Second Quarter 2021
Groundwater Monitoring Report
Patchogue Former MGP Site
NYSDEC Site No. 1-52-182
Village of Patchogue, Suffolk County, New York

Prepared for

National Grid USA, Hicksville, New York

August 31, 2021

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National Grid USA
175 East Old Country Road
Hicksville, New York 11801

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Brown and Caldwell Associates
500 North Franklin Turnpike, Suite 306
Ramsey, New Jersey 07446

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List of Abbreviations

BC	Brown and Caldwell Associates
BTEX	Benzene, Toluene, Ethylbenzene and Isomers of Xylene
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
FER	Final Engineering Report
ISS	In-Situ Solidification
Lancaster	Eurofins Lancaster Laboratories Environmental
MGP	Manufactured Gas Plant
MS/MSD	Matrix Spike/Matrix Spike Duplicate
MTBE	Methyl tertiary-butyl ether
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York State Code of Rules and Regulations
NYSDEC	New York Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	Polycyclic Aromatic Hydrocarbons
QA/QC	Quality Assurance/Quality Control
SIM	Selective Ion Monitoring
Site	Patchogue Former MGP Site
TOGS	Technical and Operational Guidance Series
USEPA	United States Environmental Protection Agency

Section 1

Introduction

This Groundwater Monitoring Report documents the implementation and summarizes the results of the groundwater monitoring activities conducted during the second quarter of 2021 at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). This monitoring event is the sixth to be conducted after completion of remedy implementation in the fourth quarter 2019. The groundwater monitoring activities included the performance of water level measurements, non-aqueous phase liquid (NAPL) gauging and groundwater sampling activities.

The groundwater monitoring event and the preparation of this report are part of the long-term groundwater monitoring program being conducted at the Site in accordance with the "100% Remedial Design Report" (Brown and Caldwell Associates (BC), May 2019) as modified by subsequent email correspondence (during the period from January 7 to 16, 2020) between National Grid and the New York State Department of Environmental Conservation (NYSDEC). Remedial construction activities (including restoration) were completed in Summer 2020. This report has been prepared for submittal to the NYSDEC and includes the following:

- Description of the scope of the field activities, methods, and procedures
- Table summarizing the results of the water level measurements and the gauging for the presence of NAPL in the monitoring wells (Table 1)
- Table summarizing the analytical results for the groundwater samples obtained during the second quarter 2021 monitoring event including a comparison to the applicable groundwater quality criteria (Table 2)
- Comparison of data from this monitoring period to data from historical monitoring events (Tables 3 and 4)
- Discussion of the results and findings from the groundwater monitoring data
- A water table elevation contour map depicting the generalized direction of groundwater flow based on groundwater elevation data obtained from monitoring wells (Figure 1)
- Field Sampling Data Sheets (Appendix A)
- Laboratory Data Report (Appendix B)
- Data Validator Qualifications (Appendix C)
- Data Usability Summary Report (DUSR) (Appendix D)
- Evaluation of Potential Impact to River from Site Constituents in Groundwater – March, June, September, and December 2020 Data (Appendix E)
- Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data (Appendix F)

1.1 Background

This report presents the results and findings associated with the June 2021 groundwater monitoring event, which is the sixth such event conducted following implementation of the Site remedy. Groundwater conditions prior to remedy implementation are documented and discussed in previous groundwater monitoring reports dating back to 2009 and in the "Final Remedial Investigation Report for

the Patchogue Former MGP Site" (Tetra Tech EC, Inc., December 2009). Remedial construction activities, which included in-situ solidification (ISS) of MGP-related source materials and associated soils, were performed during the period from June through December 2019. Final Site restoration efforts were completed in the Summer of 2020. At the end of 2018, groundwater monitoring was suspended to allow for remedial construction activities. Several monitoring wells and piezometers were decommissioned prior to remedial construction activities to facilitate remedy implementation. These wells included MW-5, MW-6, MW-9S, MW-9D, and PZ-1A through PZ-4A. Each well/piezometer was decommissioned in accordance with NYSDEC's guidance document "CP-43: Groundwater Monitoring Well Decommissioning Policy". A description of the decommissioning activities, as well as field inspection logs and well decommissioning records will be provided under separate cover in the Final Engineering Report (FER).

Prior to resumption of groundwater monitoring following remedial construction activities, five monitoring well couplets (MW-10S/D through MW-14S/D) were installed in January 2020 to facilitate performance of a long-term groundwater monitoring program at the Site. These additions to the well network were installed in accordance with the "100% Remedial Design Report" (BC, May 2019) and as modified by subsequent email correspondence (during the period from January 7 to 16, 2020) between National Grid and the NYSDEC. These wells are supplemental to existing wells MW-1, MW-3, and well couplets MW-4S/D, MW-7S/D and MW-8S/D, which serve as site perimeter monitoring locations. The well couplets installed in January 2020 were selected to provide additional well coverage for post-remediation groundwater quality monitoring at locations positioned around the ISS mass, and at locations between the ISS mass and the Patchogue River. The screens of the monitoring wells provide coverage across the vertical extent of the ISS mass. A description of the well installation activities and monitoring well construction logs for the well couplets installed in January 2020 couplets were provided in the FER.

Groundwater monitoring prior to remedy implementation was conducted on a semi-annual basis; however, the sampling frequency was temporarily increased to quarterly to evaluate the effectiveness of the remedy for Calendar Years 2020 and 2021.

Section 2

Scope of Work

Field activities for the second quarter 2021 groundwater monitoring were conducted by BC from June 22 through June 24, 2021. The activities conducted during this monitoring event are described below. Locations of the monitoring wells and staff gauge referenced below are depicted on Figure 1.

Prior to groundwater sampling, water level measurements and NAPL gauging was performed in the monitoring wells associated with the Site. The level of the Patchogue River was measured during the June 2021 sampling event from surface water elevation control point SG-1. Water level measurements and NAPL gauging were conducted using an electronic oil/water interface probe; measurements were made to the nearest 0.01 foot.

Groundwater sampling was conducted at 18 monitoring wells (MW-1, MW-3, well couplets MW-4S/D, MW-7S/D and MW-8S/D; and well couplets MW-10S/D through MW-14S/D) following the water level and NAPL gauging activities using low flow purging and sampling techniques in accordance with the United States Environmental Protection Agency (USEPA) protocol (USEPA, July 1996, Revised September 2017). Samples were submitted to Eurofins Lancaster Laboratories Environmental (Lancaster) located in Lancaster, Pennsylvania. Lancaster is certified (Certification No. 10670) through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

The groundwater samples were analyzed for: benzene, toluene, ethylbenzene, and isomers of xylene (BTEX) compounds and methyl tertiary-butyl ether (MTBE) using USEPA SW-846 Method 8260C, and polycyclic aromatic hydrocarbons (PAHs) using USEPA SW-846 Method 8270D. The selective ion monitoring (SIM) component of the 8270 analysis was also performed on the samples to obtain lower detection limits for certain PAH compounds. The groundwater samples were also analyzed in the field for pH, specific conductivity, temperature, turbidity, oxidation-reduction potential, and dissolved oxygen (see Appendix A for field data sheets).

The laboratory report from Lancaster is provided in Appendix B. Laboratory analytical data were provided to BC in electronic form by Lancaster and have been incorporated into the environmental database maintained by BC for the Site.

In addition to the samples described above, quality assurance/quality control (QA/QC) samples were also collected. The QA/QC samples included: trip blanks (one per cooler containing samples for BTEX and MTBE analysis), a field duplicate, and an equipment blank. Also, extra sample volume was collected from one location to provide for matrix spike/matrix spike duplicate (MS/MSD) analysis. The trip blank sample was analyzed for BTEX and MTBE only. The other QA/QC samples were analyzed for BTEX, MTBE, and PAHs.

The groundwater analytical data packages were validated by Jaclyn Lauer of BC. Ms. Lauer's qualifications and experience as a data validator are included in Appendix C. A DUSR was prepared for the groundwater data packages (see Appendix D). Overall, the analytical data for the groundwater monitoring were determined to be usable for the intended purposes and none of the data was rejected. As noted in the DUSR, some data was qualified as follows:

- The method blank had detections of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene in one or multiple analysis batches. Sample non-detections are not qualified. Associated sample detections less than five times the blank detection are qualified as estimated with limited detection, UJ, the MDL is raised to the sample concentration, and the reporting limit is raised to five times the blank detection.
- The field blank had a detection of pyrene. Sample non-detections and the detections greater than five times the blank detection are not qualified. Associated sample detections less than five times the blank detection are qualified as estimated with limited detection, UJ, the MDL is raised to the sample concentration, and the reporting limit is raised to five times the blank detection.
- Sample MW-13S-20210624 (from well MW-13S) was diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits are provided for the 8260C analysis.

Section 3

Results and Findings

3.1 Water Level Data

Table 1 provides the water level data and calculated water elevations from the June 22, 2021 measurements. Figure 1 illustrates the elevation contours of the water table based on these data. The contours were developed using water level elevation data from the shallow monitoring wells (i.e., those with screens that straddle, or are just below, the water table) considered representative of the water table, and the staff gauges in the Patchogue River. The groundwater elevation (hydraulic head) values for the wells screened in deeper intervals are also posted for reference on Figure 1. The water table is relatively shallow and is typically positioned in the fill that overlies the native alluvial deposits and outwash deposits and that overlies the ISS mass. The water table contours indicate that lateral groundwater flow is from the northwest to the south and southeast across the Site toward the Patchogue River.

3.2 NAPL Gauging

Table 1 presents the results of the NAPL gauging conducted in the monitoring wells associated with the Site during the June 2021 groundwater monitoring event. NAPL was not identified in any of the site monitoring wells during the June 22, 2021 gauging activities.

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the June 2021 monitoring event and a comparison of the data to the New York State Class GA groundwater quality criteria (i.e., New York State Codes, Rules and Regulations (NYCRR) Part 703 groundwater standards for Class GA water (groundwater) or, for constituents with no standard, the corresponding guidance value from Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1). Comparisons of total BTEX and total PAH concentrations from this sampling event to previous sampling events are provided as Tables 3 and 4, respectively.

Groundwater samples were collected from the 18 Site monitoring wells listed in Table 2 from June 22 to June 24, 2021 and submitted to the laboratory for analysis of BTEX, MTBE, and PAHs. Constituent concentrations were detected above Class GA groundwater quality criteria in the June 2021 samples at locations MW-3, MW-11S, and MW-13S for one or more of the following tested constituents: acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, chrysene, and naphthalene. Each of these locations are proximal to the ISS mass. The presence of these constituents in groundwater is an expected result of the disturbance of the subsurface during implementation of the ISS. Prior to remediation in the area downgradient of the MGP-related source materials, these constituents were either not detected or detected at concentrations below Class GA groundwater quality criteria in the wells that were in place prior to remedy implementation. Overall, the concentrations have decreased somewhat since post-remediation monitoring was initiated in March 2020 and are anticipated to further decrease with time and will be evaluated during subsequent monitoring events. As described above in Section 3.1, groundwater flow is from the northwest to the south and southeast across the Site toward the Patchogue River. The concentrations of some of the constituents that were detected and potentially mobile in the dissolved

phase (benzene and ethylbenzene) were below applicable surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact water quality the river. However, the concentration of one or more of the following seven constituents were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S): acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene. Although it was not anticipated that these constituent concentrations would impact surface water quality if they discharged to the river, a mass flux analysis was previously conducted (provided in Appendix E) to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. Based on the analysis, it was determined that the estimated concentrations of acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene in the river were below applicable surface water criteria. The evaluation was conducted by estimating the rate at which a mass of site-related constituents dissolved in groundwater may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). The details of these constituent mass flux analyses are presented in Appendix E; the results are summarized below.

The concentrations of acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene and pyrene in the June 2021 samples were similar (within the same order of magnitude) to those in the 2020 samples, yet the concentrations appear to be either stabilizing or trending downwards. Since the estimated surface water concentrations of these seven constituents were below applicable surface water criteria, based on the mass flux analyses using the 2020 data (see Appendix E), an additional estimation of concentrations of these constituents in the river is not necessary. Based on the evaluation conducted, Site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

PAH compounds were detected in samples collected from monitoring wells MW-10D and MW-14D at low concentrations (i.e., at or slightly above the laboratory method detection limit), but above the Class GA groundwater quality criteria, during the June 2021 monitoring event. The PAH compounds that were identified in the groundwater samples from these sampling locations at concentrations above the Class GA groundwater quality criteria include one or more of the following four compounds: benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. These PAH compounds have very low aqueous solubilities, are not readily mobile in groundwater, and are unlikely to have migrated from the on-Site source area. The criteria that were exceeded for these PAHs are unpromulgated guidance values rather than 6 NYCRR Part 703 standards. The detection of these constituents in the monitoring locations is likely related to the disturbance of fine or colloid sized particles during purging or sampling activities. These particles are derived from within the well or the soil adjacent to the well that become suspended into the water column of the well as a result of disturbance during purging and sampling activities.

MTBE was not detected at any of the 18 monitoring wells sampled during the June 2020 monitoring event. MTBE is not an MGP-related constituent but has been detected at times in the past as a result of off-site sources.

Another noteworthy groundwater quality observation gleaned from the June 2021 field parameter measurements (see Appendix A) includes an apparent decrease in pH levels in wells MW-3 and MW-13S from the levels observed in March/April 2021 at these locations. Specifically, pH levels in MW-3 decreased from 10.73 to 9.60; levels in MW-13S decreased slightly from 9.88 to 9.45. The pH levels in MW-3 prior to implementation of the remedy were considerably less than observed in December 2018 (6.9) and increased since remedy implementation (7.43 in March 2020, 9.02 in June 2020, 10.01 in

September 2020, 10.46 in December 2020 and 10.73 in March/April 2021). MW-13S was not installed until after completion of the remedy and thus, pre-remediation pH data is not available for this location. However, pH levels in MW-13S also increased during the post-remediation sampling events from 7.66 in March 2020, to 9.46 in June 2020, to 9.54 in September 2020, to 9.60 in December 2020, and to 9.88 in March/April. The increased pH levels are considered a potential effect from implementation of ISS in the area. Based on the June 2021 pH data, it appears the pH levels are beginning to decrease and are anticipated to continually decrease to pre-remedy levels with time (i.e., as ISS mass continues to fully cure). Although the increased pH levels in groundwater are not anticipated to impact surface water quality in the Patchogue River, similar to the evaluations conducted for certain PAHs dissolved in groundwater to potentially effect surface water quality, an analysis was previously conducted to evaluate the potential for the increased pH levels to effect surface water quality in the river. The details of this pH mass flux analysis are presented in Appendix F. Since the pH levels measured in MW-3 and MW-13S in June 2021 are similar to the levels measured in March/April 2021 and the estimated pH level in surface water (based on the December 2020 field measurements) was below applicable surface water criteria, an additional estimation of the pH level in the river is not necessary. Based on the evaluation conducted, the increased pH levels in shallow groundwater do not impact surface water quality in the Patchogue River.

Section 4

Summary and Conclusions

The following is a summary of the findings and conclusions associated with the June 2021 groundwater monitoring event.

- NAPL was not identified in any of the Site monitoring wells during the June 2021 gauging activities.
- Constituent concentrations above Class GA groundwater quality criteria were detected in the June 2021 samples at three shallow well locations proximal to the ISS mass (MW-3, MW-11S, and MW-13S). The exceedances in the wells were for one or more of the following constituents: acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene. The presence of these constituents is an expected result of the disturbance of the subsurface during implementation of the ISS. Overall, these concentrations have decreased somewhat since post-remediation monitoring was initiated in March 2020 and are anticipated to further decrease with time and will be evaluated during subsequent monitoring events.
- The concentrations of Site-related constituents detected in groundwater at the Site are not impacting surface water quality in the Patchogue River based on an evaluation of the mass flux of constituents in groundwater to the river.
- Increased pH levels in groundwater immediately downgradient of the ISS mass are considered a potential effect from implementation of ISS in the area. pH levels during the June 2021 sampling event were lower than during the previous sampling event in March 2021. It is anticipated that the pH will decrease to pre-remedy levels with time. The increased pH levels measured in groundwater at the Site are not impacting surface water quality in the Patchogue River based on a mass flux analysis.

Section 5

References

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Brown and Caldwell Associates, December 2012, Construction Completion Report Utility Corridor Work Plan Implementation, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

NYSDEC, CP-43: Groundwater Monitoring Well Decommissioning Policy, November 2009).

Tetra Tech EC, Inc, December 2009. Final Remedial Investigation Report for the Patchogue Former MGP Site, Patchogue, Suffolk County, New York.

USEPA, July 1996; Revised September 2017. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Tables

TABLE 1
WATER ELEVATIONS AND NAPL MONITORING DATA
SECOND QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

		6/22/2021			
Location ID	Top of Casing Elevation (ft., NAVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NAVD)	Depth to NAPL (ft., BTOC)	Total Depth of Well (ft., BTOC)
MW-1	11.47	5.71	5.76	NI	15.24
MW-3	5.56	1.64	3.92	NI	10.04
MW-4S	7.97	4.70	3.27	NI	12.43
MW-4D	7.79	4.47	3.32	NI	26.75
MW-7S	8.45	4.24	4.21	NI	12.40
MW-7D	8.31	4.11	4.20	NI	28.10
MW-8S	5.01	0.59	4.42	NI	9.85
MW-8D	4.99	0.55	4.44	NI	25.16
MW-10S	5.77	0.94	4.83	NI	15.45
MW-10D	5.73	0.92	4.81	NI	27.45
MW-11S	5.02	0.72	4.30	NI	13.70
MW-11D	5.14	0.82	4.32	NI	23.54
MW-12S	4.99	1.38	3.61	NI	13.95
MW-12D	4.92	1.25	3.67	NI	23.95
MW-13S	4.98	1.30	3.68	NI	13.30
MW-13D	4.96	1.27	3.69	NI	23.95
MW-14S	4.86	0.88	3.98	NI	12.66
MW-14D	4.82	0.85	3.97	NI	21.90
SG-1	5.38	3.27	2.11	--	NA
SG-2	5.25	NM	--	--	NA

Notes:
NAVD - North American Vertical Datum 1988
ft. - Feet
BTOC - Below Top of Casing
NA - Not Applicable
NI - NAPL not Indicated by Oil/Water Interface Probe
-- - Not measured
MW - monitoring well
SG - staff gauge

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID / Date	MW-1 6/22/2021	MW-3 6/24/2021	MW-3 (Dup) 6/24/2021	MW-4S 6/24/2021	MW-4D 6/24/2021	MW-7S 6/23/2021	MW-7D 6/23/2021	MW-8S 6/23/2021	MW-8D 6/23/2021	MW-10S 6/22/2021
Volatile Organic Compounds (VOCs)														
BTEX Compounds														
Benzene	NE	1	µg/L		0.30 U	0.60 J	0.55 J	0.70 J	0.30 U	0.34 J	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	NE	5	µg/L		0.20 U	0.88 J	0.90 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22 J
Ethylbenzene	NE	5	µg/L		0.40 U	2.8	2.7	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		0.40 U	4.1	4.1	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Total BTEX[a]	NE	NE	µg/L		ND	8.4 J	8.3 J	0.70 J	ND	0.34 J	ND	ND	ND	0.22 J
Other VOCs														
Methyl Tertiary Butyl Ether	10	NE	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.20 U
Semi-Volatile Organic Compounds (SVOCs)														
Polycyclic Aromatic Hydrocarbons (PAHs)														
Acenaphthene	20	NE	µg/L		0.010 U	**37**	**36**	**49**	0.010 U	0.10	0.010 U	0.20	0.010 U	0.011 U
Acenaphthylene	NE	NE	µg/L		0.010 U	4.1	4.3	0.60	0.010 U	0.012 J	0.010 U	0.010 U	0.010 U	0.011 U
Anthracene	50	NE	µg/L		0.010 U	1.1	1.20	0.48	0.010 U	0.044 J	0.010 U	0.010 U	0.010 U	0.011 U
Benzo(a)anthracene	0.002	NE	µg/L		0.010 U	**1.2**	**1.2**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.019 UJ
Benzo(a)pyrene	NE	0	µg/L		0.010 U	**0.024 J**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.023 UJ
Benzo(b)fluoranthene	0.002	NE	µg/L		0.010 U	**0.017 J**	**0.019 J**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.025 UJ
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.019 UJ
Benzo(k)fluoranthene	0.002	NE	µg/L		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.011 U
Chrysene	0.002	NE	µg/L		0.010 U	**0.74**	**0.71**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.016 UJ
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.020 U	0.030 J	0.021 U	0.021 U	0.021 U	0.021 U	0.020 U	0.028 UJ	0.021 U	0.022 U
Fluoranthene	50	NE	µg/L		0.010 U	13	12	4.5	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.016 J
Fluorene	50	NE	µg/L		0.010 U	5.9	6.6	8.8	0.010 U	0.025 J	0.010 U	0.010 U	0.010 U	0.011 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.020 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.020 U	0.021 U	0.021 U	0.022 U
Naphthalene	10	NE	µg/L		0.030 U	**91**	**91**	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.033 U
Phenanthrene	50	NE	µg/L		0.030 U	6.5	6.0	0.21	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.033 U
Pyrene	50	NE	µg/L		0.010 U	16	15	4.5	0.016 UJ	0.010 U	0.012 UJ	0.010 U	0.010 U	0.020 UJ
Total PAHs[b]	NE	NE	µg/L		ND	177	174 J	68.1	ND	0.18 J	ND	0.20	ND	0.016 J

Notes:
BTEX - benzene, toluene, ethylbenzene and isomers of xylene.
TOGS - Technical and Operational Guidance Series
U - The analyte was analyzed for, but was not detected above the sample reporting limit. Value shown is representative of method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the reporting limit but above the method detection limit.
µg/L - micrograms per liter
ND - Not detected.
NE - Not established.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - To calculate total PAH concentration, a value of zero is used for non-detect values.

Boxed concentrations in bold font are above New York State Class GA Groundwater Quality Criteria (Standards or Guidance values).

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID / Date	MW-10D 6/22/2021	MW-11S 6/23/2021	MW-11D 6/23/2021	MW-12S 6/23/2021	MW-12D 6/23/2021	MW-13S 6/24/2021	MW-13D 6/24/2021	MW-14S 6/23/2021	MW-14D 6/23/2021
Volatile Organic Compounds (VOCs)													
BTEX Compounds													
Benzene	NE	1	µg/L		0.30 U	1.0 J	0.30 U	0.30 U	0.30 U	1.5 U	0.30 U	0.30 U	0.30 U
Toluene	NE	5	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	NE	5	µg/L		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	3.0 J	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		0.40 U	0.61 J	0.40 U	0.40 U	0.40 U	2.3 J	0.40 U	0.40 U	0.40 U
Total BTEX[(a)]	NE	NE	µg/L		ND	1.6 J	ND	ND	ND	5.3 J	ND	ND	ND
Other VOCs													
Methyl Tertiary Butyl Ether	10	NE	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.010 U	**44**	0.010 U	0.010 U	0.011 U	**58**	0.010 U	0.03 J	0.010 U
Acenaphthylene	NE	NE	µg/L		0.010 U	0.82	0.010 U	0.010 U	0.011 U	1.7	0.010 U	0.014 J	0.010 U
Anthracene	50	NE	µg/L		0.010 U	3.5	0.010 U	0.010 U	0.011 U	8.7	0.010 U	0.015 J	0.010 U
Benzo(a)anthracene	0.002	NE	µg/L		0.018 UJ	**0.46**	**0.015 J**	0.010 U	0.011 U	**1.4**	0.010 U	0.010 U	**0.010 J**
Benzo(a)pyrene	NE	0	µg/L		0.021 UJ	**0.150**	**0.016 J**	0.010 U	0.011 U	**0.091**	0.010 U	0.010 U	0.010 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.026 UJ	**0.140**	**0.024 J**	0.010 U	0.011 U	**0.098**	0.010 U	0.010 U	**0.014 J**
Benzo(g,h,i)perylene	NE	NE	µg/L		0.021 UJ	0.051 J	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.011 UJ	**0.052**	0.010 U	0.010 U	0.011 U	**0.032 J**	0.010 U	0.010 U	0.010 U
Chrysene	0.002	NE	µg/L		0.020 UJ	**0.34**	**0.017 J**	0.010 U	0.011 U	**1.10**	0.010 U	0.010 U	**0.011 J**
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.021 U	0.021 U	0.020 U	0.021 U	0.021 U	0.020 U	0.020 U	0.021 U	0.021 U
Fluoranthene	50	NE	µg/L		0.013 J	4.1	0.030 J	0.010 U	0.011 U	8.1	0.011 J	0.010 U	0.012 J
Fluorene	50	NE	µg/L		0.010 U	8.2	0.010 U	0.010 U	0.011 U	23.0	0.010 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		**0.023 J**	**0.058**	0.020 U	0.021 U	0.021 U	0.020 U	0.020 U	0.021 U	0.021 U
Naphthalene	10	NE	µg/L		0.031 U	3.0	0.030 U	0.031 U	0.032 U	**130**	0.031 J	0.031 U	0.031 U
Phenanthrene	50	NE	µg/L		0.031 U	10	0.044 J	0.031 U	0.032 U	44	0.031 U	0.031 U	0.031 U
Pyrene	50	NE	µg/L		0.024 UJ	4.8	0.031 UJ	0.014 UJ	0.011 U	7.9	0.014 UJ	0.021 UJ	0.019 UJ
Total PAHs[(b)]	NE	NE	µg/L		0.036 J	79 J	0.15	ND	ND	284 J	0.042 J	0.055 J	0.047 J

Notes:
BTEX - benzene, toluene, ethylbenzene and isomers of xylene.
TOGS - Technical and Operational Guidance Series
U - The analyte was analyzed for, but was not detected above the sample reporting limit. Value shown is representative of method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the reporting limit but above the method detection limit.
µg/L - micrograms per liter
ND - Not detected.
NE - Not established.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - To calculate total PAH concentration, a value of zero is used for non-detect values.

Boxed concentrations in bold font are above New York State Class GA Groundwater Quality Criteria (Standards or Guidance values).

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L) [a]													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-08	0	0	0	0	3.4	0	1016	57	NS	NS	NS	NS	NS	NS
Jul-08	NS	0	0	0	0	0	678	0	0	0	0	0	0	0
Mar-09	0	0	0	0	0	0	975	0	0	1	0	0	0	0
Sep-09	0	0	0	0	0	0	1257	1	0	0	0	0	0	0
Mar-10	0	0	0	0	0	0	637	2	0	9	0	0	0	0
Sep-10	0	0	0	0	0	0	NS	0	0	0	0	0	27	0
Jan-11	1.7	0	0	0	0	0	NS	NS	0	0	0	0	1	0
Apr-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Aug-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Nov-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Feb-12	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
May-12	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Nov-12	0	-- [b]	-- [a]	0	12	0	NS	NS	1	0	0	0	NS	NS
Jun-13	0	-- [b]	-- [b]	0	0.8	0	NS	NS	0.7	0	0	0	0	NS
Dec-13	0	-- [b]	-- [b]	NS	0	0	NS	NS	0.8	0	0	0	NS	NS
Jun-14	0	-- [b]	-- [b]	0	0	0	NS	NS	0.8	0	0	0	NS	NS
Dec-14	0	-- [b]	-- [b]	0	0	0	NS	NS	1.3	0	0	0	0	0
Jun-15	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Dec-15	0	-- [b]	-- [b]	0	0	0	NS	NS	0.5	0	0	0	0	0
Jun-16	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Dec-16	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Jun-17	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Dec-17	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Jun-18	0	-- [b]	-- [b]	0	0	0	NS	0	0	0	0	0	0	0
Dec-18	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Mar-20	0	-- [b]	-- [b]	35	4.3	0	-- [c]	-- [c]	0.4	0	0	0	-- [c]	-- [c]
Jun-20	0	-- [b]	-- [b]	18	2	0	-- [c]	-- [c]	0	0	0	0	-- [c]	-- [c]
Sep-20	0	-- [b]	-- [b]	20	2	0	-- [c]	-- [c]	0.4	0	0	0	-- [c]	-- [c]
Dec-20	0	-- [b]	-- [b]	19	1	0	-- [c]	-- [c]	0	0	0	0	-- [c]	-- [c]
Mar-21	0	-- [b]	-- [b]	10.2	0.6	0	-- [c]	-- [c]	0.3	0	0	0	-- [c]	-- [c]
Jun-21	0	-- [b]	-- [b]	8.4	0.7	0	-- [c]	-- [c]	0.34	0	0	0	-- [c]	-- [c]
Minimum	0	0	0	0	0	0	637	0	0	0	0	0	0	0
Maximum	1.7	0	0	35	12	0	1257	57	1.3	9.0	0	0	27	0
Mean	0.1	0	0	3.7	0.9	0	913	8.6	0.22	0.3	0	0	1.3	0

Notes:
BTEX - Benzene, toluene, ethylbenzene and isomers of xylene
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (BC, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L) [a]										
	Monitoring Well/Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jan-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
May-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Dec-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0
Dec-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Mar-20	0	0	4	0	0	0	37	0	0	0	-- [c]
Jun-20	0	0	2.7	0	0	0	25	0	0.73	0	-- [c]
Sep-20	0	0	1.9	0	0	0	26	0	0	0	-- [c]
Dec-20	0	0	0	0	0	0	6.9	0	0	0	-- [c]
Mar-21	0	0	1.3	0	0	0	4	0	0	0	-- [c]
Jun-21	0.22	0	1.6	0	0	0	5.3	0	0	0	-- [c]
Minimum	0	0	0	0	0	0	4	0	0	0	0
Maximum	0.22	0	4.0	0	0	0	37	0	0.73	0	0
Mean	0.04	0	1.9	0	0	0	17	0	0.1	0	0

Notes:
BTEX - Benzene, toluene, ethylbenzene and isomers of xylene
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (BC, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L) [a]													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-08	0	0	0	0.76	0.6	4.3	1774	214	NS	NS	NS	NS	NS	NS
Jul-08	NS	0.7	0	0	8	0	1799	154	0	0.47	0	0	12	0
Mar-09	0	0	0	0	0	0	2730	0	0	0	0	0	0	0
Sep-09	0	0	0	0	0	0	3373	1	0	0	0	0	0	0
Mar-10	0	0	0	0	0	39	2390	17	0	0	22	0	2	0
Sep-10	0	0	0	128	0	6	NS	14	0	0	11	0	396	0
Jan-11	22	0	0	17	0	12	NS	NS	0	0	6	0	42	5
Apr-11	0	0	0	6	0	20	NS	NS	0	0	0	0	9	0
Aug-11	0	0	0.1	14	0.1	0	NS	NS	0	0	0.4	0	16	1.2
Nov-11	0	0	0.2	10	0.4	0	NS	NS	0	0	0.8	0.2	8	3.4
Feb-12	0.2	0	0	6	0.6	4	NS	NS	0.1	0	0.6	0	5	2.9
May-12	0.4	0.1	0.6	5	0	5.8	NS	NS	0.1	0.3	1	0	6	2.8
Nov-12	0.1	-- [b]	-- [b]	5.6	0.4	11.7	NS	NS	2.5	2.6	0.8	1.2	NS	NS
Jun-13	0.8	-- [b]	-- [b]	NS	0.3	3.7	NS	NS	1.3	0.4	0.4	0.6	2	NS
Dec-13	0	-- [b]	-- [b]	NS	0	2.5	NS	NS	0.8	0.4	0.3	0	NS	NS
Jun-14	0	-- [b]	-- [b]	2.2	0.9	0	NS	NS	0.8	0.3	0.2	0	NS	NS
Dec-14	0.1	-- [b]	-- [b]	1.2	0.4	0	NS	NS	3	0	0.1	0	21	0.3
Jun-15	0	-- [b]	-- [b]	1.1	0.9	0	NS	NS	0.9	0	0.3	0	10	0.3
Dec-15	0	-- [b]	-- [b]	0	0	0	NS	NS	0.9	0	0	0	3.9	0
Jun-16	0	-- [b]	-- [b]	1.9	0.8	0	NS	NS	2.5	0	0	0	5.9	0
Dec-16	0	-- [b]	-- [b]	0.02	0	0.1	NS	NS	0	0	0	0	5.5	0.07
Jun-17	0	-- [b]	-- [b]	2.0	0.5	0	NS	NS	1	0	0	0	3.2	0
Dec-17	0	-- [b]	-- [b]	0.53	0	0.031	NS	NS	0	0.11	0	0.017	6.0	0.14
Jun-18	0	-- [b]	-- [b]	3.1	1.1	0.010	NS	53	0.02	0.01	0.08	0.09	7.4	0.55
Dec-18	0.31	-- [b]	-- [b]	1.5	1.2	0.080	NS	NS	0.08	0.05	0.10	0.13	7.9	1.0
Mar-20	0	-- [b]	-- [b]	20	17	0.21	-- [c]	-- [c]	0.32	0	0.09	0	-- [c]	-- [c]
Jun-20	0	-- [b]	-- [b]	179	37	0	-- [c]	-- [c]	0.14	0	0.11	0	-- [c]	-- [c]
Sep-20	0	-- [b]	-- [b]	336	41	0	-- [c]	-- [c]	0	0	0.21	0	-- [c]	-- [c]
Dec-20	0	-- [b]	-- [b]	333	33	0	-- [c]	-- [c]	0	0	0.14	0	-- [c]	-- [c]
Mar-21	0	-- [b]	-- [b]	172	24.2	0	-- [c]	-- [c]	0.26	0	0.11	0.043	-- [c]	-- [c]
Jun-21	0	-- [b]	-- [b]	177	68.1	0	-- [c]	-- [c]	0.18	0	0.20	0	-- [c]	-- [c]
Min	0	0	0	0	0	0	1774	0	0	0	0	0	0	0
Max	22	0.7	0.6	336	68	39	3373	214	3.0	2.6	22	1.2	396	5
Mean	0.8	0	0.1	49	8	3.5	2413	65	0.50	0.15	1.5	0.076	27	0.88

Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring Well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (Brown and Caldwell, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L) [a]										
	Monitoring Well/ Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jan-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
May-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Dec-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.3
Dec-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Mar-20	0.3	0.3	96	1.5	14	0	188	0.1	0.5	0.04	-- [c]
Jun-20	0	0	63	0	0	0	394	0.11	1.8	0	-- [c]
Sep-20	0	0	127	0	0	0	467	0	0.12	0	-- [c]
Dec-20	0	0	6.8	0	0.17	0	182	0	1.7	0	-- [c]
Mar-21	0	0	78	0	0.012	0	187	0.037	1.0	0	-- [c]
Jun-21	0.016	0.036	79	0.15	0	0	284	0.042	0.1	0.047	-- [c]
Min	0	0	6.8	0	0	0	182	0	0.055	0	0.3
Max	0.3	0.3	127	1.5	14	0	467	0.11	1.8	0.047	0.3
Mean	0.053	0.056	75	0.28	2.3	0	284	0.048	0.79	0.015	0.3

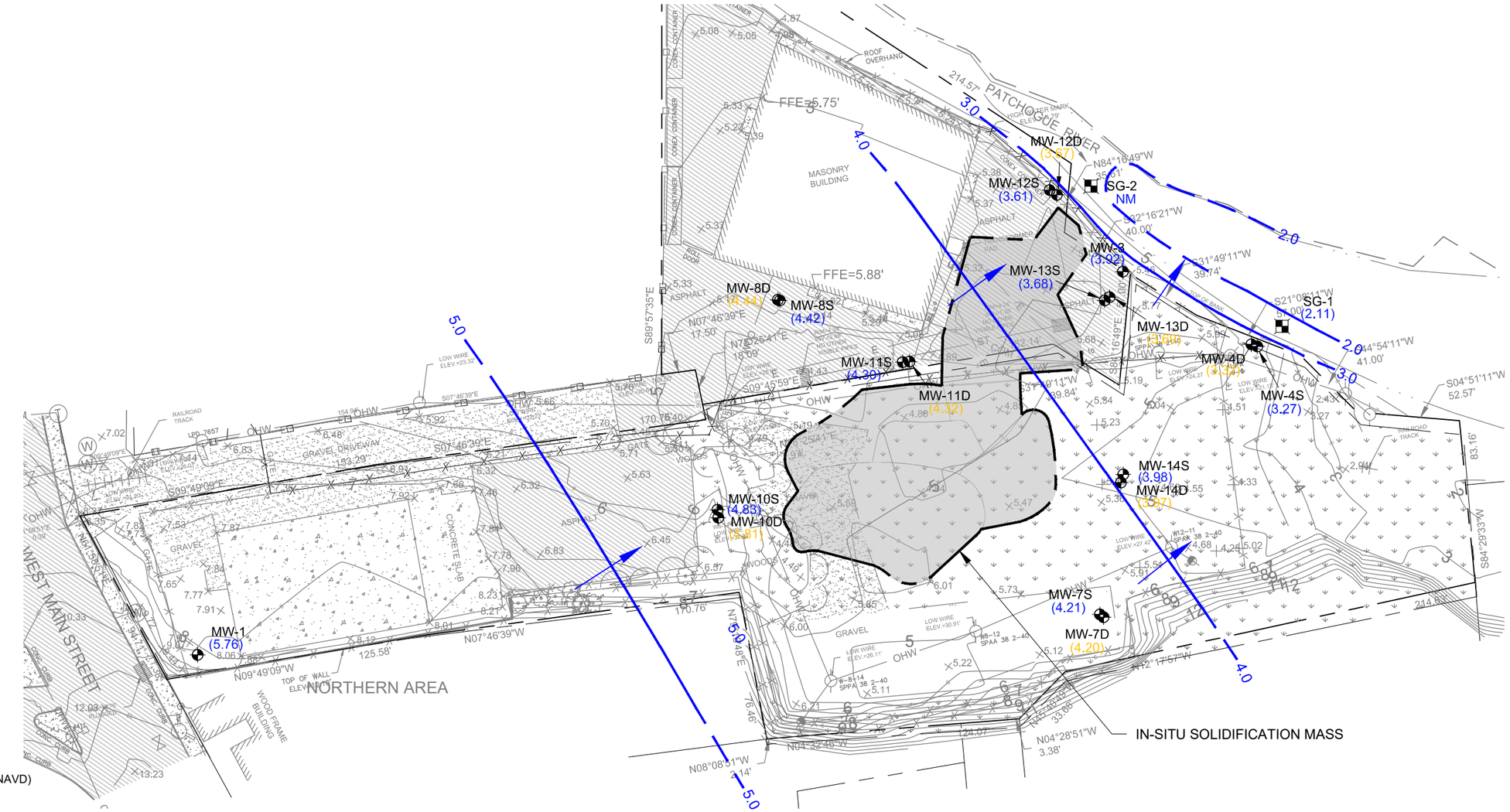
Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (Brown and Caldwell, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).

Figures

Path: \\bcusrfp01\projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(June_22_2021) Plot Date: August 4, 2021 3:23 PM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAUGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.71) — GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.90) — GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- NM — NOT MEASURED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: August 4, 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
JUNE 22, 2021

FIGURE

1

Appendix A: Field Sampling Data Sheets

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV/MHM
Purge/Sample Depth: ~12.5'

Project Number: 153021
Date: 06/22/21
Well ID: MW-1
Sample ID: MW-1-20210622

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1059	5.78	24.59	2.58	2.94	3.2	46	5.85	200	
1102	6.02	23.09	2.73	1.43	2.7	-5	5.85		
1105	6.29	23.03	2.93	0.99	4.4	-28	5.85		
1108	6.32	23.20	2.98	0.95	4.1	-32	5.85		
1111	6.36	22.42	3.20	1.01	5.1	-37	5.85		
1114	6.39	21.08	3.48	0.99	4.8	-40	5.85		
1117	6.43	19.98	3.67	0.93	4.2	-43	5.85		
1120	6.47	19.62	3.71	0.88	3.1	-47	5.85		
1123	6.47	19.59	3.71	0.86	3.1	-46	5.85		
1126	6.48	19.53	3.71	0.84	2.9	-46	5.85		
1129	6.48	19.51	3.71	0.84	3.3	-45	5.85		
1132	Collect MW-1-20210622								

AFV
06/22/21

Certified Sample Information:
Time of Sample: 1132

Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPQRL RY
Calibration Date/Time: 06/22/21

Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-1
Sample I.D.: MW-1-20210622 (if different from well no.)

Project: Patchogue
Personnel: AFV/MHM

Date: 06/22/21 Time: 1059
Weather: Sunny Air Temp.: 81°F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 5.71 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☒ Yes ☐ No ☐ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200mL/min Elapsed Time: 30min Volume Pumped: 2gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☒ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☒ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/22/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name:	Patchogue	Project Number:	15302
Client:	BL	Date:	06/22/21
Personnel:	AFV/MHM	Well ID:	MW-105
Purge/Sample Depth:	~12'	Sample ID:	MW-105-20210622

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
12:52	6.53	19.76	0.544	4.13	90.6	-2	0.99	200	
12:55	6.40	17.64	0.511	1.83	80.3	-36	0.99		
12:58	6.38	16.47	0.504	1.71	61.7	-52	0.99		
13:01	6.41	17.31	0.499	1.20	59.4	-62	0.99		
13:04	6.42	18.16	0.497	1.14	58.9	-65	0.99		
13:07	6.42	18.58	0.498	1.06	55.5	-67	0.99		
13:10	6.31	17.87	0.505	1.75	55.5	-68	0.99		
13:13	6.39	15.90	0.507	1.50	55.0	-72	0.99		
13:16	6.42	17.38	0.496	1.20	58.0	-75	0.99		
13:19	6.45	17.80	0.495	0.94	57.0	-76	0.99		
13:22	6.43	18.06	0.496	0.89	54.4	-77	0.99		
1325 Collect MW-105-20210622									

AFV 06/22/21

Certified Sample Information:

Time of Sample: 13:25 Analyst Signature: AFV

Instrument Data:

Manufacturer/Model: Horiba U-52

Serial No. Unit: Loparl24 Serial No. Handheld: VTVEB101

Calibration Date/Time: 06/22/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell — Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10S
Sample I.D.: MW-10S-20210622 (if different from well no.)

Project: Patchogue
Personnel: AFV/MHM
Date: 06/22/21 Time: 1252
Weather: Rainy Air Temp.: 71°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.98 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer) ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____ (Tubing/Rope) ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200mL/min Elapsed Time: 30min Volume Pumped: 2gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☒ Prepared Off-Site ☒ ~~Field Cleaned~~

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer) ☐ Teflon® ☒ Stainless Steel (Tubing/Rope) ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☒ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/22/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name	Patchogue	Project Number:	153021
Client	BC	Date:	06/22/21
Personnel	AEV / MHM	Well ID:	MW-10D
Purge/Sample Depth		Sample ID:	MW-10D-20210622

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1337	6.55	17.04	0.534	1.90	19.2	-21	0.92	200	
13:40	6.53	16.93	0.563	1.13	28.0	-7	0.92		
13:43	6.48	16.30	0.572	0.86	40.8	5	0.93		
13:46	6.48	16.68	0.566	0.68	43.4	13	0.94		
13:49	6.47	17.12	0.563	0.77	41.2	17	0.95		
13:52	6.44	16.53	0.573	0.86	43.1	23	0.95		
13:55	6.45	16.25	0.569	0.74	34.0	28	0.95		
13:58	6.46	16.01	0.568	0.68	29.6	33	0.95		
14:01	6.46	15.96	0.561	0.66	25.5	37	0.95		
14:04	6.45	15.87	0.555	0.69	20.9	41	0.95		
14:07	6.45	15.81	0.551	0.71	16.6	45	0.95		
1410	Collect MW-10D-20210622								

AEV
06/22/21

Certified Sample Information:
Time of Sample: 14:10 Analyst Signature: AEV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPGRLRU Serial No. Handheld: VTVEB101
Calibration Date/Time: 06/22/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10D
Sample I.D.: MW-10D-20210622 (if different from well no.)

Project: Patchogue
Personnel: AFV/MHM

Date: 06/22/21 Time: 1337
Weather: Rainy Air Temp.: 70°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 10.92 ft Bottom of Well: ____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☒ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 mL/min Elapsed Time: 30 min Volume Pumped: 2 gal
Was well Evacuated? ☐ Yes ☐ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/22/21

Brown AND Caldwell

2 Park Way, Upper Saddle River NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV/MHM
Purge/Sample Depth: ~7'

Project Number: 153021
Date: 06/23/21
Well ID: MW-85
Sample ID: MW-85-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0839	5.02	19.19	0.569	3.37	14.0	100	0.50		
0842	5.81	17.61	0.503	1.31	7.9	40	0.50	250	
0845	5.87	17.06	0.491	1.12	8.2	29	0.50		
0848	5.92	16.86	0.488	0.98	9.5	17	0.50		
0851	5.97	16.74	0.471	0.96	4.1	5	0.50		
0854	5.99	16.69	0.468	0.93	2.8	27	0.50		
0857	6.02	16.66	0.464	0.91	2.0	16	0.50		
0900	6.05	16.63	0.462	0.90	1.7	-6	0.50		
0903	6.07	16.58	0.461	0.84	1.5	-8	0.50		
0906	6.08	16.53	0.460	0.80	1.3	-14	0.50		
0909	6.11	16.58	0.460	0.78	1.2	-19	0.50		
0912	Collect MW-85-20210623								

AFV

06/23/21

Certified Sample Information:
Time of Sample: 0912

Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPAT LRu
Calibration Date/Time: 06/23/21

Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-85

Sample I.D.: MW-85-20210623 (if different from well no.)

Project: Patchogue

Personnel: MVM / AFV

Date: 06/23/21 Time: 0839

Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 0.5 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No

Does Weep Hole adequately drain well head? ☑ Yes ☐ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No

Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____ Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal

Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____

MS/MSD: ☐ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AEV / MHM
Purge/Sample Depth: ~23'

Project Number: 153021
Date: 06/23/21
Well ID: MW-8D
Sample ID: MW-8D-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0916	5.38	16.82	0.508	5.06	18.8	34	0.50	250	
0919	5.67	16.58	0.521	3.02	16.2	71	0.50		
0922	5.50	16.34	0.549	1.65	14.0	103	0.50		
0925	5.54	16.18	0.561	0.80	7.9	128	0.50		
0928	5.45	16.12	0.559	0.57	6.9	156	0.50		
0931	5.45	16.09	0.558	0.54	5.7	161	0.50		
0934	5.46	16.04	0.556	0.52	5.2	168	0.50		
0937	5.45	16.02	0.553	0.47	4.5	175	0.50		
0940	5.45	15.97	0.551	0.45	3.9	185	0.50	V	
0943	5.46	15.96	0.551	0.42	3.6	187	0.50		
0946	5.46	15.94	0.551	0.40	3.7	190	0.50		
0949	Collect MW-8D-20210623 (MS/MSD)								

06/23/21

Certified Sample Information:
Time of Sample: 0949

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: 10PAFLRH
Calibration Date/Time: 06/23/21

Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8D
Sample I.D.: MW-8D-20210623 (if different from well no.)

Project: Patchogue
Personnel: AFV/MHM

Date: 06/23/21 Time: 0916
Weather: Sunny Air Temp.: 64°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.50 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☐ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
(Tubing/Rope): ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 ml/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☒ Stainless Steel
(Tubing/Rope): ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☐ No ☒ Yes Name: MW-8D-20210623 (MS/MSD)

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV / MHM
Purge/Sample Depth: ~10'

Project Number: 153021
Date: 06/23/21
Well ID: MW-7S
Sample ID: MW-7S-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1016	6.58	17.70	0.606	2.48	14.3	-36	4.29	250	
1019	6.25	16.98	0.622	2.03	9.6	-51	4.29		
1022	6.47	16.52	0.639	1.13	5.1	-82	4.29		
1025	6.56	16.10	0.644	0.91	5.9	-100	4.29		
1028	6.60	16.01	0.646	0.81	4.3	-110	4.29		
1031	6.65	15.90	0.650	0.77	3.9	-113	4.29		
1034	6.68	15.89	0.651	0.76	3.5	-116	4.29		
1037	6.70	15.86	0.651	0.70	3.1	-120	4.29		
1040	6.73	15.82	0.651	0.68	1.9	-123	4.29		
1043	6.73	15.84	0.652	0.68	3.9	-125	4.29		
1046	6.75	15.79	0.652	0.66	2.6	-128	4.29		
1049	Collect MW-7S-20210623								

AFV 06/23/21

Certified Sample Information:
Time of Sample: 1049
Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOANED
Serial No. Handheld: VTVEB101
Calibration Date/Time: 06/23/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-75
Sample I.D.: MW-75-20210623 (if different from well no.)

Project: Patchogue
Personnel: APV / MHM

Date: 06/23/21 Time: 1612
Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.17 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☒ Yes ☐ No ☐ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 ML/MN Elapsed Time: 20 MN Volume Pumped: 2.5 GAL
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD: ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AEV/MHM
Purge/Sample Depth: ~25'

Project Number: 153021
Date: 06/23/21
Well ID: MW-7D
Sample ID: MW-7D-20210623

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1036	6.42	16.49	0.358	4.50	12.1	-6	4.05	250	
1039	5.41	15.57	0.353	3.25	7.7	98	4.05		
1102	5.28	15.37	0.350	2.88	5.6	126	4.05		
1105	5.24	15.29	0.348	2.81	5.3	149	4.05		
1108	5.23	15.30	0.347	2.78	4.0	171	4.05		
1111	5.22	15.25	0.347	3.02	3.9	186	4.05		
1114	5.22	15.25	0.347	2.70	4.0	195	4.05		
1117	5.21	15.23	0.347	2.71	3.2	208	4.05		
1120	5.20	15.17	0.346	2.67	3.5	215	4.05		
1123	5.21	15.23	0.346	2.71	2.8	220	4.05		
1126	5.25	15.24	0.347	2.74	1.9	224	4.05		
1129		Collect MW-7D-20210623							

06/23/21

Certified Sample Information:
Time of Sample: 11:29
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPAR LRn
Calibration Date/Time: 6/23/21
Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7D
Sample I.D.: MW-7D-20210623 (if different from well no.)

Project: Patchogue
Personnel: AFW/MHM

Date: 06/23/21 Time: 10:56
Weather: Sunny Air Temp.: 68 °F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.01 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☒ Yes ☐ No ☐ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☒ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name:	Patchogue	Project Number:	153021
Client:	BC	Date:	06/23/21
Personnel:	AFV/MHM	Well ID:	MW-145
Purge/Sample Depth:	~10'	Sample ID:	MW-145-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1303	6.05	20.39	0.592	1.99	56.4	79	0.86	200	
1306	6.21	20.15	0.586	1.61	42.3	61	0.86		
1309	6.42	20.06	0.579	1.01	37.6	56	0.86		
1312	6.51	20.23	0.577	0.65	22.7	54	0.86		
1315	6.54	20.24	0.574	0.59	20.6	53	0.86		
1318	6.60	20.25	0.570	0.55	18.7	52	0.86		
1321	6.66	20.25	0.567	0.55	14.3	50	0.86		
1324	6.69	20.38	0.561	0.55	10.1	47	0.86		
1327	6.71	20.38	0.558	0.49	7.8	46	0.86		
1330	6.72	20.39	0.556	0.43	5.3	39	0.86		
1333	6.74	20.40	0.553	0.40	4.1	35			
1336	Collect MW-145-20210623								

AFV 06/23/21

Certified Sample Information:
Time of Sample: 1336

Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPARLRY
Calibration Date/Time: 06/23/21
Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-14S
Sample I.D.: MW-14S-20210623 (if different from well no.)

Project: Patchogue
Personnel: MHM / AFV

Date: 06/23/21 Time: 1303
Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.85 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 mL/min Elapsed Time: 30 min Volume Pumped: 2.0 gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD: ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV / MHm
Purge/Sample Depth: ~19'

Project Number: 153021
Date: 06/23/21
Well ID: MW-14D
Sample ID: MW-14D-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1342	3.36	18.15	0.889	4.15	93.4	181	0.81	200	
1345	4.98	16.80	0.673	1.34	141	300	0.81		
1348	5.01	17.31	0.657	0.91	122	291	0.82		
1351	5.06	17.73	0.642	0.45	100	284	0.83		
1354	5.07	17.98	0.646	0.38	98.3	283	0.83		
1357	5.05	18.04	0.642	0.35	91.9	283	0.83		
1400	5.06	18.04	0.636	0.21	89.0	286	0.82		
1403	5.07	18.05	0.637	0.30	99.5	287	0.83		
1406	5.07	18.08	0.637	0.30	92.4	288	0.85		
1409	5.07	18.08	0.637	0.29	96.2	290	0.83		
1412	5.07	18.14	0.637	0.27	87.2	290	0.83		
1415	Collect MW-14D-20210623								

Certified Sample Information:
Time of Sample: 1415

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPar LRu
Calibration Date/Time: 06/23/21

Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-14D
Sample I.D.: MW-14D-20210623 (if different from well no.)

Project: Paschoque
Personnel: MHM/AFV

Date: 06/23/21 Time: 1312
Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☐ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.81 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 ml/min Elapsed Time: 30 min Volume Pumped: 2.0 gal
Was well Evacuated? ☐ Yes ☐ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV / MHM
Purge/Sample Depth: ~11

Project Number: 153021
Date: 06/23/21
Well ID: MW-12S
Sample ID: MW-12S-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
14:33	5.95	22.17	0.363	2.43	12.3	188	1.42	250	
14:36	6.16	19.06	0.369	1.05	3.6	176	1.40		
14:39	6.30	18.00	0.386	0.63	0.7	165	1.40		
14:42	6.37	17.59	0.395	0.55	0.2	146	1.40		
14:45	6.39	17.46	0.403	0.45	0.0	120	1.40		
14:48	6.41	17.45	0.407	0.38	0.0	100	1.40		
14:51	6.41	17.34	0.412	0.36	0.0	70	1.40		
14:54	6.43	17.31	0.414	0.32	0.0	53	1.40		
14:57	6.44	17.30	0.415	0.32	0.0	47	1.40		
15:00	6.46	17.29	0.415	0.33	0.3	34	1.40		
15:03	6.42	17.19	0.417	0.44	0.0	26	1.40		
15:06	collect		MW-12S-20210623						

N/A

N/A

Certified Sample Information:
Time of Sample: 15:06
Analyst Signature: Mia Gilliam

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LoparLAU
Serial No. Handheld: VTVEB101
Calibration Date/Time: 06/23/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12S

Sample I.D.: MW-12S-20210623 (if different from well no.)

Project: Patchogue

Personnel: MHM/AFV

Date: 06/23/21 Time: 14:33

Weather: Sunny Air Temp.: 65

WELL DATA:

Casing Diameter: 8 in ☒ Stainless Steel ☐ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2 in ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 1.35 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☒ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No

Does Weep Hole adequately drain well head? ☒ Yes ☐ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No

Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____

(Tubing/Rope): ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 ml/min Elapsed Time: 30 min Volume Pumped: 2.5 gal

Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☒ Stainless Steel

(Tubing/Rope): ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____

MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: Mia Gilliam Date: 6/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: PAtchogue
Client: BC
Personnel: MHM / AFV
Purge/Sample Depth: ~21

Project Number: 153021
Date: 06/23/21
Well ID: MW-12D
Sample ID: MW-12D-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1513	5.02	17.57	0.541	1.91	20.1	186	1.25	225	
1516	5.10	17.30	0.533	0.91	12.0	202	1.25		
1519	5.12	17.13	0.533	0.51	9.7	213	1.26		
1522	5.12	16.99	0.532	0.32	4.8	223	1.26		
1525	5.12	17.03	0.532	0.29	3.8	238	1.27		
1528	5.11	16.91	0.531	0.27	2.7	247	1.27		
1531	5.12	16.93	0.531	0.26	2.0	251	1.27		
1534	5.11	16.94	0.531	0.25	1.1	256	1.26		
1537	5.11	16.95	0.531	0.25	0.9	261	1.22		
1540	5.10	16.92	0.531	0.24	0.0	266	1.25		
1543	5.12	16.90	0.531	0.23	0.0	268	1.25		
1546		Collect MW-12D-20210623							

Certified Sample Information:
Time of Sample: 1546
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: LOPGLRN
Serial No. Handheld: VTVER101
Calibration Date/Time: 06/23/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12D
Sample I.D.: MW-12D-20210623 (if different from well no.)

Project: Patthogal
Personnel: MHM / AFV

Date: 06/23/21 Time: 1513
Weather: Sunny Air Temp.: 62°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.23 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☐ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☑ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 225 ml/min Elapsed Time: 30 min Volume Pumped: 2.25 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☐ Teflon® ☑ Polyethylene
SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: MHM / AFV
Purge/Sample Depth: ~10'

Project Number: 153021
Date: 06/23/21
Well ID: MW-11S
Sample ID: MW-11S-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1600	5.99	22.43	0.326	2.27	40.7	31	0.72	300	
16:03	6.29	20.81	0.424	0.97	26.6	-23	0.72		
16:06	6.35	20.05	0.441	0.66	17.0	-41	0.72		
16:09	6.39	19.75	0.444	0.58	14.3	-46	0.72		
16:12	6.42	19.57	0.448	0.60	19.8	-52	0.72		
16:15	6.43	19.38	0.449	0.59	24.5	-55	0.72		
16:18	6.45	19.29	0.451	0.52	29.3	-58	0.72		
16:21	6.46	19.27	0.451	0.53	31.1	-61	0.72		
16:24	6.47	19.15	0.453	0.49	32.4	-62	0.72		
16:27	6.48	19.09	0.455	0.48	32.5	-65	0.72		
16:30	6.49	19.15	0.455	0.49	32.4	-67	0.72		
16:33	collect		MW-11S-20210623						

NSG

Certified Sample Information:
Time of Sample: 16:33
Analyst Signature: [signature]

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: LOparLRu
Serial No. Handheld: VTVER101
Calibration Date/Time: 06/23/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11S

Sample I.D.: MW-11S-20210623 (if different from well no.)

Project: Patchogue

Personnel: MHM/AFV

Date: 06/23/21 Time: 16:00

Weather: Sunny Air Temp.: 65

WELL DATA:

Casing Diameter: 8in ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2in ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 0.68 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☒ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No

Does Weep Hole adequately drain well head? ☐ Yes ☒ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No

Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____

Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 300 ml/min Elapsed Time: 30 min Volume Pumped: 3 gal

Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel

Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____

MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: Mia Williams Date: 06/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone (201) 574-4700 Fax (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV/MHM
Purge/Sample Depth: ~21'

Project Number: 153021
Date: 06/23/21
Well ID: MW-11D
Sample ID: MW-11D-20210623

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1646	6.07	18.62	0.568	10.33	16.9	41	0.86	250	
1649	5.99	17.84	0.651	10.14	8.6	68	0.86		
1652	6.03	17.63	0.658	9.85	5.8	71	0.86		
1655	6.07	17.47	0.665	9.72	4.1	73	0.86		
1658	6.13	17.40	0.665	9.57	3.6	64	0.86		
1701	6.19	17.32	0.665	9.38	3.4	45	0.86		
1704	6.25	17.29	0.665	9.15	3.3	29	0.86		
1707	6.28	17.16	0.655	9.09	3.1	13	0.86		
1710	6.29	17.18	0.654	9.01	2.9	10	0.86		
1713	6.28	17.20	0.653	8.96	2.6	8	0.86		
1716	6.30	17.21	0.653	8.93	2.0	5	0.86		
1719	Collect MW-11D-20210623								

Certified Sample Information:
Time of Sample: 1719

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPARLRU
Calibration Date/Time: 06/23/21

Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell — Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11D
Sample I.D.: MW-11D-20210623 (if different from well no.)

Project: AEV / MHM
Personnel: Patchogue

Date: 6/23/21 Time: 1646
Weather: Sunny Air Temp: 65°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO: Static Water Level: 0.84 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene
SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☐ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data

DUP: ☒ No ☐ Yes Name: _____
MS/MSD: ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/23/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone (201) 574-4700 Fax (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name	Patchogue	Project Number:	153021
Client	BC	Date:	06/24/21
Personnel	AFV / MHM	Well ID:	MW-45
Purge/Sample Depth	~9.5'	Sample ID:	MW-45-20210624

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0820	6.56	15.48	0.581	1.99	24.4	-62	4.68	300	
0823	6.63	14.92	0.573	1.78	19.7	-86	4.68		
0826	6.70	14.56	0.564	1.58	12.2	-100	4.68		
0829	6.74	14.58	0.562	1.41	11.6	-106	4.68		
0832	6.83	14.58	0.561	1.36	10.9	-119	4.68		
0835	6.92	14.59	0.560	1.29	10.5	-122	4.68		
0838	6.89	14.53	0.561	1.29	8.7	-126	4.68		
0841	6.84	14.51	0.562	1.25	6.1	-119	4.68		
0844	6.80	14.49	0.564	1.30	5.5	-118	4.68		
0847	6.83	14.53	0.567	1.28	6.1	-119	4.68		
0850	6.87	14.61	0.568	1.27	6.8	-121	4.68		
0853	MW-45-20210624								

AFV 06/24/21

Certified Sample Information:
Time of Sample: 0853

Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit:
Calibration Date/Time: 6/24/21

Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-4S
Sample I.D.: MW-4S-20210624 (if different from well no.)

Project: Patchogue
Personnel: AFV/MHM

Date: 06/24/21 Time: 0820
Weather: Sunny Air Temp.: 68 °F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.62 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 300 mL/min Elapsed Time: 30 min Volume Pumped: 3 gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols

Signature: _____ Date: 6/24/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV / MHM
Purge/Sample Depth: ~19'

Project Number: 153021
Date: 06/24/21
Well ID: MW-4D
Sample ID: MW-4D-20210624

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm) 0.564	DO (mg/L)	Turbidity (NTU)				
0900	6.71	15.79	~~0.000~~	4.59	2.9	-48	4.43	250	
0903	5.97	15.06	0.624	1.74	2.8	33	4.44		
0906	5.80	14.92	0.626	1.07	3.4	62	4.45		
0909	5.75	14.87	0.627	0.86	2.9	87	4.45		
0912	5.70	14.85	0.628	0.55	1.8	103	4.45		
0915	5.72	14.83	0.628	0.56	1.6	110	4.46		
0918	5.71	14.83	0.628	0.57	1.4	119	4.45		
0921	5.74	14.82	0.628	0.57	0.9	126	4.45		
0924	5.73	14.80	0.628	0.54	0.5	138	4.45		
0927	5.72	14.81	0.628	0.55	0.3	145	4.45		
0930	5.71	14.79	0.628	0.57	0.1	149	4.45		
0933	Collect MW-4D-20210624								

Certified Sample Information:
Time of Sample: 0933
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPAKLRU
Calibration Date/Time: 06/24/21
Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-40

Sample I.D.: MW-4D-20210624 (if different from well no.)

Project: Patchogue

Personnel: AFV / MHM

Date: 06/24/21 Time: 0900

Weather: Sunny Air Temp.: 70°F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 4.38 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No

Does Weep Hole adequately drain well head? ☒ Yes ☐ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No

Is Padlock Functional? ☒ Yes ☐ No ☐ NA Is Inner Casing Intact? ☐ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____

Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal

Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel

Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____

MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/24/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV / MHM
Purge/Sample Depth: ~7'

Project Number: 153021
Date: 06/24/21
Well ID: MW-3
Sample ID: MW-3-20210624

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0941	7.37	17.72	0.441	2.25	12.2	-89	1.70	250	Strong
0944	8.68	17.71	0.435	1.33	12.3	-148	1.70		
0947	8.89	17.64	0.436	1.17	10.6	-155	1.70		Odor
0950	9.06	17.58	0.437	0.91	5.7	-159	1.70		
0953	9.22	17.53	0.438	0.79	1.5	-161	1.70		
0956	9.29	17.50	0.441	0.75	1.8	-164	1.70		
0959	9.41	17.48	0.445	0.74	1.3	-169	1.70		
1002	9.48	17.44	0.448	0.72	1.6	-170	1.70		
1005	9.52	17.45	0.450	0.70	1.9	-171	1.70		Amber
1008	9.57	17.46	0.451	0.69	2.1	-172	1.70		
1011	9.60	17.44	0.453	0.68	2.3	-174	1.70		Color
1014	Collect MW-3-20210624 + DUP-20210624								Water

AFV 06/24/21

Certified Sample Information:
Time of Sample: 1014

Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: LOPARLRY
Calibration Date/Time: 06/24/21
Serial No. Handheld: VTVEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-3
Sample I.D.: MW-3-20210624 (if different from well no.)

Project: Patchogue
Personnel: AFV/MHM

Date: 06/24/21 Time: 0941
Weather: Sunny Air Temp.: 72°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.64 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 2.5 gal Elapsed Time: 30 min Volume Pumped: 250 mL/min
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☐ Clear ☐ Turbid ☒ Color: Amber Yellow ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☐ No ☒ Yes Name: DUP-20210624
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/24/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name:	Patchogue	Project Number:	153021
Client:	BC	Date:	06/24/21
Personnel:	AFV/MHM	Well ID:	MW-13S
Purge/Sample Depth:	~10'	Sample ID:	MW-13S-20210624

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1020	9.11	18.44	0.594	1.76	76.7	-131	1.41	200	Amber
1023	9.18	18.03	0.593	0.51	67.5	-233	1.41		Yellow
1026	9.25	17.96	0.588	0.67	61.4	-281	1.42		
1029	9.33	17.87	0.581	0.82	58.7	-306	1.42		
1032	9.37	17.83	0.578	0.96	54.8	-309	1.43		Color
1035	9.39	17.85	0.575	0.98	52.6	-321	1.43		
1038	9.42	17.86	0.574	1.15	51.7	-335	1.43		
1041	9.43	17.87	0.573	1.30	50.8	-339	1.43		
1044	9.44	17.86	0.573	1.35	49.9	-348	1.43		Strong
1047	9.44	17.88	0.573	1.41	48.7	-350	1.43		
1050	9.45	17.86	0.573	1.42	46.6	-334	1.43		odor
1053	Collect	MW-13S-20210624							

AFV
06/24/21

Certified Sample Information:
Time of Sample: 1053

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: 10PAR1KU
Calibration Date/Time: 6/24/21
Serial No. Handheld: VTUEB101

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-135

Sample I.D.: MW-135-20210624 (if different from well no.)

Project: Patchogue

Personnel: AEV / MHM

Date: 06/24/21 Time: 1020

Weather: Sunny Air Temp.: 72°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 1.34 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No

Does Weep Hole adequately drain well head? ☒ Yes ☐ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No

Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____ Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200mL/min Elapsed Time: 30min Volume Pumped: 2gal

Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☐ Clear ☐ Turbid ☒ Color: Amber Yellow ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____

MS/MSD: ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/24/21

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AEV / MHM
Purge/Sample Depth: ~ 20'

Project Number: 153021
Date: 6/24/21
Well ID: MW-13D
Sample ID: MW-13D-20210624

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1056	7.88	17.53	0.380	2.93	26.4	-27	1.31	200	
1059	6.82	16.95	0.381	0.98	22.5	-8	1.31		
1102	6.59	16.26	0.383	0.55	19.7	3	1.31		
1105	6.48	16.11	0.382	0.49	12.6	16	1.31		
1108	6.34	16.05	0.382	0.43	9.57	24	1.31		
1111	6.19	16.01	0.381	0.39	7.25	48	1.31		
1114	6.09	15.97	0.380	0.35	5.87	61	1.31		
1117	6.05	15.93	0.380	0.32	3.13	69	1.31		
1120	6.05	15.89	0.379	0.30	2.56	75	1.31		
1123	6.04	15.84	0.377	0.29	2.19	81	1.31		
1126	6.04	15.83	0.375	0.28	1.83	87	1.31		
1129	Collect MW-13D-20210624								

AEV 6/24/21

Certified Sample Information:
Time of Sample: 1129
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: L9QARLRU
Serial No. Handheld: VTVEB101
Calibration Date/Time: 6/24/21

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D

Sample I.D.: MW-13D-20210624 (if different from well no.)

Project: Patchogue

Personnel: AFV / MHM

Date: 6/24/21 Time: 1056

Weather: Sunny Air Temp.: 72°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 1.24 ft Bottom of Well: _____ ft

DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:

CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No

Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No

Does Weep Hole adequately drain well head? ☒ Yes ☐ No

Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No

Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No

Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No

VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____

Tubing/Rope: ☐ Teflon® ☒ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 mL/min Elapsed Time: 30 min Volume Pumped: 2 gal

Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump ☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel

Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☐ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid

FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____

MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 6/24/21

Appendix B: Laboratory Reports

ANALYTICAL REPORT

Job Number: 410-45105-1

Job Description: Patchogue, NY

For:
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, NJ 07446

Attention: Mr. James L Marolda

Barb Weyandt

Approved for release.
Barbara A Weyandt
Project Manager
7/12/2021 1:16 PM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
Barbara.Weyandt@eurofinset.com
07/12/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

Job Number: 410-45105-1

Job Description: Patchogue, NY

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Job Narrative
410-45105-1

Receipt
The samples were received on 6/25/2021 7:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.0°C and 5.6°C

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-13S-20210624 (410-45105-17). 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_SIM: The continuing calibration verification (CCV) associated with batch 410-143979 recovered above the upper control limit for Benzo[g,h,i]perylene and Indeno[1,2,3-cd]pyrene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270D_SIM: Surrogate recoveries for the method blank (MB) associated with preparation batch 410-143125 were outside the lower control limits. Several analytes were also detected above the reporting limit (MDL) in this method blank. All affected samples were re-extracted and/or re-analyzed outside of holding time. The first set of data have been reported.

Method 8270D_SIM: Dibenz(a,h)anthracene was detected above the method detection limit (MDL) in the method blank associated with 410-143664 as well as in the following sample: MW-8S-20210623 (410-45105-4). All affected samples were re-extracted and/or re-analyzed outside of holding time with acceptable results. The first set of data have been reported.

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

Sample Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-45105-1	MW-1-20210622	Groundwater	06/22/21 11:32	06/25/21 19:14	
410-45105-2	MW-10S-20210622	Groundwater	06/22/21 13:25	06/25/21 19:14	
410-45105-3	MW-10D-20210622	Groundwater	06/22/21 14:10	06/25/21 19:14	
410-45105-4	MW-8S-20210623	Groundwater	06/23/21 09:12	06/25/21 19:14	
410-45105-5	MW-8D-20210623	Groundwater	06/23/21 09:49	06/25/21 19:14	
410-45105-6	MW-7S-20210623	Groundwater	06/23/21 10:49	06/25/21 19:14	
410-45105-7	MW-7D-20210623	Groundwater	06/23/21 11:29	06/25/21 19:14	
410-45105-8	MW-14S-20210623	Groundwater	06/23/21 13:36	06/25/21 19:14	
410-45105-9	MW-14D-20210623	Groundwater	06/23/21 14:15	06/25/21 19:14	
410-45105-10	MW-12S-20210623	Groundwater	06/23/21 15:06	06/25/21 19:14	
410-45105-11	MW-12D-20210623	Groundwater	06/23/21 15:46	06/25/21 19:14	
410-45105-12	MW-11S-20210623	Groundwater	06/23/21 16:33	06/25/21 19:14	
410-45105-13	MW-11D-20210623	Groundwater	06/23/21 17:19	06/25/21 19:14	
410-45105-14	MW-4S-20210624	Groundwater	06/24/21 08:53	06/25/21 19:14	
410-45105-15	MW-4D-20210624	Groundwater	06/24/21 09:33	06/25/21 19:14	
410-45105-16	MW-3-20210624	Groundwater	06/24/21 10:14	06/25/21 19:14	
410-45105-17	MW-13S-20210624	Groundwater	06/24/21 10:53	06/25/21 19:14	
410-45105-18	MW-13D-20210624	Groundwater	06/24/21 11:29	06/25/21 19:14	
410-45105-19	FB-20210624	Water	06/24/21 09:15	06/25/21 19:14	
410-45105-20	DUP-20210624	Groundwater	06/24/21 00:00	06/25/21 19:14	
410-45105-21	Trip-Blank	Water	06/22/21 00:00	06/25/21 19:14	

Detection Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Client Sample ID: MW-1-20210622 — Lab Sample ID: 410-45105-1

No Detections.

Client Sample ID: MW-10S-20210622 — Lab Sample ID: 410-45105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.22	J	1.0	0.20	ug/L	1		8260C	Total/NA
Benzo[a]anthracene	0.019	J B	0.056	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.023	J B	0.056	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.025	J B	0.056	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.019	J B	0.056	0.011	ug/L	1		8270D SIM	Total/NA
Chrysene	0.016	J B	0.056	0.011	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.016	J	0.056	0.011	ug/L	1		8270D SIM	Total/NA
Pyrene	0.020	J B	0.056	0.011	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-10D-20210622 — Lab Sample ID: 410-45105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.018	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.021	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.026	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.021	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.011	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.020	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.013	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.052	0.021	ug/L	1		8270D SIM	Total/NA
Pyrene	0.024	J B	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-8S-20210623 — Lab Sample ID: 410-45105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.20		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Dibenz(a,h)anthracene	0.028	J B	0.052	0.021	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-8D-20210623 — Lab Sample ID: 410-45105-5

No Detections.

Client Sample ID: MW-7S-20210623 — Lab Sample ID: 410-45105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.34	J	1.0	0.30	ug/L	1		8260C	Total/NA
Acenaphthene	0.099		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.044	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.025	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-7D-20210623 — Lab Sample ID: 410-45105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-14S-20210623 — Lab Sample ID: 410-45105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.026	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.014	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-14S-20210623 (Continued) — Lab Sample ID: 410-45105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.015	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.021	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-14D-20210623 — Lab Sample ID: 410-45105-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.010	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.014	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.011	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.012	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.019	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-12S-20210623 — Lab Sample ID: 410-45105-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.014	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-12D-20210623 — Lab Sample ID: 410-45105-11

No Detections.

