch: 561919		Date: 12/03/2020 20:39						
9012B	480-178688-6	Cyanide, Total	0.0089	J	mg/L						F1
9012B	480-178688-6 MS	Cyanide, Total	0.0932		mg/L	0.100	84	90-110			F1
Batch ID: 562422	Date: 12/08/2020 16:11		Prep Batch: 562264		Date: 12/07/2020 17:26						
9012B	480-178688-9	Cyanide, Total	ND		mg/L						*
9012B	480-178688-9 MS	Cyanide, Total	0.100		mg/L	0.100	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 562067	Date: 12/04/2020 19:47		Prep Batch: 561919		Date: 12/03/2020 20:39						
9012B	480-178688-3 MSD	Cyanide, Total	0.0852		mg/L	0.100	85	90-110	2	15	F1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 562067 Date: 12/04/2020 18:18			Prep Batch: 561917	Date: 12/03/2020 20:30				
9012B	MW-01-17-D	480-178688-5	Cyanide, Total	ND	mg/L			
9012B	MW-01-17-D	480-178688-5 DU	Cyanide, Total	ND	mg/L	NC	15	
Batch ID: 562422 Date: 12/08/2020 16:08			Prep Batch: 562264	Date: 12/07/2020 17:26				
9012B	NMW-01	480-178688-8	Cyanide, Total	0.0084	mg/L			J
9012B	NMW-01	480-178688-8 DU	Cyanide, Total	0.00883	mg/L	5	15	J *

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 562067	Date: 12/04/2020 18:12		Prep Batch: 561917			Date: 12/03/2020 20:30					
						LCS Source: LCS 400_00158					
9012B	LCS 480-561917/2-A	Cyanide, Total	0.413		mg/L	0.400	103	90-110			
Batch ID: 562067	Date: 12/04/2020 18:13		Prep Batch: 561917			Date: 12/03/2020 20:30					
						LCS Source: CN LCS 250_00162					
9012B	LCS 480-561917/3-A	Cyanide, Total	0.259		mg/L	0.250	104	90-110			
Batch ID: 562067	Date: 12/04/2020 19:38		Prep Batch: 561919			Date: 12/03/2020 20:39					
						LCS Source: CN LCS 250_00162					
9012B	LCS 480-561919/2-A	Cyanide, Total	0.259		mg/L	0.250	104	90-110			
Batch ID: 562422	Date: 12/08/2020 16:01		Prep Batch: 562264			Date: 12/07/2020 17:26					
						LCS Source: LCS 400_00159					
9012B	LCS 480-562264/2-A	Cyanide, Total	0.448		mg/L	0.400	112	90-110			*
Batch ID: 562422	Date: 12/08/2020 16:02		Prep Batch: 562264			Date: 12/07/2020 17:26					
						LCS Source: CN LCS 250_00163					
9012B	LCS 480-562264/3-A	Cyanide, Total	0.261		mg/L	0.250	104	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: Eurofins TestAmerica, Buffalo Job Number: 480-178688-1

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: Eurofins TestAmerica, Buffalo Job Number: 480-178688-1

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-561917/1-A	12/03/2020 20:30	561917		6	6
LCS 480-561917/2-A	12/03/2020 20:30	561917		6	6
LCS 480-561917/3-A	12/03/2020 20:30	561917		6	6
480-178688-5	12/03/2020 20:30	561917		6	6
480-178688-5 DU	12/03/2020 20:30	561917		6	6
480-178688-7	12/03/2020 20:30	561917		6	6
480-178688-7 MS	12/03/2020 20:30	561917		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-561919/1-A	12/03/2020 20:39	561919		6	6
LCS 480-561919/2-A	12/03/2020 20:39	561919		6	6
480-178688-3	12/03/2020 20:39	561919		6	6
480-178688-3 MS	12/03/2020 20:39	561919		6	6
480-178688-3 MSD	12/03/2020 20:39	561919		6	6
480-178688-1	12/03/2020 20:39	561919		6	6
480-178688-2	12/03/2020 20:39	561919		6	6
480-178688-4	12/03/2020 20:39	561919		6	6
480-178688-6	12/03/2020 20:39	561919		6	6
480-178688-6 MS	12/03/2020 20:39	561919		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Prep Method: 9012B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-562264/1-A	12/07/2020 17:26	562264		6	6
LCS 480-562264/2-A	12/07/2020 17:26	562264		6	6
LCS 480-562264/3-A	12/07/2020 17:26	562264		6	6
480-178688-8	12/07/2020 17:26	562264		6	6
480-178688-8 DU	12/07/2020 17:26	562264		6	6
480-178688-9	12/07/2020 17:26	562264		6	6
480-178688-9 MS	12/07/2020 17:26	562264		6	6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: LACHAT2 Method: 9012B

Start Date: 12/04/2020 18:05 End Date: 12/04/2020 21:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-562067/1	1		18:05	X																			
CCB 480-562067/2	1		18:09	X																			
MB 480-561917/1-A	1	T	18:10	X																			
LCS 480-561917/2-A	1	T	18:12	X																			
LCS 480-561917/3-A	1	T	18:13	X																			
ZZZZZZ			18:15																				
480-178688-5	1	T	18:16	X																			
480-178688-5 DU	1	T	18:18	X																			
480-178688-7	1	T	18:19	X																			
480-178688-7 MS	1	T	18:20	X																			
ZZZZZZ			18:22																				
ZZZZZZ			18:23																				
CCV 480-562067/13	1		18:25	X																			
CCB 480-562067/14	1		18:26	X																			
ZZZZZZ			18:30																				
ZZZZZZ			18:32																				
ZZZZZZ			18:33																				
ZZZZZZ			18:35																				
ZZZZZZ			18:36																				
ZZZZZZ			18:38																				
ZZZZZZ			18:39																				
ZZZZZZ			18:40																				
ZZZZZZ			18:42																				
ZZZZZZ			18:43																				
CCV 480-562067/25			18:45																				
CCB 480-562067/26			18:46																				
ZZZZZZ			18:48																				
ZZZZZZ			18:49																				
ZZZZZZ			18:51																				
ZZZZZZ			18:52																				
ZZZZZZ			18:53																				
ZZZZZZ			18:55																				
ZZZZZZ			18:56																				
ZZZZZZ			19:00																				
ZZZZZZ			19:01																				
ZZZZZZ			19:03																				
CCV 480-562067/37			19:04																				
CCB 480-562067/38			19:06																				
ZZZZZZ			19:07																				
ZZZZZZ			19:09																				
ZZZZZZ			19:10																				
ZZZZZZ			19:12																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: LACHAT2 Method: 9012B

Start Date: 12/04/2020 18:05 End Date: 12/04/2020 21:31

Lab Sample ID	D / F	Type	Time	Analytes																				
				CN																				
ZZZZZZ			19:13																					
ZZZZZZ			19:14																					
ZZZZZZ			19:16																					
ZZZZZZ			19:17																					
ZZZZZZ			19:19																					
ZZZZZZ			19:20																					
CCV 480-562067/49	1		19:22	X																				
CCB 480-562067/50	1		19:23	X																				
ZZZZZZ			19:25																					
ZZZZZZ			19:26																					
ZZZZZZ			19:27																					
ZZZZZZ			19:29																					
ZZZZZZ			19:30																					
ZZZZZZ			19:32																					
ZZZZZZ			19:33																					
ZZZZZZ			19:35																					
MB 480-561919/1-A	1	T	19:37	X																				
LCS 480-561919/2-A	1	T	19:38	X																				
CCV 480-562067/61	1		19:40	X																				
CCB 480-562067/62	1		19:41	X																				
ZZZZZZ			19:43																					
480-178688-3	1	T	19:44	X																				
480-178688-3 MS	1	T	19:46	X																				
480-178688-3 MSD	1	T	19:47	X																				
480-178688-1	1	T	19:48	X																				
ZZZZZZ			19:50																					
ZZZZZZ			19:51																					
ZZZZZZ			19:53																					
ZZZZZZ			19:54																					
ZZZZZZ			19:56																					
CCV 480-562067/73	1		19:57	X																				
CCB 480-562067/74	1		19:59	X																				
ZZZZZZ			20:00																					
ZZZZZZ			20:01																					
ZZZZZZ			20:03																					
ZZZZZZ			20:04																					
ZZZZZZ			20:06																					
ZZZZZZ			20:07																					
480-178688-2	1	T	20:09	X																				
480-178688-4	1	T	20:10	X																				
480-178688-6	1	T	20:12	X																				
480-178688-6 MS	1	T	20:13	X																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: LACHAT2 Method: 9012B

Start Date: 12/04/2020 18:05 End Date: 12/04/2020 21:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-562067/85	1		20:14	X																			
CCB 480-562067/86	1		20:16	X																			
ZZZZZZ			20:17																				
ZZZZZZ			20:19																				
ZZZZZZ			20:20																				
ZZZZZZ			20:22																				
ZZZZZZ			20:23																				
ZZZZZZ			20:25																				
ZZZZZZ			20:26																				
ZZZZZZ			20:27																				
ZZZZZZ			20:29																				
ZZZZZZ			20:30																				
CCV 480-562067/97			20:32																				
CCB 480-562067/98			20:33																				
ZZZZZZ			20:35																				
ZZZZZZ			20:36																				
ZZZZZZ			20:38																				
ZZZZZZ			20:39																				
ZZZZZZ			20:40																				
ZZZZZZ			20:42																				
ZZZZZZ			20:43																				
ZZZZZZ			20:45																				
ZZZZZZ			20:46																				
ZZZZZZ			20:48																				
CCV 480-562067/109			20:49																				
CCB 480-562067/110			20:50																				
ZZZZZZ			20:52																				
ZZZZZZ			20:53																				
ZZZZZZ			20:55																				
ZZZZZZ			20:56																				
ZZZZZZ			20:58																				
ZZZZZZ			20:59																				
ZZZZZZ			21:01																				
ZZZZZZ			21:02																				
ZZZZZZ			21:04																				
ZZZZZZ			21:05																				
CCV 480-562067/121			21:06																				
CCB 480-562067/122			21:08																				
ZZZZZZ			21:09																				
ZZZZZZ			21:11																				
ZZZZZZ			21:12																				
ZZZZZZ			21:14																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: LACHAT2 Method: 9012B

Start Date: 12/04/2020 18:05 End Date: 12/04/2020 21:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
ZZZZZZ			21:15																				
ZZZZZZ			21:16																				
ZZZZZZ			21:18																				
ZZZZZZ			21:19																				
ZZZZZZ			21:21																				
ZZZZZZ			21:22																				
CCV 480-562067/133			21:24																				
CCB 480-562067/134			21:25																				
ZZZZZZ			21:27																				
ZZZZZZ			21:28																				
CCV 480-562067/137			21:30																				
CCB 480-562067/138			21:31																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Instrument ID: LACHAT2 Method: 9012B

Start Date: 12/08/2020 15:54 End Date: 12/08/2020 16:44

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-562422/1	1		15:54	X																			
CCB 480-562422/2	1		15:58	X																			
MB 480-562264/1-A	1	T	15:59	X																			
LCS 480-562264/2-A	1	T	16:01	X																			
LCS 480-562264/3-A	1	T	16:02	X																			
ZZZZZZ			16:04																				
ZZZZZZ			16:07																				
480-178688-8 DU	1	T	16:08	X																			
480-178688-9	1	T	16:10	X																			
480-178688-9 MS	1	T	16:11	X																			
ZZZZZZ			16:13																				
ZZZZZZ			16:14																				
CCV 480-562422/13	1		16:16	X																			
CCB 480-562422/14	1		16:17	X																			
ZZZZZZ			16:18																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
ZZZZZZ			16:23																				
ZZZZZZ			16:24																				
ZZZZZZ			16:26																				
ZZZZZZ			16:27																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:31																				
CCV 480-562422/25	1		16:33	X																			
CCB 480-562422/26	1		16:34	X																			
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
480-178688-8	1	T	16:39	X																			
ZZZZZZ			16:40																				
ZZZZZZ			16:42																				
CCV 480-562422/32	1		16:43	X																			
CCB 480-562422/33	1		16:44	X																			

Prep Types

T = Total/NA

562067

Solutions:

Potassium Phosphate Buffer	**6267049 Exp: 06/02/2021**
Pyridine Barbituric Acid	**6266096 Exp: 12/08/2020**
Chloramine-T	**6272771 Exp: 12/05/2020**
50ppm INT STD	**6265606 Exp: 12/08/2020**
CN .25ppm CCV Std	**6265612 Exp: 12/08/2020**
50ppm Secondary source INT STD	**6265613 Exp: 12/08/2020**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 12/08/2020
Curve Standard(50 ppm) : 6265606
ICV (0.250 ppm): 6265614

1

S620G7

Author: BufLachat2

Date : 12/4/2020

Original Run Filename: OM_12-4-2020_06-04-43PM.OMN Created: 12/4/2020 6:04:43 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-4-2020_06-04-43PM.OMN Last Modified: 12/4/2020 9:34:24 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	0.232	1.80	0.0932	12/4/2020 6:05:26 PM
	Known Conc:		1.50			
CCB	1	S10	-9.74e-4	8.53e-3	6.53e-4	12/4/2020 6:09:19 PM
	Known Conc:		0.00			
	Calibration:		Table/Fit. : 1			
mb 480-561917/1-a	1	1	-1.92e-3	1.29e-3	4.18e-4	12/4/2020 6:10:47 PM
lcs 480-561917/2-a	1	2	0.413	3.19	0.166	12/4/2020 6:12:14 PM
lcs 480-561917/3-a	1	3	0.259	2.00	0.104	12/4/2020 6:13:41 PM
ccvl 480-561917/4-a	1	4	0.0855	0.673	0.0337	12/4/2020 6:15:09 PM
480-178688-c-5-a	1	5	3.23e-3	0.0408	1.87e-3	12/4/2020 6:16:35 PM
480-178688-c-5-b du	1	6	3.01e-3	0.0391	1.65e-3	12/4/2020 6:18:01 PM
480-178688-c-7-a	1	7	-2.80e-3	-5.53e-3	-7.10e-4	12/4/2020 6:19:28 PM
480-178688-c-7-b ms	1	8	0.0884	0.695	0.0358	12/4/2020 6:20:56 PM
480-178500-a-1-d	1	9	7.90	60.7	2.92	12/4/2020 6:22:21 PM
480-178470-g-1-a	1	10	-5.92e-3	-0.0295	-9.64e-4	12/4/2020 6:23:48 PM
CCV	1	S9	0.235	1.82	0.0943	12/4/2020 6:25:14 PM
	Known Conc:		100			
CCB	1	S10	-3.96e-3	-0.0144	-8.00e-4	12/4/2020 6:26:41 PM
	Known Conc:		100			
480-178470-g-2-a	1	11	-3.92e-3	-0.0141	-8.82e-4	12/4/2020 6:30:50 PM
480-178470-g-3-a	1	12	-3.24e-3	-8.88e-3	-5.99e-4	12/4/2020 6:32:17 PM
480-178470-g-4-a	1	13	-8.30e-5	0.0154	6.50e-4	12/4/2020 6:33:42 PM
480-178470-g-5-a	1	14	-6.77e-4	0.0108	8.22e-4	12/4/2020 6:35:08 PM
480-178470-g-6-a	1	15	-3.41e-3	-0.0102	-6.50e-4	12/4/2020 6:36:34 PM
480-178470-g-7-a	1	16	-1.06e-3	7.91e-3	5.26e-4	12/4/2020 6:38:02 PM
480-178470-g-8-a	1	17	-4.10e-3	-0.0155	-4.91e-4	12/4/2020 6:39:29 PM
480-178470-g-9-a	1	18	-1.40e-3	5.28e-3	3.94e-4	12/4/2020 6:40:56 PM
480-178482-o-1-a	1	19	-1.02e-3	8.20e-3	5.37e-4	12/4/2020 6:42:23 PM
480-178482-o-2-a	1	20	1.36e-3	0.0265	6.93e-4	12/4/2020 6:43:50 PM
CCV	1	S9	0.254	1.97	0.103	12/4/2020 6:45:16 PM
	Known Conc:		100			
CCB	1	S10	-1.83e-4	0.0146	9.33e-4	12/4/2020 6:46:43 PM
	Known Conc:		100			
480-178561-l-3-a	1	21	-3.40e-3	-0.0101	-4.28e-4	12/4/2020 6:48:10 PM
480-178526-l-3-b ms	1	22	0.0909	0.714	0.0358	12/4/2020 6:49:37 PM
mb 480-561918/1-a	1	23	6.12e-4	0.0207	7.21e-4	12/4/2020 6:51:03 PM
lcs 480-561918/2-a	1	24	0.224	1.74	0.0890	12/4/2020 6:52:30 PM
ccvl 480-561918/3-a	1	25	0.0817	0.644	0.0313	12/4/2020 6:53:56 PM
480-178523-f-1-a	1	26	0.322	2.49	0.467	12/4/2020 6:55:22 PM
480-178523-f-1-b du	1	27	0.0954	0.749	0.301	12/4/2020 6:56:48 PM
480-178523-f-2-a	1	28	-3.35e-3	-9.73e-3	-9.36e-4	12/4/2020 7:00:31 PM
480-178523-f-2-b ms	1	29	0.0833	0.656	0.0330	12/4/2020 7:01:57 PM
480-178518-l-1-a	1	30	9.60e-3	0.0898	4.24e-3	12/4/2020 7:03:23 PM
CCV	1	S9	0.249	1.93	0.101	12/4/2020 7:04:49 PM
	Known Conc:		100			
CCB	1	S10	-3.07e-4	0.0137	5.52e-4	12/4/2020 7:06:16 PM
	Known Conc:		100			
480-178518-l-2-a	1	31	0.0101	0.0932	4.77e-3	12/4/2020 7:07:43 PM
480-178561-e-1-a	1	32	-4.41e-3	-0.0178	-8.40e-4	12/4/2020 7:09:11 PM
480-178595-f-1-a	1	33	1.18e-3	0.0251	1.08e-3	12/4/2020 7:10:37 PM
480-178595-f-2-a	1	34	-4.00e-3	-0.0147	-1.20e-3	12/4/2020 7:12:0 PM
480-178596-k-3-c	1	35	9.62e-4	0.0234	1.13e-3	12/4/2020 7:13:32 PM
480-178601-d-1-a	1	36	-3.05e-3	-7.41e-3	-7.11e-4	12/4/2020 7:14:58 PM
480-178601-d-3-a	1	37	1.17e-3	0.0250	1.12e-3	12/4/2020 7:16:25 PM
480-178601-d-2-a	1	38	1.63e-3	0.0285	1.07e-3	12/4/2020 7:17:51 PM
480-178601-d-4-a	1	39	-3.35e-3	-9.69e-3	-5.56e-4	12/4/2020 7:19:18 PM
480-178601-d-5-a	1	40	-2.45e-4	0.0141	5.98e-4	12/4/2020 7:20:44 PM
CCV	1	S9	0.228	1.76	0.0913	12/4/2020 7:22:11 PM

	Known Conc:		100			
CCB	1	S10	-1.65e-3	3.37e-3	3.63e-4	12/4/2020@7:23:37 PM
	Known Conc:		100			
480-178601-d-6-a	1	41	-2.19e-4	0.0143	7.23e-4	12/4/2020@7:25:03 PM
480-178614-f-1-a	1	42	2.27e-3	0.0334	1.54e-3	12/4/2020@7:26:29 PM
480-178614-f-1-b	1	43	2.08e-3	0.0320	1.22e-3	12/4/2020@7:27:56 PM
480-178614-f-1-c ms	1	44	0.0894	0.702	0.0352	12/4/2020@7:29:21 PM
480-178500-a-1-d^25	1	45	0.391	3.02	0.157	12/4/2020@7:30:47 PM
lcs 480-561918/2-a	1	46	0.245	1.89	0.0966	12/4/2020@7:32:14 PM
480-178523-f-1-a	1	47	-4.79e-3	-0.0208	-8.36e-4	12/4/2020@7:33:42 PM
480-178523-f-1-b du	1	48	-3.23e-3	-8.81e-3	-3.14e-4	12/4/2020@7:35:57 PM
mb 480-561919/1-a	1	49	-5.34e-3	-0.0250	-8.43e-4	12/4/2020@7:37:24 PM
lcs 480-561919/2-a	1	50	0.259	2.01	0.104	12/4/2020@7:38:52 PM
CCV	1	S9	0.254	1.97	0.103	12/4/2020@7:40:17 PM
	Known Conc:		100			
CCB	1	S10	-2.57e-3	-3.73e-3	-6.50e-4	12/4/2020@7:41:44 PM
	Known Conc:		100			
ccvl 480-561919/3-a	1	51	0.0806	0.635	0.0321	12/4/2020@7:43:11 PM
480-178688-c-3-a	1	52	-3.73e-3	-0.0126	-8.14e-4	12/4/2020@7:44:37 PM
480-178688-c-3-b ms	1	53	0.0867	0.682	0.0346	12/4/2020@7:46:04 PM
480-178688-c-3-c msd	1	54	0.0852	0.670	0.0344	12/4/2020@7:47:31 PM
480-178688-c-1-a	1	55	0.0114	0.103	4.99e-3	12/4/2020@7:48:57 PM
480-178614-f-2-a	1	56	-7.70e-4	0.0101	1.14e-3	12/4/2020@7:50:23 PM
480-178614-f-2-b NA	1	57	1.42e-3	0.0269	1.27e-3	12/4/2020@7:51:49 PM
480-178614-f-3-a	1	58	1.98e-3	0.0312	9.49e-4	12/4/2020@7:53:15 PM
480-178614-f-3-b NA	1	59	1.54e-3	0.0279	1.11e-3	12/4/2020@7:54:41 PM
480-178614-f-4-e	1	60	8.31e-3	0.0799	3.81e-3	12/4/2020@7:56:07 PM
CCV	1	S9	0.242	1.87	0.0973	12/4/2020@7:57:34 PM
	Known Conc:		100			
CCB	1	S10	1.34e-3	0.0263	8.87e-4	12/4/2020@7:59:00 PM
	Known Conc:		100			
480-178614-f-4-b NA	1	61	9.62e-3	0.0899	4.49e-3	12/4/2020@8:00:28 PM
480-178614-f-5-o	1	62	3.56e-3	0.0434	1.32e-3	12/4/2020@8:01:55 PM
480-178614-f-5-b NA	1	63	2.07e-3	0.0319	1.56e-3	12/4/2020@8:03:21 PM
480-178614-f-6-e	1	64	1.72e-3	0.0292	9.68e-4	12/4/2020@8:04:48 PM
480-178614-f-6-b NA	1	65	-3.95e-3	-0.0143	-9.64e-4	12/4/2020@8:06:16 PM
480-178481-f-1-a	1	66	-3.09e-5	0.0158	8.47e-4	12/4/2020@8:07:43 PM
480-178688-c-2-a	1	67	1.12e-3	0.0246	8.39e-4	12/4/2020@8:09:10 PM
480-178688-c-4-a	1	68	7.25e-3	0.0717	3.12e-3	12/4/2020@8:10:36 PM
480-178688-c-6-a	1	69	8.86e-3	0.0841	3.87e-3	12/4/2020@8:12:03 PM
480-178688-c-6-b ms	1	70	0.0932	0.732	0.0370	12/4/2020@8:13:29 PM
CCV	1	S9	0.231	1.79	0.0916	12/4/2020@8:14:55 PM
	Known Conc:		100			
CCB	1	S10	-4.32e-3	-0.0171	-7.20e-4	12/4/2020@8:16:21 PM
	Known Conc:		100			
mb 480-561742/1-a	1	71	0.0558	0.445	0.0219	12/4/2020@8:17:48 PM
lcsrm 480-561742/2-a^20	1	72	0.0754	0.595	0.0308	12/4/2020@8:19:14 PM
480-178605-c-3-d	1	73	9.46e-3	0.0887	4.31e-3	12/4/2020@8:20:40 PM
480-178605-c-3-e ms	1	74	0.0835	0.657	0.0328	12/4/2020@8:22:07 PM
480-178605-c-3-f msd	1	75	0.0918	0.721	0.0367	12/4/2020@8:23:33 PM
480-178605-c-1-b	1	76	0.0104	0.0960	4.45e-3	12/4/2020@8:25:00 PM
480-178605-c-2-b	1	77	0.0133	0.118	5.70e-3	12/4/2020@8:26:27 PM
480-178605-c-4-b	1	78	0.0155	0.135	6.28e-3	12/4/2020@8:27:55 PM
480-178605-c-5-b	1	79	0.0164	0.142	6.65e-3	12/4/2020@8:29:21 PM
480-178605-c-6-b	1	80	0.0208	0.176	8.93e-3	12/4/2020@8:30:47 PM
CCV	1	S9	0.259	2.00	0.105	12/4/2020@8:32:14 PM
	Known Conc:		100			
CCB	1	S10	-5.89e-3	-0.0292	-8.00e-4	12/4/2020@8:33:41 PM
	Known Conc:		100			
480-178605-c-7-b	1	81	0.0172	0.148	6.85e-3	12/4/2020@8:35:07 PM
480-178605-c-8-b	1	82	0.0102	0.0945	4.58e-3	12/4/2020@8:36:34 PM
480-178605-c-9-b	1	83	0.0244	0.203	0.0101	12/4/2020@8:38:01 PM
480-178675-b-1-a	1	84	6.11e-3	0.0629	2.97e-3	12/4/2020@8:39:27 PM
480-178675-b-2-a	1	85	3.35e-3	0.0418	1.78e-3	12/4/2020@8:40:54 PM
480-178675-b-3-a	1	86	3.29e-3	0.0413	1.63e-3	12/4/2020@8:42:20 PM
480-178675-b-4-a	1	87	0.0107	0.0984	4.74e-3	12/4/2020@8:43:46 PM
480-178675-b-5-a	1	88	7.26e-3	0.0718	3.01e-3	12/4/2020@8:45:13 PM
480-178637-c-3-f	1	89	6.08e-3	0.0627	2.78e-3	12/4/2020@8:46:39 PM