Client Sample ID: MW-11S-20210623 — Lab Sample ID: 410-45105-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.97	J	1.0	0.30	ug/L	1		8260C	Total/NA
Xylenes, Total	0.61	J	1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	0.82		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	3.5		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.46		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.15		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.14		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.051	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.052		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.34		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	4.1		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	8.2		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.058		0.052	0.021	ug/L	1		8270D SIM	Total/NA
Naphthalene	3.0		0.073	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	4.8		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	44		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Phenanthrene - DL	9.6		0.73	0.31	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-11D-20210623 — Lab Sample ID: 410-45105-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.015	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.016	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.024	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.030	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.044	J	0.071	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	0.031	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Client Sample ID: MW-4S-20210624 — Lab Sample ID: 410-45105-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.70	J	1.0	0.30	ug/L	1		8260C	Total/NA
Acenaphthylene	0.60		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.48		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	4.5		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	8.8		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.21		0.073	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	4.5		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	49		0.52	0.10	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-4D-20210624 — Lab Sample ID: 410-45105-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.016	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-3-20210624 — Lab Sample ID: 410-45105-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.60	J	1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	2.8		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.88	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	4.1		1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	4.1		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	1.1		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	1.2		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.024	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.74		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Dibenz(a,h)anthracene	0.030	J	0.051	0.021	ug/L	1		8270D SIM	Total/NA
Fluorene	5.9		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	6.5		0.072	0.031	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	37		0.51	0.10	ug/L	10		8270D SIM	Total/NA
Fluoranthene - DL	13		0.51	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	91		0.72	0.31	ug/L	10		8270D SIM	Total/NA
Pyrene - DL	16		0.51	0.10	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-13S-20210624 — Lab Sample ID: 410-45105-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.0	J	5.0	2.0	ug/L	5		8260C	Total/NA
Xylenes, Total	2.3	J	5.0	2.0	ug/L	5		8260C	Total/NA
Acenaphthylene	1.7		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	8.7		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	1.4		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.091		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.098		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.032	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	1.1		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	8.1		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	7.9		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	58		1.0	0.20	ug/L	20		8270D SIM	Total/NA
Fluorene - DL	23		1.0	0.20	ug/L	20		8270D SIM	Total/NA
Naphthalene - DL	130		1.4	0.61	ug/L	20		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13S-20210624 (Continued) — Lab Sample ID: 410-45105-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene - DL	44		1.4	0.61	ug/L	20		8270D SIM	Total/NA

Client Sample ID: MW-13D-20210624 — Lab Sample ID: 410-45105-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.011	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.031	J	0.071	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	0.014	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FB-20210624 — Lab Sample ID: 410-45105-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.016	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA

Client Sample ID: DUP-20210624 — Lab Sample ID: 410-45105-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.55	J	1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	2.7		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.90	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	4.1		1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	4.3		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	1.2		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	1.2		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.019	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.71		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	6.6		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	6.0		0.072	0.031	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	36		0.51	0.10	ug/L	10		8270D SIM	Total/NA
Fluoranthene - DL	12		0.51	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	91		0.72	0.31	ug/L	10		8270D SIM	Total/NA
Pyrene - DL	15		0.51	0.10	ug/L	10		8270D SIM	Total/NA

Client Sample ID: Trip-Blank — Lab Sample ID: 410-45105-21

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-1-20210622

Lab Sample ID: 410-45105-1

Date Collected: 06/22/21 11:32

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/02/21 16:26	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/02/21 16:26	1
Toluene	ND		1.0	0.20	ug/L			07/02/21 16:26	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/02/21 16:26	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/02/21 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*07/02/21 16:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/02/21 16:26*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/02/21 16:26*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/02/21 16:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Acenaphthylene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Anthracene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Chrysene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/29/21 09:35	07/02/21 02:32	1
Fluoranthene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Fluorene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/29/21 09:35	07/02/21 02:32	1
Naphthalene	ND		0.071	0.030	ug/L		06/29/21 09:35	07/02/21 02:32	1
Phenanthrene	ND		0.071	0.030	ug/L		06/29/21 09:35	07/02/21 02:32	1
Pyrene	ND		0.051	0.010	ug/L		06/29/21 09:35	07/02/21 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*69*		*10 - 110*	*06/29/21 09:35*	*07/02/21 02:32*	*1*
1-Methylnaphthalene-d10 (Surr)	*73*		*36 - 111*	*06/29/21 09:35*	*07/02/21 02:32*	*1*
Fluoranthene-d10 (Surr)	*73*		*47 - 128*	*06/29/21 09:35*	*07/02/21 02:32*	*1*

Client Sample ID: MW-10S-20210622

Lab Sample ID: 410-45105-2

Date Collected: 06/22/21 13:25

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/02/21 16:49	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/02/21 16:49	1
Toluene	**0.22**	**J**	1.0	0.20	ug/L			07/02/21 16:49	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/02/21 16:49	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/02/21 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/02/21 16:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/02/21 16:49*	*1*

Client Sample ID: MW-10S-20210622

Date Collected: 06/22/21 13:25
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-2

Matrix: Groundwater

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/02/21 16:49*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/02/21 16:49*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND			0.056	0.011	ug/L		06/29/21 09:35	07/02/21 03:03	1
Acenaphthylene	ND			0.056	0.011	ug/L		06/29/21 09:35	07/02/21 03:03	1
Anthracene	ND			0.056	0.011	ug/L		06/29/21 09:35	07/02/21 03:03	1
Benzo[a]anthracene	**0.019**	**J B**	UJ-RC:2	0.058	0.019	ug/L		06/29/21 09:35	07/02/21 03:03	1
Benzo[a]pyrene	**0.023**	**J B**	UJ-RC:2	0.058	0.023	ug/L		06/29/21 09:35	07/02/21 03:03	1
Benzo[b]fluoranthene	**0.025**	**J B**	UJ-RC:2	0.066	0.025	ug/L		06/29/21 09:35	07/02/21 03:03	1
Benzo[g,h,i]perylene	**0.019**	**J B**	UJ-RC:2	0.056	0.019	ug/L		06/29/21 09:35	07/02/21 03:03	1
Benzo[k]fluoranthene	ND			0.056	0.011	ug/L		06/29/21 09:35	07/02/21 03:03	1
Chrysene	**0.016**	**J B**	UJ-RC:2	0.088	0.016	ug/L		06/29/21 09:35	07/02/21 03:03	1
Dibenz(a,h)anthracene	ND			0.056	0.022	ug/L		06/29/21 09:35	07/02/21 03:03	1
Fluoranthene	**0.016**	**J**		0.056	0.011	ug/L		06/29/21 09:35	07/02/21 03:03	1
Fluorene	ND			0.056	0.011	ug/L		06/29/21 09:35	07/02/21 03:03	1
Indeno[1,2,3-cd]pyrene	ND			0.056	0.022	ug/L		06/29/21 09:35	07/02/21 03:03	1
Naphthalene	ND			0.078	0.033	ug/L		06/29/21 09:35	07/02/21 03:03	1
Phenanthrene	ND			0.078	0.033	ug/L		06/29/21 09:35	07/02/21 03:03	1
Pyrene	**0.020**	**J B**	UJ-RC:2	0.056	0.020	ug/L		06/29/21 09:35	07/02/21 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*74*		*10 - 110*	*06/29/21 09:35*	*07/02/21 03:03*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*36 - 111*	*06/29/21 09:35*	*07/02/21 03:03*	*1*
Fluoranthene-d10 (Surr)	*80*		*47 - 128*	*06/29/21 09:35*	*07/02/21 03:03*	*1*

Client Sample ID: MW-10D-20210622

Date Collected: 06/22/21 14:10
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-3

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/02/21 17:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/02/21 17:12	1
Toluene	ND		1.0	0.20	ug/L			07/02/21 17:12	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/02/21 17:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/02/21 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/02/21 17:12*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/02/21 17:12*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/02/21 17:12*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/02/21 17:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.052	0.010	ug/L		06/29/21 09:35	07/02/21 03:33	1
Acenaphthylene	ND		0.052	0.010	ug/L		06/29/21 09:35	07/02/21 03:33	1
Anthracene	ND		0.052	0.010	ug/L		06/29/21 09:35	07/02/21 03:33	1

Client Sample ID: MW-10D-20210622

Lab Sample ID: 410-45105-3

Date Collected: 06/22/21 14:10
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.018**	**J B**	UJ-RC:2	0.058	0.018	ug/L		06/29/21 09:35	07/02/21 03:33	1
Benzo[a]pyrene	**0.021**	**J B**	UJ-RC:2	0.058	0.021	ug/L		06/29/21 09:35	07/02/21 03:33	1
Benzo[b]fluoranthene	**0.026**	**J B**	UJ-RC:2	0.066	0.026	ug/L		06/29/21 09:35	07/02/21 03:33	1
Benzo[g,h,i]perylene	**0.021**	**J B**	UJ-RC:2	0.056	0.021	ug/L		06/29/21 09:35	07/02/21 03:33	1
Benzo[k]fluoranthene	**0.011**	**J B**	UJ-RC:2	0.070	0.011	ug/L		06/29/21 09:35	07/02/21 03:33	1
Chrysene	**0.020**	**J B**	UJ-RC:2	0.088	0.020	ug/L		06/29/21 09:35	07/02/21 03:33	1
Dibenz(a,h)anthracene	ND			0.052	0.021	ug/L		06/29/21 09:35	07/02/21 03:33	1
Fluoranthene	**0.013**	**J**		0.052	0.010	ug/L		06/29/21 09:35	07/02/21 03:33	1
Fluorene	ND			0.052	0.010	ug/L		06/29/21 09:35	07/02/21 03:33	1
Indeno[1,2,3-cd]pyrene	**0.023**	**J**		0.052	0.021	ug/L		06/29/21 09:35	07/02/21 03:33	1
Naphthalene	ND			0.073	0.031	ug/L		06/29/21 09:35	07/02/21 03:33	1
Phenanthrene	ND			0.073	0.031	ug/L		06/29/21 09:35	07/02/21 03:33	1
Pyrene	**0.024**	**J B**	UJ-RC:2	0.056	0.024	ug/L		06/29/21 09:35	07/02/21 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*72*		*10 - 110*	*06/29/21 09:35*	*07/02/21 03:33*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*06/29/21 09:35*	*07/02/21 03:33*	*1*
Fluoranthene-d10 (Surr)	*84*		*47 - 128*	*06/29/21 09:35*	*07/02/21 03:33*	*1*

Client Sample ID: MW-8S-20210623

Lab Sample ID: 410-45105-4

Date Collected: 06/23/21 09:12
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 12:28	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 12:28	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 12:28	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 12:28	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/06/21 12:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 12:28*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/06/21 12:28*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/06/21 12:28*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.20**			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Acenaphthylene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Anthracene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Benzo[a]anthracene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Benzo[a]pyrene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Benzo[b]fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Benzo[g,h,i]perylene	ND	*+		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Benzo[k]fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Chrysene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Dibenz(a,h)anthracene	**0.028**	**J B**	UJ-RC:2	0.052	0.028	ug/L		06/30/21 09:42	07/01/21 04:10	1
Fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1
Fluorene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1

Client Sample ID: MW-8S-20210623

Date Collected: 06/23/21 09:12
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-4
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		06/30/21 09:42	07/01/21 04:10	1
Naphthalene	ND		0.073	0.031	ug/L		06/30/21 09:42	07/01/21 04:10	1
Phenanthrene	ND		0.073	0.031	ug/L		06/30/21 09:42	07/01/21 04:10	1
Pyrene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*79*		*10 - 110*	*06/30/21 09:42*	*07/01/21 04:10*	*1*
1-Methylnaphthalene-d10 (Surr)	*88*		*36 - 111*	*06/30/21 09:42*	*07/01/21 04:10*	*1*
Fluoranthene-d10 (Surr)	*88*		*47 - 128*	*06/30/21 09:42*	*07/01/21 04:10*	*1*

Client Sample ID: MW-8D-20210623

Date Collected: 06/23/21 09:49
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-5
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 11:19	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 11:19	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 11:19	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 11:19	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/06/21 11:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 11:19*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 11:19*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/06/21 11:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Acenaphthylene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Anthracene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Chrysene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		06/30/21 17:15	07/06/21 12:23	1
Fluoranthene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Fluorene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		06/30/21 17:15	07/06/21 12:23	1
Naphthalene	ND		0.072	0.031	ug/L		06/30/21 17:15	07/06/21 12:23	1
Phenanthrene	ND		0.072	0.031	ug/L		06/30/21 17:15	07/06/21 12:23	1
Pyrene	ND		0.052	0.010	ug/L		06/30/21 17:15	07/06/21 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*63*		*10 - 110*	*06/30/21 17:15*	*07/06/21 12:23*	*1*
1-Methylnaphthalene-d10 (Surr)	*55*		*36 - 111*	*06/30/21 17:15*	*07/06/21 12:23*	*1*
Fluoranthene-d10 (Surr)	*84*		*47 - 128*	*06/30/21 17:15*	*07/06/21 12:23*	*1*

Client Sample ID: MW-7S-20210623

Lab Sample ID: 410-45105-6

Date Collected: 06/23/21 10:49

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.34**	**J**	1.0	0.30	ug/L			07/06/21 12:51	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 12:51	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 12:51	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 12:51	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/06/21 12:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 12:51*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 12:51*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/06/21 12:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.099**		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Acenaphthylene	**0.012**	**J**	0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Anthracene	**0.044**	**J**	0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Chrysene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Dibenz(a,h)anthracene	ND		0.051	0.021	ug/L		06/30/21 09:42	07/01/21 03:01	1
Fluoranthene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Fluorene	**0.025**	**J**	0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		06/30/21 09:42	07/01/21 03:01	1
Naphthalene	ND		0.072	0.031	ug/L		06/30/21 09:42	07/01/21 03:01	1
Phenanthrene	ND		0.072	0.031	ug/L		06/30/21 09:42	07/01/21 03:01	1
Pyrene	ND		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*66*		*10 - 110*	*06/30/21 09:42*	*07/01/21 03:01*	*1*
1-Methylnaphthalene-d10 (Surr)	*72*		*36 - 111*	*06/30/21 09:42*	*07/01/21 03:01*	*1*
Fluoranthene-d10 (Surr)	*84*		*47 - 128*	*06/30/21 09:42*	*07/01/21 03:01*	*1*

Client Sample ID: MW-7D-20210623

Lab Sample ID: 410-45105-7

Date Collected: 06/23/21 11:29

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 13:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 13:14	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 13:14	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 13:14	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*07/06/21 13:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 13:14*	*1*

Client Sample ID: MW-7D-20210623

Date Collected: 06/23/21 11:29
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-7

Matrix: Groundwater

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 13:14*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/06/21 13:14*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Acenaphthylene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Anthracene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Benzo[a]anthracene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Benzo[a]pyrene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Benzo[b]fluoranthene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Chrysene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Dibenz(a,h)anthracene	ND			0.051	0.020	ug/L		06/30/21 09:42	07/01/21 03:32	1
Fluoranthene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Fluorene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 03:32	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.020	ug/L		06/30/21 09:42	07/01/21 03:32	1
Naphthalene	ND			0.071	0.031	ug/L		06/30/21 09:42	07/01/21 03:32	1
Phenanthrene	ND			0.071	0.031	ug/L		06/30/21 09:42	07/01/21 03:32	1
Pyrene	**0.012**	**J**	UJ-RC:7	0.080	0.012	ug/L		06/30/21 09:42	07/01/21 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*68*		*10 - 110*	*06/30/21 09:42*	*07/01/21 03:32*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*06/30/21 09:42*	*07/01/21 03:32*	*1*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*	*06/30/21 09:42*	*07/01/21 03:32*	*1*

Client Sample ID: MW-14S-20210623

Date Collected: 06/23/21 13:36
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-8

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 13:37	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 13:37	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 13:37	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 13:37	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/06/21 13:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 13:37*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 13:37*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/06/21 13:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.026**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Acenaphthylene	**0.014**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Anthracene	**0.015**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1

Client Sample ID: MW-14S-20210623

Lab Sample ID: 410-45105-8

Date Collected: 06/23/21 13:36
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Benzo[a]pyrene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Benzo[b]fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Benzo[g,h,i]perylene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Benzo[k]fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Chrysene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Dibenz(a,h)anthracene	ND			0.052	0.021	ug/L		06/30/21 09:42	07/01/21 04:02	1
Fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Fluorene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:02	1
Indeno[1,2,3-cd]pyrene	ND			0.052	0.021	ug/L		06/30/21 09:42	07/01/21 04:02	1
Naphthalene	ND			0.073	0.031	ug/L		06/30/21 09:42	07/01/21 04:02	1
Phenanthrene	ND			0.073	0.031	ug/L		06/30/21 09:42	07/01/21 04:02	1
Pyrene	**0.021**	**J**	UJ-RC:7	0.080	0.021	ug/L		06/30/21 09:42	07/01/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*69*		*10 - 110*	*06/30/21 09:42*	*07/01/21 04:02*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*06/30/21 09:42*	*07/01/21 04:02*	*1*
Fluoranthene-d10 (Surr)	*89*		*47 - 128*	*06/30/21 09:42*	*07/01/21 04:02*	*1*

Client Sample ID: MW-14D-20210623

Lab Sample ID: 410-45105-9

Date Collected: 06/23/21 14:15
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 14:00	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 14:00	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 14:00	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 14:00	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/06/21 14:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 14:00*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*07/06/21 14:00*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/06/21 14:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Acenaphthylene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Anthracene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Benzo[a]anthracene	**0.010**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Benzo[b]fluoranthene	**0.014**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Chrysene	**0.011**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		06/30/21 09:42	07/01/21 04:33	1
Fluoranthene	**0.012**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1
Fluorene	ND		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 04:33	1

Client Sample ID: MW-14D-20210623

Lab Sample ID: 410-45105-9

Date Collected: 06/23/21 14:15
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND			0.052	0.021	ug/L		06/30/21 09:42	07/01/21 04:33	1
Naphthalene	ND			0.072	0.031	ug/L		06/30/21 09:42	07/01/21 04:33	1
Phenanthrene	ND			0.072	0.031	ug/L		06/30/21 09:42	07/01/21 04:33	1
Pyrene	**0.019**	**J**	UJ-RC:7	0.080	0.019	ug/L		06/30/21 09:42	07/01/21 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*37*		*10 - 110*	*06/30/21 09:42*	*07/01/21 04:33*	*1*
1-Methylnaphthalene-d10 (Surr)	*71*		*36 - 111*	*06/30/21 09:42*	*07/01/21 04:33*	*1*
Fluoranthene-d10 (Surr)	*85*		*47 - 128*	*06/30/21 09:42*	*07/01/21 04:33*	*1*

Client Sample ID: MW-12S-20210623

Lab Sample ID: 410-45105-10

Date Collected: 06/23/21 15:06
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 14:23	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 14:23	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 14:23	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 14:23	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*07/06/21 14:23*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 14:23*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 14:23*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/06/21 14:23*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Acenaphthylene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Anthracene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Benzo[a]anthracene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Benzo[a]pyrene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Benzo[b]fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Benzo[g,h,i]perylene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Benzo[k]fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Chrysene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Dibenz(a,h)anthracene	ND			0.052	0.021	ug/L		06/30/21 09:42	07/01/21 05:04	1
Fluoranthene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Fluorene	ND			0.052	0.010	ug/L		06/30/21 09:42	07/01/21 05:04	1
Indeno[1,2,3-cd]pyrene	ND			0.052	0.021	ug/L		06/30/21 09:42	07/01/21 05:04	1
Naphthalene	ND			0.073	0.031	ug/L		06/30/21 09:42	07/01/21 05:04	1
Phenanthrene	ND			0.073	0.031	ug/L		06/30/21 09:42	07/01/21 05:04	1
Pyrene	**0.014**	**J**	UJ-RC:7	0.080	0.014	ug/L		06/30/21 09:42	07/01/21 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*42*		*10 - 110*	*06/30/21 09:42*	*07/01/21 05:04*	*1*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*	*06/30/21 09:42*	*07/01/21 05:04*	*1*
Fluoranthene-d10 (Surr)	*86*		*47 - 128*	*06/30/21 09:42*	*07/01/21 05:04*	*1*

Client Sample ID: MW-12D-20210623

Lab Sample ID: 410-45105-11

Date Collected: 06/23/21 15:46

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 14:46	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 14:46	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 14:46	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 14:46	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*07/06/21 14:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 14:46*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 14:46*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/06/21 14:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Acenaphthylene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Anthracene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Chrysene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		06/30/21 09:42	07/01/21 05:34	1
Fluoranthene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Fluorene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		06/30/21 09:42	07/01/21 05:34	1
Naphthalene	ND		0.074	0.032	ug/L		06/30/21 09:42	07/01/21 05:34	1
Phenanthrene	ND		0.074	0.032	ug/L		06/30/21 09:42	07/01/21 05:34	1
Pyrene	ND		0.053	0.011	ug/L		06/30/21 09:42	07/01/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*33*		*10 - 110*	*06/30/21 09:42*	*07/01/21 05:34*	*1*
1-Methylnaphthalene-d10 (Surr)	*64*		*36 - 111*	*06/30/21 09:42*	*07/01/21 05:34*	*1*
Fluoranthene-d10 (Surr)	*78*		*47 - 128*	*06/30/21 09:42*	*07/01/21 05:34*	*1*

Client Sample ID: MW-11S-20210623

Lab Sample ID: 410-45105-12

Date Collected: 06/23/21 16:33

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.97**	**J**	1.0	0.30	ug/L			07/06/21 15:09	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 15:09	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 15:09	1
Xylenes, Total	**0.61**	**J**	1.0	0.40	ug/L			07/06/21 15:09	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/06/21 15:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 15:09*	*1*

Client Sample ID: MW-11S-20210623

Lab Sample ID: 410-45105-12

Date Collected: 06/23/21 16:33
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*07/06/21 15:09*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/06/21 15:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.82**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Anthracene	**3.5**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Benzo[a]anthracene	**0.46**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Benzo[a]pyrene	**0.15**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Benzo[b]fluoranthene	**0.14**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Benzo[g,h,i]perylene	**0.051**	**J**	0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Benzo[k]fluoranthene	**0.052**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Chrysene	**0.34**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		06/30/21 09:42	07/01/21 06:05	1
Fluoranthene	**4.1**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Fluorene	**8.2**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1
Indeno[1,2,3-cd]pyrene	**0.058**		0.052	0.021	ug/L		06/30/21 09:42	07/01/21 06:05	1
Naphthalene	**3.0**		0.073	0.031	ug/L		06/30/21 09:42	07/01/21 06:05	1
Pyrene	**4.8**		0.052	0.010	ug/L		06/30/21 09:42	07/01/21 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*	*06/30/21 09:42*	*07/01/21 06:05*	*1*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*06/30/21 09:42*	*07/01/21 06:05*	*1*
Fluoranthene-d10 (Surr)	*95*		*47 - 128*	*06/30/21 09:42*	*07/01/21 06:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**44**		0.52	0.10	ug/L		06/30/21 09:42	07/01/21 22:57	10
Phenanthrene	**9.6**		0.73	0.31	ug/L		06/30/21 09:42	07/01/21 22:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*72*		*10 - 110*	*06/30/21 09:42*	*07/01/21 22:57*	*10*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*06/30/21 09:42*	*07/01/21 22:57*	*10*
Fluoranthene-d10 (Surr)	*83*		*47 - 128*	*06/30/21 09:42*	*07/01/21 22:57*	*10*

Client Sample ID: MW-11D-20210623

Lab Sample ID: 410-45105-13

Date Collected: 06/23/21 17:19
Matrix: Groundwater
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/06/21 15:32	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 15:32	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 15:32	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 15:32	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/06/21 15:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 15:32*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*07/06/21 15:32*	*1*

Client Sample ID: MW-11D-20210623

Date Collected: 06/23/21 17:19
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-13

Matrix: Groundwater

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/06/21 15:32*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Acenaphthylene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Anthracene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Benzo[a]anthracene	**0.015**	**J**		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Benzo[a]pyrene	**0.016**	**J**		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Benzo[b]fluoranthene	**0.024**	**J**		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Chrysene	**0.017**	**J**		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Dibenz(a,h)anthracene	ND			0.051	0.020	ug/L		06/30/21 09:42	07/01/21 06:36	1
Fluoranthene	**0.030**	**J**		0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Fluorene	ND			0.051	0.010	ug/L		06/30/21 09:42	07/01/21 06:36	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.020	ug/L		06/30/21 09:42	07/01/21 06:36	1
Naphthalene	ND			0.071	0.030	ug/L		06/30/21 09:42	07/01/21 06:36	1
Phenanthrene	**0.044**	**J**		0.071	0.030	ug/L		06/30/21 09:42	07/01/21 06:36	1
Pyrene	**0.031**	**J**	UJ-RC:7	0.080	0.031	ug/L		06/30/21 09:42	07/01/21 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*71*		*10 - 110*	*06/30/21 09:42*	*07/01/21 06:36*	*1*
1-Methylnaphthalene-d10 (Surr)	*73*		*36 - 111*	*06/30/21 09:42*	*07/01/21 06:36*	*1*
Fluoranthene-d10 (Surr)	*88*		*47 - 128*	*06/30/21 09:42*	*07/01/21 06:36*	*1*

Client Sample ID: MW-4S-20210624

Date Collected: 06/24/21 08:53
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-14

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.70**	**J**	1.0	0.30	ug/L			07/07/21 01:10	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/07/21 01:10	1
Toluene	ND		1.0	0.20	ug/L			07/07/21 01:10	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/07/21 01:10	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/07/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*07/07/21 01:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/07/21 01:10*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*07/07/21 01:10*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/07/21 01:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.60**		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Anthracene	**0.48**		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1

Client Sample ID: MW-4S-20210624

Date Collected: 06/24/21 08:53
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-14

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Chrysene	ND		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		07/01/21 18:00	07/06/21 08:29	1
Fluoranthene	**4.5**		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Fluorene	**8.8**		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		07/01/21 18:00	07/06/21 08:29	1
Naphthalene	ND		0.073	0.031	ug/L		07/01/21 18:00	07/06/21 08:29	1
Phenanthrene	**0.21**		0.073	0.031	ug/L		07/01/21 18:00	07/06/21 08:29	1
Pyrene	**4.5**		0.052	0.010	ug/L		07/01/21 18:00	07/06/21 08:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*	*07/01/21 18:00*	*07/06/21 08:29*	*1*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*07/01/21 18:00*	*07/06/21 08:29*	*1*
Fluoranthene-d10 (Surr)	*98*		*47 - 128*	*07/01/21 18:00*	*07/06/21 08:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**49**		0.52	0.10	ug/L		07/01/21 18:00	07/06/21 08:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*92*		*10 - 110*	*07/01/21 18:00*	*07/06/21 08:59*	*10*
1-Methylnaphthalene-d10 (Surr)	*95*		*36 - 111*	*07/01/21 18:00*	*07/06/21 08:59*	*10*
Fluoranthene-d10 (Surr)	*114*		*47 - 128*	*07/01/21 18:00*	*07/06/21 08:59*	*10*

Client Sample ID: MW-4D-20210624

Date Collected: 06/24/21 09:33
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-15

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/08/21 01:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/21 01:42	1
Toluene	ND		1.0	0.20	ug/L			07/08/21 01:42	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/21 01:42	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/08/21 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/08/21 01:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/08/21 01:42*	*1*
Dibromofluoromethane (Surr)	*88*		*80 - 120*		*07/08/21 01:42*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*07/08/21 01:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Acenaphthylene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Anthracene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1

Client Sample ID: MW-4D-20210624

Date Collected: 06/24/21 09:33
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-15

Matrix: Groundwater

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Chrysene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Dibenz(a,h)anthracene	ND			0.051	0.021	ug/L		07/01/21 18:00	07/06/21 09:29	1
Fluoranthene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Fluorene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:29	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.021	ug/L		07/01/21 18:00	07/06/21 09:29	1
Naphthalene	ND			0.072	0.031	ug/L		07/01/21 18:00	07/06/21 09:29	1
Phenanthrene	ND			0.072	0.031	ug/L		07/01/21 18:00	07/06/21 09:29	1
Pyrene	**0.016**	**J**	UJ-RC:7	0.080	0.016	ug/L		07/01/21 18:00	07/06/21 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*50*		*10 - 110*	*07/01/21 18:00*	*07/06/21 09:29*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*07/01/21 18:00*	*07/06/21 09:29*	*1*
Fluoranthene-d10 (Surr)	*85*		*47 - 128*	*07/01/21 18:00*	*07/06/21 09:29*	*1*

Client Sample ID: MW-3-20210624

Date Collected: 06/24/21 10:14
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-16

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.60**	**J**	1.0	0.30	ug/L			07/08/21 02:05	1
Ethylbenzene	**2.8**		1.0	0.40	ug/L			07/08/21 02:05	1
Toluene	**0.88**	**J**	1.0	0.20	ug/L			07/08/21 02:05	1
Xylenes, Total	**4.1**		1.0	0.40	ug/L			07/08/21 02:05	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/08/21 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*07/08/21 02:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/08/21 02:05*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/08/21 02:05*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/08/21 02:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**4.1**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Anthracene	**1.1**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Benzo[a]anthracene	**1.2**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Benzo[a]pyrene	**0.024**	**J**	0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Benzo[b]fluoranthene	**0.017**	**J**	0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Chrysene	**0.74**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Dibenz(a,h)anthracene	**0.030**	**J**	0.051	0.021	ug/L		07/01/21 18:00	07/06/21 09:59	1
Fluorene	**5.9**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 09:59	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		07/01/21 18:00	07/06/21 09:59	1
Phenanthrene	**6.5**		0.072	0.031	ug/L		07/01/21 18:00	07/06/21 09:59	1

Client Sample ID: MW-3-20210624

Lab Sample ID: 410-45105-16

Date Collected: 06/24/21 10:14

Matrix: Groundwater

Date Received: 06/25/21 19:14

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*07/01/21 18:00*	*07/06/21 09:59*	*1*
1-Methylnaphthalene-d10 (Surr)	*70*		*36 - 111*	*07/01/21 18:00*	*07/06/21 09:59*	*1*
Fluoranthene-d10 (Surr)	*104*		*47 - 128*	*07/01/21 18:00*	*07/06/21 09:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**37**		0.51	0.10	ug/L		07/01/21 18:00	07/06/21 10:29	10
Fluoranthene	**13**		0.51	0.10	ug/L		07/01/21 18:00	07/06/21 10:29	10
Naphthalene	**91**		0.72	0.31	ug/L		07/01/21 18:00	07/06/21 10:29	10
Pyrene	**16**		0.51	0.10	ug/L		07/01/21 18:00	07/06/21 10:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*87*		*10 - 110*	*07/01/21 18:00*	*07/06/21 10:29*	*10*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*07/01/21 18:00*	*07/06/21 10:29*	*10*
Fluoranthene-d10 (Surr)	*101*		*47 - 128*	*07/01/21 18:00*	*07/06/21 10:29*	*10*

Client Sample ID: MW-13S-20210624

Lab Sample ID: 410-45105-17

Date Collected: 06/24/21 10:53

Matrix: Groundwater

Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	1.5	ug/L			07/08/21 05:10	5
Ethylbenzene	**3.0**	**J**	5.0	2.0	ug/L			07/08/21 05:10	5
Toluene	ND		5.0	1.0	ug/L			07/08/21 05:10	5
Xylenes, Total	**2.3**	**J**	5.0	2.0	ug/L			07/08/21 05:10	5
Methyl tertiary butyl ether	ND		5.0	1.0	ug/L			07/08/21 05:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/08/21 05:10*	*5*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/08/21 05:10*	*5*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/08/21 05:10*	*5*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/08/21 05:10*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**1.7**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Anthracene	**8.7**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Benzo[a]anthracene	**1.4**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Benzo[a]pyrene	**0.091**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Benzo[b]fluoranthene	**0.098**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Benzo[k]fluoranthene	**0.032**	**J**	0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Chrysene	**1.1**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		07/01/21 18:00	07/06/21 10:59	1
Fluoranthene	**8.1**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		07/01/21 18:00	07/06/21 10:59	1
Pyrene	**7.9**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*71*		*10 - 110*	*07/01/21 18:00*	*07/06/21 10:59*	*1*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*	*07/01/21 18:00*	*07/06/21 10:59*	*1*

Client Sample ID: MW-13S-20210624

Date Collected: 06/24/21 10:53
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-17
Matrix: Groundwater

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluoranthene-d10 (Surr)	*102*		*47 - 128*	*07/01/21 18:00*	*07/06/21 10:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**58**		1.0	0.20	ug/L		07/01/21 18:00	07/06/21 11:29	20
Fluorene	**23**		1.0	0.20	ug/L		07/01/21 18:00	07/06/21 11:29	20
Naphthalene	**130**		1.4	0.61	ug/L		07/01/21 18:00	07/06/21 11:29	20
Phenanthrene	**44**		1.4	0.61	ug/L		07/01/21 18:00	07/06/21 11:29	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 110*	*07/01/21 18:00*	*07/06/21 11:29*	*20*
1-Methylnaphthalene-d10 (Surr)	*83*		*36 - 111*	*07/01/21 18:00*	*07/06/21 11:29*	*20*
Fluoranthene-d10 (Surr)	*109*		*47 - 128*	*07/01/21 18:00*	*07/06/21 11:29*	*20*

Client Sample ID: MW-13D-20210624

Date Collected: 06/24/21 11:29
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-18
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/08/21 02:28	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/21 02:28	1
Toluene	ND		1.0	0.20	ug/L			07/08/21 02:28	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/21 02:28	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/08/21 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*07/08/21 02:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/08/21 02:28*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/08/21 02:28*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/08/21 02:28*	*1*

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Acenaphthylene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Anthracene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Benzo[a]anthracene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Benzo[a]pyrene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Benzo[b]fluoranthene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Chrysene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Dibenz(a,h)anthracene	ND			0.051	0.020	ug/L		07/01/21 18:00	07/06/21 11:59	1
Fluoranthene	**0.011**	**J**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Fluorene	ND			0.051	0.010	ug/L		07/01/21 18:00	07/06/21 11:59	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.020	ug/L		07/01/21 18:00	07/06/21 11:59	1
Naphthalene	**0.031**	**J**		0.071	0.031	ug/L		07/01/21 18:00	07/06/21 11:59	1
Phenanthrene	ND			0.071	0.031	ug/L		07/01/21 18:00	07/06/21 11:59	1
Pyrene	**0.014**	**J**	UJ-RC:7	0.080	0.014	ug/L		07/01/21 18:00	07/06/21 11:59	1

Client Sample ID: MW-13D-20210624

Lab Sample ID: 410-45105-18

Date Collected: 06/24/21 11:29
Matrix: Groundwater
Date Received: 06/25/21 19:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*90*		*10 - 110*	*07/01/21 18:00*	*07/06/21 11:59*	*1*
1-Methylnaphthalene-d10 (Surr)	*87*		*36 - 111*	*07/01/21 18:00*	*07/06/21 11:59*	*1*
Fluoranthene-d10 (Surr)	*92*		*47 - 128*	*07/01/21 18:00*	*07/06/21 11:59*	*1*

Client Sample ID: FB-20210624

Lab Sample ID: 410-45105-19

Date Collected: 06/24/21 09:15
Matrix: Water
Date Received: 06/25/21 19:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/07/21 23:46	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/07/21 23:46	1
Toluene	ND		1.0	0.20	ug/L			07/07/21 23:46	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/07/21 23:46	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/07/21 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/07/21 23:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/07/21 23:46*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/07/21 23:46*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/07/21 23:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Acenaphthylene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Anthracene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Chrysene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		07/01/21 18:00	07/06/21 12:28	1
Fluoranthene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Fluorene	ND		0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		07/01/21 18:00	07/06/21 12:28	1
Naphthalene	ND		0.074	0.032	ug/L		07/01/21 18:00	07/06/21 12:28	1
Phenanthrene	ND		0.074	0.032	ug/L		07/01/21 18:00	07/06/21 12:28	1
Pyrene	**0.016**	**J**	0.053	0.011	ug/L		07/01/21 18:00	07/06/21 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 110*	*07/01/21 18:00*	*07/06/21 12:28*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*	*07/01/21 18:00*	*07/06/21 12:28*	*1*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*	*07/01/21 18:00*	*07/06/21 12:28*	*1*

Client Sample ID: DUP-20210624

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-20
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.55**	**J**	1.0	0.30	ug/L			07/08/21 02:52	1
Ethylbenzene	**2.7**		1.0	0.40	ug/L			07/08/21 02:52	1
Toluene	**0.90**	**J**	1.0	0.20	ug/L			07/08/21 02:52	1
Xylenes, Total	**4.1**		1.0	0.40	ug/L			07/08/21 02:52	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/08/21 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/08/21 02:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/08/21 02:52*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/08/21 02:52*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/08/21 02:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**4.3**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Anthracene	**1.2**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Benzo[a]anthracene	**1.2**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Benzo[b]fluoranthene	**0.019**	**J**	0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Chrysene	**0.71**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Dibenz(a,h)anthracene	ND		0.051	0.021	ug/L		07/01/21 18:00	07/06/21 12:58	1
Fluorene	**6.6**		0.051	0.010	ug/L		07/01/21 18:00	07/06/21 12:58	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		07/01/21 18:00	07/06/21 12:58	1
Phenanthrene	**6.0**		0.072	0.031	ug/L		07/01/21 18:00	07/06/21 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 110*	*07/01/21 18:00*	*07/06/21 12:58*	*1*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*07/01/21 18:00*	*07/06/21 12:58*	*1*
Fluoranthene-d10 (Surr)	*117*		*47 - 128*	*07/01/21 18:00*	*07/06/21 12:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**36**		0.51	0.10	ug/L		07/01/21 18:00	07/06/21 13:28	10
Fluoranthene	**12**		0.51	0.10	ug/L		07/01/21 18:00	07/06/21 13:28	10
Naphthalene	**91**		0.72	0.31	ug/L		07/01/21 18:00	07/06/21 13:28	10
Pyrene	**15**		0.51	0.10	ug/L		07/01/21 18:00	07/06/21 13:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 110*	*07/01/21 18:00*	*07/06/21 13:28*	*10*
1-Methylnaphthalene-d10 (Surr)	*87*		*36 - 111*	*07/01/21 18:00*	*07/06/21 13:28*	*10*
Fluoranthene-d10 (Surr)	*101*		*47 - 128*	*07/01/21 18:00*	*07/06/21 13:28*	*10*

Client Sample ID: Trip-Blank

Date Collected: 06/22/21 00:00
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			07/02/21 11:49	1

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Client Sample ID: Trip-Blank

Date Collected: 06/22/21 00:00
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.40	ug/L			07/02/21 11:49	1
Toluene	ND		1.0	0.20	ug/L			07/02/21 11:49	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/02/21 11:49	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/02/21 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/02/21 11:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/02/21 11:49*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/02/21 11:49*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/02/21 11:49*	*1*

Surrogate Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-45105-1	MW-1-20210622	101	98	90	108
410-45105-2	MW-10S-20210622	102	97	89	108
410-45105-3	MW-10D-20210622	103	97	89	108
410-45105-4	MW-8S-20210623	100	96	89	106
410-45105-5	MW-8D-20210623	103	97	90	108
410-45105-5 MS	MW-8D-20210623	100	97	90	107
410-45105-5 MSD	MW-8D-20210623	97	98	91	107
410-45105-6	MW-7S-20210623	103	97	90	108
410-45105-7	MW-7D-20210623	99	96	90	106
410-45105-8	MW-14S-20210623	102	96	90	106
410-45105-9	MW-14D-20210623	104	96	93	107
410-45105-10	MW-12S-20210623	99	96	90	107
410-45105-11	MW-12D-20210623	98	96	90	106
410-45105-12	MW-11S-20210623	100	96	92	106
410-45105-13	MW-11D-20210623	103	96	91	107
410-45105-14	MW-4S-20210624	105	95	92	106
410-45105-15	MW-4D-20210624	100	96	88	105
410-45105-16	MW-3-20210624	101	99	89	106
410-45105-17	MW-13S-20210624	103	98	90	106
410-45105-18	MW-13D-20210624	99	96	90	106
410-45105-20	DUP-20210624	102	98	89	107

Surrogate Legend

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

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	(80-120)	(80-120)	(80-120)	(80-120)
410-45105-19	FB-20210624	102	97	90	107
410-45105-21	Trip-Blank	102	95	89	107
LCS 410-144661/5	Lab Control Sample	102	96	91	108
LCS 410-145203/5	Lab Control Sample	101	97	91	107
LCS 410-145456/4	Lab Control Sample	101	97	91	107
LCS 410-145954/4	Lab Control Sample	102	97	90	107
MB 410-144661/7	Method Blank	100	95	88	107
MB 410-145203/7	Method Blank	101	96	90	107
MB 410-145456/6	Method Blank	102	96	91	106
MB 410-145954/6	Method Blank	102	98	89	107

Surrogate Legend

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

Surrogate Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BAPd12 (10-110)	MNPd10 (36-111)	FLN10 (47-128)
410-45105-1	MW-1-20210622	69	73	73
410-45105-2	MW-10S-20210622	74	77	80
410-45105-3	MW-10D-20210622	72	76	84
410-45105-4	MW-8S-20210623	79	88	88
410-45105-5	MW-8D-20210623	63	55	84
410-45105-5 MS	MW-8D-20210623	88	72	88
410-45105-5 MSD	MW-8D-20210623	78	67	86
410-45105-6	MW-7S-20210623	66	72	84
410-45105-7	MW-7D-20210623	68	76	87
410-45105-8	MW-14S-20210623	69	75	89
410-45105-9	MW-14D-20210623	37	71	85
410-45105-10	MW-12S-20210623	42	74	86
410-45105-11	MW-12D-20210623	33	64	78
410-45105-12	MW-11S-20210623	78	79	95
410-45105-12 - DL	MW-11S-20210623	72	75	83
410-45105-13	MW-11D-20210623	71	73	88
410-45105-14	MW-4S-20210624	78	79	98
410-45105-14 - DL	MW-4S-20210624	92	95	114
410-45105-15	MW-4D-20210624	50	76	85
410-45105-16 - DL	MW-3-20210624	87	81	101
410-45105-16	MW-3-20210624	76	70	104
410-45105-17	MW-13S-20210624	71	74	102
410-45105-17 - DL	MW-13S-20210624	73	83	109
410-45105-18	MW-13D-20210624	90	87	92
410-45105-20	DUP-20210624	82	81	117
410-45105-20 - DL	DUP-20210624	86	87	101

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BAPd12 (10-110)	MNPd10 (36-111)	FLN10 (47-128)
410-45105-19	FB-20210624	82	76	87
LCS 410-143125/2-A	Lab Control Sample	83	65	90
LCS 410-143664/2-A	Lab Control Sample	86	88	91
LCS 410-143667/2-A	Lab Control Sample	79	74	86
LCS 410-143956/2-A	Lab Control Sample	87	77	89
LCS 410-144459/2-A	Lab Control Sample	83	74	82
MB 410-143125/1-A	Method Blank	1 S1-	0.6 S1-	1 S1-
MB 410-143664/1-A	Method Blank	79	82	87
MB 410-143667/1-A	Method Blank	76	74	89
MB 410-143956/1-A	Method Blank	76	68	73
MB 410-144459/1-A	Method Blank	80	72	80

Surrogate Legend

Surrogate Summary

Client: Brown and Caldwell
Job ID: 410-45105-1
Project/Site: Patchogue, NY

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

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

Lab Sample ID: MB 410-144661/7
Matrix: Water
Analysis Batch: 144661

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	0.30	ug/L			07/02/21 10:39	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/02/21 10:39	1
Toluene	ND		1.0	0.20	ug/L			07/02/21 10:39	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/02/21 10:39	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/02/21 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/02/21 10:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/02/21 10:39*	*1*
Dibromofluoromethane (Surr)	*88*		*80 - 120*		*07/02/21 10:39*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/02/21 10:39*	*1*

Lab Sample ID: LCS 410-144661/5
Matrix: Water
Analysis Batch: 144661

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	20.5		ug/L		103	80 - 120		
Ethylbenzene			20.0	20.7		ug/L		104	80 - 120		
Toluene			20.0	21.4		ug/L		107	80 - 120		
Xylenes, Total			60.0	61.4		ug/L		102	80 - 120		
Methyl tertiary butyl ether			20.0	18.7		ug/L		93	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: MB 410-145203/7
Matrix: Water
Analysis Batch: 145203

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	0.30	ug/L			07/06/21 10:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 10:33	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 10:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 10:33	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*07/06/21 10:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 10:33*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*07/06/21 10:33*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/06/21 10:33*	*1*

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

Lab Sample ID: LCS 410-145203/5
Matrix: Water
Analysis Batch: 145203

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	21.1		ug/L		105	80 - 120		
Ethylbenzene			20.0	21.1		ug/L		106	80 - 120		
Toluene			20.0	21.5		ug/L		108	80 - 120		
Xylenes, Total			60.0	61.8		ug/L		103	80 - 120		
Methyl tertiary butyl ether			20.0	18.6		ug/L		93	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: 410-45105-5 MS
Matrix: Groundwater
Analysis Batch: 145203

Client Sample ID: MW-8D-20210623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		20.0	22.3		ug/L		111	80 - 120		
Ethylbenzene	ND		20.0	22.2		ug/L		111	80 - 120		
Toluene	ND		20.0	22.7		ug/L		114	80 - 120		
Xylenes, Total	ND		60.0	65.1		ug/L		109	80 - 120		
Methyl tertiary butyl ether	ND		20.0	18.4		ug/L		92	69 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: 410-45105-5 MSD
Matrix: Groundwater
Analysis Batch: 145203

Client Sample ID: MW-8D-20210623
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		20.0	22.2		ug/L		111	80 - 120	0	30
Ethylbenzene	ND		20.0	22.3		ug/L		111	80 - 120	0	30
Toluene	ND		20.0	22.9		ug/L		115	80 - 120	1	30
Xylenes, Total	ND		60.0	65.5		ug/L		109	80 - 120	1	30
Methyl tertiary butyl ether	ND		20.0	18.7		ug/L		94	69 - 122	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

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

Lab Sample ID: MB 410-145456/6
Matrix: Water
Analysis Batch: 145456

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	0.30	ug/L			07/06/21 21:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/06/21 21:58	1
Toluene	ND		1.0	0.20	ug/L			07/06/21 21:58	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/06/21 21:58	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/06/21 21:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/06/21 21:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 21:58*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*07/06/21 21:58*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/06/21 21:58*	*1*

Lab Sample ID: LCS 410-145456/4
Matrix: Water
Analysis Batch: 145456

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	19.4		ug/L		97	80 - 120		
Ethylbenzene			20.0	18.9		ug/L		95	80 - 120		
Toluene			20.0	19.4		ug/L		97	80 - 120		
Xylenes, Total			60.0	56.6		ug/L		94	80 - 120		
Methyl tertiary butyl ether			20.0	18.2		ug/L		91	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 410-145954/6
Matrix: Water
Analysis Batch: 145954

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	0.30	ug/L			07/07/21 22:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/07/21 22:07	1
Toluene	ND		1.0	0.20	ug/L			07/07/21 22:07	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/07/21 22:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			07/07/21 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/07/21 22:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/07/21 22:07*	*1*
Dibromofluoromethane (Surr)	*89*		*80 - 120*		*07/07/21 22:07*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/07/21 22:07*	*1*

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

Lab Sample ID: LCS 410-145954/4
Matrix: Water
Analysis Batch: 145954

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.9		ug/L		99	80 - 120
Ethylbenzene	20.0	19.6		ug/L		98	80 - 120
Toluene	20.0	20.1		ug/L		100	80 - 120
Xylenes, Total	60.0	58.2		ug/L		97	80 - 120
Methyl tertiary butyl ether	20.0	18.3		ug/L		91	69 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

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

Lab Sample ID: MB 410-143125/1-A
Matrix: Water
Analysis Batch: 143507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Anthracene	ND		0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Benzo[a]anthracene	0.0116	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Benzo[a]pyrene	0.0117	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Benzo[b]fluoranthene	0.0133	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Benzo[g,h,i]perylene	0.0107	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Benzo[k]fluoranthene	0.0140	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Chrysene	0.0177	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/29/21 09:35	06/29/21 20:50	1
Fluoranthene	ND		0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Fluorene	ND		0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/29/21 09:35	06/29/21 20:50	1
Naphthalene	ND		0.070	0.030	ug/L		06/29/21 09:35	06/29/21 20:50	1
Phenanthrene	ND		0.070	0.030	ug/L		06/29/21 09:35	06/29/21 20:50	1
Pyrene	0.0101	J	0.050	0.010	ug/L		06/29/21 09:35	06/29/21 20:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*1*	*S1-*	*10 - 110*	*06/29/21 09:35*	*06/29/21 20:50*	*1*
1-Methylnaphthalene-d10 (Surr)	*0.6*	*S1-*	*36 - 111*	*06/29/21 09:35*	*06/29/21 20:50*	*1*
Fluoranthene-d10 (Surr)	*1*	*S1-*	*47 - 128*	*06/29/21 09:35*	*06/29/21 20:50*	*1*

Lab Sample ID: LCS 410-143125/2-A
Matrix: Water
Analysis Batch: 143507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.00	0.802		ug/L		80	42 - 120
Acenaphthylene	1.00	0.826		ug/L		83	49 - 120

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

Lab Sample ID: LCS 410-143125/2-A
Matrix: Water
Analysis Batch: 143507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.00	0.938		ug/L		94	54 - 121
Benzo[a]anthracene	1.00	0.895		ug/L		90	61 - 122
Benzo[a]pyrene	1.00	0.954		ug/L		95	60 - 120
Benzo[b]fluoranthene	1.00	0.962		ug/L		96	58 - 122
Benzo[g,h,i]perylene	1.00	0.897		ug/L		90	50 - 120
Benzo[k]fluoranthene	1.00	0.900		ug/L		90	57 - 128
Chrysene	1.00	0.878		ug/L		88	55 - 123
Dibenz(a,h)anthracene	1.00	0.939		ug/L		94	50 - 121
Fluoranthene	1.00	0.917		ug/L		92	61 - 123
Fluorene	1.00	0.851		ug/L		85	55 - 120
Indeno[1,2,3-cd]pyrene	1.00	1.03		ug/L		103	47 - 143
Naphthalene	1.00	0.650		ug/L		65	20 - 120
Phenanthrene	1.00	0.887		ug/L		89	59 - 120
Pyrene	1.00	0.868		ug/L		87	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*83*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*65*		*36 - 111*
Fluoranthene-d10 (Surr)	*90*		*47 - 128*

Lab Sample ID: MB 410-143664/1-A
Matrix: Water
Analysis Batch: 143979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Anthracene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Benzo[a]anthracene	0.0130	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Benzo[a]pyrene	0.0136	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Benzo[b]fluoranthene	0.0172	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Benzo[g,h,i]perylene	0.0261	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Benzo[k]fluoranthene	0.0170	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Chrysene	0.0159	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Dibenz(a,h)anthracene	0.0454	J	0.050	0.020	ug/L		06/30/21 09:42	06/30/21 20:12	1
Fluoranthene	0.0104	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Fluorene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1
Indeno[1,2,3-cd]pyrene	0.0215	J	0.050	0.020	ug/L		06/30/21 09:42	06/30/21 20:12	1
Naphthalene	ND		0.070	0.030	ug/L		06/30/21 09:42	06/30/21 20:12	1
Phenanthrene	ND		0.070	0.030	ug/L		06/30/21 09:42	06/30/21 20:12	1
Pyrene	0.0120	J	0.050	0.010	ug/L		06/30/21 09:42	06/30/21 20:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*79*		*10 - 110*	*06/30/21 09:42*	*06/30/21 20:12*	*1*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*	*06/30/21 09:42*	*06/30/21 20:12*	*1*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*	*06/30/21 09:42*	*06/30/21 20:12*	*1*

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

Lab Sample ID: LCS 410-143664/2-A
Matrix: Water
Analysis Batch: 143979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.00	0.921		ug/L		92	42 - 120
Acenaphthylene	1.00	0.912		ug/L		91	49 - 120
Anthracene	1.00	1.01		ug/L		101	54 - 121
Benzo[a]anthracene	1.00	0.961		ug/L		96	61 - 122
Benzo[a]pyrene	1.00	1.11		ug/L		111	60 - 120
Benzo[b]fluoranthene	1.00	0.981		ug/L		98	58 - 122
Benzo[g,h,i]perylene	1.00	1.21	*+	ug/L		121	50 - 120
Benzo[k]fluoranthene	1.00	1.04		ug/L		104	57 - 128
Chrysene	1.00	1.01		ug/L		101	55 - 123
Dibenz(a,h)anthracene	1.00	1.13		ug/L		113	50 - 121
Fluoranthene	1.00	0.987		ug/L		99	61 - 123
Fluorene	1.00	0.929		ug/L		93	55 - 120
Indeno[1,2,3-cd]pyrene	1.00	1.24		ug/L		124	47 - 143
Naphthalene	1.00	0.850		ug/L		85	20 - 120
Phenanthrene	1.00	0.944		ug/L		94	59 - 120
Pyrene	1.00	0.950		ug/L		95	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*88*		*36 - 111*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*

Lab Sample ID: MB 410-143667/1-A
Matrix: Water
Analysis Batch: 143973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Anthracene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Chrysene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/30/21 09:42	06/30/21 21:54	1
Fluoranthene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Fluorene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/30/21 09:42	06/30/21 21:54	1
Naphthalene	ND		0.070	0.030	ug/L		06/30/21 09:42	06/30/21 21:54	1
Phenanthrene	ND		0.070	0.030	ug/L		06/30/21 09:42	06/30/21 21:54	1
Pyrene	ND		0.050	0.010	ug/L		06/30/21 09:42	06/30/21 21:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*06/30/21 09:42*	*06/30/21 21:54*	*1*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*	*06/30/21 09:42*	*06/30/21 21:54*	*1*
Fluoranthene-d10 (Surr)	*89*		*47 - 128*	*06/30/21 09:42*	*06/30/21 21:54*	*1*

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

Lab Sample ID: LCS 410-143667/2-A
Matrix: Water
Analysis Batch: 143973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.00	0.829		ug/L		83	42 - 120
Acenaphthylene	1.00	0.828		ug/L		83	49 - 120
Anthracene	1.00	0.910		ug/L		91	54 - 121
Benzo[a]anthracene	1.00	0.876		ug/L		88	61 - 122
Benzo[a]pyrene	1.00	0.913		ug/L		91	60 - 120
Benzo[b]fluoranthene	1.00	0.921		ug/L		92	58 - 122
Benzo[g,h,i]perylene	1.00	0.934		ug/L		93	50 - 120
Benzo[k]fluoranthene	1.00	0.873		ug/L		87	57 - 128
Chrysene	1.00	0.850		ug/L		85	55 - 123
Dibenz(a,h)anthracene	1.00	1.01		ug/L		101	50 - 121
Fluoranthene	1.00	0.853		ug/L		85	61 - 123
Fluorene	1.00	0.852		ug/L		85	55 - 120
Indeno[1,2,3-cd]pyrene	1.00	1.17		ug/L		117	47 - 143
Naphthalene	1.00	0.762		ug/L		76	20 - 120
Phenanthrene	1.00	0.862		ug/L		86	59 - 120
Pyrene	1.00	0.885		ug/L		88	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*79*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*
Fluoranthene-d10 (Surr)	*86*		*47 - 128*

Lab Sample ID: MB 410-143956/1-A
Matrix: Water
Analysis Batch: 144210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Anthracene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Chrysene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/30/21 17:15	07/01/21 10:08	1
Fluoranthene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Fluorene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/30/21 17:15	07/01/21 10:08	1
Naphthalene	ND		0.070	0.030	ug/L		06/30/21 17:15	07/01/21 10:08	1
Phenanthrene	ND		0.070	0.030	ug/L		06/30/21 17:15	07/01/21 10:08	1
Pyrene	ND		0.050	0.010	ug/L		06/30/21 17:15	07/01/21 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*06/30/21 17:15*	*07/01/21 10:08*	*1*
1-Methylnaphthalene-d10 (Surr)	*68*		*36 - 111*	*06/30/21 17:15*	*07/01/21 10:08*	*1*
Fluoranthene-d10 (Surr)	*73*		*47 - 128*	*06/30/21 17:15*	*07/01/21 10:08*	*1*

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

Lab Sample ID: LCS 410-143956/2-A
Matrix: Water
Analysis Batch: 144210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.00	0.836		ug/L		84	42 - 120
Acenaphthylene	1.00	0.826		ug/L		83	49 - 120
Anthracene	1.00	0.978		ug/L		98	54 - 121
Benzo[a]anthracene	1.00	0.938		ug/L		94	61 - 122
Benzo[a]pyrene	1.00	1.05		ug/L		105	60 - 120
Benzo[b]fluoranthene	1.00	0.914		ug/L		91	58 - 122
Benzo[g,h,i]perylene	1.00	1.17		ug/L		117	50 - 120
Benzo[k]fluoranthene	1.00	1.03		ug/L		103	57 - 128
Chrysene	1.00	1.01		ug/L		101	55 - 123
Dibenz(a,h)anthracene	1.00	1.08		ug/L		108	50 - 121
Fluoranthene	1.00	0.946		ug/L		95	61 - 123
Fluorene	1.00	0.858		ug/L		86	55 - 120
Indeno[1,2,3-cd]pyrene	1.00	1.20		ug/L		120	47 - 143
Naphthalene	1.00	0.803		ug/L		80	20 - 120
Phenanthrene	1.00	0.908		ug/L		91	59 - 120
Pyrene	1.00	0.967		ug/L		97	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*87*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*77*		*36 - 111*
Fluoranthene-d10 (Surr)	*89*		*47 - 128*

Lab Sample ID: 410-45105-5 MS
Matrix: Groundwater
Analysis Batch: 144775

Client Sample ID: MW-8D-20210623
Prep Type: Total/NA
Prep Batch: 143956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		1.03	0.890		ug/L		87	42 - 120
Acenaphthylene	ND		1.03	0.912		ug/L		89	49 - 120
Anthracene	ND		1.03	0.913		ug/L		89	54 - 121
Benzo[a]anthracene	ND		1.03	1.06		ug/L		103	61 - 122
Benzo[a]pyrene	ND		1.03	1.04		ug/L		101	60 - 120
Benzo[b]fluoranthene	ND		1.03	1.07		ug/L		104	58 - 122
Benzo[g,h,i]perylene	ND		1.03	0.897		ug/L		87	50 - 120
Benzo[k]fluoranthene	ND		1.03	0.972		ug/L		95	57 - 128
Chrysene	ND		1.03	0.979		ug/L		95	55 - 123
Dibenz(a,h)anthracene	ND		1.03	1.02		ug/L		99	50 - 121
Fluoranthene	ND		1.03	0.931		ug/L		91	61 - 123
Fluorene	ND		1.03	0.934		ug/L		91	55 - 120
Indeno[1,2,3-cd]pyrene	ND		1.03	1.13		ug/L		110	47 - 143
Naphthalene	ND		1.03	0.795		ug/L		78	20 - 120
Phenanthrene	ND		1.03	0.968		ug/L		94	59 - 120
Pyrene	ND		1.03	0.943		ug/L		92	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*88*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*72*		*36 - 111*
Fluoranthene-d10 (Surr)	*88*		*47 - 128*

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

Lab Sample ID: 410-45105-5 MSD
Matrix: Groundwater
Analysis Batch: 144775

Client Sample ID: MW-8D-20210623
Prep Type: Total/NA
Prep Batch: 143956

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.04	0.782		ug/L		75	42 - 120	13	30
Acenaphthylene	ND		1.04	0.809		ug/L		78	49 - 120	12	30
Anthracene	ND		1.04	0.913		ug/L		88	54 - 121	0	30
Benzo[a]anthracene	ND		1.04	0.939		ug/L		90	61 - 122	12	30
Benzo[a]pyrene	ND		1.04	0.932		ug/L		89	60 - 120	11	30
Benzo[b]fluoranthene	ND		1.04	0.954		ug/L		92	58 - 122	11	30
Benzo[g,h,i]perylene	ND		1.04	0.757		ug/L		73	50 - 120	17	30
Benzo[k]fluoranthene	ND		1.04	0.887		ug/L		85	57 - 128	9	30
Chrysene	ND		1.04	0.889		ug/L		85	55 - 123	10	30
Dibenz(a,h)anthracene	ND		1.04	0.885		ug/L		85	50 - 121	14	30
Fluoranthene	ND		1.04	0.932		ug/L		90	61 - 123	0	30
Fluorene	ND		1.04	0.839		ug/L		81	55 - 120	11	30
Indeno[1,2,3-cd]pyrene	ND		1.04	0.961		ug/L		92	47 - 143	16	30
Naphthalene	ND		1.04	0.719		ug/L		69	20 - 120	10	30
Phenanthrene	ND		1.04	0.906		ug/L		87	59 - 120	7	30
Pyrene	ND		1.04	0.874		ug/L		84	46 - 122	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*67*		*36 - 111*
Fluoranthene-d10 (Surr)	*86*		*47 - 128*

Lab Sample ID: MB 410-144459/1-A
Matrix: Water
Analysis Batch: 145058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Acenaphthylene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Anthracene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Chrysene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		07/01/21 18:00	07/05/21 09:18	1
Fluoranthene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Fluorene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		07/01/21 18:00	07/05/21 09:18	1
Naphthalene	ND		0.070	0.030	ug/L		07/01/21 18:00	07/05/21 09:18	1
Phenanthrene	ND		0.070	0.030	ug/L		07/01/21 18:00	07/05/21 09:18	1
Pyrene	ND		0.050	0.010	ug/L		07/01/21 18:00	07/05/21 09:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*80*		*10 - 110*	*07/01/21 18:00*	*07/05/21 09:18*	*1*
1-Methylnaphthalene-d10 (Surr)	*72*		*36 - 111*	*07/01/21 18:00*	*07/05/21 09:18*	*1*
Fluoranthene-d10 (Surr)	*80*		*47 - 128*	*07/01/21 18:00*	*07/05/21 09:18*	*1*

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

Lab Sample ID: LCS 410-144459/2-A
Matrix: Water
Analysis Batch: 145058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144459

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.777		ug/L		78	42 - 120		
Acenaphthylene			1.00	0.794		ug/L		79	49 - 120		
Anthracene			1.00	0.915		ug/L		91	54 - 121		
Benzo[a]anthracene			1.00	0.881		ug/L		88	61 - 122		
Benzo[a]pyrene			1.00	0.998		ug/L		100	60 - 120		
Benzo[b]fluoranthene			1.00	0.906		ug/L		91	58 - 122		
Benzo[g,h,i]perylene			1.00	1.11		ug/L		111	50 - 120		
Benzo[k]fluoranthene			1.00	0.969		ug/L		97	57 - 128		
Chrysene			1.00	0.957		ug/L		96	55 - 123		
Dibenz(a,h)anthracene			1.00	0.996		ug/L		100	50 - 121		
Fluoranthene			1.00	0.889		ug/L		89	61 - 123		
Fluorene			1.00	0.786		ug/L		79	55 - 120		
Indeno[1,2,3-cd]pyrene			1.00	1.19		ug/L		119	47 - 143		
Naphthalene			1.00	0.683		ug/L		68	20 - 120		
Phenanthrene			1.00	0.835		ug/L		83	59 - 120		
Pyrene			1.00	0.850		ug/L		85	46 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*83*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*74*		*36 - 111*
Fluoranthene-d10 (Surr)	*82*		*47 - 128*

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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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: 144661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-1	MW-1-20210622	Total/NA	Groundwater	8260C	
410-45105-2	MW-10S-20210622	Total/NA	Groundwater	8260C	
410-45105-3	MW-10D-20210622	Total/NA	Groundwater	8260C	
410-45105-21	Trip-Blank	Total/NA	Water	8260C	
MB 410-144661/7	Method Blank	Total/NA	Water	8260C	
LCS 410-144661/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 145203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-4	MW-8S-20210623	Total/NA	Groundwater	8260C	
410-45105-5	MW-8D-20210623	Total/NA	Groundwater	8260C	
410-45105-6	MW-7S-20210623	Total/NA	Groundwater	8260C	
410-45105-7	MW-7D-20210623	Total/NA	Groundwater	8260C	
410-45105-8	MW-14S-20210623	Total/NA	Groundwater	8260C	
410-45105-9	MW-14D-20210623	Total/NA	Groundwater	8260C	
410-45105-10	MW-12S-20210623	Total/NA	Groundwater	8260C	
410-45105-11	MW-12D-20210623	Total/NA	Groundwater	8260C	
410-45105-12	MW-11S-20210623	Total/NA	Groundwater	8260C	
410-45105-13	MW-11D-20210623	Total/NA	Groundwater	8260C	
MB 410-145203/7	Method Blank	Total/NA	Water	8260C	
LCS 410-145203/5	Lab Control Sample	Total/NA	Water	8260C	
410-45105-5 MS	MW-8D-20210623	Total/NA	Groundwater	8260C	
410-45105-5 MSD	MW-8D-20210623	Total/NA	Groundwater	8260C	

Analysis Batch: 145456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-14	MW-4S-20210624	Total/NA	Groundwater	8260C	
MB 410-145456/6	Method Blank	Total/NA	Water	8260C	
LCS 410-145456/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 145954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-15	MW-4D-20210624	Total/NA	Groundwater	8260C	
410-45105-16	MW-3-20210624	Total/NA	Groundwater	8260C	
410-45105-17	MW-13S-20210624	Total/NA	Groundwater	8260C	
410-45105-18	MW-13D-20210624	Total/NA	Groundwater	8260C	
410-45105-19	FB-20210624	Total/NA	Water	8260C	
410-45105-20	DUP-20210624	Total/NA	Groundwater	8260C	
MB 410-145954/6	Method Blank	Total/NA	Water	8260C	
LCS 410-145954/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 143125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-1	MW-1-20210622	Total/NA	Groundwater	3510C	
410-45105-2	MW-10S-20210622	Total/NA	Groundwater	3510C	
410-45105-3	MW-10D-20210622	Total/NA	Groundwater	3510C	
MB 410-143125/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-143125/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 143507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-143125/1-A	Method Blank	Total/NA	Water	8270D SIM	143125
LCS 410-143125/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	143125

Prep Batch: 143664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-4	MW-8S-20210623	Total/NA	Groundwater	3510C	
MB 410-143664/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-143664/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 143667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-6	MW-7S-20210623	Total/NA	Groundwater	3510C	
410-45105-7	MW-7D-20210623	Total/NA	Groundwater	3510C	
410-45105-8	MW-14S-20210623	Total/NA	Groundwater	3510C	
410-45105-9	MW-14D-20210623	Total/NA	Groundwater	3510C	
410-45105-10	MW-12S-20210623	Total/NA	Groundwater	3510C	
410-45105-11	MW-12D-20210623	Total/NA	Groundwater	3510C	
410-45105-12	MW-11S-20210623	Total/NA	Groundwater	3510C	
410-45105-12 - DL	MW-11S-20210623	Total/NA	Groundwater	3510C	
410-45105-13	MW-11D-20210623	Total/NA	Groundwater	3510C	
MB 410-143667/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-143667/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 143956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-5	MW-8D-20210623	Total/NA	Groundwater	3510C	
MB 410-143956/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-143956/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-45105-5 MS	MW-8D-20210623	Total/NA	Groundwater	3510C	
410-45105-5 MSD	MW-8D-20210623	Total/NA	Groundwater	3510C	

Prep Batch: 143961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-1 - RE	MW-1-20210622	Total/NA	Groundwater	3510C	
410-45105-2 - RE	MW-10S-20210622	Total/NA	Groundwater	3510C	
410-45105-3 - RE	MW-10D-20210622	Total/NA	Groundwater	3510C	
MB 410-143961/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-143961/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 143973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-6	MW-7S-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-7	MW-7D-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-8	MW-14S-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-9	MW-14D-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-10	MW-12S-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-11	MW-12D-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-12	MW-11S-20210623	Total/NA	Groundwater	8270D SIM	143667
410-45105-13	MW-11D-20210623	Total/NA	Groundwater	8270D SIM	143667
MB 410-143667/1-A	Method Blank	Total/NA	Water	8270D SIM	143667
LCS 410-143667/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	143667

GC/MS Semi VOA

Analysis Batch: 143979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-4	MW-8S-20210623	Total/NA	Groundwater	8270D SIM	143664
MB 410-143664/1-A	Method Blank	Total/NA	Water	8270D SIM	143664
LCS 410-143664/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	143664

Analysis Batch: 144210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-143956/1-A	Method Blank	Total/NA	Water	8270D SIM	143956
MB 410-143961/1-A	Method Blank	Total/NA	Water	8270D SIM	143961
LCS 410-143956/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	143956
LCS 410-143961/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	143961

Analysis Batch: 144441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-1	MW-1-20210622	Total/NA	Groundwater	8270D SIM	143125
410-45105-2	MW-10S-20210622	Total/NA	Groundwater	8270D SIM	143125
410-45105-3	MW-10D-20210622	Total/NA	Groundwater	8270D SIM	143125
410-45105-12 - DL	MW-11S-20210623	Total/NA	Groundwater	8270D SIM	143667

Prep Batch: 144459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-4 - RE	MW-8S-20210623	Total/NA	Groundwater	3510C	
410-45105-14 - DL	MW-4S-20210624	Total/NA	Groundwater	3510C	
410-45105-14	MW-4S-20210624	Total/NA	Groundwater	3510C	
410-45105-15	MW-4D-20210624	Total/NA	Groundwater	3510C	
410-45105-16	MW-3-20210624	Total/NA	Groundwater	3510C	
410-45105-16 - DL	MW-3-20210624	Total/NA	Groundwater	3510C	
410-45105-17 - DL	MW-13S-20210624	Total/NA	Groundwater	3510C	
410-45105-17	MW-13S-20210624	Total/NA	Groundwater	3510C	
410-45105-18	MW-13D-20210624	Total/NA	Groundwater	3510C	
410-45105-19	FB-20210624	Total/NA	Water	3510C	
410-45105-20	DUP-20210624	Total/NA	Groundwater	3510C	
410-45105-20 - DL	DUP-20210624	Total/NA	Groundwater	3510C	
MB 410-144459/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-144459/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 144525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-1 - RE	MW-1-20210622	Total/NA	Groundwater	8270D SIM	143961

Analysis Batch: 144775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-2 - RE	MW-10S-20210622	Total/NA	Groundwater	8270D SIM	143961
410-45105-3 - RE	MW-10D-20210622	Total/NA	Groundwater	8270D SIM	143961
410-45105-5 MS	MW-8D-20210623	Total/NA	Groundwater	8270D SIM	143956
410-45105-5 MSD	MW-8D-20210623	Total/NA	Groundwater	8270D SIM	143956

Analysis Batch: 145058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-4 - RE	MW-8S-20210623	Total/NA	Groundwater	8270D SIM	144459
MB 410-144459/1-A	Method Blank	Total/NA	Water	8270D SIM	144459
LCS 410-144459/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	144459

GC/MS Semi VOA

Analysis Batch: 145121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-5	MW-8D-20210623	Total/NA	Groundwater	8270D SIM	143956

Analysis Batch: 145132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45105-14	MW-4S-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-14 - DL	MW-4S-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-15	MW-4D-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-16	MW-3-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-16 - DL	MW-3-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-17	MW-13S-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-17 - DL	MW-13S-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-18	MW-13D-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-19	FB-20210624	Total/NA	Water	8270D SIM	144459
410-45105-20	DUP-20210624	Total/NA	Groundwater	8270D SIM	144459
410-45105-20 - DL	DUP-20210624	Total/NA	Groundwater	8270D SIM	144459

Client Sample ID: MW-1-20210622
Lab Sample ID: 410-45105-1
Date Collected: 06/22/21 11:32
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144661	07/02/21 16:26	UCB5	ELLE
Total/NA	Prep	3510C			143125	06/29/21 09:35	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	144441	07/02/21 02:32	X3ZL	ELLE
Total/NA	Prep	3510C	RE		143961	06/30/21 17:15	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	144525	07/02/21 04:11	X3ZL	ELLE

Client Sample ID: MW-10S-20210622
Lab Sample ID: 410-45105-2
Date Collected: 06/22/21 13:25
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144661	07/02/21 16:49	UCB5	ELLE
Total/NA	Prep	3510C			143125	06/29/21 09:35	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	144441	07/02/21 03:03	X3ZL	ELLE
Total/NA	Prep	3510C	RE		143961	06/30/21 17:15	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	144775	07/02/21 15:03	X3ZL	ELLE

Client Sample ID: MW-10D-20210622
Lab Sample ID: 410-45105-3
Date Collected: 06/22/21 14:10
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144661	07/02/21 17:12	UCB5	ELLE
Total/NA	Prep	3510C			143125	06/29/21 09:35	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	144441	07/02/21 03:33	X3ZL	ELLE
Total/NA	Prep	3510C	RE		143961	06/30/21 17:15	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	144775	07/02/21 15:34	X3ZL	ELLE

Client Sample ID: MW-8S-20210623
Lab Sample ID: 410-45105-4
Date Collected: 06/23/21 09:12
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 12:28	LCW8	ELLE
Total/NA	Prep	3510C			143664	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143979	07/01/21 04:10	UJM0	ELLE
Total/NA	Prep	3510C	RE		144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	145058	07/05/21 20:16	UJM0	ELLE

Client Sample ID: MW-8D-20210623
Lab Sample ID: 410-45105-5
Date Collected: 06/23/21 09:49
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 11:19	LCW8	ELLE

Client Sample ID: MW-8D-20210623
Lab Sample ID: 410-45105-5
Date Collected: 06/23/21 09:49
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			143956	06/30/21 17:15	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145121	07/06/21 12:23	UWHS	ELLE

Client Sample ID: MW-7S-20210623
Lab Sample ID: 410-45105-6
Date Collected: 06/23/21 10:49
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 12:51	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 03:01	UJM0	ELLE

Client Sample ID: MW-7D-20210623
Lab Sample ID: 410-45105-7
Date Collected: 06/23/21 11:29
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 13:14	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 03:32	UJM0	ELLE

Client Sample ID: MW-14S-20210623
Lab Sample ID: 410-45105-8
Date Collected: 06/23/21 13:36
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 13:37	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 04:02	UJM0	ELLE

Client Sample ID: MW-14D-20210623
Lab Sample ID: 410-45105-9
Date Collected: 06/23/21 14:15
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 14:00	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 04:33	UJM0	ELLE

Client Sample ID: MW-12S-20210623
Lab Sample ID: 410-45105-10
Date Collected: 06/23/21 15:06
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 14:23	LCW8	ELLE

Client Sample ID: MW-12S-20210623
Date Collected: 06/23/21 15:06
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-10
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 05:04	UJM0	ELLE

Client Sample ID: MW-12D-20210623
Date Collected: 06/23/21 15:46
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-11
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 14:46	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 05:34	UJM0	ELLE

Client Sample ID: MW-11S-20210623
Date Collected: 06/23/21 16:33
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-12
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 15:09	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 06:05	UJM0	ELLE
Total/NA	Prep	3510C	DL		143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM	DL	10	144441	07/01/21 22:57	X3ZL	ELLE

Client Sample ID: MW-11D-20210623
Date Collected: 06/23/21 17:19
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-13
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145203	07/06/21 15:32	LCW8	ELLE
Total/NA	Prep	3510C			143667	06/30/21 09:42	A2VL	ELLE
Total/NA	Analysis	8270D SIM		1	143973	07/01/21 06:36	UJM0	ELLE

Client Sample ID: MW-4S-20210624
Date Collected: 06/24/21 08:53
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-14
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145456	07/07/21 01:10	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 08:29	X3ZL	ELLE
Total/NA	Prep	3510C	DL		144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	DL	10	145132	07/06/21 08:59	X3ZL	ELLE

Client Sample ID: MW-4D-20210624
Lab Sample ID: 410-45105-15

Date Collected: 06/24/21 09:33
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145954	07/08/21 01:42	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 09:29	X3ZL	ELLE

Client Sample ID: MW-3-20210624
Lab Sample ID: 410-45105-16

Date Collected: 06/24/21 10:14
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145954	07/08/21 02:05	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 09:59	X3ZL	ELLE
Total/NA	Prep	3510C	DL		144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	DL	10	145132	07/06/21 10:29	X3ZL	ELLE

Client Sample ID: MW-13S-20210624
Lab Sample ID: 410-45105-17

Date Collected: 06/24/21 10:53
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	145954	07/08/21 05:10	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 10:59	X3ZL	ELLE
Total/NA	Prep	3510C	DL		144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	DL	20	145132	07/06/21 11:29	X3ZL	ELLE

Client Sample ID: MW-13D-20210624
Lab Sample ID: 410-45105-18

Date Collected: 06/24/21 11:29
Matrix: Groundwater
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145954	07/08/21 02:28	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 11:59	X3ZL	ELLE

Client Sample ID: FB-20210624
Lab Sample ID: 410-45105-19

Date Collected: 06/24/21 09:15
Matrix: Water
Date Received: 06/25/21 19:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145954	07/07/21 23:46	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 12:28	X3ZL	ELLE

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Client Sample ID: DUP-20210624

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-20

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	145954	07/08/21 02:52	ULCP	ELLE
Total/NA	Prep	3510C			144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	145132	07/06/21 12:58	X3ZL	ELLE
Total/NA	Prep	3510C	DL		144459	07/01/21 18:00	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	DL	10	145132	07/06/21 13:28	X3ZL	ELLE

Client Sample ID: Trip-Blank

Date Collected: 06/22/21 00:00
Date Received: 06/25/21 19:14

Lab Sample ID: 410-45105-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144661	07/02/21 11:49	UCB5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-45105-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-22
Alaska	State	PA00009	06-30-22
Alaska (UST)	State	17-027	02-28-22
Arizona	State	AZ0780	03-12-22
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-22
Colorado	State	PA00009	07-30-21
Connecticut	State	PH-0746	07-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	02-01-22
Florida	NELAP	E87997	06-30-22
Hawaii	State	N/A	01-31-22
Illinois	NELAP	004559	01-31-22
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-21
Kentucky (DW)	State	KY90088	01-01-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	12-31-21
Louisiana	NELAP	02055	06-30-22
Maine	State	2019012	03-12-22
Maryland	State	100	06-30-22
Massachusetts	State	M-PA009	06-30-22
Michigan	State	9930	01-31-22
Minnesota	NELAP	042-999-487	12-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	01-01-22
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-22
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-22
New Jersey	NELAP	PA011	06-30-22
New York	NELAP	10670	04-01-22
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-31-21
North Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-22
Rhode Island	State	LAO00338	01-31-22
South Carolina	State	89002002	01-31-22
Tennessee	State	02838	01-31-22
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	03-01-22
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-22
Washington	State	C457	04-12-22
West Virginia (DW)	State	9906 C	12-31-21
West Virginia DEP	State	055	09-30-22
Wyoming	State	8TMS-L	01-31-22

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	1.01	11-30-22

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): R-624SilMS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-1-20210622	410-45105-1	90	101	108	98
MW-10S-20210622	410-45105-2	89	102	108	97
MW-10D-20210622	410-45105-3	89	103	108	97
MW-8S-20210623	410-45105-4	89	100	106	96
MW-8D-20210623	410-45105-5	90	103	108	97
MW-7S-20210623	410-45105-6	90	103	108	97
MW-7D-20210623	410-45105-7	90	99	106	96
MW-14S-20210623	410-45105-8	90	102	106	96
MW-14D-20210623	410-45105-9	93	104	107	96
MW-12S-20210623	410-45105-10	90	99	107	96
MW-12D-20210623	410-45105-11	90	98	106	96
MW-11S-20210623	410-45105-12	92	100	106	96
MW-11D-20210623	410-45105-13	91	103	107	96
MW-4S-20210624	410-45105-14	92	105	106	95
MW-4D-20210624	410-45105-15	88	100	105	96
MW-3-20210624	410-45105-16	89	101	106	99
MW-13S-20210624	410-45105-17	90	103	106	98
MW-13D-20210624	410-45105-18	90	99	106	96
FB-20210624	410-45105-19	90	102	107	97
DUP-20210624	410-45105-20	89	102	107	98
Trip-Blank	410-45105-21	89	102	107	95
	MB 410-144661/7	88	100	107	95
	MB 410-145203/7	90	101	107	96
	MB 410-145456/6	91	102	106	96
	MB 410-145954/6	89	102	107	98
	LCS 410-144661/5	91	102	108	96
	LCS 410-145203/5	91	101	107	97
	LCS 410-145456/4	91	101	107	97
	LCS 410-145954/4	90	102	107	97
MW-8D-20210623 MS	410-45105-5 MS	90	100	107	97
MW-8D-20210623 MSD	410-45105-5 MSD	91	97	107	98

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL02L01.D

Lab ID: LCS 410-144661/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	20.5	103	80-120	
Ethylbenzene	20.0	20.7	104	80-120	
Toluene	20.0	21.4	107	80-120	
Xylenes, Total	60.0	61.4	102	80-120	
Methyl tertiary butyl ether	20.0	18.7	93	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL06L01.D

Lab ID: LCS 410-145203/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	21.1	105	80-120	
Ethylbenzene	20.0	21.1	106	80-120	
Toluene	20.0	21.5	108	80-120	
Xylenes, Total	60.0	61.8	103	80-120	
Methyl tertiary butyl ether	20.0	18.6	93	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL06L35.D

Lab ID: LCS 410-145456/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	19.4	97	80-120	
Ethylbenzene	20.0	18.9	95	80-120	
Toluene	20.0	19.4	97	80-120	
Xylenes, Total	60.0	56.6	94	80-120	
Methyl tertiary butyl ether	20.0	18.2	91	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL07L35.D

Lab ID: LCS 410-145954/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	19.9	99	80-120	
Ethylbenzene	20.0	19.6	98	80-120	
Toluene	20.0	20.1	100	80-120	
Xylenes, Total	60.0	58.2	97	80-120	
Methyl tertiary butyl ether	20.0	18.3	91	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL06S03.D

Lab ID: 410-45105-5 MS Client ID: MW-8D-20210623 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	20.0	ND	22.3	111	80-120	
Ethylbenzene	20.0	ND	22.2	111	80-120	
Toluene	20.0	ND	22.7	114	80-120	
Xylenes, Total	60.0	ND	65.1	109	80-120	
Methyl tertiary butyl ether	20.0	ND	18.4	92	69-122	

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 Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL06S04.D

Lab ID: 410-45105-5 MSD Client ID: MW-8D-20210623 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	22.2	111	0	30	80-120	
Ethylbenzene	20.0	22.3	111	0	30	80-120	
Toluene	20.0	22.9	115	1	30	80-120	
Xylenes, Total	60.0	65.5	109	1	30	80-120	
Methyl tertiary butyl ether	20.0	18.7	94	2	30	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NL02B01.D Lab Sample ID: MB 410-144661/7

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

Instrument ID: 7159 Date Analyzed: 07/02/2021 10:39

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-144661/5	NL02L01.D	07/02/2021 09:53
Trip-Blank	410-45105-21	NL02S03.D	07/02/2021 11:49
MW-1-20210622	410-45105-1	NL02S15.D	07/02/2021 16:26
MW-10S-20210622	410-45105-2	NL02S16.D	07/02/2021 16:49
MW-10D-20210622	410-45105-3	NL02S17.D	07/02/2021 17:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NL06B01.D Lab Sample ID: MB 410-145203/7

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

Instrument ID: 7159 Date Analyzed: 07/06/2021 10:33

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-145203/5	NL06L01.D	07/06/2021 09:47
MW-8D-20210623	410-45105-5	NL06S02.D	07/06/2021 11:19
MW-8D-20210623 MS	410-45105-5 MS	NL06S03.D	07/06/2021 11:42
MW-8D-20210623 MSD	410-45105-5 MSD	NL06S04.D	07/06/2021 12:05
MW-8S-20210623	410-45105-4	NL06S05.D	07/06/2021 12:28
MW-7S-20210623	410-45105-6	NL06S06.D	07/06/2021 12:51
MW-7D-20210623	410-45105-7	NL06S07.D	07/06/2021 13:14
MW-14S-20210623	410-45105-8	NL06S08.D	07/06/2021 13:37
MW-14D-20210623	410-45105-9	NL06S09.D	07/06/2021 14:00
MW-12S-20210623	410-45105-10	NL06S10.D	07/06/2021 14:23
MW-12D-20210623	410-45105-11	NL06S11.D	07/06/2021 14:46
MW-11S-20210623	410-45105-12	NL06S12.D	07/06/2021 15:09
MW-11D-20210623	410-45105-13	NL06S13.D	07/06/2021 15:32

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NL06B35.D Lab Sample ID: MB 410-145456/6

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

Instrument ID: 7159 Date Analyzed: 07/06/2021 21:58

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-145456/4	NL06L35.D	07/06/2021 21:12
MW-4S-20210624	410-45105-14	NL06S42.D	07/07/2021 01:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NL07B35.D Lab Sample ID: MB 410-145954/6

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

Instrument ID: 7159 Date Analyzed: 07/07/2021 22:07

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-145954/4	NL07L35.D	07/07/2021 21:21
FB-20210624	410-45105-19	NL07S38.D	07/07/2021 23:46
MW-4D-20210624	410-45105-15	NL07S43.D	07/08/2021 01:42
MW-3-20210624	410-45105-16	NL07S44.D	07/08/2021 02:05
MW-13D-20210624	410-45105-18	NL07S45.D	07/08/2021 02:28
DUP-20210624	410-45105-20	NL07S46.D	07/08/2021 02:52
MW-13S-20210624	410-45105-17	NL07S52.D	07/08/2021 05:10

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NM08T01.D BFB Injection Date: 03/08/2021

Instrument ID: 7159 BFB Injection Time: 15:12

Analysis Batch No.: 100578

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.0	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	93.7	
175	5.0 - 9.0 % of mass 174	7.1	(7.5) 1
176	95.0 - 101.0 % of mass 174	90.4	(96.5) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-100578/3	NM08X03.D	03/08/2021	15:51
	IC 410-100578/4	NM08X04.D	03/08/2021	16:13
	ICIS 410-100578/5	NM08X05.D	03/08/2021	16:35
	IC 410-100578/6	NM08X06.D	03/08/2021	16:57
	IC 410-100578/7	NM08X07.D	03/08/2021	17:19
	IC 410-100578/8	NM08X08.D	03/08/2021	17:41
	IC 410-100578/9	NM08X09.D	03/08/2021	18:03
	ICV 410-100578/11	NM08X11.D	03/08/2021	18:47

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NL02T02.D BFB Injection Date: 07/02/2021

Instrument ID: 7159 BFB Injection Time: 08:29

Analysis Batch No.: 144661

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	44.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.4	(8.0) 1
176	95.0 - 101.0 % of mass 174	78.1	(97.5) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-144661/3	NL02C01.D	07/02/2021	9:07
	LCS 410-144661/5	NL02L01.D	07/02/2021	9:53
	MB 410-144661/7	NL02B01.D	07/02/2021	10:39
Trip-Blank	410-45105-21	NL02S03.D	07/02/2021	11:49
MW-1-20210622	410-45105-1	NL02S15.D	07/02/2021	16:26
MW-10S-20210622	410-45105-2	NL02S16.D	07/02/2021	16:49
MW-10D-20210622	410-45105-3	NL02S17.D	07/02/2021	17:12

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NL06T01.D BFB Injection Date: 07/06/2021

Instrument ID: 7159 BFB Injection Time: 08:18

Analysis Batch No.: 145203

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	44.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	74.7	
175	5.0 - 9.0 % of mass 174	5.9	(8.0) 1
176	95.0 - 101.0 % of mass 174	72.5	(97.0) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.7) 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 410-145203/3	NL06C01.D	07/06/2021	9:01
	LCS 410-145203/5	NL06L01.D	07/06/2021	9:47
	MB 410-145203/7	NL06B01.D	07/06/2021	10:33
MW-8D-20210623	410-45105-5	NL06S02.D	07/06/2021	11:19
MW-8D-20210623 MS	410-45105-5 MS	NL06S03.D	07/06/2021	11:42
MW-8D-20210623 MSD	410-45105-5 MSD	NL06S04.D	07/06/2021	12:05
MW-8S-20210623	410-45105-4	NL06S05.D	07/06/2021	12:28
MW-7S-20210623	410-45105-6	NL06S06.D	07/06/2021	12:51
MW-7D-20210623	410-45105-7	NL06S07.D	07/06/2021	13:14
MW-14S-20210623	410-45105-8	NL06S08.D	07/06/2021	13:37
MW-14D-20210623	410-45105-9	NL06S09.D	07/06/2021	14:00
MW-12S-20210623	410-45105-10	NL06S10.D	07/06/2021	14:23
MW-12D-20210623	410-45105-11	NL06S11.D	07/06/2021	14:46
MW-11S-20210623	410-45105-12	NL06S12.D	07/06/2021	15:09
MW-11D-20210623	410-45105-13	NL06S13.D	07/06/2021	15:32

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NL06T35.D BFB Injection Date: 07/06/2021

Instrument ID: 7159 BFB Injection Time: 20:10

Analysis Batch No.: 145456

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.4	
75	30.0 - 60.0 % of mass 95	44.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	76.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.9) 1
176	95.0 - 101.0 % of mass 174	73.8	(96.1) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-145456/3	NL06C35.D	07/06/2021	20:49
	LCS 410-145456/4	NL06L35.D	07/06/2021	21:12
	MB 410-145456/6	NL06B35.D	07/06/2021	21:58
MW-4S-20210624	410-45105-14	NL06S42.D	07/07/2021	1:10

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NL07T35.D BFB Injection Date: 07/07/2021

Instrument ID: 7159 BFB Injection Time: 20:19

Analysis Batch No.: 145954

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	44.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	80.3	
175	5.0 - 9.0 % of mass 174	6.3	(7.8) 1
176	95.0 - 101.0 % of mass 174	77.0	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-145954/3	NL07C35.D	07/07/2021	20:58
	LCS 410-145954/4	NL07L35.D	07/07/2021	21:21
	MB 410-145954/6	NL07B35.D	07/07/2021	22:07
FB-20210624	410-45105-19	NL07S38.D	07/07/2021	23:46
MW-4D-20210624	410-45105-15	NL07S43.D	07/08/2021	1:42
MW-3-20210624	410-45105-16	NL07S44.D	07/08/2021	2:05
MW-13D-20210624	410-45105-18	NL07S45.D	07/08/2021	2:28
DUP-20210624	410-45105-20	NL07S46.D	07/08/2021	2:52
MW-13S-20210624	410-45105-17	NL07S52.D	07/08/2021	5:10

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: ICIS 410-100578/5 Date Analyzed: 03/08/2021 16:35

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NM08X05.D Heated Purge: (Y/N) N

Calibration ID: 21197

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		239744	4.39	1157613	7.90	956599	11.35
UPPER LIMIT		479488	4.89	2315226	8.40	1913198	11.85
LOWER LIMIT		119872	3.89	578807	7.40	478300	10.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-100578/11		223382	4.40	1140648	7.90	942752	11.35
CCVIS 410-144661/3		266998	4.38	949834	7.90	723989	11.34
CCVIS 410-145203/3		272328	4.37	1004518	7.90	759289	11.34
CCVIS 410-145456/3		250780	4.36	933187	7.89	722642	11.34
CCVIS 410-145954/3		269663	4.38	986950	7.90	761866	11.34

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: ICIS 410-100578/5 Date Analyzed: 03/08/2021 16:35

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NM08X05.D Heated Purge: (Y/N) N

Calibration ID: 21197

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		566983	13.23				
UPPER LIMIT		1133966	13.73				
LOWER LIMIT		283492	12.73				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-100578/11		553592	13.23				
CCVIS 410-144661/3		393017	13.22				
CCVIS 410-145203/3		407391	13.22				
CCVIS 410-145456/3		395069	13.22				
CCVIS 410-145954/3		409211	13.22				

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144661/3 Date Analyzed: 07/02/2021 09:07

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL02C01.D Heated Purge: (Y/N) N