480-178637-d-11-b	1	90	4.01e-3	0.0468	2.48e-3	12/4/2020 8:48:05 PM
CCV	1	S9	0.230	1.78	0.0907	12/4/2020 8:49:31 PM
	Known Conc:		100			
CCB	1	S10	-1.27e-3	6.28e-3	6.48e-4	12/4/2020 8:50:58 PM
	Known Conc:		100			
480-178637-c-14-e	1	91	5.46e-3	0.0580	2.60e-3	12/4/2020 8:52:25 PM
480-178637-c-14-f ms	1	92	0.0984	0.772	0.0384	12/4/2020 8:53:52 PM
lcssrm 480-561742/2-a^10	1	93	0.153	1.19	0.0616	12/4/2020 8:55:20 PM
mb 480-561916/1-a	1	94	-2.45e-3	-2.81e-3	4.52e-4	12/4/2020 8:56:47 PM
lcs 480-561916/2-a	1	95	0.250	1.94	0.0987	12/4/2020 8:58:14 PM
ccvl 480-561916/3-a	1	96	0.0782	0.617	0.0313	12/4/2020 8:59:40 PM
480-178443-I-1-a	1	97	-4.69e-3	-0.0200	-9.16e-4	12/4/2020 9:01:07 PM
480-178443-I-1-b du	1	98	2.51e-3	0.0353	9.49e-4	12/4/2020 9:02:34 PM
480-178443-I-2-a	1	99	-2.84e-3	-5.83e-3	-4.24e-4	12/4/2020 9:04:00 PM
480-178443-I-2-b ms	1	100	0.0892	0.701	0.0358	12/4/2020 9:05:27 PM
CCV	1	S9	0.245	1.90	0.0984	12/4/2020 9:06:53 PM
	Known Conc:		100			
CCB	1	S10	-4.12e-3	-0.0156	-6.16e-4	12/4/2020 9:08:19 PM
	Known Conc:		100			
480-178606-f-2-c	1	101	1.47e-3	0.0273	1.56e-3	12/4/2020 9:09:46 PM
480-178606-f-2-d NA	1	102	4.18e-3	0.0481	1.73e-3	12/4/2020 9:11:12 PM
480-178606-f-3-c	1	103	1.32e-3	0.0262	1.30e-3	12/4/2020 9:12:39 PM
480-178606-f-3-d NA	1	104	6.73e-4	0.0212	1.10e-3	12/4/2020 9:14:06 PM
480-178606-f-4-c	1	105	2.18e-3	0.0327	1.61e-3	12/4/2020 9:15:32 PM
480-178606-f-4-d NA	1	106	2.23e-3	0.0331	1.41e-3	12/4/2020 9:16:59 PM
480-178606-f-5-c	1	107	-3.38e-3	-9.92e-3	-7.06e-4	12/4/2020 9:18:26 PM
480-178606-f-5-d NA	1	108	5.09e-4	0.0199	9.52e-4	12/4/2020 9:19:54 PM
480-178606-f-6-c	1	109	8.50e-4	0.0225	9.83e-4	12/4/2020 9:21:21 PM
480-178606-f-6-d NA	1	110	-2.80e-3	-5.52e-3	5.10e-4	12/4/2020 9:22:48 PM
CCV	1	S9	0.254	1.97	0.102	12/4/2020 9:24:14 PM
	Known Conc:		100			
CCB	1	S10	-7.06e-4	0.0106	6.66e-4	12/4/2020 9:25:40 PM
	Known Conc:		100			
480-178611-c-2-c	1	111	-3.85e-3	-0.0136	-7.95e-4	12/4/2020 9:27:07 PM
480-178611-c-2-d ms	1	112	0.0951	0.746	0.0384	12/4/2020 9:28:34 PM
CCV	1	S9	0.257	1.99	0.103	12/4/2020 9:30:00 PM
	Known Conc:		100			
CCB	1	S10	-3.80e-3	-0.0132	-6.56e-4	12/4/2020 9:31:27 PM
	Known Conc:		100			

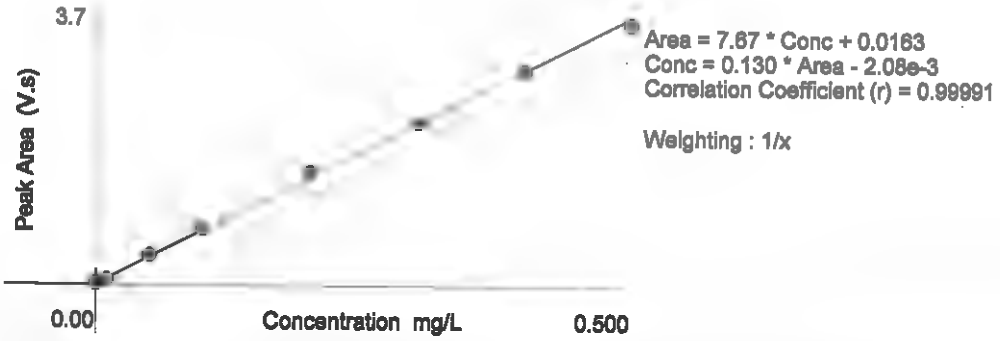
Table : 1 (Cyanide)

	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	3.76	0.195	0.0	2.5	0.487	12/4/2020	5:38:54 PM
2	0.400	1	3.08	0.161	0.0	0.3	0.398	12/4/2020	5:40:19 PM
3	0.300	1	2.33	0.122	0.0	-0.6	0.302	12/4/2020	5:41:47 PM
4	0.200	1	1.61	0.0840	0.0	-3.8	0.207	12/4/2020	5:43:14 PM
5	0.100	1	0.806	0.0426	0.0	-2.9	0.103	12/4/2020	5:44:41 PM
6	0.0500	1	0.425	0.0215	0.0	-6.3	0.0533	12/4/2020	5:46:09 PM
7	0.0100	1	0.0767	4.04e-3	0.0	17.5	7.91e-3	12/4/2020	5:47:37 PM
8	0.00	1	0.0239	6.39e-4			1.03e-3	12/4/2020	5:49:04 PM

Author: BufLachat2

Date : 12/4/2020

Figure : 1 (Cyanide)



1A

~~Non-Amenables~~

561917

Analyst: AT Date: 12/3/20 TestAmerica BUFFALO

SW846 Batch #: _____ Cyanide Micro-Distillation Logbook Logbook # A20-30

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			6mL		
~~CVL~~ LCS	250	3			6mL	✓	
CVL	100	4			6mL		
1288	CS	5					
	CSDu	6					
	C7	7					
	C7MS	8			60mL	✓	
1500	A1	9					
2470	G1	10					
	G2	11					
	G3	12					
	G4	13					
	G5	14					
	G6	15					
	G7	16					
	G8	17					
	G9	18					
1748	O1	19					
	O2	20					
1536	J3	21					
	J3MS	22	✓		60mL	✓	

Start Time: _____

End Time: _____

Check: ✓

Check: ✓

0.400 mg/L Complex CN LCS: 6249391

0.250 mg/L Complex CN LCS: 6249350

0.100 mg/L Free CN CCVL: 6249344

10 ppm Complex CN MS: 6249342

10 ppm Free CN MS: _____

ERA Soil Lot: _____

1.0 N NaOH: _____

7.11M H_2SO_4 / 0.79M $MgCl_2$: _____

H_3NSO_3: 626 1980

$NaCH_3COO$: _____

$ZnCH_3COO$: _____

Heat Block AT: Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: AT Date: 12/3/20

ON: 14:25

OFF: 19:55

1B

non-amenable
561 918

yst: AT Date: 12/3/20
S Batch #:

TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook **Logbook # A20-30**

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6				
LCS	.250	2			6 mL	✓	
LCVL	.100	3			6 mL	✓	
785823	F1	4					
	F1D	5					
	F2	6					
	F2MS	7			60 µL	✓	
785818	L1	8					
	L2	9					
785611	E1	10					
785595	F1	11					
	F2	12					
785596	L3	13					
785601	D1	14					
	D3	15					
	D2	16					
	D4	17					
	D5	18					
	D6	19					
786114	F1	20					NA
	F1	21					
	F1MS	22	✓		60 µL	✓	

Time: ✓
Time: ✓

0.400 mg/L Complex CN LCS:
0.250 mg/L Complex CN LCS: 626 4350
0.100 mg/L Free CN CCVL: 626 4344
10 ppm Complex CN MS: 626 4348
10 ppm Free CN MS:
ERA Soil Lot:

1.9 N NaOH:
7.11M H_2SO_4 / 0.79M $MgCl_2$:
H_3NSO_3: 626 980
$NaCH_3COO$:
$ZnCH_3COO$:

Block B ; Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: AT Date: 12/3/20

ON: 20:15
OFF: 20:45

Distillation BF-WC-CMDL-032
10, 2017

163/200

1C 561919

...yst: A Date: 12/3/20
...S Batch #:

TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook

Logbook # A20-30

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6				
LCS	.250	2			6 mL	✓	
CVL	.100	3			6 mL	✓	
...2685	C3	4					
	C3MS	5			60 µL	✓	
	C3MSD	6			60 µL	✓	
	C1	7					
...2614	F2	8					
	F2	9					NA
	F3	10					
	F3	11					NA
	F4	12					
	F4	13					NA
	F5	14					
	F5	15					NA
	F6	16					
	F6	17					NA
...2481	F1	18					
...2698	C8	19					
	C8/C4	20					
	C6	21					
	C6MS	22	↓		60 µL	✓	

...Time: ______
...Time: ______
...Check: ______ ✓
...Check: ______ ✓

0.400 mg/L Complex CN LCS: ______
0.250 mg/L Complex CN LCS: 6264350
0.100 mg/L Free CN CCVL: 6264344
10 ppm Complex CN MS: 6264348
10 ppm Free CN MS: ______
ERA Soil Lot: ______

1.0 N NaOH: ______
7.11M H_2SO_4 / 0.79M $MgCl_2$: ______
H_3NSO_3: 6266980
$NaCH_3COO$: ______
$ZnCH_3COO$: ______

...Dist Block A ; Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: [signature] Date: 12/3/20

ON @ 20:20
OFF @ 20:50

...Micro Distillation BF-WC-CMDL-032
...October 10, 2017

1H 561742

Analyst: AT Date: 12/2/20

TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook Logbook # A20-30

TALS Batch #:

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1		.5387			
LCSSRM	Ecosoil	2		.5270	.5270 g	✓	
179605	C3	3		.5173			
	C3 MS	4		.5293	60 mL	✓	
	C3 MSD	5		.5184	60 mL	✓	
	C1	6		.5282			
	C2	7		.5153			
	C4	8		.5273			
	C5	9		.5183			
	C6	10		.5348			
	C7	11		.5318			
	C8	12		.5157			
	C9	13		.5160			
178675	B1	14		.5340			
	B2	15		.5448			
	B3	16		.5475			
	B4	17		.5551			
	B5	18		.5504			
178637	C3	19		.5239			
	DUP	20		.5135			
	C14	21		.5651			
	C14 MS	22		.5178	60 mL	✓	

Soil Type: _____
Soil Temp: _____
Check: ✓
Double Check: ✓

0.400 mg/L Complex CN LCS: _____
0.250 mg/L Complex CN LCS: _____
0.100 mg/L Free CN CCVL: _____
10 ppm Complex CN MS: 626348
10 ppm Free CN MS: _____
ERA Soil Lot: 6255340

1.0 N NaOH: _____
7.11M H_2SO_4 / 0.79M $MgCl_2$: _____
H_2NSO_3: 626980
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

Distillation Block A: Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: AT Date: 12/2/20

CN: 21:35
OFF: 22:05

1I

non-amenables

561916

Date: 10/3/20

TestAmerica BUFFALO

Batch #: _____ **Cyanide Micro-Distillation Logbook** **Logbook # A20-30**

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
	Blank	1	6				
	250	2			6mL	✓	
	100	3			6mL	✓	
	L1	4					
	L1 DU	5					
	L2	6					
	L2 MS	7			60µL	✓	
	F2	8					
	F2	9					NA
	F3	10					
	F3	18					NA
	F4	12					
	F4	13					NA
	F5	14					
	F5	15					NA
	F6	16					
	F6	17					NA
	C2	18					
	C2 MS	19			60µL	✓	
		20					
		21					
		22					

0.400 mg/L Complex CN LCS: _____
0.250 mg/L Complex CN LCS: 626350
0.100 mg/L Free CN CCVL: 626344
10 ppm Complex CN MS: 626348
10 ppm Free CN MS: _____
ERA Soil Lot: _____

1.0 N NaOH: _____
7.11M H_2SO_4 / 0.79M $MgCl_2$: _____
H_2NSO_3: 626698
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

Block B : Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: _____ Date: 10/3/20

ON: 19:20
OFF: 19:50

Historical Data Summary Report

For Batch 562067

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-178443-L-1-A	CHA-3I	9012B	Cyanide, Total	Total/NA	mg/L	2	1.0	ND	☐	0 - 0.034	☑	0.008 - 0.012
480-178443-L-2-A	CHA-3S	9012B	Cyanide, Total	Total/NA	mg/L	3	1.0	ND	☐	0 - 0.033	☑	0.008 - 0.012
480-178470-G-1-A	MW-11R	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178470-G-2-A	MW-12B	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178470-G-3-A	MW-2R	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178470-G-4-A	MW-7R	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178470-G-5-A	MW-80B	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178481-F-1-A	PPRS-A7	9012B	Cyanide, Total	Total/NA	mg/L	2	1.0	ND	☐	0 - 0.04	☑	0.008 - 0.012
480-178482-O-1-A	CRL-2I	9012B	Cyanide, Total	Total/NA	mg/L	7	1.0	ND	☐	0 - 0.026	☐	0 - 0.023
480-178518-L-1-A	L103	9012B	Cyanide, Total	Total/NA	mg/L	4	1.0	ND	☐	0 - 0	☐	0 - 0
480-178518-L-2-A	L104	9012B	Cyanide, Total	Total/NA	mg/L	4	1.0	0.010	☐	0 - 0.022	☐	0 - 0.017
480-178523-F-1-A	R27U	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178523-F-2-A	R28M	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-178596-K-3-A	CHA-6I	9012B	Cyanide, Total	Total/NA	mg/L	3	1.0	ND	☐	0 - 0.034	☑	0.008 - 0.012
480-178611-C-2-C	B-13	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

prep 562264
analytical 562422

Solutions:

Potassium Phosphate Buffer	**6267049**	**Exp: 06/02/2021**
Pyridine Barbituric Acid	**6266096**	**Exp: 12/08/2020**
Chloramine-T	**6276311**	**Exp: 12/09/2020**
50ppm INT STD	**6265606**	**Exp: 12/08/2020**
CN .25ppm CCV Std	**6265612**	**Exp: 12/08/2020**
50ppm Secondary source INT STD	**6265613**	**Exp: 12/08/2020**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 12/08/2020
Curve Standard(50 ppm) : 6265606
ICV (0.250 ppm): 6265614

12/09/2020

562422

Author: BufLachat2

Date : 12/8/2020

Original Run Filename: OM_12-8-2020_03-53-57PM.OMN Created: 12/8/2020 3:53:57 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-8-2020_03-53-57PM.OMN Last Modified: 12/8/2020 4:47:50 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	0.241	1.87	0.0970	12/8/2020@3:54:44 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	2.46e-4	0.0179	8.79e-4	12/8/2020@3:58:29 PM
	Known Conc:		0.00			
mb 480-562264/1-a	1	1	5.58e-3	0.0589	1.91e-3	12/8/2020@3:59:56 PM
lcs 480-562264/2-a	1	2	0.448	3.46	0.179	12/8/2020@4:01:24 PM
lcs 480-562264/3-a	1	3	0.261	2.02	0.103	12/8/2020@4:02:51 PM
ccvl 480-562264/4-a	1	4	0.0881	0.693	0.0352	12/8/2020@4:04:18 PM
480-178688-c-8-a	1	5	0.0110	0.101	4.27e-3	12/8/2020@4:07:22 PM
480-178688-c-8-b du	1	6	8.83e-3	0.0838	3.95e-3	12/8/2020@4:08:49 PM
480-178688-c-9-a	1	7	2.85e-3	0.0379	1.43e-3	12/8/2020@4:10:16 PM
480-178688-c-9-b ms	1	8	0.100	0.785	0.0396	12/8/2020@4:11:43 PM
480-178463-o-1-b	1	9	H 7.80e-3	0.0759	3.14e-3	12/8/2020@4:13:09 PM
480-178463-o-2-b	1	10	H 0.0203	0.172	8.09e-3	12/8/2020@4:14:36 PM
CCV	1	S9	0.225	1.74	0.0905	12/8/2020@4:16:02 PM
	Known Conc:		100			
CCB	1	S10	-8.81e-4	9.25e-3	8.45e-4	12/8/2020@4:17:29 PM
	Known Conc:		100			
480-178463-o-3-b	1	11	H 9.59e-3	0.0897	3.61e-3	12/8/2020@4:18:54 PM
480-178463-o-4-b	1	12	H -0.0141	-0.0921	-2.92e-3	12/8/2020@4:20:20 PM
480-178463-o-5-b	1	13	H 0.0165	0.143	5.98e-3	12/8/2020@4:21:47 PM
480-178463-o-6-b	1	14	H 0.0152	0.132	5.10e-3	12/8/2020@4:23:13 PM
480-178469-f-1-b	1	15	0.0116	0.105	4.83e-3	12/8/2020@4:24:39 PM
480-178639-e-1-a	1	16	3.74e-3	0.0448	1.91e-3	12/8/2020@4:26:06 PM
480-178639-e-2-a	1	17	6.29e-3	0.0643	1.93e-3	12/8/2020@4:27:33 PM
480-178639-e-3-a	1	18	3.15e-3	0.0402	1.74e-3	12/8/2020@4:29:01 PM
480-178639-e-4-a	1	19	4.25e-3	0.0487	1.64e-3	12/8/2020@4:30:28 PM
480-178639-e-5-a	1	20	0.0128	0.114	5.68e-3	12/8/2020@4:31:55 PM
CCV	1	S9	0.248	1.92	0.101	12/8/2020@4:33:21 PM
	Known Conc:		100			
CCB	1	S10	-4.59e-4	0.0125	5.50e-4	12/8/2020@4:34:47 PM
	Known Conc:		100			
480-179016-j-13-a	1	21	2.71e-3	0.0368	1.61e-3	12/8/2020@4:36:14 PM
480-179016-j-13-b ms	1	22	0.100	0.787	0.0392	12/8/2020@4:37:40 PM
480-178688-c-8-a	1	23	8.39e-3	0.0804	4.02e-3	12/8/2020@4:39:07 PM
480-178463-o-2-b	1	24	0.0224	0.188	8.59e-3	12/8/2020@4:40:34 PM
480-178639-e-5-a	1	25	0.0176	0.151	8.09e-3	12/8/2020@4:42:00 PM
CCV	1	S9	0.228	1.77	0.0922	12/8/2020@4:43:26 PM
	Known Conc:		100			
CCB	1	S10	-1.08e-3	7.71e-3	5.53e-4	12/8/2020@4:44:53 PM
	Known Conc:		100			

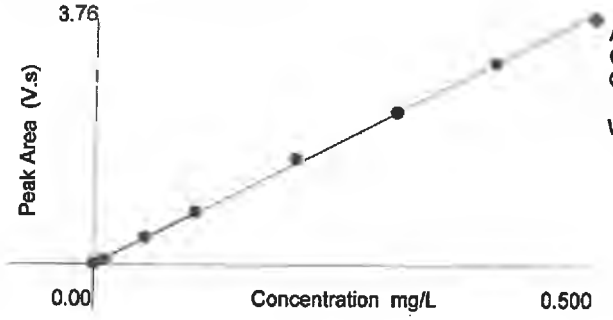
Author: BufLachat2

Date : 12/8/2020

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	3.76	0.195	0.0	2.5	0.487	12/4/2020	5:38:54 PM
2	0.400	1	3.08	0.161	0.0	0.3	0.398	12/4/2020	5:40:19 PM
3	0.300	1	2.33	0.122	0.0	-0.6	0.302	12/4/2020	5:41:47 PM
4	0.200	1	1.61	0.0840	0.0	-3.8	0.207	12/4/2020	5:43:14 PM
5	0.100	1	0.806	0.0426	0.0	-2.9	0.103	12/4/2020	5:44:41 PM
6	0.0500	1	0.425	0.0215	0.0	-6.3	0.0533	12/4/2020	5:46:09 PM
7	0.0100	1	0.0767	4.04e-3	0.0	17.5	7.91e-3	12/4/2020	5:47:37 PM
8	0.00	1	0.0239	6.39e-4			1.03e-3	12/4/2020	5:49:04 PM