Calibration ID: 21197

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		266998	4.38	949834	7.90	723989	11.34
UPPER LIMIT		533996	4.88	1899668	8.40	1447978	11.84
LOWER LIMIT		133499	3.88	474917	7.40	361995	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-144661/5		264332	4.39	965749	7.89	729826	11.34
MB 410-144661/7		261598	4.37	964365	7.88	726156	11.34
410-45105-21	Trip-Blank	260321	4.37	973310	7.89	736402	11.34
410-45105-1	MW-1-20210622	288131	4.37	976327	7.89	738107	11.34
410-45105-2	MW-10S-20210622	298641	4.37	980984	7.88	740961	11.34
410-45105-3	MW-10D-20210622	300326	4.36	997623	7.88	751272	11.34

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144661/3 Date Analyzed: 07/02/2021 09:07

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL02C01.D Heated Purge: (Y/N) N

Calibration ID: 21197

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		393017	13.22				
UPPER LIMIT		786034	13.72				
LOWER LIMIT		196509	12.72				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-144661/5		399721	13.22				
MB 410-144661/7		394881	13.22				
410-45105-21	Trip-Blank	398542	13.22				
410-45105-1	MW-1-20210622	399988	13.22				
410-45105-2	MW-10S-20210622	403579	13.22				
410-45105-3	MW-10D-20210622	400064	13.22				

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145203/3 Date Analyzed: 07/06/2021 09:01

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL06C01.D Heated Purge: (Y/N) N

Calibration ID: 21197

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		272328	4.37	1004518	7.90	759289	11.34
UPPER LIMIT		544656	4.87	2009036	8.40	1518578	11.84
LOWER LIMIT		136164	3.87	502259	7.40	379645	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145203/5		286637	4.38	994342	7.89	759252	11.34
MB 410-145203/7		270430	4.36	989241	7.89	755569	11.34
410-45105-5	MW-8D-20210623	273581	4.37	1009803	7.89	762515	11.34
410-45105-5 MS	MW-8D-20210623 MS	303172	4.37	995862	7.89	760179	11.34
410-45105-5 MSD	MW-8D-20210623 MSD	287530	4.37	996520	7.89	760534	11.34
410-45105-4	MW-8S-20210623	261782	4.35	988454	7.89	751846	11.34
410-45105-6	MW-7S-20210623	262282	4.37	976105	7.89	740295	11.34
410-45105-7	MW-7D-20210623	275121	4.37	968918	7.89	741604	11.34
410-45105-8	MW-14S-20210623	282510	4.40	974779	7.90	747872	11.34
410-45105-9	MW-14D-20210623	267504	4.39	968093	7.90	742460	11.34
410-45105-10	MW-12S-20210623	268225	4.37	979951	7.89	738121	11.34
410-45105-11	MW-12D-20210623	264098	4.37	963793	7.89	739732	11.34
410-45105-12	MW-11S-20210623	286484	4.38	965602	7.89	747830	11.34
410-45105-13	MW-11D-20210623	229047	4.36	960041	7.89	741362	11.34

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145203/3 Date Analyzed: 07/06/2021 09:01

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL06C01.D Heated Purge: (Y/N) N

Calibration ID: 21197

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		407391	13.22				
UPPER LIMIT		814782	13.72				
LOWER LIMIT		203696	12.72				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145203/5		409217	13.22				
MB 410-145203/7		410841	13.22				
410-45105-5	MW-8D-20210623	414558	13.22				
410-45105-5 MS	MW-8D-20210623 MS	406254	13.22				
410-45105-5 MSD	MW-8D-20210623 MSD	408204	13.22				
410-45105-4	MW-8S-20210623	408862	13.22				
410-45105-6	MW-7S-20210623	403826	13.22				
410-45105-7	MW-7D-20210623	406841	13.22				
410-45105-8	MW-14S-20210623	405627	13.22				
410-45105-9	MW-14D-20210623	406175	13.22				
410-45105-10	MW-12S-20210623	400788	13.22				
410-45105-11	MW-12D-20210623	400170	13.22				
410-45105-12	MW-11S-20210623	407729	13.22				
410-45105-13	MW-11D-20210623	400950	13.22				

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145456/3 Date Analyzed: 07/06/2021 20:49

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL06C35.D Heated Purge: (Y/N) N

Calibration ID: 21197

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		250780	4.36	933187	7.89	722642	11.34
UPPER LIMIT		501560	4.86	1866374	8.39	1445284	11.84
LOWER LIMIT		125390	3.86	466594	7.39	361321	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145456/4		261921	4.39	926614	7.90	718009	11.34
MB 410-145456/6		258261	4.36	939991	7.89	724141	11.34
410-45105-14	MW-4S-20210624	256153	4.37	924738	7.89	718167	11.34

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145456/3 Date Analyzed: 07/06/2021 20:49

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL06C35.D Heated Purge: (Y/N) N

Calibration ID: 21197

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		395069	13.22				
UPPER LIMIT		790138	13.72				
LOWER LIMIT		197535	12.72				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145456/4		390647	13.22				
MB 410-145456/6		391601	13.22				
410-45105-14	MW-4S-20210624	392807	13.22				

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145954/3 Date Analyzed: 07/07/2021 20:58

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL07C35.D Heated Purge: (Y/N) N

Calibration ID: 21197

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		269663	4.38	986950	7.90	761866	11.34
UPPER LIMIT		539326	4.88	1973900	8.40	1523732	11.84
LOWER LIMIT		134832	3.88	493475	7.40	380933	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145954/4		279806	4.37	989093	7.89	762224	11.34
MB 410-145954/6		276344	4.36	995664	7.89	768053	11.34
410-45105-19	FB-20210624	271594	4.36	992286	7.89	760940	11.34
410-45105-15	MW-4D-20210624	275548	4.38	991151	7.89	762060	11.34
410-45105-16	MW-3-20210624	243906	4.36	973688	7.89	744379	11.34
410-45105-18	MW-13D-20210624	270545	4.37	982213	7.89	750594	11.34
410-45105-20	DUP-20210624	257471	4.37	980379	7.89	744515	11.34
410-45105-17	MW-13S-20210624	288188	4.39	958422	7.90	738728	11.34

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145954/3 Date Analyzed: 07/07/2021 20:58

Instrument ID: 7159 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): NL07C35.D Heated Purge: (Y/N) N

Calibration ID: 21197

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		409211	13.22				
UPPER LIMIT		818422	13.72				
LOWER LIMIT		204606	12.72				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145954/4		410651	13.22				
MB 410-145954/6		418981	13.22				
410-45105-19	FB-20210624	413688	13.22				
410-45105-15	MW-4D-20210624	414398	13.22				
410-45105-16	MW-3-20210624	408278	13.22				
410-45105-18	MW-13D-20210624	405481	13.22				
410-45105-20	DUP-20210624	412227	13.22				
410-45105-17	MW-13S-20210624	406030	13.22				

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 Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-1-20210622 Lab Sample ID: 410-45105-1

Matrix: Groundwater Lab File ID: NL02S15.D

Analysis Method: 8260C Date Collected: 06/22/2021 11:32

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 16:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 144661 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S15.D
Lims ID: 410-45105-C-1
Client ID: MW-1-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 16:26:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-022
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 04-Jul-2021 15:15:25 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: riehlc Date: 04-Jul-2021 15:10:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.367	4.379	-0.012	38	288131	250.0	
33 Methyl tert-butyl ether	73		4.781				ND	
$ 51 Dibromofluoromethane (Surr)	113	7.001	6.995	0.006	93	229787	45.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	93	62959	50.5	
60 Benzene	78		7.488				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	976327	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	994509	54.2	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106				0		0.4921	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	738107	50.0	
97 Ethylbenzene	91		11.448				ND	7
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	96	3603	0.3079	
99 o-Xylene	106	11.886	11.892	-0.006	91	2127	0.1842	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	357350	48.9	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.219	-0.001	95	399988	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

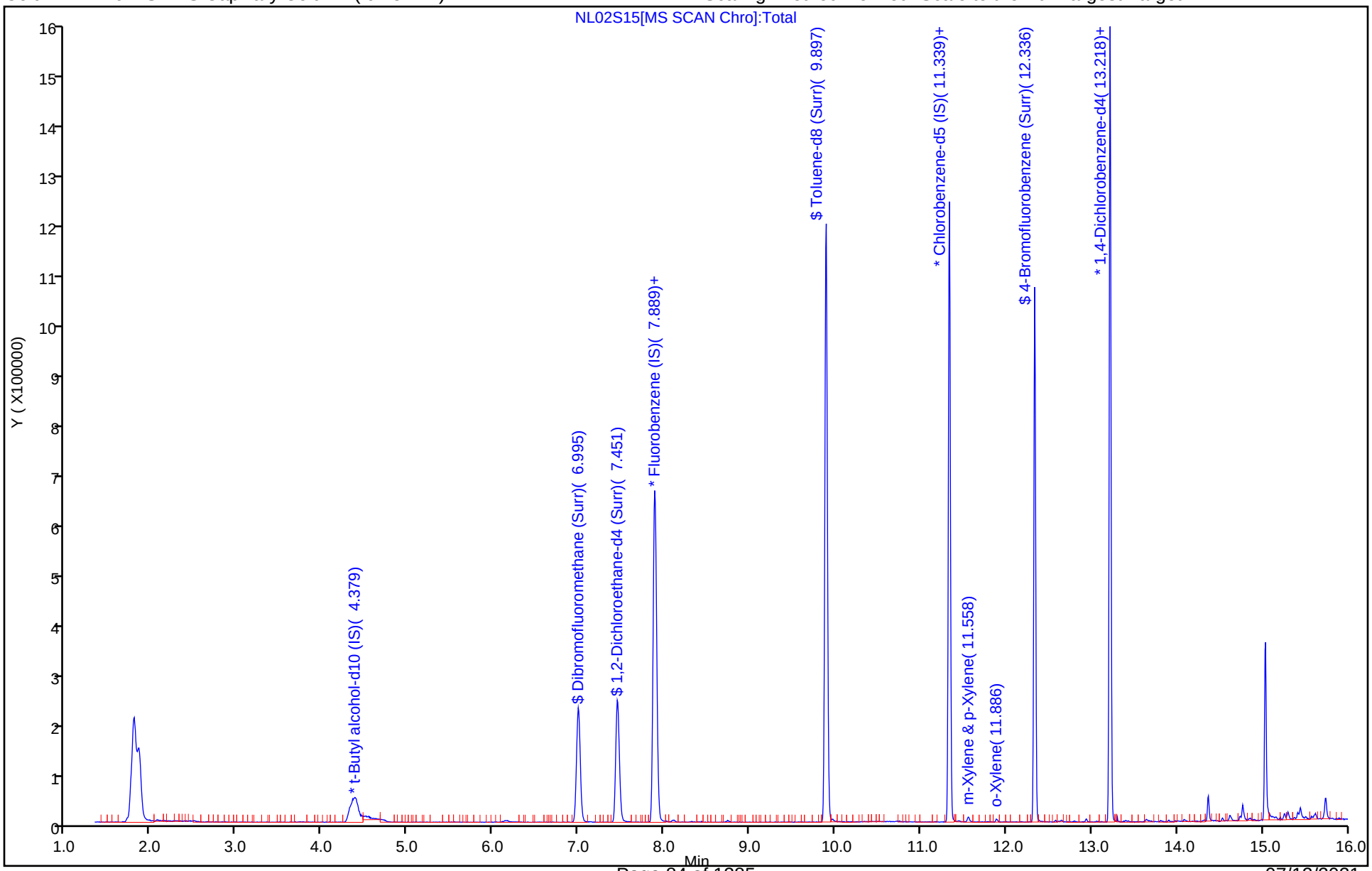
Report Date: 04-Jul-2021 15:16:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S15.D

Injection Date:	02-Jul-2021 16:26:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-1	Lab Sample ID:	410-45105-1	Worklist Smp#:	22
Client ID:	MW-1-20210622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-10S-20210622 Lab Sample ID: 410-45105-2

Matrix: Groundwater Lab File ID: NL02S16.D

Analysis Method: 8260C Date Collected: 06/22/2021 13:25

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 16:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 144661 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	0.22	J	1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S16.D
Lims ID: 410-45105-C-2
Client ID: MW-10S-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 16:49:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-023
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 04-Jul-2021 15:15:25 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: riehlc Date: 04-Jul-2021 15:10:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.379	-0.006	38	298641	250.0	
33 Methyl tert-butyl ether	73		4.781				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	228386	44.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	93	64259	51.2	
60 Benzene	78		7.488				ND	
* 64 Fluorobenzene (IS)	96	7.883	7.895	-0.012	99	980984	50.0	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	992876	53.9	
82 Toluene	92	9.976	9.970	0.006	96	3205	0.2209	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	740961	50.0	
97 Ethylbenzene	91		11.448				ND	7
98 m-Xylene & p-Xylene	106		11.564				ND	7
99 o-Xylene	106		11.892				ND	7
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	357109	48.6	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.219	0.000	95	403579	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

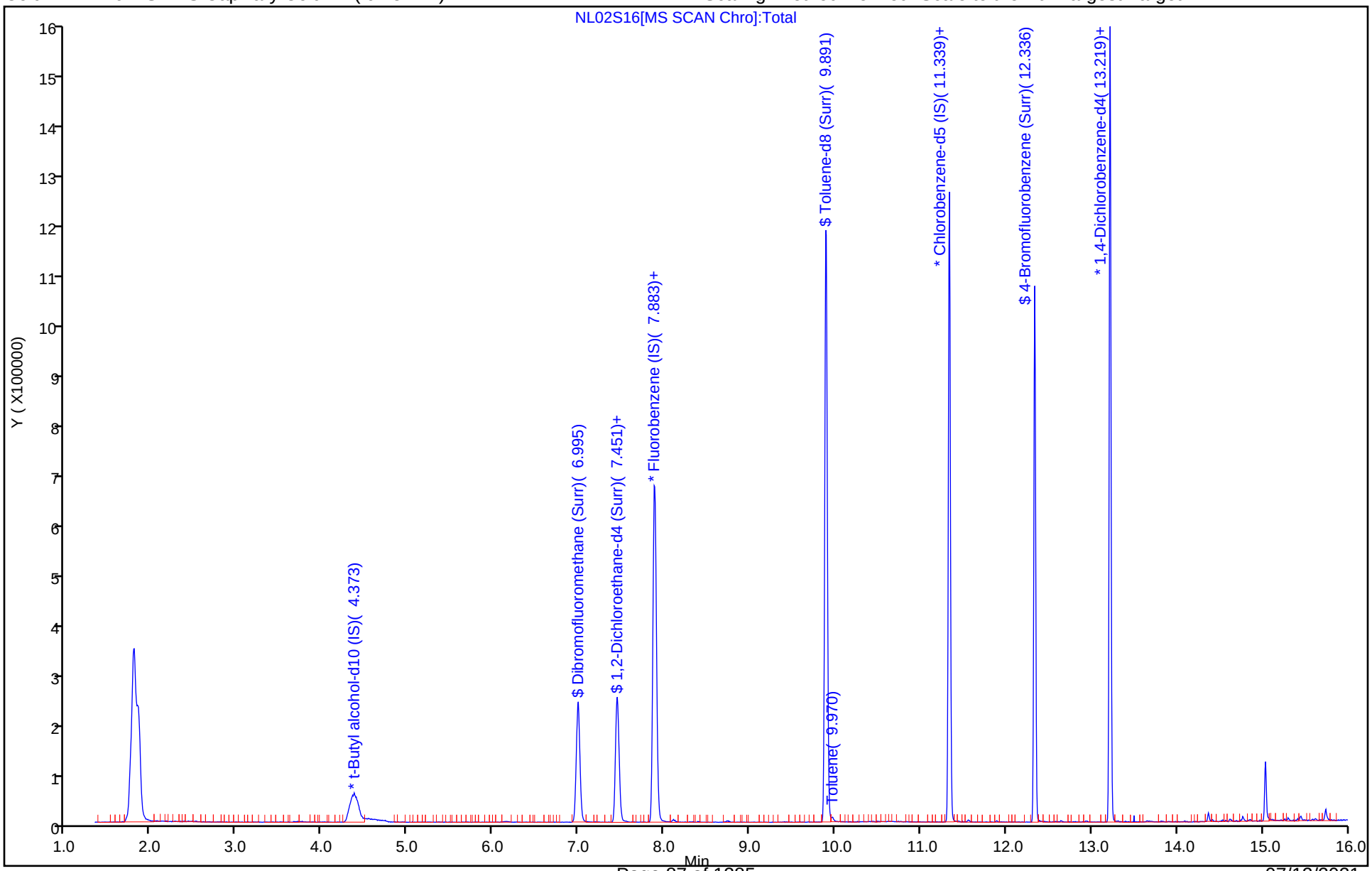
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Jul-2021 15:16:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S16.D				
Injection Date:	02-Jul-2021 16:49:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-2	Lab Sample ID:	410-45105-2	Worklist Smp#:	23
Client ID:	MW-10S-20210622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 04-Jul-2021 15:16:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S16.D

Injection Date: 02-Jul-2021 16:49:30 Instrument ID: 7159

Lims ID: 410-45105-C-2 Lab Sample ID: 410-45105-2

Client ID: MW-10S-20210622

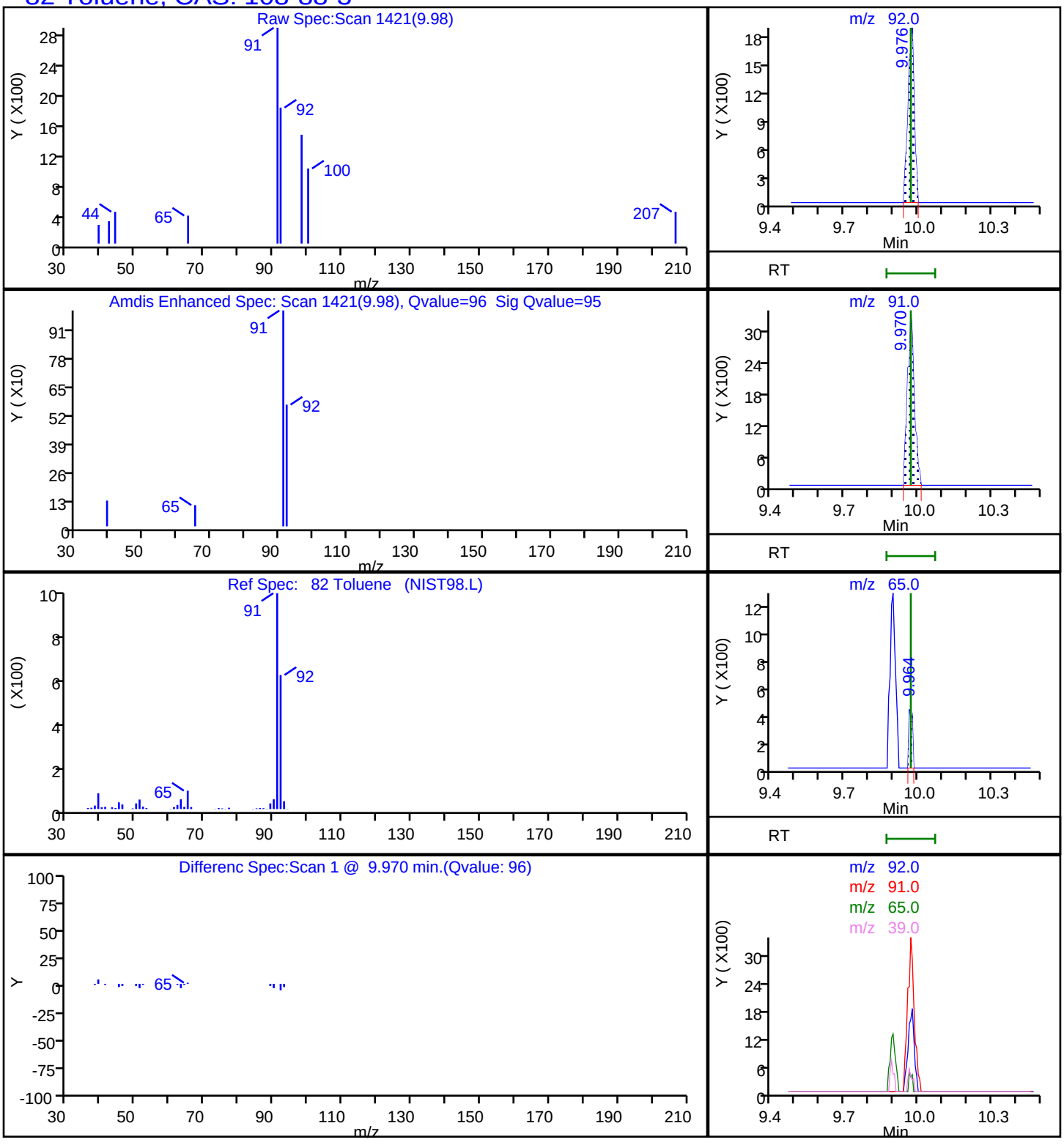
Operator ID: lcp00895 ALS Bottle#: 22 Worklist Smp#: 23

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

82 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-10D-20210622 Lab Sample ID: 410-45105-3

Matrix: Groundwater Lab File ID: NL02S17.D

Analysis Method: 8260C Date Collected: 06/22/2021 14:10

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 17:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 144661 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S17.D
Lims ID: 410-45105-C-3
Client ID: MW-10D-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 17:12:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-024
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 04-Jul-2021 15:15:25 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: riehlc Date: 04-Jul-2021 15:11:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.355	4.379	-0.024	38	300326	250.0	
33 Methyl tert-butyl ether	73		4.781				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	6.995	-0.006	94	233334	44.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.445	7.451	-0.006	92	65646	51.5	
60 Benzene	78		7.488				ND	
* 64 Fluorobenzene (IS)	96	7.883	7.895	-0.012	99	997623	50.0	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	1006121	53.8	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	751272	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	7
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	359465	48.3	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.219	-0.001	95	400064	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

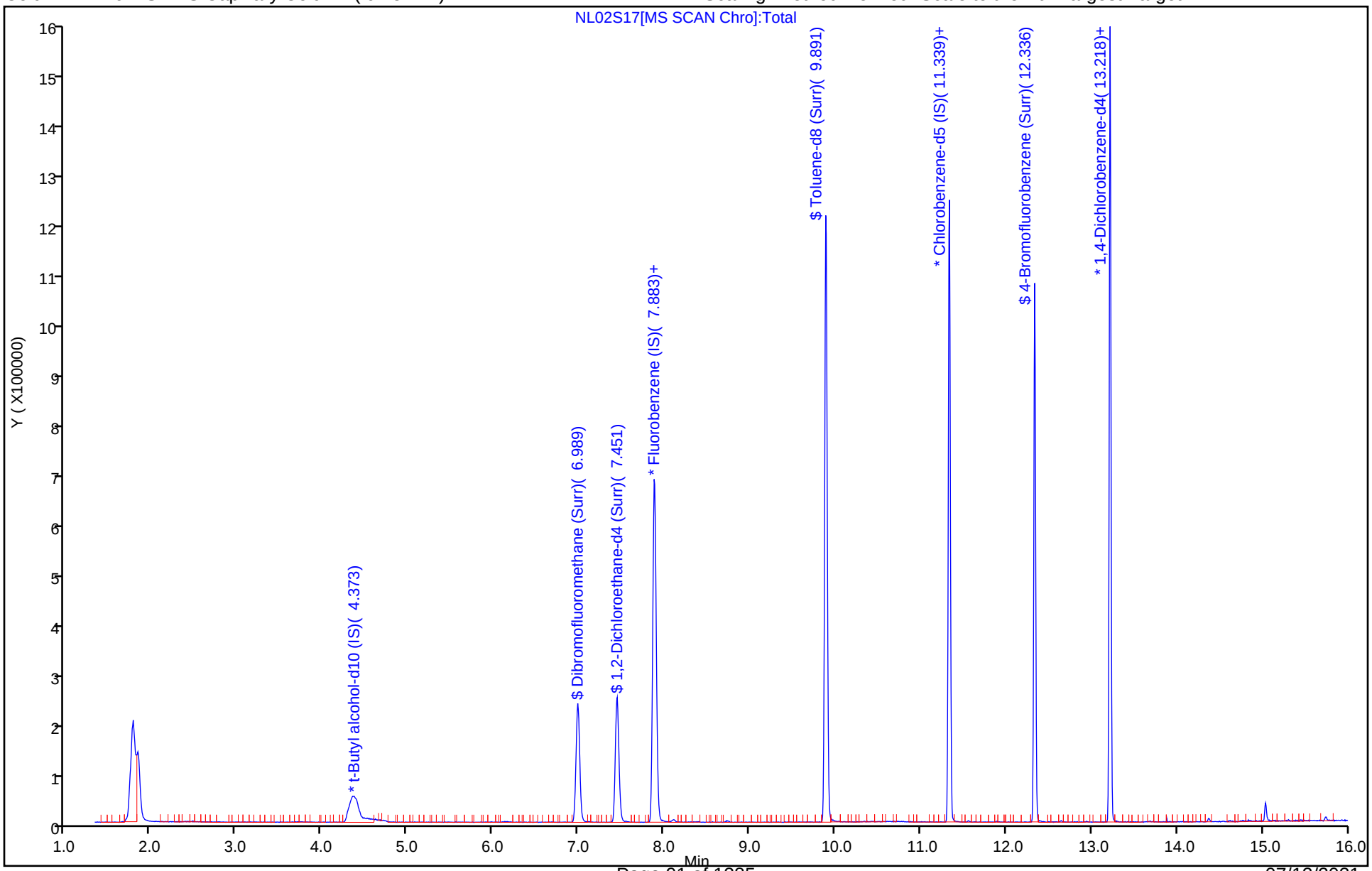
Report Date: 04-Jul-2021 15:16:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S17.D

Injection Date:	02-Jul-2021 17:12:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-3	Lab Sample ID:	410-45105-3	Worklist Smp#:	24
Client ID:	MW-10D-20210622				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8S-20210623 Lab Sample ID: 410-45105-4

Matrix: Groundwater Lab File ID: NL06S05.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:12

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 12:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S05.D
Lims ID: 410-45105-C-4
Client ID: MW-8S-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 12:28:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-012
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.349	4.373	-0.024	38	261782	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	93	230987	44.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	63453	50.2	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	988454	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	992978	53.1	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	751846	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	7
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	357899	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	95	408862	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

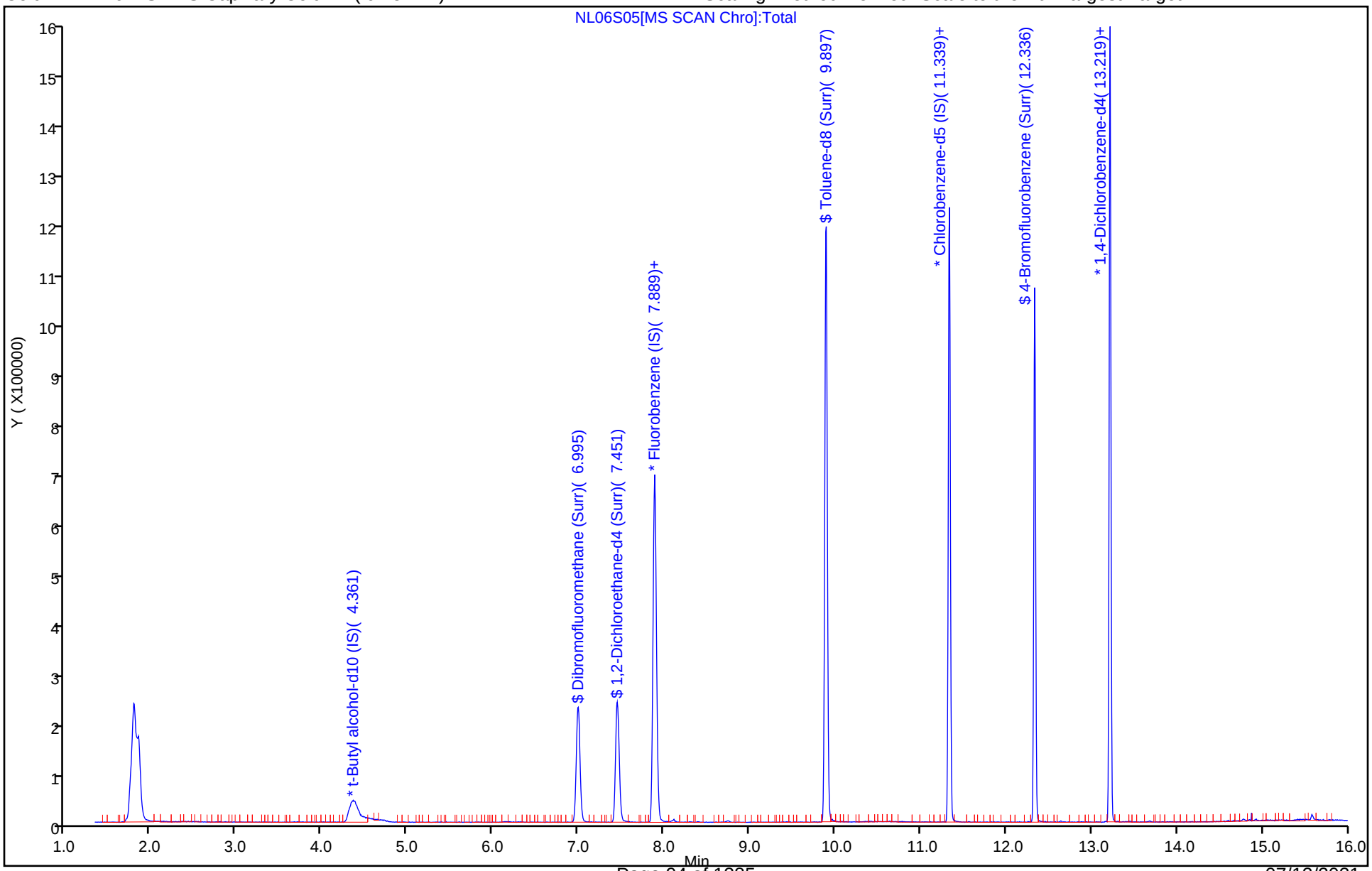
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 20:48:25 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S05.D				
Injection Date:	06-Jul-2021 12:28:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-4	Lab Sample ID:	410-45105-4	Worklist Smp#:	12
Client ID:	MW-8S-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8D-20210623 Lab Sample ID: 410-45105-5

Matrix: Groundwater Lab File ID: NL06S02.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:49

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 11:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S02.D
Lims ID: 410-45105-C-5
Client ID: MW-8D-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 11:19:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-009
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: papel Date: 06-Jul-2021 12:50:31

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.170				ND	
2	Chlorodifluoromethane	51		1.389				ND	
3	2-Chloro-1,1,1-Trifluoroethane	118		1.389				ND	
4	Ethyl ether	59		1.926				ND	
5	Dichlorodifluoromethane	85		2.019				ND	
6	Chloromethane	50		2.225				ND	
7	Acetonitrile	41		2.334				ND	
8	Vinyl chloride	62		2.341				ND	
9	Butadiene	39		2.353				ND	
10	Bromomethane	94		2.694				ND	
11	Chloroethane	64		2.785				ND	
12	Dichlorofluoromethane	67		3.028				ND	
13	Trichlorofluoromethane	101		3.089				ND	
14	Vinyl acetate	43		3.115				ND	
15	Pentane	43		3.150				ND	
16	Ethanol	45		3.223				ND	
17	1,2-Dichloro-1,1,2-trifluoroetha	67		3.448				ND	
18	Acrolein	56		3.539				ND	
19	Ethyl acetate	43		3.675				ND	
20	1,1-Dichloroethene	96		3.692				ND	
21	Acetone	58		3.716				ND	
22	112TCTFE	101		3.722				ND	
23	Isopropyl alcohol	45		3.874				ND	
24	Iodomethane	142		3.898				ND	
25	Carbon disulfide	76		4.008				ND	
26	Methyl acetate	43		4.154				ND	
27	3-Chloro-1-propene	41		4.184				ND	
* 29	t-Butyl alcohol-d10 (IS)	65	4.373	4.373	0.000	38	273581	250.0	
28	Methylene Chloride	84		4.385				ND	
31	2-Methyl-2-propanol	59		4.501				ND	
30	Isopropyl acetate	43		4.535				ND	
32	Acrylonitrile	53		4.714				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.787				ND	
34 trans-1,2-Dichloroethene	96		4.805				ND	
36 Hexane	57		5.231				ND	
37 1,1-Dichloroethane	63		5.468				ND	
39 Isopropyl ether	45		5.517				ND	
38 n-Propyl acetate	61		5.529				ND	
40 2-Chloro-1,3-butadiene	53		5.577				ND	
41 Tert-butyl ethyl ether	59		6.052				ND	
S 42 1,2-Dichloroethene, Total	100		6.155				ND	7
43 2-Butanone (MEK)	43		6.247				ND	
44 cis-1,2-Dichloroethene	96		6.301				ND	
45 2,2-Dichloropropane	77		6.320				ND	
46 Propionitrile	54		6.332				ND	
47 Methacrylonitrile	67		6.557				ND	
48 Chlorobromomethane	128		6.636				ND	
49 Tetrahydrofuran	71		6.636				ND	
50 Chloroform	83		6.782				ND	
T 223 Diethoxymethane TIC	1		7.000				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	94	236974	44.9	
52 1,1,1-Trichloroethane	97		7.019				ND	
53 3,4-Dichloro-1-butene	75		7.108				ND	
54 Cyclohexane	56		7.123				ND	
56 1,1-Dichloropropene	75		7.226				ND	
55 Carbon tetrachloride	117		7.226				ND	
57 n-Butyl acetate	43		7.333				ND	
58 Isobutyl alcohol	41		7.342				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	92	66584	51.6	
60 Benzene	78		7.494				ND	
61 1,2-Dichloroethane	62		7.561				ND	7
62 Tert-amyl methyl ether	73		7.676				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	1009803	50.0	
63 t-Amyl alcohol	73	7.895	7.895	0.000	34	11313	NC	
65 n-Heptane	43		7.901				ND	
66 n-Butanol	56		8.230				ND	
67 Trichloroethene	95		8.376				ND	
68 Methylcyclohexane	83		8.692				ND	
70 1,2-Dichloropropane	63		8.710				ND	
69 2-ethoxy-2-methyl butane	87		8.710				ND	
71 Methyl methacrylate	69		8.783				ND	
72 1,4-Dioxane	88		8.790				ND	
74 Dibromomethane	93		8.826				ND	
73 cis-1,4-Dichloro-2-butene	88		8.833				ND	
75 Dichlorobromomethane	83		9.057				ND	
76 2,3,4-Trichlorobutene	109		9.296				ND	
77 2-Nitropropane	41		9.313				ND	
78 2-Chloroethyl vinyl ether	63		9.404				ND	
79 cis-1,3-Dichloropropene	75		9.593				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.751				ND	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1020714	53.8	
82 Toluene	92		9.970				ND	
S 83 1,3-Dichloropropene, Total	100		10.060				ND	7
84 trans-1,3-Dichloropropene	75		10.219				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 Ethyl methacrylate	69		10.274				ND	
86 1,1,2-Trichloroethane	97		10.426				ND	
87 Tetrachloroethene	166		10.517				ND	
88 1,3-Dichloropropane	76		10.584				ND	
89 2-Hexanone	43		10.627				ND	
90 Chlorodibromomethane	129		10.797				ND	
91 Ethylene Dibromide	107		10.913				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	762515	50.0	
94 1-Chlorohexane	91		11.345				ND	U
95 Chlorobenzene	112		11.363				ND	
96 1,1,1,2-Tetrachloroethane	131		11.448				ND	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
100 Styrene	104		11.904				ND	
101 Bromoform	173		12.069				ND	
102 Isopropylbenzene	105		12.190				ND	
103 Cyclohexanone	55		12.269				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	368273	48.7	
105 1,1,2,2-Tetrachloroethane	83		12.434				ND	
106 Bromobenzene	156		12.458				ND	
107 trans-1,4-Dichloro-2-butene	53		12.458				ND	
108 1,2,3-Trichloropropane	110		12.482				ND	
109 N-Propylbenzene	91		12.519				ND	
110 2-Chlorotoluene	126		12.598				ND	
111 1,3,5-Trimethylbenzene	105		12.653				ND	
112 4-Chlorotoluene	126		12.689				ND	
113 tert-Butylbenzene	134		12.896				ND	
114 Pentachloroethane	167		12.932				ND	
115 1,2,4-Trimethylbenzene	105		12.939				ND	
116 sec-Butylbenzene	105		13.060				ND	
117 1,3-Dichlorobenzene	146		13.164				ND	7
118 4-Isopropyltoluene	119		13.170				ND	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	414558	50.0	
120 1,4-Dichlorobenzene	146		13.237				ND	7
121 1,2,3-Trimethylbenzene	105		13.243				ND	
122 Benzyl chloride	91		13.310				ND	7
123 1,3-Diethylbenzene	119		13.364				ND	
124 p-Diethylbenzene	119		13.443				ND	
125 n-Butylbenzene	92		13.462				ND	
126 1,2-Dichlorobenzene	146		13.498				ND	
127 o-diethylbenzene	119		13.510				ND	
128 Hexachloroethane	201		13.560				ND	
129 1,2-Dibromo-3-Chloropropane	75		14.040				ND	
130 1,3,5-Trichlorobenzene	180		14.167				ND	
131 1,2,4-Trichlorobenzene	180		14.593				ND	
132 Hexachlorobutadiene	225		14.672				ND	
133 Naphthalene	128		14.776				ND	
134 1,2,3-Trichlorobenzene	180		14.922				ND	
135 2-Methylnaphthalene	142		15.579				ND	
136 C4-C10	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
185 Hexachloroethane TIC	1		0.000				ND	
199 Vinyl acetate (TIC)	1		0.000				ND	
195 2-Picoline (TIC)	1		0.000				ND	
193 Isooctane TIC	1		0.000				ND	
192 Malononitrile (TIC)	1		0.000				ND	
191 1-Chlorobutane TIC	1		0.000				ND	
190 Propionaldehyde TIC	1		0.000				ND	
189 2-Pentanone (TIC)	1		0.000				ND	
188 Bromoethane TIC	1		0.000				ND	
187 Nitrobenzene TIC	1		0.000				ND	
194 Epibromohydrin TIC	1		0.000				ND	
186 1,3-Dichlorobutene-2(total) TIC	1		0.000				ND	
184 2-Chloroethanol TIC	1		0.000				ND	
183 Propane TIC	1		0.000				ND	
182 Acetonitrile TIC	1		0.000				ND	
181 Ethyl ether TIC	1		0.000				ND	
198 Chlorodifluoromethane TIC	1		0.000				ND	
196 Chloroacetaldehyde TIC	1		0.000				ND	
197 Ethyl Acetate TIC	1		0.000				ND	
210 Bromoacetone (TIC)	1		0.000				ND	
217 Ethyl acrylate TIC	1		0.000				ND	
216 Pentachloroethane TIC	1		0.000				ND	
215 1-Bromo-2-chloroethane TIC	1		0.000				ND	
214 3-Chloro-1,2-propanediol TIC	1		0.000				ND	
213 Chloral hydrate (TIC)	1		0.000				ND	
212 Methanol TIC	1		0.000				ND	
211 2,3-Dibromopropene TIC	1		0.000				ND	
209 Paraldehyde TIC	1		0.000				ND	
201 Vinyl bromide TIC	1		0.000				ND	
207 Bis(2-chloroethyl)sulfide (TIC)	1		0.000				ND	
S 144 Total Diethylbenzene	1		0.000				ND	7
206 2-Bromo-3-chloropropene TIC	1		0.000				ND	
205 Pentafluorobenzene TIC	1		0.000				ND	
204 n-butyl Acetate TIC	1		0.000				ND	
203 Epichlorohydrin TIC	1		0.000				ND	
202 1-Bromopropane TIC	1		0.000				ND	
200 Allyl Alcohol TIC	1		0.000				ND	
180 Propanol TIC	1		0.000				ND	
179 Monochloroacetic acid TIC	1		0.000				ND	
138 Ethyl bromide	1		0.000				ND	
208 Ethylene oxide TIC	1		0.000				ND	
137 Chloroacetonitrile	1		0.000				ND	
153 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
152 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
150 Diethoxymethane	1		0.000				ND	
149 Propene oxide TIC	1		0.000				ND	
148 C5-C12	1		0.000				ND	
147 1-Bromo-2-chloroethane	1		0.000				ND	
155 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
146 C6-C12	1		0.000				ND	
143 3-chloro-1-Butene	1		0.000				ND	
142 C6-C10	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
141 Methyl acrylate	1		0.000				ND	
140 tert-Butyl Formate	1		0.000				ND	
139 1,3-Divinylbenzene	1		0.000				ND	
157 1-Chlorobutane	1		0.000				ND	
169 Butane	1		0.000				ND	
168 Dodecane	57		0.000				ND	
165 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
156 1,4-Divinylbenzene	1		0.000				ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
176 beta-Propiolactone TIC	1		0.000				ND	
175 n-Propylamine (TIC)	1		0.000				ND	
174 1-Methyl-2-pyrrilidinone TIC	1		0.000				ND	
173 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
172 2,3-Dibromo-1-propanol TIC	1		0.000				ND	
171 N-Nitrosodi-n-butylamine TIC	1		0.000				ND	
170 1,2,3,4-Diepoxybutane (TIC)	1		0.000				ND	
158 C4-C12	1		0.000				ND	
177 2-Bromoethanol TIC	1		0.000				ND	
167 n-Decane	57		0.000				ND	
178 Propargyl alcohol TIC	1		0.000				ND	
166 Ethyl acrylate	55		0.000				ND	
S 162 divinyl benzene	1		0.000				ND	7
161 1,3-Dichlorobutene-2(total)	1		0.000				ND	
160 Propene oxide	1		0.000				ND	
218 Ethanol TIC	1		0.000				ND	
219 o-toluidine TIC	1		0.000				ND	
S 220 Total BTEX	1		0.000				ND	
221 2-Methylbutane TIC	1		0.000				ND	
222 Tetranitromethane TIC	1		0.000				ND	
163 Methylal	1		0.000				ND	
224 Butane TIC	1		0.000				ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

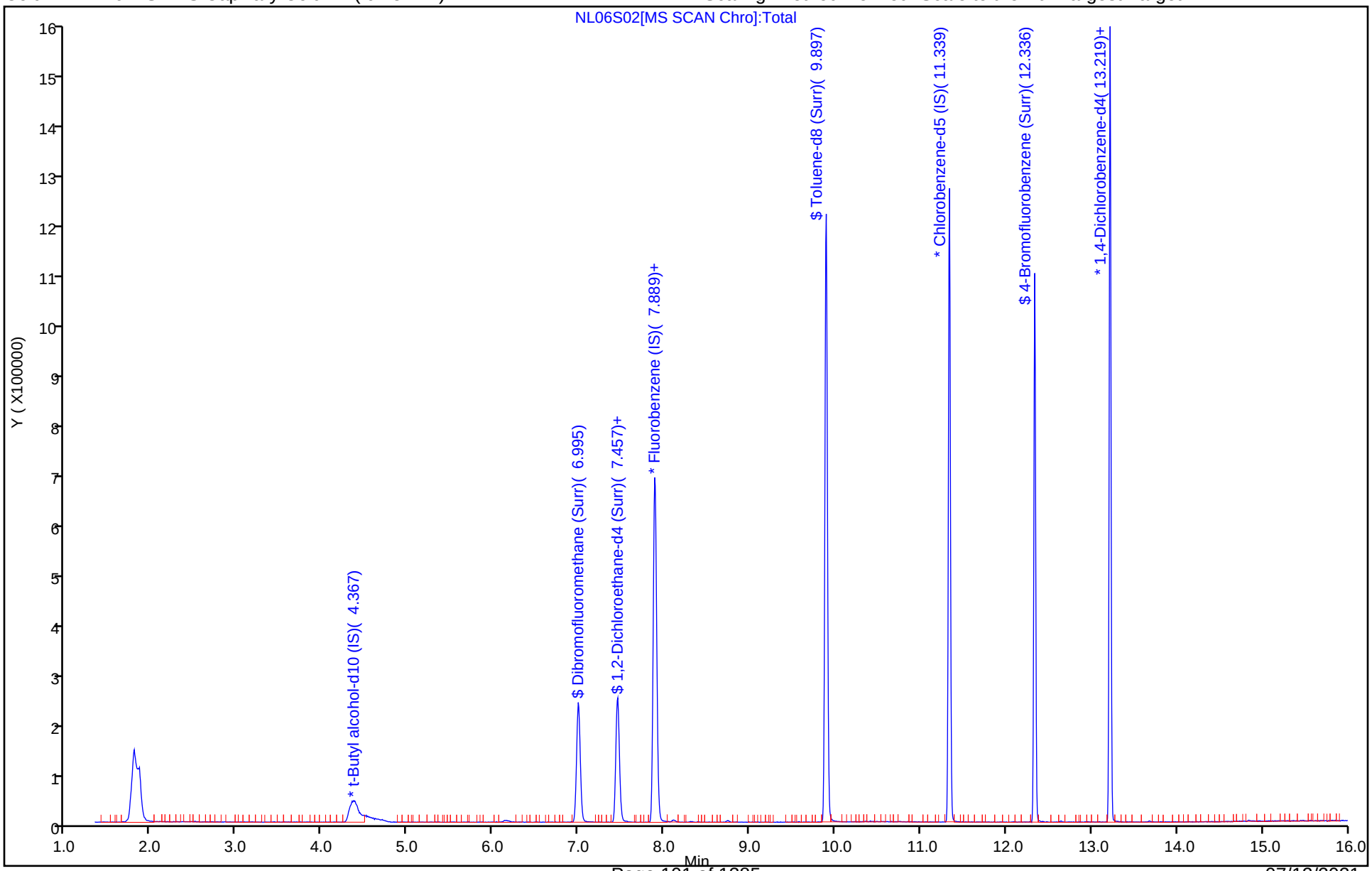
Report Date: 06-Jul-2021 20:48:15 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S02.D

Injection Date:	06-Jul-2021 11:19:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-5	Lab Sample ID:	410-45105-5	Worklist Smp#:	9
Client ID:	MW-8D-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-7S-20210623 Lab Sample ID: 410-45105-6

Matrix: Groundwater Lab File ID: NL06S06.D

Analysis Method: 8260C Date Collected: 06/23/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 12:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.34	J	1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S06.D
Lims ID: 410-45105-C-6
Client ID: MW-7S-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 12:51:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-013
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 20:36:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.373	0.000	38	262282	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	93	229558	45.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	64247	51.5	
60 Benzene	78	7.500	7.494	0.006	83	7909	0.3405	M
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	976105	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	991690	53.9	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	740295	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	354792	48.4	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	95	403826	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

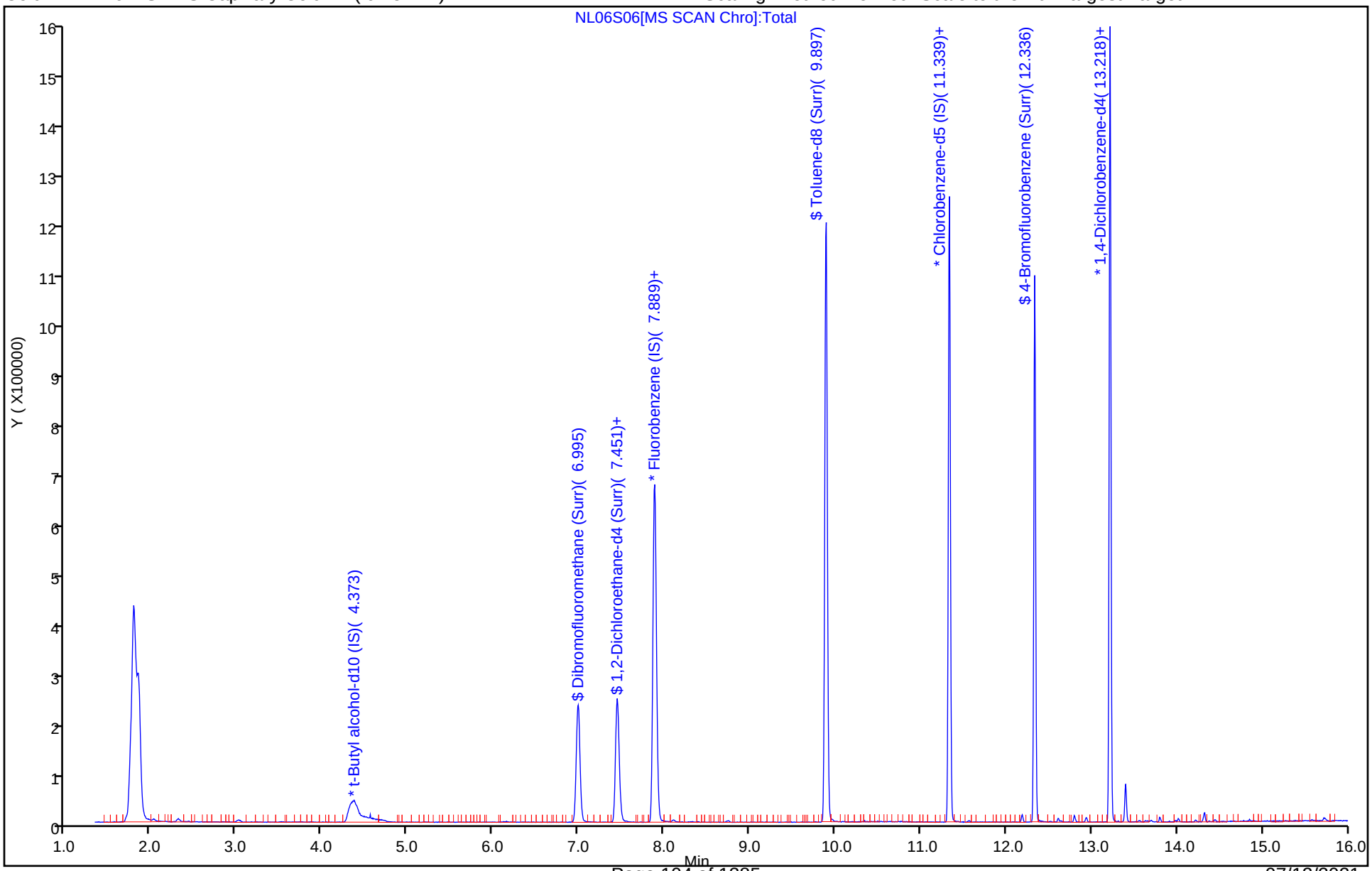
Report Date: 06-Jul-2021 20:48:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S06.D

Injection Date:	06-Jul-2021 12:51:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-6	Lab Sample ID:	410-45105-6	Worklist Smp#:	13
Client ID:	MW-7S-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 06-Jul-2021 20:48:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S06.D

Injection Date: 06-Jul-2021 12:51:30 Instrument ID: 7159

Lims ID: 410-45105-C-6 Lab Sample ID: 410-45105-6

Client ID: MW-7S-20210623

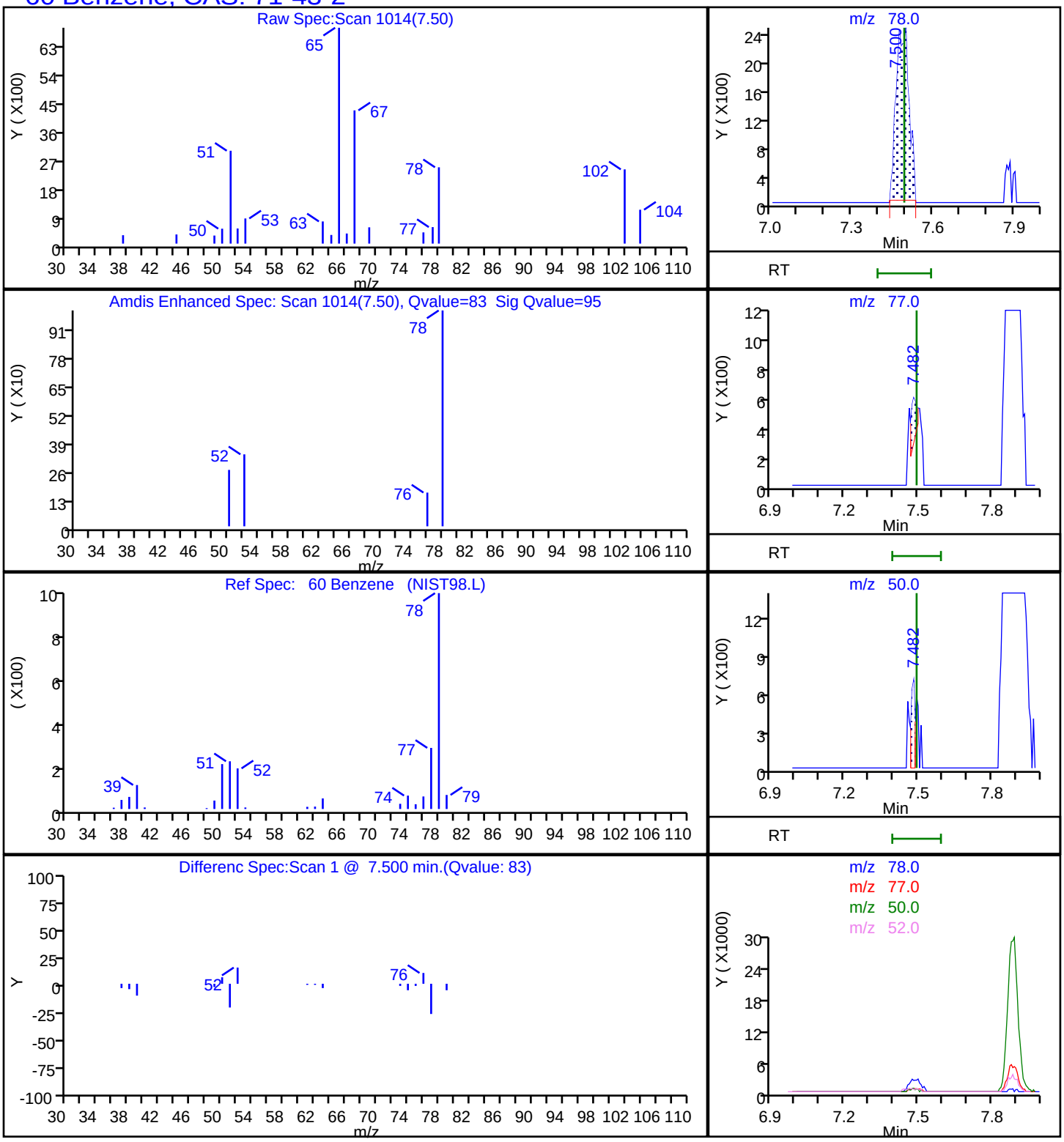
Operator ID: lcp00895 ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

60 Benzene, CAS: 71-43-2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

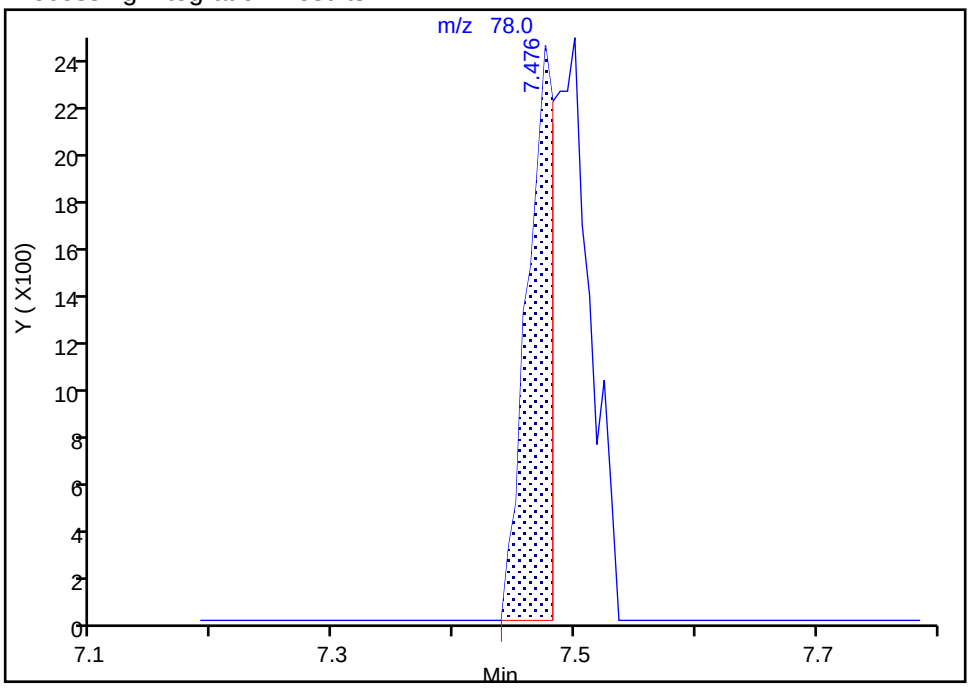
Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S06.D				
Injection Date:	06-Jul-2021 12:51:30	Instrument ID:	7159		
Lims ID:	410-45105-C-6	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	lcp00895	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 Benzene, CAS: 71-43-2

Signal: 1

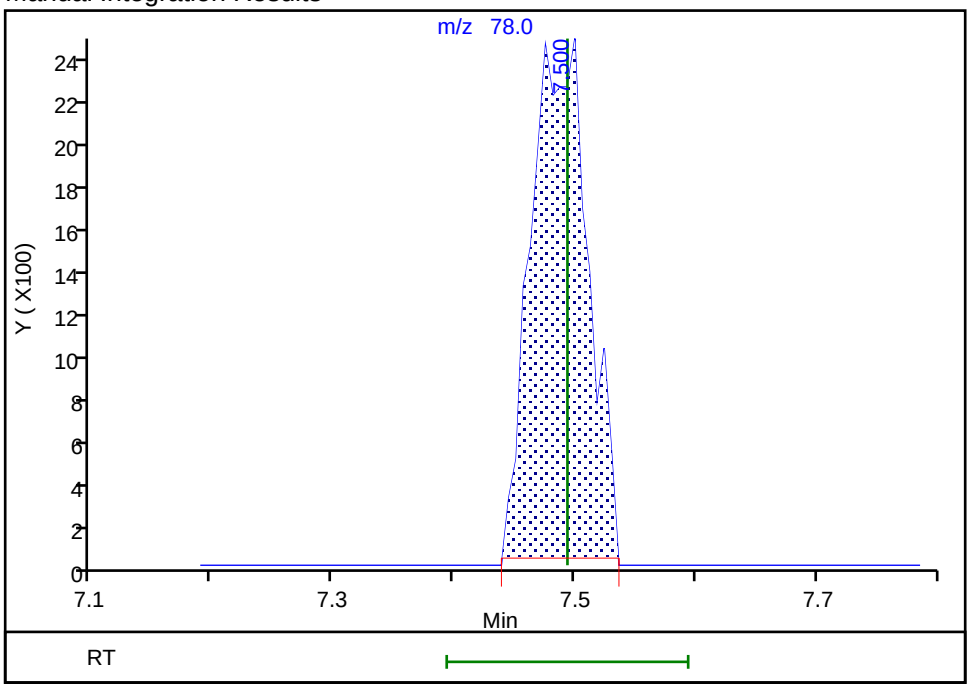
Processing Integration Results

RT: 7.48
Area: 3681
Amount: 0.158491
Amount Units: ug/l



Manual Integration Results

RT: 7.50
Area: 7909
Amount: 0.340534
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 20:36:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-7D-20210623 Lab Sample ID: 410-45105-7

Matrix: Groundwater Lab File ID: NL06S07.D

Analysis Method: 8260C Date Collected: 06/23/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 13:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S07.D
Lims ID: 410-45105-C-7
Client ID: MW-7D-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 13:14:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-014
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.367	4.373	-0.006	38	275121	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	7.001	-0.012	93	228990	45.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	93	61394	49.6	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	968918	50.0	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	975552	52.9	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	741604	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	353641	48.1	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	406841	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

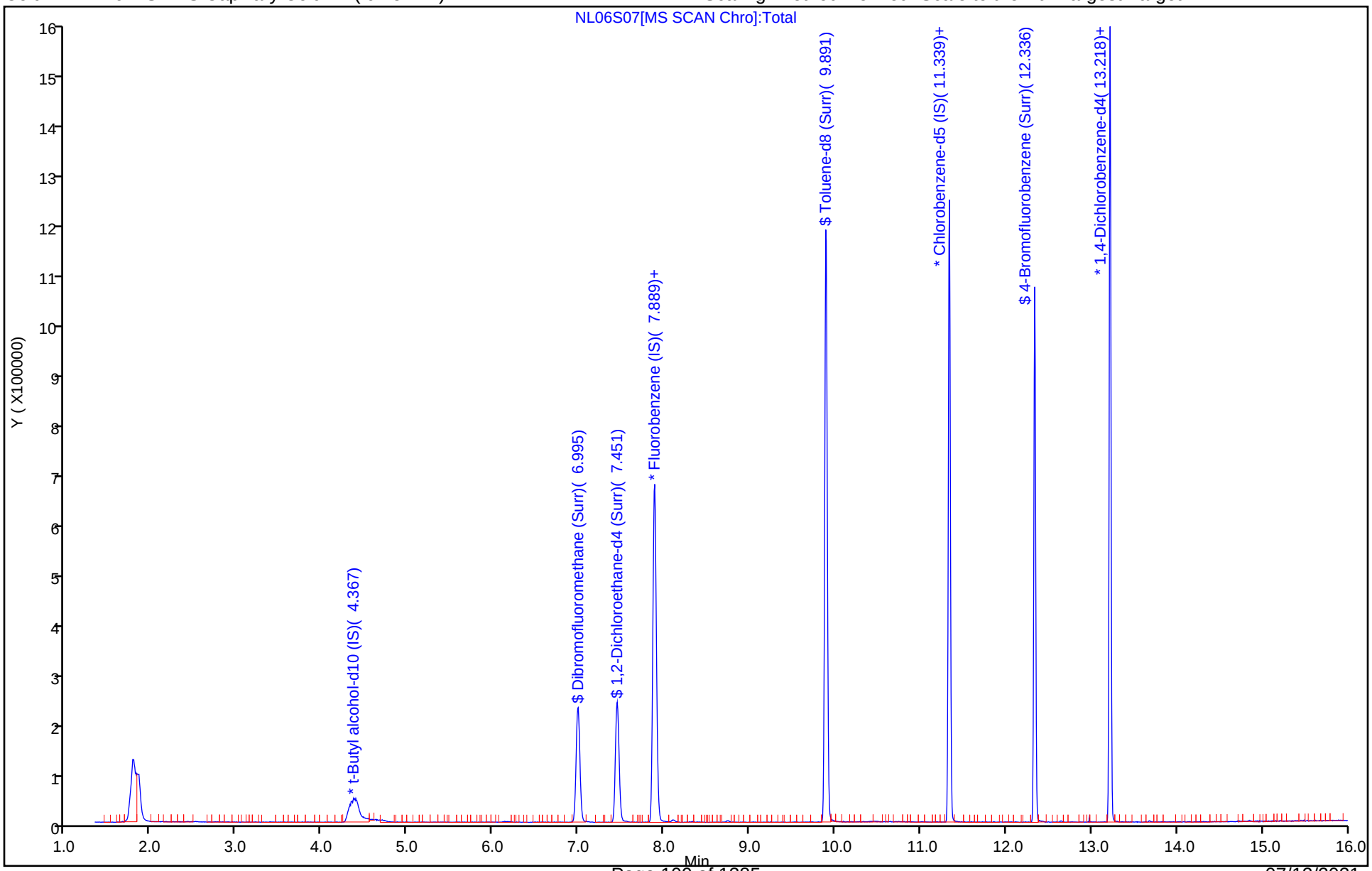
Report Date: 06-Jul-2021 20:48:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S07.D

Injection Date:	06-Jul-2021 13:14:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-7	Lab Sample ID:	410-45105-7	Worklist Smp#:	14
Client ID:	MW-7D-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-14S-20210623 Lab Sample ID: 410-45105-8

Matrix: Groundwater Lab File ID: NL06S08.D

Analysis Method: 8260C Date Collected: 06/23/2021 13:36

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 13:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S08.D
Lims ID: 410-45105-C-8
Client ID: MW-14S-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 13:37:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-015
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.397	4.373	0.024	37	282510	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	93	230377	45.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	63795	51.2	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	974779	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	92	987919	53.1	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	84	747872	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	88	356149	48.1	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	405627	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

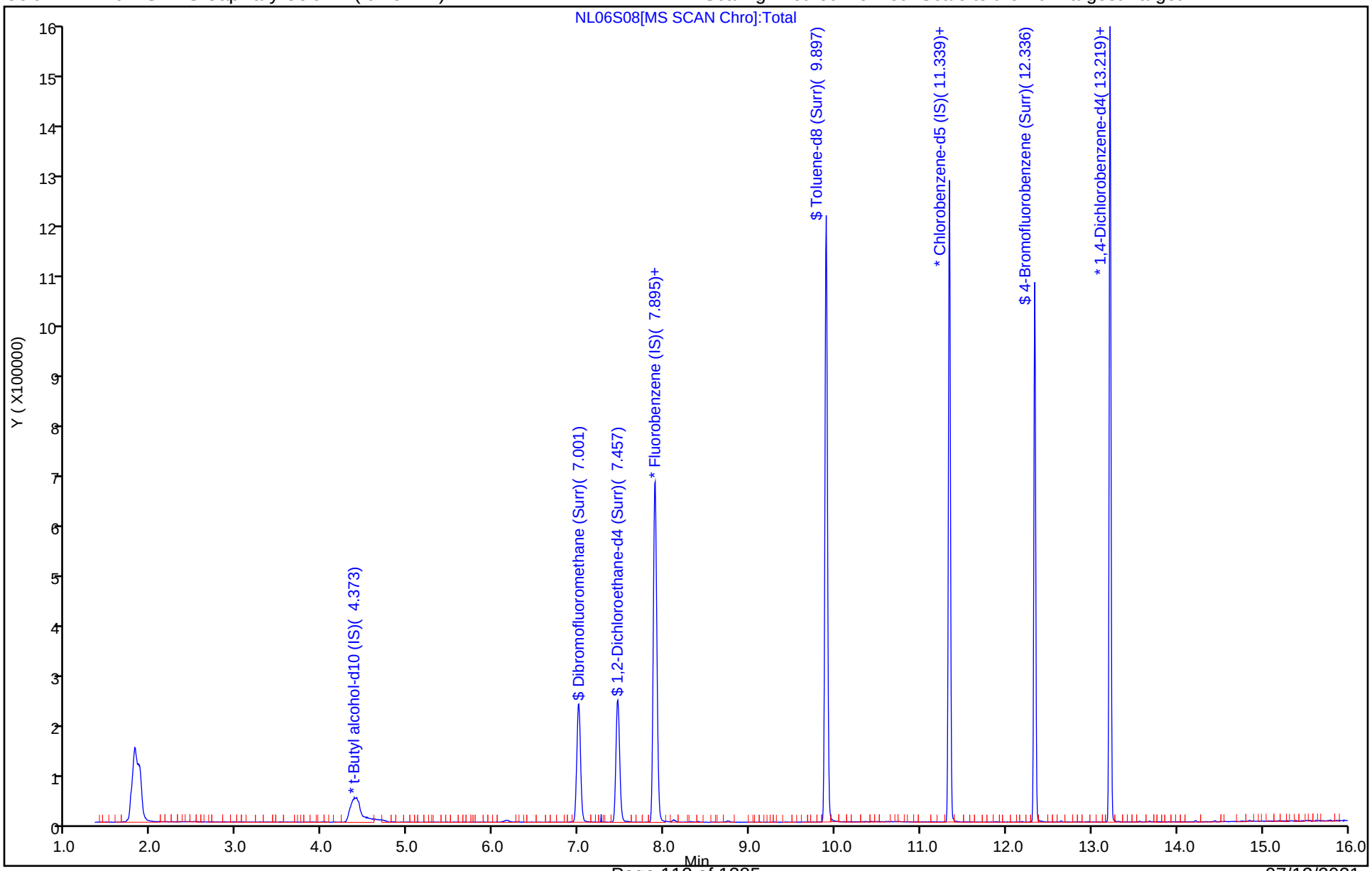
Report Date: 06-Jul-2021 20:48:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S08.D

Injection Date:	06-Jul-2021 13:37:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-8	Lab Sample ID:	410-45105-8	Worklist Smp#:	15
Client ID:	MW-14S-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-14D-20210623 Lab Sample ID: 410-45105-9

Matrix: Groundwater Lab File ID: NL06S09.D

Analysis Method: 8260C Date Collected: 06/23/2021 14:15

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S09.D
Lims ID: 410-45105-C-9
Client ID: MW-14D-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 14:00:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-016
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.391	4.373	0.018	38	267504	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	94	234731	46.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	93	64205	51.9	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	968093	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	984683	53.3	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	742460	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	354114	48.1	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	406175	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

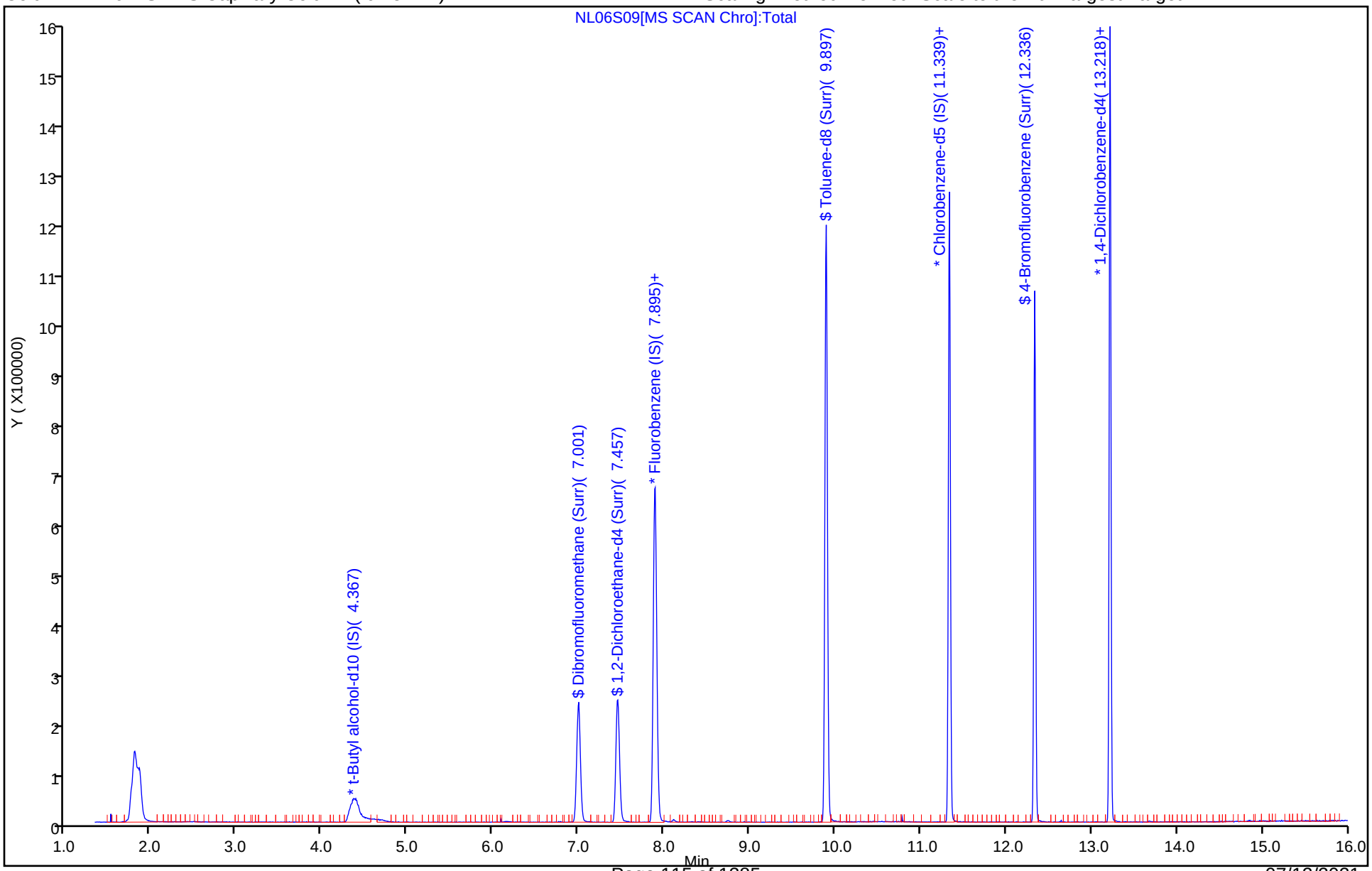
Report Date: 06-Jul-2021 20:48:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S09.D

Injection Date:	06-Jul-2021 14:00:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-9	Lab Sample ID:	410-45105-9	Worklist Smp#:	16
Client ID:	MW-14D-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-12S-20210623 Lab Sample ID: 410-45105-10

Matrix: Groundwater Lab File ID: NL06S10.D

Analysis Method: 8260C Date Collected: 06/23/2021 15:06

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 14:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S10.D
Lims ID: 410-45105-C-10
Client ID: MW-12S-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 14:23:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-017
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.367	4.373	-0.006	38	268225	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	94	229861	44.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	62223	49.7	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	979951	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	982365	53.5	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	738121	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	350245	47.9	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	95	400788	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

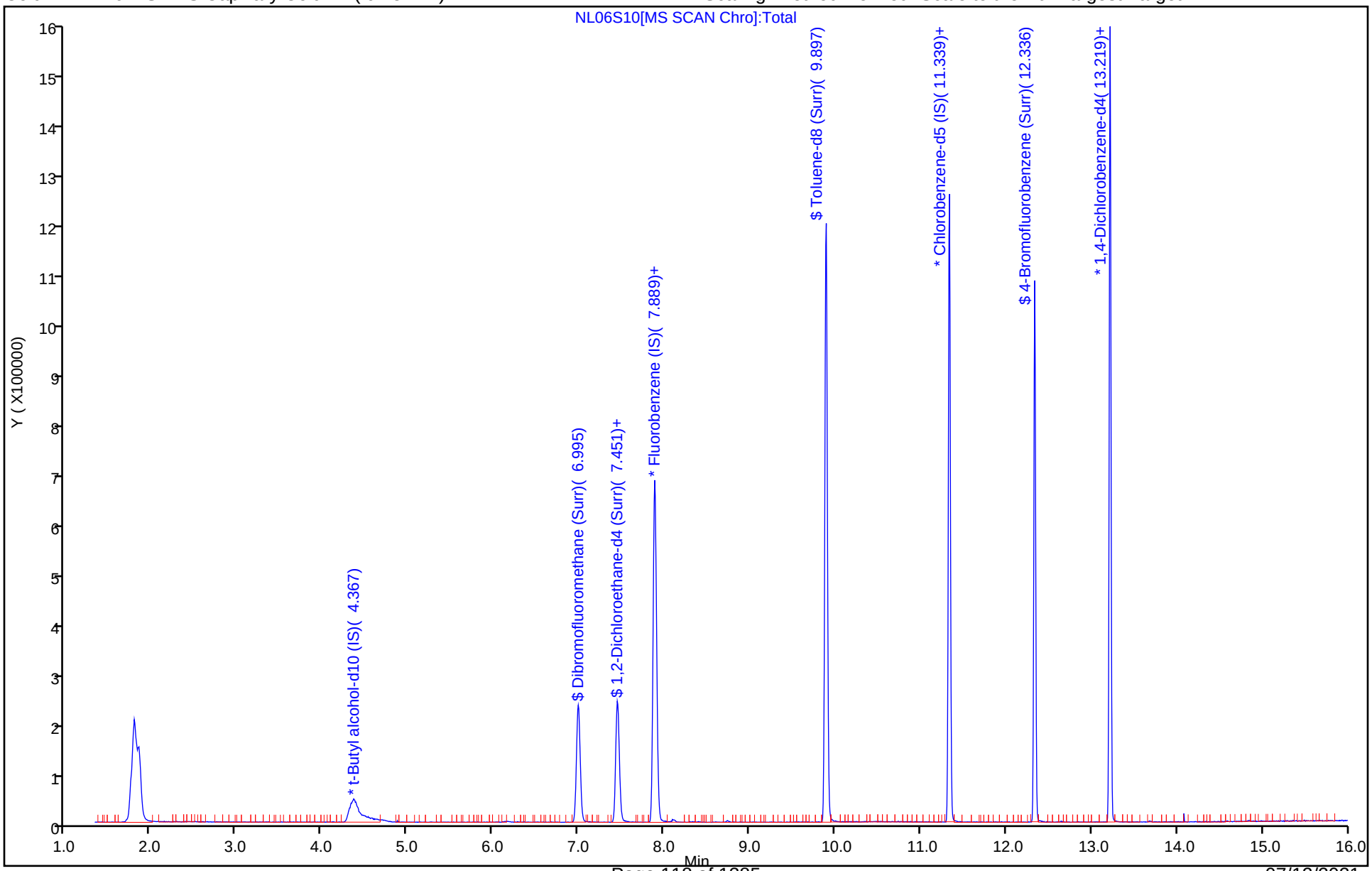
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 20:48:31 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S10.D				
Injection Date:	06-Jul-2021 14:23:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-10	Lab Sample ID:	410-45105-10	Worklist Smp#:	17
Client ID:	MW-12S-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-12D-20210623 Lab Sample ID: 410-45105-11

Matrix: Groundwater Lab File ID: NL06S11.D

Analysis Method: 8260C Date Collected: 06/23/2021 15:46

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S11.D
Lims ID: 410-45105-C-11
Client ID: MW-12D-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 14:46:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-018
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.373	0.000	38	264098	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	93	228074	45.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	93	60628	49.2	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	963793	50.0	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	973792	52.9	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	739732	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	351071	47.9	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	400170	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

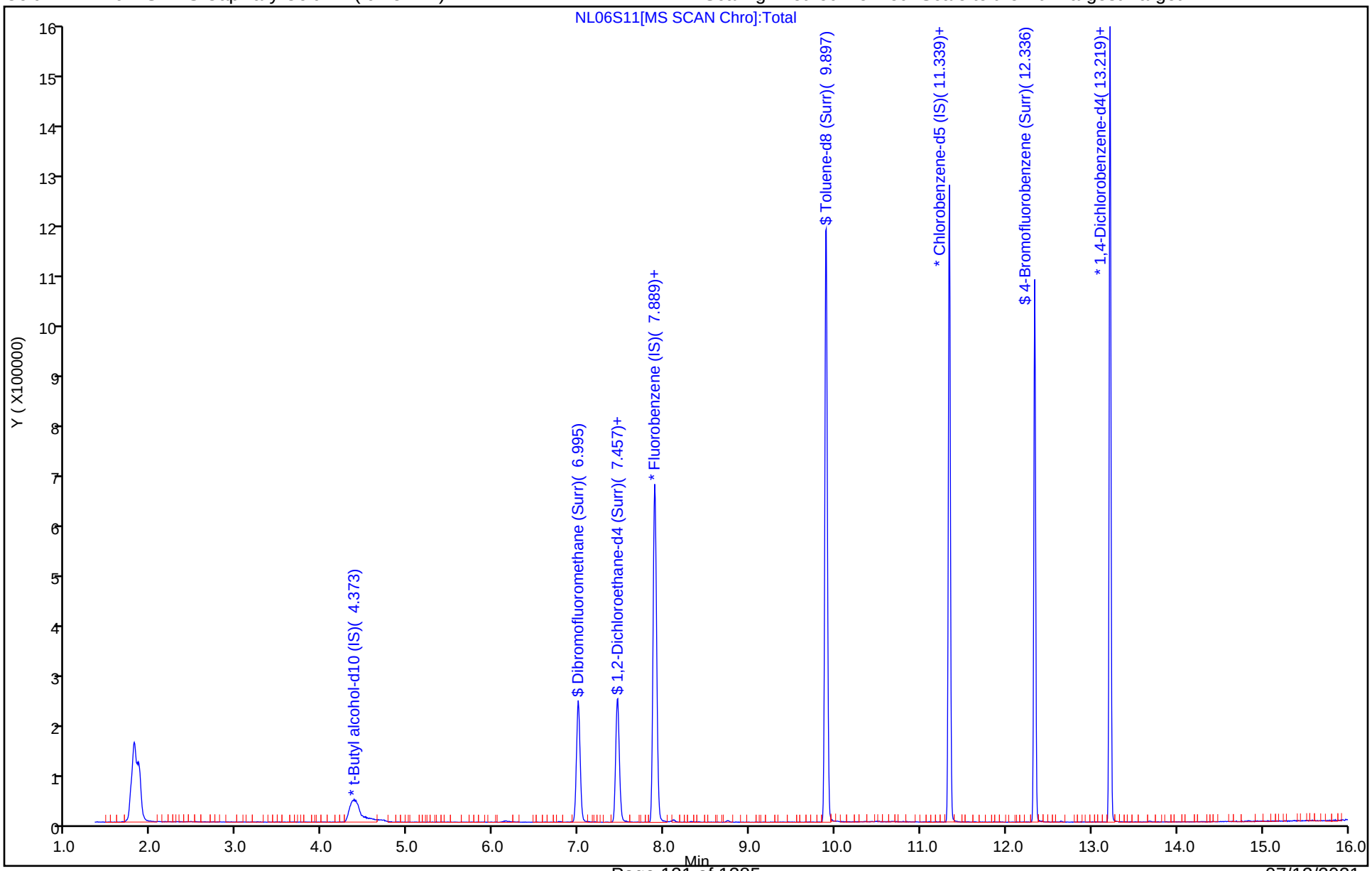
Report Date: 06-Jul-2021 20:48:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S11.D

Injection Date:	06-Jul-2021 14:46:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-11	Lab Sample ID:	410-45105-11	Worklist Smp#:	18
Client ID:	MW-12D-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-11S-20210623 Lab Sample ID: 410-45105-12

Matrix: Groundwater Lab File ID: NL06S12.D

Analysis Method: 8260C Date Collected: 06/23/2021 16:33

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 15:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.97	J	1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	0.61	J	1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S12.D
Lims ID: 410-45105-C-12
Client ID: MW-11S-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 15:09:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-019
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 20:37:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.379	4.373	0.006	38	286484	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	93	231125	45.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	93	61711	50.0	
60 Benzene	78	7.488	7.494	-0.006	89	22224	0.9673	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	965602	50.0	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	986871	53.1	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106				0		1.47	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	747830	50.0	
97 Ethylbenzene	91		11.448				ND	7
98 m-Xylene & p-Xylene	106	11.570	11.564	0.006	99	10189	0.8594	
99 o-Xylene	106	11.892	11.892	0.000	95	7127	0.6092	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	355745	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	407729	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

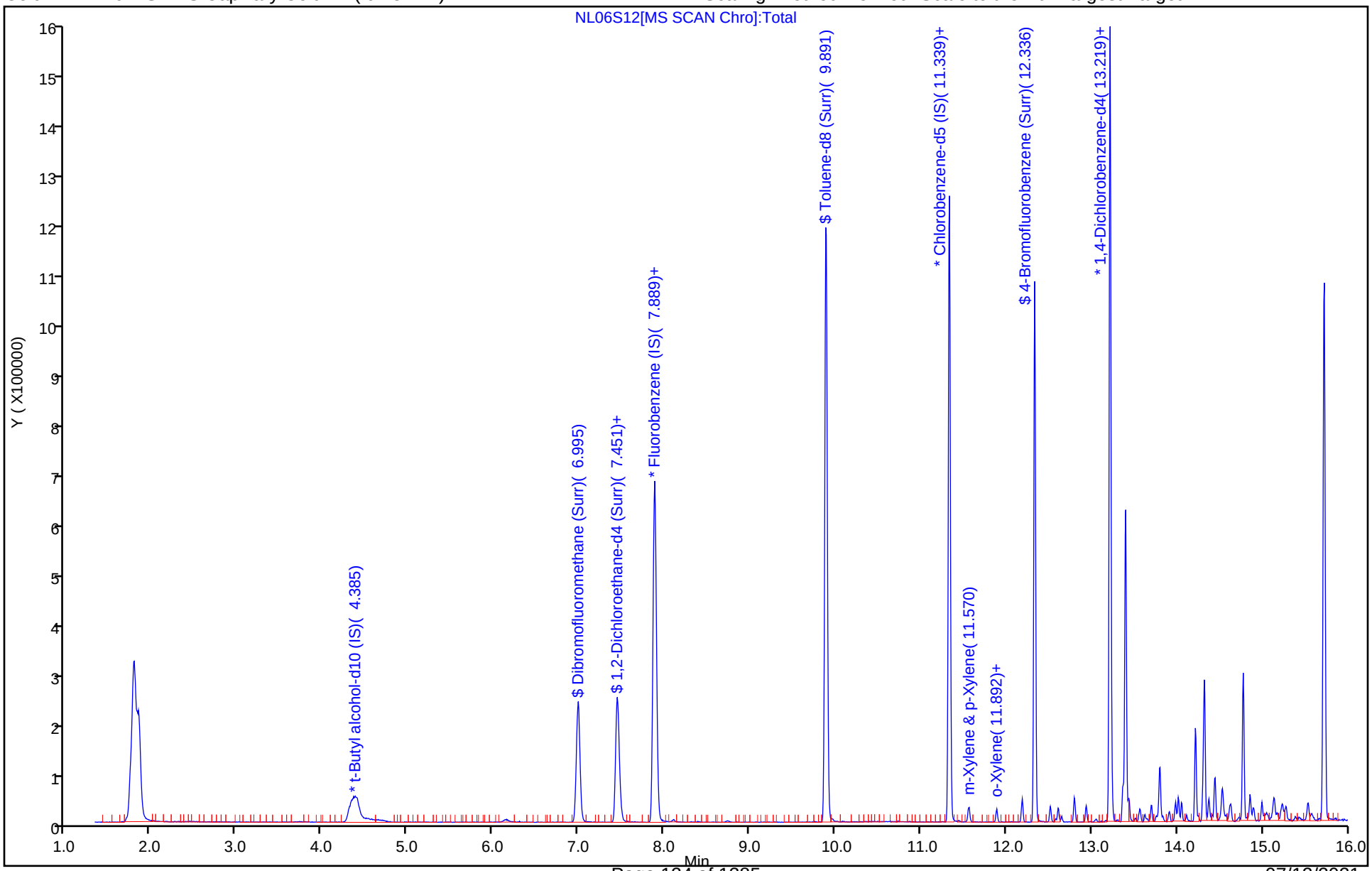
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 20:48:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S12.D				
Injection Date:	06-Jul-2021 15:09:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-12	Lab Sample ID:	410-45105-12	Worklist Smp#:	19
Client ID:	MW-11S-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 06-Jul-2021 20:48:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S12.D

Injection Date: 06-Jul-2021 15:09:30 Instrument ID: 7159

Lims ID: 410-45105-C-12 Lab Sample ID: 410-45105-12

Client ID: MW-11S-20210623

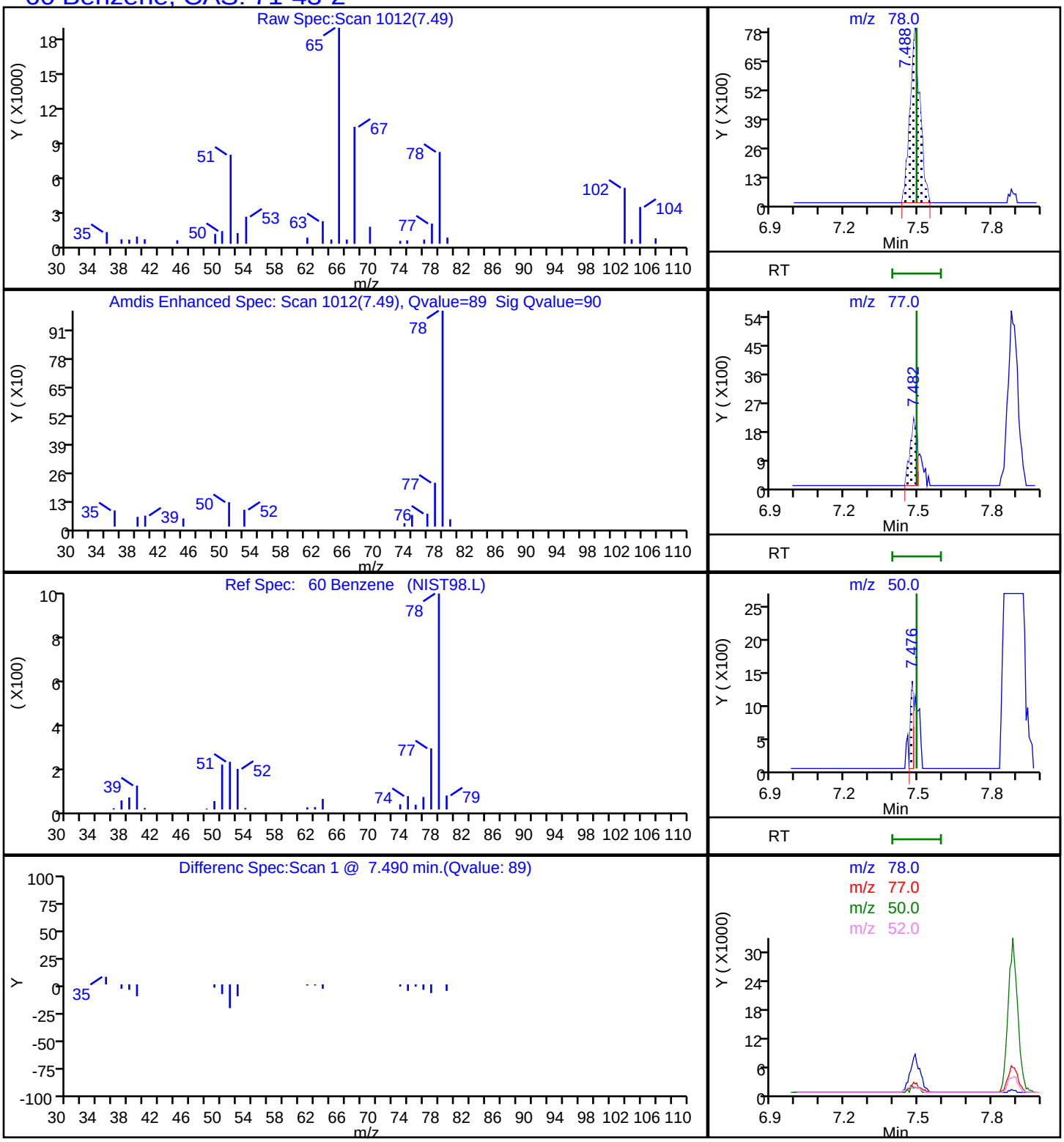
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

60 Benzene, CAS: 71-43-2



Report Date: 06-Jul-2021 20:48:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S12.D

Injection Date: 06-Jul-2021 15:09:30 Instrument ID: 7159

Lims ID: 410-45105-C-12 Lab Sample ID: 410-45105-12

Client ID: MW-11S-20210623

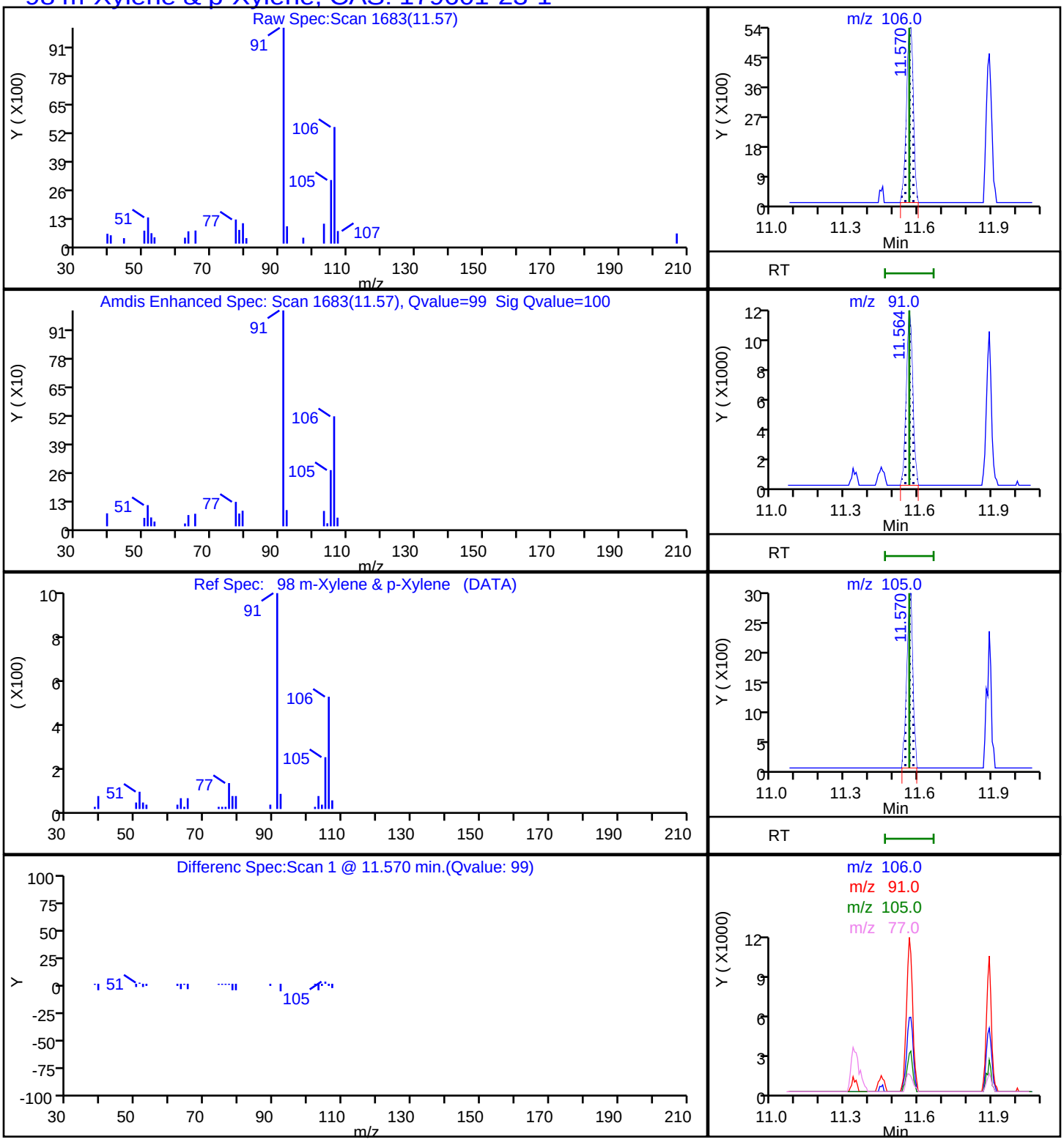
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

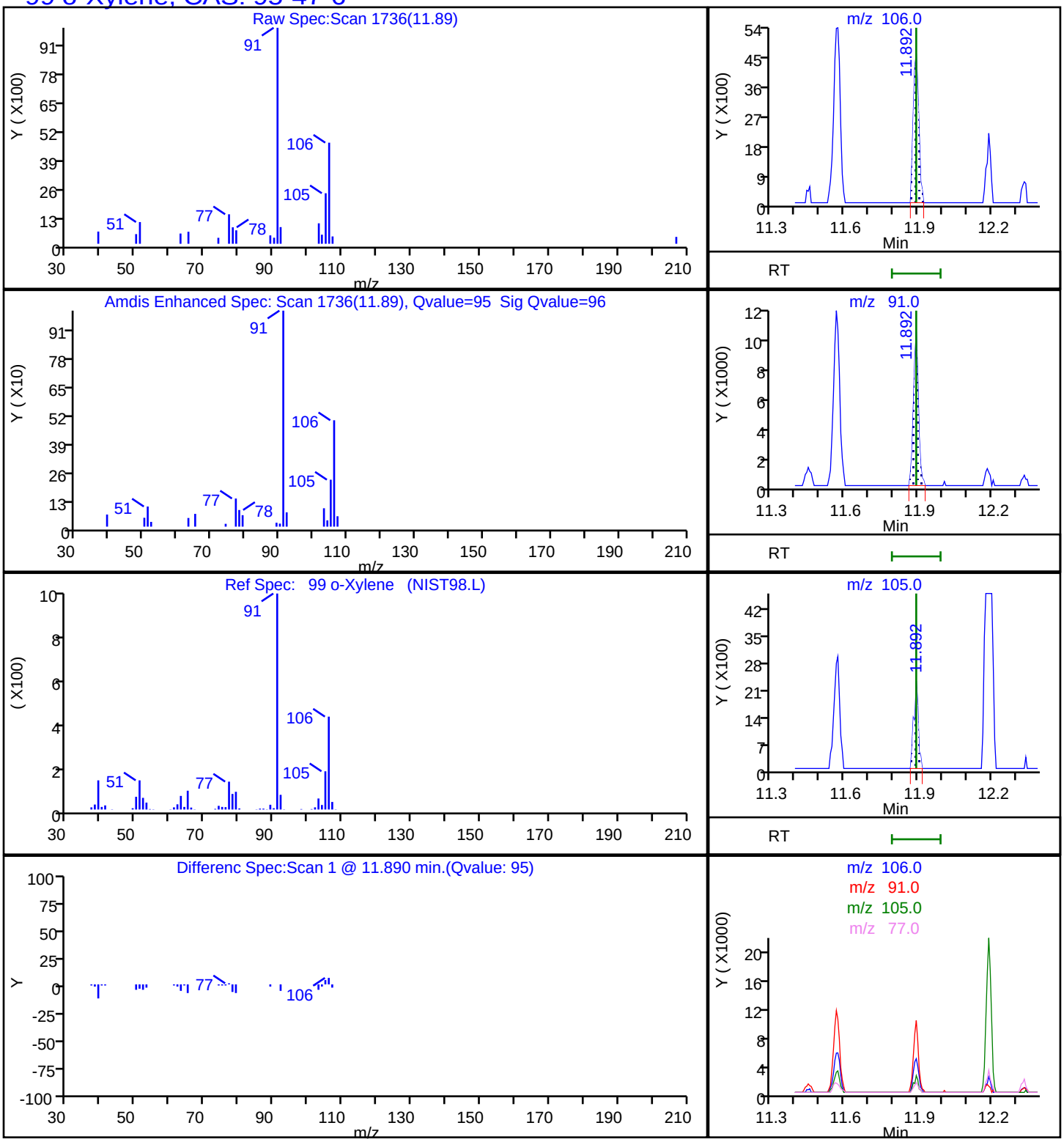
98 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S12.D				
Injection Date:	06-Jul-2021 15:09:30	Instrument ID:	7159		
Lims ID:	410-45105-C-12	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	lcp00895	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-11D-20210623 Lab Sample ID: 410-45105-13

Matrix: Groundwater Lab File ID: NL06S13.D

Analysis Method: 8260C Date Collected: 06/23/2021 17:19

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 15:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S13.D
Lims ID: 410-45105-C-13
Client ID: MW-11D-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 15:32:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-020
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 20:37:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.361	4.373	-0.012	38	229047	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	7.001	-0.012	94	227646	45.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	93	63418	51.7	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	960041	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	990475	53.7	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	741362	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	352567	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	400950	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

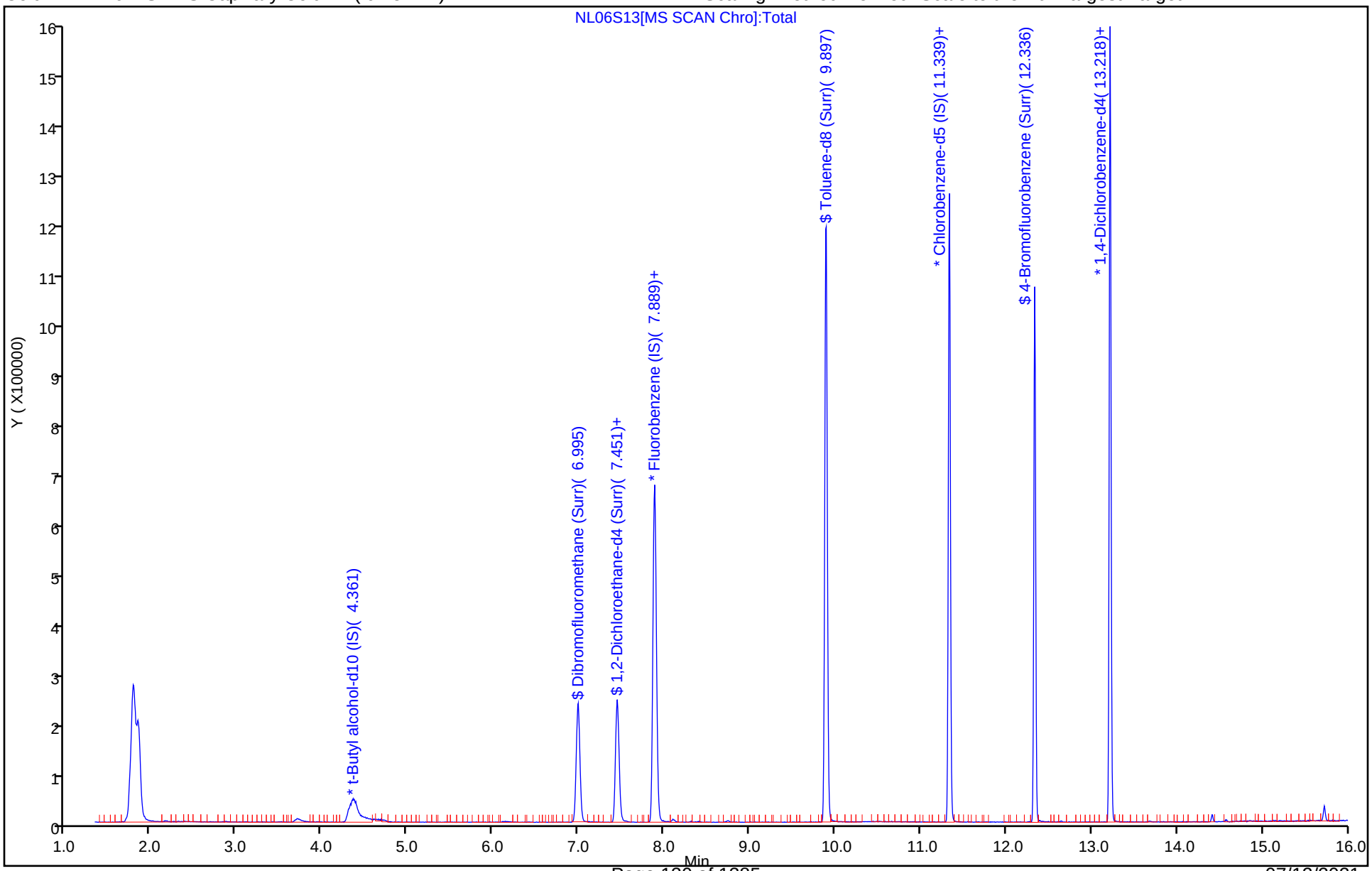
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 20:48:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S13.D				
Injection Date:	06-Jul-2021 15:32:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-13	Lab Sample ID:	410-45105-13	Worklist Smp#:	20
Client ID:	MW-11D-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-4S-20210624 Lab Sample ID: 410-45105-14

Matrix: Groundwater Lab File ID: NL06S42.D

Analysis Method: 8260C Date Collected: 06/24/2021 08:53

Sample wt/vol: 5(mL) Date Analyzed: 07/07/2021 01:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.70	J	1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06S42.D
Lims ID: 410-45105-C-14
Client ID: MW-4S-20210624
Sample Type: Client
Inject. Date: 07-Jul-2021 01:10:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033637-014
Misc. Info.: 410-45105-C-14
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 14:03:50 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: papel Date: 07-Jul-2021 13:53:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.361	0.012	38	256153	250.0	
33 Methyl tert-butyl ether	73		4.787				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	93	221536	45.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	62135	52.6	
60 Benzene	78	7.482	7.488	-0.006	41	15351	0.6977	M
* 64 Fluorobenzene (IS)	96	7.889	7.889	0.000	99	924738	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	949665	53.2	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	718167	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	90	338068	47.5	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.000	94	392807	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

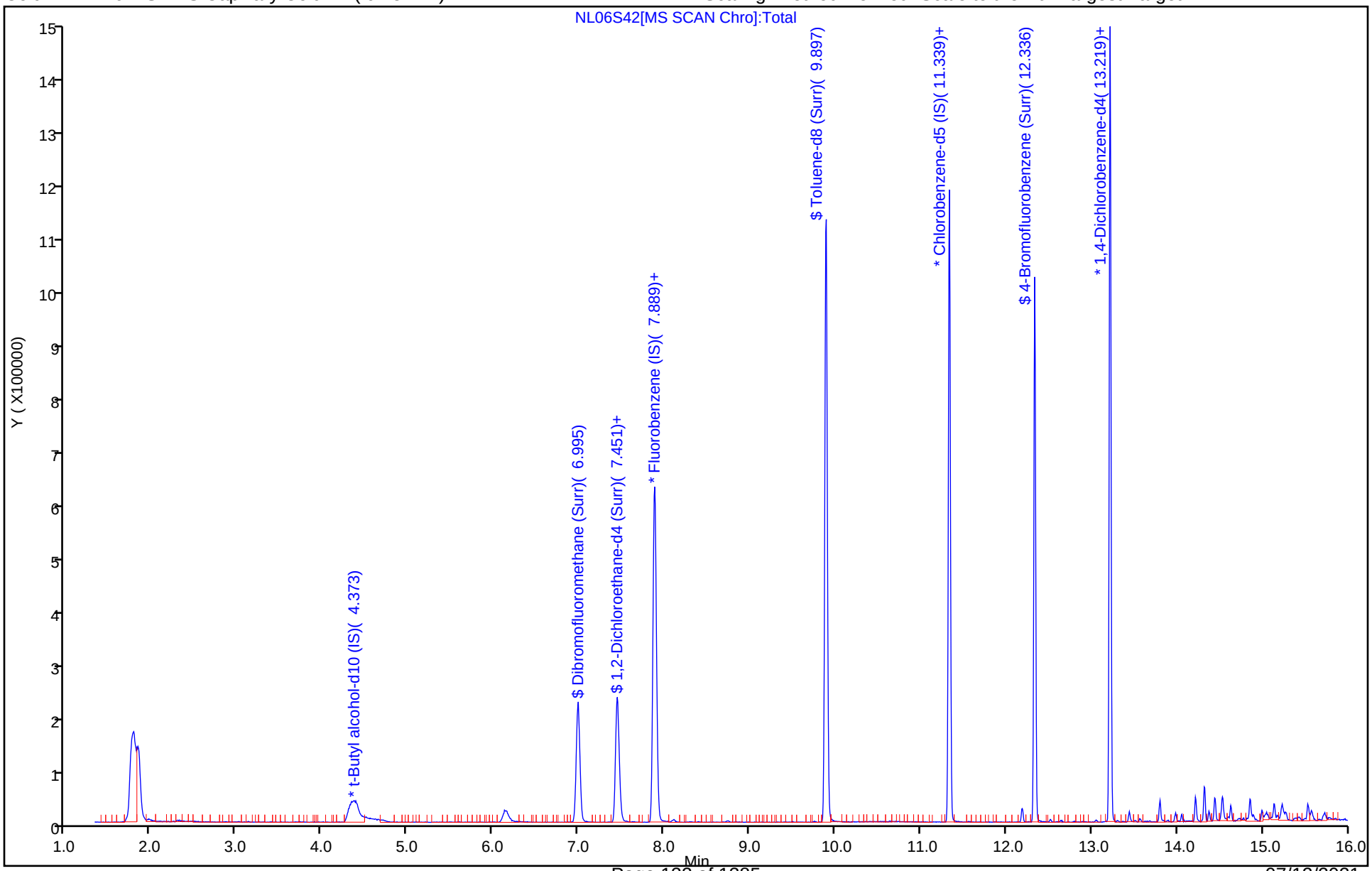
Report Date: 07-Jul-2021 14:06:56 Chrom Revision: 2.3 30-Jun-2021 09:43:24

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06S42.D

Injection Date:	07-Jul-2021 01:10:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-14	Lab Sample ID:	410-45105-14	Worklist Smp#:	14
Client ID:	MW-4S-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

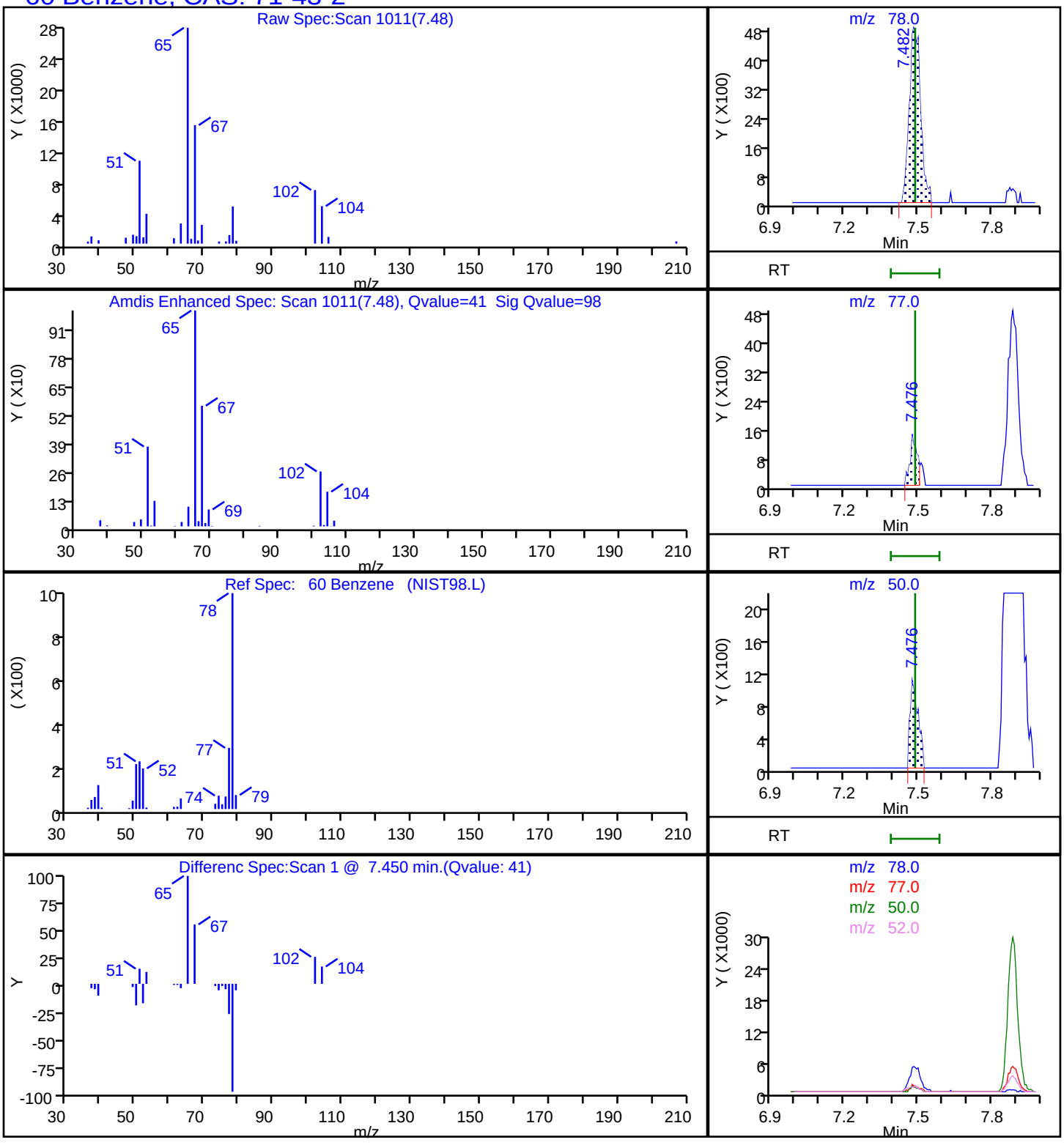
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06S42.D
Injection Date: 07-Jul-2021 01:10:30 Instrument ID: 7159
Lims ID: 410-45105-C-14 Lab Sample ID: 410-45105-14
Client ID: MW-4S-20210624
Operator ID: etp33087 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

60 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Env, LLC

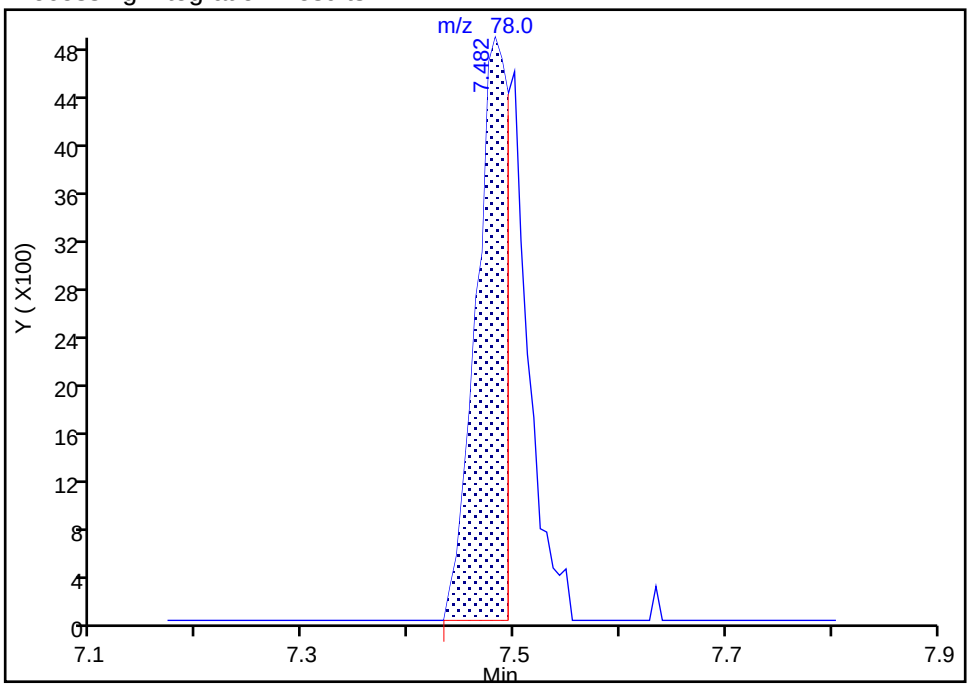
Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06S42.D				
Injection Date:	07-Jul-2021 01:10:30	Instrument ID:	7159		
Lims ID:	410-45105-C-14	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	etp33087	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 Benzene, CAS: 71-43-2

Signal: 1

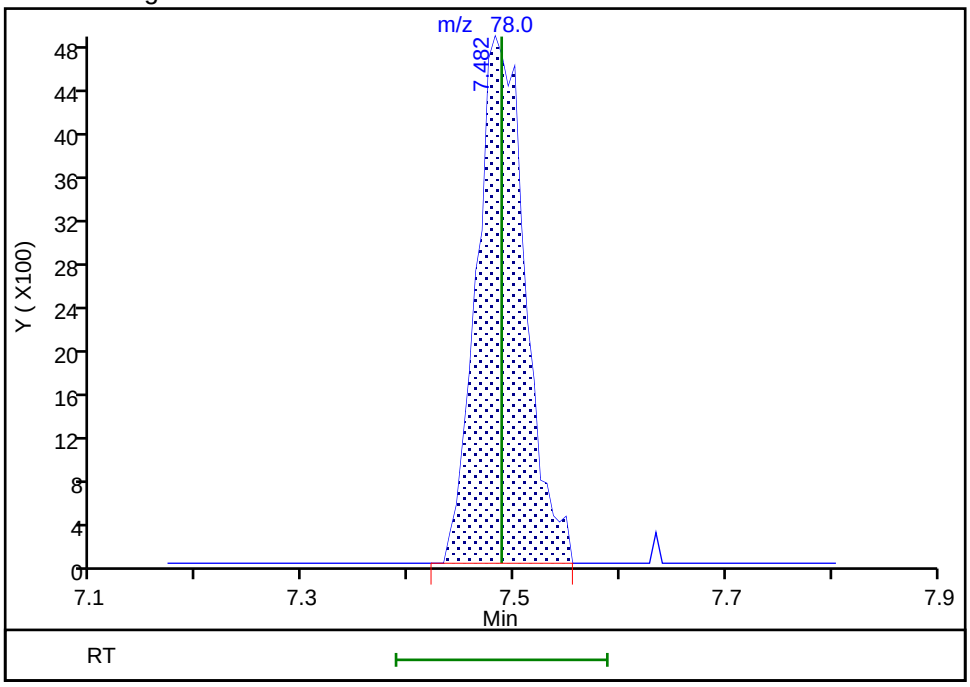
Processing Integration Results

RT: 7.48
Area: 10149
Amount: 0.461254
Amount Units: ug/l



Manual Integration Results

RT: 7.48
Area: 15351
Amount: 0.697675
Amount Units: ug/l



Reviewer: papel, 07-Jul-2021 13:53:04
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-4D-20210624 Lab Sample ID: 410-45105-15

Matrix: Groundwater Lab File ID: NL07S43.D

Analysis Method: 8260C Date Collected: 06/24/2021 09:33

Sample wt/vol: 5(mL) Date Analyzed: 07/08/2021 01:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S43.D
Lims ID: 410-45105-C-15
Client ID: MW-4D-20210624
Sample Type: Client
Inject. Date: 08-Jul-2021 01:42:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-015
Misc. Info.: 410-45105-C-15
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2021 13:10:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 08-Jul-2021 13:00:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.379	4.379	0.000	37	275548	250.0	
33 Methyl tert-butyl ether	73		4.793				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	6.995	-0.006	93	229065	44.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.457	0.000	93	63609	50.2	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	991151	50.0	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	999611	52.7	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	762060	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.337	12.336	0.000	89	363501	48.1	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	414398	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

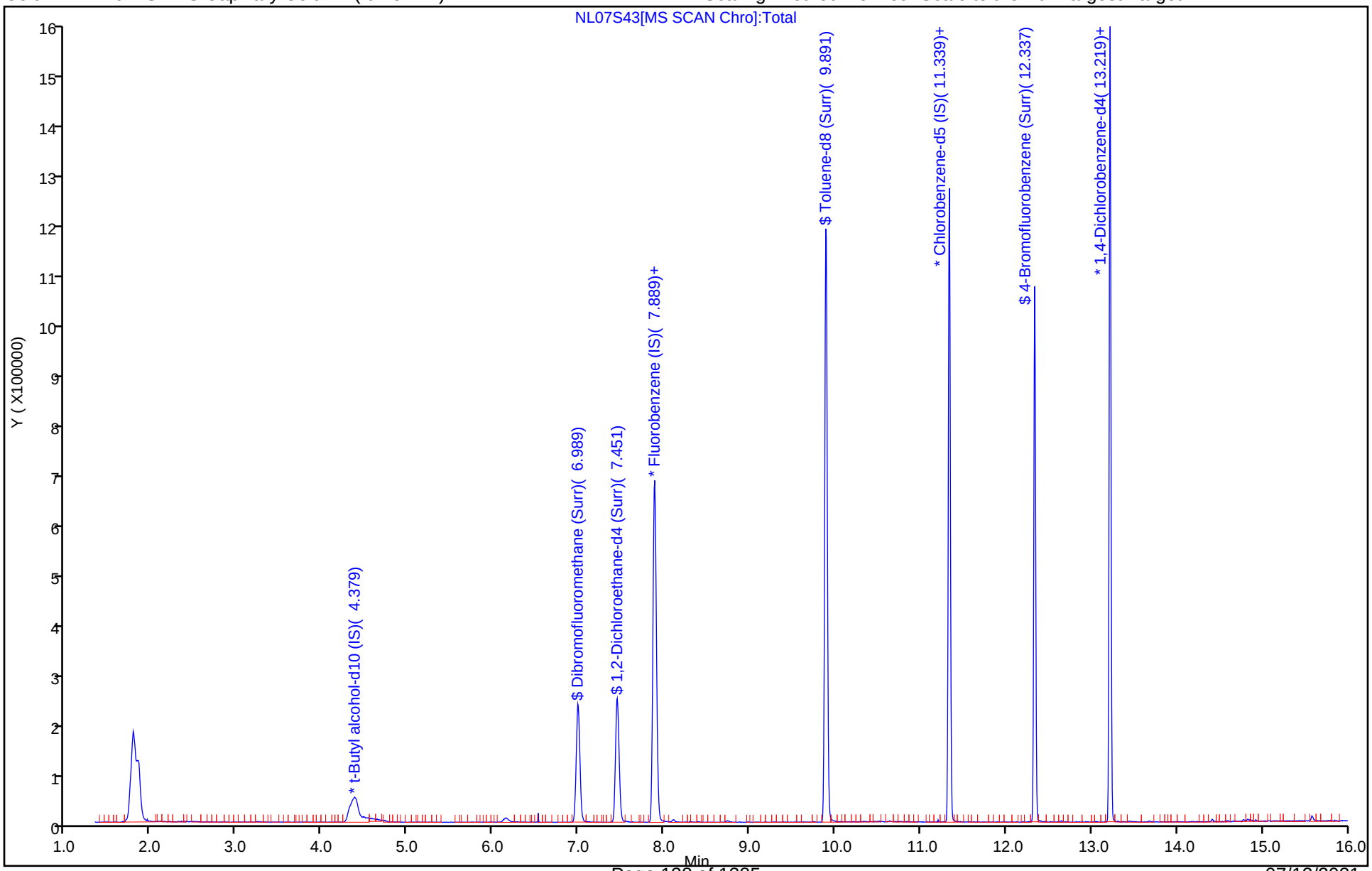
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Jul-2021 13:11:21 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S43.D				
Injection Date:	08-Jul-2021 01:42:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-15	Lab Sample ID:	410-45105-15	Worklist Smp#:	15
Client ID:	MW-4D-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-3-20210624 Lab Sample ID: 410-45105-16

Matrix: Groundwater Lab File ID: NL07S44.D

Analysis Method: 8260C Date Collected: 06/24/2021 10:14

Sample wt/vol: 5(mL) Date Analyzed: 07/08/2021 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.60	J	1.0	0.30
100-41-4	Ethylbenzene	2.8		1.0	0.40
108-88-3	Toluene	0.88	J	1.0	0.20
1330-20-7	Xylenes, Total	4.1		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D
Lims ID: 410-45105-C-16
Client ID: MW-3-20210624
Sample Type: Client
Inject. Date: 08-Jul-2021 02:05:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-016
Misc. Info.: 410-45105-C-16
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2021 13:10:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 08-Jul-2021 13:00:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.361	4.379	-0.018	38	243906	250.0	
33 Methyl tert-butyl ether	73		4.793				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	227839	44.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.457	0.000	92	63104	50.7	
60 Benzene	78	7.482	7.494	-0.012	89	13790	0.5952	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	973688	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	985707	53.2	
82 Toluene	92	9.970	9.970	0.000	97	12776	0.8767	
S 92 Xylenes, Total	106				0		4.11	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	744379	50.0	
97 Ethylbenzene	91	11.448	11.448	0.000	98	81016	2.78	
98 m-Xylene & p-Xylene	106	11.558	11.564	-0.006	98	24820	2.10	
99 o-Xylene	106	11.892	11.892	0.000	96	23405	2.01	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	88	363479	49.3	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	95	408278	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

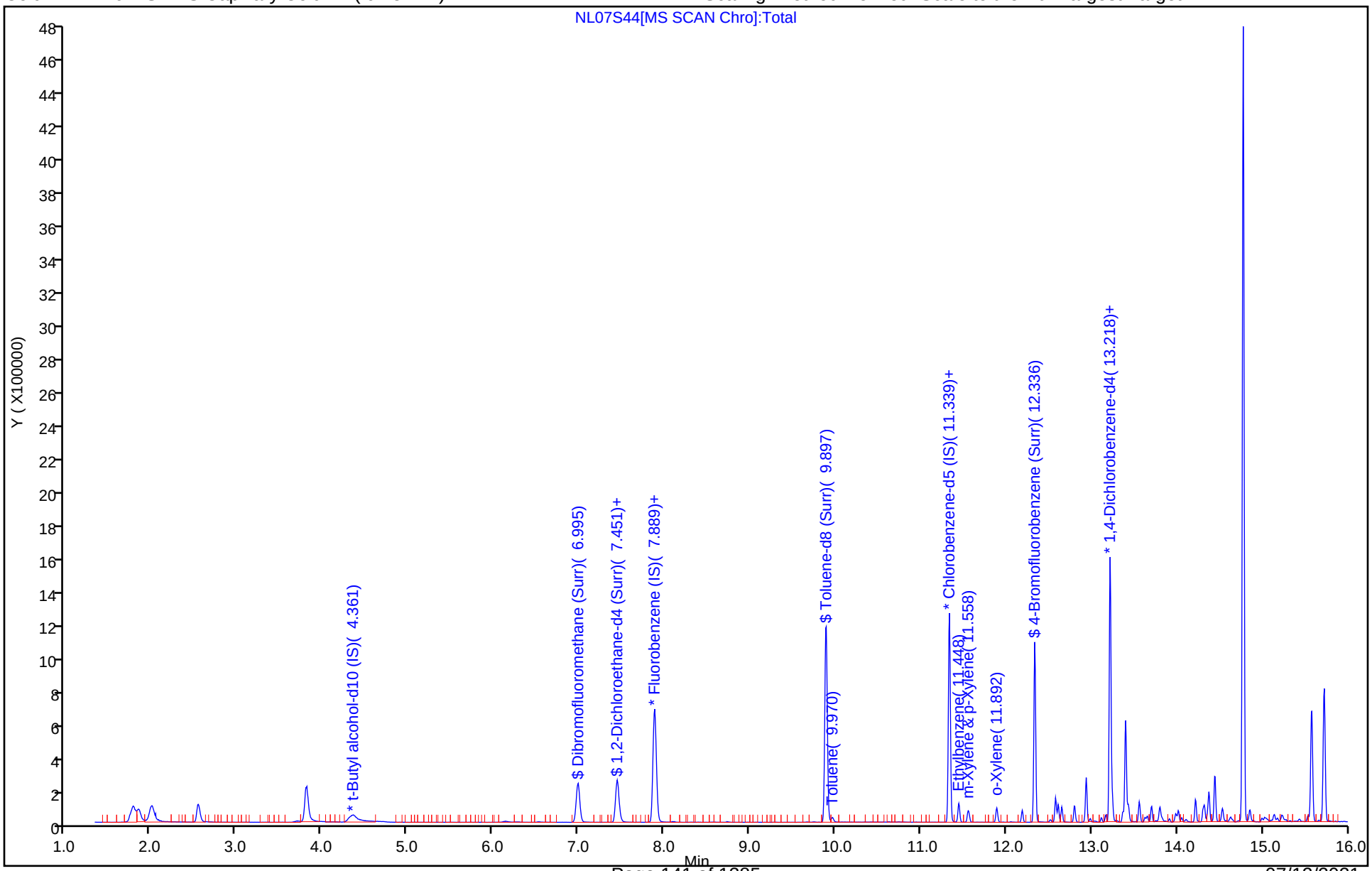
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Jul-2021 13:11:23 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D				
Injection Date:	08-Jul-2021 02:05:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-16	Lab Sample ID:	410-45105-16	Worklist Smp#:	16
Client ID:	MW-3-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 08-Jul-2021 13:11:23 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D

Injection Date: 08-Jul-2021 02:05:30 Instrument ID: 7159

Lims ID: 410-45105-C-16 Lab Sample ID: 410-45105-16

Client ID: MW-3-20210624

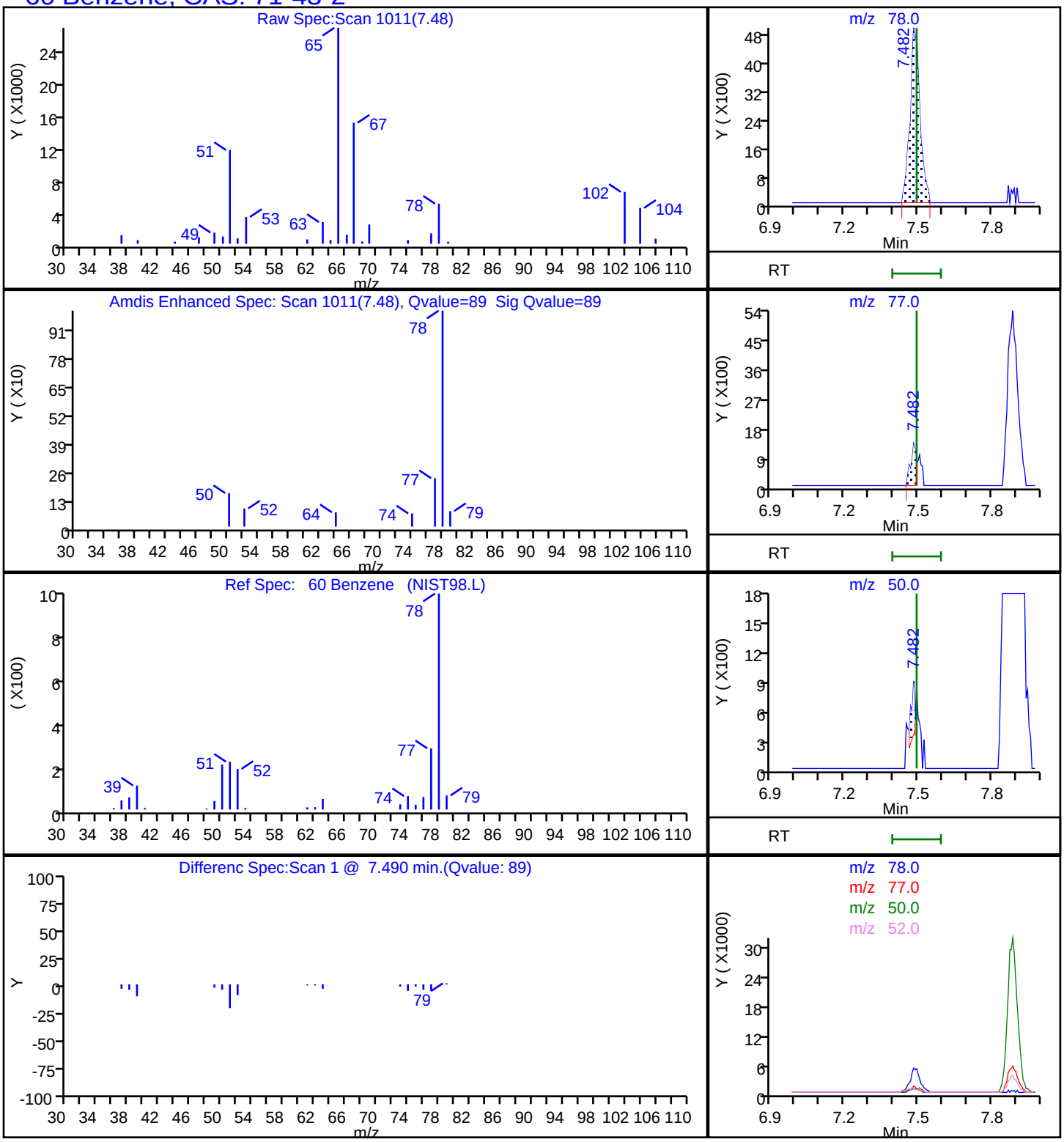
Operator ID: etp33087 ALS Bottle#: 15 Worklist Smp#: 16

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

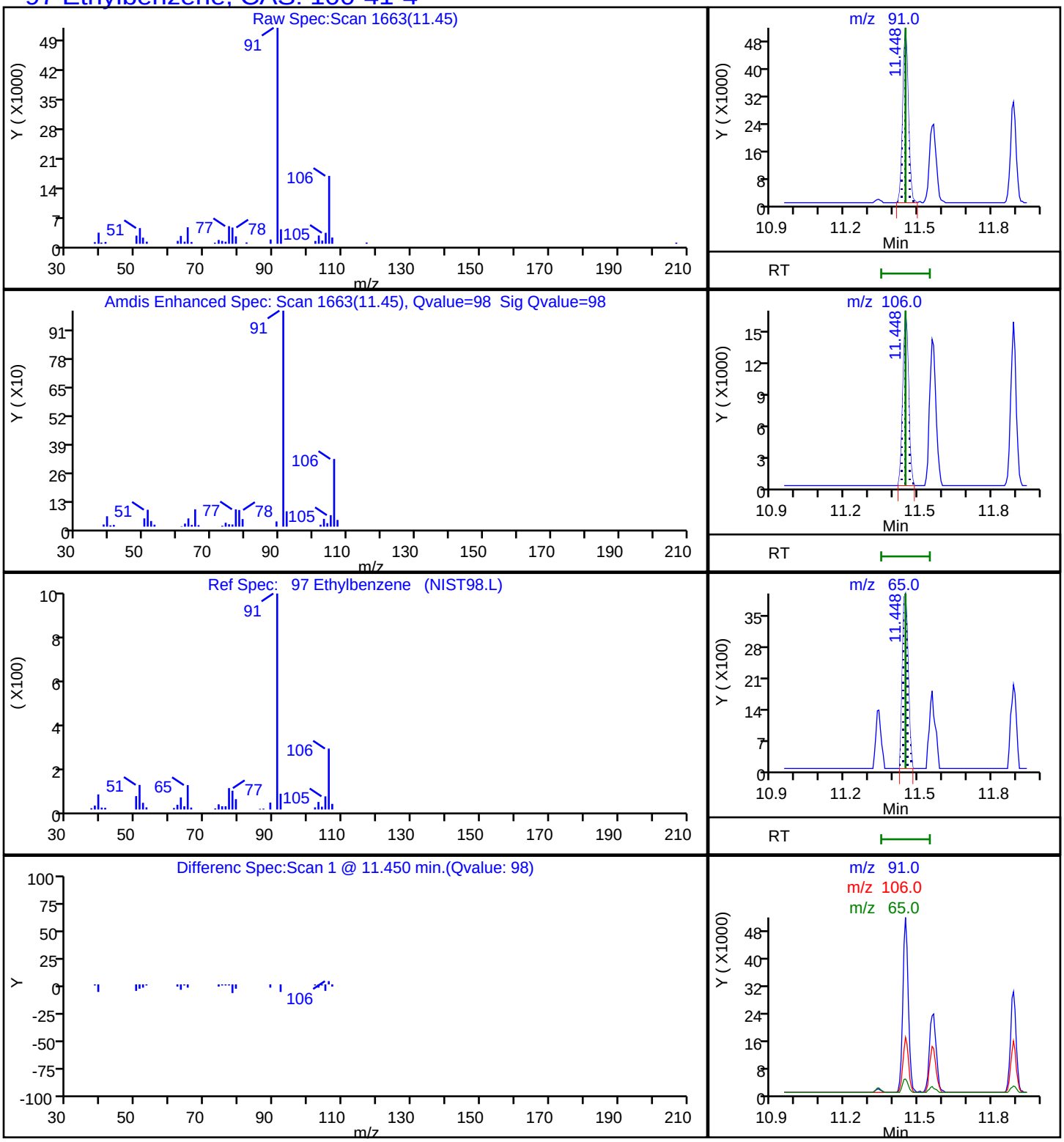
60 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D		
Injection Date:	08-Jul-2021 02:05:30	Instrument ID:	7159
Lims ID:	410-45105-C-16	Lab Sample ID:	410-45105-16
Client ID:	MW-3-20210624		
Operator ID:	etp33087	ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad

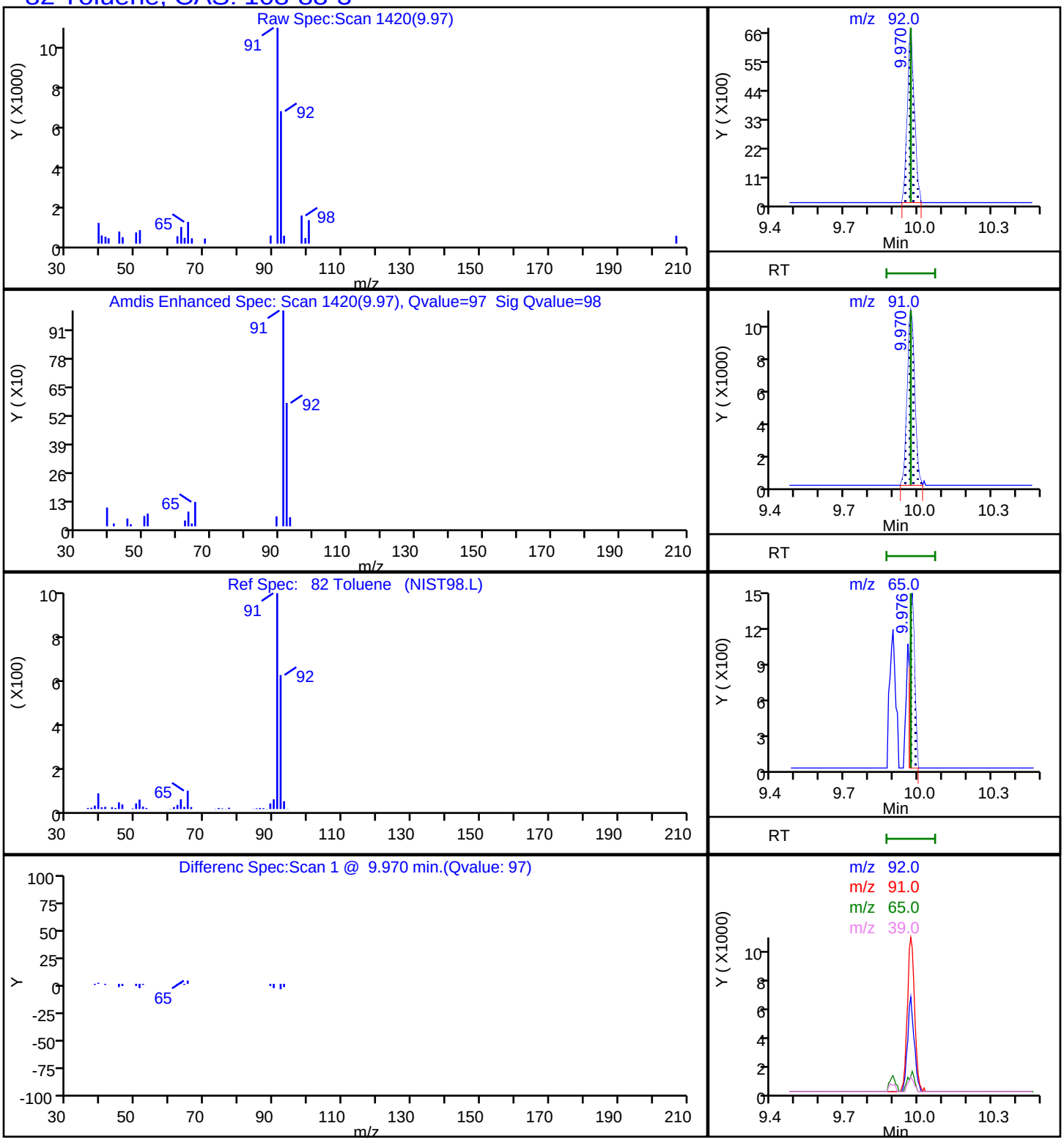
97 Ethylbenzene, CAS: 100-41-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D		
Injection Date:	08-Jul-2021 02:05:30	Instrument ID:	7159
Lims ID:	410-45105-C-16	Lab Sample ID:	410-45105-16
Client ID:	MW-3-20210624		
Operator ID:	etp33087	ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad

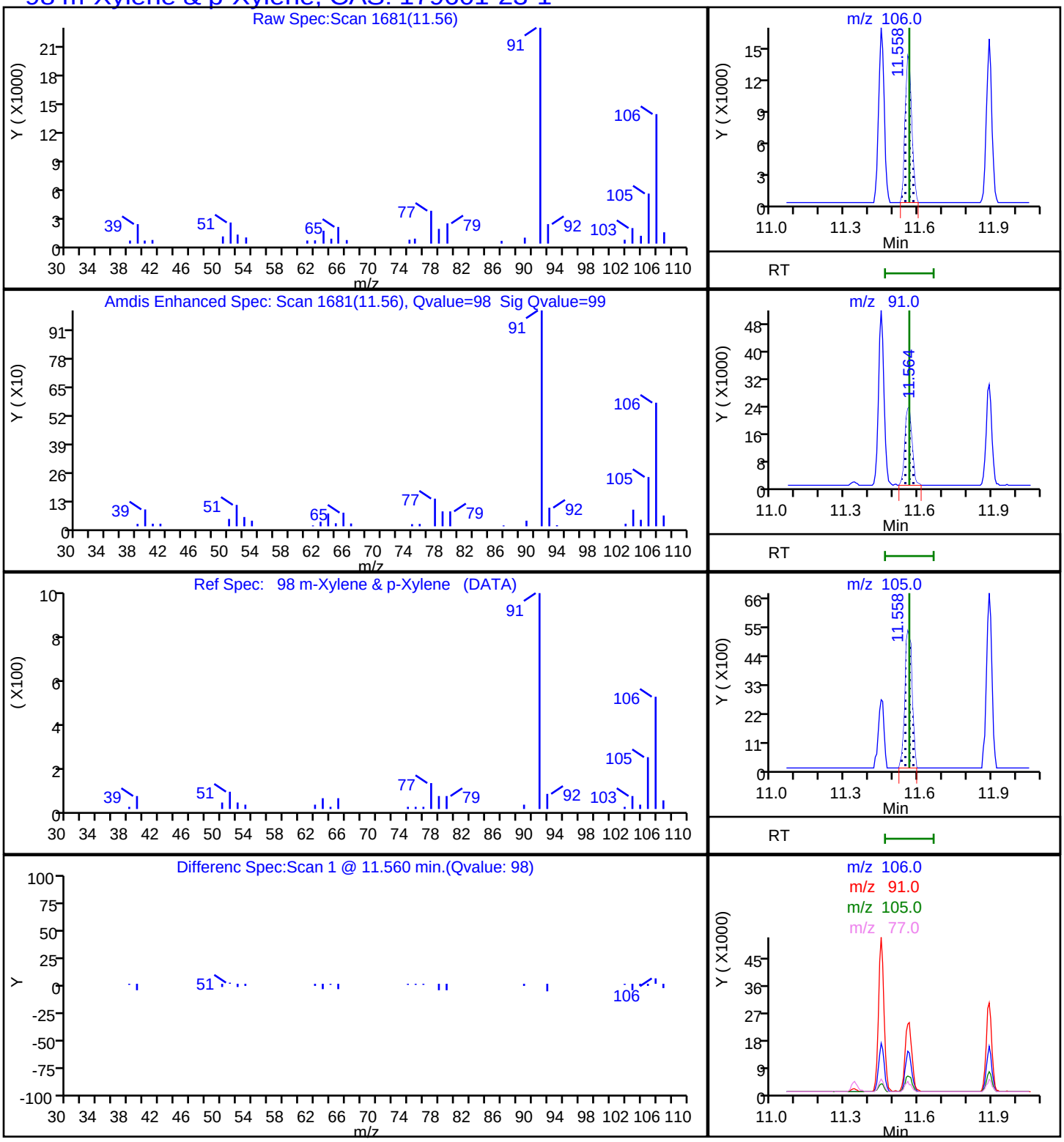
82 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D				
Injection Date:	08-Jul-2021 02:05:30	Instrument ID:	7159		
Lims ID:	410-45105-C-16	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	etp33087	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 08-Jul-2021 13:11:23 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S44.D

Injection Date: 08-Jul-2021 02:05:30 Instrument ID: 7159

Lims ID: 410-45105-C-16 Lab Sample ID: 410-45105-16

Client ID: MW-3-20210624

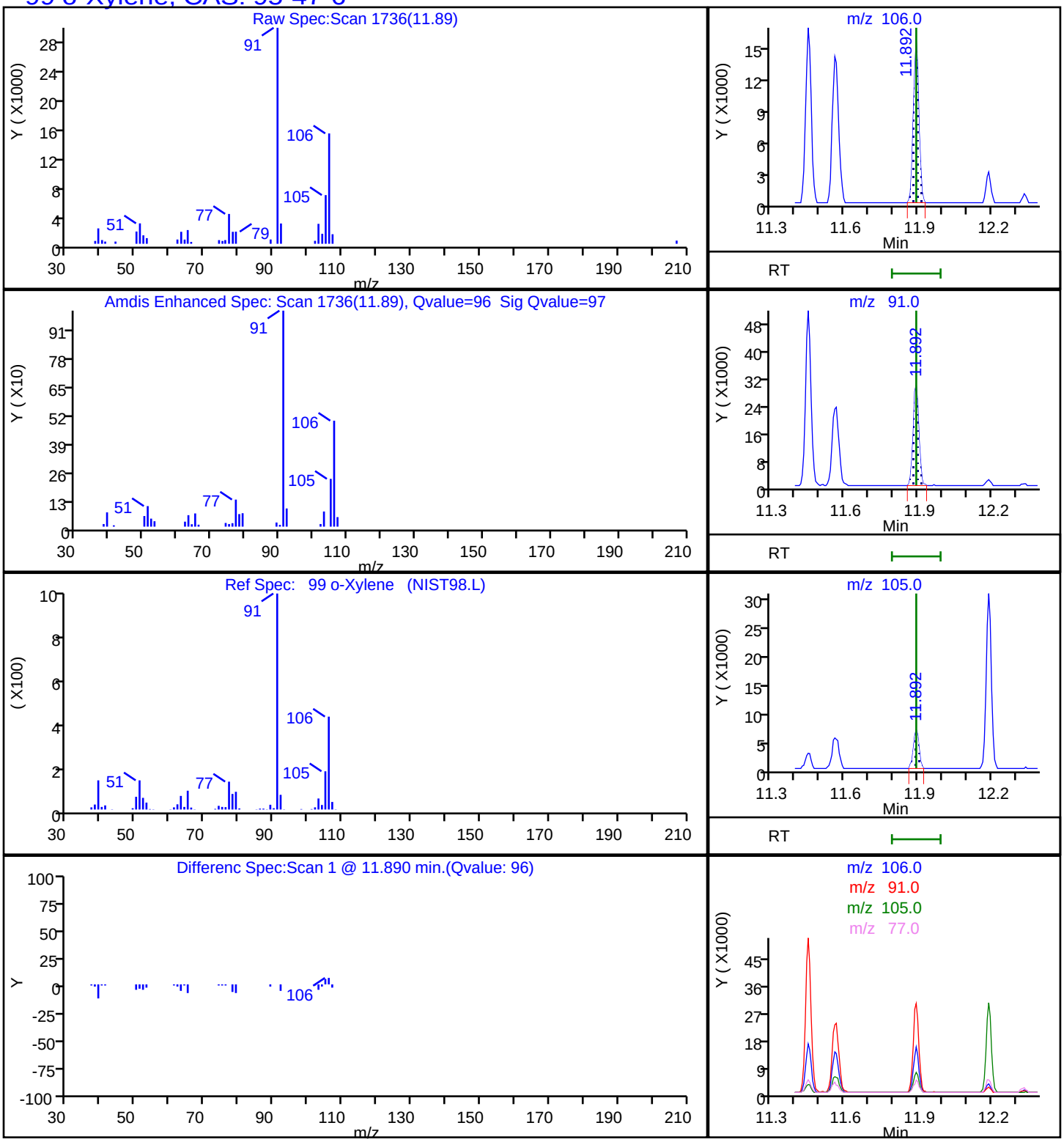
Operator ID: etp33087 ALS Bottle#: 15 Worklist Smp#: 16

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-13S-20210624 Lab Sample ID: 410-45105-17

Matrix: Groundwater Lab File ID: NL07S52.D

Analysis Method: 8260C Date Collected: 06/24/2021 10:53

Sample wt/vol: 5(mL) Date Analyzed: 07/08/2021 05:10

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		5.0	1.5
100-41-4	Ethylbenzene	3.0	J	5.0	2.0
108-88-3	Toluene	ND		5.0	1.0
1330-20-7	Xylenes, Total	2.3	J	5.0	2.0
1634-04-4	Methyl tertiary butyl ether	ND		5.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S52.D
Lims ID: 410-45105-C-17
Client ID: MW-13S-20210624
Sample Type: Client
Inject. Date: 08-Jul-2021 05:10:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 410-0033734-024
Misc. Info.: 410-45105-C-17
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2021 13:10:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 08-Jul-2021 13:05:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.391	4.379	0.012	38	288188	250.0	
33 Methyl tert-butyl ether	73		4.793				ND	
$ 51 Dibromofluoromethane (Surr)	113	7.001	6.995	0.006	94	225011	44.9	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.457	-0.006	93	62834	51.3	
60 Benzene	78	7.500	7.494	0.006	41	5733	0.2514	M
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	958422	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	971881	52.9	
82 Toluene	92		9.970				ND	7
S 92 Xylenes, Total	106				0		0.7561	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	738728	50.0	
97 Ethylbenzene	91	11.448	11.448	0.000	98	17481	0.6038	
98 m-Xylene & p-Xylene	106	11.558	11.564	-0.006	97	3487	0.2977	
99 o-Xylene	106	11.892	11.892	0.000	96	5298	0.4584	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	357069	48.8	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	406030	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

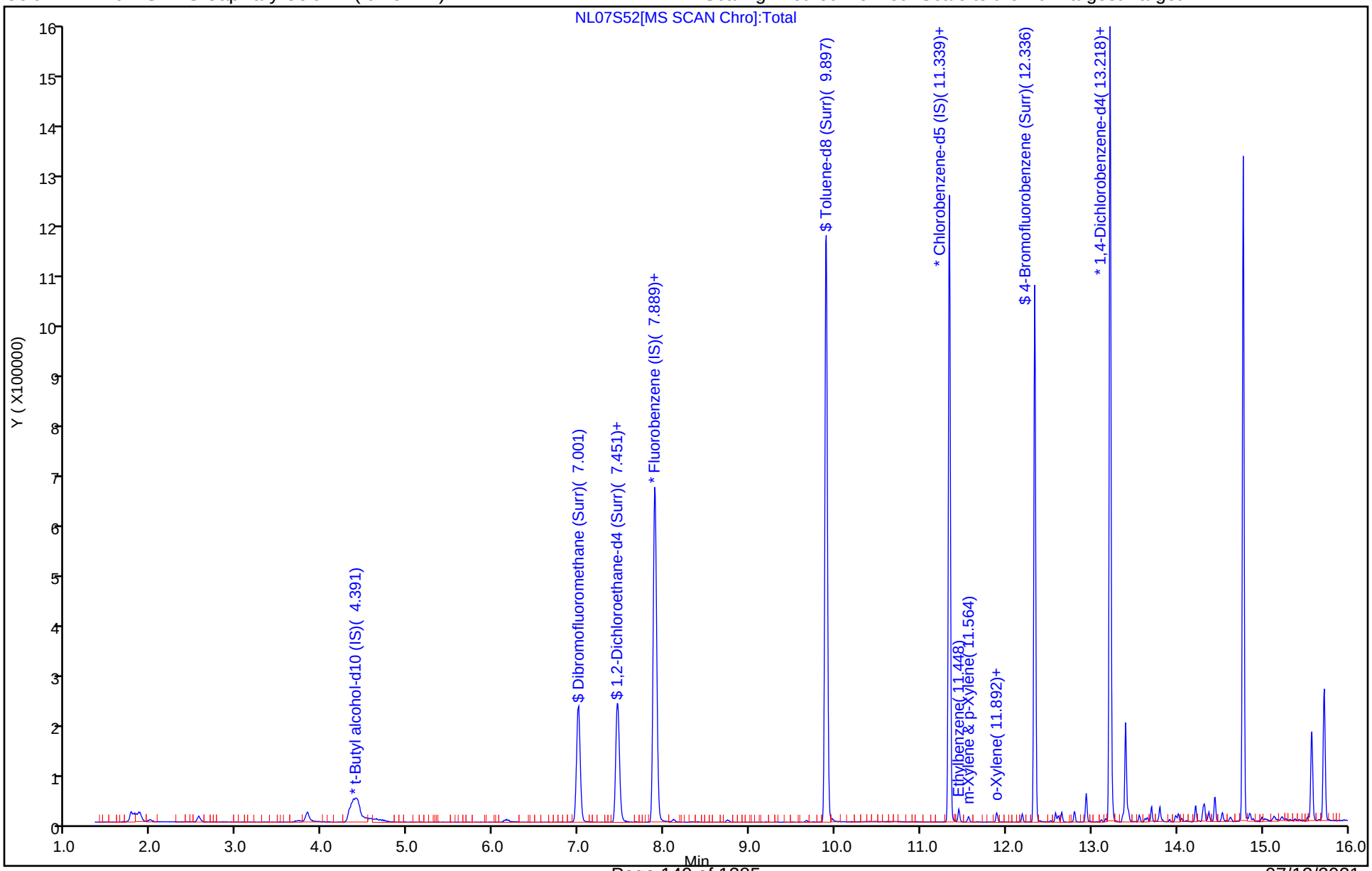
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Jul-2021 13:11:35 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S52.D				
Injection Date:	08-Jul-2021 05:10:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-17	Lab Sample ID:	410-45105-17	Worklist Smp#:	24
Client ID:	MW-13S-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	23
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

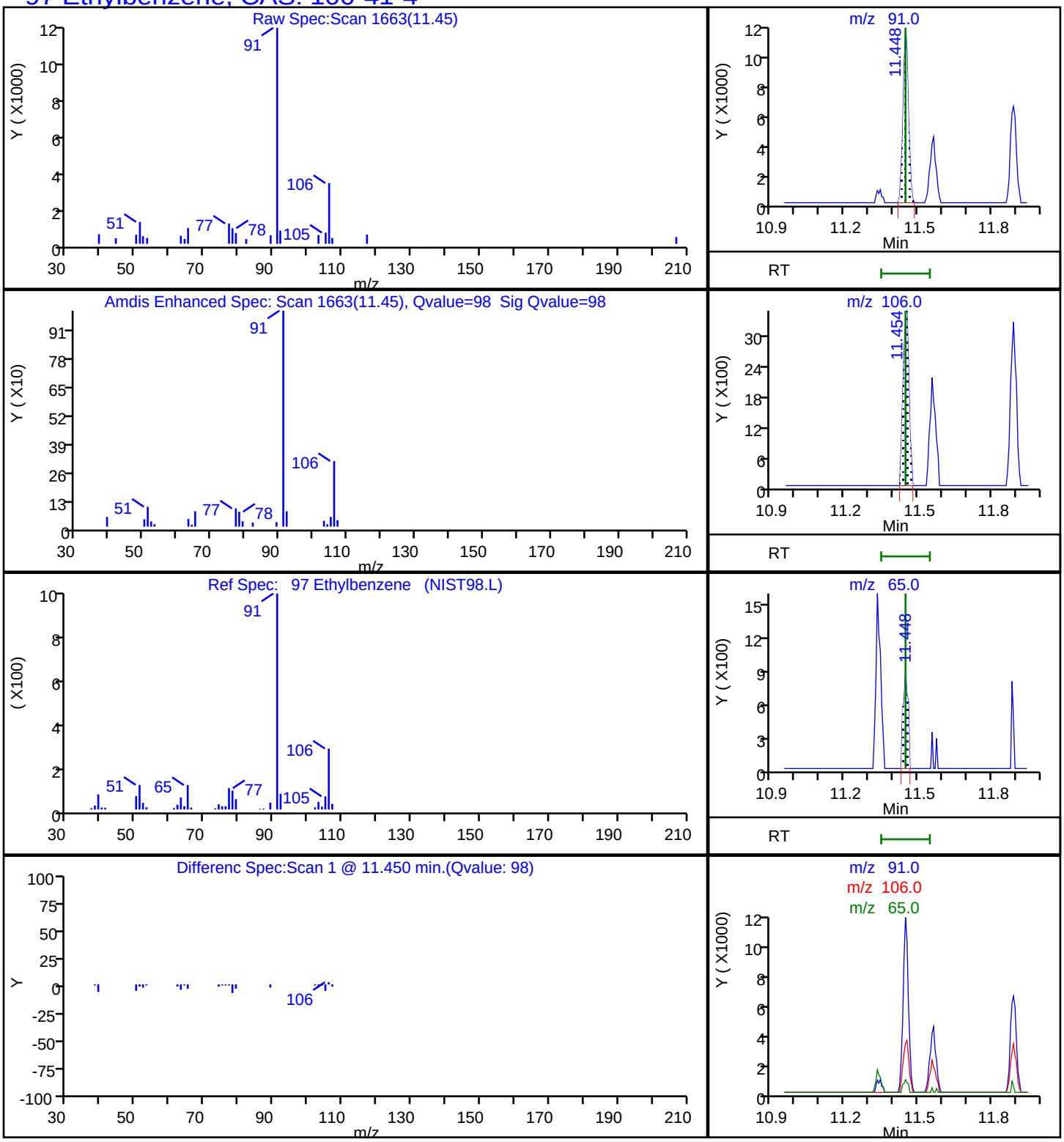


Report Date: 08-Jul-2021 13:11:36 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S52.D				
Injection Date:	08-Jul-2021 05:10:30	Instrument ID:	7159		
Lims ID:	410-45105-C-17	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	etp33087	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

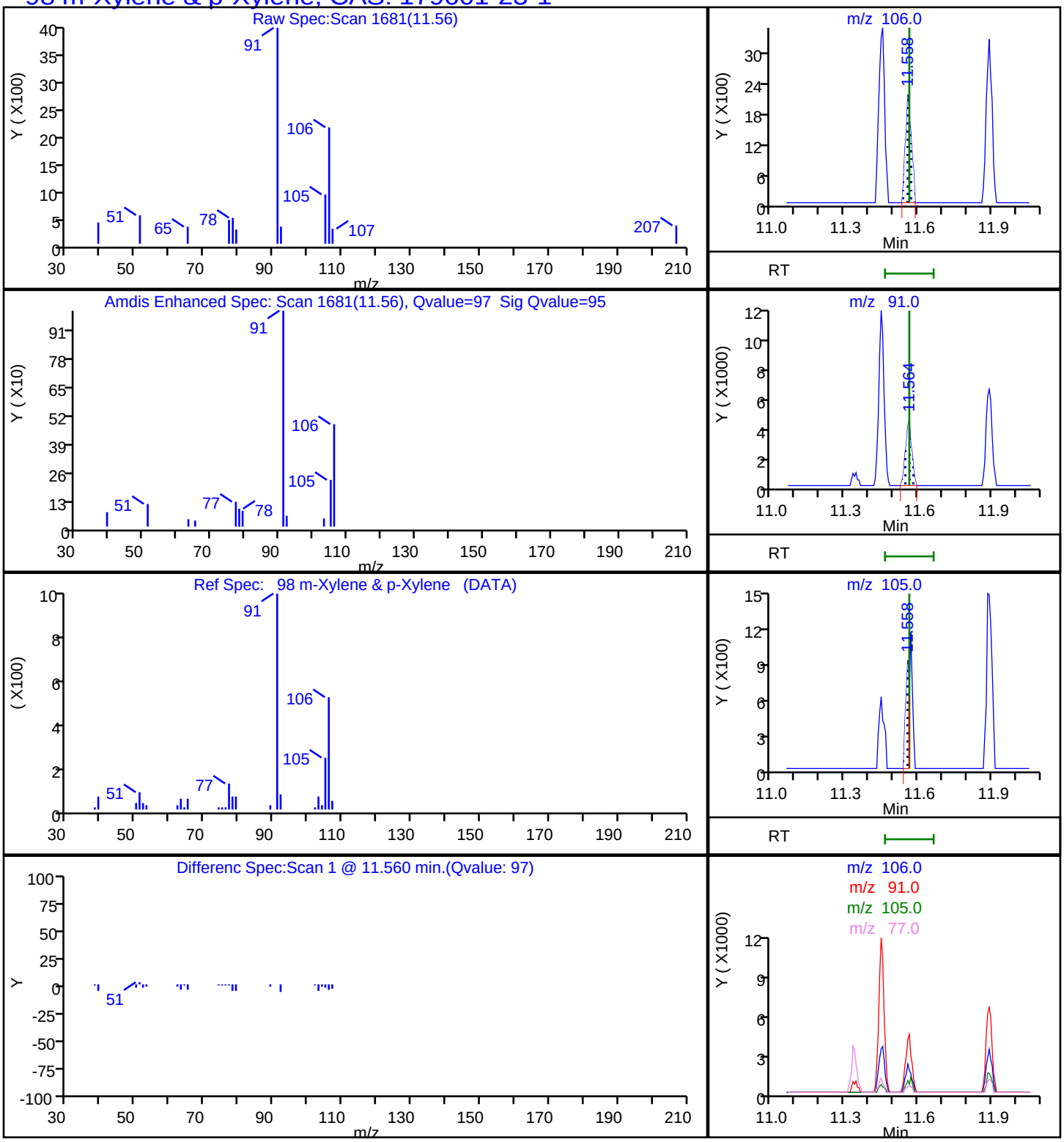
97 Ethylbenzene, CAS: 100-41-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S52.D				
Injection Date:	08-Jul-2021 05:10:30	Instrument ID:	7159		
Lims ID:	410-45105-C-17	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	etp33087	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 08-Jul-2021 13:11:36 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S52.D

Injection Date: 08-Jul-2021 05:10:30 Instrument ID: 7159

Lims ID: 410-45105-C-17 Lab Sample ID: 410-45105-17

Client ID: MW-13S-20210624

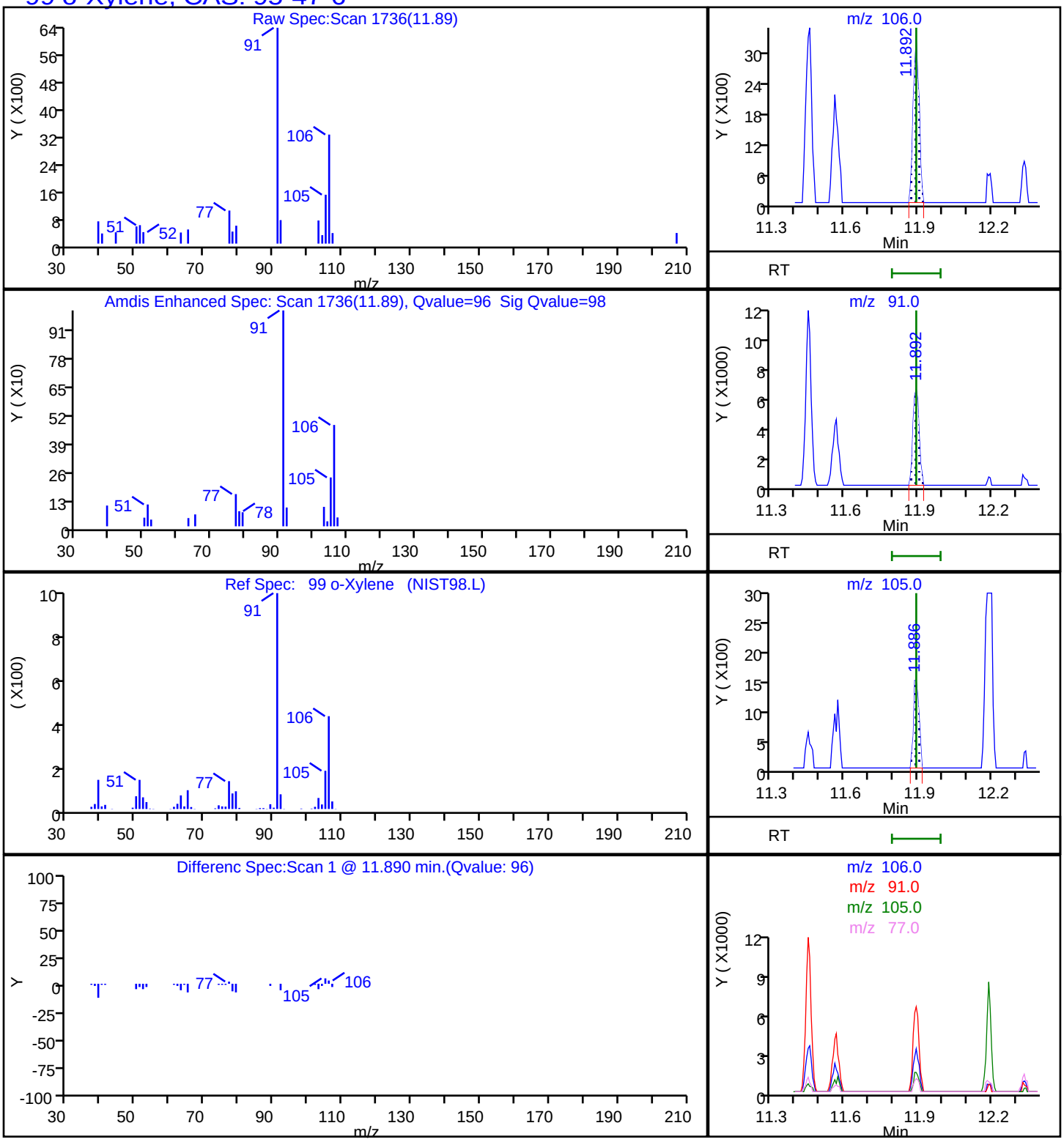
Operator ID: etp33087 ALS Bottle#: 23 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 5.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