Figure : 1 (Cyanide)



Area = 7.67 * Conc + 0.0163
Conc = 0.130 * Area - 2.08e-3
Correlation Coefficient (r) = 0.99991

Weighting : 1/x

12/09/2020

Historical Data Summary Report

For Batch 562422

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-178469-F-1-B	TANK	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	0.012	☐	0 - 0.024	☐	0 - 0.016
480-178639-E-1-A	BLIND DUPLICATE	335.4	Cyanide, Total	Total/NA	mg/L	4	1.0	ND	☐	0 - 0	☐	0 - 0
480-178639-E-3-A	East Ditch	335.4	Cyanide, Total	Total/NA	mg/L	3	1.0	ND	☐	0 - 0	☐	0 - 0
480-178639-E-4-A	MW-1A	335.4	Cyanide, Total	Total/NA	mg/L	4	1.0	ND	☐	0 - 0	☐	0 - 0
480-178639-E-5-A	MW-1B	335.4	Cyanide, Total	Total/NA	mg/L	4	1.0	0.013 .01%	☑	0 - 0	☑	0 - 0 same batch

12/09/2021

1A 562264

Analyst: AT Date: 12/7/20 **TestAmerica BUFFALO**
LLS Batch #: _____ **Cyanide Micro-Distillation Logbook** **Logbook # A20-30**

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6				
CS	.400	2			6mL	✓	
CS	.250	3			6mL		
CCVL	.100	4			6mL	✓	
78688	C8	5					
	C8 DU	6					
	C9	7					
	C9 MS	8			60mL	✓	
78463	O1	9					
	O2	10					
	O3	11					
	O4	12					
	O5	13					
	O6	14					
78469	F1	15					
78639	E1	16					
	E2	17					
	E3	18					
	E4	19					
	E5	20					
79016	J13	21	✓				
	J13 MS	22			60mL	✓	

0.400 mg/L Complex CN LCS: 6274442
0.250 mg/L Complex CN LCS: 6274443
0.100 mg/L Free CN CCVL: 6274439
10 ppm Complex CN MS: 6274441
10 ppm Free CN MS: _____
ERA Soil Lot: _____

1.0 N NaOH: _____
7.11M H_2SO_4 / 0.79M $MgCl_2$: _____
H_2NSO_3: 6266980
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

Block B : Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: AT Date: 12/7/20

Revision BF-WC-CMDL-032

ON: 16:15
OFF: 16:45

167/200

Mandatory 12/09/2020

prep 562264
analytical 562422

Solutions:

Potassium Phosphate Buffer	**6267049**	**Exp: 06/02/2021**
Pyridine Barbituric Acid	**6266096**	**Exp: 12/08/2020**
Chloramine-T	**6276311**	**Exp: 12/09/2020**
50ppm INT STD	**6265606**	**Exp: 12/08/2020**
CN .25ppm CCV Std	**6265612**	**Exp: 12/08/2020**
50ppm Secondary source INT STD	**6265613**	**Exp: 12/08/2020**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 12/08/2020
Curve Standard(50 ppm) : 6265606
ICV (0.250 ppm): 6265614

562422

Author: BufLachat2

Date : 12/8/2020

Original Run Filename: OM_12-8-2020_03-53-57PM.OMN Created: 12/8/2020 3:53:57 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-8-2020_03-53-57PM.OMN Last Modified: 12/8/2020 4:47:50 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	0.241	1.87	0.0970	12/8/2020@3:54:44 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	2.46e-4	0.0179	8.79e-4	12/8/2020@3:58:29 PM
	Known Conc:		0.00			
mb 480-562264/1-a	1	1	5.58e-3	0.0589	1.91e-3	12/8/2020@3:59:56 PM
lcs 480-562264/2-a	1	2	0.448	3.46	0.179	12/8/2020@4:01:24 PM
lcs 480-562264/3-a	1	3	0.261	2.02	0.103	12/8/2020@4:02:51 PM
ccvl 480-562264/4-a	1	4	0.0881	0.693	0.0352	12/8/2020@4:04:18 PM
480-178688-c-8-a	1	5	0.0110	0.101	4.27e-3	12/8/2020@4:07:22 PM
480-178688-c-8-b du	1	6	8.83e-3	0.0838	3.95e-3	12/8/2020@4:08:49 PM
480-178688-c-9-a	1	7	2.85e-3	0.0379	1.43e-3	12/8/2020@4:10:16 PM
480-178688-c-9-b ms	1	8	0.100	0.785	0.0396	12/8/2020@4:11:43 PM
480-178463-o-1-b	1	9	7.80e-3	0.0759	3.14e-3	12/8/2020@4:13:09 PM
480-178463-o-2-b	1	10	0.0203	0.172	8.09e-3	12/8/2020@4:14:36 PM
CCV	1	S9	0.225	1.74	0.0905	12/8/2020@4:16:02 PM
	Known Conc:		100			
CCB	1	S10	-8.81e-4	9.25e-3	8.45e-4	12/8/2020@4:17:29 PM
	Known Conc:		100			
480-178463-o-3-b	1	11	9.59e-3	0.0897	3.61e-3	12/8/2020@4:18:54 PM
480-178463-o-4-b	1	12	-0.0141	-0.0921	-2.92e-3	12/8/2020@4:20:20 PM
480-178463-o-5-b	1	13	0.0165	0.143	5.98e-3	12/8/2020@4:21:47 PM
480-178463-o-6-b	1	14	0.0152	0.132	5.10e-3	12/8/2020@4:23:13 PM
480-178469-f-1-b	1	15	0.0116	0.105	4.83e-3	12/8/2020@4:24:39 PM
480-178639-e-1-a	1	16	3.74e-3	0.0448	1.91e-3	12/8/2020@4:26:06 PM
480-178639-e-2-a	1	17	6.29e-3	0.0643	1.93e-3	12/8/2020@4:27:33 PM
480-178639-e-3-a	1	18	3.15e-3	0.0402	1.74e-3	12/8/2020@4:29:01 PM
480-178639-e-4-a	1	19	4.25e-3	0.0487	1.64e-3	12/8/2020@4:30:28 PM
480-178639-e-5-a	1	20	0.0128	0.114	5.68e-3	12/8/2020@4:31:55 PM
CCV	1	S9	0.248	1.92	0.101	12/8/2020@4:33:21 PM
	Known Conc:		100			
CCB	1	S10	-4.59e-4	0.0125	5.50e-4	12/8/2020@4:34:47 PM
	Known Conc:		100			
480-179016-j-13-a	1	21	2.71e-3	0.0368	1.61e-3	12/8/2020@4:36:14 PM
480-179016-j-13-b ms	1	22	0.100	0.787	0.0392	12/8/2020@4:37:40 PM
480-178688-c-8-a	1	23	8.39e-3	0.0804	4.02e-3	12/8/2020@4:39:07 PM
480-178463-o-2-b	1	24	0.0224	0.188	8.59e-3	12/8/2020@4:40:34 PM
480-178639-e-5-a	1	25	0.0176	0.151	8.09e-3	12/8/2020@4:42:00 PM
CCV	1	S9	0.228	1.77	0.0922	12/8/2020@4:43:26 PM
	Known Conc:		100			
CCB	1	S10	-1.08e-3	7.71e-3	5.53e-4	12/8/2020@4:44:53 PM
	Known Conc:		100			

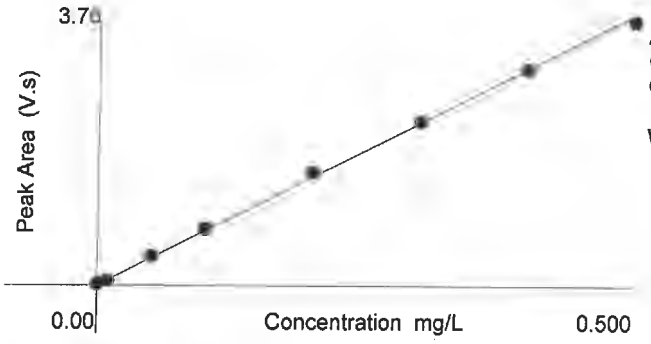
Author: BufLachat2

Date : 12/8/2020

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	3.76	0.195	0.0	2.5	0.487	12/4/2020	5:38:54 PM
2	0.400	1	3.08	0.161	0.0	0.3	0.398	12/4/2020	5:40:19 PM
3	0.300	1	2.33	0.122	0.0	-0.6	0.302	12/4/2020	5:41:47 PM
4	0.200	1	1.61	0.0840	0.0	-3.8	0.207	12/4/2020	5:43:14 PM
5	0.100	1	0.806	0.0426	0.0	-2.9	0.103	12/4/2020	5:44:41 PM
6	0.0500	1	0.425	0.0215	0.0	-6.3	0.0533	12/4/2020	5:46:09 PM
7	0.0100	1	0.0767	4.04e-3	0.0	17.5	7.91e-3	12/4/2020	5:47:37 PM
8	0.00	1	0.0239	6.39e-4			1.03e-3	12/4/2020	5:49:04 PM

Figure : 1 (Cyanide)



Area = 7.67 * Conc + 0.0163
Conc = 0.130 * Area - 2.08e-3
Correlation Coefficient (r) = 0.99991

Weighting : 1/x

Historical Data Summary Report

For Batch 562422

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-178469-F-1-B	TANK	9012B	Cyanide, Total	Total/NA	mg/L	8	1.0	0.012	☐	0 - 0.024	☐	0 - 0.016
480-178639-E-1-A	BLIND DUPLICATE	335.4	Cyanide, Total	Total/NA	mg/L	4	1.0	ND	☐	0 - 0	☐	0 - 0
480-178639-E-3-A	East Ditch	335.4	Cyanide, Total	Total/NA	mg/L	3	1.0	ND	☐	0 - 0	☐	0 - 0
480-178639-E-4-A	MW-1A	335.4	Cyanide, Total	Total/NA	mg/L	4	1.0	ND	☐	0 - 0	☐	0 - 0
480-178639-E-5-A	MW-1B	335.4	Cyanide, Total	Total/NA	mg/L	4	1.0	0.013 .012	☑	0 - 0	☑	0 - 0 same batch

1A 562264

Analyst: AT Date: 12/7/20 **TestAmerica BUFFALO**
WLS Batch #: _____ **Cyanide Micro-Distillation Logbook** **Logbook # A20-30**

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6				
CS	.400	2			6mL	✓	
CS	.250	3			6mL		
CVL	.100	4			6mL	✓	
78688	C8	5					
	C8TN	6					
	C9	7					
	C9 MS	8			60mL	✓	
78463	O1	9					
	O2	10					
	O3	11					
	O4	12					
	O5	13					
	O6	14					
78164	F1	15					
78639	E1	16					
	E2	17					
	E3	18					
	E4	19					
	E5	20					
79016	J13	21	✓				
	J13 MS	22			60mL	✓	

Flask ____ 0.400 mg/L Complex CN LCS: 6274442 1.0 N NaOH: ____
Flask ____ 0.250 mg/L Complex CN LCS: 6274443 7.11M H_2SO_4 / 0.79M $MgCl_2$: ____
Flask ✓ 0.100 mg/L Free CN CCVL: 6274439 H_3NSO_3: 6266980
____ 10 ppm Complex CN MS: 6274441 $NaCH_3COO$: ____
____ 10 ppm Free CN MS: ____ $ZnCH_3COO$: ____
ERA Soil Lot: ____

Heating Block B : Set Temp. (°C): 120 Measured Start Temp. (°C): 120 Measured End Temp. (°C): 120