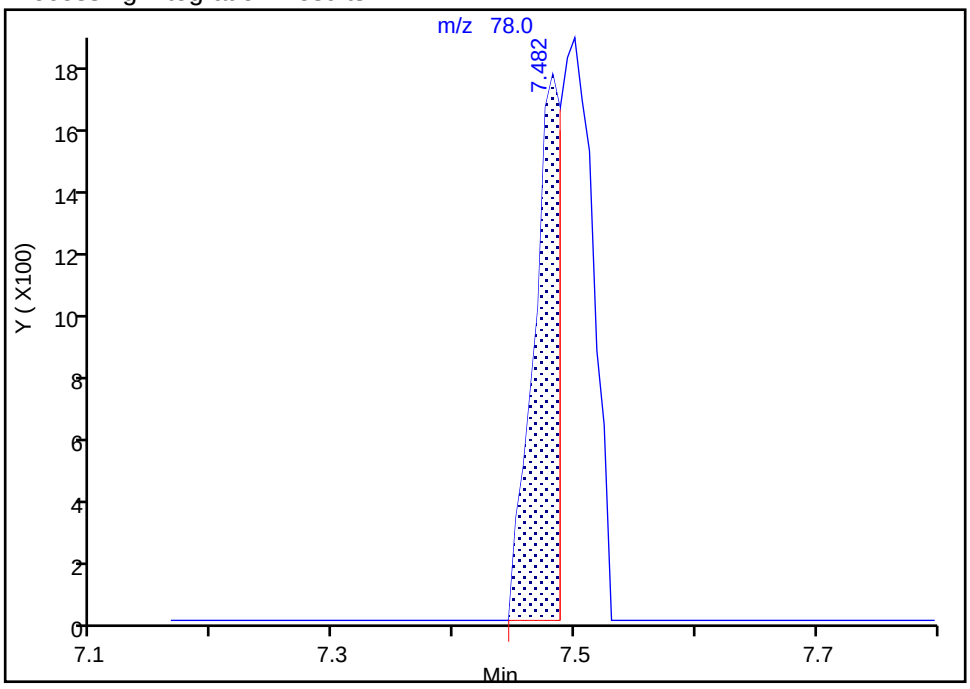
Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S52.D				
Injection Date:	08-Jul-2021 05:10:30	Instrument ID:	7159		
Lims ID:	410-45105-C-17	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	etp33087	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 Benzene, CAS: 71-43-2

Signal: 1

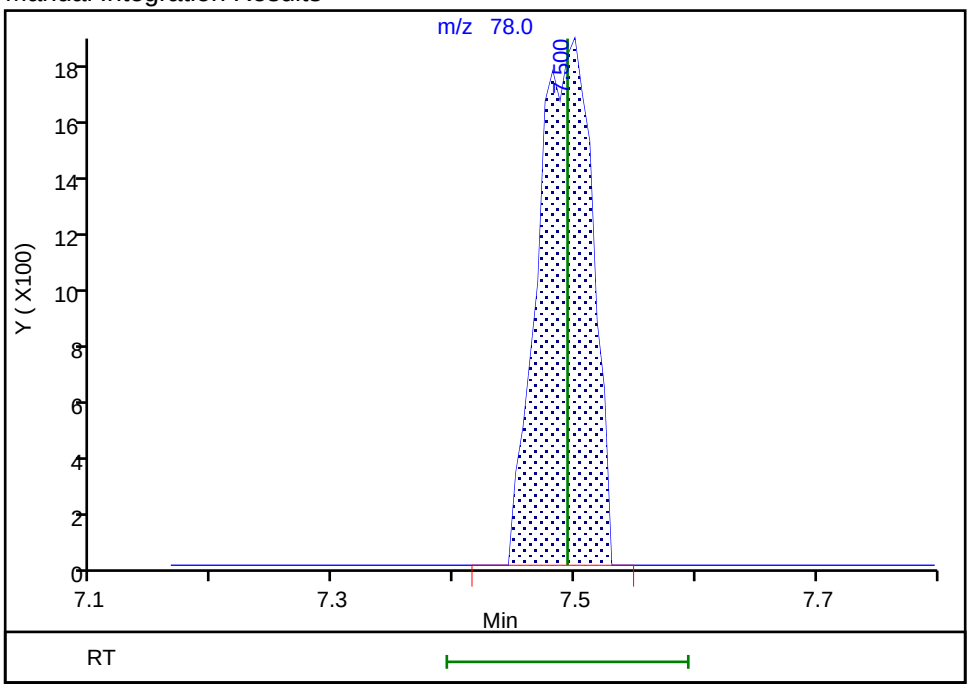
Processing Integration Results

RT: 7.48
Area: 2736
Amount: 0.119976
Amount Units: ug/l



Manual Integration Results

RT: 7.50
Area: 5733
Amount: 0.251397
Amount Units: ug/l



Reviewer: papel, 08-Jul-2021 13:05:53

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-13D-20210624 Lab Sample ID: 410-45105-18

Matrix: Groundwater Lab File ID: NL07S45.D

Analysis Method: 8260C Date Collected: 06/24/2021 11:29

Sample wt/vol: 5(mL) Date Analyzed: 07/08/2021 02:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S45.D
Lims ID: 410-45105-C-18
Client ID: MW-13D-20210624
Sample Type: Client
Inject. Date: 08-Jul-2021 02:28:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-017
Misc. Info.: 410-45105-C-18
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2021 13:10:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 08-Jul-2021 13:01:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.367	4.379	-0.012	38	270545	250.0	
33 Methyl tert-butyl ether	73		4.793				ND	
$ 51 Dibromofluoromethane (Surr)	113	7.001	6.995	0.006	94	232190	45.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.457	-0.006	93	62391	49.7	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	982213	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	992755	53.2	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	750594	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	357974	48.1	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.000	94	405481	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

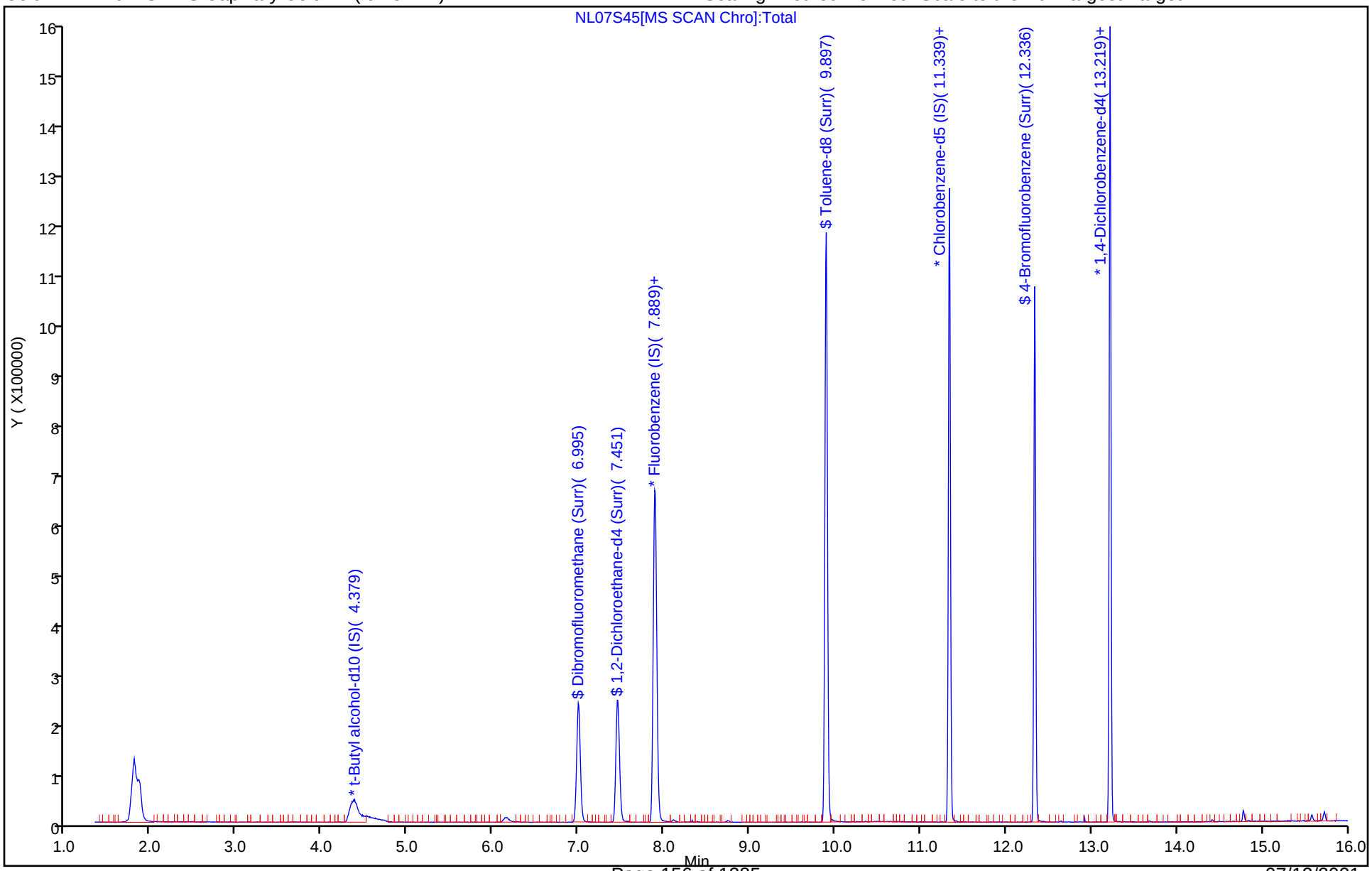
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Jul-2021 13:11:24 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S45.D				
Injection Date:	08-Jul-2021 02:28:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-18	Lab Sample ID:	410-45105-18	Worklist Smp#:	17
Client ID:	MW-13D-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: FB-20210624 Lab Sample ID: 410-45105-19

Matrix: Water Lab File ID: NL07S38.D

Analysis Method: 8260C Date Collected: 06/24/2021 09:15

Sample wt/vol: 5(mL) Date Analyzed: 07/07/2021 23:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S38.D
Lims ID: 410-45105-C-19
Client ID: FB-20210624
Sample Type: Client
Inject. Date: 07-Jul-2021 23:46:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-010
Misc. Info.: 410-45105-C-19
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2021 13:10:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 08-Jul-2021 12:44:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.361	4.379	-0.018	40	271594	250.0	
33 Methyl tert-butyl ether	73		4.793				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	93	232500	44.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.445	7.457	-0.012	93	64640	51.0	
60 Benzene	78		7.494				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	992286	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1013054	53.5	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	760940	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	364316	48.3	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	413688	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

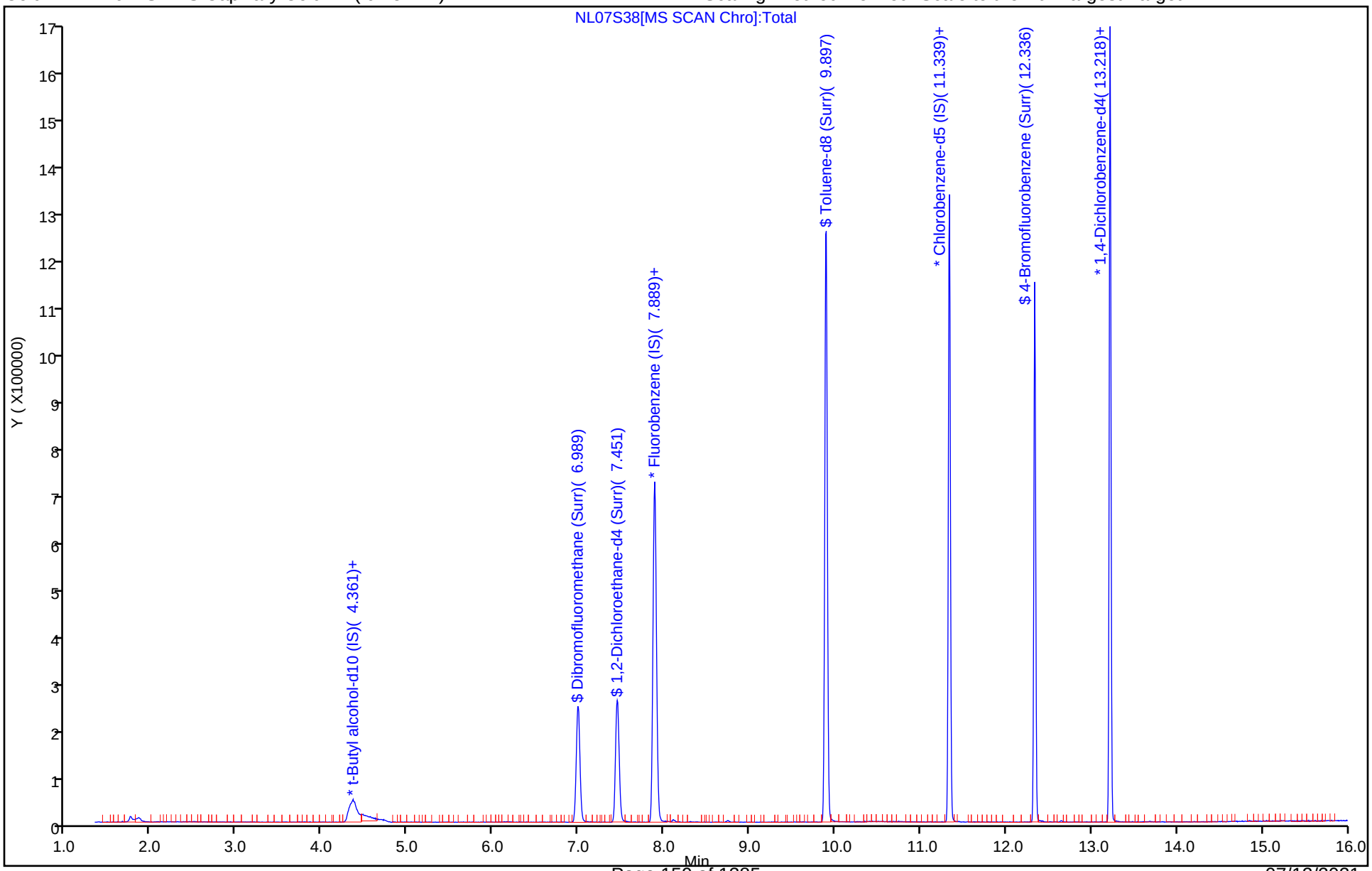
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Jul-2021 13:11:03 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S38.D				
Injection Date:	07-Jul-2021 23:46:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-19	Lab Sample ID:	410-45105-19	Worklist Smp#:	10
Client ID:	FB-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: DUP-20210624 Lab Sample ID: 410-45105-20

Matrix: Groundwater Lab File ID: NL07S46.D

Analysis Method: 8260C Date Collected: 06/24/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/08/2021 02:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.55	J	1.0	0.30
100-41-4	Ethylbenzene	2.7		1.0	0.40
108-88-3	Toluene	0.90	J	1.0	0.20
1330-20-7	Xylenes, Total	4.1		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D
Lims ID: 410-45105-C-20
Client ID: DUP-20210624
Sample Type: Client
Inject. Date: 08-Jul-2021 02:52:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-018
Misc. Info.: 410-45105-C-20
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2021 13:10:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 08-Jul-2021 13:02:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.379	-0.006	38	257471	250.0	M
33 Methyl tert-butyl ether	73		4.793				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	227744	44.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.457	-0.006	93	63943	51.0	
60 Benzene	78	7.482	7.494	-0.012	88	12783	0.5480	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	980379	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	991204	53.5	
82 Toluene	92	9.970	9.970	0.000	99	13071	0.8968	
S 92 Xylenes, Total	106				0		4.04	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	744515	50.0	
97 Ethylbenzene	91	11.448	11.448	0.000	98	78926	2.71	
98 m-Xylene & p-Xylene	106	11.558	11.564	-0.006	98	24392	2.07	
99 o-Xylene	106	11.892	11.892	0.000	96	23044	1.98	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	360535	48.9	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	412227	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

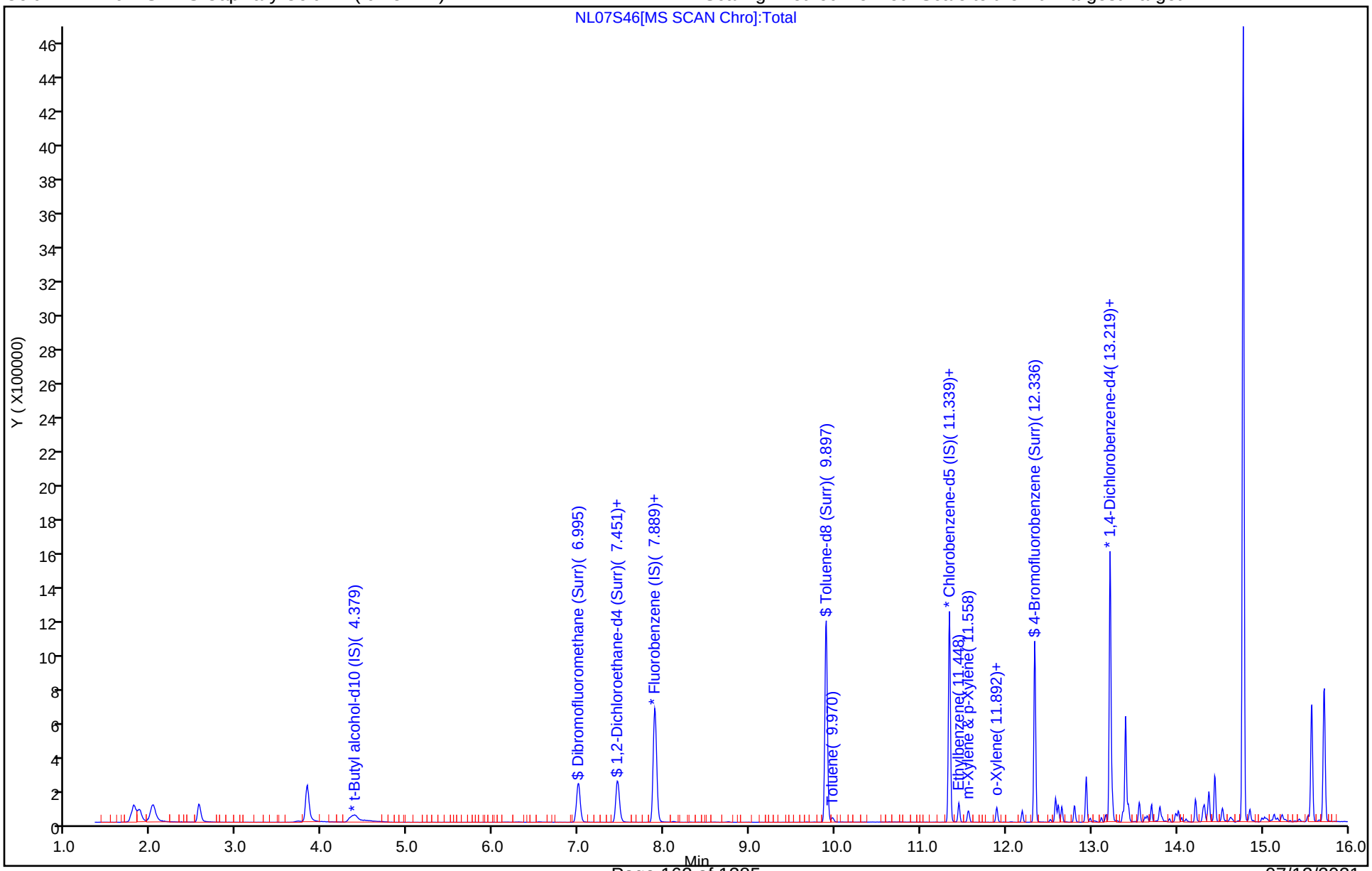
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Jul-2021 13:11:26 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D				
Injection Date:	08-Jul-2021 02:52:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	410-45105-C-20	Lab Sample ID:	410-45105-20	Worklist Smp#:	18
Client ID:	DUP-20210624				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

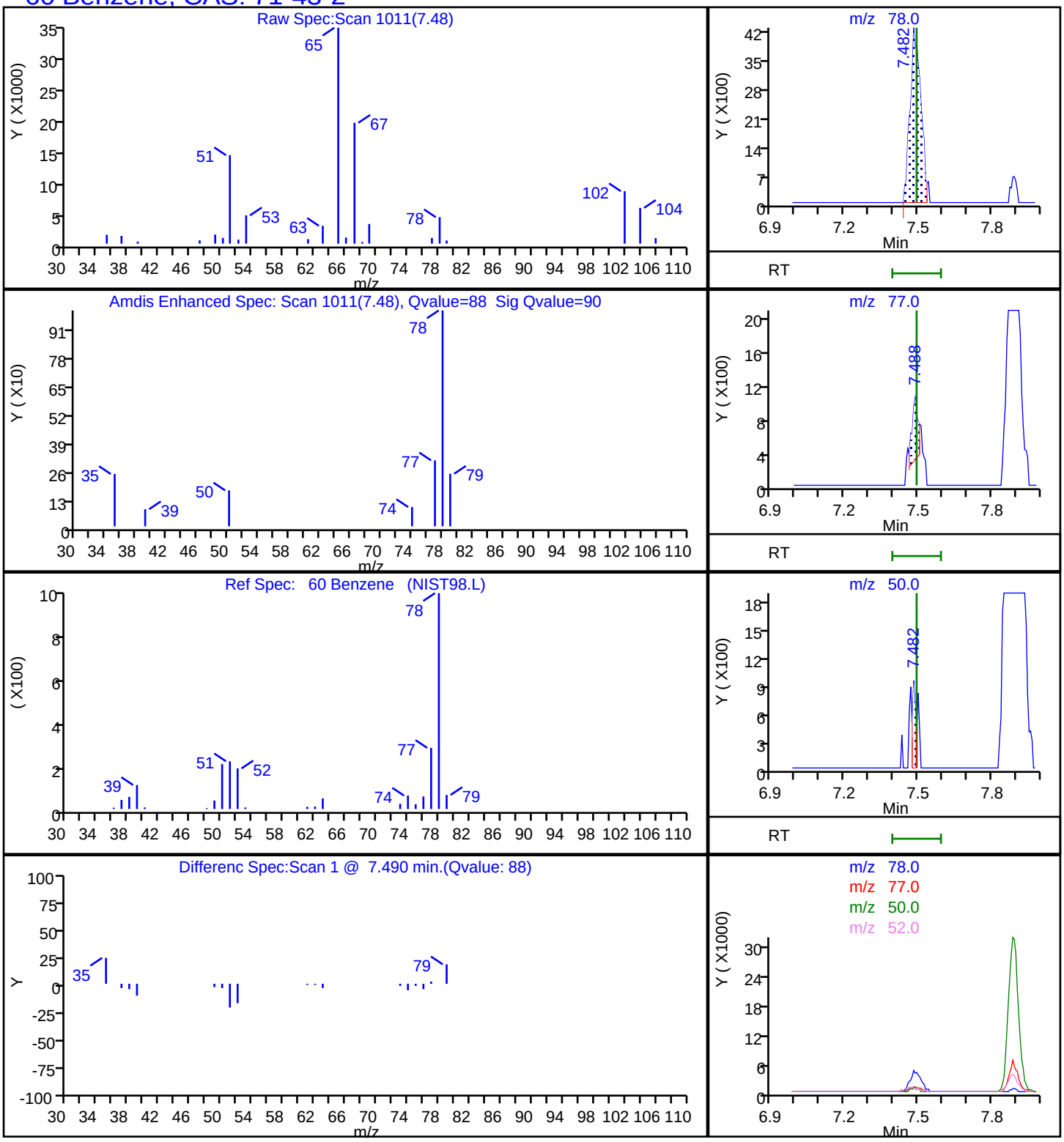
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D				
Injection Date:	08-Jul-2021 02:52:30	Instrument ID:	7159		
Lims ID:	410-45105-C-20	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	etp33087	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

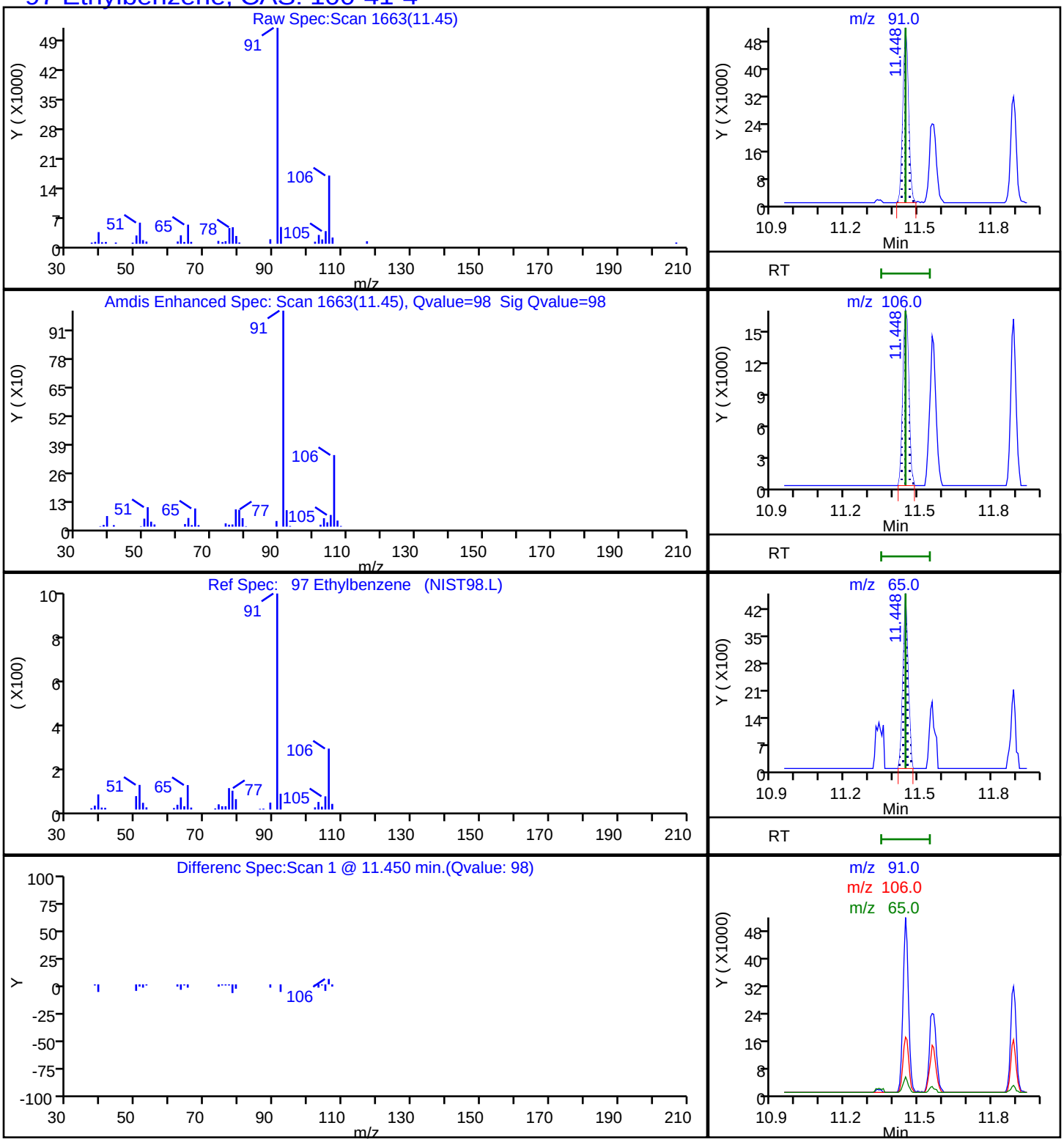
60 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D		
Injection Date:	08-Jul-2021 02:52:30	Instrument ID:	7159
Lims ID:	410-45105-C-20	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	etp33087	ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad

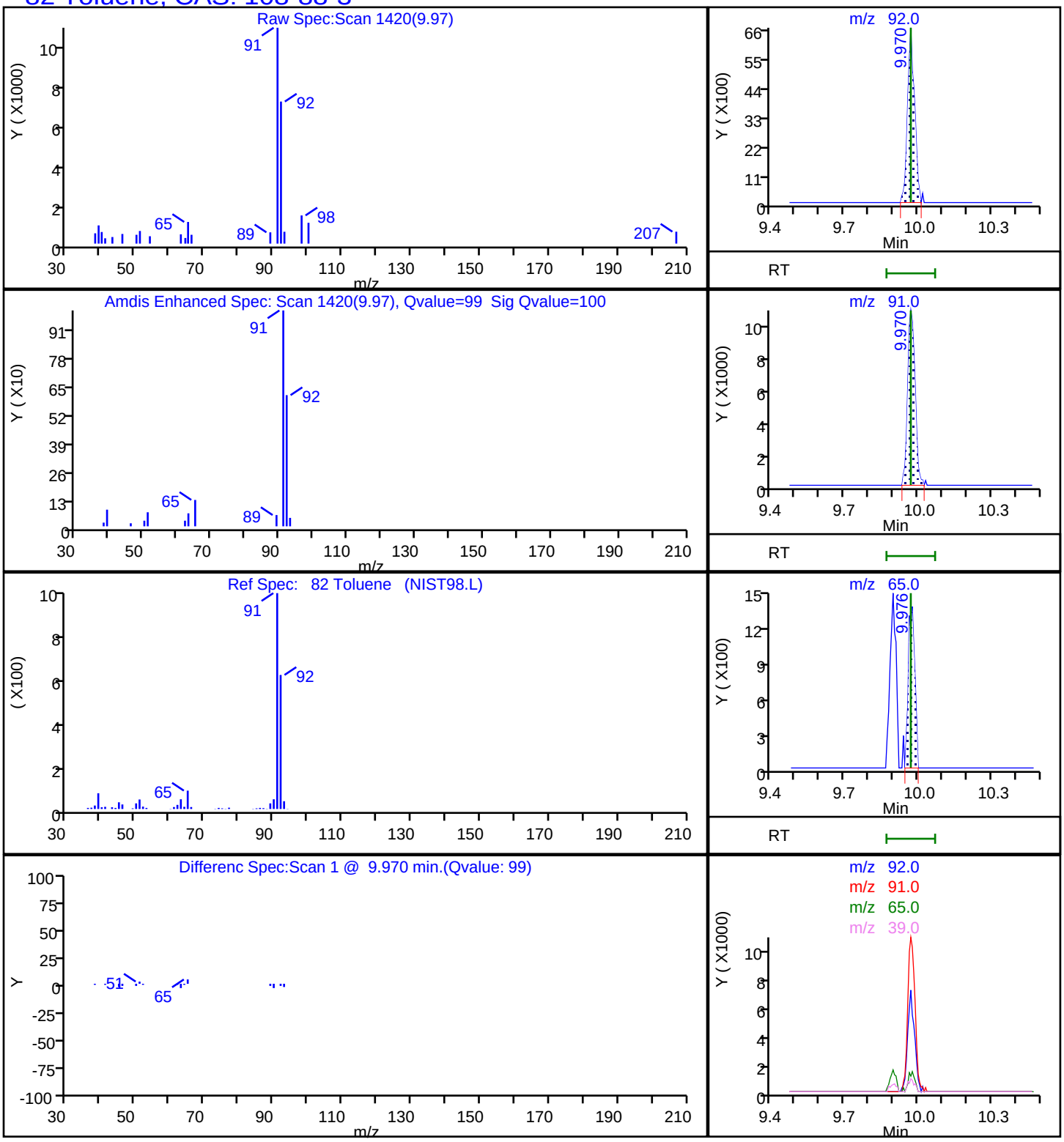
97 Ethylbenzene, CAS: 100-41-4



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D
Injection Date: 08-Jul-2021 02:52:30 Instrument ID: 7159
Lims ID: 410-45105-C-20 Lab Sample ID: 410-45105-20
Client ID: DUP-20210624
Operator ID: etp33087 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

82 Toluene, CAS: 108-88-3



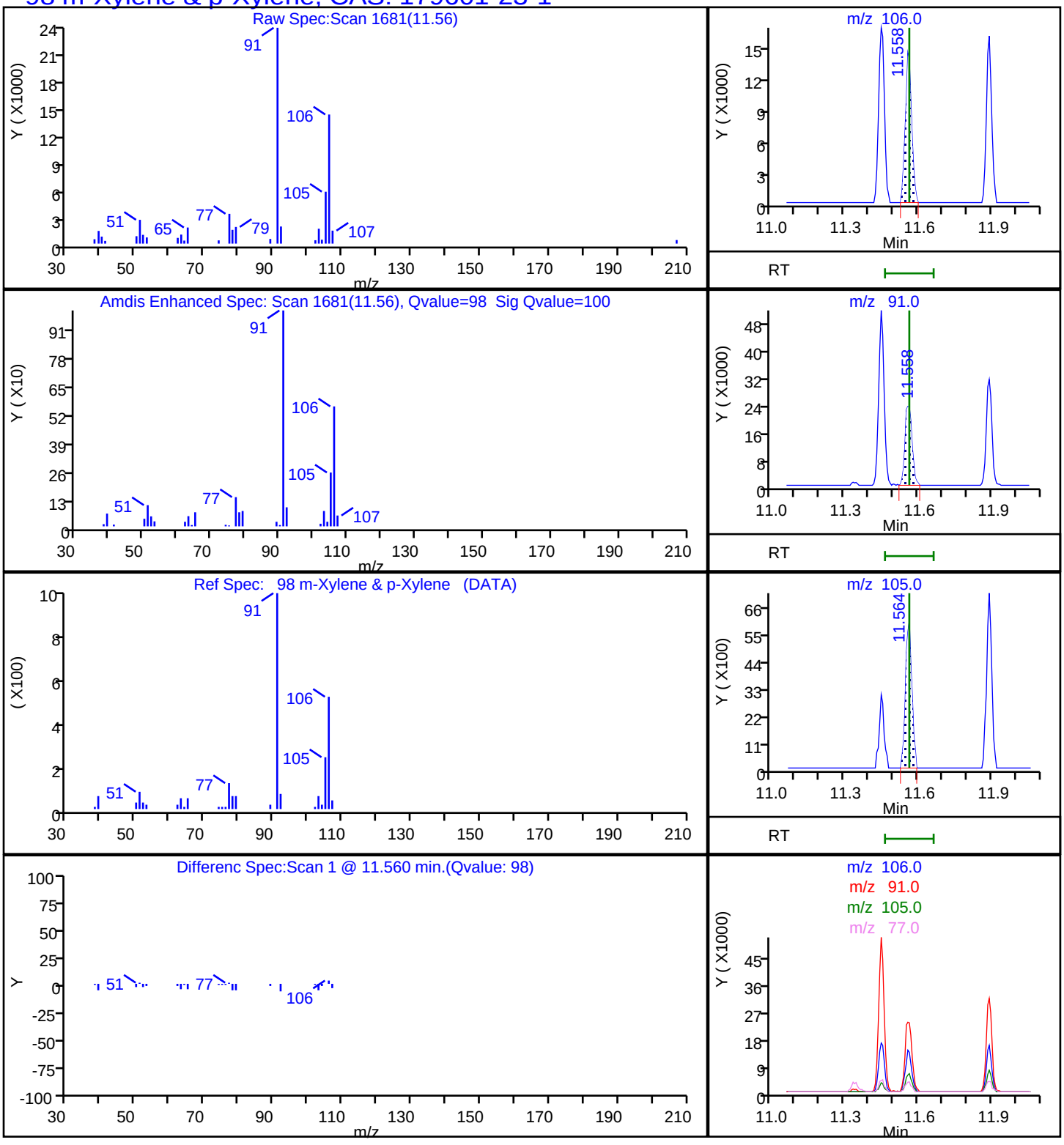
Report Date: 08-Jul-2021 13:11:26 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D

Injection Date:	08-Jul-2021 02:52:30	Instrument ID:	7159		
Lims ID:	410-45105-C-20	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	etp33087	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 08-Jul-2021 13:11:26 Chrom Revision: 2.3 07-Jul-2021 15:06:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D

Injection Date: 08-Jul-2021 02:52:30 Instrument ID: 7159

Lims ID: 410-45105-C-20 Lab Sample ID: 410-45105-20

Client ID: DUP-20210624

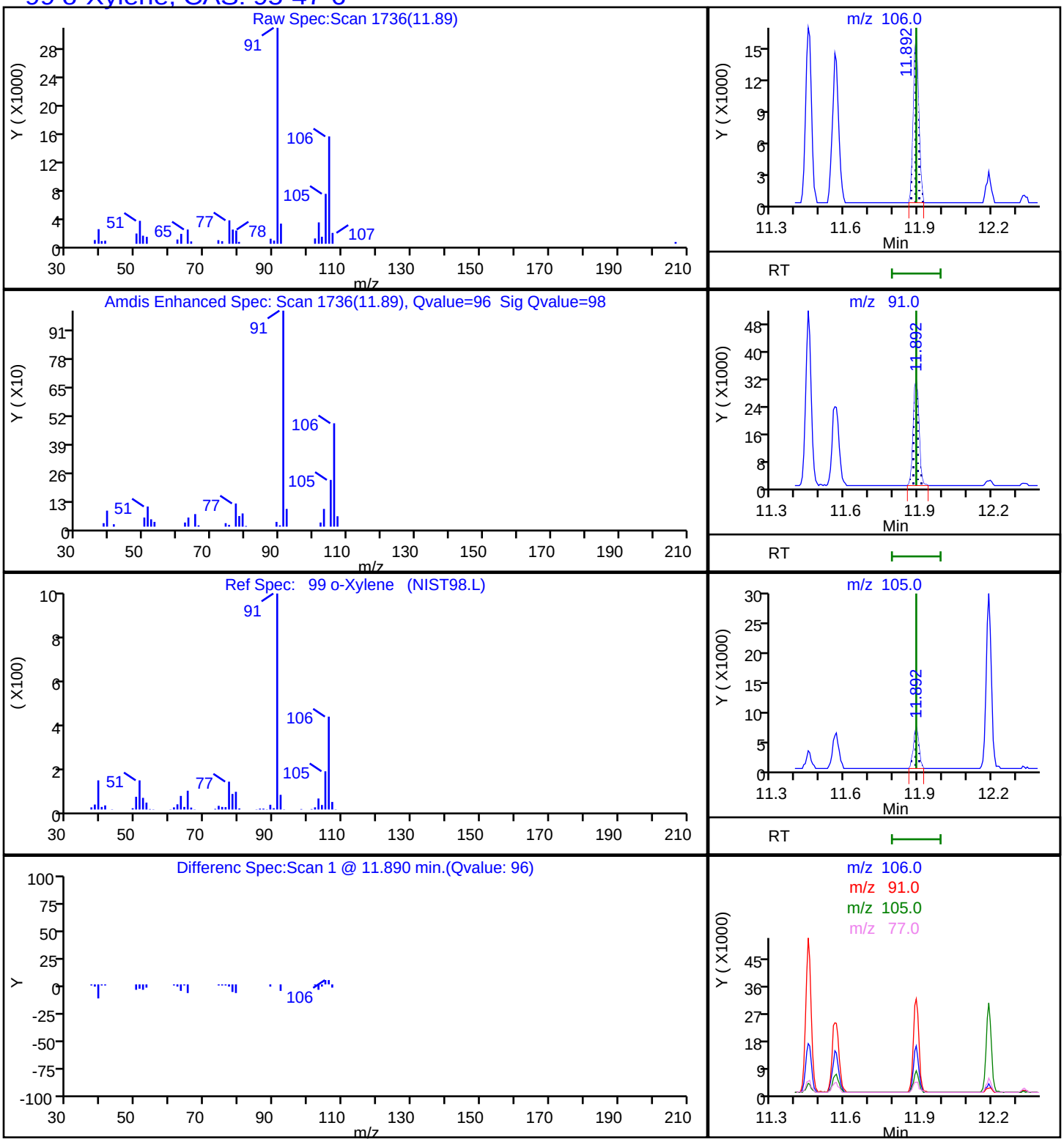
Operator ID: etp33087 ALS Bottle#: 17 Worklist Smp#: 18

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

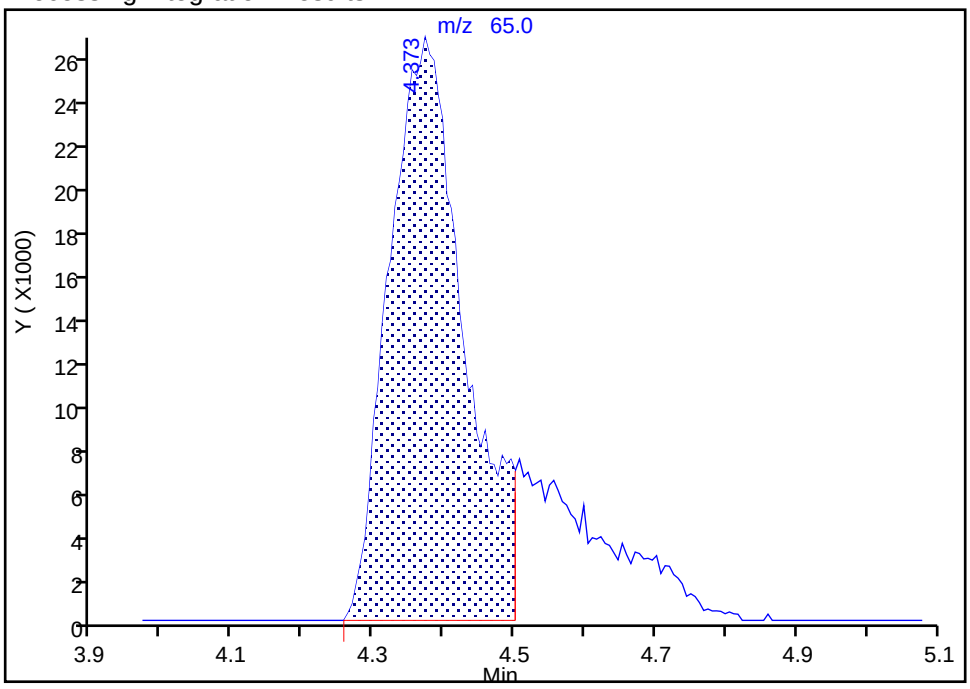
Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07S46.D				
Injection Date:	08-Jul-2021 02:52:30	Instrument ID:	7159		
Lims ID:	410-45105-C-20	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	etp33087	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

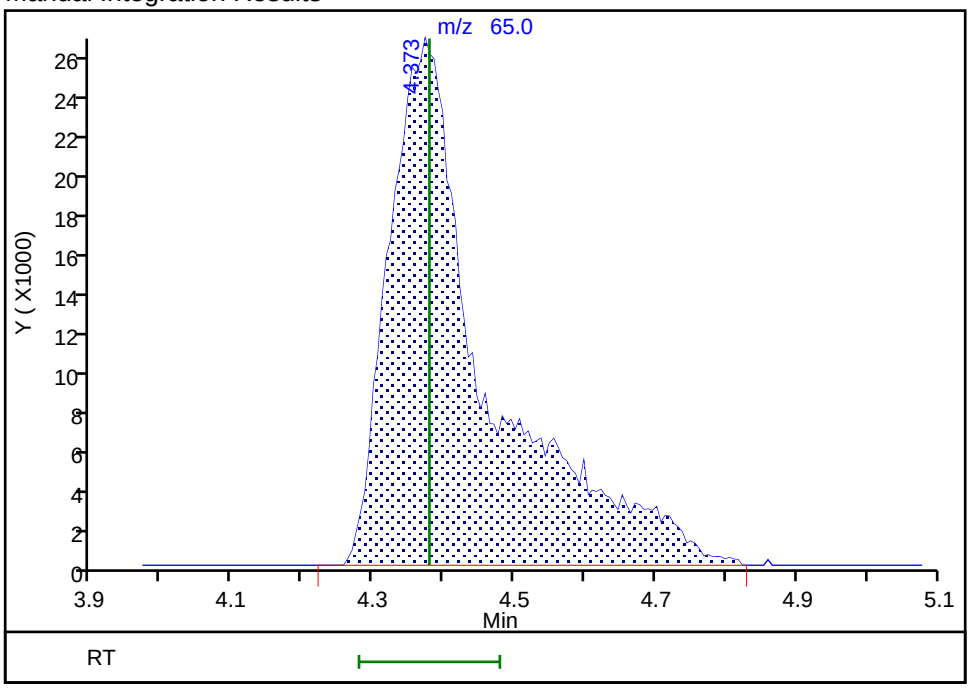
Processing Integration Results

RT: 4.37
Area: 196703
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.37
Area: 257471
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 08-Jul-2021 13:02:04

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Trip-Blank Lab Sample ID: 410-45105-21

Matrix: Water Lab File ID: NL02S03.D

Analysis Method: 8260C Date Collected: 06/22/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 11:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 144661 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S03.D
Lims ID: 410-45105-A-21
Client ID: Trip-Blank
Sample Type: Client
Inject. Date: 02-Jul-2021 11:49:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-010
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 04-Jul-2021 15:15:25 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: riehlc Date: 04-Jul-2021 14:57:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 29 t-Butyl alcohol-d10 (IS)	65	4.367	4.379	-0.012	38	260321	250.0	
33 Methyl tert-butyl ether	73		4.781				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	226695	44.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	63574	51.1	
60 Benzene	78		7.488				ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	973310	50.0	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	982229	53.6	
82 Toluene	92		9.970				ND	
S 92 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	84	736402	50.0	
97 Ethylbenzene	91		11.448				ND	
98 m-Xylene & p-Xylene	106		11.564				ND	
99 o-Xylene	106		11.892				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	346000	47.4	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.219	-0.001	95	398542	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

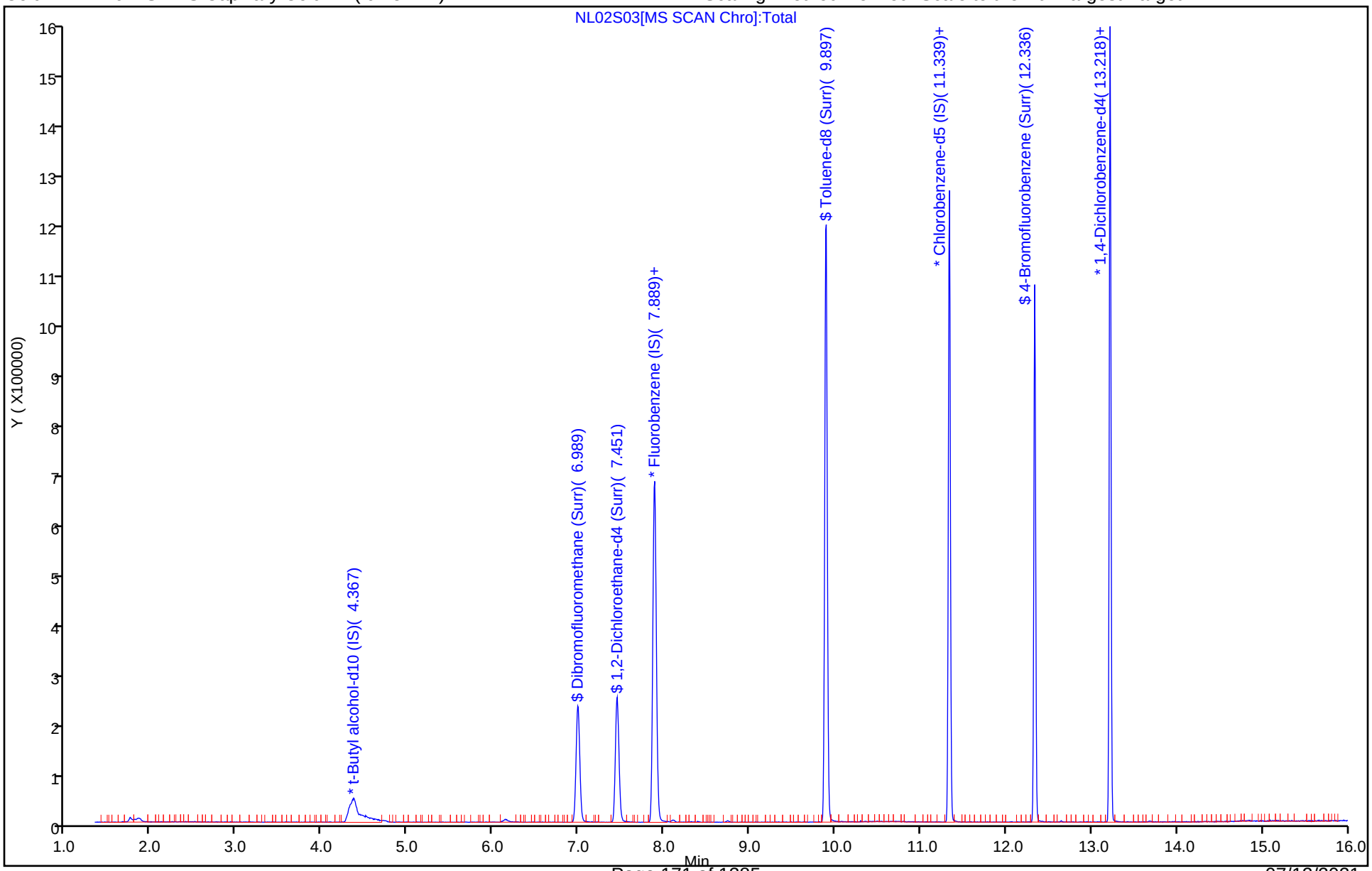
MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Jul-2021 15:16:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02S03.D				
Injection Date:	02-Jul-2021 11:49:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-A-21	Lab Sample ID:	410-45105-21	Worklist Smp#:	10
Client ID:	Trip-Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-100578/9	NM08X09.D
Level 2	IC 410-100578/8	NM08X08.D
Level 3	IC 410-100578/7	NM08X07.D
Level 4	IC 410-100578/6	NM08X06.D
Level 5	ICIS 410-100578/5	NM08X05.D
Level 6	IC 410-100578/4	NM08X04.D
Level 7	IC 410-100578/3	NM08X03.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2534 0.3676	0.3517 0.3603	0.3742	0.3754	0.3899	Ave		0.3532			0.1000	12.9		20.0			
Chloromethane	0.3115 0.3031	0.3393 0.2900	0.3222	0.3173	0.3264	Ave		0.3157			0.1000	5.1		20.0			
Vinyl chloride	0.2654 0.3176	0.3205 0.3021	0.3194	0.3235	0.3351	Ave		0.3119			0.1000	7.3		20.0			
1,3-Butadiene	0.2934 0.2661	0.3251 0.2573	0.2785	0.2953	0.2755	Ave		0.2845				7.9		20.0			
Bromomethane	0.2383 0.2453	0.2499 0.2371	0.2589	0.2568	0.2619	Ave		0.2497			0.1000	4.0		20.0			
Chloroethane	0.1922 0.2043	0.2142 0.1927	0.2095	0.2079	0.2142	Ave		0.2050			0.1000	4.5		20.0			
Dichlorofluoromethane	0.4811 0.4912	0.5272 0.4850	0.4904	0.4717	0.5110	Ave		0.4940			0.1000	3.8		20.0			
Trichlorofluoromethane	0.4486 0.5604	0.5531 0.5435	0.5550	0.5573	0.5893	Ave		0.5439			0.1000	8.2		20.0			
n-Pentane	0.4170 0.4535	0.4502 0.4564	0.4436	0.4845	0.4722	Ave		0.4539				4.7		20.0			
Ethanol	0.0448 0.0587	0.0472 0.0629	0.0582	0.0542	0.0598	Ave		0.0551				12.3		20.0			
Freon 123a	0.3002 0.3160	0.3260 0.3109	0.3200	0.3327	0.3296	Ave		0.3193				3.6		20.0			
Acrolein	1.9301 1.8658	1.8857 1.9396	1.8533	1.7199	2.2255	Ave		1.9171				8.0		20.0			
1,1-Dichloroethene	0.2358 0.2534	0.2572 0.2494	0.2564	0.2712	0.2630	Ave		0.2552			0.1000	4.3		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.2301 0.3037	0.2988 0.2946	0.3027	0.3220	0.3092	Ave		0.2945			0.1000	10.1		20.0			
Acetone	0.6289 0.7730	0.7420 0.8071	0.7858	0.7220	0.9002	Ave		0.7656			0.1000	10.9		20.0			
2-Propanol	0.4783 0.4801	0.4584 0.5088	0.4678	0.5020	0.5075	Ave		0.4861				4.1		20.0			
Methyl iodide	0.4899 0.5236	0.5321 0.5008	0.5286	0.5587	0.5399	Ave		0.5248				4.4		20.0			
Carbon disulfide	0.6955 0.7730	0.7796 0.7531	0.7593	0.8038	0.7925	Ave		0.7653			0.1000	4.6		20.0			
Methyl acetate	0.3272 0.2672	0.2948 0.2640	0.2794	0.2792	0.2755	Ave		0.2839			0.1000	7.6		20.0			
Allyl chloride	0.4390 0.4305	0.4637 0.4189	0.4402	0.4603	0.4435	Ave		0.4423				3.6		20.0			
Methylene Chloride	0.2824 0.2837	0.2940 0.2716	0.2819	0.2963	0.2919	Ave		0.2860			0.1000	3.0		20.0			
t-Butyl alcohol	1.0417 1.1026	1.0531 1.1280	1.0877	1.1367	1.1303	Ave		1.0972				3.5		20.0			
Acrylonitrile	0.1115 0.1481	0.1360 0.1375	0.1561	0.1428	0.1523	Ave		0.1406				10.5		20.0			
Methyl tertiary butyl ether	0.8823 0.8964	0.9215 0.8537	0.9185	0.9398	0.9274	Ave		0.9057			0.1000	3.3		20.0			
trans-1,2-Dichloroethene	0.2842 0.2903	0.3067 0.2854	0.2995	0.3086	0.2979	Ave		0.2961			0.1000	3.3		20.0			
n-Hexane	0.3784 0.4386	0.4255 0.4316	0.4340	0.4628	0.4516	Ave		0.4318				6.2		20.0			
1,1-Dichloroethane	0.4832 0.4865	0.4984 0.4732	0.4957	0.5165	0.5043	Ave		0.4940			0.2000	2.9		20.0			
di-Isopropyl ether	0.8818 0.8530	0.8873 0.8298	0.8758	0.8971	0.8853	Ave		0.8729				2.7		20.0			
2-Chloro-1,3-butadiene	0.4445 0.4688	0.4816 0.4623	0.4692	0.4951	0.4833	Ave		0.4721				3.5		20.0			
Ethyl t-butyl ether	0.8620 0.8659	0.9099 0.8327	0.8996	0.9158	0.9015	Ave		0.8839				3.5		20.0			
2-Butanone	0.2011 0.1952	0.1913 0.1879	0.2095	0.1935	0.2060	Ave		0.1978			0.1000	4.0		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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	0.3100 0.3331	0.3454 0.3271	0.3375	0.3509	0.3456	Ave		0.3357			0.1000	4.2		20.0			
2,2-Dichloropropane	0.4647 0.4971	0.5086 0.4878	0.4980	0.5317	0.5114	Ave		0.4999				4.2		20.0			
Propionitrile	1.2160 1.1923	1.1991 1.2801	1.1814	1.2136	1.3265	Ave		1.2299				4.3		20.0			
Methacrylonitrile	0.1457 0.1590	0.1549 0.1571	0.1594	0.1655	0.1629	Ave		0.1578				4.0		20.0			
Bromochloromethane	0.1615 0.1837	0.1870 0.1795	0.1917	0.1921	0.1891	Ave		0.1835				5.8		20.0			
Tetrahydrofuran	1.1100 1.2534	1.2070 1.3517	1.2228	1.1244	1.4351	Ave		1.2435				9.4		20.0			
Chloroform	0.5239 0.5370	0.5486 0.5218	0.5349	0.5643	0.5463	Ave		0.5395			0.2000	2.8		20.0			
1,1,1-Trichloroethane	0.4740 0.5283	0.5336 0.5219	0.5232	0.5623	0.5468	Ave		0.5272			0.1000	5.2		20.0			
Cyclohexane	0.4178 0.5224	0.5296 0.5196	0.5141	0.5504	0.5322	Ave		0.5123			0.1000	8.4		20.0			
1,1-Dichloropropene	0.3898 0.4162	0.4172 0.4165	0.4102	0.4400	0.4272	Ave		0.4167				3.7		20.0			
Carbon tetrachloride	0.4025 0.4889	0.4674 0.4841	0.4632	0.5055	0.4962	Ave		0.4726			0.1000	7.3		20.0			
Isobutyl alcohol	0.3101 0.3463	0.3364 0.3677	0.3446	0.3438	0.3611	Ave		0.3443				5.4		20.0			
Benzene	1.1388 1.1764	1.2195 1.1526	1.1819	1.2528	1.2057	Ave		1.1897			0.5000	3.3		20.0			
1,2-Dichloroethane	0.4692 0.4133	0.4310 0.4128	0.4321	0.4363	0.4370	Ave		0.4331			0.1000	4.4		20.0			
t-Amyl methyl ether	0.8933 0.8850	0.9193 0.8443	0.9140	0.9357	0.9300	Ave		0.9031				3.5		20.0			
n-Heptane	0.3973 0.4244	0.4348 0.4251	0.4274	0.4520	0.4560	Ave		0.4310				4.6		20.0			
n-Butanol	0.2387 0.2727	0.2444 0.2976	0.2487	0.2712	0.2894	Ave		0.2661				8.6		20.0			
Trichloroethene	0.3060 0.3237	0.3336 0.3276	0.3225	0.3352	0.3332	Ave		0.3260			0.2000	3.1		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.5497 0.6126	0.6144 0.6113	0.6134	0.6566	0.6377	Ave		0.6137			0.1000	5.4		20.0			
1,2-Dichloropropane	0.2765 0.2869	0.2893 0.2865	0.2908	0.3009	0.2935	Ave		0.2892			0.1000	2.6		20.0			
t-Amyl ethyl ether	0.4517 0.5001	0.4874 0.4975	0.4926	0.5185	0.5096	Ave		0.4939				4.3		20.0			
Methyl methacrylate	0.2556 0.2739	0.2572 0.2720	0.2676	0.2765	0.2747	Ave		0.2682				3.2		20.0			
1,4-Dioxane	0.0403 0.0566	0.0536 0.0631	0.0493	0.0536	0.0572	Ave		0.0534			0.0050	13.4		20.0			
Dibromomethane	0.1994 0.2002	0.1997 0.2025	0.1965	0.2047	0.2057	Ave		0.2012				1.6		20.0			
Bromodichloromethane	0.3650 0.4139	0.3962 0.4220	0.3983	0.4163	0.4242	Ave		0.4051			0.2000	5.1		20.0			
2-Nitropropane	2.9333 2.9261	2.7146 3.2451	2.6420	2.5830	3.3247	Ave		2.9098				9.9		20.0			
2-Chloroethyl vinyl ether	0.2037 0.2139	0.2072 0.2174	0.2094	0.2193	0.2200	Ave		0.2130				3.0		20.0			
cis-1,3-Dichloropropene	0.4249 0.4916	0.4674 0.4997	0.4740	0.5047	0.5047	Ave		0.4810			0.2000	6.0		20.0			
4-Methyl-2-pentanone	0.3853 0.4215	0.3857 0.3999	0.4476	0.4144	0.4525	Ave		0.4153			0.1000	6.6		20.0			
Toluene	0.9095 0.9711	1.0082 0.9562	0.9734	1.0357	0.9978	Ave		0.9789			0.4000	4.1		20.0			
trans-1,3-Dichloropropene	0.4857 0.5633	0.5247 0.5655	0.5172	0.5705	0.5725	Ave		0.5428			0.1000	6.2		20.0			
Ethyl methacrylate	0.5002 0.5550	0.5453 0.5616	0.5422	0.5801	0.5771	Ave		0.5517				4.9		20.0			
1,1,2-Trichloroethane	0.3611 0.3453	0.3435 0.3447	0.3390	0.3634	0.3498	Ave		0.3496			0.1000	2.7		20.0			
Tetrachloroethene	0.4490 0.5062	0.5154 0.5039	0.4959	0.5364	0.5171	Ave		0.5034			0.2000	5.4		20.0			
1,3-Dichloropropane	0.5476 0.5576	0.5636 0.5529	0.5548	0.5883	0.5751	Ave		0.5629				2.5		20.0			
2-Hexanone	0.3488 0.3870	0.3525 0.3674	0.4049	0.3831	0.4180	Ave		0.3803			0.1000	6.8		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.3688 0.4411	0.3972 0.4444	0.4039	0.4375	0.4451	Ave		0.4197				7.1		20.0			
1,2-Dibromoethane	0.3810 0.3879	0.3862 0.3884	0.3694	0.3967	0.3962	Ave		0.3865			0.1000	2.4		20.0			
1-Chlorohexane	0.6114 0.5780	0.5878 0.5720	0.5729	0.6194	0.5959	Ave		0.5910				3.2		20.0			
Chlorobenzene	1.1101 1.1280	1.1607 1.1046	1.1435	1.2119	1.1715	Ave		1.1472			0.5000	3.3		20.0			
1,1,1,2-Tetrachloroethane	0.3942 0.4349	0.4150 0.4391	0.4150	0.4495	0.4426	Ave		0.4272				4.6		20.0			
Ethylbenzene	1.8579 1.9308	2.0171 1.8387	1.9651	2.1095	1.9975	Ave		1.9595			0.1000	4.8		20.0			
m&p-Xylene	0.7202 0.7866	0.8233 0.7678	0.7929	0.8481	0.8101	Ave		0.7927			0.1000	5.2		20.0			
o-Xylene	0.7169 0.7769	0.7974 0.7740	0.7769	0.8319	0.8015	Ave		0.7822			0.3000	4.5		20.0			
Styrene	1.1424 1.2898	1.2432 1.2753	1.2459	1.3579	1.3359	Ave		1.2701			0.3000	5.6		20.0			
Bromoform	0.2595 0.3482	0.2895 0.3564	0.2992	0.3382	0.3441	Ave		0.3193			0.1000	11.5		20.0			
Isopropylbenzene	1.9298 2.0793	2.1715 1.9466	2.0990	2.2788	2.1676	Ave		2.0961			0.1000	6.0		20.0			
Cyclohexanone	0.2106 0.2261	0.2175 0.2419	0.2040	0.2127	0.2376	Ave		0.2215				6.4		20.0			
1,1,2,2-Tetrachloroethane	0.8404 0.8902	0.8961 0.8578	0.8789	0.9220	0.9129	Ave		0.8855			0.3000	3.3		20.0			
Bromobenzene	0.8851 0.9163	0.9248 0.8939	0.8925	0.9585	0.9433	Ave		0.9163				3.0		20.0			
trans-1,4-Dichloro-2-butene	0.2854 0.3245	0.3007 0.3162	0.3133	0.3326	0.3274	Ave		0.3143				5.3		20.0			
1,2,3-Trichloropropane	0.2950 0.3177	0.3168 0.3066	0.3113	0.3295	0.3221	Ave		0.3141				3.6		20.0			
N-Propylbenzene	3.7695 3.9002	4.1668 3.5140	3.9865	4.2565	4.1194	Ave		3.9590				6.5		20.0			
2-Chlorotoluene	0.8346 0.8557	0.9085 0.8356	0.8574	0.9111	0.8824	Ave		0.8693				3.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	2.7000 2.9878	3.0277 2.7982	2.9750	3.1916	3.1149	Ave		2.9707				5.8		20.0			
4-Chlorotoluene	0.8328 0.8788	0.8930 0.8632	0.8864	0.9242	0.9076	Ave		0.8837				3.4		20.0			
tert-Butylbenzene	0.6304 0.6987	0.6590 0.7006	0.6395	0.7304	0.7136	Ave		0.6818				5.7		20.0			
Pentachloroethane	0.4901 0.5809	0.5393 0.5956	0.5496	0.5983	0.5909	Ave		0.5635				7.0		20.0			
1,2,4-Trimethylbenzene	2.7234 3.0514	3.1593 2.8578	3.0395	3.2701	3.2023	Ave		3.0434				6.4		20.0			
sec-Butylbenzene	3.2524 3.7388	3.7537 3.3912	3.7192	3.9847	3.9849	Ave		3.6893				7.5		20.0			
1,3-Dichlorobenzene	1.6005 1.7290	1.7941 1.6845	1.7025	1.8138	1.7956	Ave		1.7314			0.6000	4.4		20.0			
p-Isopropyltoluene	2.9950 3.3579	3.3549 3.1031	3.3130	3.5644	3.5460	Ave		3.3192				6.3		20.0			
1,4-Dichlorobenzene	1.7061 1.7526	1.8259 1.7152	1.7208	1.8406	1.8149	Ave		1.7680			0.5000	3.3		20.0			
1,2,3-Trimethylbenzene	2.9027 2.9865	3.0908 2.7963	3.0895	3.2272	3.1327	Ave		3.0322				4.8		20.0			
Benzyl chloride	1.6456 2.1788	1.8683 2.1064	1.9537	2.1489	2.1884	Ave		2.0129				10.0		20.0			
1,3-Diethylbenzene	1.7481 1.9982	2.0212 1.9210	2.0153	2.1269	2.0847	Ave		1.9879				6.3		20.0			
1,4-Diethylbenzene	1.8686 2.0933	2.1618 2.0062	2.0870	2.2345	2.1957	Ave		2.0925				6.0		20.0			
n-Butylbenzene	1.2958 1.5773	1.5821 1.5367	1.5251	1.6513	1.6558	Ave		1.5463				7.9		20.0			
1,2-Dichlorobenzene	1.5801 1.6566	1.6552 1.6176	1.6378	1.7167	1.7131	Ave		1.6539			0.4000	3.0		20.0			
1,2-Diethylbenzene	1.4947 1.6415	1.6369 1.6048	1.6386	1.7414	1.7026	Ave		1.6372				4.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1959 0.2436	0.2242 0.2373	0.2316	0.2488	0.2375	Ave		0.2313			0.0500	7.6		20.0			
1,3,5-Trichlorobenzene	1.0819 1.2342	1.2148 1.1918	1.1953	1.2688	1.2897	Ave		1.2109				5.6		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	0.9316 1.0950	1.0597 1.0480	1.0468	1.1170	1.1429	Ave		1.0630			0.2000	6.4		20.0			
Hexachlorobutadiene	0.4116 0.4599	0.4292 0.4573	0.4305	0.4654	0.4868	Ave		0.4486				5.8		20.0			
Naphthalene	3.2666 3.5211	3.4225 3.0904	3.4772	3.6617	3.6139	Ave		3.4362				5.8		20.0			
1,2,3-Trichlorobenzene	0.9546 1.0342	0.9971 0.9570	0.9775	1.0419	1.0443	Ave		1.0009				3.9		20.0			
2-Methylnaphthalene	1.7617 2.0831	1.8108 1.8201	1.9375	2.0833	2.1051	Ave		1.9431				7.6		20.0			
Dibromofluoromethane (Surr)	0.2614 0.2631	0.2589 0.2567	0.2631	0.2630	0.2648	Ave		0.2616				1.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0642 0.0651	0.0624 0.0643	0.0633	0.0641	0.0640	Ave		0.0639				1.4		20.0			
Toluene-d8 (Surr)	1.2471 1.2364	1.2441 1.2440	1.2388	1.2499	1.2440	Ave		1.2435				0.4		20.0			
4-Bromofluorobenzene (Surr)	0.4954 0.4950	0.4940 0.4997	0.4930	0.4991	0.4920	Ave		0.4954				0.6		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-100578/9	NM08X09.D
Level 2	IC 410-100578/8	NM08X08.D
Level 3	IC 410-100578/7	NM08X07.D
Level 4	IC 410-100578/6	NM08X06.D
Level 5	ICIS 410-100578/5	NM08X05.D
Level 6	IC 410-100578/4	NM08X04.D
Level 7	IC 410-100578/3	NM08X03.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	5647 864403	31655 2458886	84501	170860	451313	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	6942 712872	30540 1979245	72753	144446	377820	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	5916 746809	28847 2061170	72108	147234	387942	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	6539 625900	29260 1755997	62888	134414	318904	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	5311 576931	22490 1618197	58452	116897	303203	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	4283 480539	19276 1315089	47299	94614	247999	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	10723 1155186	47452 3309606	110731	214717	591581	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	9998 1318002	49784 3708566	125309	253659	682202	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	9294 1066569	40520 3114373	100161	220536	546680	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBAd 10	Ave	2688 157665	11411 440143	32443	60726	71713	62.5 2500	250 7500	500	1000	1250
Freon 123a	FB	Ave	6690 743029	29342 2121468	72250	151427	381554	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd 10	Ave	18535 2004655	72919 5431209	206644	385125	1067034	10.00 1000	40.0 3000	100.0	200	500
1,1-Dichloroethene	FB	Ave	5255	23149	57893	123463	304433	1.00	4.00	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			595875	1702206				100	300			
Freon 113	FB	Ave	5128 714323	26899 2010376	68357	146559	357930	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd 10	Ave	1208 166114	5739 452051	17525	32333	86331	2.00 200	8.00 600	20.0	40.0	100
2-Propanol	TBAd 10	Ave	9187 257904	35455 712343	52162	112402	121666	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	10918 1231399	47896 3417457	119346	254300	624950	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	15500 1817820	70173 5139133	171440	365886	917408	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	7292 628266	26538 1801816	63095	127076	318892	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	9785 1012500	41737 2858651	99388	209515	513382	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	6293 667294	26462 1853054	63648	134868	337888	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd 10	Ave	20008 592344	81451 1579421	121287	254538	270983	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	2484 348194	12243 938378	35255	64991	176336	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	19664 2108023	82942 5825751	207393	427782	1073561	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	6334 682619	27602 1947718	67620	140486	344892	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	8434 1031475	38302 2944987	97990	210641	522805	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	10770 1144079	44864 3228854	111916	235107	583773	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	19652 2006041	79863 5662657	197755	408351	1024831	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	9906 1102582	43344 3154532	105936	225346	559502	1.00 100	4.00 300	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethyl t-butyl ether	FB	Ave	19211 2036304	81898 5682466	203131	416848	1043538	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	8963 918154	34432 2564691	94627	176125	476978	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	6909 783414	31093 2232190	76209	159725	400083	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	10358 1169047	45783 3328933	112452	242023	592000	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd 10	Ave	23355 640539	92739 1792344	131735	271763	318022	20.0 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	32476 934591	139461 2680673	179960	376580	471380	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	3600 431965	16828 1225154	43296	87458	218860	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd 10	Ave	2132 269351	9335 757027	27269	50358	137623	2.00 200	8.00 600	20.0	40.0	100
Chloroform	FB	Ave	11676 1262916	49380 3560802	120771	256851	632443	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	10565 1242458	48032 3561186	118135	255944	632983	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	9311 1228521	47668 3545814	116073	250517	616047	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	8687 978693	37554 2842233	92622	200303	494523	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	8971 1149862	42071 3303302	104595	230092	574412	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	14892 465092	65053 1286965	96058	192492	216441	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	25382 2766612	109764 7865491	266873	570252	1395779	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10458 972047	38793 2816833	97575	198578	505927	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	19909	82747	206367	425901	1076546	1.00	4.00	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			2081290	5761422				100	300			
n-Heptane	FB	Ave	8854 998018	39137 2900896	96499	205751	527925	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Ave	22922 732492	94500 2083687	138654	303685	346938	100 2500	400 7500	500	1000	1250
Trichloroethene	FB	Ave	6821 761195	30030 2235167	72828	152577	385754	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	12252 1440711	55302 4171500	138509	298870	738231	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	6163 674759	26039 1955185	65671	136972	339764	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	10068 1176103	43870 3395053	111225	236022	589958	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	5696 644123	23154 1856168	60419	125844	317987	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	1934 76027	10366 221041	13731	30033	34305	50.0 1250	200 3750	250	500	625
Dibromomethane	FB	Ave	4444 470825	17978 1381795	44369	93176	238095	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	8134 973319	35663 2879688	89945	189512	491049	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	5634 628795	20995 1817438	58918	115679	318831	2.00 200	8.00 600	20.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	4540 502923	18653 1483411	47290	99837	254712	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9471 1156072	42066 3410082	107024	229733	584228	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	17176 1982387	69436 5457944	202114	377284	1047578	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd 5	Ave	16555 1874613	74226 5402372	182036	384390	954472	1.00 100	4.00 300	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,3-Dichloropropene	CBZd 5	Ave	8840 1087328	38625 3194614	96724	211741	547684	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd 5	Ave	9104 1071355	40145 3173055	101400	215288	552093	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd 5	Ave	6573 666542	25291 1947507	63393	134874	334611	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd 5	Ave	8173 977152	37942 2846880	92741	199070	494646	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd 5	Ave	9968 1076326	41490 3123798	103759	218342	550113	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd 5	Ave	12699 1494210	51901 4151152	151430	284380	799733	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd 5	Ave	6712 851414	29240 2510883	75526	162352	425771	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd 5	Ave	6935 748771	28431 2194314	69072	147233	378959	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd 5	Ave	11128 1115740	43270 3231452	107141	229882	570014	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd 5	Ave	20206 2177402	85448 6240250	213849	449774	1120658	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	7175 839547	30551 2480990	77601	166833	423399	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd 5	Ave	33816 3727211	148500 10387895	367479	782871	1910799	1.00 100	4.00 300	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
m&p-Xylene	CBZd 5	Ave	26217 3036995	121217 8675459	296555	629507	1549804	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd 5	Ave	13049 1499799	58706 4372536	145284	308755	766746	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd 5	Ave	20794 2489842	91525 7205052	232986	503944	1277889	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd 5	Ave	4723 672088	21311 2013701	55947	125507	329179	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd 5	Ave	35125 4013814	159868 10997267	392519	845715	2073550	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd 10	Ave	10112 303649	42045 846803	56861	119076	142418	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	9077 1022410	39005 2953240	97895	205542	517616	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	9559 1052383	40255 3077463	99411	213682	534807	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	30820 931856	130888 2721751	174481	370747	464022	10.0 250	40.0 750	50.0	100	125
1,2,3-Trichloropropane	DCBd 4	Ave	3186 364886	13789 1055551	34669	73464	182639	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	40712 4479706	181376 12097386	444013	948946	2335646	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	9014 982825	39547 2876716	95496	203109	500289	1.00 100	4.00 300	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trimethylbenzene	DCBd 4	Ave	29161 3431661	131791 9633382	331349	711536	1766093	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	8995 1009416	38873 2971828	98730	206034	514615	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	6809 802559	28686 2411898	71232	162827	404621	1.00 100	4.00 300	10.0	20.0	50.0
Pentachloroethane	DCBd 4	Ave	5293 667194	23473 2050549	61212	133387	335011	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	29414 3504737	137522 9838324	338537	729035	1815651	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	35128 4294294	163396 11674617	414245	888342	2259365	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	17286 1985902	78095 5799115	189620	404363	1018097	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	32347 3856809	146033 10682761	368997	794649	2010497	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	18427 2012992	79478 5904782	191660	410338	1029016	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	31351 3430170	134538 9626800	344106	719471	1776166	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	17773 2502564	81326 7251691	217600	479069	1240763	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	18880 2295056	87982 6613211	224463	474163	1181973	1.00 100	4.00 300	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Diethylbenzene	DCBd 4	Ave	20182 2404337	94101 6906630	232454	498165	1244913	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	13995 1811674	68865 5290175	169867	368134	938783	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	17066 1902691	72049 5568850	182421	382726	971308	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	16144 1885377	71251 5524871	182512	388233	965343	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2116 279740	9760 816897	25796	55461	134676	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	11685 1417567	52879 4103109	133130	282863	731216	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	10062 1257666	46127 3607753	116591	249018	647998	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	4445 528227	18682 1574231	47947	103747	275982	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	35281 4044264	148977 10639162	387293	816337	2049023	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	10310 1187861	43401 3294690	108874	232269	592083	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	19027 2392554	78821 6266130	215798	464449	1193571	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	291304 309357	291331 291985	297038	299278	306587	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	71569	70153	71437	72931	74117	50.0	50.0	50.0	50.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			76584	73082				50.0	50.0			
Toluene-d8 (Surr)	CBZd 5	Ave	1134993	1144892	1158321	1159654	1189999	50.0	50.0	50.0	50.0	50.0
			1193406	1171357				50.0	50.0			
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	450862	454557	460988	463090	470631	50.0	50.0	50.0	50.0	50.0
			477740	470499				50.0	50.0			