Reviewed By: AT Date: 12/7/20

ON: 16:15
OFF: 16:45

Micro-Distillation BF-WC-CMDL-032
Rev. 10, 2017

167/200

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 561917 Batch Start Date: 12/03/20 20:30 Batch Analyst: Toy, Amy L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	10ppm CN MS 00143	CN LCS 250 00162	LCS 400 00158	
MB 480-561917/1		9012B, 9012B		6 mL	6 mL				
LCS 480-561917/2		9012B, 9012B		6 mL	6 mL			6 mL	
LCS 480-561917/3		9012B, 9012B		6 mL	6 mL		6 mL		
480-178688-C-5	MW-01-17-D	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-5 DU	MW-01-17-D	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-7	EB112420	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-7 MS	EB112420	9012B, 9012B	T	6 mL	6 mL	60 uL			

Batch Notes	
Chlorination End Time	12/03/2020 19:25
Chlorination Start Time	12/03/2020 19:25
Distillation End Time	12/03/2020 19:55
Distillation Start Time	12/03/2020 19:25

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 561919 Batch Start Date: 12/03/20 20:39 Batch Analyst: Toy, Amy L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	10ppm CN MS 00143	CN LCS 250 00162		
MB 480-561919/1		9012B, 9012B		6 mL	6 mL				
LCS 480-561919/2		9012B, 9012B		6 mL	6 mL		6 mL		
480-178688-C-3	MW-97-14-D	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-3 MS	MW-97-14-D MS	9012B, 9012B	T	6 mL	6 mL	60 uL			
480-178688-C-3 MSD	MW-97-14-D MSD	9012B, 9012B	T	6 mL	6 mL	60 uL			
480-178688-C-1	PZ93-1	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-2	MW93-05D	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-4	MW-97-14-S	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-6	DUP112320	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-6 MS	DUP112320	9012B, 9012B	T	6 mL	6 mL	60 uL			

Batch Notes	
Chlorination End Time	12/03/2020 20:20
Chlorination Start Time	12/03/2020 20:20
Distillation End Time	12/03/2020 20:50
Distillation Start Time	12/03/2020 20:20

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 562067 Batch Start Date: 12/04/20 18:05 Batch Analyst: Ferguson, Katelyn M

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01399			
CCV 480-562067/1		9012B		5 mL	5 mL	5 mL			
CCB 480-562067/2		9012B		5 mL	5 mL				
MB 480-561917/1-A		9012B		5 mL	5 mL				
LCS 480-561917/2-A		9012B		5 mL	5 mL				
LCS 480-561917/3-A		9012B		5 mL	5 mL				
480-178688-C-5-A	MW-01-17-D	9012B	T	5 mL	5 mL				
480-178688-C-5-B DU	MW-01-17-D	9012B	T	5 mL	5 mL				
480-178688-C-7-A	EB112420	9012B	T	5 mL	5 mL				
480-178688-C-7-B MS	EB112420	9012B	T	5 mL	5 mL				
CCV 480-562067/13		9012B		5 mL	5 mL	5 mL			
CCB 480-562067/14		9012B		5 mL	5 mL				
CCV 480-562067/49		9012B		5 mL	5 mL	5 mL			
CCB 480-562067/50		9012B		5 mL	5 mL				
MB 480-561919/1-A		9012B		5 mL	5 mL				
LCS 480-561919/2-A		9012B		5 mL	5 mL				
CCV 480-562067/61		9012B		5 mL	5 mL	5 mL			
CCB 480-562067/62		9012B		5 mL	5 mL				
480-178688-C-3-A	MW-97-14-D	9012B	T	5 mL	5 mL				
480-178688-C-3-B MS	MW-97-14-D MS	9012B	T	5 mL	5 mL				
480-178688-C-3-C MSD	MW-97-14-D MSD	9012B	T	5 mL	5 mL				
480-178688-C-1-A	PZ93-1	9012B	T	5 mL	5 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 562067 Batch Start Date: 12/04/20 18:05 Batch Analyst: Ferguson, Katelyn M

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01399			
CCV 480-562067/73		9012B		5 mL	5 mL	5 mL			
CCB 480-562067/74		9012B		5 mL	5 mL				
480-178688-C-2-A	MW93-05D	9012B	T	5 mL	5 mL				
480-178688-C-4-A	MW-97-14-S	9012B	T	5 mL	5 mL				
480-178688-C-6-A	DUP112320	9012B	T	5 mL	5 mL				
480-178688-C-6-B MS	DUP112320	9012B	T	5 mL	5 mL				
CCV 480-562067/85		9012B		5 mL	5 mL	5 mL			
CCB 480-562067/86		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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 562264 Batch Start Date: 12/07/20 17:26 Batch Analyst: Toy, Amy L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	10ppm CN MS 00144	CN LCS 250 00163	LCS 400 00159	
MB 480-562264/1		9012B, 9012B		6 mL	6 mL				
LCS 480-562264/2		9012B, 9012B		6 mL	6 mL			6 mL	
LCS 480-562264/3		9012B, 9012B		6 mL	6 mL		6 mL		
480-178688-C-8	NMW-01	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-8 DU	NMW-01	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-9	MW-01-07-R	9012B, 9012B	T	6 mL	6 mL				
480-178688-C-9 MS	MW-01-07-R	9012B, 9012B	T	6 mL	6 mL	60 uL			

Batch Notes	
Chlorination End Time	12/07/2020 16:15
Chlorination Start Time	12/07/2020 16:15
Distillation End Time	12/07/2020 16:45
Distillation Start Time	12/07/2020 16:15

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: Eurofins TestAmerica, Buffalo Job No.: 480-178688-1

SDG No.:

Batch Number: 562422 Batch Start Date: 12/08/20 15:54 Batch Analyst: Toy, Amy L

Batch Method: 9012B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01399			
CCV 480-562422/1		9012B		5 mL	5 mL	# mL			
CCB 480-562422/2		9012B		5 mL	5 mL				
MB 480-562264/1-A		9012B		5 mL	5 mL				
LCS 480-562264/2-A		9012B		5 mL	5 mL				
LCS 480-562264/3-A		9012B		5 mL	5 mL				
480-178688-C-8-A	NMW-01	9012B	T	5 mL	5 mL				
480-178688-C-8-B DU	NMW-01	9012B	T	5 mL	5 mL				
480-178688-C-9-A	MW-01-07-R	9012B	T	5 mL	5 mL				
480-178688-C-9-B MS	MW-01-07-R	9012B	T	5 mL	5 mL				
CCV 480-562422/13		9012B		5 mL	5 mL	# mL			
CCB 480-562422/14		9012B		5 mL	5 mL				
CCV 480-562422/25		9012B		5 mL	5 mL	# mL			
CCB 480-562422/26		9012B		5 mL	5 mL				
480-178688-C-8-A	NMW-01	9012B	T	5 mL	5 mL				
CCV 480-562422/32		9012B		5 mL	5 mL	# mL			
CCB 480-562422/33		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

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Joshua Miller	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-153072-34014.2
Client Contact: Mr. Jason Golubski	Phone: (315) 486-1419	E-Mail: John.Schove@Eurofinset.com		Page: Page 2 of 2
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone:	PO #: Purchase Order not required			
Email: jason.golubski@arcadis-us.com	WO #:			
Project Name: NYSEG Groundwater Analysis - Binghamton,	Project #: 48023037			
Site: Court Street Binghamton	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - LCyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	B		
PZ93-1	11/23/20	1236	G	Water			X	X	X		
MW93-050	11/23/20	1302	G	Water			X	X	X		
MW-97-14-D	11/23/20	1415	G	Water		X	X	X	X		
MW-97-14-S	11/23/20	1435	G	Water			X	X	X		
MW 01-17-D	11/24/20	1076	G	Water			X	X	X		
DUP 112320	11/23/20	—	G	Water			X	X	X		
EB112420	11/24/20	0925	G	Water			X	X	X		
~~MW97-7~~ NMW-01	11/24/20	1257	G	Water			X	X	X		
~~PZ-03-01-D~~ MW-01-07-R	11/24/20	1224	G	Water			X	X	X		
TRIP BLANK	Lab Provided		G	Water				X			

480-178688 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	11/24/20 / 1300	Arcadis	[signature]	11/25/20 1200	TAS
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: #1 3.3

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-178688-1

Login Number: 178688
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

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	3.3 #1 icE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Attachment 4

Data Usability Summary Report

ARCADIS Design & Consultancy for natural and built assets

NYSEG Binghamton Court Street Site

DATA USABILITY SUMMARY REPORT

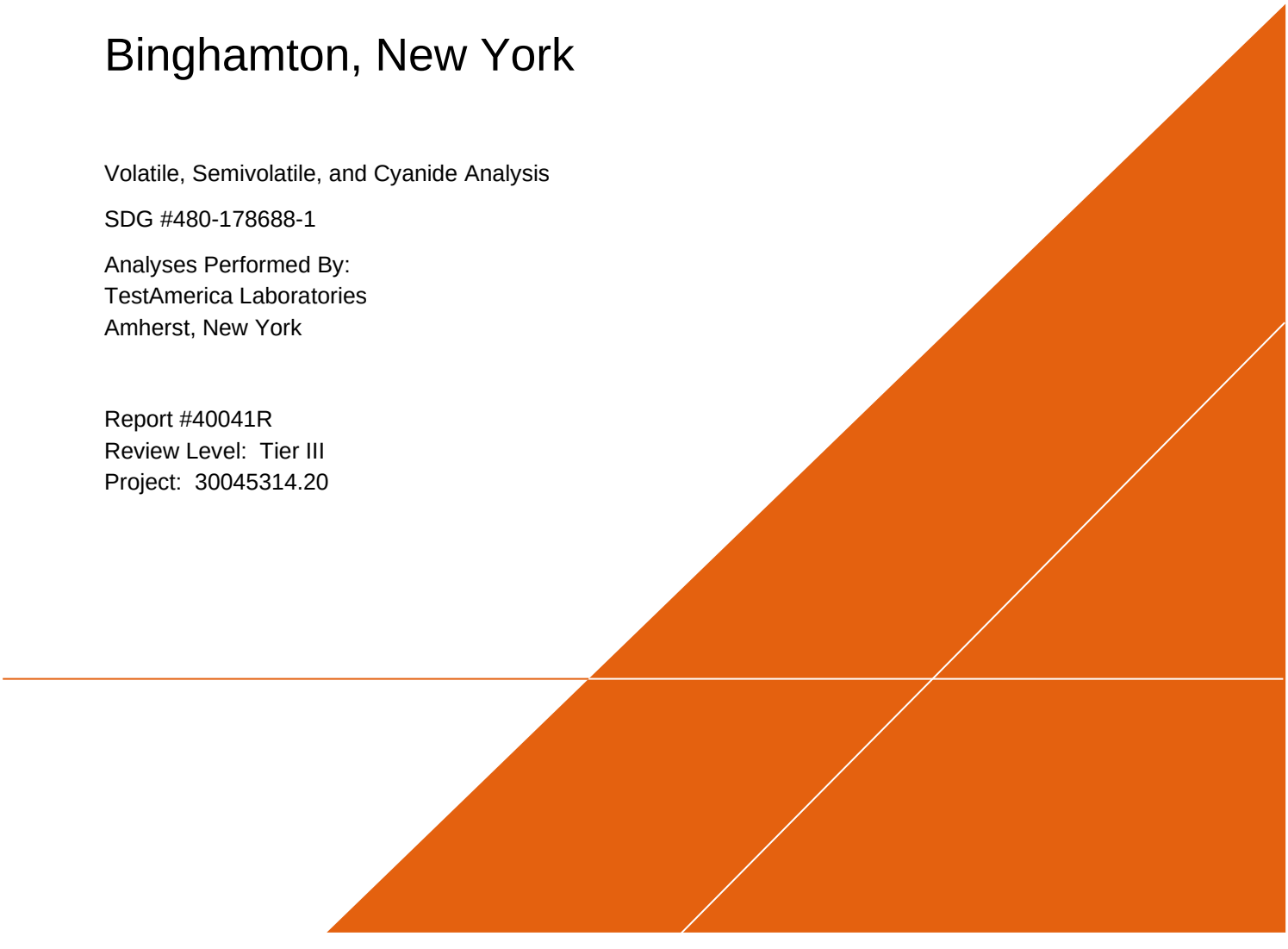
Binghamton, New York

Volatile, Semivolatile, and Cyanide Analysis

SDG #480-178688-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, New York

Report #40041R
Review Level: Tier III
Project: 30045314.20



SUMMARY

This data usability summary report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-178688-1 for samples collected in association with the NYSEG Binghamton Court Street 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:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
PZ93-1	480-178688-1	Water	11/23/2020		X	X			X
MW93-05D	480-178688-2	Water	11/23/2020		X	X			X
MW-97-14 -D	480-178688-3	Water	11/23/2020		X	X			X
MW-97-14-S	480-178688-4	Water	11/23/2020		X	X			X
MW-01-17-D	480-178688-5	Water	11/24/2020		X	X			X
DUP112320	480-178688-6	Water	11/23/2020	MW-97-14-S	X	X			X
EB112420	480-178688-7	Water	11/24/2020		X	X			X
NMW-01	480-178688-8	Water	11/24/2020		X	X			X
MW-01-07-R	480-178688-9	Water	11/24/2020		X	X			X
TRIP BLANK	480-178688-10	Water	11/24/2020		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-97-14 -D.

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

The sample IDs listed on the COC as MW-97-7 and PZ-03-01D listed on the COC were changed to NMW-01 and MW-01-07-R, respectively, at the request of the project team due to misidentification at the time of sampling.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines (October 1999) and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

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.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times/Preservation

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

Method	Matrix	Holding Time	Preservation
SW-846 8260	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 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. 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 require 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 (LCS) Analysis

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

All compounds associated with the LCS 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 and 50% for soil 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 or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-97-14-S / DUP112320	All compounds	U	U	AC

Notes:
AC Acceptable

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

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					
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	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
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 8270	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.

The MS/MSD exhibited acceptable recoveries; however, 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-97-14-D	Benzo[a]anthracene
	Benzo[a]pyrene
	Benzo[b]fluoranthene
	Benzo[g,h,i]perylene
	Chrysene
	Dibenz(a,h)anthracene
	Indeno[1,2,3-cd]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 (LCS) Analysis

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

All compounds associated with the LCS 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 and 50% for soil 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 or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-97-14-S / DUP112320	All compounds	U	U	AC

Notes:
AC Acceptable

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

10. Compound Identification

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

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
PZ93-1	Naphthalene	1100 E	3700 D	3700 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

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
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					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 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
Total Cyanide 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.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) from the data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
NMW-01	Cyanide, Total	Detected sample results <RL and <BAL	“UB” at the RL

Note:

RL = reporting limit

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/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD 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/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD 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/MSD analysis exhibited recoveries and RPDs within the control limits.

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 sample results exhibited RPD within the control limit.

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	Analyte	Sample Result	Duplicate Result	RPD
MW-97-14-S / DUP112320	Cyanide	0.0073 J	0.0089 J	AC

Note:
AC = acceptable

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 and RPDs 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	
480-178688-1	11/23/2020	USEPA/ SW846	PZ93-1	Water	Yes	Yes	--	--	Yes	
	11/23/2020	USEPA/ SW846	MW93-05D	Water	Yes	Yes	--	--	Yes	
	11/23/2020	USEPA/ SW846	MW-97-14 -D	Water	Yes	Yes	--	--	Yes	
	11/23/2020	USEPA/ SW846	MW-97-14-S	Water	Yes	Yes	--	--	Yes	
	11/24/2020	USEPA/ SW846	MW-01-17-D	Water	Yes	No	--	--	Yes	SVOC – MS/MSD RPD
	11/23/2020	USEPA/ SW846	DUP112320	Water	Yes	Yes	--	--	Yes	
	11/24/2020	USEPA/ SW846	EB112420	Water	Yes	Yes	--	--	Yes	
	11/24/2020	USEPA/ SW846	NMW-01	Water	Yes	Yes	--	--	No	MISC – method blank contamination
	11/24/2020	USEPA/ SW846	MW-01-07-R	Water	Yes	Yes	--	--	Yes	
	11/24/2020	USEPA/ SW846	TRIP BLANK	Water	Yes	--	--	--	--	

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: January 27, 2021

PEER REVIEW: Todd Church

DATE: January 28, 2021

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Joshua Miller	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-153072-34014.2
Client Contact: Mr. Jason Golubski	Phone: (315) 486-1419	E-Mail: John.Schove@Eurofinset.com		Page: Page 2 of 2
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone:	PO #: Purchase Order not required			
Email: jason.golubski@arcadis-us.com	WO #:			
Project Name: NYSEG Groundwater Analysis - Binghamton,	Project #: 48023037			
Site: Court Street Binghamton	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	9012B - LCyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	B		
PZ93-1	11/23/20	1236	G	Water			X	X	X		
MW93-05D	11/23/20	1302	G	Water			X	X	X		
MW-97-14-D	11/23/20	1415	G	Water		X	X	X	X		
MW-97-14-S	11/23/20	1435	G	Water			X	X	X		
MW-01-17-D	11/24/20	1036	G	Water			X	X	X		
DUP112320	11/23/20	—	G	Water			X	X	X		
EB112420	11/24/20	0925	G	Water			X	X	X		
MW97-7	11/24/20	1257	G	Water			X	X	X		
PZ-03-01-D	11/24/20	1224	G	Water			X	X	X		
TRIP BLANK	Lab Provided		G	Water				X			

480-178688 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/24/20 1300	Arcadis		11/25/20 1200	TAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		#1 3.3

Ver: 01/16/2019

12/10/2020

Client Sample ID: PZ93-1
Date Collected: 11/23/20 12:36
Date Received: 11/25/20 12:00

Lab Sample ID: 480-178688-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**21**		20	8.2	ug/L			11/28/20 15:12	20
Ethylbenzene	**920**		20	15	ug/L			11/28/20 15:12	20
Toluene	**120**		20	10	ug/L			11/28/20 15:12	20
Xylenes, Total	**450**		40	13	ug/L			11/28/20 15:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 15:12*	*20*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*11/28/20 15:12*	*20*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*11/28/20 15:12*	*20*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/28/20 15:12*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**220**		25	2.1	ug/L		11/30/20 09:11	12/01/20 23:34	5
Acenaphthylene	**2.3**	**J**	25	1.9	ug/L		11/30/20 09:11	12/01/20 23:34	5
Anthracene	**4.2**	**J**	25	1.4	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[a]anthracene	ND		25	1.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[a]pyrene	ND		25	2.4	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		11/30/20 09:11	12/01/20 23:34	5
Chrysene	ND		25	1.7	ug/L		11/30/20 09:11	12/01/20 23:34	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/30/20 09:11	12/01/20 23:34	5
Fluoranthene	**5.7**	**J**	25	2.0	ug/L		11/30/20 09:11	12/01/20 23:34	5
Fluorene	**84**		25	1.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		11/30/20 09:11	12/01/20 23:34	5
Naphthalene	3700 D **~~1100~~**	**~~E~~**	25	3.8	ug/L		11/30/20 09:11	12/01/20 23:34	5
Phenanthrene	**62**		25	2.2	ug/L		11/30/20 09:11	12/01/20 23:34	5
Pyrene	**10**	**J**	25	1.7	ug/L		11/30/20 09:11	12/01/20 23:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*48 - 120*	*11/30/20 09:11*	*12/01/20 23:34*	*5*
Nitrobenzene-d5 (Surr)	*75*		*46 - 120*	*11/30/20 09:11*	*12/01/20 23:34*	*5*
p-Terphenyl-d14 (Surr)	*83*		*60 - 148*	*11/30/20 09:11*	*12/01/20 23:34*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**220**	**J**	500	41	ug/L		11/30/20 09:11	12/03/20 23:39	100
Acenaphthylene	ND		500	38	ug/L		11/30/20 09:11	12/03/20 23:39	100
Anthracene	ND		500	28	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[a]anthracene	ND		500	36	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[a]pyrene	ND		500	47	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[b]fluoranthene	ND		500	34	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[g,h,i]perylene	ND		500	35	ug/L		11/30/20 09:11	12/03/20 23:39	100
Benzo[k]fluoranthene	ND		500	73	ug/L		11/30/20 09:11	12/03/20 23:39	100
Chrysene	ND		500	33	ug/L		11/30/20 09:11	12/03/20 23:39	100
Dibenz(a,h)anthracene	ND		500	42	ug/L		11/30/20 09:11	12/03/20 23:39	100
Fluoranthene	ND		500	40	ug/L		11/30/20 09:11	12/03/20 23:39	100
Fluorene	**83**	**J**	500	36	ug/L		11/30/20 09:11	12/03/20 23:39	100
Indeno[1,2,3-cd]pyrene	ND		500	47	ug/L		11/30/20 09:11	12/03/20 23:39	100

Client Sample ID: PZ93-1
Lab Sample ID: 480-178688-1
Date Collected: 11/23/20 12:36
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3700**		500	76	ug/L		11/30/20 09:11	12/03/20 23:39	100
Phenanthrene	**66**	**J**	500	44	ug/L		11/30/20 09:11	12/03/20 23:39	100
Pyrene	ND		500	34	ug/L		11/30/20 09:11	12/03/20 23:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*48 - 120*	*11/30/20 09:11*	*12/03/20 23:39*	*100*
Nitrobenzene-d5 (Surr)	*118*		*46 - 120*	*11/30/20 09:11*	*12/03/20 23:39*	*100*
p-Terphenyl-d14 (Surr)	*79*		*60 - 148*	*11/30/20 09:11*	*12/03/20 23:39*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.011**		0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 19:48	1

Client Sample ID: MW93-05D
Lab Sample ID: 480-178688-2
Date Collected: 11/23/20 13:02
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 15:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 15:37	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 15:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*11/28/20 15:37*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/28/20 15:37*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*11/28/20 15:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/28/20 15:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 00:03	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 00:03	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 00:03	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 00:03	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 00:03	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 00:03	1
Fluoranthene	**0.87**	**J**	5.0	0.40	ug/L		11/30/20 09:11	12/02/20 00:03	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:03	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 00:03	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 00:03	1
Pyrene	**1.4**	**J**	5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*48 - 120*	*11/30/20 09:11*	*12/02/20 00:03*	*1*

Client Sample ID: MW93-05D
Lab Sample ID: 480-178688-2
Date Collected: 11/23/20 13:02
Matrix: Water
Date Received: 11/25/20 12:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*104*		*46 - 120*	*11/30/20 09:11*	*12/02/20 00:03*	*1*
p-Terphenyl-d14 (Surr)	*107*		*60 - 148*	*11/30/20 09:11*	*12/02/20 00:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 20:09	1