Curve Type Legend
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-100578/9	NM08X09.D
Level 2	IC 410-100578/8	NM08X08.D
Level 3	IC 410-100578/7	NM08X07.D
Level 4	IC 410-100578/6	NM08X06.D
Level 5	ICIS 410-100578/5	NM08X05.D
Level 6	IC 410-100578/4	NM08X04.D
Level 7	IC 410-100578/3	NM08X03.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-28.3 2.0	-0.4	6.0	6.3	10.4	4.1	50 30	30	30	30	30	30
Chloromethane	-1.3 -8.1	7.5	2.1	0.5	3.4	-4.0	50 30	30	30	30	30	30
Vinyl chloride	-14.9 -3.2	2.7	2.4	3.7	7.4	1.8	50 30	30	30	30	30	30
1,3-Butadiene	3.1 -9.5	14.3	-2.1	3.8	-3.2	-6.4	50 30	30	30	30	30	30
Bromomethane	-4.6 -5.0	0.0	3.7	2.8	4.9	-1.8	50 30	30	30	30	30	30
Chloroethane	-6.3 -6.0	4.5	2.2	1.4	4.5	-0.3	50 30	30	30	30	30	30
Dichlorofluoromethane	-2.6 -1.8	6.7	-0.7	-4.5	3.5	-0.6	50 30	30	30	30	30	30
Trichlorofluoromethane	-17.5 -0.1	1.7	2.0	2.5	8.4	3.0	50 30	30	30	30	30	30
n-Pentane	-8.1 0.5	-0.8	-2.3	6.7	4.0	-0.1	50 30	30	30	30	30	30
Ethanol	-18.7 14.1	-14.3	5.6	-1.6	8.5	6.5	50 30	30	30	30	30	30
Freon 123a	-6.0 -2.6	2.1	0.2	4.2	3.2	-1.1	50 30	30	30	30	30	30
Acrolein	0.7 1.2	-1.6	-3.3	-10.3	16.1	-2.7	50 30	30	30	30	30	30
1,1-Dichloroethene	-7.6 -2.3	0.8	0.5	6.3	3.0	-0.7	50 30	30	30	30	30	30
Freon 113	-21.9 0.1	1.5	2.8	9.3	5.0	3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetone	-17.8 5.4	-3.1	2.6	-5.7	17.6	1.0	50 30	30	30	30	30	30
2-Propanol	-1.6 4.7	-5.7	-3.8	3.3	4.4	-1.2	50 30	30	30	30	30	30
Methyl iodide	-6.7 -4.6	1.4	0.7	6.5	2.9	-0.2	50 30	30	30	30	30	30
Carbon disulfide	-9.1 -1.6	1.9	-0.8	5.0	3.6	1.0	50 30	30	30	30	30	30
Methyl acetate	15.2 -7.0	3.9	-1.6	-1.7	-3.0	-5.9	50 30	30	30	30	30	30
Allyl chloride	-0.7 -5.3	4.8	-0.5	4.1	0.3	-2.7	50 30	30	30	30	30	30
Methylene Chloride	-1.3 -5.0	2.8	-1.4	3.6	2.1	-0.8	50 30	30	30	30	30	30
t-Butyl alcohol	-5.1 2.8	-4.0	-0.9	3.6	3.0	0.5	50 30	30	30	30	30	30
Acrylonitrile	-20.7 -2.2	-3.3	11.0	1.5	8.3	5.3	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-2.6 -5.7	1.7	1.4	3.8	2.4	-1.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-4.0 -3.6	3.6	1.1	4.2	0.6	-2.0	50 30	30	30	30	30	30
n-Hexane	-12.4 0.0	-1.4	0.5	7.2	4.6	1.6	50 30	30	30	30	30	30
1,1-Dichloroethane	-2.2 -4.2	0.9	0.3	4.6	2.1	-1.5	50 30	30	30	30	30	30
di-Isopropyl ether	1.0 -4.9	1.7	0.3	2.8	1.4	-2.3	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-5.9 -2.1	2.0	-0.6	4.9	2.4	-0.7	50 30	30	30	30	30	30
Ethyl t-butyl ether	-2.5 -5.8	2.9	1.8	3.6	2.0	-2.0	50 30	30	30	30	30	30
2-Butanone	1.7 -5.0	-3.3	5.9	-2.2	4.2	-1.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-7.6 -2.5	2.9	0.5	4.5	3.0	-0.8	50 30	30	30	30	30	30
2,2-Dichloropropane	-7.0 -2.4	1.7	-0.4	6.4	2.3	-0.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Propionitrile	-1.1 4.1	-2.5	-3.9	-1.3	7.9	-3.1	50 30	30	30	30	30	30
Methacrylonitrile	-7.7 -0.4	-1.8	1.0	4.9	3.2	0.7	50 30	30	30	30	30	30
Bromochloromethane	-12.0 -2.2	1.9	4.5	4.7	3.0	0.1	50 30	30	30	30	30	30
Tetrahydrofuran	-10.7 8.7	-2.9	-1.7	-9.6	15.4	0.8	50 30	30	30	30	30	30
Chloroform	-2.9 -3.3	1.7	-0.9	4.6	1.3	-0.5	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-10.1 -1.0	1.2	-0.8	6.7	3.7	0.2	50 30	30	30	30	30	30
Cyclohexane	-18.4 1.4	3.4	0.3	7.4	3.9	2.0	50 30	30	30	30	30	30
1,1-Dichloropropene	-6.5 -0.1	0.1	-1.6	5.6	2.5	-0.1	50 30	30	30	30	30	30
Carbon tetrachloride	-14.8 2.4	-1.1	-2.0	7.0	5.0	3.5	50 30	30	30	30	30	30
Isobutyl alcohol	-9.9 6.8	-2.3	0.1	-0.1	4.9	0.6	50 30	30	30	30	30	30
Benzene	-4.3 -3.1	2.5	-0.7	5.3	1.3	-1.1	50 30	30	30	30	30	30
1,2-Dichloroethane	8.3 -4.7	-0.5	-0.2	0.7	0.9	-4.6	50 30	30	30	30	30	30
t-Amyl methyl ether	-1.1 -6.5	1.8	1.2	3.6	3.0	-2.0	50 30	30	30	30	30	30
n-Heptane	-7.8 -1.4	0.9	-0.8	4.9	5.8	-1.5	50 30	30	30	30	30	30
n-Butanol	-10.3 11.8	-8.2	-6.5	1.9	8.8	2.5	50 30	30	30	30	30	30
Trichloroethene	-6.1 0.5	2.3	-1.1	2.8	2.2	-0.7	50 30	30	30	30	30	30
Methylcyclohexane	-10.4 -0.4	0.1	0.0	7.0	3.9	-0.2	50 30	30	30	30	30	30
1,2-Dichloropropane	-4.4 -0.9	0.0	0.6	4.0	1.5	-0.8	50 30	30	30	30	30	30
t-Amyl ethyl ether	-8.5 0.7	-1.3	-0.3	5.0	3.2	1.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl methacrylate	-4.7 1.4	-4.1	-0.2	3.1	2.4	2.1	50 30	30	30	30	30	30
1,4-Dioxane	-24.6 18.3	0.4	-7.8	0.5	7.2	6.0	50 30	30	30	30	30	30
Dibromomethane	-0.9 0.6	-0.7	-2.4	1.7	2.2	-0.5	50 30	30	30	30	30	30
Bromodichloromethane	-9.9 4.2	-2.2	-1.7	2.8	4.7	2.2	50 30	30	30	30	30	30
2-Nitropropane	0.8 11.5	-6.7	-9.2	-11.2	14.3	0.6	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-4.4 2.1	-2.7	-1.7	3.0	3.3	0.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-11.7 3.9	-2.8	-1.5	4.9	4.9	2.2	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-7.2 -3.7	-7.1	7.8	-0.2	9.0	1.5	50 30	30	30	30	30	30
Toluene	-7.1 -2.3	3.0	-0.6	5.8	1.9	-0.8	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-10.5 4.2	-3.3	-4.7	5.1	5.5	3.8	50 30	30	30	30	30	30
Ethyl methacrylate	-9.3 1.8	-1.2	-1.7	5.2	4.6	0.6	50 30	30	30	30	30	30
1,1,2-Trichloroethane	3.3 -1.4	-1.7	-3.0	4.0	0.1	-1.2	50 30	30	30	30	30	30
Tetrachloroethene	-10.8 0.1	2.4	-1.5	6.6	2.7	0.6	50 30	30	30	30	30	30
1,3-Dichloropropane	-2.7 -1.8	0.1	-1.4	4.5	2.2	-0.9	50 30	30	30	30	30	30
2-Hexanone	-8.3 -3.4	-7.3	6.5	0.8	9.9	1.8	50 30	30	30	30	30	30
Dibromochloromethane	-12.1 5.9	-5.4	-3.8	4.2	6.1	5.1	50 30	30	30	30	30	30
1,2-Dibromoethane	-1.4 0.5	-0.1	-4.4	2.6	2.5	0.4	50 30	30	30	30	30	30
1-Chlorohexane	3.4 -3.2	-0.6	-3.1	4.8	0.8	-2.2	50 30	30	30	30	30	30
Chlorobenzene	-3.2 -3.7	1.2	-0.3	5.6	2.1	-1.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,1,1,2-Tetrachloroethane	-7.7 2.8	-2.9	-2.9	5.2	3.6	1.8	50 30	30	30	30	30	30
Ethylbenzene	-5.2 -6.2	2.9	0.3	7.7	1.9	-1.5	50 30	30	30	30	30	30
m&p-Xylene	-9.1 -3.1	3.9	0.0	7.0	2.2	-0.8	50 30	30	30	30	30	30
o-Xylene	-8.4 -1.1	1.9	-0.7	6.4	2.5	-0.7	50 30	30	30	30	30	30
Styrene	-10.0 0.4	-2.1	-1.9	6.9	5.2	1.6	50 30	30	30	30	30	30
Bromoform	-18.7 11.6	-9.3	-6.3	5.9	7.8	9.0	50 30	30	30	30	30	30
Isopropylbenzene	-7.9 -7.1	3.6	0.1	8.7	3.4	-0.8	50 30	30	30	30	30	30
Cyclohexanone	-4.9 9.2	-1.8	-7.9	-4.0	7.3	2.1	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-5.1 -3.1	1.2	-0.7	4.1	3.1	0.5	50 30	30	30	30	30	30
Bromobenzene	-3.4 -2.4	0.9	-2.6	4.6	2.9	0.0	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-9.2 0.6	-4.3	-0.3	5.8	4.2	3.3	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-6.1 -2.4	0.8	-0.9	4.9	2.5	1.1	50 30	30	30	30	30	30
N-Propylbenzene	-4.8 -11.2	5.2	0.7	7.5	4.1	-1.5	50 30	30	30	30	30	30
2-Chlorotoluene	-4.0 -3.9	4.5	-1.4	4.8	1.5	-1.6	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-9.1 -5.8	1.9	0.1	7.4	4.9	0.6	50 30	30	30	30	30	30
4-Chlorotoluene	-5.8 -2.3	1.1	0.3	4.6	2.7	-0.6	50 30	30	30	30	30	30
tert-Butylbenzene	-7.5 2.8	-3.3	-6.2	7.1	4.7	2.5	50 30	30	30	30	30	30
Pentachloroethane	-13.0 5.7	-4.3	-2.5	6.2	4.9	3.1	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-10.5 -6.1	3.8	-0.1	7.4	5.2	0.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
sec-Butylbenzene	-11.8 -8.1	1.7	0.8	8.0	8.0	1.3	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-7.6 -2.7	3.6	-1.7	4.8	3.7	-0.1	50 30	30	30	30	30	30
p-Isopropyltoluene	-9.8 -6.5	1.1	-0.2	7.4	6.8	1.2	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-3.5 -3.0	3.3	-2.7	4.1	2.7	-0.9	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-4.3 -7.8	1.9	1.9	6.4	3.3	-1.5	50 30	30	30	30	30	30
Benzyl chloride	-18.2 4.6	-7.2	-2.9	6.8	8.7	8.2	50 30	30	30	30	30	30
1,3-Diethylbenzene	-12.1 -3.4	1.7	1.4	7.0	4.9	0.5	50 30	30	30	30	30	30
1,4-Diethylbenzene	-10.7 -4.1	3.3	-0.3	6.8	4.9	0.0	50 30	30	30	30	30	30
n-Butylbenzene	-16.2 -0.6	2.3	-1.4	6.8	7.1	2.0	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.5 -2.2	0.1	-1.0	3.8	3.6	0.2	50 30	30	30	30	30	30
1,2-Diethylbenzene	-8.7 -2.0	0.0	0.1	6.4	4.0	0.3	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-15.3 2.6	-3.0	0.1	7.6	2.7	5.3	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.7 -1.6	0.3	-1.3	4.8	6.5	1.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-12.4 -1.4	-0.3	-1.5	5.1	7.5	3.0	50 30	30	30	30	30	30
Hexachlorobutadiene	-8.3 1.9	-4.3	-4.0	3.7	8.5	2.5	50 30	30	30	30	30	30
Naphthalene	-4.9 -10.1	-0.4	1.2	6.6	5.2	2.5	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-4.6 -4.4	-0.4	-2.3	4.1	4.3	3.3	50 30	30	30	30	30	30
2-Methylnaphthalene	-9.3 -6.3	-6.8	-0.3	7.2	8.3	7.2	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.1 -1.9	-1.0	0.6	0.5	1.2	0.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 100578

SDG No.:

Instrument ID: 7159 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 15:51 Calibration End Date: 03/08/2021 20:15 Calibration ID: 21197

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,2-Dichloroethane-d4 (Surr)	0.5 0.5	-2.4	-1.0	0.3	0.2	1.9	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.3 0.0	0.1	-0.4	0.5	0.0	-0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	0.0 0.9	-0.3	-0.5	0.7	-0.7	-0.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X03.D
Lims ID: IC STD300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Mar-2021 15:51:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-003
Misc. Info.: IC STD300
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:51:32 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 08-Mar-2021 23:56:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.025	2.006	0.019	99	2458886	300.0	306.1	
6 Chloromethane	50	2.225	2.219	0.006	99	1979245	300.0	275.6	
8 Vinyl chloride	62	2.347	2.341	0.006	98	2061170	300.0	290.5	
9 Butadiene	39	2.353	2.341	0.012	92	1755997	300.0	271.4	
10 Bromomethane	94	2.688	2.676	0.012	92	1618197	300.0	284.9	
11 Chloroethane	64	2.785	2.773	0.012	99	1315089	300.0	282.0	
12 Dichlorofluoromethane	67	3.028	3.016	0.012	97	3309606	300.0	294.6	
13 Trichlorofluoromethane	101	3.095	3.083	0.012	97	3708566	300.0	299.8	
15 Pentane	43	3.150	3.144	0.006	94	3114373	300.0	301.6	
16 Ethanol	45	3.223	3.260	-0.037	91	440143	7500.4	8555.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.448	3.436	0.012	89	2121468	300.0	292.1	
18 Acrolein	56	3.546	3.533	0.013	99	5431209	2999.9	3035.0	
20 1,1-Dichloroethene	96	3.692	3.679	0.013	98	1702206	300.0	293.2	
22 112TCTFE	101	3.728	3.710	0.018	91	2010376	300.0	300.2	
21 Acetone	58	3.722	3.728	-0.006	100	452051	600.0	632.6	
23 Isopropyl alcohol	45	3.880	3.832	0.048	97	712343	1500.0	1569.9	
24 Iodomethane	142	3.898	3.892	0.006	99	3417457	300.0	286.3	
25 Carbon disulfide	76	4.014	4.002	0.012	100	5139133	300.0	295.2	
26 Methyl acetate	43	4.154	4.154	0.000	98	1801816	300.0	279.0	
27 3-Chloro-1-propene	41	4.190	4.178	0.012	88	2858651	300.0	284.1	
28 Methylene Chloride	84	4.385	4.379	0.006	90	1853054	300.0	284.9	
* 29 t-Butyl alcohol-d10 (IS)	65	4.397	4.391	0.006	0	233360	250.0	250.0	
31 2-Methyl-2-propanol	59	4.519	4.543	-0.024	99	1579421	1500.0	1542.2	
32 Acrylonitrile	53	4.720	4.720	0.000	98	938378	300.0	293.4	
33 Methyl tert-butyl ether	73	4.799	4.793	0.006	95	5825751	300.0	282.8	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	95	1947718	300.0	289.2	
36 Hexane	57	5.237	5.225	0.012	94	2944987	300.0	299.9	
37 1,1-Dichloroethane	63	5.474	5.462	0.012	96	3228854	300.0	287.4	
39 Isopropyl ether	45	5.529	5.517	0.012	91	5662657	300.0	285.2	
40 2-Chloro-1,3-butadiene	53	5.584	5.571	0.013	93	3154532	300.0	293.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.070	6.058	0.012	96	5682466	300.0	282.6	
S 42 1,2-Dichloroethene, Total	100				0			581.6	
43 2-Butanone (MEK)	43	6.265	6.259	0.006	99	2564691	600.0	570.1	
44 cis-1,2-Dichloroethene	96	6.307	6.301	0.006	82	2232190	300.0	292.4	
45 2,2-Dichloropropane	77	6.326	6.320	0.006	89	3328933	300.0	292.7	
46 Propionitrile	54	6.350	6.344	0.006	99	1792344	1500.0	1561.3	
47 Methacrylonitrile	67	6.575	6.557	0.018	91	2680673	750.0	746.9	
48 Chlorobromomethane	128	6.642	6.642	0.000	89	1225154	300.0	293.5	
49 Tetrahydrofuran	71	6.648	6.642	0.006	89	757027	600.0	652.2	
50 Chloroform	83	6.788	6.782	0.006	94	3560802	300.0	290.1	
$ 51 Dibromofluoromethane (Surr)	113	7.007	7.001	0.006	93	291985	50.0	49.1	
52 1,1,1-Trichloroethane	97	7.025	7.013	0.012	98	3561186	300.0	297.0	
54 Cyclohexane	56	7.129	7.123	0.006	90	3545814	300.0	304.3	
56 1,1-Dichloropropene	75	7.238	7.226	0.012	91	2842233	300.0	299.8	
55 Carbon tetrachloride	117	7.238	7.232	0.006	91	3303302	300.0	307.3	
58 Isobutyl alcohol	41	7.360	7.354	0.006	92	1286965	3750.0	4004.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.457	0.006	96	73082	50.0	50.3	
60 Benzene	78	7.506	7.494	0.012	97	7865491	300.0	290.7	
61 1,2-Dichloroethane	62	7.573	7.567	0.006	98	2816833	300.0	285.9	
62 Tert-amyl methyl ether	73	7.688	7.676	0.012	97	5761422	300.0	280.5	
* 64 Fluorobenzene (IS)	96	7.907	7.895	0.012	98	1137315	50.0	50.0	
65 n-Heptane	43	7.914	7.914	0.000	91	2900896	300.0	295.9	
66 n-Butanol	56	8.242	8.242	0.000	90	2083687	7500.0	8388.6	
67 Trichloroethene	95	8.388	8.382	0.006	96	2235167	300.0	301.4	
68 Methylcyclohexane	83	8.704	8.698	0.006	92	4171500	300.0	298.8	
70 1,2-Dichloropropane	63	8.723	8.717	0.006	70	1955185	300.0	297.2	
69 2-ethoxy-2-methyl butane	87	8.729	8.723	0.006	96	3395053	300.0	302.2	
71 Methyl methacrylate	69	8.796	8.790	0.006	89	1856168	300.0	304.3	
72 1,4-Dioxane	88	8.808	8.802	0.006	32	221041	3750.0	4434.7	M
74 Dibromomethane	93	8.838	8.832	0.006	92	1381795	300.0	301.9	
75 Dichlorobromomethane	83	9.069	9.063	0.006	99	2879688	300.0	312.5	
77 2-Nitropropane	41	9.325	9.325	0.000	99	1817438	600.0	669.1	
78 2-Chloroethyl vinyl ether	63	9.416	9.410	0.006	95	1483411	300.0	306.2	
79 cis-1,3-Dichloropropene	75	9.605	9.599	0.006	94	3410082	300.0	311.7	
80 4-Methyl-2-pentanone (MIBK)	43	9.763	9.757	0.006	95	5457944	600.0	577.8	
$ 81 Toluene-d8 (Surr)	98	9.909	9.903	0.006	94	1171357	50.0	50.0	
82 Toluene	92	9.982	9.976	0.006	98	5402372	300.0	293.1	
S 83 1,3-Dichloropropene, Total	100				0			624.2	
84 trans-1,3-Dichloropropene	75	10.231	10.225	0.006	94	3194614	300.0	312.5	
85 Ethyl methacrylate	69	10.286	10.280	0.006	89	3173055	300.0	305.4	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	92	1947507	300.0	295.9	
87 Tetrachloroethene	166	10.523	10.523	0.000	98	2846880	300.0	300.3	
88 1,3-Dichloropropane	76	10.596	10.590	0.006	93	3123798	300.0	294.7	
89 2-Hexanone	43	10.633	10.633	0.000	96	4151152	600.0	579.7	
90 Chlorodibromomethane	129	10.809	10.809	0.000	92	2510883	300.0	317.7	
91 Ethylene Dibromide	107	10.919	10.919	0.000	98	2194314	300.0	301.5	
S 92 Xylenes, Total	106				0			878.0	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	86	941593	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	97	3231452	300.0	290.3	
95 Chlorobenzene	112	11.375	11.375	0.000	95	6240250	300.0	288.9	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	95	2480990	300.0	308.4	
97 Ethylbenzene	91	11.454	11.454	0.000	98	10387895	300.0	281.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	96	8675459	600.0	581.1	
99 o-Xylene	106	11.898	11.898	0.000	96	4372536	300.0	296.8	
100 Styrene	104	11.917	11.911	0.006	93	7205052	300.0	301.2	
101 Bromoform	173	12.075	12.075	0.000	97	2013701	300.0	334.9	
102 Isopropylbenzene	105	12.196	12.196	0.000	96	10997267	300.0	278.6	
103 Cyclohexanone	55	12.269	12.269	0.000	93	846803	3750.0	4096.1	
$ 104 4-Bromofluorobenzene (Surr)	95	12.342	12.342	0.000	94	470499	50.0	50.4	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	96	2953240	300.0	290.6	
106 Bromobenzene	156	12.464	12.464	0.000	92	3077463	300.0	292.7	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	94	2721751	750.0	754.6	
108 1,2,3-Trichloropropane	110	12.488	12.488	0.000	85	1055551	300.0	292.8	
109 N-Propylbenzene	91	12.525	12.525	0.000	97	12097386	300.0	266.3	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	2876716	300.0	288.4	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	95	9633382	300.0	282.6	
112 4-Chlorotoluene	126	12.695	12.695	0.000	97	2971828	300.0	293.0	
113 tert-Butylbenzene	134	12.902	12.902	0.000	92	2411898	300.0	308.3	
114 Pentachloroethane	167	12.939	12.939	0.000	93	2050549	300.0	317.1	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	9838324	300.0	281.7	
116 sec-Butylbenzene	105	13.066	13.066	0.000	95	11674617	300.0	275.8	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	97	5799115	300.0	291.9	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	94	10682761	300.0	280.5	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	-0.001	91	573775	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	94	5904782	300.0	291.0	
121 1,2,3-Trimethylbenzene	105	13.255	13.249	0.006	97	9626800	300.0	276.7	
122 Benzyl chloride	91	13.316	13.316	0.000	99	7251691	300.0	313.9	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	94	6613211	300.0	289.9	
124 p-Diethylbenzene	119	13.450	13.444	0.006	92	6906630	300.0	287.6	
125 n-Butylbenzene	92	13.468	13.468	0.000	96	5290175	300.0	298.1	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	98	5568850	300.0	293.4	
127 o-diethylbenzene	119	13.523	13.517	0.006	95	5524871	300.0	294.1	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	89	816897	300.0	307.8	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	98	4103109	300.0	295.3	
131 1,2,4-Trichlorobenzene	180	14.599	14.599	0.000	95	3607753	300.0	295.8	
132 Hexachlorobutadiene	225	14.678	14.679	-0.001	98	1574231	300.0	305.8	
133 Naphthalene	128	14.782	14.782	0.000	98	10639162	300.0	269.8	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	3294690	300.0	286.8	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	91	6266130	300.0	281.0	
S 144 Total Diethylbenzene	1				0			871.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	30.00	Units: uL	
MSV_V_ETOH_00011	Amount Added:	30.00	Units: uL	
MSV_V_2CEVE_00144	Amount Added:	15.00	Units: uL	
MSV_V_VOA3_00072	Amount Added:	6.00	Units: uL	
MSV_V_VOA6_00078	Amount Added:	15.00	Units: uL	
MSV_DCFM_00036	Amount Added:	7.50	Units: uL	
MSV_V_VOA1_00132	Amount Added:	15.00	Units: uL	
MSV_V_Gas_00219	Amount Added:	7.50	Units: uL	
MSV_HP11_ISSS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Mar-2021 09:51:34 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X03.D

Injection Date: 08-Mar-2021 15:51:30 Instrument ID: 7159 Operator ID: kas02648

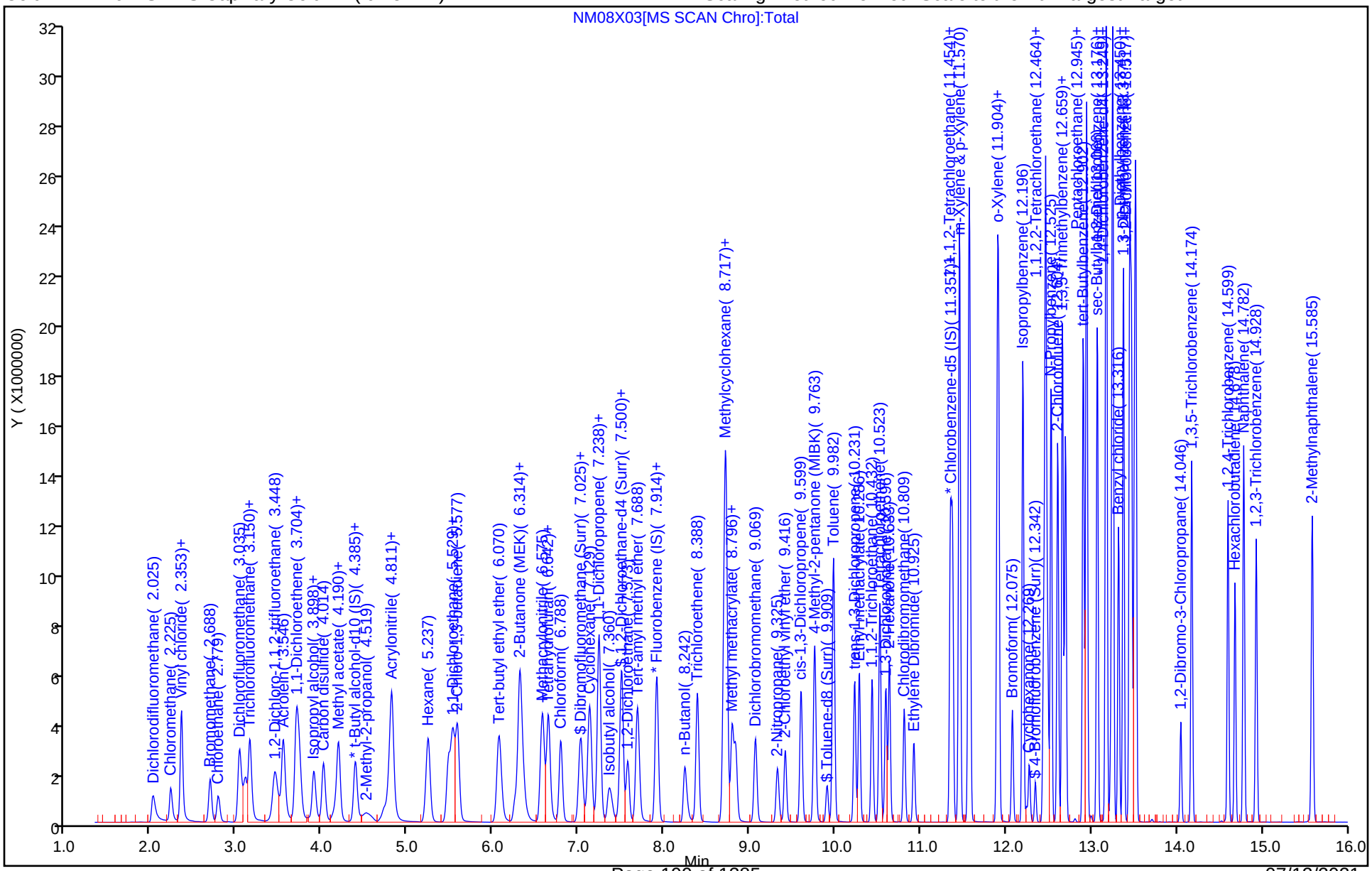
Lims ID: IC STD300 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

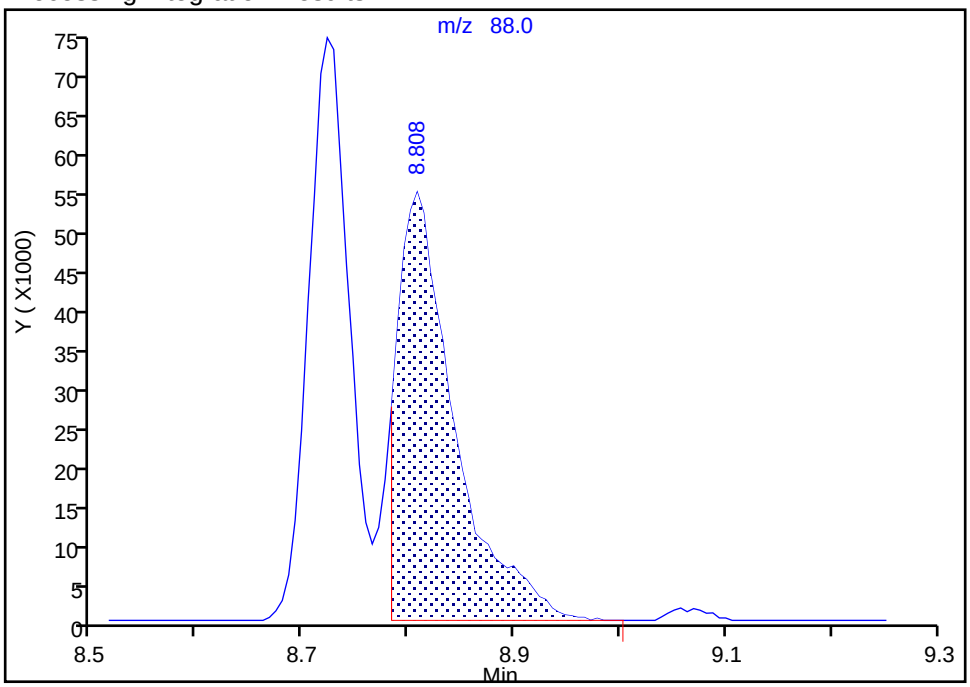
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Injection Date:	08-Mar-2021 15:51:30	Instrument ID:	7159		
Lims ID:	IC STD300				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

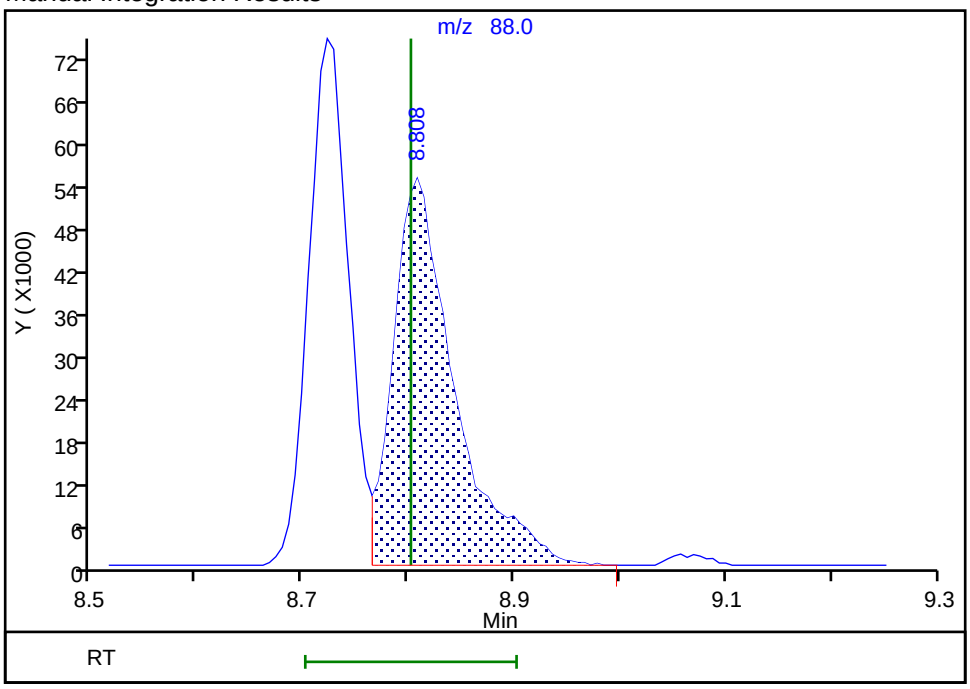
Processing Integration Results

RT: 8.81
Area: 206552
Amount: 3911.5150
Amount Units: ug/l



Manual Integration Results

RT: 8.81
Area: 221041
Amount: 4434.6911
Amount Units: ug/l



Reviewer: campbellme, 08-Mar-2021 23:55:25

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X04.D
Lims ID: IC STD100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Mar-2021 16:13:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-004
Misc. Info.: IC STD100
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:51:44 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 08-Mar-2021 23:57:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.013	2.006	0.007	99	864403	100.0	104.1	
6 Chloromethane	50	2.219	2.219	0.000	99	712872	100.0	96.0	
8 Vinyl chloride	62	2.341	2.341	0.000	98	746809	100.0	101.8	
9 Butadiene	39	2.347	2.341	0.006	92	625900	100.0	93.6	
10 Bromomethane	94	2.682	2.676	0.006	91	576931	100.0	98.2	
11 Chloroethane	64	2.779	2.773	0.006	99	480539	100.0	99.7	
12 Dichlorofluoromethane	67	3.023	3.016	0.006	97	1155186	100.0	99.4	
13 Trichlorofluoromethane	101	3.089	3.083	0.006	97	1318002	100.0	103.0	
15 Pentane	43	3.144	3.144	0.000	96	1066569	100.0	99.9	
16 Ethanol	45	3.223	3.260	-0.037	92	157665	2500.1	2662.5	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.436	0.000	89	743029	100.0	98.9	
18 Acrolein	56	3.540	3.533	0.007	99	2004655	1000.0	973.2	
20 1,1-Dichloroethene	96	3.692	3.679	0.013	98	595875	100.0	99.3	
22 112TCTFE	101	3.716	3.710	0.006	91	714323	100.0	103.2	
21 Acetone	58	3.716	3.728	-0.012	61	166114	200.0	201.9	
23 Isopropyl alcohol	45	3.880	3.832	0.048	96	257904	500.0	493.8	
24 Iodomethane	142	3.892	3.892	0.000	99	1231399	100.0	99.8	
25 Carbon disulfide	76	4.008	4.002	0.006	100	1817820	100.0	101.0	
26 Methyl acetate	43	4.148	4.154	-0.006	98	628266	100.0	94.1	
27 3-Chloro-1-propene	41	4.184	4.178	0.006	88	1012500	100.0	97.3	
28 Methylene Chloride	84	4.385	4.379	0.006	90	667294	100.0	99.2	
* 29 t-Butyl alcohol-d10 (IS)	65	4.397	4.391	0.006	0	268615	250.0	250.0	M
31 2-Methyl-2-propanol	59	4.513	4.543	-0.030	99	592344	500.0	502.5	
32 Acrylonitrile	53	4.720	4.720	0.000	98	348194	100.0	105.3	
33 Methyl tert-butyl ether	73	4.793	4.793	0.000	95	2108023	100.0	99.0	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	98	682619	100.0	98.0	
36 Hexane	57	5.231	5.225	0.006	94	1031475	100.0	101.6	
37 1,1-Dichloroethane	63	5.468	5.462	0.006	97	1144079	100.0	98.5	
39 Isopropyl ether	45	5.523	5.517	0.006	91	2006041	100.0	97.7	
40 2-Chloro-1,3-butadiene	53	5.578	5.571	0.007	93	1102582	100.0	99.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.058	6.058	0.000	96	2036304	100.0	98.0	
S 42 1,2-Dichloroethene, Total	100				0			197.3	
43 2-Butanone (MEK)	43	6.253	6.259	-0.006	99	918154	200.0	197.4	
44 cis-1,2-Dichloroethene	96	6.302	6.301	0.001	85	783414	100.0	99.2	
45 2,2-Dichloropropane	77	6.320	6.320	0.000	90	1169047	100.0	99.4	
46 Propionitrile	54	6.344	6.344	0.000	99	640539	500.0	484.7	
47 Methacrylonitrile	67	6.563	6.557	0.006	91	934591	250.0	251.9	
48 Chlorobromomethane	128	6.642	6.642	0.000	87	431965	100.0	100.1	
49 Tetrahydrofuran	71	6.642	6.642	0.000	81	269351	200.0	201.6	
50 Chloroform	83	6.788	6.782	0.006	94	1262916	100.0	99.5	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	309357	50.0	50.3	
52 1,1,1-Trichloroethane	97	7.019	7.013	0.006	98	1242458	100.0	100.2	
54 Cyclohexane	56	7.123	7.123	0.000	91	1228521	100.0	102.0	
56 1,1-Dichloropropene	75	7.232	7.226	0.006	93	978693	100.0	99.9	
55 Carbon tetrachloride	117	7.238	7.232	0.006	97	1149862	100.0	103.5	
58 Isobutyl alcohol	41	7.354	7.354	0.000	92	465092	1250.0	1257.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.457	0.000	97	76584	50.0	51.0	
60 Benzene	78	7.500	7.494	0.006	97	2766612	100.0	98.9	
61 1,2-Dichloroethane	62	7.567	7.567	0.000	98	972047	100.0	95.4	
62 Tert-amyl methyl ether	73	7.683	7.676	0.007	97	2081290	100.0	98.0	
* 64 Fluorobenzene (IS)	96	7.902	7.895	0.007	99	1175853	50.0	50.0	
65 n-Heptane	43	7.914	7.914	0.000	95	998018	100.0	98.5	
66 n-Butanol	56	8.236	8.242	-0.006	90	732492	2500.0	2561.9	
67 Trichloroethene	95	8.382	8.382	0.000	97	761195	100.0	99.3	
68 Methylcyclohexane	83	8.698	8.698	0.000	93	1440711	100.0	99.8	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	73	674759	100.0	99.2	
69 2-ethoxy-2-methyl butane	87	8.723	8.723	0.000	93	1176103	100.0	101.3	
71 Methyl methacrylate	69	8.796	8.790	0.006	88	644123	100.0	102.1	
72 1,4-Dioxane	88	8.802	8.802	0.000	32	76027	1250.0	1325.1	M
74 Dibromomethane	93	8.826	8.832	-0.006	92	470825	100.0	99.5	
75 Dichlorobromomethane	83	9.064	9.063	0.001	99	973319	100.0	102.2	
77 2-Nitropropane	41	9.325	9.325	0.000	100	628795	200.0	201.1	
78 2-Chloroethyl vinyl ether	63	9.416	9.410	0.006	95	502923	100.0	100.4	
79 cis-1,3-Dichloropropene	75	9.599	9.599	0.000	94	1156072	100.0	102.2	
80 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	96	1982387	200.0	203.0	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1193406	50.0	49.7	
82 Toluene	92	9.982	9.976	0.006	98	1874613	100.0	99.2	
S 83 1,3-Dichloropropene, Total	100				0			206.0	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	95	1087328	100.0	103.8	
85 Ethyl methacrylate	69	10.280	10.280	0.000	89	1071355	100.0	100.6	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	666542	100.0	98.8	
87 Tetrachloroethene	166	10.524	10.523	0.001	98	977152	100.0	100.6	
88 1,3-Dichloropropane	76	10.590	10.590	0.000	93	1076326	100.0	99.1	
89 2-Hexanone	43	10.633	10.633	0.000	97	1494210	200.0	203.6	
90 Chlorodibromomethane	129	10.809	10.809	0.000	89	851414	100.0	105.1	
91 Ethylene Dibromide	107	10.919	10.919	0.000	99	748771	100.0	100.4	
S 92 Xylenes, Total	106				0			297.8	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	85	965188	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	97	1115740	100.0	97.8	
95 Chlorobenzene	112	11.369	11.375	-0.006	95	2177402	100.0	98.3	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	94	839547	100.0	101.8	
97 Ethylbenzene	91	11.454	11.454	0.000	98	3727211	100.0	98.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	99	3036995	200.0	198.5	
99 o-Xylene	106	11.898	11.898	0.000	96	1499799	100.0	99.3	
100 Styrene	104	11.911	11.911	0.000	95	2489842	100.0	101.6	
101 Bromoform	173	12.075	12.075	0.000	97	672088	100.0	109.0	
102 Isopropylbenzene	105	12.197	12.196	0.001	96	4013814	100.0	99.2	
103 Cyclohexanone	55	12.270	12.269	0.001	92	303649	1250.0	1276.0	
$ 104 4-Bromofluorobenzene (Surr)	95	12.343	12.342	0.001	94	477740	50.0	50.0	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	96	1022410	100.0	100.5	
106 Bromobenzene	156	12.464	12.464	0.000	95	1052383	100.0	100.0	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	91	931856	250.0	258.1	
108 1,2,3-Trichloropropane	110	12.489	12.488	0.001	85	364886	100.0	101.1	
109 N-Propylbenzene	91	12.525	12.525	0.000	98	4479706	100.0	98.5	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	982825	100.0	98.4	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	94	3431661	100.0	100.6	
112 4-Chlorotoluene	126	12.695	12.695	0.000	97	1009416	100.0	99.4	
113 tert-Butylbenzene	134	12.902	12.902	0.000	93	802559	100.0	102.5	
114 Pentachloroethane	167	12.939	12.939	0.000	93	667194	100.0	103.1	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	3504737	100.0	100.3	
116 sec-Butylbenzene	105	13.066	13.066	0.000	94	4294294	100.0	101.3	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	98	1985902	100.0	99.9	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	96	3856809	100.0	101.2	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	0.000	94	574287	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	95	2012992	100.0	99.1	
121 1,2,3-Trimethylbenzene	105	13.249	13.249	0.000	98	3430170	100.0	98.5	
122 Benzyl chloride	91	13.316	13.316	0.000	98	2502564	100.0	108.2	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	95	2295056	100.0	100.5	
124 p-Diethylbenzene	119	13.450	13.444	0.006	96	2404337	100.0	100.0	
125 n-Butylbenzene	92	13.468	13.468	0.000	97	1811674	100.0	102.0	
126 1,2-Dichlorobenzene	146	13.505	13.504	0.000	98	1902691	100.0	100.2	
127 o-diethylbenzene	119	13.517	13.517	0.000	95	1885377	100.0	100.3	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	88	279740	100.0	105.3	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	98	1417567	100.0	101.9	
131 1,2,4-Trichlorobenzene	180	14.600	14.599	0.001	94	1257666	100.0	103.0	
132 Hexachlorobutadiene	225	14.679	14.679	0.000	98	528227	100.0	102.5	
133 Naphthalene	128	14.782	14.782	0.000	97	4044264	100.0	102.5	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	1187861	100.0	103.3	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	92	2392554	100.0	107.2	
S 144 Total Diethylbenzene	1				0			300.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_V_2CEVE_00144	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00072	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00078	Amount Added:	5.00	Units: uL	
MSV_V_ETOH_00011	Amount Added:	10.00	Units: uL	
MSV_DCFM_00036	Amount Added:	2.50	Units: uL	
MSV_V_VOA1_00132	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00219	Amount Added:	2.50	Units: uL	
MSV_HP11_ISSS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Mar-2021 09:51:46 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X04.D

Injection Date: 08-Mar-2021 16:13:30 Instrument ID: 7159 Operator ID: kas02648

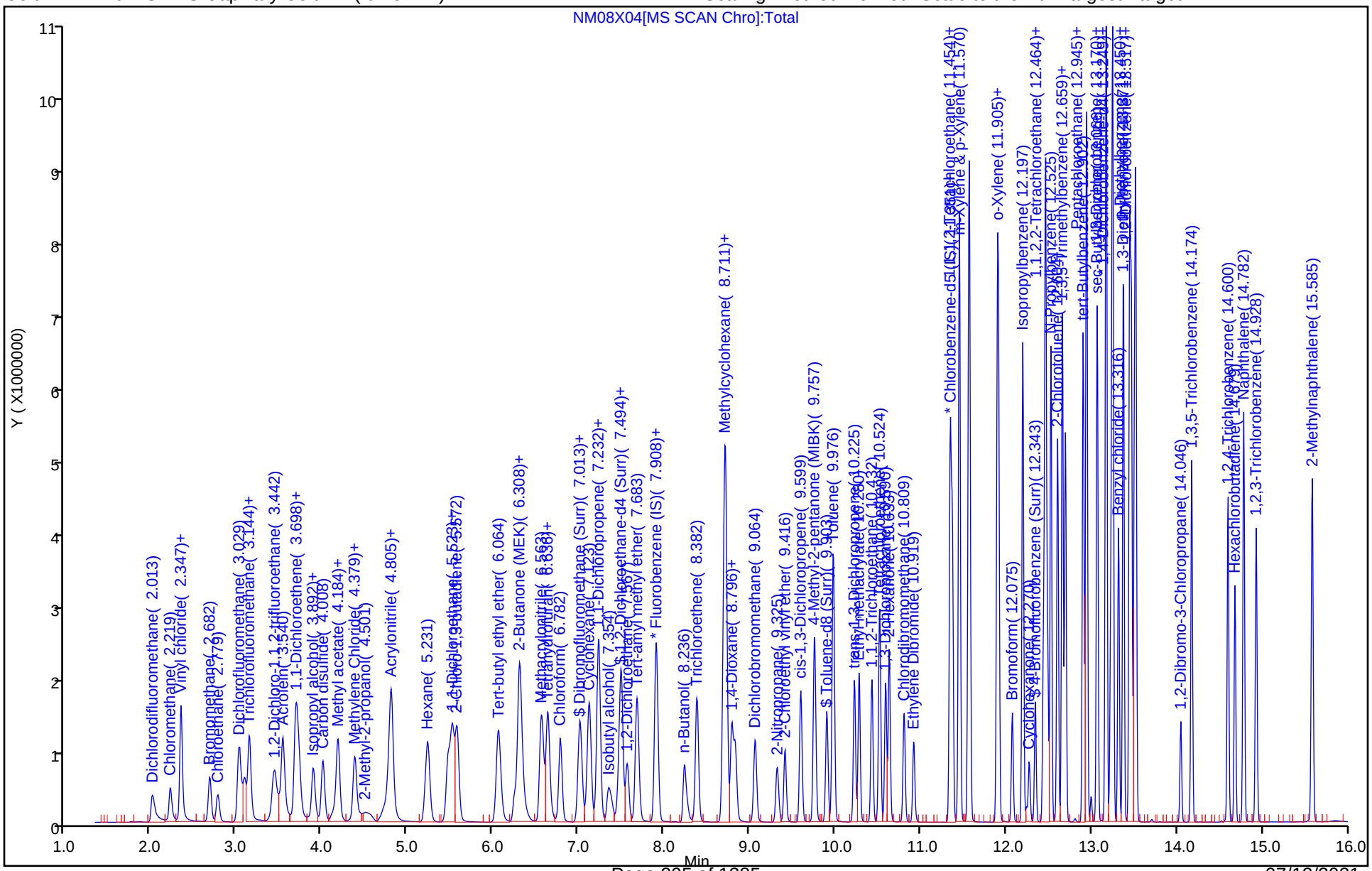
Lims ID: IC STD100 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

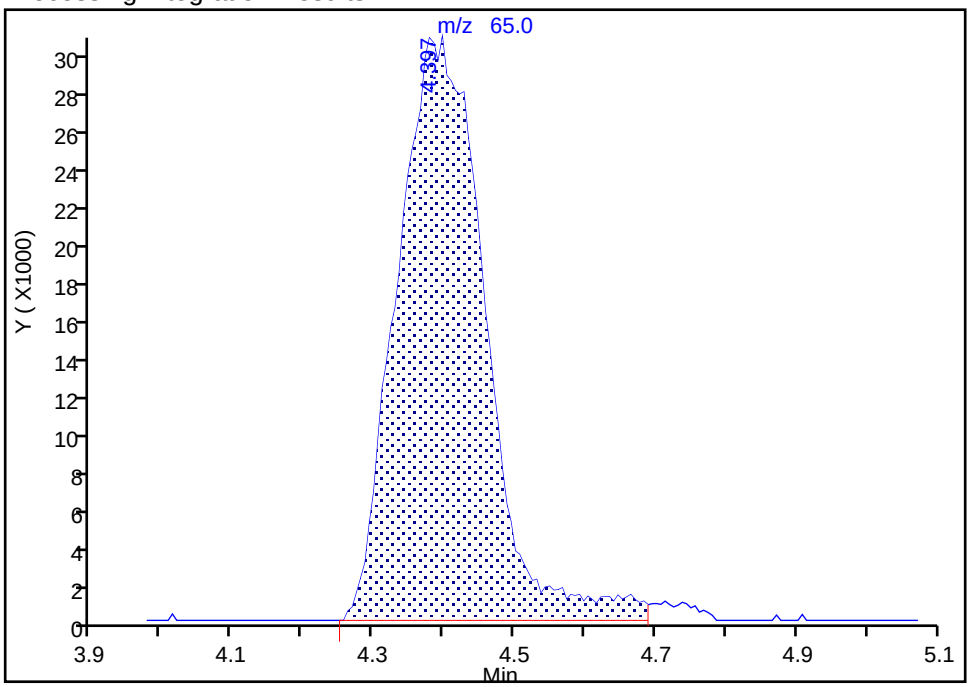
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Injection Date: 08-Mar-2021 16:13:30 Instrument ID: 7159
Lims ID: IC STD100
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

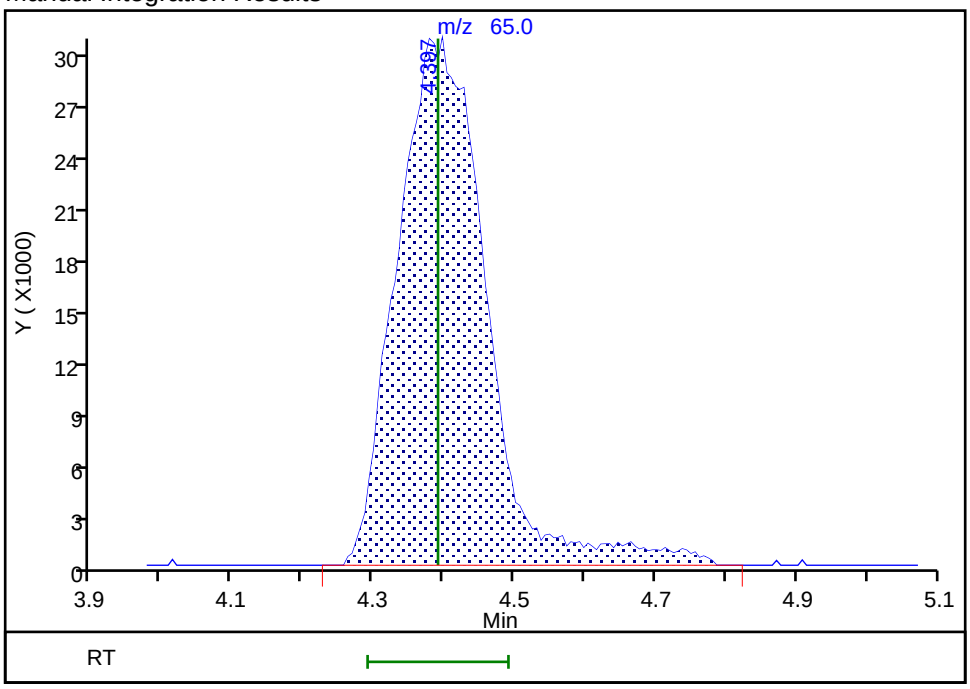
Processing Integration Results

RT: 4.40
Area: 264673
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 268615
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 08-Mar-2021 23:57:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

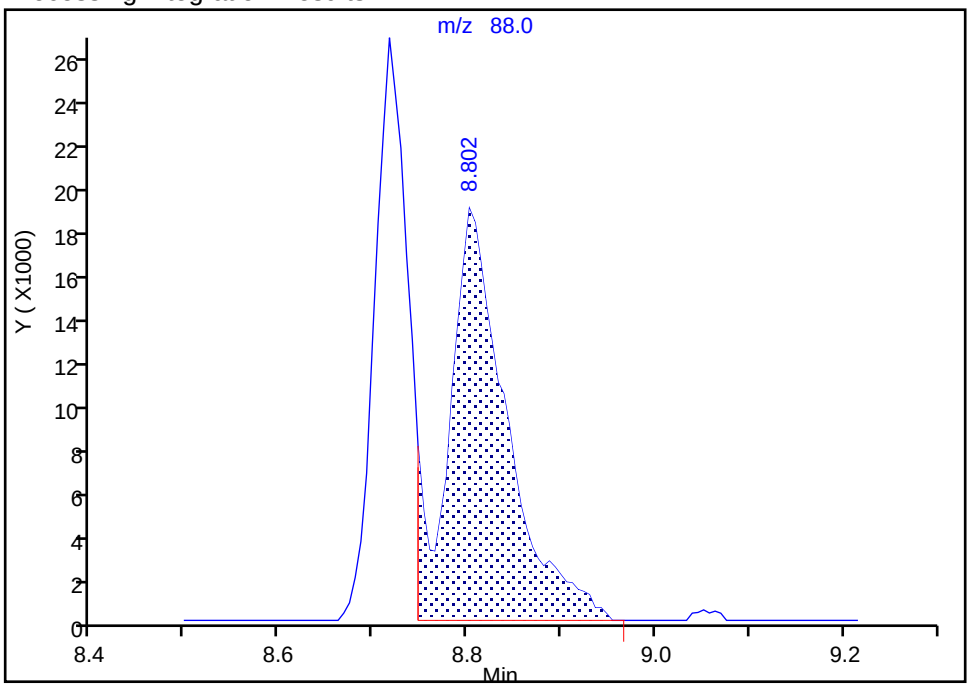
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Injection Date:	08-Mar-2021 16:13:30	Instrument ID:	7159		
Lims ID:	IC STD100				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

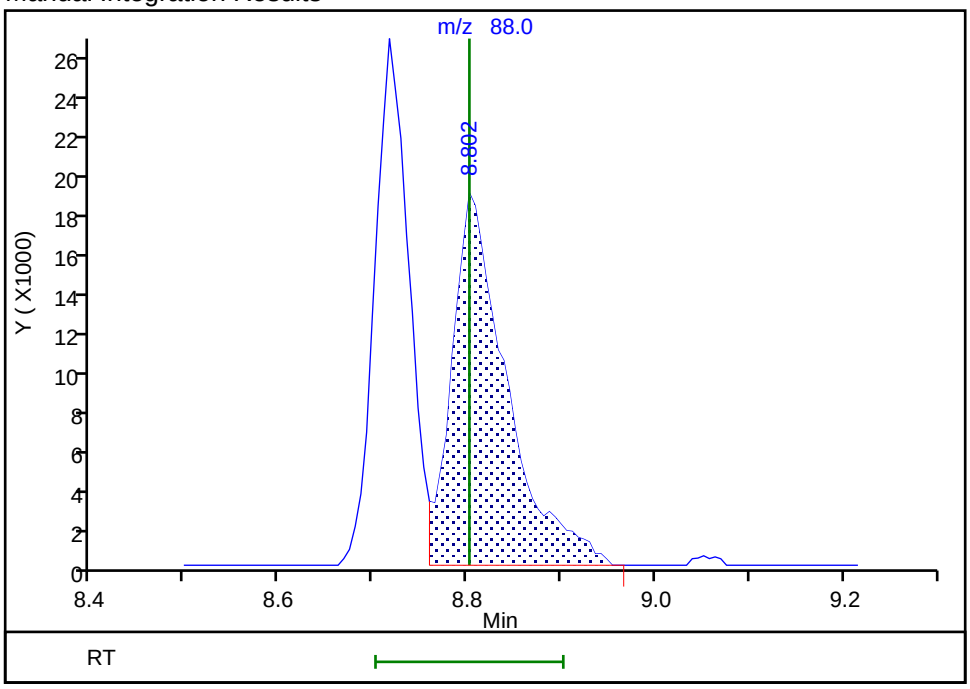
Processing Integration Results

RT: 8.80
Area: 80711
Amount: 1317.0463
Amount Units: ug/l



Manual Integration Results

RT: 8.80
Area: 76027
Amount: 1325.1180
Amount Units: ug/l



Reviewer: campbellme, 08-Mar-2021 23:57:33
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X05.D
Lims ID: ICIS STD50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 08-Mar-2021 16:35:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-005
Misc. Info.: ICIS STD50
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:51:56 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 09-Mar-2021 00:00:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.013	2.013	0.000	99	451313	50.0	55.2	
6 Chloromethane	50	2.219	2.219	0.000	99	377820	50.0	51.7	
8 Vinyl chloride	62	2.341	2.341	0.000	98	387942	50.0	53.7	
9 Butadiene	39	2.341	2.341	0.000	93	318904	50.0	48.4	
10 Bromomethane	94	2.682	2.682	0.000	92	303203	50.0	52.4	
11 Chloroethane	64	2.773	2.773	0.000	99	247999	50.0	52.3	
12 Dichlorofluoromethane	67	3.016	3.016	0.000	97	591581	50.0	51.7	
13 Trichlorofluoromethane	101	3.083	3.083	0.000	98	682202	50.0	54.2	
15 Pentane	43	3.144	3.144	0.000	95	546680	50.0	52.0	
16 Ethanol	45	3.235	3.235	0.000	23	71713	1250.1	1356.9	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.442	3.442	0.000	89	381554	50.0	51.6	
18 Acrolein	56	3.540	3.540	0.000	99	1067034	500.0	580.4	
20 1,1-Dichloroethene	96	3.686	3.686	0.000	98	304433	50.0	51.5	
22 112TCTFE	101	3.716	3.716	0.000	91	357930	50.0	52.5	
21 Acetone	58	3.710	3.710	0.000	63	86331	100.0	117.6	
23 Isopropyl alcohol	45	3.844	3.844	0.000	96	121666	250.0	261.0	
24 Iodomethane	142	3.892	3.892	0.000	99	624950	50.0	51.4	
25 Carbon disulfide	76	4.008	4.008	0.000	100	917408	50.0	51.8	
26 Methyl acetate	43	4.148	4.148	0.000	97	318892	50.0	48.5	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	89	513382	50.0	50.1	
28 Methylene Chloride	84	4.379	4.379	0.000	90	337888	50.0	51.0	
* 29 t-Butyl alcohol-d10 (IS)	65	4.385	4.385	0.000	0	239744	250.0	250.0	M
31 2-Methyl-2-propanol	59	4.513	4.513	0.000	99	270983	250.0	257.5	
32 Acrylonitrile	53	4.720	4.720	0.000	97	176336	50.0	54.2	
33 Methyl tert-butyl ether	73	4.793	4.793	0.000	96	1073561	50.0	51.2	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	98	344892	50.0	50.3	
36 Hexane	57	5.231	5.231	0.000	94	522805	50.0	52.3	
37 1,1-Dichloroethane	63	5.468	5.468	0.000	97	583773	50.0	51.0	
39 Isopropyl ether	45	5.523	5.523	0.000	91	1024831	50.0	50.7	
40 2-Chloro-1,3-butadiene	53	5.578	5.578	0.000	93	559502	50.0	51.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.058	6.058	0.000	96	1043538	50.0	51.0	
43 2-Butanone (MEK)	43	6.253	6.253	0.000	99	476978	100.0	104.2	
44 cis-1,2-Dichloroethene	96	6.302	6.302	0.000	82	400083	50.0	51.5	
45 2,2-Dichloropropane	77	6.320	6.320	0.000	91	592000	50.0	51.1	
46 Propionitrile	54	6.344	6.344	0.000	99	318022	250.0	269.6	
47 Methacrylonitrile	67	6.557	6.557	0.000	91	471380	125.0	129.0	
48 Chlorobromomethane	128	6.642	6.642	0.000	87	218860	50.0	51.5	
49 Tetrahydrofuran	71	6.642	6.642	0.000	82	137623	100.0	115.4	
50 Chloroform	83	6.788	6.788	0.000	94	632443	50.0	50.6	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	306587	50.0	50.6	
52 1,1,1-Trichloroethane	97	7.019	7.019	0.000	98	632983	50.0	51.9	
54 Cyclohexane	56	7.123	7.123	0.000	90	616047	50.0	51.9	
56 1,1-Dichloropropene	75	7.232	7.232	0.000	94	494523	50.0	51.3	
55 Carbon tetrachloride	117	7.232	7.232	0.000	96	574412	50.0	52.5	
58 Isobutyl alcohol	41	7.354	7.354	0.000	93	216441	625.0	655.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.464	7.464	0.000	97	74117	50.0	50.1	
60 Benzene	78	7.500	7.500	0.000	97	1395779	50.0	50.7	
61 1,2-Dichloroethane	62	7.567	7.567	0.000	98	505927	50.0	50.5	
62 Tert-amyl methyl ether	73	7.683	7.683	0.000	98	1076546	50.0	51.5	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	1157613	50.0	50.0	
65 n-Heptane	43	7.908	7.908	0.000	90	527925	50.0	52.9	
66 n-Butanol	56	8.242	8.242	0.000	89	346938	1250.0	1359.5	
67 Trichloroethene	95	8.382	8.382	0.000	96	385754	50.0	51.1	
68 Methylcyclohexane	83	8.698	8.698	0.000	93	738231	50.0	52.0	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	69	339764	50.0	50.7	
69 2-ethoxy-2-methyl butane	87	8.723	8.723	0.000	92	589958	50.0	51.6	
71 Methyl methacrylate	69	8.790	8.790	0.000	89	317987	50.0	51.2	
72 1,4-Dioxane	88	8.802	8.802	0.000	31	34305	625.0	669.9	M
74 Dibromomethane	93	8.832	8.832	0.000	92	238095	50.0	51.1	
75 Dichlorobromomethane	83	9.063	9.063	0.000	99	491049	50.0	52.4	
77 2-Nitropropane	41	9.325	9.325	0.000	99	318831	100.0	114.3	
78 2-Chloroethyl vinyl ether	63	9.416	9.416	0.000	94	254712	50.0	51.7	
79 cis-1,3-Dichloropropene	75	9.599	9.599	0.000	94	584228	50.0	52.5	
80 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	96	1047578	100.0	109.0	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1189999	50.0	50.0	
82 Toluene	92	9.976	9.976	0.000	98	954472	50.0	51.0	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	95	547684	50.0	52.7	
85 Ethyl methacrylate	69	10.280	10.280	0.000	88	552093	50.0	52.3	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	92	334611	50.0	50.0	
87 Tetrachloroethene	166	10.524	10.524	0.000	98	494646	50.0	51.4	
88 1,3-Dichloropropane	76	10.590	10.590	0.000	93	550113	50.0	51.1	
89 2-Hexanone	43	10.633	10.633	0.000	96	799733	100.0	109.9	
90 Chlorodibromomethane	129	10.809	10.809	0.000	89	425771	50.0	53.0	
91 Ethylene Dibromide	107	10.919	10.919	0.000	99	378959	50.0	51.2	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	85	956599	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	96	570014	50.0	50.4	
95 Chlorobenzene	112	11.369	11.369	0.000	96	1120658	50.0	51.1	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	94	423399	50.0	51.8	
97 Ethylbenzene	91	11.454	11.454	0.000	98	1910799	50.0	51.0	
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	99	1549804	100.0	102.2	
99 o-Xylene	106	11.898	11.898	0.000	96	766746	50.0	51.2	
100 Styrene	104	11.911	11.911	0.000	95	1277889	50.0	52.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Bromoform	173	12.075	12.075	0.000	97	329179	50.0	53.9	
102 Isopropylbenzene	105	12.197	12.197	0.000	96	2073550	50.0	51.7	
103 Cyclohexanone	55	12.270	12.270	0.000	92	142418	625.0	670.6	
$ 104 4-Bromofluorobenzene (Surr)	95	12.343	12.343	0.000	94	470631	50.0	49.7	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	98	517616	50.0	51.6	
106 Bromobenzene	156	12.464	12.464	0.000	95	534807	50.0	51.5	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	90	464022	125.0	130.2	
108 1,2,3-Trichloropropane	110	12.489	12.489	0.000	85	182639	50.0	51.3	
109 N-Propylbenzene	91	12.525	12.525	0.000	98	2335646	50.0	52.0	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	500289	50.0	50.8	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	94	1766093	50.0	52.4	
112 4-Chlorotoluene	126	12.695	12.695	0.000	97	514615	50.0	51.4	
113 tert-Butylbenzene	134	12.902	12.902	0.000	93	404621	50.0	52.3	
114 Pentachloroethane	167	12.939	12.939	0.000	92	335011	50.0	52.4	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	1815651	50.0	52.6	
116 sec-Butylbenzene	105	13.066	13.066	0.000	94	2259365	50.0	54.0	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	98	1018097	50.0	51.9	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	96	2010497	50.0	53.4	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	0.000	94	566983	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	94	1029016	50.0	51.3	
121 1,2,3-Trimethylbenzene	105	13.249	13.249	0.000	98	1776166	50.0	51.7	
122 Benzyl chloride	91	13.316	13.316	0.000	99	1240763	50.0	54.4	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	95	1181973	50.0	52.4	
124 p-Diethylbenzene	119	13.450	13.450	0.000	94	1244913	50.0	52.5	
125 n-Butylbenzene	92	13.468	13.468	0.000	97	938783	50.0	53.5	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	99	971308	50.0	51.8	
127 o-diethylbenzene	119	13.517	13.517	0.000	95	965343	50.0	52.0	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	87	134676	50.0	51.4	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	98	731216	50.0	53.3	
131 1,2,4-Trichlorobenzene	180	14.600	14.600	0.000	94	647998	50.0	53.8	
132 Hexachlorobutadiene	225	14.679	14.679	0.000	98	275982	50.0	54.2	
133 Naphthalene	128	14.782	14.782	0.000	97	2049023	50.0	52.6	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	592083	50.0	52.2	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	91	1193571	50.0	54.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_V_ETOH_00011	Amount Added:	10.00	Units: uL	
MSV_V_2CEVE_00144	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00072	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00078	Amount Added:	5.00	Units: uL	
MSV_DCFM_00036	Amount Added:	2.50	Units: uL	
MSV_V_VOA1_00132	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00219	Amount Added:	2.50	Units: uL	
MSV_HP11_ISSS_00005	Amount Added:	5.00	Units: uL	Run Reagent

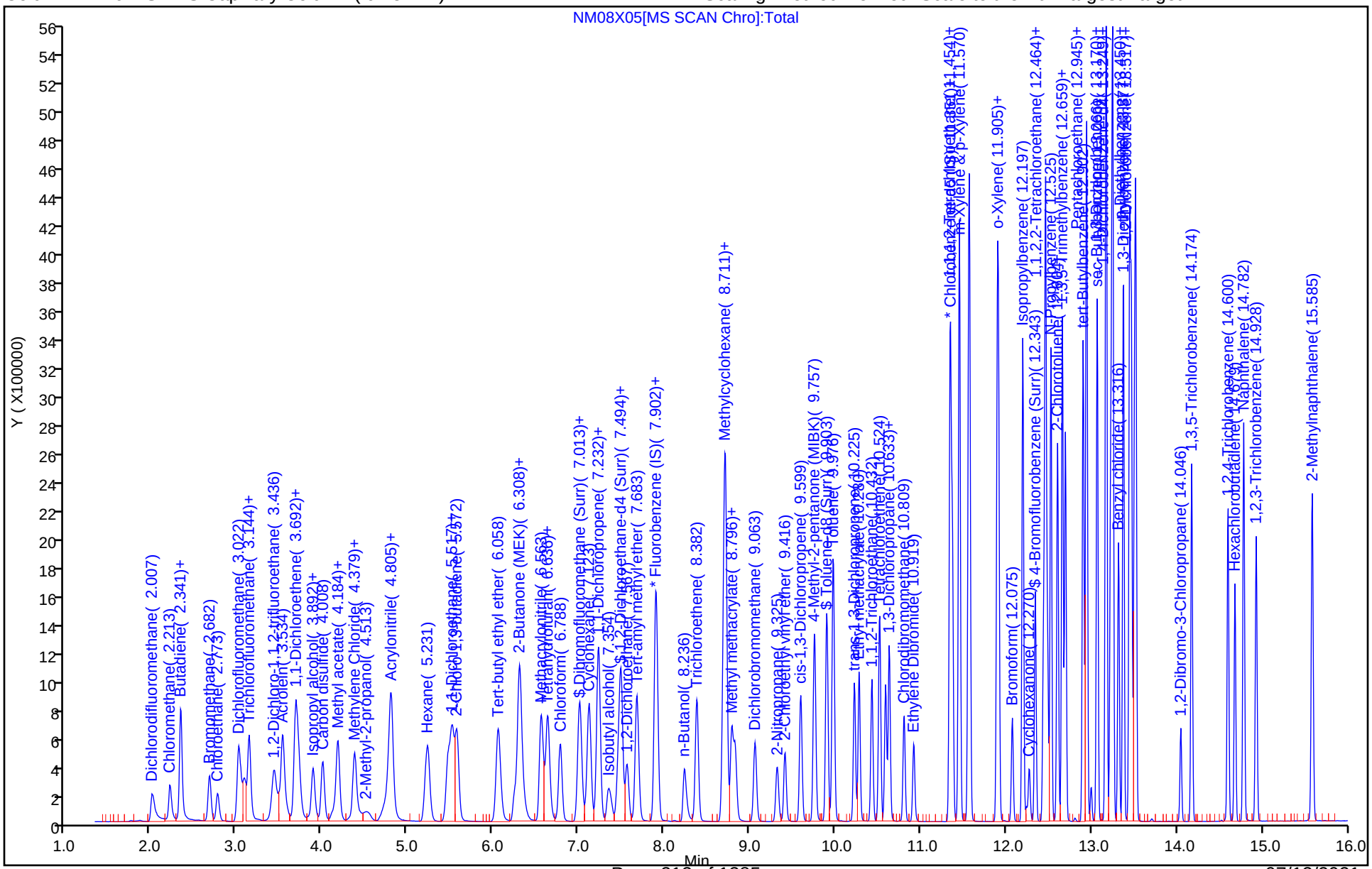
Report Date: 09-Mar-2021 09:51:57 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X05.D

Injection Date:	08-Mar-2021 16:35:30	Instrument ID:	7159	Operator ID:	kas02648
Lims ID:	ICIS STD50			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

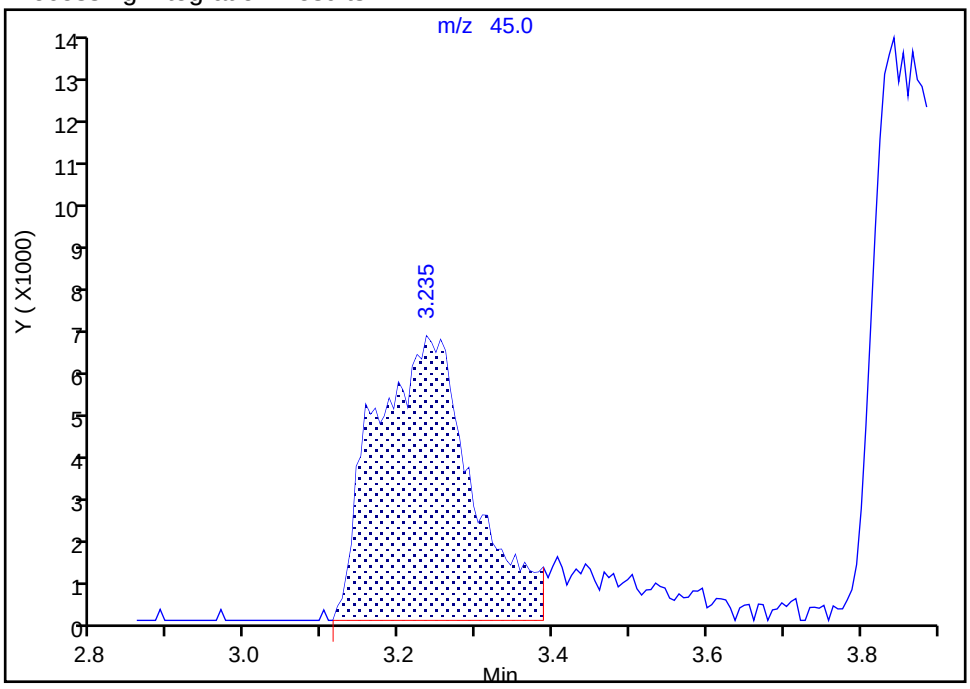
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Injection Date:	08-Mar-2021 16:35:30	Instrument ID:	7159		
Lims ID:	ICIS STD50				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Ethanol, CAS: 64-17-5

Signal: 1

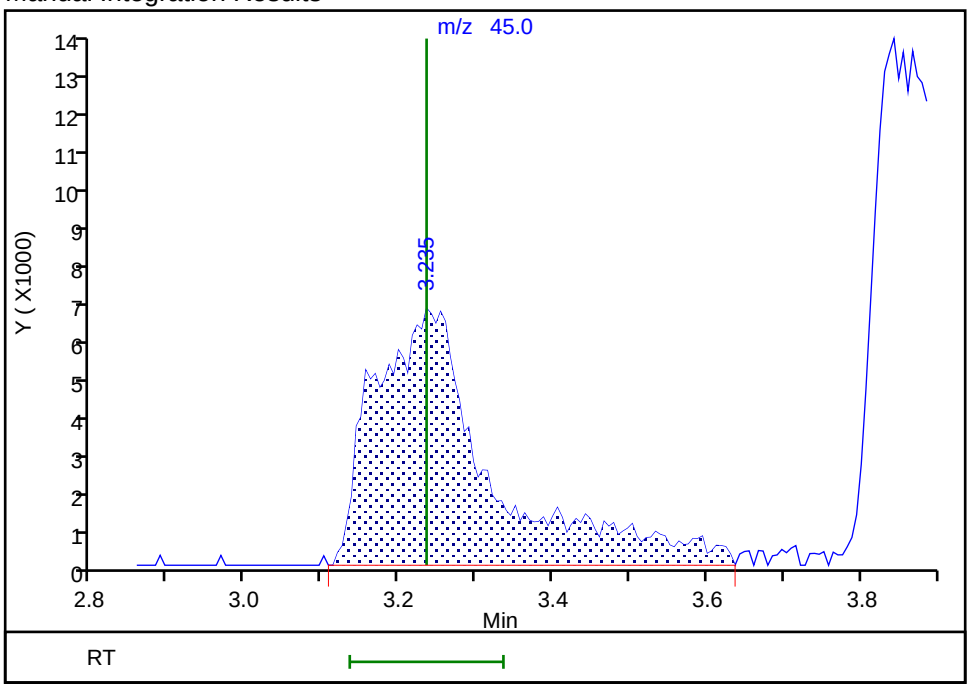
Processing Integration Results

RT: 3.24
Area: 59527
Amount: 10.564939
Amount Units: ug/l



Manual Integration Results

RT: 3.24
Area: 71713
Amount: 1356.8548
Amount Units: ug/l



Reviewer: campbellme, 08-Mar-2021 23:59:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

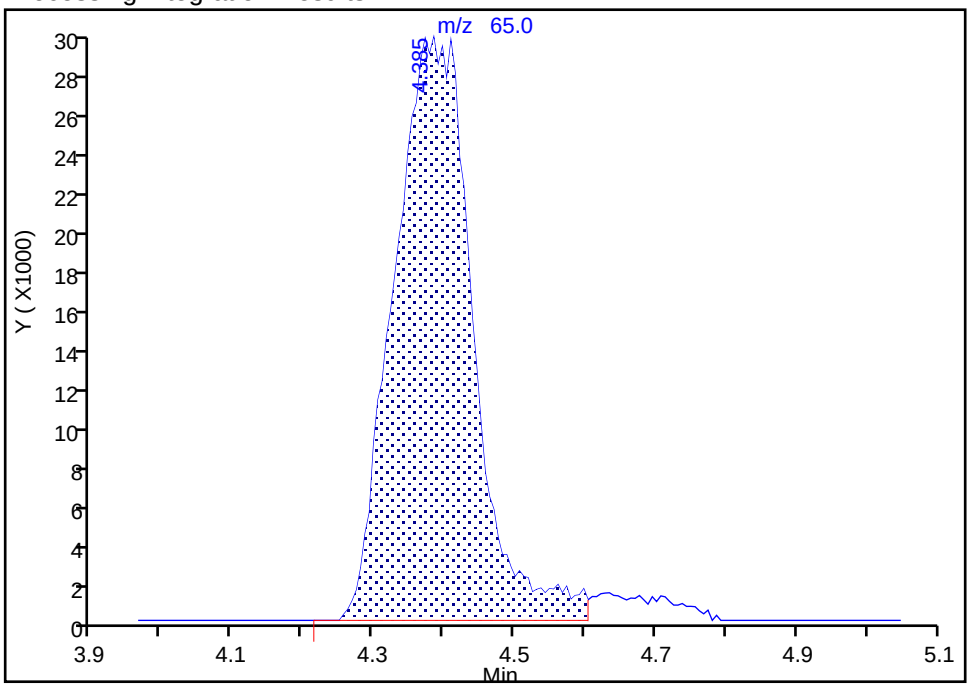
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Injection Date:	08-Mar-2021 16:35:30	Instrument ID:	7159		
Lims ID:	ICIS STD50				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

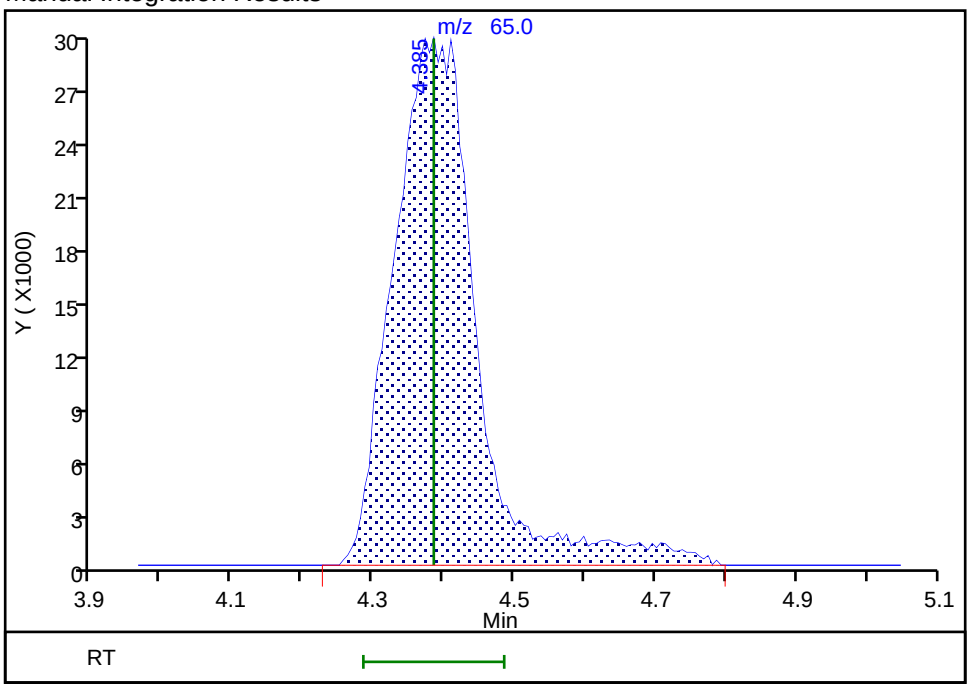
Processing Integration Results

RT: 4.39
Area: 229504
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 239744
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 08-Mar-2021 23:59:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

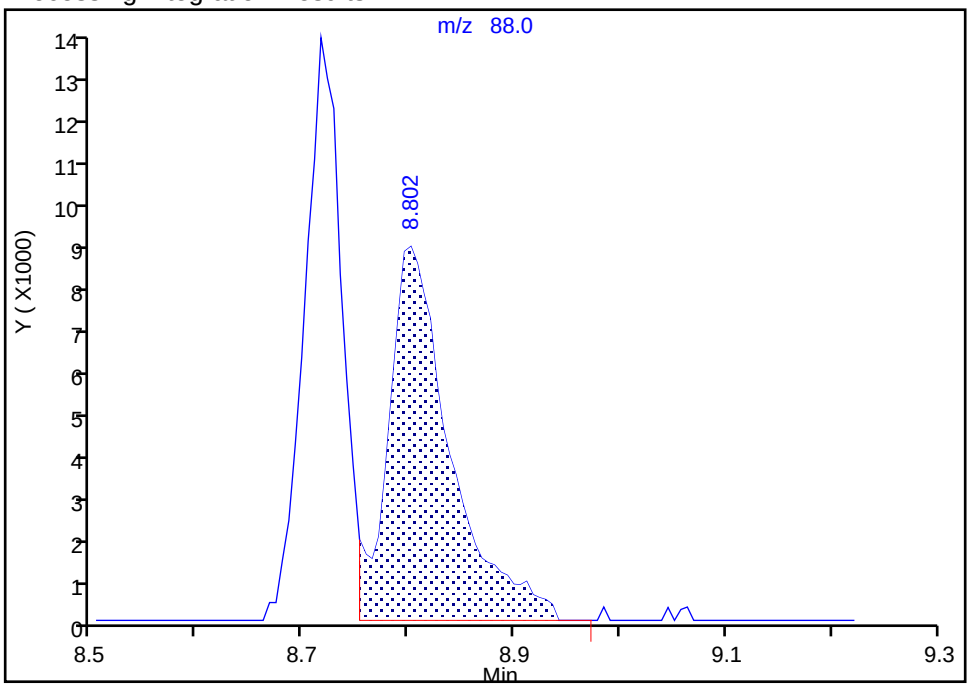
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Injection Date:	08-Mar-2021 16:35:30	Instrument ID:	7159		
Lims ID:	ICIS STD50				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

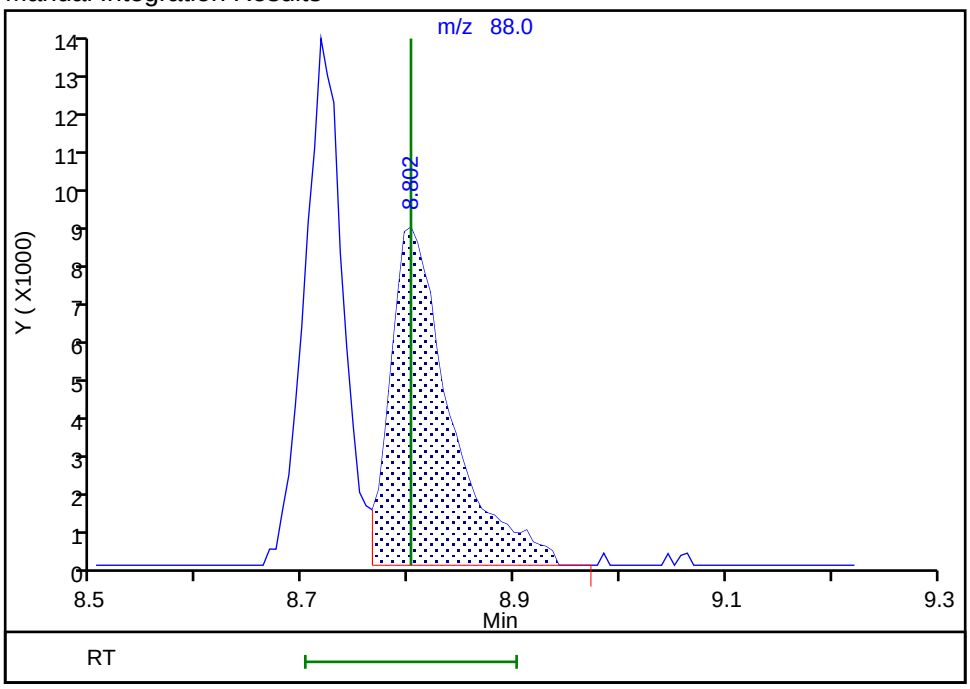
Processing Integration Results

RT: 8.80
Area: 35548
Amount: 660.0701
Amount Units: ug/l



Manual Integration Results

RT: 8.80
Area: 34305
Amount: 669.9257
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:00:11