Client Sample ID: MW-97-14 -D
Lab Sample ID: 480-178688-3
Date Collected: 11/23/20 14:15
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 16:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 16:02	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 16:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/28/20 16:02*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*11/28/20 16:02*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*11/28/20 16:02*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/28/20 16:02*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND			5.0	0.41	ug/L		11/30/20 09:11	12/01/20 20:14	1
Acenaphthylene	ND			5.0	0.38	ug/L		11/30/20 09:11	12/01/20 20:14	1
Anthracene	ND			5.0	0.28	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[a]anthracene	ND	F2	UJ	5.0	0.36	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[a]pyrene	ND	F2	UJ	5.0	0.47	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[b]fluoranthene	ND	F2	UJ	5.0	0.34	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[g,h,i]perylene	ND	F2	UJ	5.0	0.35	ug/L		11/30/20 09:11	12/01/20 20:14	1
Benzo[k]fluoranthene	ND			5.0	0.73	ug/L		11/30/20 09:11	12/01/20 20:14	1
Chrysene	ND	F2	UJ	5.0	0.33	ug/L		11/30/20 09:11	12/01/20 20:14	1
Dibenz(a,h)anthracene	ND	F2	UJ	5.0	0.42	ug/L		11/30/20 09:11	12/01/20 20:14	1
Fluoranthene	ND			5.0	0.40	ug/L		11/30/20 09:11	12/01/20 20:14	1
Fluorene	ND			5.0	0.36	ug/L		11/30/20 09:11	12/01/20 20:14	1
Indeno[1,2,3-cd]pyrene	ND	F2	UJ	5.0	0.47	ug/L		11/30/20 09:11	12/01/20 20:14	1
Naphthalene	ND			5.0	0.76	ug/L		11/30/20 09:11	12/01/20 20:14	1
Phenanthrene	ND			5.0	0.44	ug/L		11/30/20 09:11	12/01/20 20:14	1
Pyrene	ND			5.0	0.34	ug/L		11/30/20 09:11	12/01/20 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*48 - 120*	*11/30/20 09:11*	*12/01/20 20:14*	*1*
Nitrobenzene-d5 (Surr)	*97*		*46 - 120*	*11/30/20 09:11*	*12/01/20 20:14*	*1*
p-Terphenyl-d14 (Surr)	*102*		*60 - 148*	*11/30/20 09:11*	*12/01/20 20:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1	0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 19:44	1

Client Sample ID: MW-97-14-S
Lab Sample ID: 480-178688-4
Date Collected: 11/23/20 14:35
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 16:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 16:27	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 16:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 16:27*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/28/20 16:27*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*11/28/20 16:27*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/28/20 16:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 00:33	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 00:33	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 00:33	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 00:33	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 00:33	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 00:33	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 00:33	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 00:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 00:33	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 00:33	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 00:33	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*48 - 120*	*11/30/20 09:11*	*12/02/20 00:33*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*11/30/20 09:11*	*12/02/20 00:33*	*1*
p-Terphenyl-d14 (Surr)	*90*		*60 - 148*	*11/30/20 09:11*	*12/02/20 00:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0073**	**J**	0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 20:10	1

Client Sample ID: MW-01-17-D
Lab Sample ID: 480-178688-5
Date Collected: 11/24/20 10:26
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 16:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 16:51	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 16:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 16:51	1

Client Sample ID: MW-01-17-D
Lab Sample ID: 480-178688-5
Date Collected: 11/24/20 10:26
Matrix: Water
Date Received: 11/25/20 12:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*11/28/20 16:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/28/20 16:51*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*11/28/20 16:51*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/28/20 16:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 01:01	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 01:01	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 01:01	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 01:01	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 01:01	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 01:01	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 01:01	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:01	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 01:01	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 01:01	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*11/30/20 09:11*	*12/02/20 01:01*	*1*
Nitrobenzene-d5 (Surr)	*88*		*46 - 120*	*11/30/20 09:11*	*12/02/20 01:01*	*1*
p-Terphenyl-d14 (Surr)	*88*		*60 - 148*	*11/30/20 09:11*	*12/02/20 01:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/03/20 20:30	12/04/20 18:16	1

Client Sample ID: DUP112320
Lab Sample ID: 480-178688-6
Date Collected: 11/23/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 17:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 17:16	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 17:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*11/28/20 17:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/28/20 17:16*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*11/28/20 17:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/28/20 17:16*	*1*

Client Sample ID: DUP112320
Lab Sample ID: 480-178688-6
Date Collected: 11/23/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 01:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 01:30	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 01:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 01:30	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 01:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 01:30	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 01:30	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:30	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 01:30	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 01:30	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*48 - 120*	*11/30/20 09:11*	*12/02/20 01:30*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 120*	*11/30/20 09:11*	*12/02/20 01:30*	*1*
p-Terphenyl-d14 (Surr)	*93*		*60 - 148*	*11/30/20 09:11*	*12/02/20 01:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0089**	**J F1**	0.010	0.0050	mg/L		12/03/20 20:39	12/04/20 20:12	1

Client Sample ID: EB112420
Lab Sample ID: 480-178688-7
Date Collected: 11/24/20 09:23
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 17:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 17:41	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 17:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*11/28/20 17:41*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*11/28/20 17:41*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*11/28/20 17:41*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/28/20 17:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 01:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 01:58	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:58	1

Client Sample ID: EB112420
Lab Sample ID: 480-178688-7

Date Collected: 11/24/20 09:23
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 01:58	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 01:58	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 01:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 01:58	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 01:58	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 01:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 01:58	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 01:58	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 01:58	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*48 - 120*	*11/30/20 09:11*	*12/02/20 01:58*	*1*
Nitrobenzene-d5 (Surr)	*100*		*46 - 120*	*11/30/20 09:11*	*12/02/20 01:58*	*1*
p-Terphenyl-d14 (Surr)	*112*		*60 - 148*	*11/30/20 09:11*	*12/02/20 01:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1	0.010	0.0050	mg/L		12/03/20 20:30	12/04/20 18:19	1

Client Sample ID: NMW-01
Lab Sample ID: 480-178688-8

Date Collected: 11/24/20 12:57
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**160**		4.0	1.6	ug/L			11/28/20 18:06	4
Ethylbenzene	**3.4**	**J**	4.0	3.0	ug/L			11/28/20 18:06	4
Toluene	ND		4.0	2.0	ug/L			11/28/20 18:06	4
Xylenes, Total	**13**		8.0	2.6	ug/L			11/28/20 18:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*11/28/20 18:06*	*4*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/28/20 18:06*	*4*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/28/20 18:06*	*4*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/28/20 18:06*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**85**		25	2.1	ug/L		11/30/20 09:11	12/02/20 02:27	5
Acenaphthylene	ND		25	1.9	ug/L		11/30/20 09:11	12/02/20 02:27	5
Anthracene	ND		25	1.4	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[a]anthracene	ND		25	1.8	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[a]pyrene	ND		25	2.4	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		11/30/20 09:11	12/02/20 02:27	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		11/30/20 09:11	12/02/20 02:27	5
Chrysene	ND		25	1.7	ug/L		11/30/20 09:11	12/02/20 02:27	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/30/20 09:11	12/02/20 02:27	5
Fluoranthene	ND		25	2.0	ug/L		11/30/20 09:11	12/02/20 02:27	5
Fluorene	**20**	**J**	25	1.8	ug/L		11/30/20 09:11	12/02/20 02:27	5

Client Sample ID: NMW-01
Lab Sample ID: 480-178688-8

Date Collected: 11/24/20 12:57
Matrix: Water
Date Received: 11/25/20 12:00

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		25	2.4	ug/L		11/30/20 09:11	12/02/20 02:27	5
Naphthalene	**11**	**J**	25	3.8	ug/L		11/30/20 09:11	12/02/20 02:27	5
Phenanthrene	**3.3**	**J**	25	2.2	ug/L		11/30/20 09:11	12/02/20 02:27	5
Pyrene	**1.8**	**J**	25	1.7	ug/L		11/30/20 09:11	12/02/20 02:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*48 - 120*	*11/30/20 09:11*	*12/02/20 02:27*	*5*
Nitrobenzene-d5 (Surr)	*74*		*46 - 120*	*11/30/20 09:11*	*12/02/20 02:27*	*5*
p-Terphenyl-d14 (Surr)	*70*		*60 - 148*	*11/30/20 09:11*	*12/02/20 02:27*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010 UB ~~0.0084 J B~~ *		0.010	0.0050	mg/L		12/07/20 17:26	12/08/20 16:39	1

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9

Date Collected: 11/24/20 12:24
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 18:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 18:30	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 18:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*11/28/20 18:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*11/28/20 18:30*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/28/20 18:30*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/28/20 18:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/30/20 09:11	12/02/20 02:55	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/30/20 09:11	12/02/20 02:55	1
Anthracene	ND		5.0	0.28	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		11/30/20 09:11	12/02/20 02:55	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		11/30/20 09:11	12/02/20 02:55	1
Chrysene	ND		5.0	0.33	ug/L		11/30/20 09:11	12/02/20 02:55	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/30/20 09:11	12/02/20 02:55	1
Fluoranthene	ND		5.0	0.40	ug/L		11/30/20 09:11	12/02/20 02:55	1
Fluorene	ND		5.0	0.36	ug/L		11/30/20 09:11	12/02/20 02:55	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		11/30/20 09:11	12/02/20 02:55	1
Naphthalene	ND		5.0	0.76	ug/L		11/30/20 09:11	12/02/20 02:55	1
Phenanthrene	ND		5.0	0.44	ug/L		11/30/20 09:11	12/02/20 02:55	1
Pyrene	ND		5.0	0.34	ug/L		11/30/20 09:11	12/02/20 02:55	1

Client Sample ID: MW-01-07-R
Lab Sample ID: 480-178688-9

Date Collected: 11/24/20 12:24
Matrix: Water
Date Received: 11/25/20 12:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*48 - 120*	*11/30/20 09:11*	*12/02/20 02:55*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 120*	*11/30/20 09:11*	*12/02/20 02:55*	*1*
p-Terphenyl-d14 (Surr)	*95*		*60 - 148*	*11/30/20 09:11*	*12/02/20 02:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/07/20 17:26	12/08/20 16:10	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-178688-10

Date Collected: 11/24/20 00:00
Matrix: Water
Date Received: 11/25/20 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/28/20 18:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/28/20 18:55	1
Toluene	ND		1.0	0.51	ug/L			11/28/20 18:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/28/20 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*11/28/20 18:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*11/28/20 18:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*11/28/20 18:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/28/20 18:55*	*1*

Attachment 5

Site Inspection Form

Binghamton (Court Street) Former MGP Site
Binghamton, Broome County, New York
Site-Wide Inspection Form

Date: 11/23/2020
Personnel: J. Bistrovich
Time of Arrival: 0900
Time of Departure: 1300

Weather Conditions: Cloudy
Temperature: 40°F
Wind Speed: 10 mph
Wind Direction (from): NW

Inspection Checklist	Yes	No	Comments
Cover System			
Intrusive Activities Being Performed?			
- Trenching?		X	
- Excavation?		X	
- Tunneling?		X	
- Saw cutting?		X	
Signs of Previous Intrusive Activities Performed?			
- New drainage feature?		X	
- Evidence of a new underground utility?		X	
- New grass/vegetation/asphalt?		X	
- Other (e.g., cracking, potholes, depressions)	X		Small area of asphalt surface, most is gravel surface with some potholes and water ponding in areas.
Monitoring Well Condition			
Groundwater monitoring needs to be performed this year?	X		
Covers secure?		X	PZ-03-02A, D cover missing. Most covers/vault lids in place but many are damaged.
Casing in need of repair?	X		MW-97-14-D PVC broken; most other casings are generally in good shape some damaged/broken J-plugs.
Concrete surface seal intact?	X		Surface seals where used are generally intact, some vaults/curb boxes have settled or are damaged.
Settling in area around well?	X		Some vaults/curb boxes have settled or been damaged.
Well obstructed?	X		Several PZ wells in Court St. have been paved over. 4 RWs are missing or been buried under gravel.
Ponded water above well?	X		Some ponding of water near MW-93-05D, PZ-93-1
Well screen silted in?	X		MW-01-17-S silted in, unable to sample.
Well in need of redevelopment?	X		MW-01-17-S, PZ-03-02A, PZ-03-02D in need of redevelopment.

General Comments/Suggested Action Items: Several wells/piezometers buried under gravel/asphalt and unable to locate, many vaults/curb boxes are damaged or have settled and need repair.