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X06.D
Lims ID: IC STD20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Mar-2021 16:57:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-006
Misc. Info.: IC STD20
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:52:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 09-Mar-2021 00:01:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.006	2.006	0.000	99	170860	20.0	21.3	
6 Chloromethane	50	2.219	2.219	0.000	99	144446	20.0	20.1	
8 Vinyl chloride	62	2.341	2.341	0.000	85	147234	20.0	20.7	
9 Butadiene	39	2.341	2.341	0.000	93	134414	20.0	20.8	
10 Bromomethane	94	2.676	2.676	0.000	91	116897	20.0	20.6	
11 Chloroethane	64	2.773	2.773	0.000	99	94614	20.0	20.3	
12 Dichlorofluoromethane	67	3.016	3.016	0.000	99	214717	20.0	19.1	
13 Trichlorofluoromethane	101	3.083	3.083	0.000	97	253659	20.0	20.5	
15 Pentane	43	3.144	3.144	0.000	96	220536	20.0	21.3	
16 Ethanol	45	3.260	3.260	0.000	89	60726	1000.1	984.1	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.436	0.000	89	151427	20.0	20.8	
18 Acrolein	56	3.533	3.533	0.000	98	385125	200.0	179.4	
20 1,1-Dichloroethene	96	3.679	3.679	0.000	98	123463	20.0	21.3	
21 Acetone	58	3.728	3.728	0.000	98	32333	40.0	37.7	
22 112TCTFE	101	3.710	3.710	0.000	91	146559	20.0	21.9	
23 Isopropyl alcohol	45	3.832	3.832	0.000	96	112402	200.0	206.5	
24 Iodomethane	142	3.892	3.892	0.000	98	254300	20.0	21.3	
25 Carbon disulfide	76	4.002	4.002	0.000	100	365886	20.0	21.0	
26 Methyl acetate	43	4.154	4.154	0.000	97	127076	20.0	19.7	
27 3-Chloro-1-propene	41	4.178	4.178	0.000	88	209515	20.0	20.8	
28 Methylene Chloride	84	4.379	4.379	0.000	94	134868	20.0	20.7	
* 29 t-Butyl alcohol-d10 (IS)	65	4.391	4.391	0.000	0	279910	250.0	250.0	M
31 2-Methyl-2-propanol	59	4.543	4.543	0.000	99	254538	200.0	207.2	
32 Acrylonitrile	53	4.720	4.720	0.000	98	64991	20.0	20.3	
33 Methyl tert-butyl ether	73	4.793	4.793	0.000	95	427782	20.0	20.8	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	98	140486	20.0	20.8	
36 Hexane	57	5.225	5.225	0.000	94	210641	20.0	21.4	
37 1,1-Dichloroethane	63	5.462	5.462	0.000	96	235107	20.0	20.9	
39 Isopropyl ether	45	5.517	5.517	0.000	90	408351	20.0	20.6	
40 2-Chloro-1,3-butadiene	53	5.571	5.571	0.000	93	225346	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.058	6.058	0.000	97	416848	20.0	20.7	
S 42 1,2-Dichloroethene, Total	100				0			41.8	
43 2-Butanone (MEK)	43	6.259	6.259	0.000	99	176125	40.0	39.1	
44 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	82	159725	20.0	20.9	
45 2,2-Dichloropropane	77	6.320	6.320	0.000	88	242023	20.0	21.3	
46 Propionitrile	54	6.344	6.344	0.000	98	271763	200.0	197.4	
47 Methacrylonitrile	67	6.557	6.557	0.000	91	376580	100.0	104.9	
48 Chlorobromomethane	128	6.642	6.642	0.000	86	87458	20.0	20.9	
49 Tetrahydrofuran	71	6.642	6.642	0.000	78	50358	40.0	36.2	
50 Chloroform	83	6.782	6.782	0.000	96	256851	20.0	20.9	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	94	299278	50.0	50.3	
52 1,1,1-Trichloroethane	97	7.013	7.013	0.000	98	255944	20.0	21.3	
54 Cyclohexane	56	7.123	7.123	0.000	91	250517	20.0	21.5	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	93	200303	20.0	21.1	
55 Carbon tetrachloride	117	7.232	7.232	0.000	96	230092	20.0	21.4	
58 Isobutyl alcohol	41	7.354	7.354	0.000	92	192492	500.0	499.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.457	0.000	97	72931	50.0	50.1	
60 Benzene	78	7.494	7.494	0.000	98	570252	20.0	21.1	
61 1,2-Dichloroethane	62	7.567	7.567	0.000	98	198578	20.0	20.1	
62 Tert-amyl methyl ether	73	7.676	7.676	0.000	97	425901	20.0	20.7	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	1137963	50.0	50.0	
65 n-Heptane	43	7.914	7.914	0.000	89	205751	20.0	21.0	
66 n-Butanol	56	8.242	8.242	0.000	90	303685	1000.0	1019.3	
67 Trichloroethene	95	8.382	8.382	0.000	96	152577	20.0	20.6	
68 Methylcyclohexane	83	8.698	8.698	0.000	93	298870	20.0	21.4	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	70	136972	20.0	20.8	
69 2-ethoxy-2-methyl butane	87	8.723	8.723	0.000	94	236022	20.0	21.0	
71 Methyl methacrylate	69	8.790	8.790	0.000	89	125844	20.0	20.6	
72 1,4-Dioxane	88	8.802	8.802	0.000	37	30033	500.0	502.3	
74 Dibromomethane	93	8.832	8.832	0.000	92	93176	20.0	20.3	
75 Dichlorobromomethane	83	9.063	9.063	0.000	99	189512	20.0	20.6	
77 2-Nitropropane	41	9.325	9.325	0.000	99	115679	40.0	35.5	
78 2-Chloroethyl vinyl ether	63	9.410	9.410	0.000	95	99837	20.0	20.6	
79 cis-1,3-Dichloropropene	75	9.599	9.599	0.000	93	229733	20.0	21.0	
80 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	96	377284	40.0	39.9	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1159654	50.0	50.3	
82 Toluene	92	9.976	9.976	0.000	98	384390	20.0	21.2	
S 83 1,3-Dichloropropene, Total	100				0			42.0	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	95	211741	20.0	21.0	
85 Ethyl methacrylate	69	10.280	10.280	0.000	89	215288	20.0	21.0	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	134874	20.0	20.8	
87 Tetrachloroethene	166	10.523	10.523	0.000	98	199070	20.0	21.3	
88 1,3-Dichloropropane	76	10.590	10.590	0.000	93	218342	20.0	20.9	
89 2-Hexanone	43	10.633	10.633	0.000	97	284380	40.0	40.3	
90 Chlorodibromomethane	129	10.809	10.809	0.000	89	162352	20.0	20.8	
91 Ethylene Dibromide	107	10.919	10.919	0.000	99	147233	20.0	20.5	
S 92 Xylenes, Total	106				0			64.1	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	86	927813	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	96	229882	20.0	21.0	
95 Chlorobenzene	112	11.375	11.375	0.000	96	449774	20.0	21.1	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	94	166833	20.0	21.0	
97 Ethylbenzene	91	11.454	11.454	0.000	98	782871	20.0	21.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	99	629507	40.0	42.8	
99 o-Xylene	106	11.898	11.898	0.000	96	308755	20.0	21.3	
100 Styrene	104	11.911	11.911	0.000	95	503944	20.0	21.4	
101 Bromoform	173	12.075	12.075	0.000	97	125507	20.0	21.2	
102 Isopropylbenzene	105	12.196	12.196	0.000	95	845715	20.0	21.7	
103 Cyclohexanone	55	12.269	12.269	0.000	92	119076	500.0	480.2	
$ 104 4-Bromofluorobenzene (Surr)	95	12.342	12.342	0.000	93	463090	50.0	50.4	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	98	205542	20.0	20.8	
106 Bromobenzene	156	12.464	12.464	0.000	95	213682	20.0	20.9	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	94	370747	100.0	105.8	
108 1,2,3-Trichloropropane	110	12.488	12.488	0.000	86	73464	20.0	21.0	
109 N-Propylbenzene	91	12.525	12.525	0.000	98	948946	20.0	21.5	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	203109	20.0	21.0	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	94	711536	20.0	21.5	
112 4-Chlorotoluene	126	12.695	12.695	0.000	97	206034	20.0	20.9	
113 tert-Butylbenzene	134	12.902	12.902	0.000	92	162827	20.0	21.4	
114 Pentachloroethane	167	12.939	12.939	0.000	92	133387	20.0	21.2	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	729035	20.0	21.5	
116 sec-Butylbenzene	105	13.066	13.066	0.000	94	888342	20.0	21.6	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	98	404363	20.0	21.0	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	97	794649	20.0	21.5	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	0.000	96	557345	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	96	410338	20.0	20.8	
121 1,2,3-Trimethylbenzene	105	13.249	13.249	0.000	98	719471	20.0	21.3	
122 Benzyl chloride	91	13.316	13.316	0.000	99	479069	20.0	21.4	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	95	474163	20.0	21.4	
124 p-Diethylbenzene	119	13.444	13.444	0.000	96	498165	20.0	21.4	
125 n-Butylbenzene	92	13.468	13.468	0.000	97	368134	20.0	21.4	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	99	382726	20.0	20.8	
127 o-diethylbenzene	119	13.517	13.517	0.000	95	388233	20.0	21.3	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	87	55461	20.0	21.5	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	98	282863	20.0	21.0	
131 1,2,4-Trichlorobenzene	180	14.599	14.599	0.000	94	249018	20.0	21.0	
132 Hexachlorobutadiene	225	14.679	14.679	0.000	98	103747	20.0	20.7	
133 Naphthalene	128	14.782	14.782	0.000	97	816337	20.0	21.3	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	232269	20.0	20.8	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	92	464449	20.0	21.4	
S 144 Total Diethylbenzene	1				0			64.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	16.00	Units: uL	
MSV_V_2CEVE_00144	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00072	Amount Added:	1.60	Units: uL	
MSV_V_VOA2_00074	Amount Added:	4.00	Units: uL	
MSV_V_VOA6_00078	Amount Added:	4.00	Units: uL	
MSV_V_ETOH_00011	Amount Added:	16.00	Units: uL	
MSV_DCFM_00036	Amount Added:	2.00	Units: uL	
MSV_V_VOA1_00132	Amount Added:	4.00	Units: uL	
MSV_V_Gas_00219	Amount Added:	2.00	Units: uL	
MSV_HP11_ISSS_00005	Amount Added:	5.00	Units: uL	Run Reagent

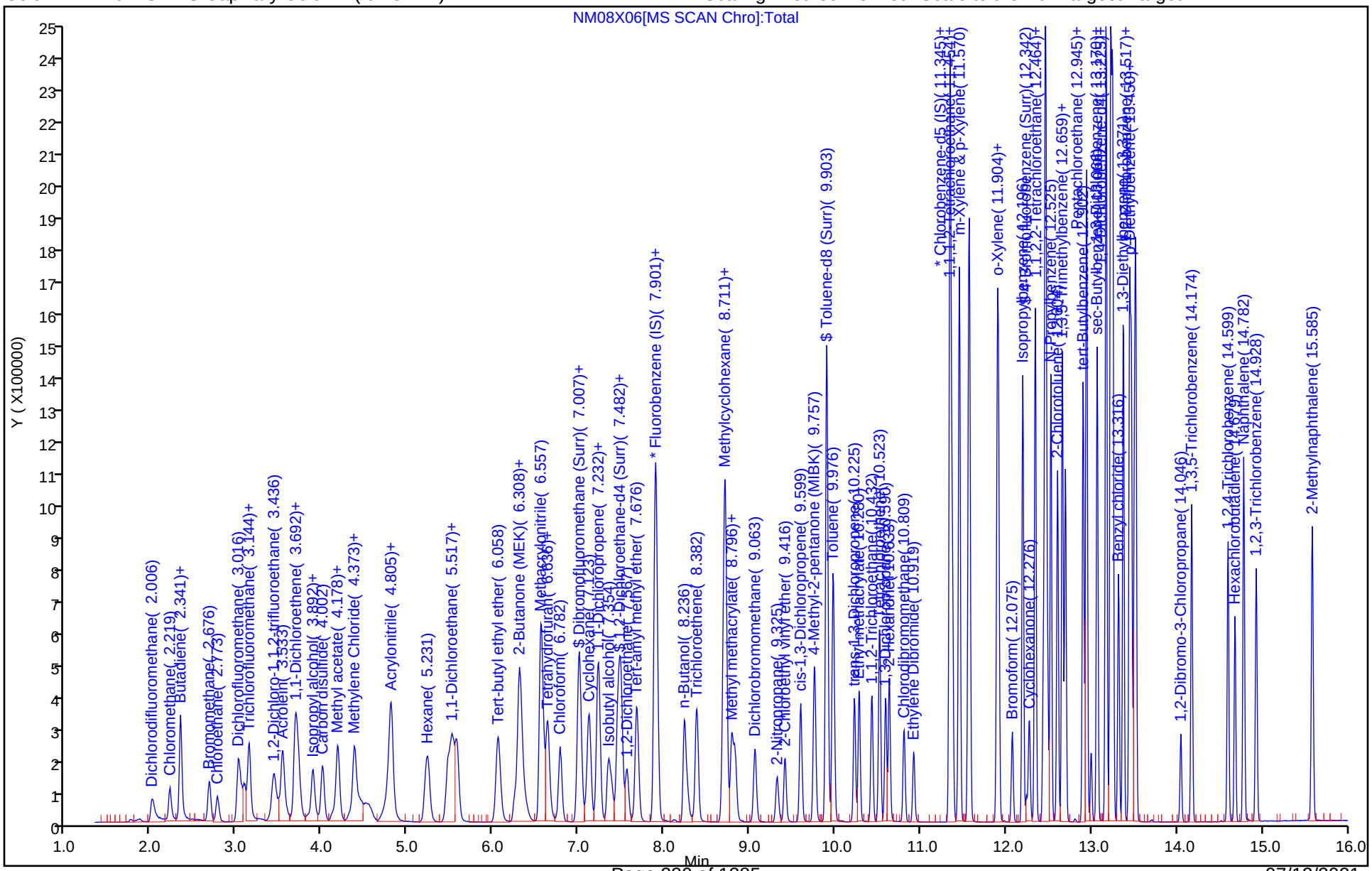
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	08-Mar-2021 16:57:30	Instrument ID:	7159	Operator ID:	kas02648
Lims ID:	IC STD20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

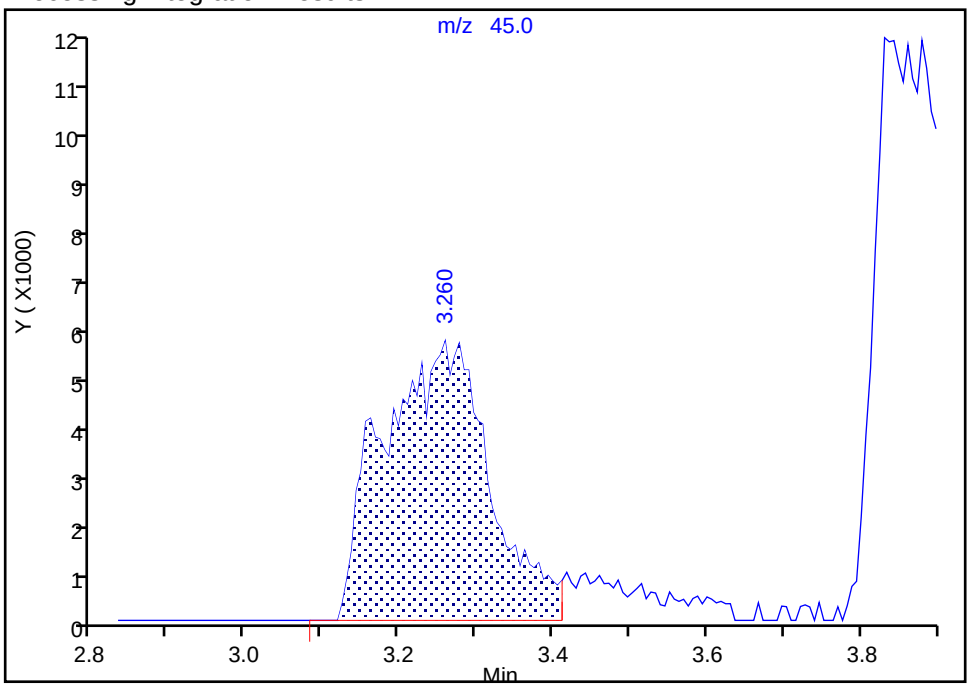
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Lims ID:	IC STD20				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Ethanol, CAS: 64-17-5

Signal: 1

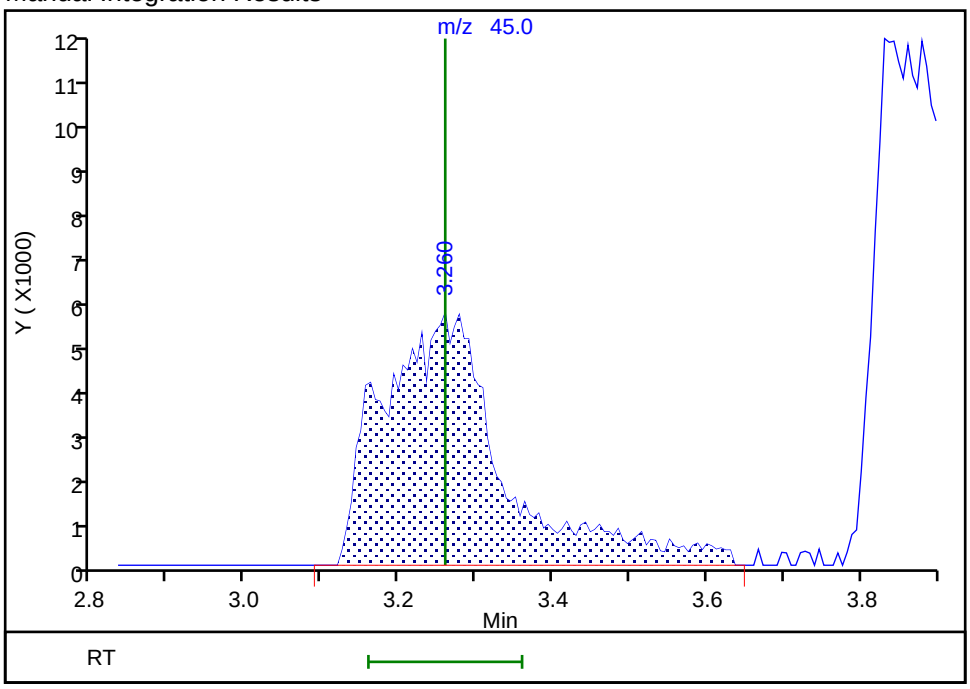
Processing Integration Results

RT: 3.26
Area: 53373
Amount: 8.051044
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 60726
Amount: 984.1006
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:00:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

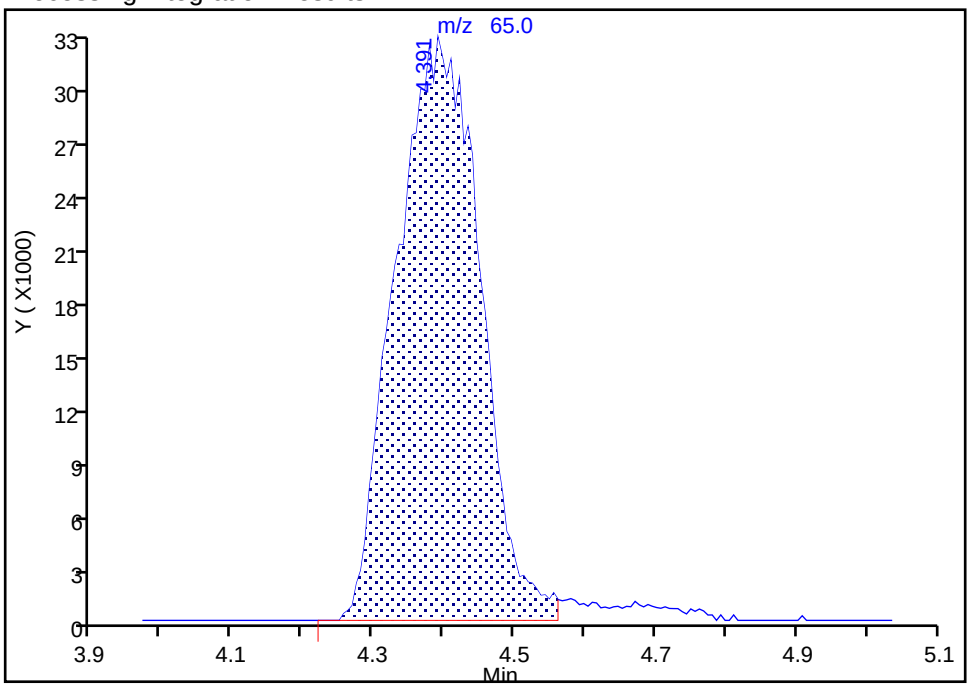
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Injection Date: 08-Mar-2021 16:57:30 Instrument ID: 7159
Lims ID: IC STD20
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

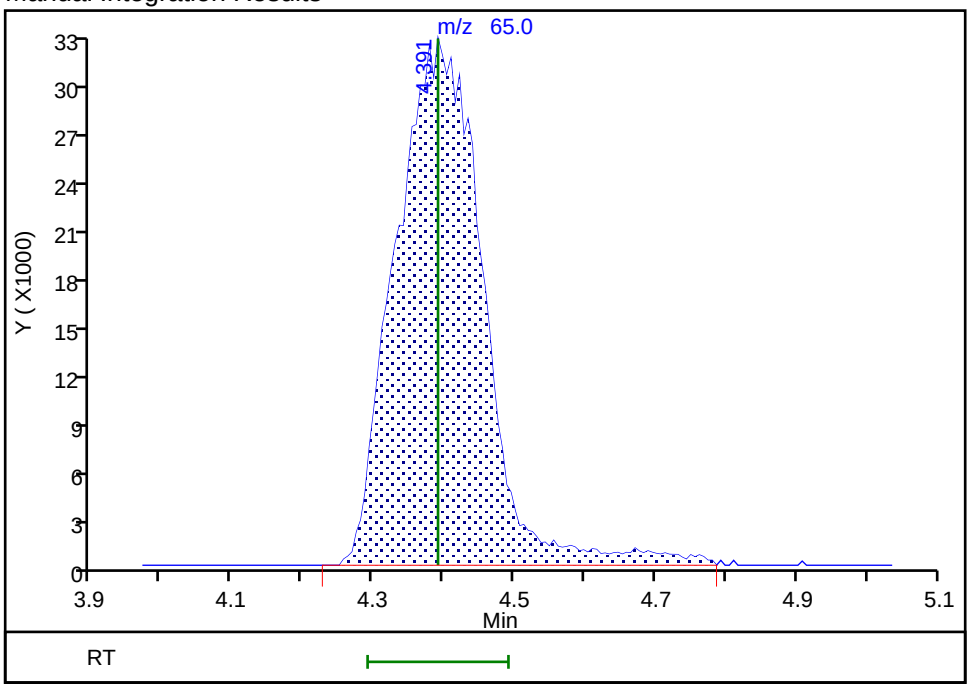
Processing Integration Results

RT: 4.39
Area: 270015
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 279910
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:01:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X07.D
Lims ID: IC STD10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Mar-2021 17:19:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-007
Misc. Info.: IC STD10
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:52:19 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 09-Mar-2021 00:02:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.025	2.006	0.019	99	84501	10.0	10.6	
6 Chloromethane	50	2.219	2.219	0.000	99	72753	10.0	10.2	
8 Vinyl chloride	62	2.347	2.341	0.006	83	72108	10.0	10.2	
9 Butadiene	39	2.347	2.341	0.006	93	62888	10.0	9.79	
10 Bromomethane	94	2.688	2.676	0.012	91	58452	10.0	10.4	
11 Chloroethane	64	2.773	2.773	0.000	99	47299	10.0	10.2	
12 Dichlorofluoromethane	67	3.022	3.016	0.006	97	110731	10.0	9.93	
13 Trichlorofluoromethane	101	3.089	3.083	0.006	97	125309	10.0	10.2	
15 Pentane	43	3.150	3.144	0.006	94	100161	10.0	9.77	
16 Ethanol	45	3.254	3.260	-0.006	22	32443	500.0	527.9	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.442	3.436	0.006	88	72250	10.0	10.0	
18 Acrolein	56	3.546	3.533	0.013	99	206644	100.0	96.7	
20 1,1-Dichloroethene	96	3.692	3.679	0.013	98	57893	10.0	10.0	
22 112TCTFE	101	3.716	3.710	0.006	91	68357	10.0	10.3	
21 Acetone	58	3.728	3.728	0.000	72	17525	20.0	20.5	
23 Isopropyl alcohol	45	3.886	3.832	0.054	95	52162	100.0	96.2	
24 Iodomethane	142	3.898	3.892	0.006	98	119346	10.0	10.1	
25 Carbon disulfide	76	4.014	4.002	0.012	100	171440	10.0	9.92	
26 Methyl acetate	43	4.160	4.154	0.006	97	63095	10.0	9.84	
27 3-Chloro-1-propene	41	4.190	4.178	0.012	88	99388	10.0	9.95	
28 Methylene Chloride	84	4.385	4.379	0.006	91	63648	10.0	9.86	
* 29 t-Butyl alcohol-d10 (IS)	65	4.391	4.391	0.000	0	278761	250.0	250.0	M
31 2-Methyl-2-propanol	59	4.519	4.543	-0.024	99	121287	100.0	99.1	
32 Acrylonitrile	53	4.738	4.720	0.018	99	35255	10.0	11.1	
33 Methyl tert-butyl ether	73	4.799	4.793	0.006	95	207393	10.0	10.1	
34 trans-1,2-Dichloroethene	96	4.817	4.811	0.006	98	67620	10.0	10.1	
36 Hexane	57	5.231	5.225	0.006	94	97990	10.0	10.1	
37 1,1-Dichloroethane	63	5.474	5.462	0.012	97	111916	10.0	10.0	
39 Isopropyl ether	45	5.523	5.517	0.006	91	197755	10.0	10.0	
40 2-Chloro-1,3-butadiene	53	5.584	5.571	0.013	93	105936	10.0	9.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.064	6.058	0.006	97	203131	10.0	10.2	
S 42 1,2-Dichloroethene, Total	100				0			20.2	
43 2-Butanone (MEK)	43	6.259	6.259	0.000	99	94627	20.0	21.2	
44 cis-1,2-Dichloroethene	96	6.308	6.301	0.007	82	76209	10.0	10.1	
45 2,2-Dichloropropane	77	6.314	6.320	-0.006	74	112452	10.0	9.96	
46 Propionitrile	54	6.344	6.344	0.000	98	131735	100.0	96.1	
47 Methacrylonitrile	67	6.569	6.557	0.012	90	179960	50.0	50.5	
48 Chlorobromomethane	128	6.642	6.642	0.000	88	43296	10.0	10.4	
49 Tetrahydrofuran	71	6.636	6.642	-0.006	82	27269	20.0	19.7	
50 Chloroform	83	6.788	6.782	0.006	94	120771	10.0	9.91	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	297038	50.0	50.3	
52 1,1,1-Trichloroethane	97	7.019	7.013	0.006	98	118135	10.0	9.92	
54 Cyclohexane	56	7.129	7.123	0.006	90	116073	10.0	10.0	
56 1,1-Dichloropropene	75	7.232	7.226	0.006	91	92622	10.0	9.84	
55 Carbon tetrachloride	117	7.238	7.232	0.006	95	104595	10.0	9.80	
58 Isobutyl alcohol	41	7.360	7.354	0.006	91	96058	250.0	250.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.457	0.006	98	71437	50.0	49.5	
60 Benzene	78	7.494	7.494	0.000	96	266873	10.0	9.93	
61 1,2-Dichloroethane	62	7.567	7.567	0.000	98	97575	10.0	9.98	
62 Tert-amyl methyl ether	73	7.682	7.676	0.006	98	206367	10.0	10.1	
* 64 Fluorobenzene (IS)	96	7.901	7.895	0.006	99	1128973	50.0	50.0	
65 n-Heptane	43	7.914	7.914	0.000	90	96499	10.0	9.92	
66 n-Butanol	56	8.242	8.242	0.000	91	138654	500.0	467.3	
67 Trichloroethene	95	8.382	8.382	0.000	96	72828	10.0	9.89	
68 Methylcyclohexane	83	8.698	8.698	0.000	93	138509	10.0	10.0	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	70	65671	10.0	10.1	
69 2-ethoxy-2-methyl butane	87	8.723	8.723	0.000	92	111225	10.0	9.97	
71 Methyl methacrylate	69	8.796	8.790	0.006	89	60419	10.0	9.98	
72 1,4-Dioxane	88	8.814	8.802	0.012	87	13731	250.0	230.6	M
74 Dibromomethane	93	8.832	8.832	0.000	93	44369	10.0	9.76	
75 Dichlorobromomethane	83	9.063	9.063	0.000	98	89945	10.0	9.83	
77 2-Nitropropane	41	9.325	9.325	0.000	99	58918	20.0	18.2	
78 2-Chloroethyl vinyl ether	63	9.416	9.410	0.006	93	47290	10.0	9.83	
79 cis-1,3-Dichloropropene	75	9.599	9.599	0.000	94	107024	10.0	9.85	
80 4-Methyl-2-pentanone (MIBK)	43	9.763	9.757	0.006	96	202114	20.0	21.6	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1158321	50.0	49.8	
82 Toluene	92	9.982	9.976	0.006	98	182036	10.0	9.94	
S 83 1,3-Dichloropropene, Total	100				0			19.4	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	95	96724	10.0	9.53	
85 Ethyl methacrylate	69	10.280	10.280	0.000	89	101400	10.0	9.83	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	63393	10.0	9.70	
87 Tetrachloroethene	166	10.523	10.523	0.000	98	92741	10.0	9.85	
88 1,3-Dichloropropane	76	10.590	10.590	0.000	93	103759	10.0	9.86	
89 2-Hexanone	43	10.633	10.633	0.000	97	151430	20.0	21.3	
90 Chlorodibromomethane	129	10.809	10.809	0.000	89	75526	10.0	9.62	
91 Ethylene Dibromide	107	10.919	10.919	0.000	99	69072	10.0	9.56	
S 92 Xylenes, Total	106				0			29.9	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	86	935026	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	98	107141	10.0	9.69	
95 Chlorobenzene	112	11.369	11.375	-0.006	96	213849	10.0	9.97	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	93	77601	10.0	9.71	
97 Ethylbenzene	91	11.454	11.454	0.000	98	367479	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	99	296555	20.0	20.0	
99 o-Xylene	106	11.898	11.898	0.000	95	145284	10.0	9.93	
100 Styrene	104	11.917	11.911	0.006	95	232986	10.0	9.81	
101 Bromoform	173	12.075	12.075	0.000	97	55947	10.0	9.37	
102 Isopropylbenzene	105	12.196	12.196	0.000	95	392519	10.0	10.0	
103 Cyclohexanone	55	12.276	12.269	0.007	92	56861	250.0	230.2	
$ 104 4-Bromofluorobenzene (Surr)	95	12.342	12.342	0.000	94	460988	50.0	49.8	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	96	97895	10.0	9.93	
106 Bromobenzene	156	12.464	12.464	0.000	95	99411	10.0	9.74	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	96	174481	50.0	49.8	
108 1,2,3-Trichloropropane	110	12.488	12.488	0.000	86	34669	10.0	9.91	
109 N-Propylbenzene	91	12.525	12.525	0.000	98	444013	10.0	10.1	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	95496	10.0	9.86	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	95	331349	10.0	10.0	
112 4-Chlorotoluene	126	12.695	12.695	0.000	97	98730	10.0	10.0	
113 tert-Butylbenzene	134	12.902	12.902	0.000	92	71232	10.0	9.38	
114 Pentachloroethane	167	12.939	12.939	0.000	78	61212	10.0	9.75	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	338537	10.0	9.99	
116 sec-Butylbenzene	105	13.066	13.066	0.000	94	414245	10.0	10.1	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	98	189620	10.0	9.83	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	97	368997	10.0	9.98	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	0.000	94	556898	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	95	191660	10.0	9.73	
121 1,2,3-Trimethylbenzene	105	13.249	13.249	0.000	98	344106	10.0	10.2	
122 Benzyl chloride	91	13.316	13.316	0.000	98	217600	10.0	9.71	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	96	224463	10.0	10.1	
124 p-Diethylbenzene	119	13.444	13.444	0.000	96	232454	10.0	9.97	
125 n-Butylbenzene	92	13.468	13.468	0.000	97	169867	10.0	9.86	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	98	182421	10.0	9.90	
127 o-diethylbenzene	119	13.517	13.517	0.000	95	182512	10.0	10.0	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	88	25796	10.0	10.0	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	97	133130	10.0	9.87	
131 1,2,4-Trichlorobenzene	180	14.599	14.599	0.000	94	116591	10.0	9.85	
132 Hexachlorobutadiene	225	14.679	14.679	0.000	98	47947	10.0	9.60	
133 Naphthalene	128	14.782	14.782	0.000	97	387293	10.0	10.1	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	108874	10.0	9.77	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	92	215798	10.0	9.97	
S 144 Total Diethylbenzene	1				0			30.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	8.00	Units: uL	
MSV_V_ETOH_00011	Amount Added:	8.00	Units: uL	
MSV_V_2CEVE_00144	Amount Added:	2.00	Units: uL	
MSV_V_VOA3_00072	Amount Added:	0.80	Units: uL	
MSV_V_VOA2_00074	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00078	Amount Added:	2.00	Units: uL	
MSV_DCFM_00036	Amount Added:	1.00	Units: uL	
MSV_V_VOA1_00132	Amount Added:	2.00	Units: uL	
MSV_V_Gas_00219	Amount Added:	1.00	Units: uL	
MSV_HP11_ISSS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Mar-2021 09:52:20 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X07.D

Injection Date: 08-Mar-2021 17:19:30 Instrument ID: 7159 Operator ID: kas02648

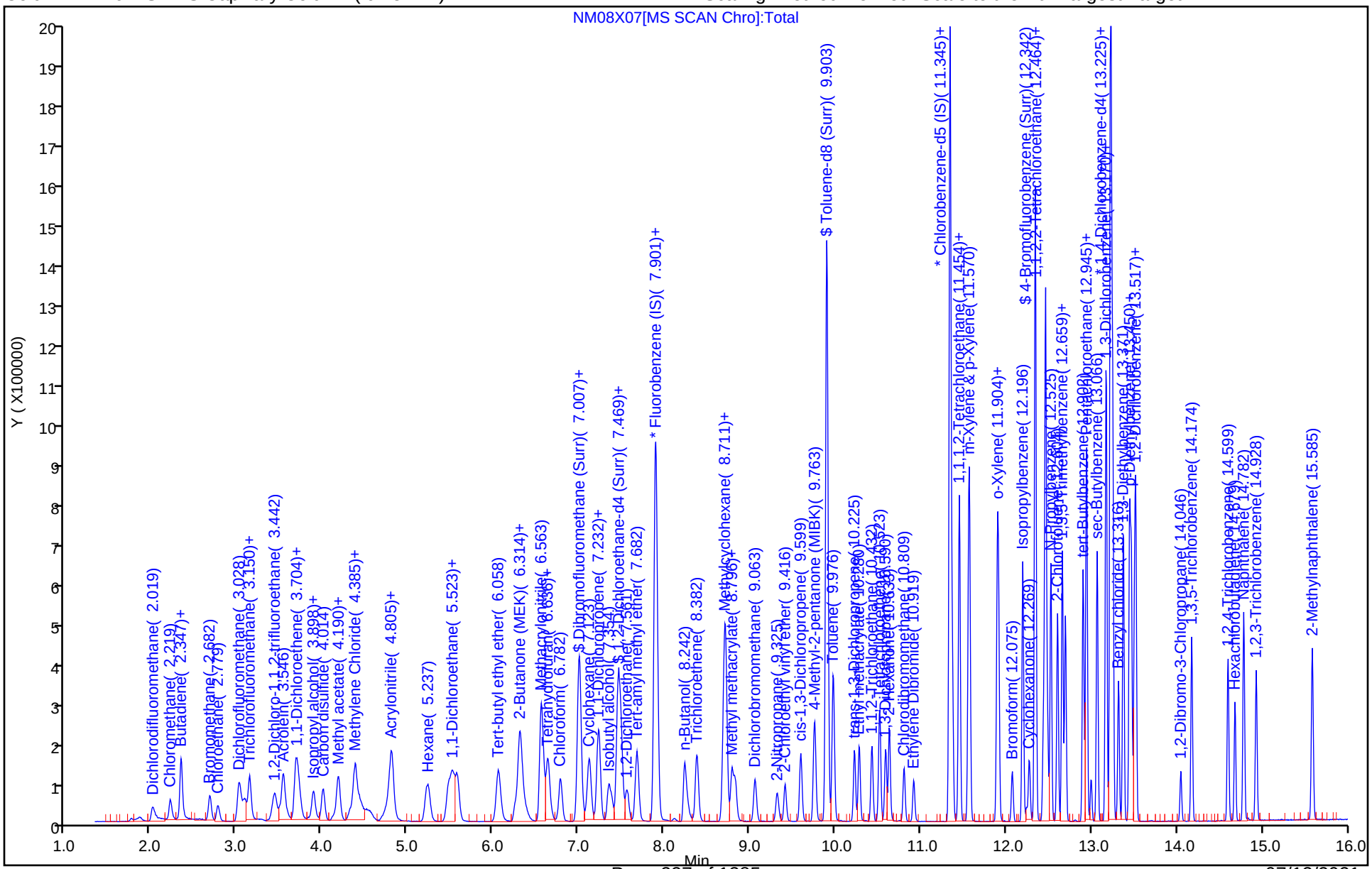
Lims ID: IC STD10 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

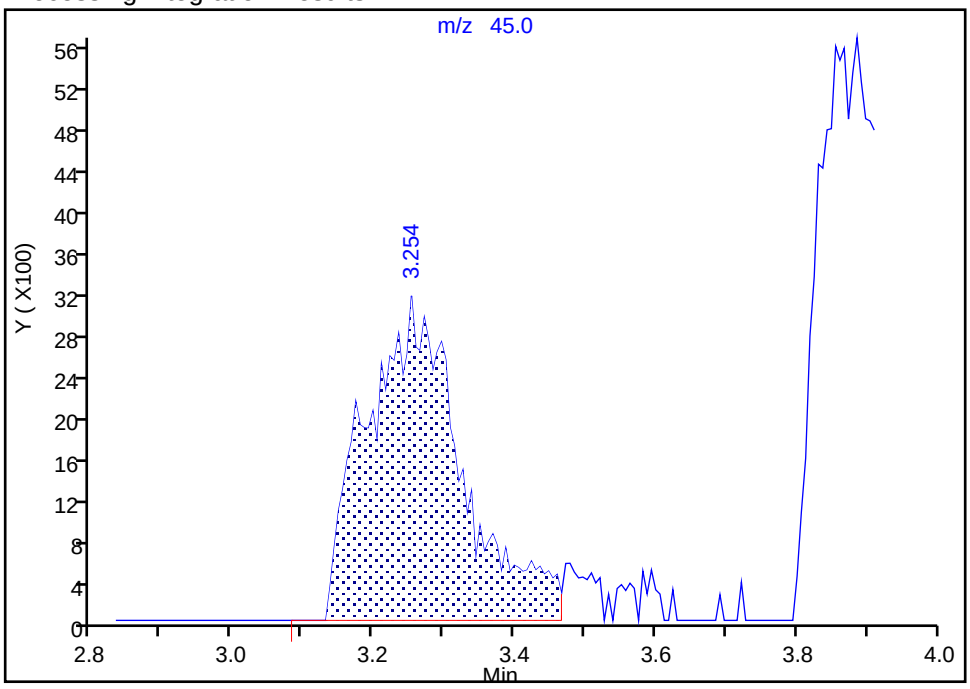
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Injection Date:	08-Mar-2021 17:19:30	Instrument ID:	7159		
Lims ID:	IC STD10				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Ethanol, CAS: 64-17-5

Signal: 1

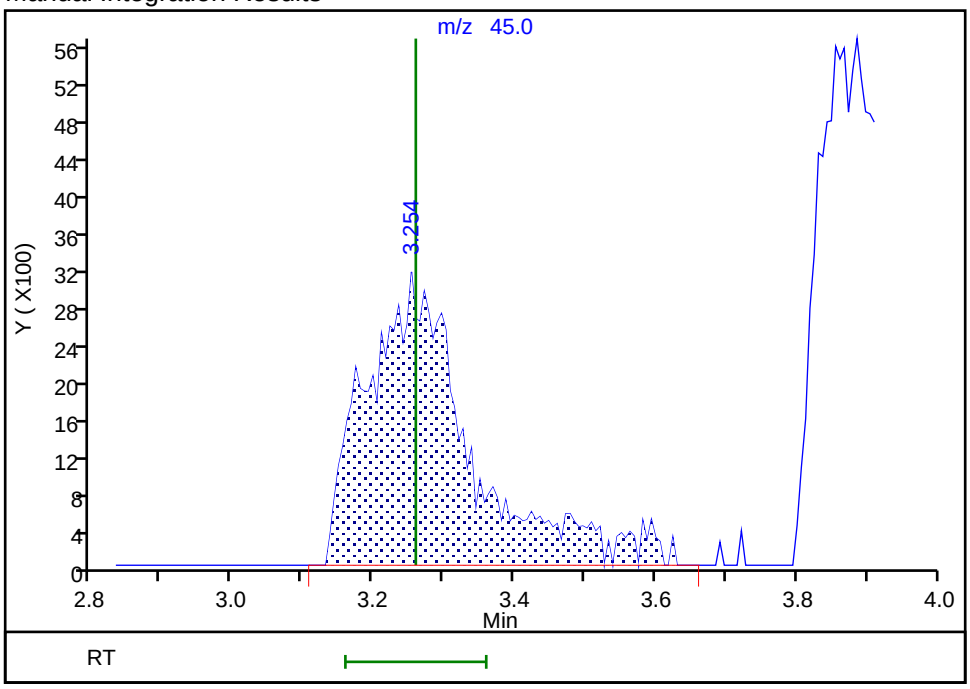
Processing Integration Results

RT: 3.25
Area: 29507
Amount: 4.487783
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 32443
Amount: 527.9250
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:01:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

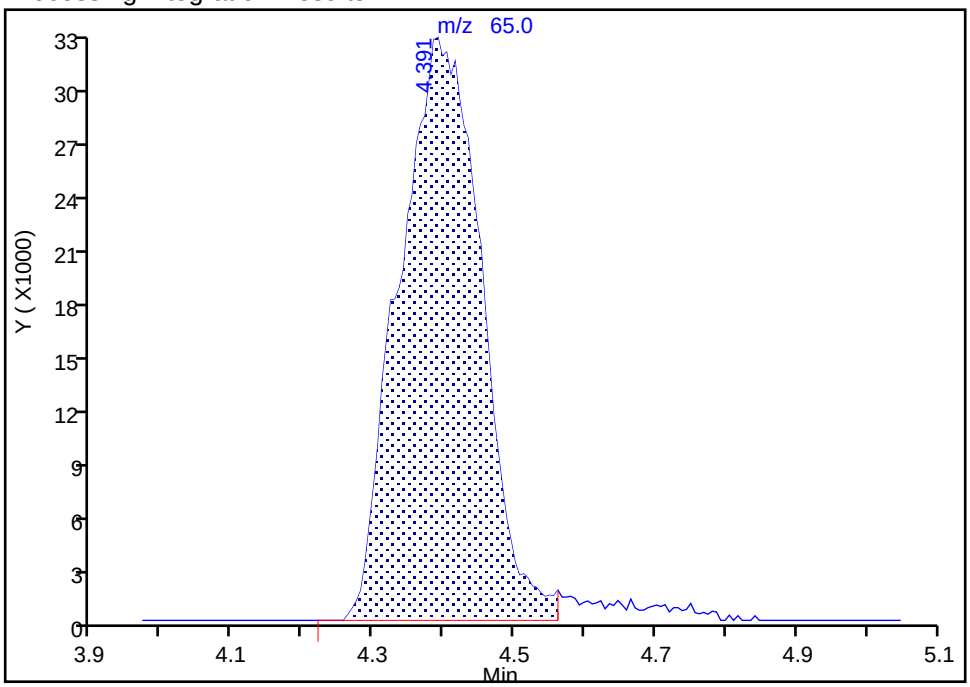
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X07.D
Injection Date: 08-Mar-2021 17:19:30 Instrument ID: 7159
Lims ID: IC STD10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

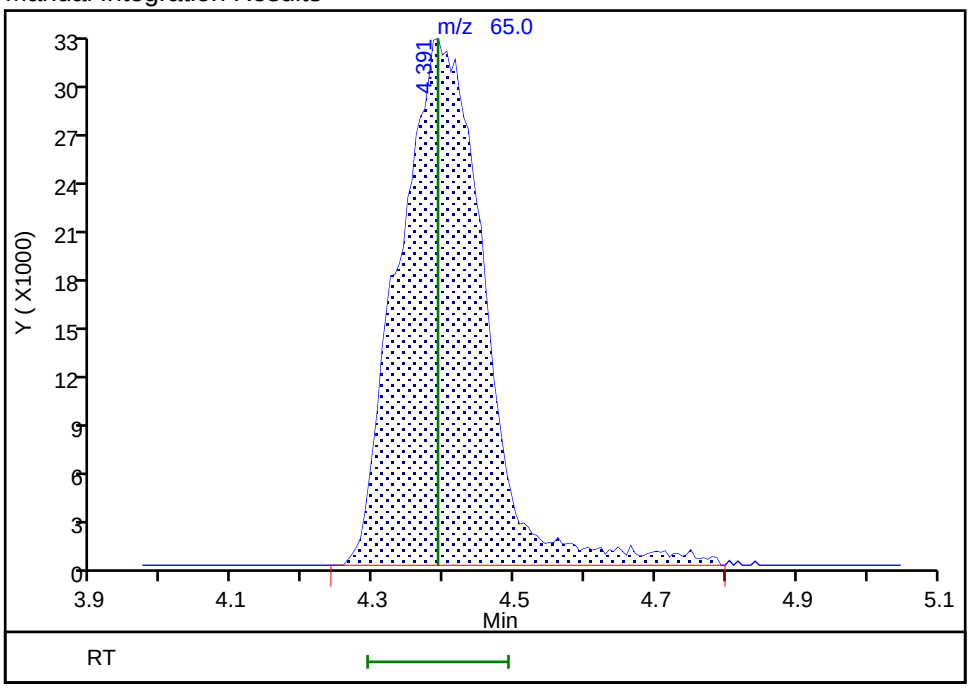
Processing Integration Results

RT: 4.39
Area: 267807
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 278761
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:02:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

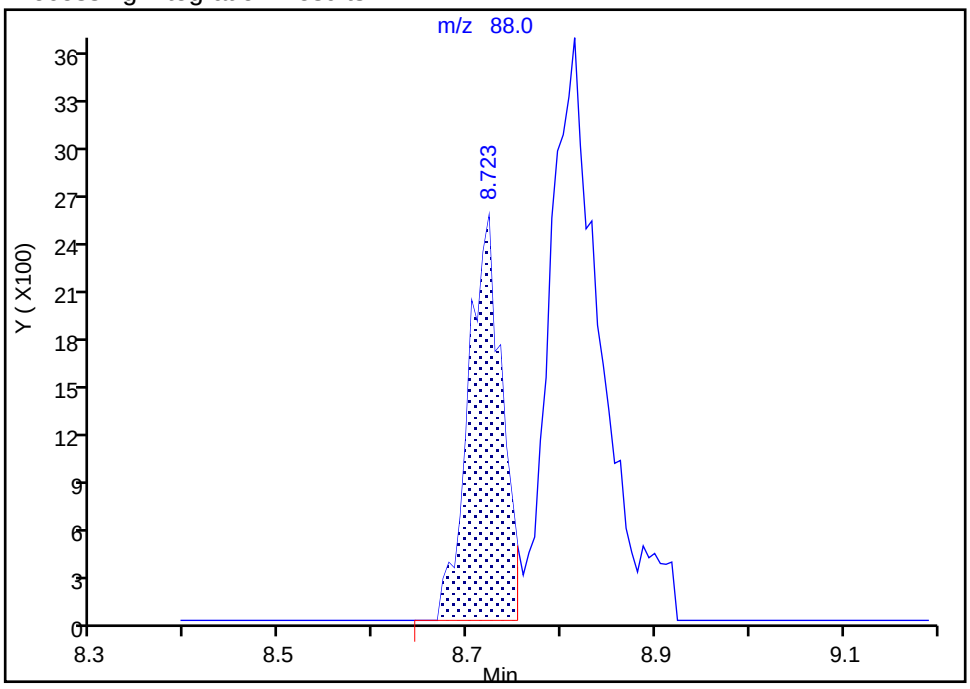
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Injection Date: 08-Mar-2021 17:19:30 Instrument ID: 7159
Lims ID: IC STD10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

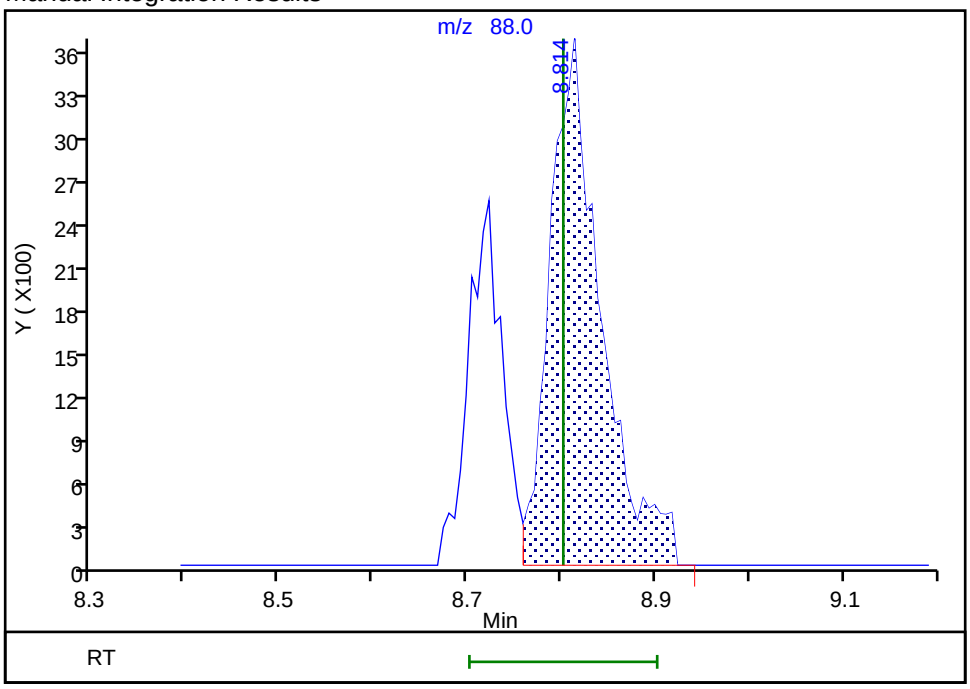
Processing Integration Results

RT: 8.72
Area: 6283
Amount: 112.9247
Amount Units: ug/l



Manual Integration Results

RT: 8.81
Area: 13731
Amount: 230.6148
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:02:26
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X08.D
Lims ID: IC STD4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Mar-2021 17:41:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-008
Misc. Info.: IC STD4
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:52:30 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 09-Mar-2021 00:03:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.012	2.006	0.006	99	31655	4.00	3.98	
6 Chloromethane	50	2.219	2.219	0.000	99	30540	4.00	4.30	
8 Vinyl chloride	62	2.347	2.341	0.006	90	28847	4.00	4.11	
9 Butadiene	39	2.347	2.341	0.006	93	29260	4.00	4.57	
10 Bromomethane	94	2.682	2.676	0.006	94	22490	4.00	4.00	
11 Chloroethane	64	2.773	2.773	0.000	99	19276	4.00	4.18	
12 Dichlorofluoromethane	67	3.016	3.016	0.000	98	47452	4.00	4.27	
13 Trichlorofluoromethane	101	3.089	3.083	0.006	96	49784	4.00	4.07	
15 Pentane	43	3.144	3.144	0.000	93	40520	4.00	3.97	
16 Ethanol	45	3.241	3.260	-0.019	76	11411	250.0	214.2	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.436	0.000	90	29342	4.00	4.08	
18 Acrolein	56	3.539	3.533	0.006	98	72919	40.0	39.3	
20 1,1-Dichloroethene	96	3.692	3.679	0.013	98	23149	4.00	4.03	
22 112TCTFE	101	3.710	3.710	0.000	92	26899	4.00	4.06	
21 Acetone	58	3.758	3.728	0.030	95	5739	8.00	7.75	
23 Isopropyl alcohol	45	3.856	3.832	0.024	98	35455	80.0	75.4	
24 Iodomethane	142	3.892	3.892	0.000	99	47896	4.00	4.06	
25 Carbon disulfide	76	4.002	4.002	0.000	100	70173	4.00	4.08	
26 Methyl acetate	43	4.160	4.154	0.006	97	26538	4.00	4.15	
27 3-Chloro-1-propene	41	4.184	4.178	0.006	88	41737	4.00	4.19	
28 Methylene Chloride	84	4.379	4.379	0.000	63	26462	4.00	4.11	
* 29 t-Butyl alcohol-d10 (IS)	65	4.385	4.391	-0.006	0	241691	250.0	250.0	
31 2-Methyl-2-propanol	59	4.519	4.543	-0.024	99	81451	80.0	76.8	
32 Acrylonitrile	53	4.738	4.720	0.018	98	12243	4.00	3.87	
33 Methyl tert-butyl ether	73	4.781	4.793	-0.012	95	82942	4.00	4.07	
34 trans-1,2-Dichloroethene	96	4.805	4.811	-0.006	99	27602	4.00	4.14	
36 Hexane	57	5.231	5.225	0.006	92	38302	4.00	3.94	M
37 1,1-Dichloroethane	63	5.468	5.462	0.006	92	44864	4.00	4.04	
39 Isopropyl ether	45	5.529	5.517	0.012	91	79863	4.00	4.07	
40 2-Chloro-1,3-butadiene	53	5.584	5.571	0.013	92	43344	4.00	4.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.052	6.058	-0.006	96	81898	4.00	4.12	
S 42 1,2-Dichloroethene, Total	100				0			8.26	
43 2-Butanone (MEK)	43	6.259	6.259	0.000	98	34432	8.00	7.74	
44 cis-1,2-Dichloroethene	96	6.307	6.301	0.006	82	31093	4.00	4.12	
45 2,2-Dichloropropane	77	6.320	6.320	0.000	80	45783	4.00	4.07	
46 Propionitrile	54	6.344	6.344	0.000	99	92739	80.0	78.0	
47 Methacrylonitrile	67	6.557	6.557	0.000	91	139461	40.0	39.3	
48 Chlorobromomethane	128	6.642	6.642	0.000	80	16828	4.00	4.07	
49 Tetrahydrofuran	71	6.642	6.642	0.000	70	9335	8.00	7.77	
50 Chloroform	83	6.794	6.782	0.012	94	49380	4.00	4.07	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	291331	50.0	49.5	
52 1,1,1-Trichloroethane	97	7.019	7.013	0.006	96	48032	4.00	4.05	
54 Cyclohexane	56	7.129	7.123	0.006	91	47668	4.00	4.14	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	93	37554	4.00	4.00	
55 Carbon tetrachloride	117	7.244	7.232	0.012	93	42071	4.00	3.96	
58 Isobutyl alcohol	41	7.348	7.354	-0.006	93	65053	200.0	195.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.457	0.006	97	70153	50.0	48.8	
60 Benzene	78	7.494	7.494	0.000	95	109764	4.00	4.10	
61 1,2-Dichloroethane	62	7.561	7.567	-0.006	98	38793	4.00	3.98	
62 Tert-amyl methyl ether	73	7.682	7.676	0.006	98	82747	4.00	4.07	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	1125115	50.0	50.0	
65 n-Heptane	43	7.907	7.914	-0.007	39	39137	4.00	4.04	
66 n-Butanol	56	8.242	8.242	0.000	90	94500	400.0	367.3	
67 Trichloroethene	95	8.382	8.382	0.000	96	30030	4.00	4.09	
68 Methylcyclohexane	83	8.692	8.698	-0.006	92	55302	4.00	4.00	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	70	26039	4.00	4.00	
69 2-ethoxy-2-methyl butane	87	8.723	8.723	0.000	92	43870	4.00	3.95	
71 Methyl methacrylate	69	8.796	8.790	0.006	90	23154	4.00	3.84	
72 1,4-Dioxane	88	8.808	8.802	0.006	53	10366	200.0	200.8	
74 Dibromomethane	93	8.832	8.832	0.000	92	17978	4.00	3.97	
75 Dichlorobromomethane	83	9.063	9.063	0.000	98	35663	4.00	3.91	
77 2-Nitropropane	41	9.325	9.325	0.000	97	20995	8.00	7.46	
78 2-Chloroethyl vinyl ether	63	9.416	9.410	0.006	96	18653	4.00	3.89	
79 cis-1,3-Dichloropropene	75	9.599	9.599	0.000	93	42066	4.00	3.89	
80 4-Methyl-2-pentanone (MIBK)	43	9.763	9.757	0.006	96	69436	8.00	7.43	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1144892	50.0	50.0	
82 Toluene	92	9.976	9.976	0.000	98	74226	4.00	4.12	
S 83 1,3-Dichloropropene, Total	100				0			7.75	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	95	38625	4.00	3.87	
85 Ethyl methacrylate	69	10.286	10.280	0.006	88	40145	4.00	3.95	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	25291	4.00	3.93	
87 Tetrachloroethene	166	10.523	10.523	0.000	98	37942	4.00	4.10	
88 1,3-Dichloropropane	76	10.590	10.590	0.000	94	41490	4.00	4.01	
89 2-Hexanone	43	10.633	10.633	0.000	96	51901	8.00	7.42	
90 Chlorodibromomethane	129	10.809	10.809	0.000	89	29240	4.00	3.79	
91 Ethylene Dibromide	107	10.919	10.919	0.000	96	28431	4.00	4.00	
S 92 Xylenes, Total	106				0			12.4	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	86	920242	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	92	43270	4.00	3.98	
95 Chlorobenzene	112	11.369	11.375	-0.006	97	85448	4.00	4.05	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	93	30551	4.00	3.89	
97 Ethylbenzene	91	11.454	11.454	0.000	98	148500	4.00	4.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	99	121217	8.00	8.31	
99 o-Xylene	106	11.898	11.898	0.000	96	58706	4.00	4.08	
100 Styrene	104	11.917	11.911	0.006	94	91525	4.00	3.92	
101 Bromoform	173	12.075	12.075	0.000	96	21311	4.00	3.63	
102 Isopropylbenzene	105	12.196	12.196	0.000	96	159868	4.00	4.14	
103 Cyclohexanone	55	12.275	12.269	0.006	93	42045	200.0	196.4	
$ 104 4-Bromofluorobenzene (Surr)	95	12.342	12.342	0.000	94	454557	50.0	49.8	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	95	39005	4.00	4.05	
106 Bromobenzene	156	12.464	12.464	0.000	65	40255	4.00	4.04	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	95	130888	40.0	38.3	
108 1,2,3-Trichloropropane	110	12.488	12.488	0.000	87	13789	4.00	4.03	
109 N-Propylbenzene	91	12.525	12.525	0.000	98	181376	4.00	4.21	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	39547	4.00	4.18	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	94	131791	4.00	4.08	
112 4-Chlorotoluene	126	12.695	12.695	0.000	98	38873	4.00	4.04	
113 tert-Butylbenzene	134	12.902	12.902	0.000	93	28686	4.00	3.87	
114 Pentachloroethane	167	12.939	12.939	0.000	77	23473	4.00	3.83	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	137522	4.00	4.15	
116 sec-Butylbenzene	105	13.066	13.066	0.000	94	163396	4.00	4.07	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	98	78095	4.00	4.14	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	96	146033	4.00	4.04	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	0.000	94	544110	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	94	79478	4.00	4.13	
121 1,2,3-Trimethylbenzene	105	13.249	13.249	0.000	97	134538	4.00	4.08	
122 Benzyl chloride	91	13.316	13.316	0.000	99	81326	4.00	3.71	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	94	87982	4.00	4.07	
124 p-Diethylbenzene	119	13.450	13.444	0.006	96	94101	4.00	4.13	
125 n-Butylbenzene	92	13.468	13.468	0.000	97	68865	4.00	4.09	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	98	72049	4.00	4.00	
127 o-diethylbenzene	119	13.517	13.517	0.000	95	71251	4.00	4.00	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	78	9760	4.00	3.88	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	98	52879	4.00	4.01	
131 1,2,4-Trichlorobenzene	180	14.599	14.599	0.000	95	46127	4.00	3.99	
132 Hexachlorobutadiene	225	14.678	14.679	-0.001	97	18682	4.00	3.83	
133 Naphthalene	128	14.782	14.782	0.000	96	148977	4.00	3.98	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	43401	4.00	3.98	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	90	78821	4.00	3.73	
S 144 Total Diethylbenzene	1				0			12.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	32.00	Units: uL	
MSV_V_2CEVE_00144	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00072	Amount Added:	1.60	Units: uL	
MSV_V_VOA2_00074	Amount Added:	12.00	Units: uL	
MSV_V_VOA6_00078	Amount Added:	4.00	Units: uL	
MSV_V_ETOH_00011	Amount Added:	20.00	Units: uL	
MSV_DCFM_00036	Amount Added:	2.00	Units: uL	
MSV_V_VOA1_00132	Amount Added:	4.00	Units: uL	
MSV_V_Gas_00219	Amount Added:	2.00	Units: uL	
MSV_HP11_ISSS_00005	Amount Added:	5.00	Units: uL	Run Reagent

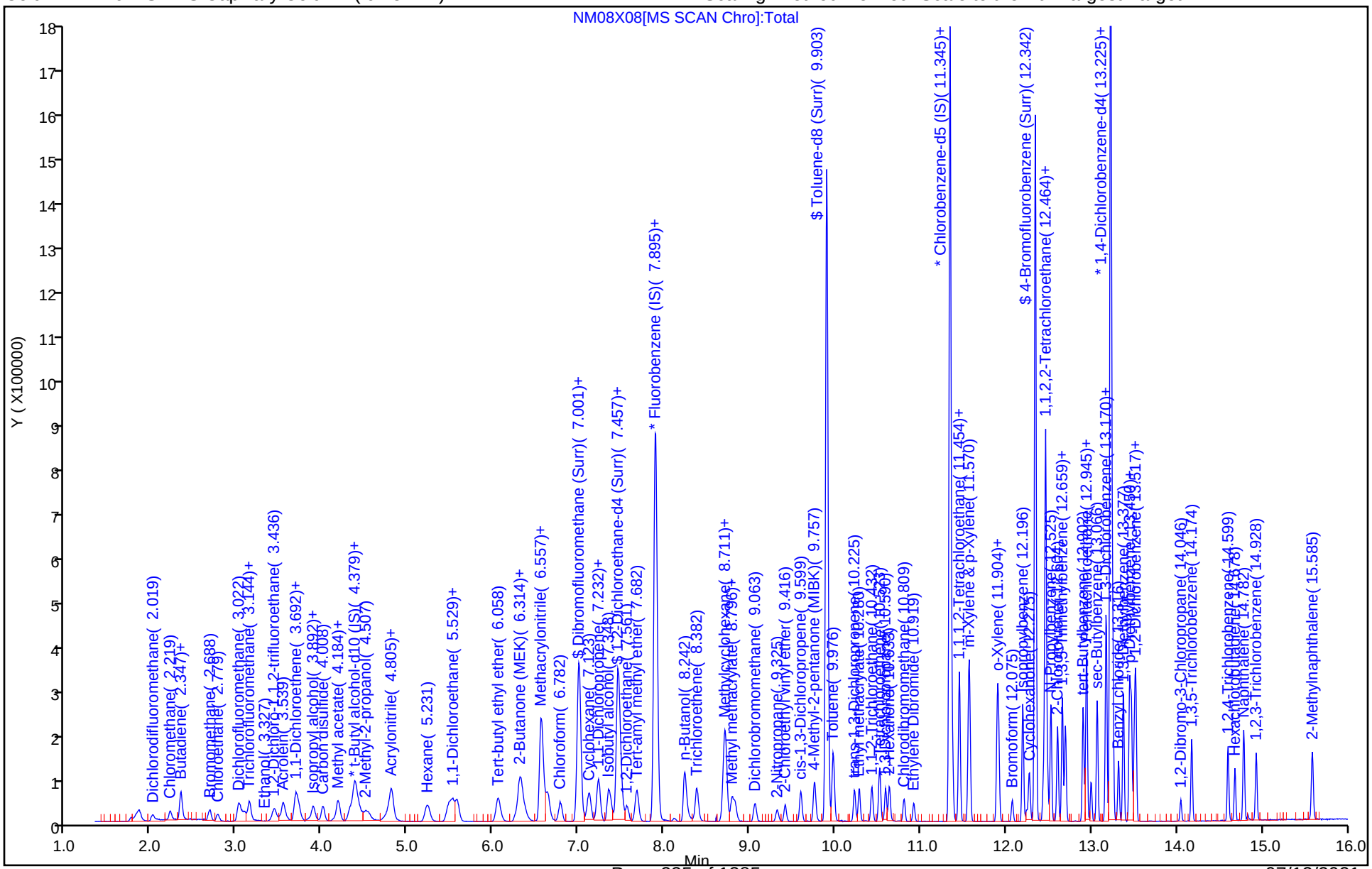
Report Date: 09-Mar-2021 09:52:31 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X08.D

Injection Date:	08-Mar-2021 17:41:30	Instrument ID:	7159	Operator ID:	kas02648
Lims ID:	IC STD4			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

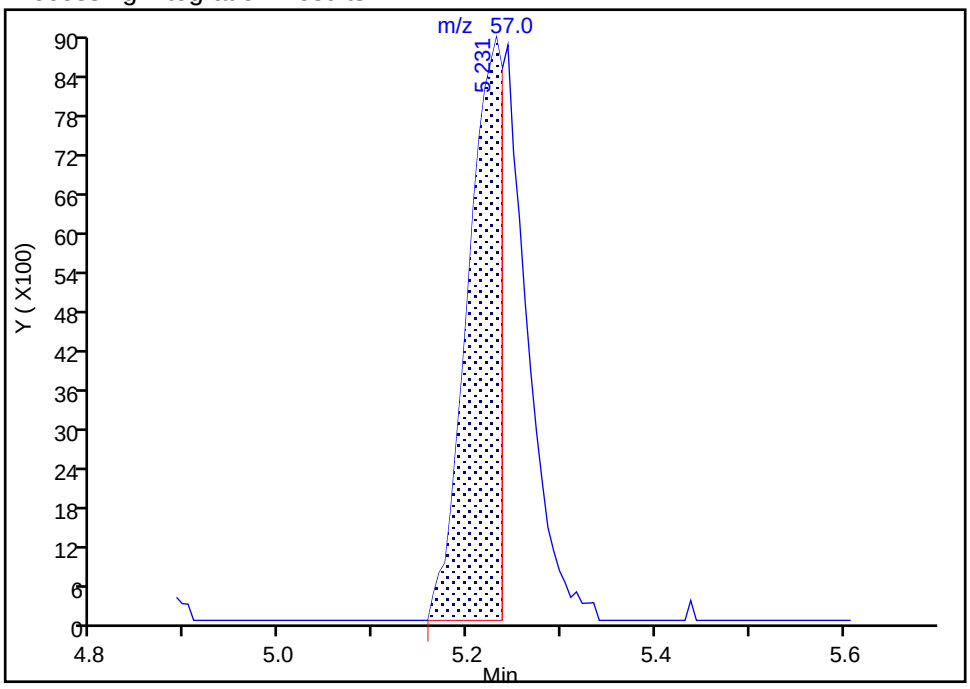
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Injection Date: 08-Mar-2021 17:41:30 Instrument ID: 7159
Lims ID: IC STD4
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

36 Hexane, CAS: 110-54-3

Signal: 1

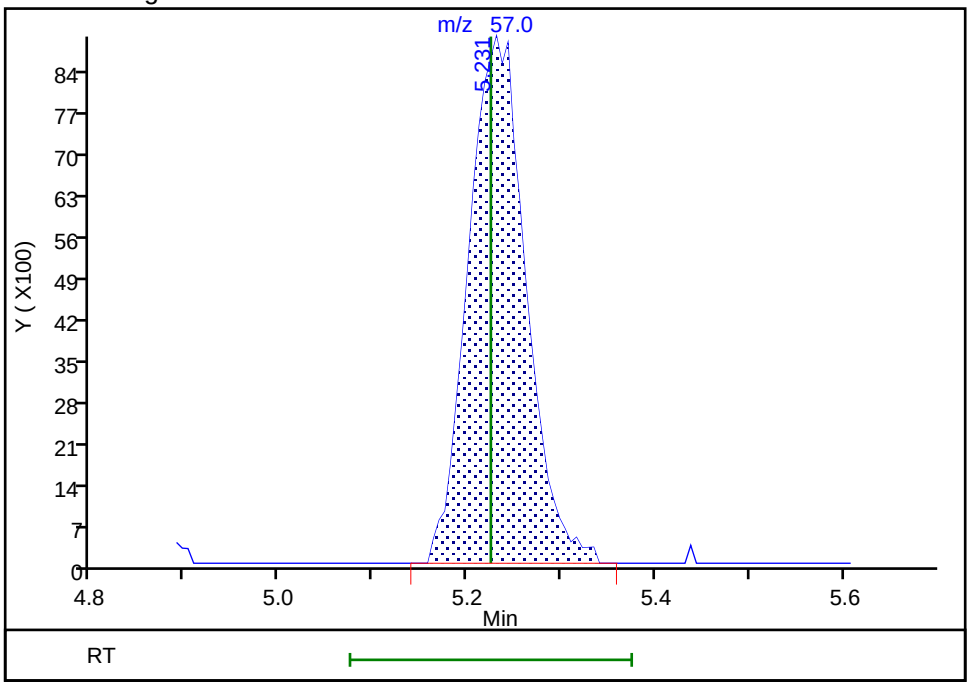
Processing Integration Results

RT: 5.23
Area: 23159
Amount: 0.030785
Amount Units: ug/l



Manual Integration Results

RT: 5.23
Area: 38302
Amount: 3.942099
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:03:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Lims ID: IC STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Mar-2021 18:03:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-009
Misc. Info.: IC STD1
Operator ID: kas02648 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub5

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 09:52:39 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: campbellme Date: 09-Mar-2021 00:10:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.019	2.006	0.013	92	5647	1.00	0.7174	
6 Chloromethane	50	2.231	2.219	0.012	97	6942	1.00	0.9866	
8 Vinyl chloride	62	2.353	2.341	0.012	85	5916	1.00	0.8510	
9 Butadiene	39	2.353	2.341	0.012	93	6539	1.00	1.03	
10 Bromomethane	94	2.688	2.676	0.012	90	5311	1.00	0.9541	a
11 Chloroethane	64	2.791	2.773	0.018	94	4283	1.00	0.9375	
12 Dichlorofluoromethane	67	3.035	3.016	0.019	96	10723	1.00	0.9740	
13 Trichlorofluoromethane	101	3.101	3.083	0.018	76	9998	1.00	0.8248	
15 Pentane	43	3.162	3.144	0.018	92	9294	1.00	0.9187	M
16 Ethanol	45	3.229	3.260	-0.031	1	2688	62.5	50.8	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.436	0.000	84	6690	1.00	0.9400	
18 Acrolein	56	3.564	3.533	0.031	98	18535	10.0	10.1	
20 1,1-Dichloroethene	96	3.692	3.679	0.013	97	5255	1.00	0.9239	M
22 112TCTFE	101	3.728	3.710	0.018	67	5128	1.00	0.7814	
21 Acetone	58	3.758	3.728	0.030	0	1208	2.00	1.64	M
23 Isopropyl alcohol	45	3.886	3.832	0.054	26	9187	20.0	19.7	
24 Iodomethane	142	3.898	3.892	0.006	96	10918	1.00	0.9335	
25 Carbon disulfide	76	4.020	4.002	0.018	99	15500	1.00	0.9088	
26 Methyl acetate	43	4.178	4.154	0.024	37	7292	1.00	1.15	
27 3-Chloro-1-propene	41	4.196	4.178	0.018	87	9785	1.00	0.99	
28 Methylene Chloride	84	4.397	4.379	0.018	36	6293	1.00	0.9874	
* 29 t-Butyl alcohol-d10 (IS)	65	4.397	4.391	0.006	0	240084	250.0	250.0	M
31 2-Methyl-2-propanol	59	4.531	4.543	-0.012	97	20008	20.0	19.0	
32 Acrylonitrile	53	4.781	4.720	0.060	24	2484	1.00	0.7926	
33 Methyl tert-butyl ether	73	4.799	4.793	0.006	98	19664	1.00	0.9742	M
34 trans-1,2-Dichloroethene	96	4.817	4.811	0.006	96	6334	1.00	0.9598	M
36 Hexane	57	5.243	5.225	0.018	92	8434	1.00	0.8764	
37 1,1-Dichloroethane	63	5.480	5.462	0.018	65	10770	1.00	0.9783	
39 Isopropyl ether	45	5.541	5.517	0.024	93	19652	1.00	1.01	
40 2-Chloro-1,3-butadiene	53	5.590	5.571	0.019	92	9906	1.00	0.9415	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.070	6.058	0.012	95	19211	1.00	0.9752	
S 42 1,2-Dichloroethene, Total	100				0			1.88	
43 2-Butanone (MEK)	43	6.277	6.259	0.018	78	8963	2.00	2.03	
44 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	81	6909	1.00	0.9235	
45 2,2-Dichloropropane	77	6.332	6.320	0.012	79	10358	1.00	0.9296	
46 Propionitrile	54	6.356	6.344	0.012	98	23355	20.0	19.8	
47 Methacrylonitrile	67	6.575	6.557	0.018	88	32476	10.0	9.23	
48 Chlorobromomethane	128	6.636	6.642	-0.006	59	3600	1.00	0.8801	
49 Tetrahydrofuran	71	6.648	6.642	0.006	66	2132	2.00	1.79	
50 Chloroform	83	6.788	6.782	0.006	94	11676	1.00	0.9710	
$ 51 Dibromofluoromethane (Surr)	113	7.007	7.001	0.006	93	291304	50.0	50.0	
52 1,1,1-Trichloroethane	97	7.025	7.013	0.012	36	10565	1.00	0.8992	
54 Cyclohexane	56	7.129	7.123	0.006	90	9311	1.00	0.8155	
56 1,1-Dichloropropene	75	7.232	7.226	0.006	87	8687	1.00	0.9353	
55 Carbon tetrachloride	117	7.238	7.232	0.006	90	8971	1.00	0.8518	
58 Isobutyl alcohol	41	7.354	7.354	0.000	91	14892	50.0	45.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.457	0.006	96	71569	50.0	50.2	
60 Benzene	78	7.506	7.494	0.012	97	25382	1.00	0.9573	
61 1,2-Dichloroethane	62	7.567	7.567	0.000	97	10458	1.00	1.08	
62 Tert-amyl methyl ether	73	7.682	7.676	0.006	97	19909	1.00	0.9892	
* 64 Fluorobenzene (IS)	96	7.901	7.895	0.006	99	1114374	50.0	50.0	
65 n-Heptane	43	7.914	7.914	0.000	37	8854	1.00	0.9217	
66 n-Butanol	56	8.242	8.242	0.000	92	22922	100.0	89.7	
67 Trichloroethene	95	8.382	8.382	0.000	93	6821	1.00	0.9388	
68 Methylcyclohexane	83	8.704	8.698	0.006	91	12252	1.00	0.8958	
70 1,2-Dichloropropane	63	8.723	8.717	0.006	70	6163	1.00	0.9561	
69 2-ethoxy-2-methyl butane	87	8.717	8.723	-0.006	89	10068	1.00	0.9146	
71 Methyl methacrylate	69	8.796	8.790	0.006	86	5696	1.00	0.9529	
72 1,4-Dioxane	88	8.802	8.802	0.000	61	1934	50.0	37.7	
74 Dibromomethane	93	8.826	8.832	-0.006	94	4444	1.00	0.99	
75 Dichlorobromomethane	83	9.069	9.063	0.006	97	8134	1.00	0.9008	
77 2-Nitropropane	41	9.319	9.325	-0.006	96	5634	2.00	2.02	
78 2-Chloroethyl vinyl ether	63	9.422	9.410	0.012	88	4540	1.00	0.9564	
79 cis-1,3-Dichloropropene	75	9.605	9.599	0.006	91	9471	1.00	0.8835	
80 4-Methyl-2-pentanone (MIBK)	43	9.763	9.757	0.006	95	17176	2.00	1.86	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1134993	50.0	50.1	
82 Toluene	92	9.982	9.976	0.006	97	16555	1.00	0.9292	
S 83 1,3-Dichloropropene, Total	100				0			1.78	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	93	8840	1.00	0.8948	
85 Ethyl methacrylate	69	10.286	10.280	0.006	91	9104	1.00	0.9067	
86 1,1,2-Trichloroethane	97	10.438	10.432	0.006	87	6573	1.00	1.03	
87 Tetrachloroethene	166	10.523	10.523	0.000	95	8173	1.00	0.8920	
88 1,3-Dichloropropane	76	10.596	10.590	0.006	88	9968	1.00	0.9730	
89 2-Hexanone	43	10.639	10.633	0.006	94	12699	2.00	1.83	
90 Chlorodibromomethane	129	10.809	10.809	0.000	90	6712	1.00	0.8786	
91 Ethylene Dibromide	107	10.919	10.919	0.000	95	6935	1.00	0.9857	
S 92 Xylenes, Total	106				0			2.73	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	86	910080	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.351	-0.006	34	11128	1.00	1.03	
95 Chlorobenzene	112	11.375	11.375	0.000	94	20206	1.00	0.9677	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.454	-0.006	44	7175	1.00	0.9228	
97 Ethylbenzene	91	11.454	11.454	0.000	97	33816	1.00	0.9481	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	100	26217	2.00	1.82	
99 o-Xylene	106	11.898	11.898	0.000	97	13049	1.00	0.9165	
100 Styrene	104	11.910	11.911	-0.001	94	20794	1.00	0.8995	
101 Bromoform	173	12.075	12.075	0.000	92	4723	1.00	0.8127	
102 Isopropylbenzene	105	12.196	12.196	0.000	95	35125	1.00	0.9207	
103 Cyclohexanone	55	12.269	12.269	0.000	92	10112	50.0	47.5	
$ 104 4-Bromofluorobenzene (Surr)	95	12.342	12.342	0.000	93	450862	50.0	50.0	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	95	9077	1.00	0.9491	
106 Bromobenzene	156	12.464	12.464	0.000	67	9559	1.00	0.9659	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	92	30820	10.0	9.08	
108 1,2,3-Trichloropropane	110	12.494	12.488	0.006	72	3186	1.00	0.9390	
109 N-Propylbenzene	91	12.525	12.525	0.000	99	40712	1.00	0.9521	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	9014	1.00	0.9601	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	95	29161	1.00	0.9089	
112 4-Chlorotoluene	126	12.695	12.695	0.000	96	8995	1.00	0.9424	
113 tert-Butylbenzene	134	12.908	12.902	0.006	92	6809	1.00	0.9247	
114 Pentachloroethane	167	12.932	12.939	-0.007	48	5293	1.00	0.8697	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	29414	1.00	0.8949	
116 sec-Butylbenzene	105	13.066	13.066	0.000	95	35128	1.00	0.8816	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	98	17286	1.00	0.9244	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	97	32347	1.00	0.9023	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	-0.001	94	540025	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	94	18427	1.00	0.9650	
121 1,2,3-Trimethylbenzene	105	13.255	13.249	0.006	96	31351	1.00	0.9573	
122 Benzyl chloride	91	13.316	13.316	0.000	98	17773	1.00	0.8175	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	93	18880	1.00	0.8794	
124 p-Diethylbenzene	119	13.444	13.444	0.000	95	20182	1.00	0.8930	
125 n-Butylbenzene	92	13.468	13.468	0.000	95	13995	1.00	0.8380	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	98	17066	1.00	0.9554	
127 o-diethylbenzene	119	13.523	13.517	0.006	94	16144	1.00	0.9130	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	82	2116	1.00	0.8471	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	95	11685	1.00	0.8934	
131 1,2,4-Trichlorobenzene	180	14.599	14.599	0.000	94	10062	1.00	0.8764	
132 Hexachlorobutadiene	225	14.678	14.679	-0.001	93	4445	1.00	0.9173	
133 Naphthalene	128	14.782	14.782	0.000	97	35281	1.00	0.9506	
134 1,2,3-Trichlorobenzene	180	14.934	14.928	0.006	95	10310	1.00	0.9537	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	90	19027	1.00	0.9066	
S 144 Total Diethylbenzene	1				0			2.69	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEE_00183	Amount Added: 12.50	Units: mL	
MSV_HP11_ISSS_00005	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 09-Mar-2021 09:52:40 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159 Operator ID: kas02648

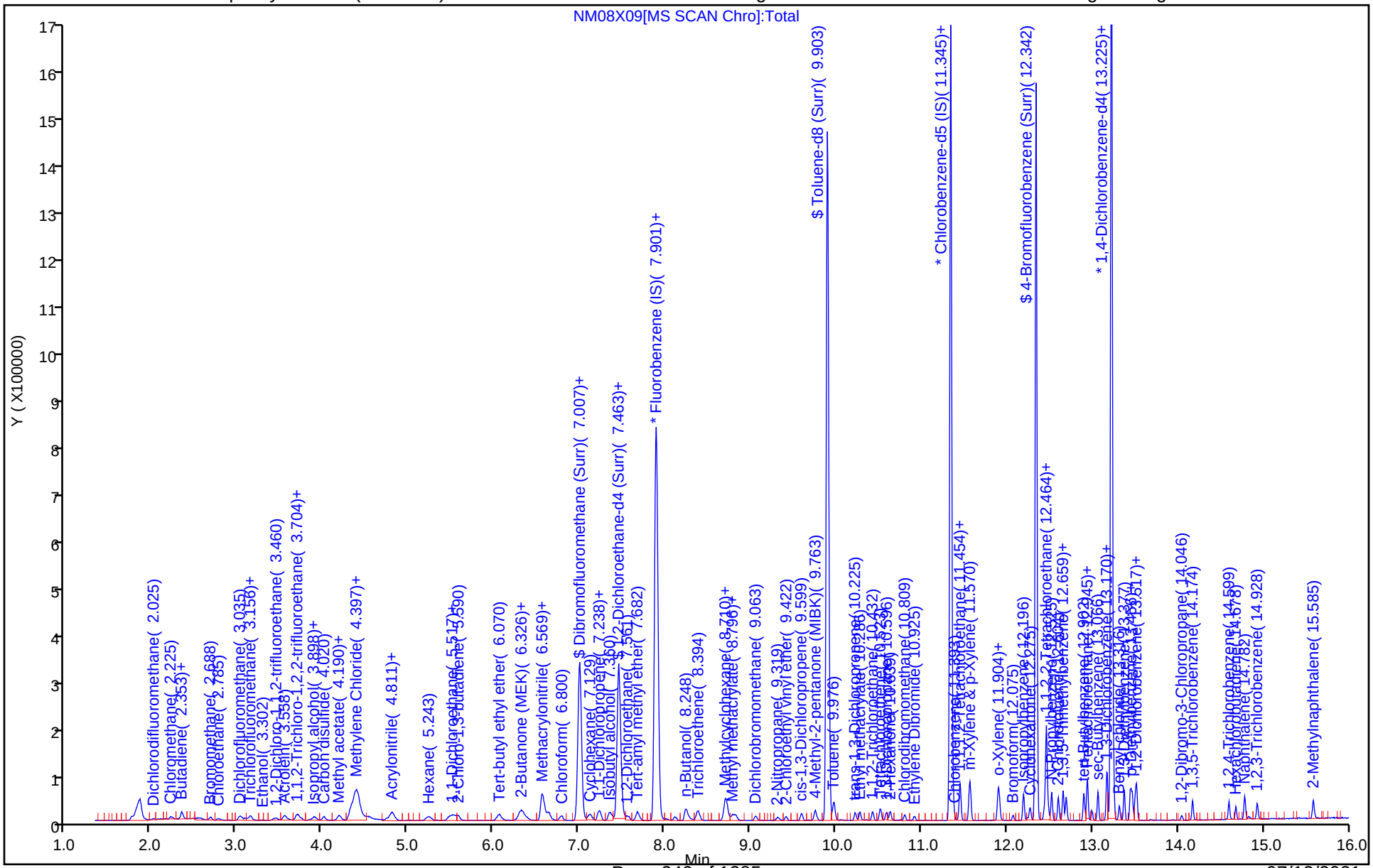
Lims ID: IC STD1 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

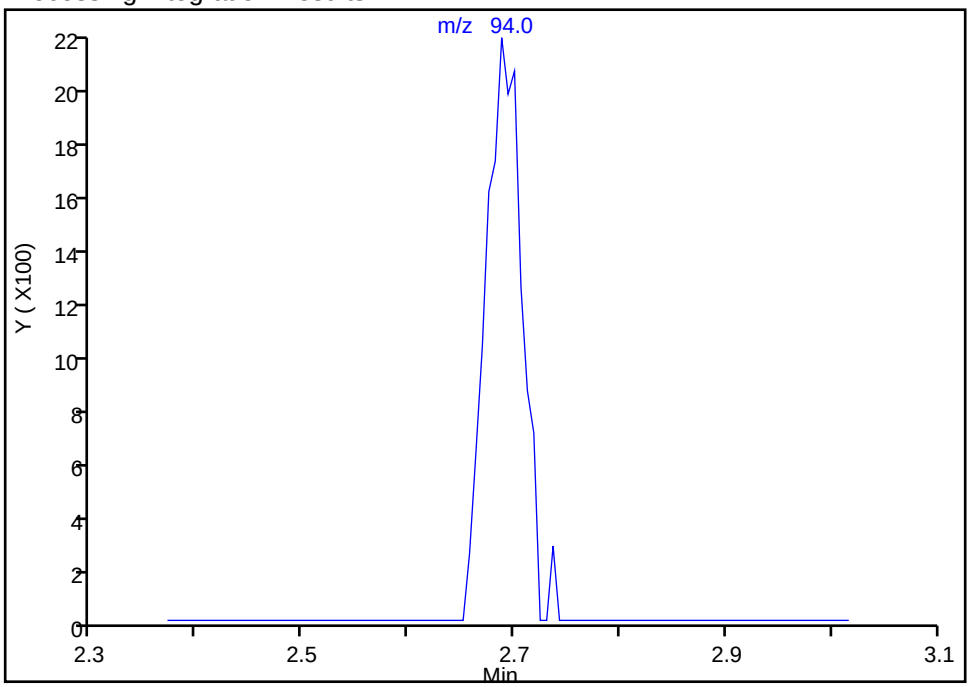
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Injection Date:	08-Mar-2021 18:03:30	Instrument ID:	7159		
Lims ID:	IC STD1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

10 Bromomethane, CAS: 74-83-9

Signal: 1

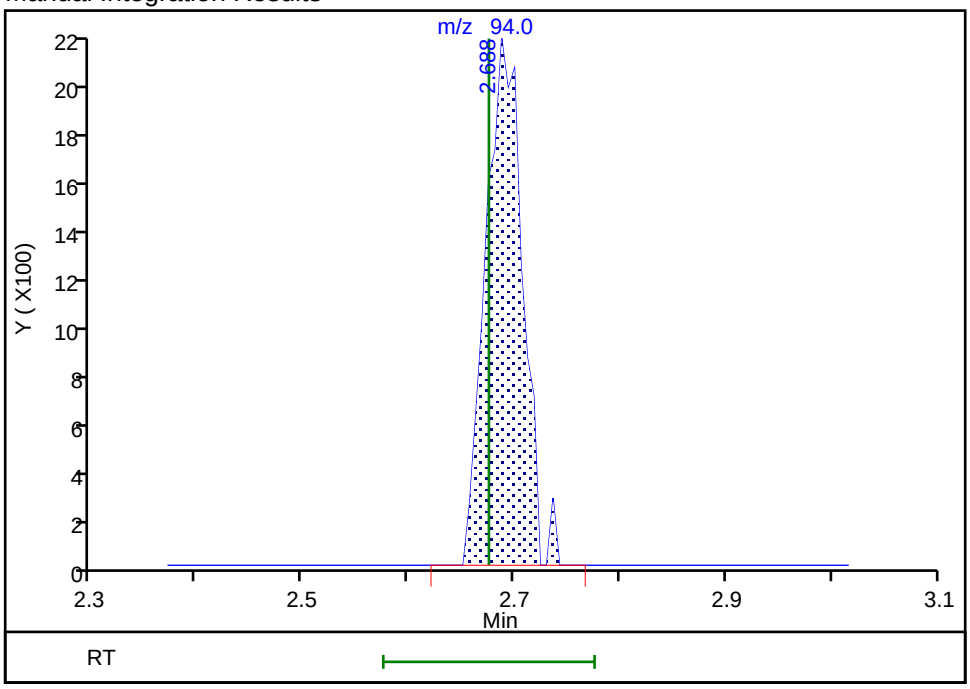
Not Detected
Expected RT: 2.68

Processing Integration Results



Manual Integration Results

RT: 2.69
Area: 5311
Amount: 0.954148
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:09
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

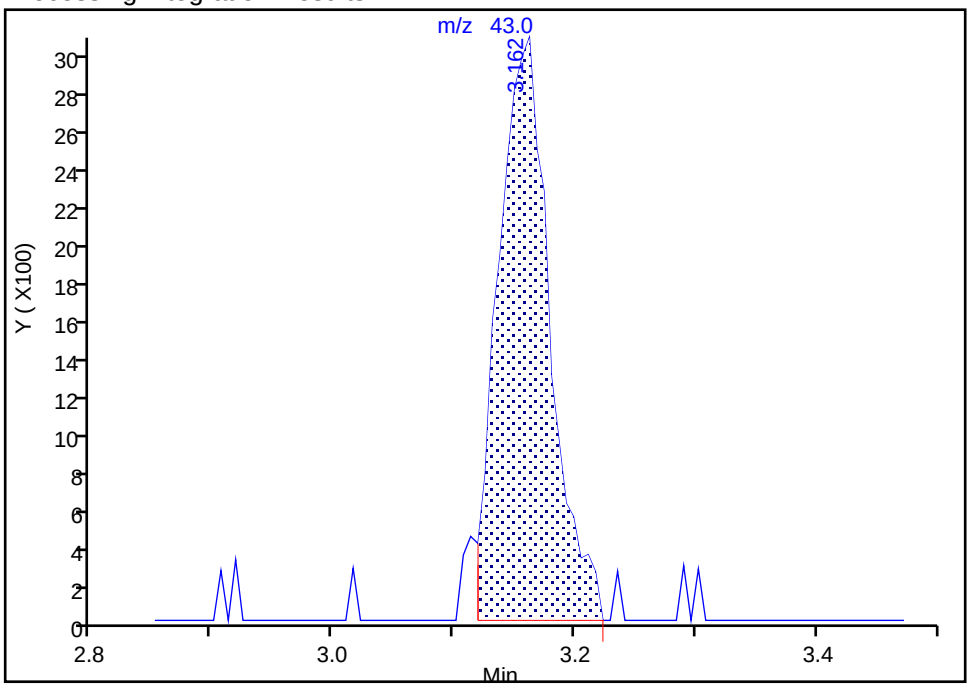
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159
Lims ID: IC STD1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

15 Pentane, CAS: 109-66-0

Signal: 1

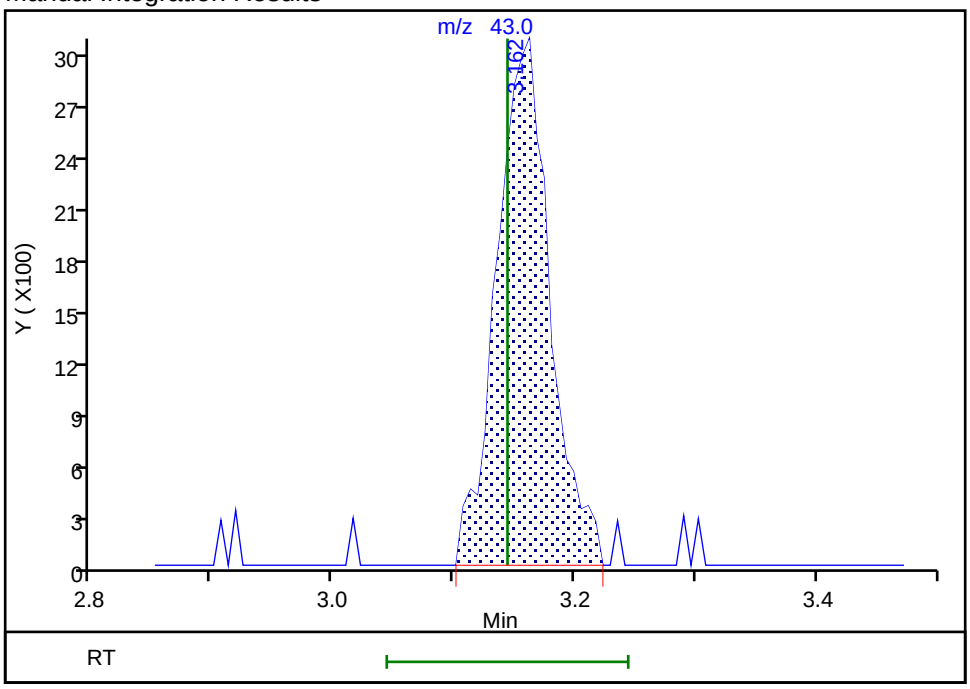
Processing Integration Results

RT: 3.16
Area: 9010
Amount: 0.894189
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 9294
Amount: 0.918675
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

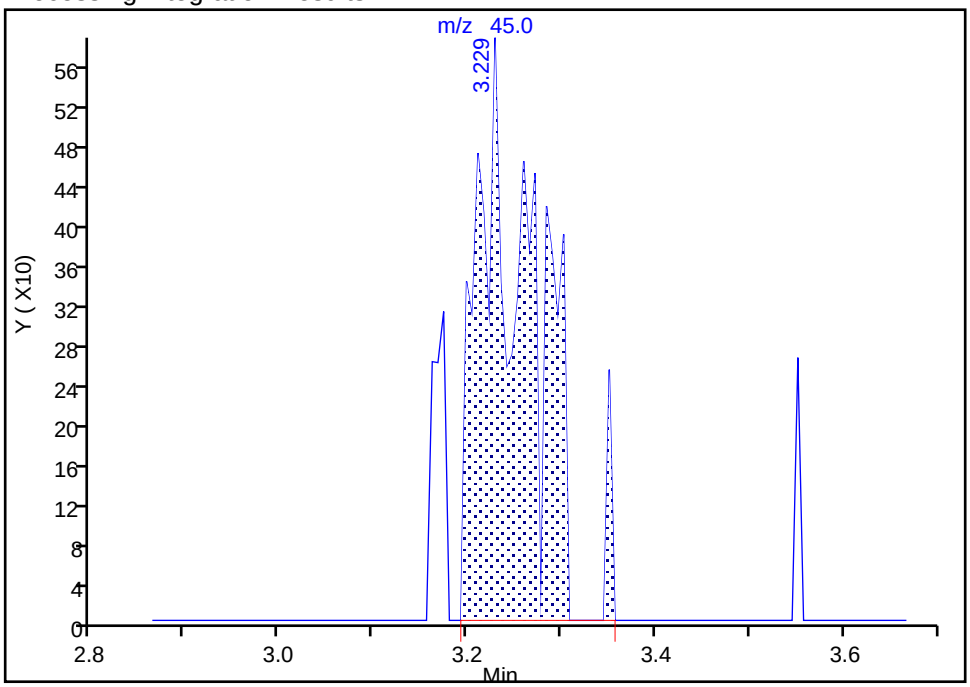
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159
Lims ID: IC STD1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

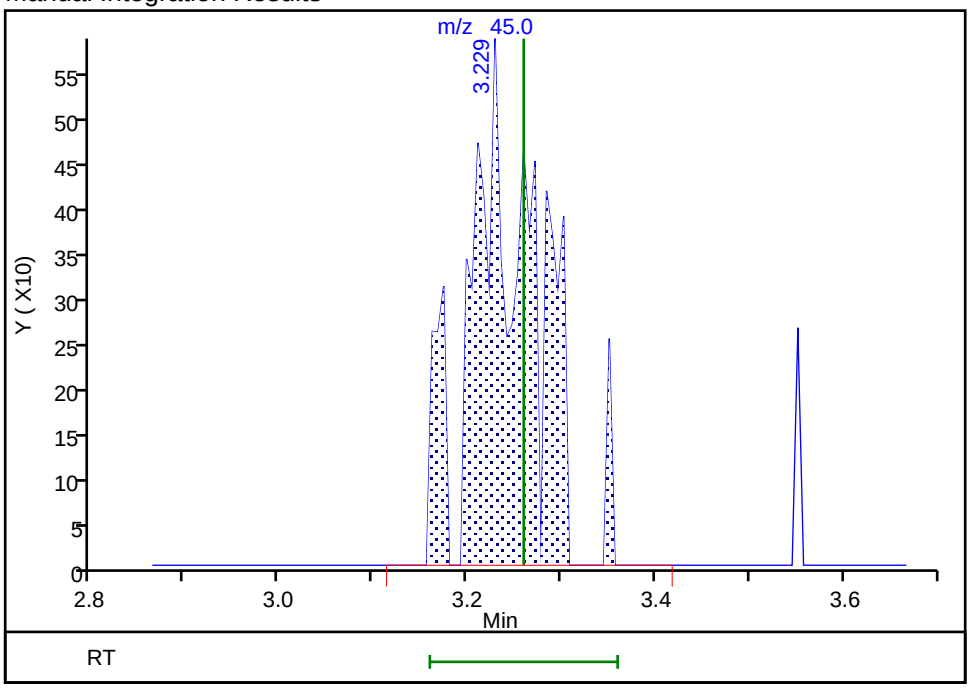
Processing Integration Results

RT: 3.23
Area: 2388
Amount: 47.956110
Amount Units: ug/l



Manual Integration Results

RT: 3.23
Area: 2688
Amount: 50.786615
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

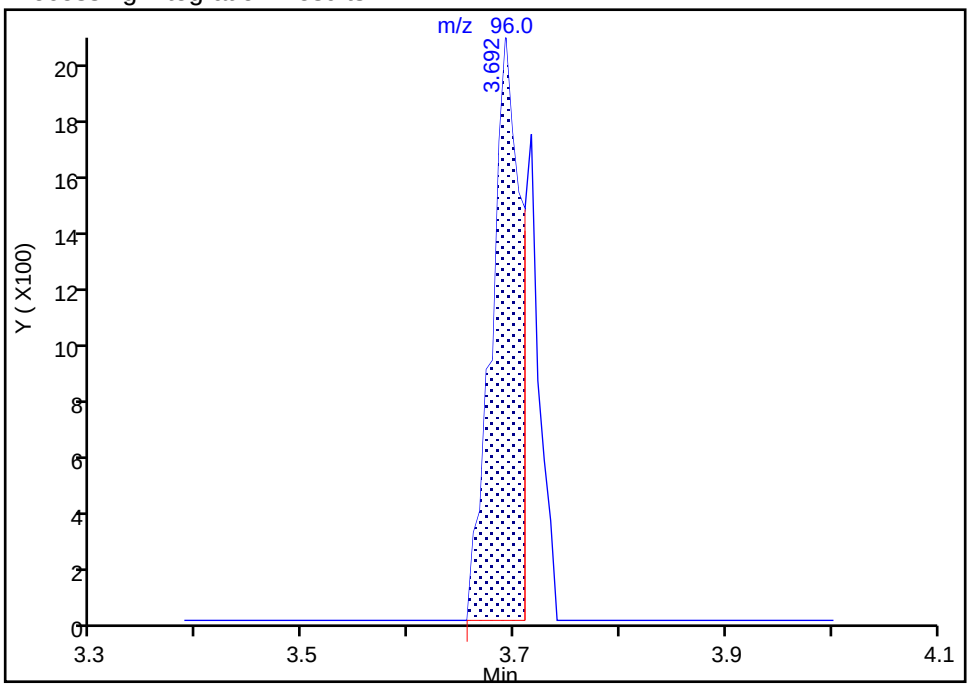
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159
Lims ID: IC STD1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

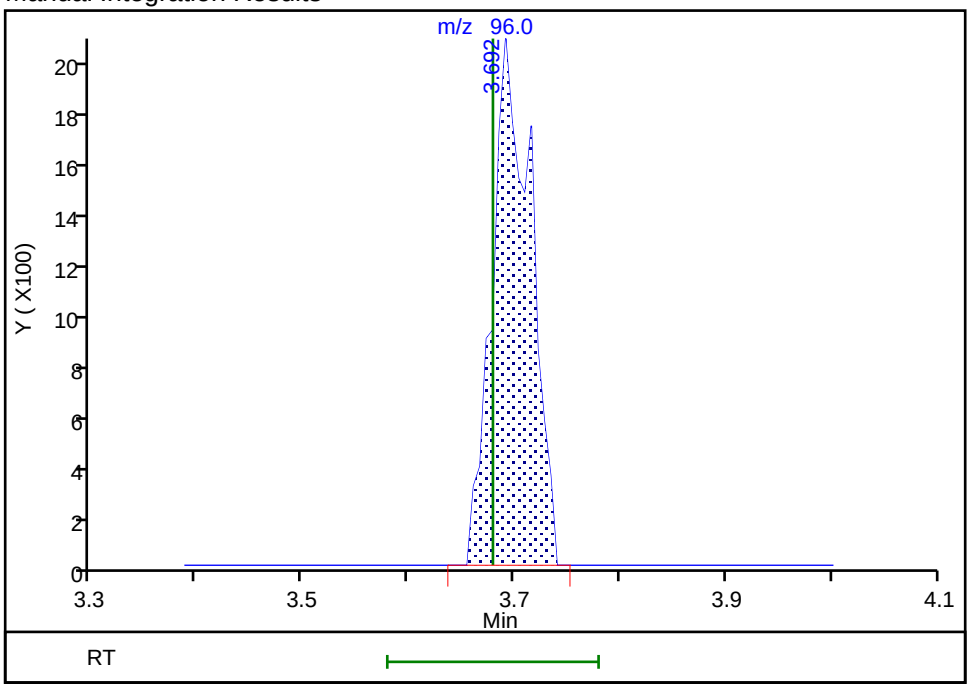
Processing Integration Results

RT: 3.69
Area: 3987
Amount: 0.724032
Amount Units: ug/l



Manual Integration Results

RT: 3.69
Area: 5255
Amount: 0.923907
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

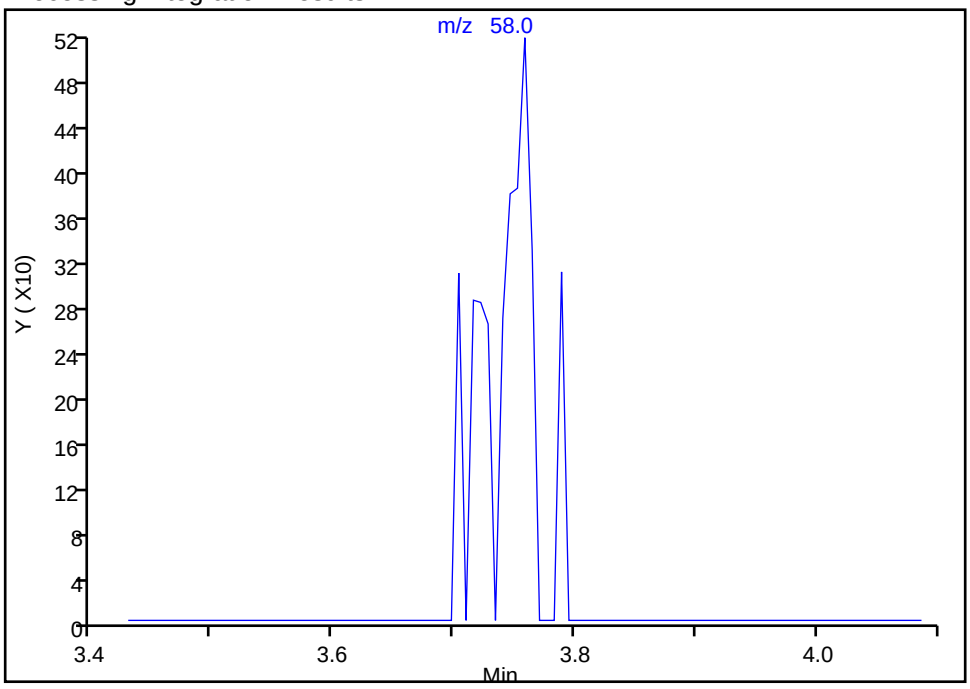
Data File:	\\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D				
Injection Date:	08-Mar-2021 18:03:30	Instrument ID:	7159		
Lims ID:	IC STD1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

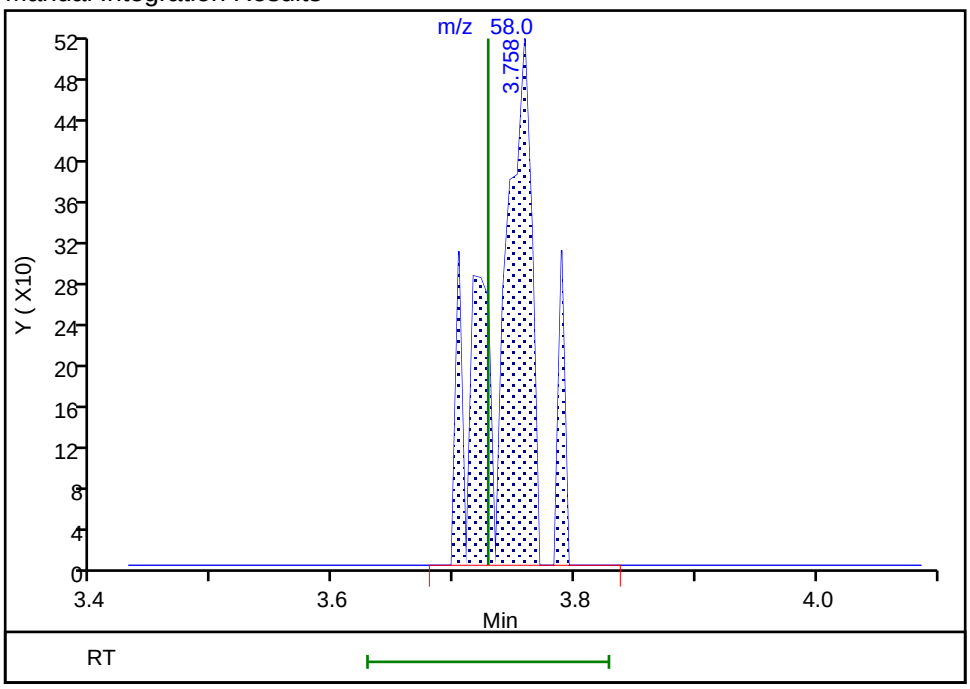
Not Detected
Expected RT: 3.73

Processing Integration Results



Manual Integration Results

RT: 3.76
Area: 1208
Amount: 1.643024
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

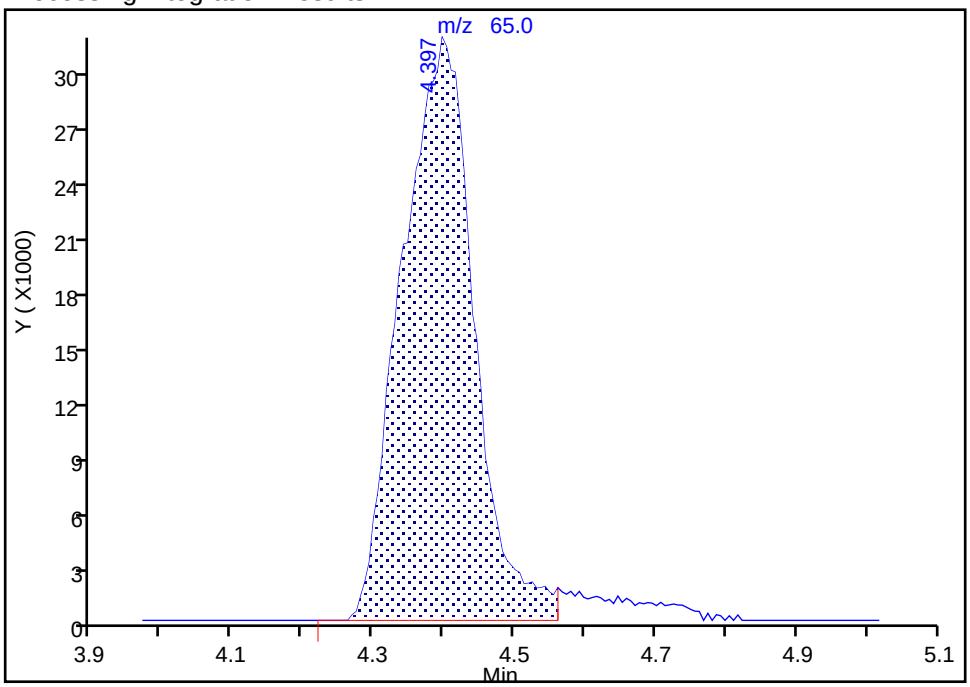
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159
Lims ID: IC STD1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

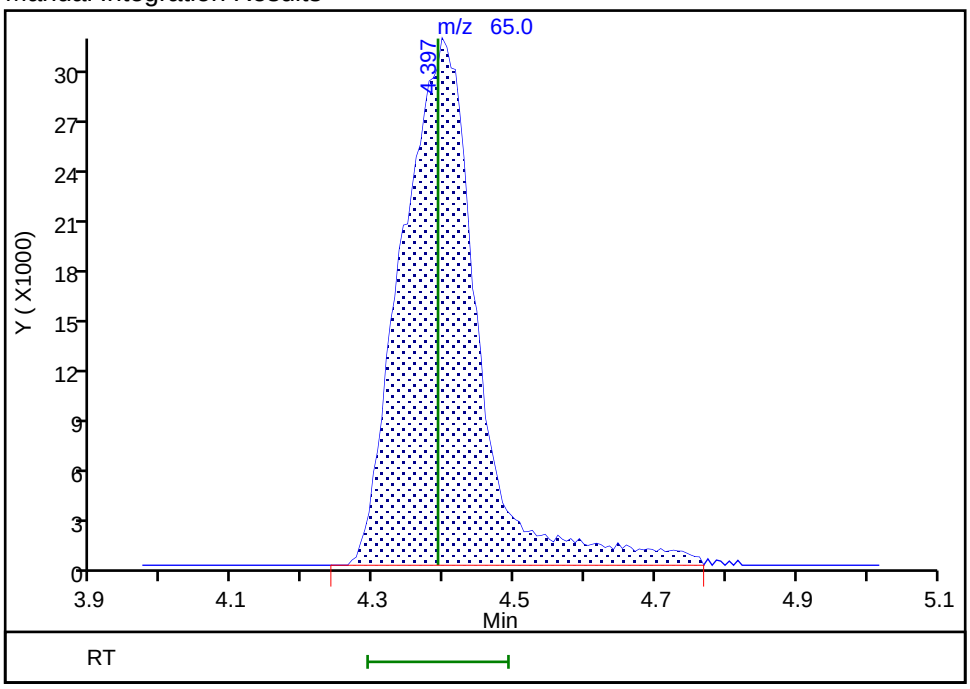
Processing Integration Results

RT: 4.40
Area: 227531
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.40
Area: 240084
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

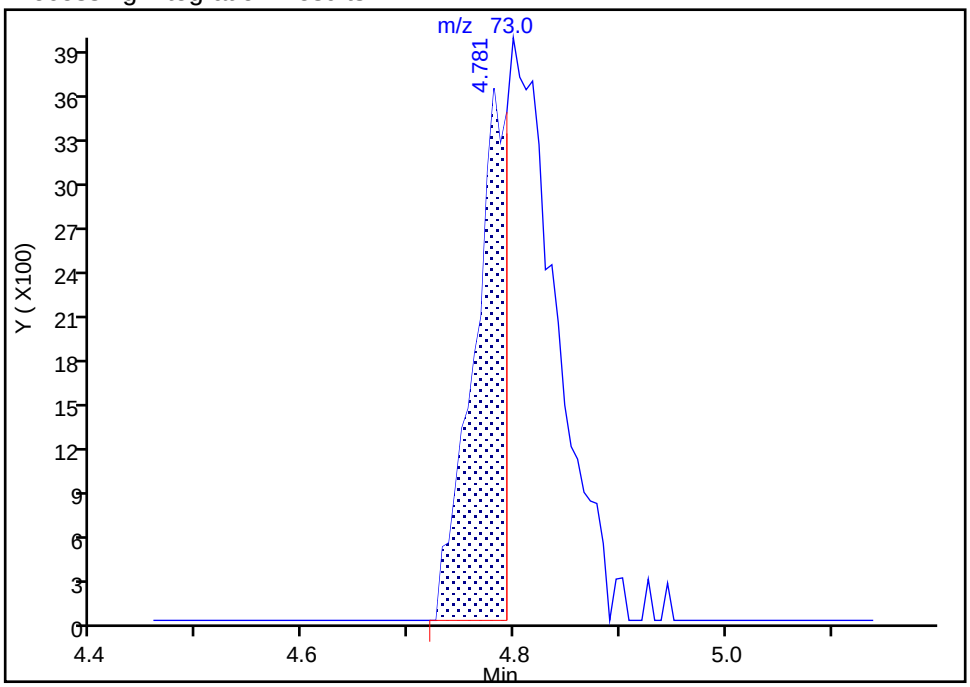
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159
Lims ID: IC STD1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

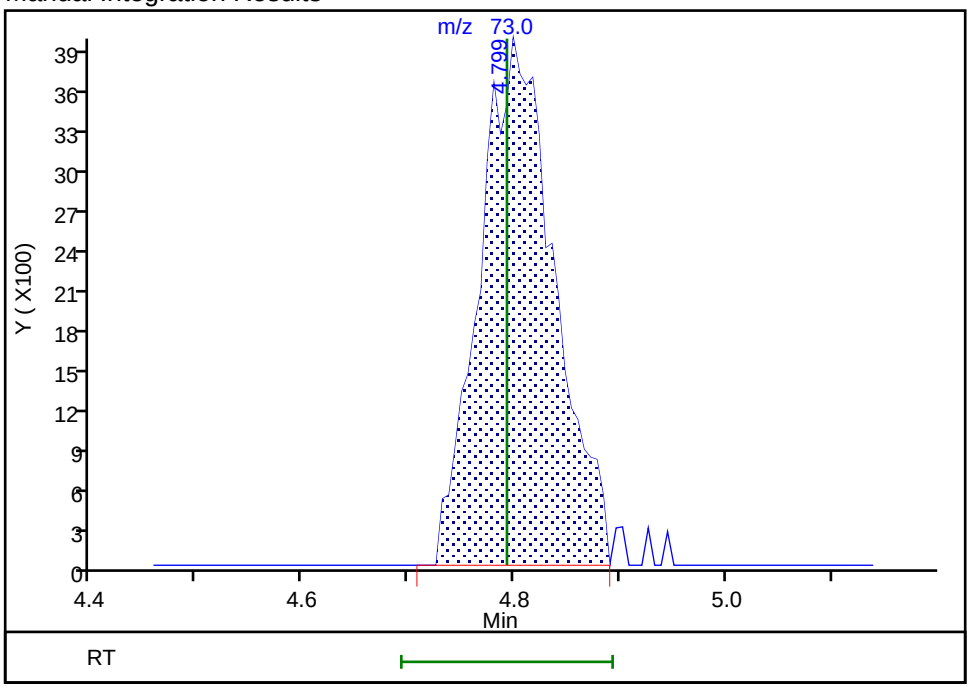
Processing Integration Results

RT: 4.78
Area: 8033
Amount: 0.965960
Amount Units: ug/l



Manual Integration Results

RT: 4.80
Area: 19664
Amount: 0.974202
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

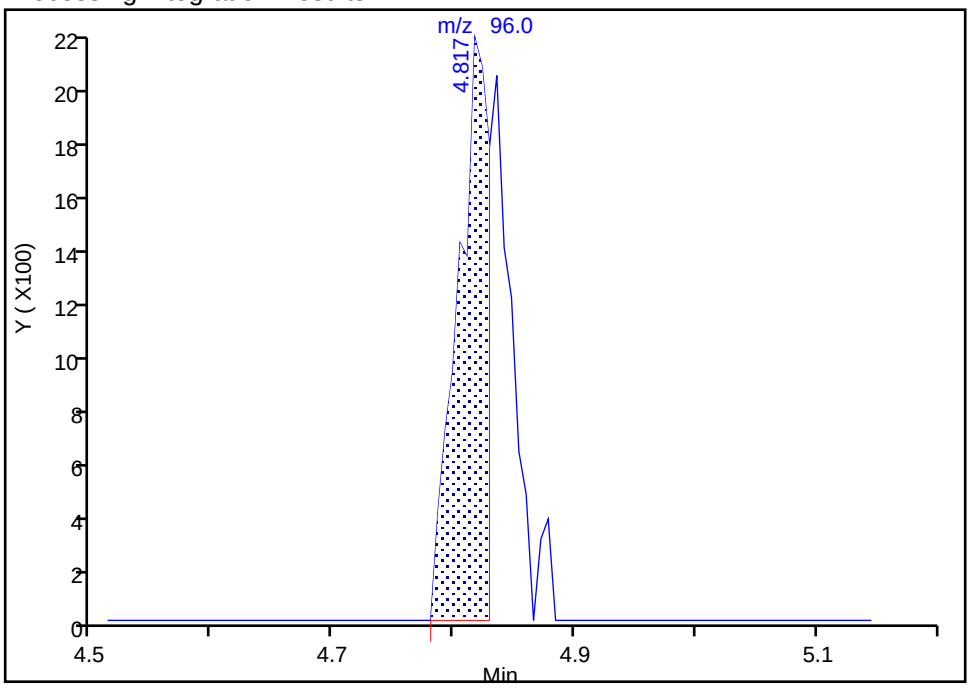
Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D
Injection Date: 08-Mar-2021 18:03:30 Instrument ID: 7159
Lims ID: IC STD1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

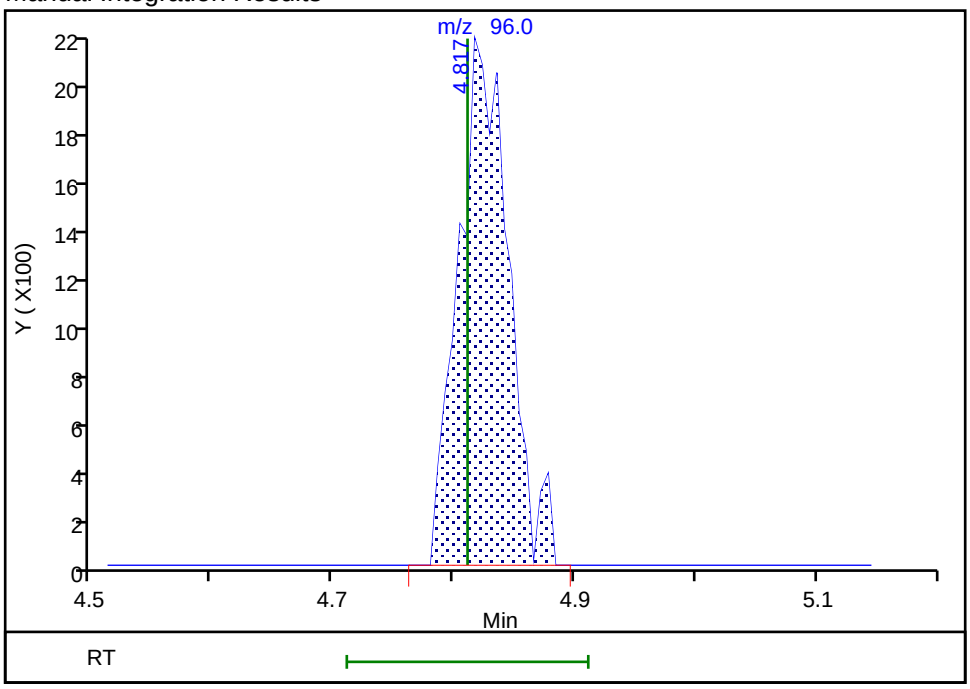
Processing Integration Results

RT: 4.82
Area: 3977
Amount: 0.972025
Amount Units: ug/l



Manual Integration Results

RT: 4.82
Area: 6334
Amount: 0.959847
Amount Units: ug/l



Reviewer: campbellme, 09-Mar-2021 00:04:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

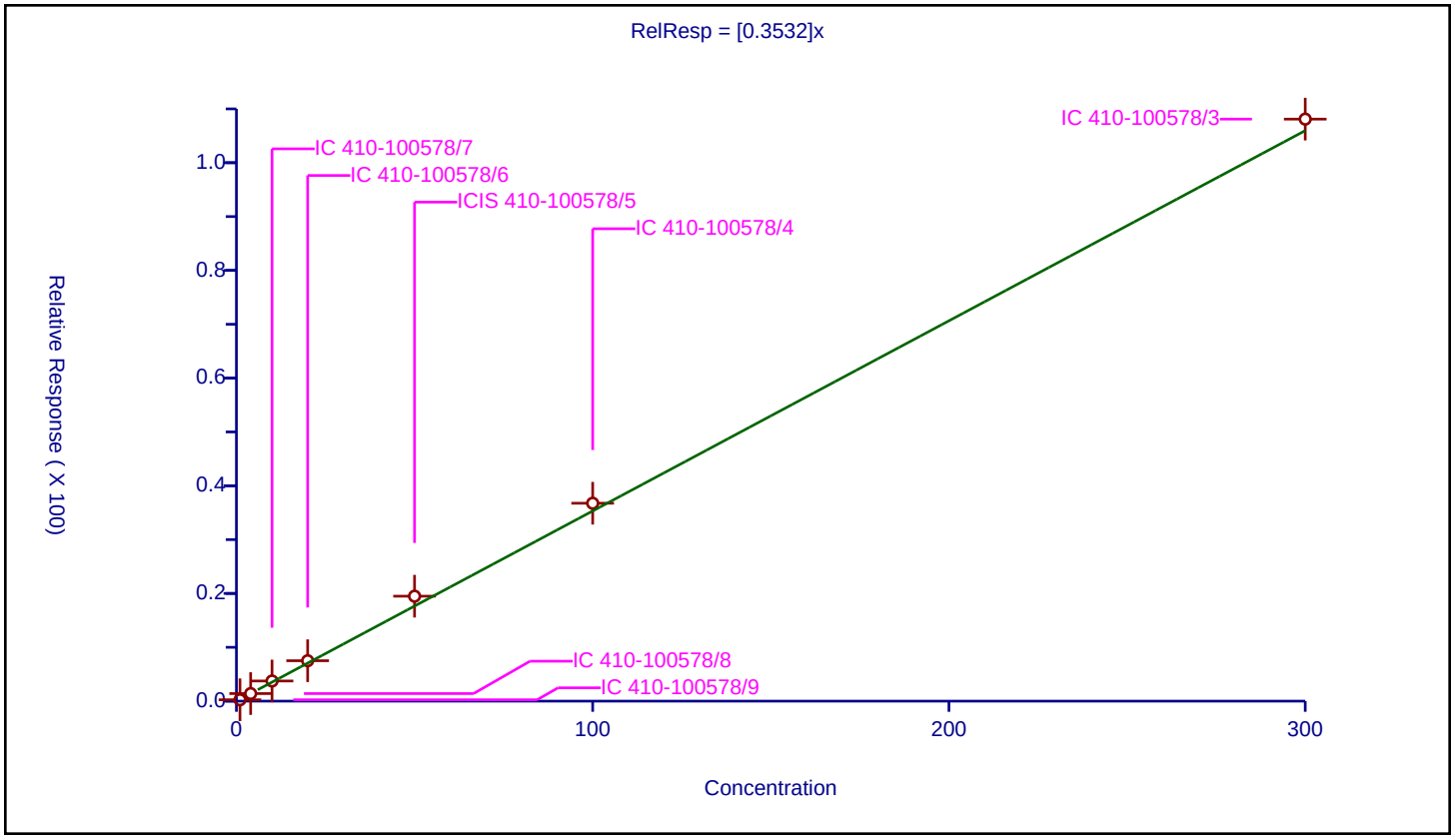
Curve Coefficients

Intercept:	0
Slope:	0.3532

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	12.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.253371	50.0	1114374.0	0.253371	Y
2	IC 410-100578/8	4.0	1.406745	50.0	1125115.0	0.351686	Y
3	IC 410-100578/7	10.0	3.742384	50.0	1128973.0	0.374238	Y
4	IC 410-100578/6	20.0	7.507274	50.0	1137963.0	0.375364	Y
5	ICIS 410-100578/5	50.0	19.493259	50.0	1157613.0	0.389865	Y
6	IC 410-100578/4	100.0	36.756423	50.0	1175853.0	0.367564	Y
7	IC 410-100578/3	300.0	108.100482	50.0	1137315.0	0.360335	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

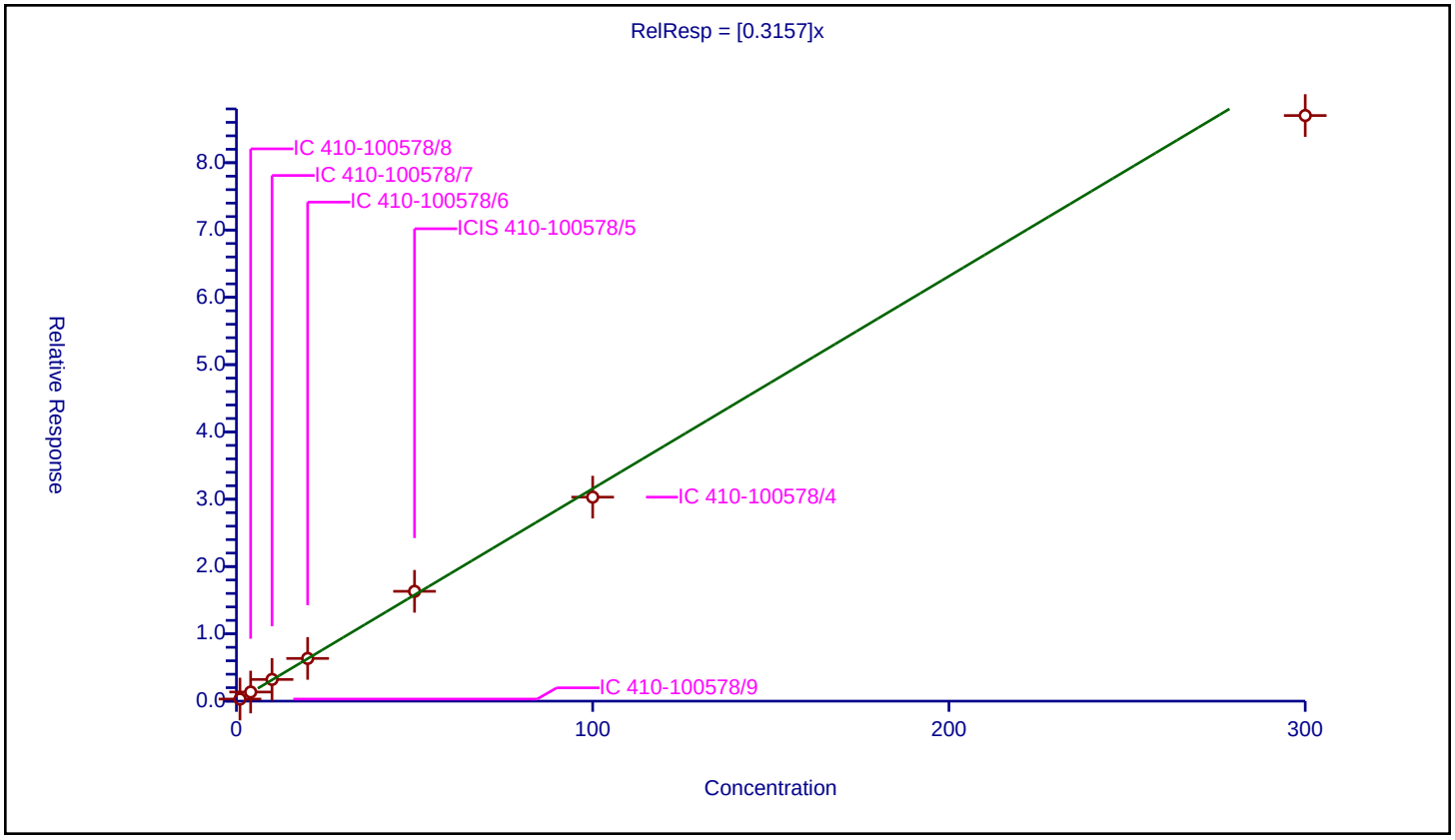
Curve Coefficients

Intercept:	0
Slope:	0.3157

Error Coefficients

Standard Error:	875000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.311475	50.0	1114374.0	0.311475	Y
2	IC 410-100578/8	4.0	1.357195	50.0	1125115.0	0.339299	Y
3	IC 410-100578/7	10.0	3.222088	50.0	1128973.0	0.322209	Y
4	IC 410-100578/6	20.0	6.346691	50.0	1137963.0	0.317335	Y
5	ICIS 410-100578/5	50.0	16.318925	50.0	1157613.0	0.326379	Y
6	IC 410-100578/4	100.0	30.312973	50.0	1175853.0	0.30313	Y
7	IC 410-100578/3	300.0	87.013932	50.0	1137315.0	0.290046	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

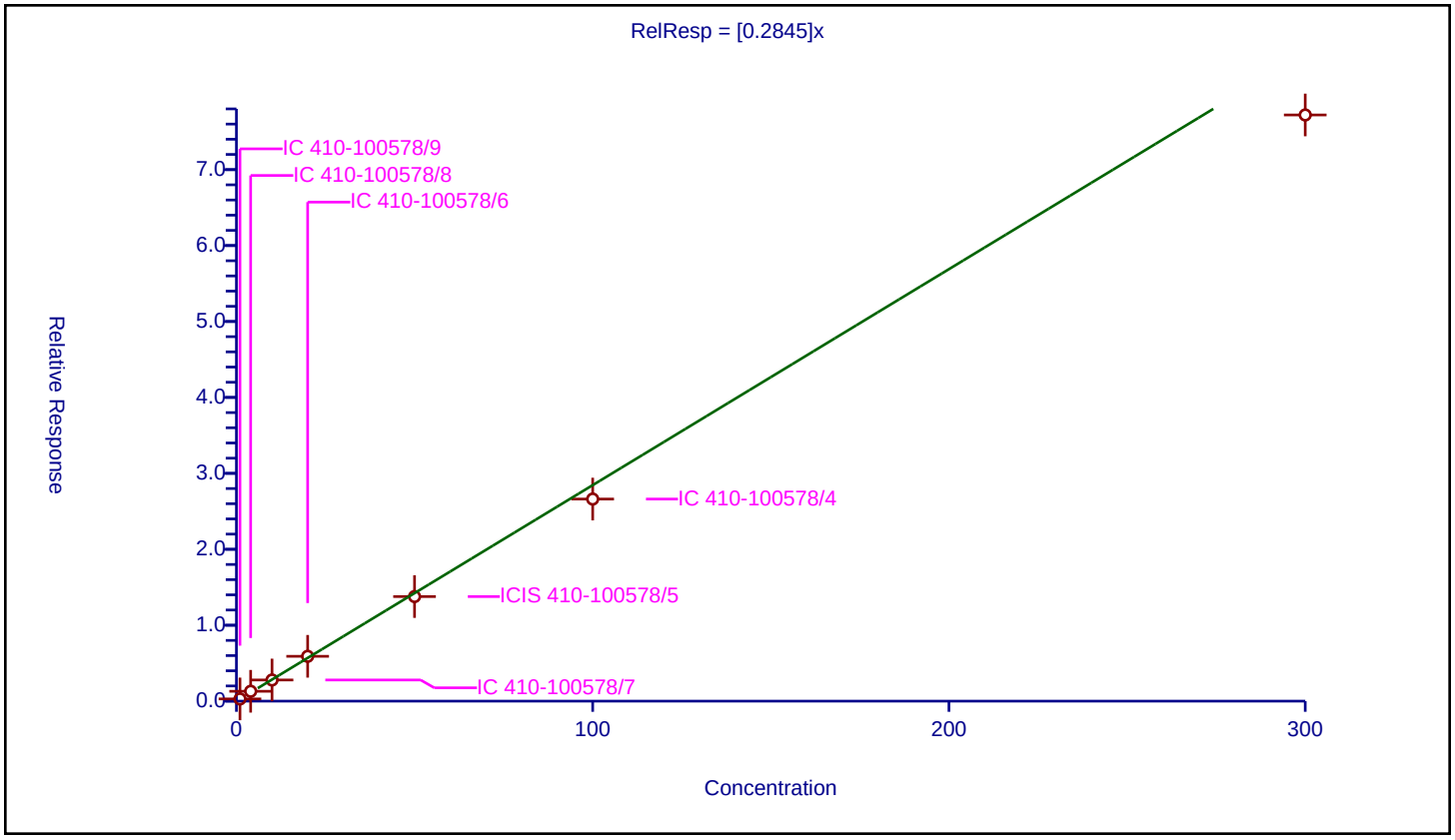
Curve Coefficients

Intercept:	0
Slope:	0.2845

Error Coefficients

Standard Error:	775000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.293393	50.0	1114374.0	0.293393	Y
2	IC 410-100578/8	4.0	1.300312	50.0	1125115.0	0.325078	Y
3	IC 410-100578/7	10.0	2.785186	50.0	1128973.0	0.278519	Y
4	IC 410-100578/6	20.0	5.905904	50.0	1137963.0	0.295295	Y
5	ICIS 410-100578/5	50.0	13.774206	50.0	1157613.0	0.275484	Y
6	IC 410-100578/4	100.0	26.614721	50.0	1175853.0	0.266147	Y
7	IC 410-100578/3	300.0	77.199237	50.0	1137315.0	0.257331	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

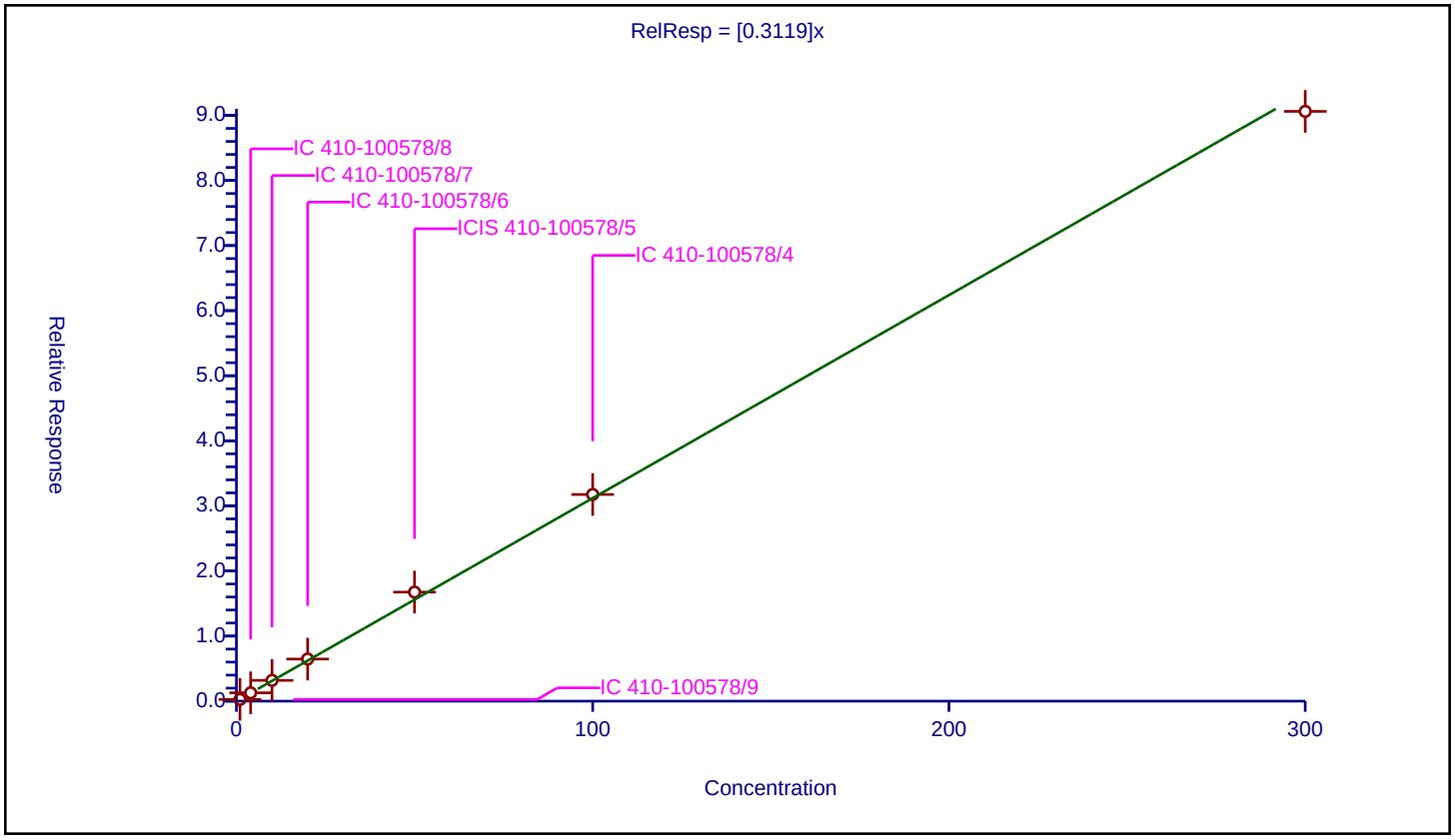
Curve Coefficients

Intercept:	0
Slope:	0.3119

Error Coefficients

Standard Error:	911000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.265441	50.0	1114374.0	0.265441	Y
2	IC 410-100578/8	4.0	1.281958	50.0	1125115.0	0.320489	Y
3	IC 410-100578/7	10.0	3.193522	50.0	1128973.0	0.319352	Y
4	IC 410-100578/6	20.0	6.469191	50.0	1137963.0	0.32346	Y
5	ICIS 410-100578/5	50.0	16.756118	50.0	1157613.0	0.335122	Y
6	IC 410-100578/4	100.0	31.756053	50.0	1175853.0	0.317561	Y
7	IC 410-100578/3	300.0	90.615617	50.0	1137315.0	0.302052	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

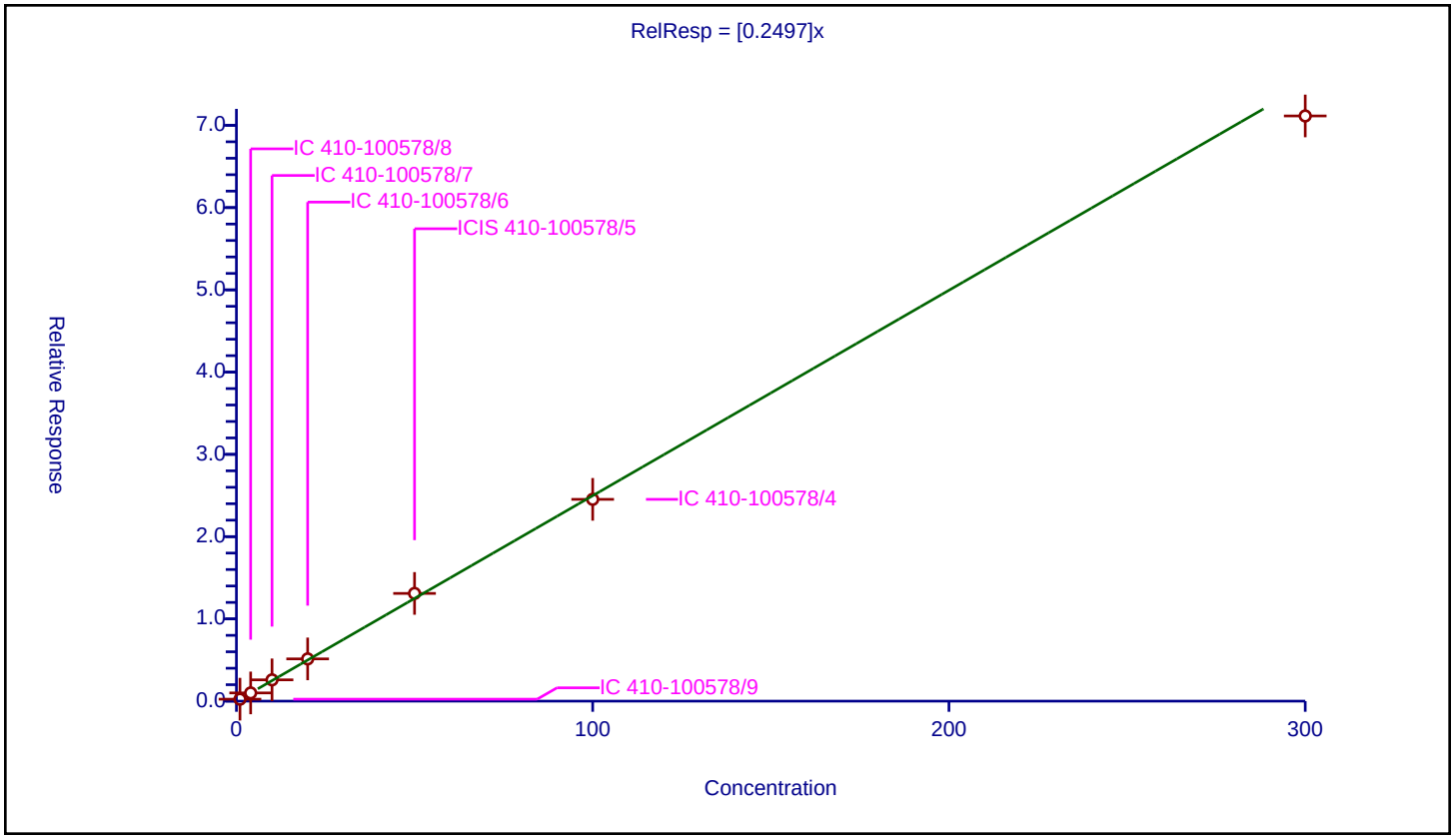
Curve Coefficients

Intercept:	0
Slope:	0.2497

Error Coefficients

Standard Error:	714000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.238295	50.0	1114374.0	0.238295	Y
2	IC 410-100578/8	4.0	0.999453	50.0	1125115.0	0.249863	Y
3	IC 410-100578/7	10.0	2.588724	50.0	1128973.0	0.258872	Y
4	IC 410-100578/6	20.0	5.136239	50.0	1137963.0	0.256812	Y
5	ICIS 410-100578/5	50.0	13.096043	50.0	1157613.0	0.261921	Y
6	IC 410-100578/4	100.0	24.532446	50.0	1175853.0	0.245324	Y
7	IC 410-100578/3	300.0	71.141109	50.0	1137315.0	0.237137	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

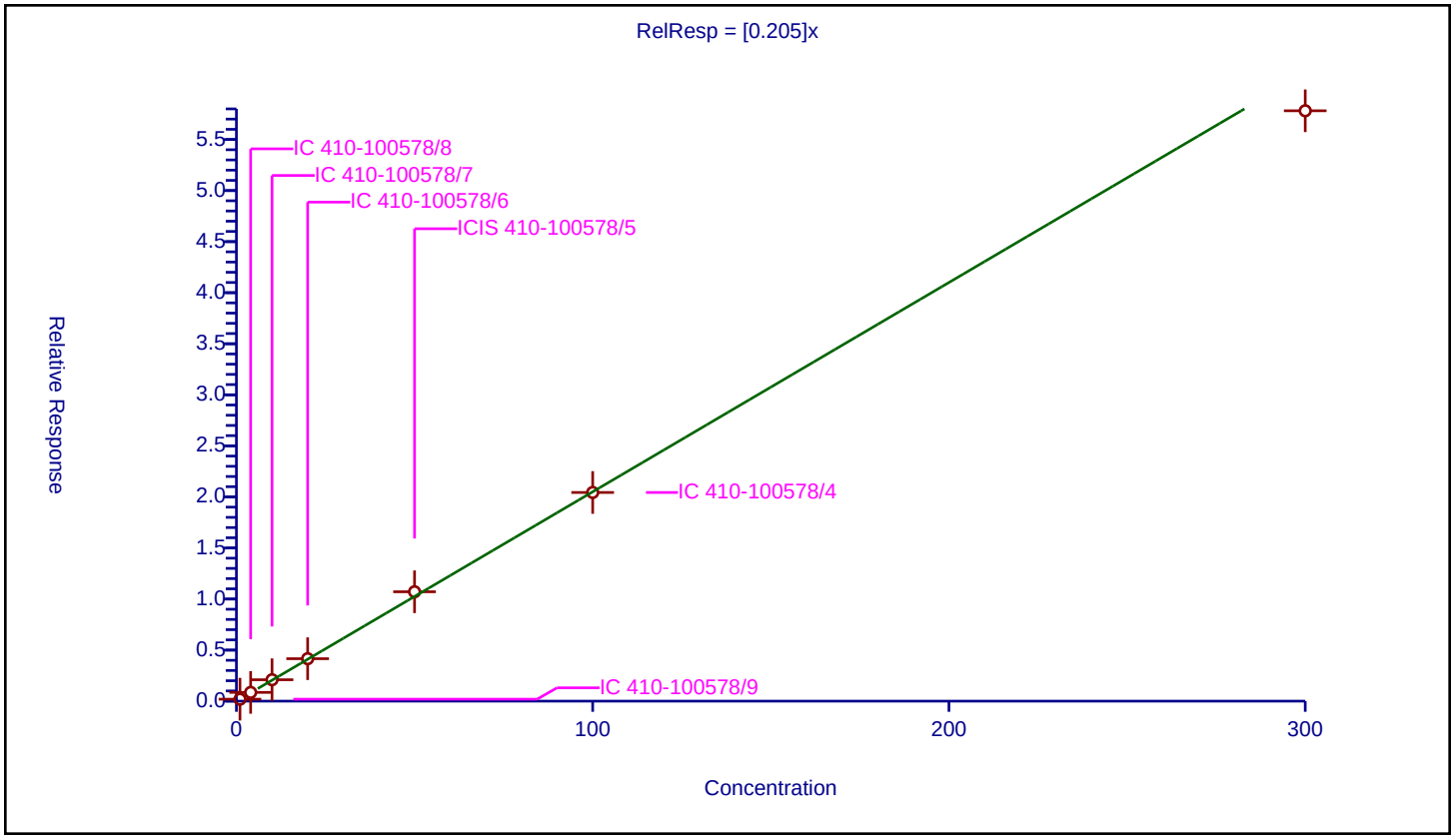
Curve Coefficients

Intercept:	0
Slope:	0.205

Error Coefficients

Standard Error:	582000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.192171	50.0	1114374.0	0.192171	Y
2	IC 410-100578/8	4.0	0.856624	50.0	1125115.0	0.214156	Y
3	IC 410-100578/7	10.0	2.09478	50.0	1128973.0	0.209478	Y
4	IC 410-100578/6	20.0	4.157165	50.0	1137963.0	0.207858	Y
5	ICIS 410-100578/5	50.0	10.711654	50.0	1157613.0	0.214233	Y
6	IC 410-100578/4	100.0	20.433634	50.0	1175853.0	0.204336	Y
7	IC 410-100578/3	300.0	57.815513	50.0	1137315.0	0.192718	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

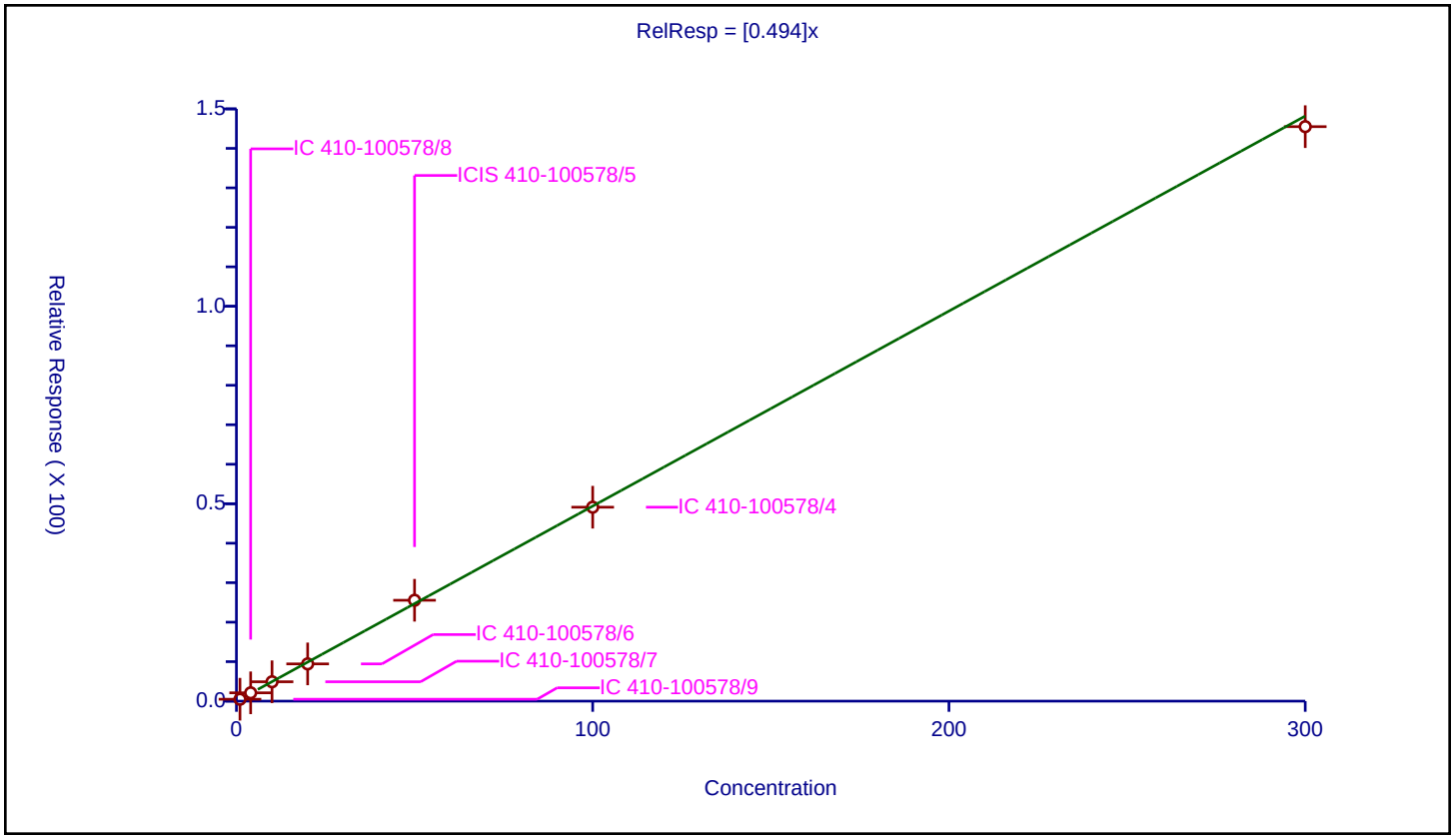
Curve Coefficients

Intercept:	0
Slope:	0.494

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.481122	50.0	1114374.0	0.481122	Y
2	IC 410-100578/8	4.0	2.108762	50.0	1125115.0	0.527191	Y
3	IC 410-100578/7	10.0	4.904059	50.0	1128973.0	0.490406	Y
4	IC 410-100578/6	20.0	9.43427	50.0	1137963.0	0.471713	Y
5	ICIS 410-100578/5	50.0	25.55176	50.0	1157613.0	0.511035	Y
6	IC 410-100578/4	100.0	49.121191	50.0	1175853.0	0.491212	Y
7	IC 410-100578/3	300.0	145.500851	50.0	1137315.0	0.485003	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

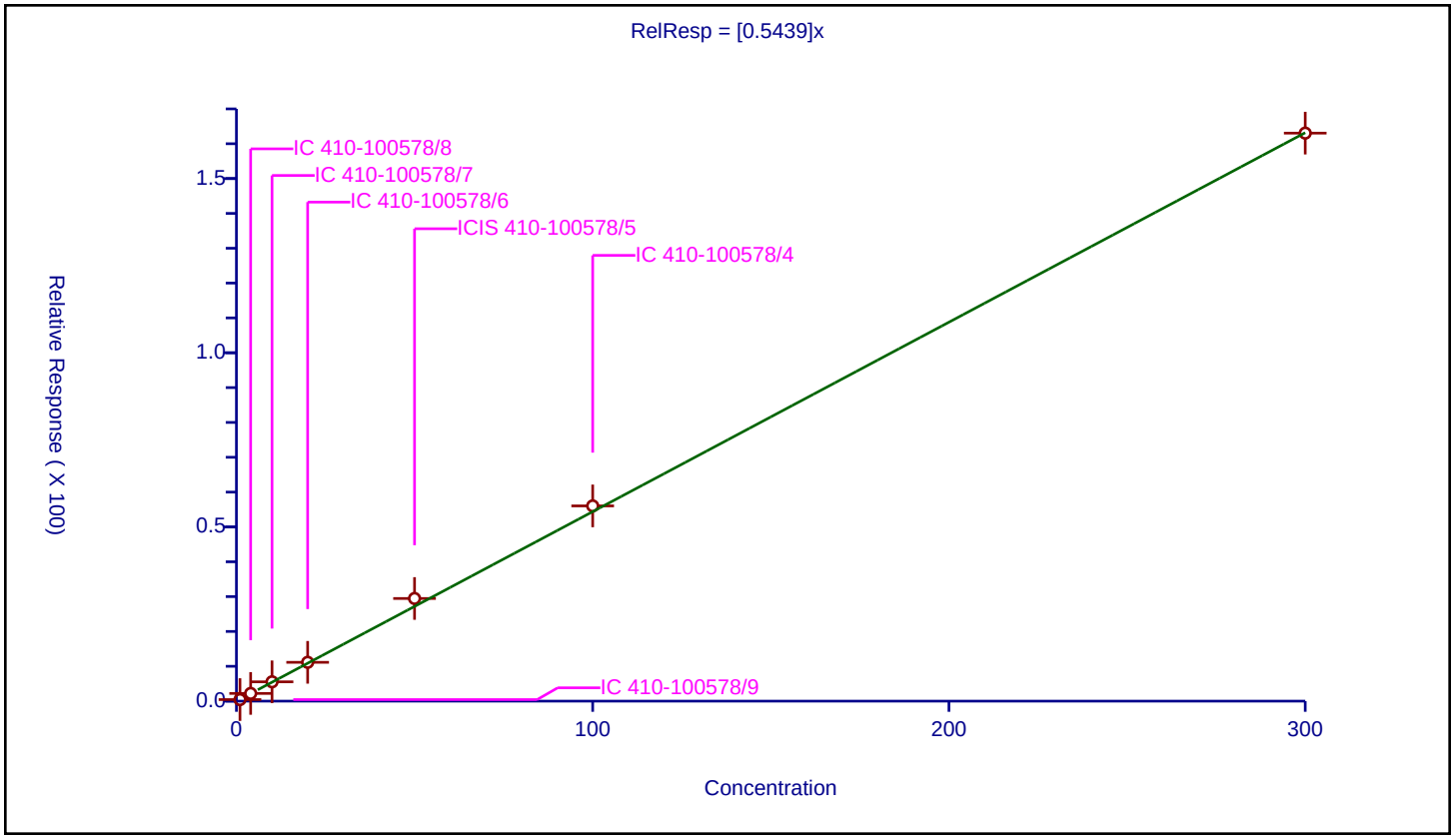
Curve Coefficients

Intercept:	0
Slope:	0.5439

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.448593	50.0	1114374.0	0.448593	Y
2	IC 410-100578/8	4.0	2.212396	50.0	1125115.0	0.553099	Y
3	IC 410-100578/7	10.0	5.54969	50.0	1128973.0	0.554969	Y
4	IC 410-100578/6	20.0	11.14531	50.0	1137963.0	0.557265	Y
5	ICIS 410-100578/5	50.0	29.465892	50.0	1157613.0	0.589318	Y
6	IC 410-100578/4	100.0	56.044506	50.0	1175853.0	0.560445	Y
7	IC 410-100578/3	300.0	163.040407	50.0	1137315.0	0.543468	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

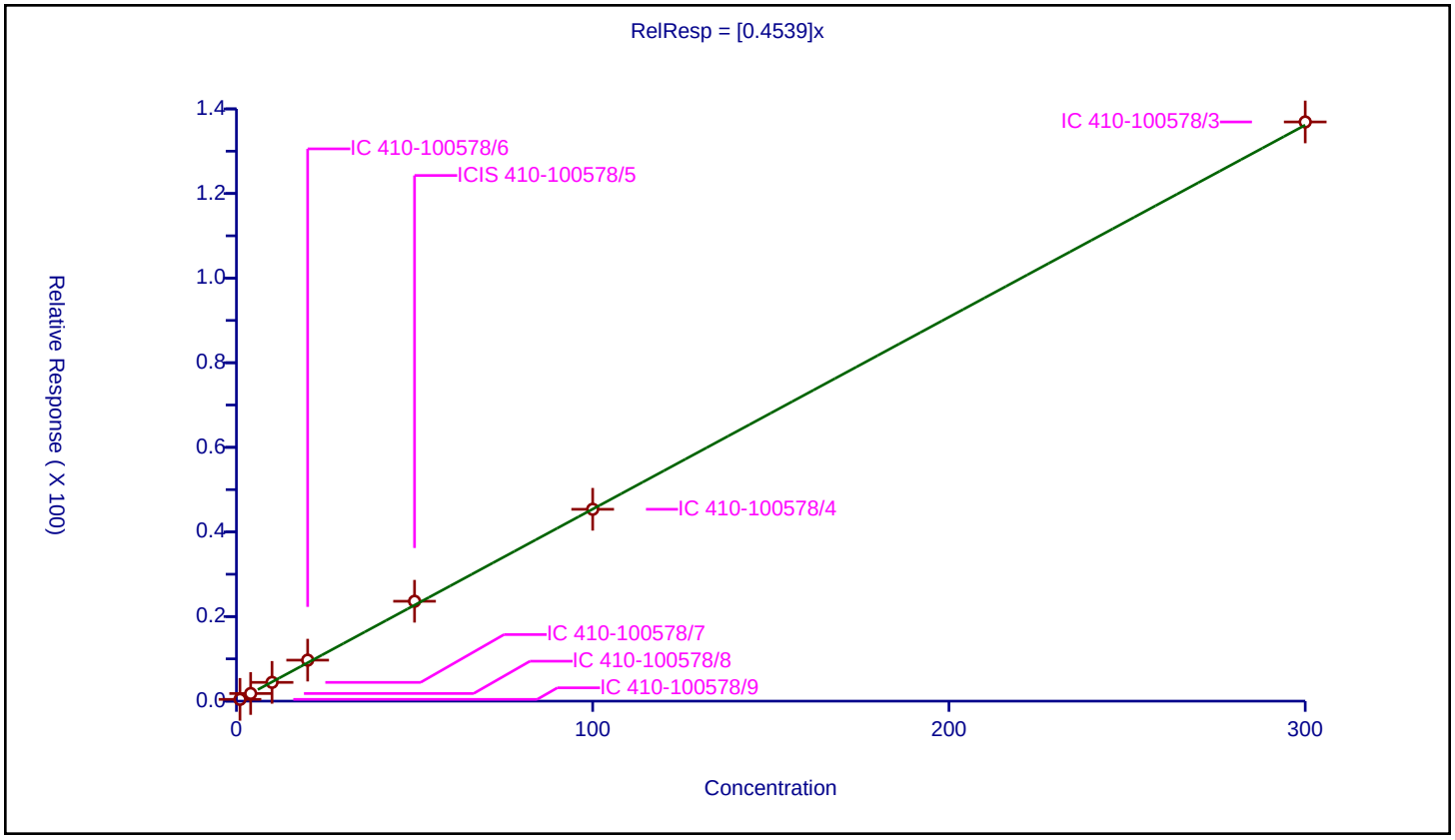
Curve Coefficients

Intercept:	0
Slope:	0.4539

Error Coefficients

Standard Error:	1370000
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 410-100578/9	1.0	0.417005	50.0	1114374.0	0.417005	Y
2	IC 410-100578/8	4.0	1.800705	50.0	1125115.0	0.450176	Y
3	IC 410-100578/7	10.0	4.435934	50.0	1128973.0	0.443593	Y
4	IC 410-100578/6	20.0	9.689946	50.0	1137963.0	0.484497	Y
5	ICIS 410-100578/5	50.0	23.612382	50.0	1157613.0	0.472248	Y
6	IC 410-100578/4	100.0	45.352991	50.0	1175853.0	0.45353	Y
7	IC 410-100578/3	300.0	136.917784	50.0	1137315.0	0.456393	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

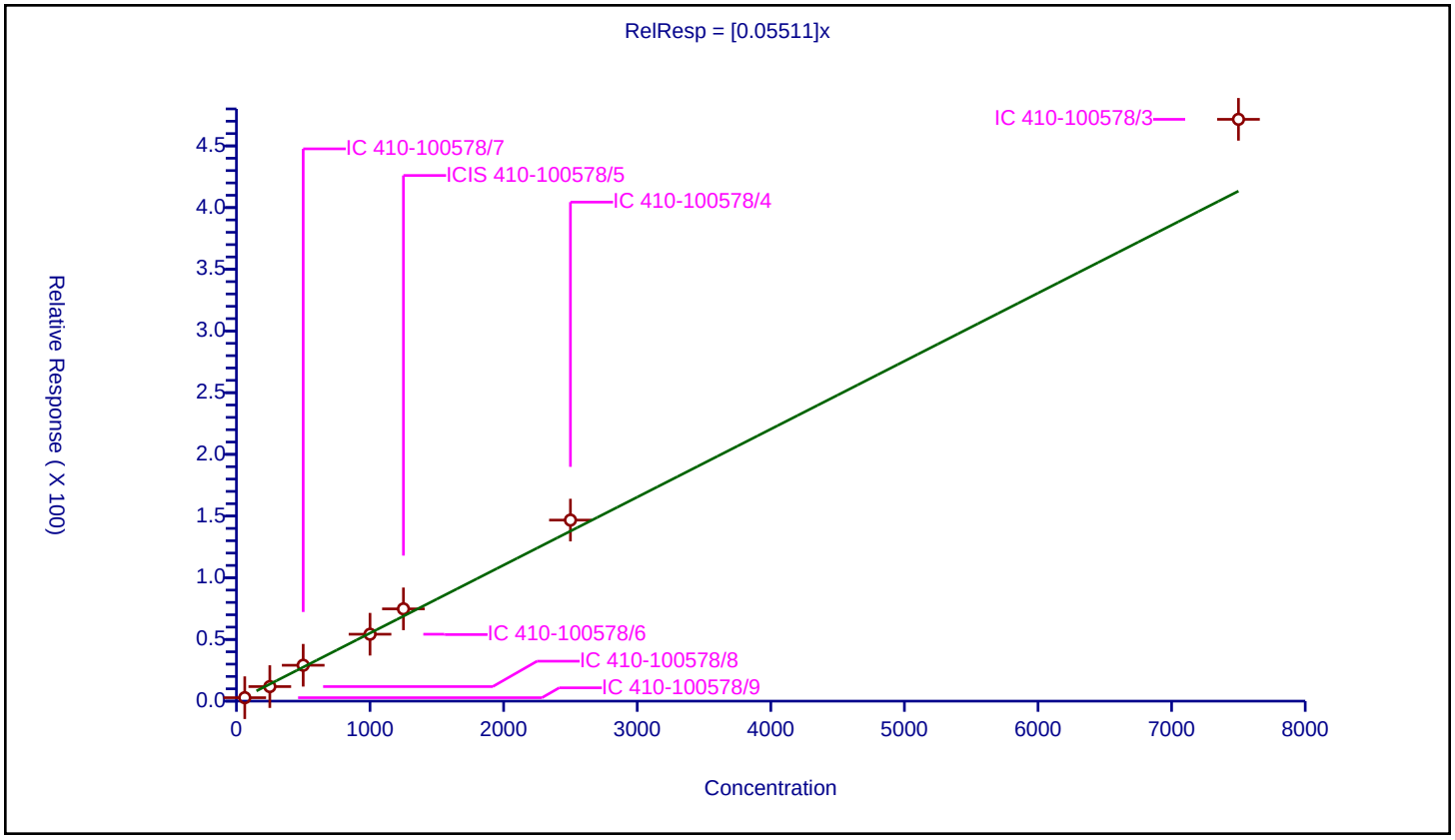
Curve Coefficients

Intercept:	0
Slope:	0.05511

Error Coefficients

Standard Error:	195000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	62.503749	2.79902	250.0	240084.0	0.044782	Y
2	IC 410-100578/8	250.014996	11.803294	250.0	241691.0	0.04721	Y
3	IC 410-100578/7	500.029992	29.095713	250.0	278761.0	0.058188	Y
4	IC 410-100578/6	1000.059984	54.237076	250.0	279910.0	0.054234	Y
5	ICIS 410-100578/5	1250.07498	74.780808	250.0	239744.0	0.059821	Y
6	IC 410-100578/4	2500.14996	146.738827	250.0	268615.0	0.058692	Y
7	IC 410-100578/3	7500.44988	471.527897	250.0	233360.0	0.062867	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

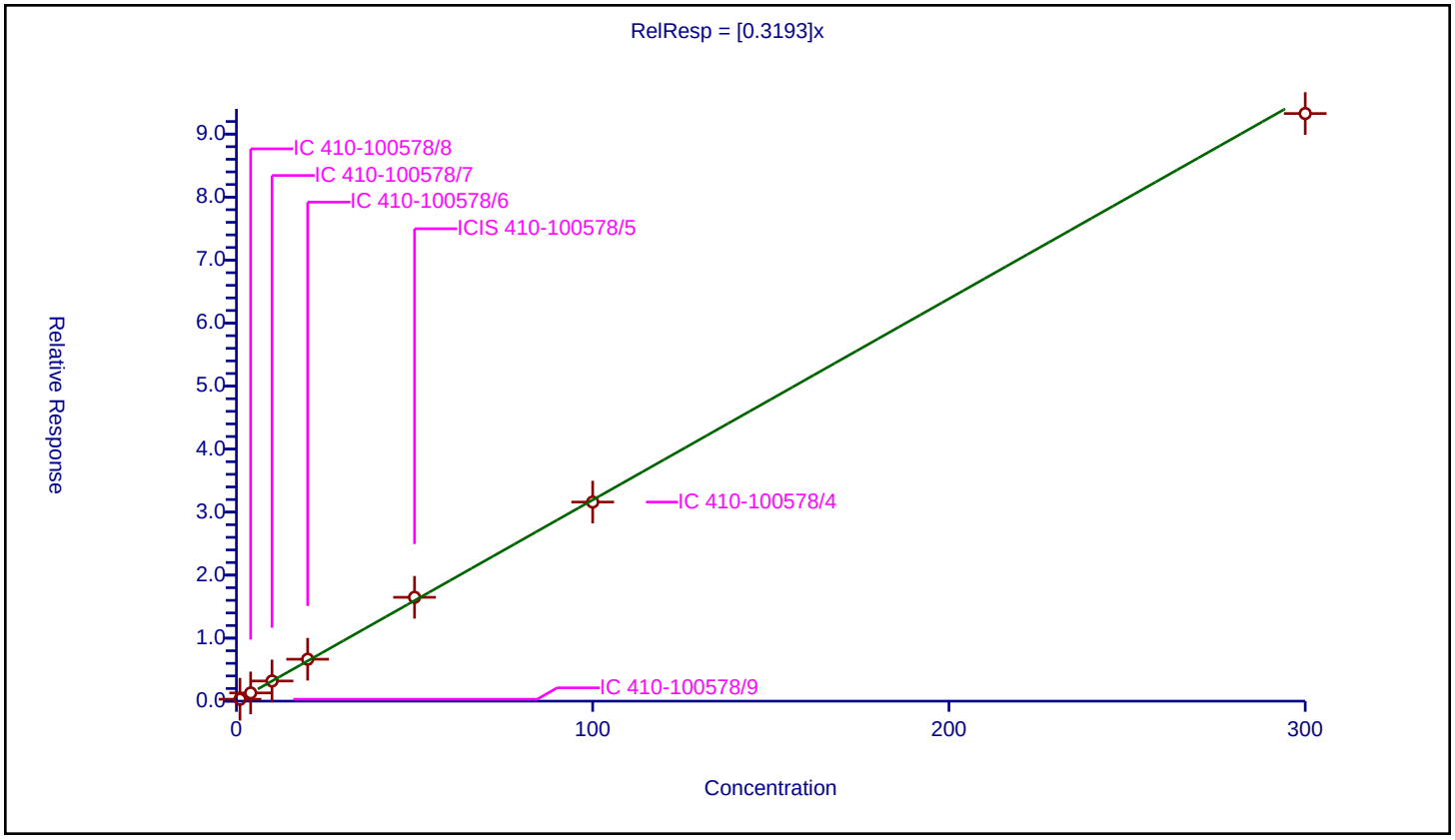
Curve Coefficients

Intercept:	0
Slope:	0.3193

Error Coefficients

Standard Error:	933000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.300169	50.0	1114374.0	0.300169	Y
2	IC 410-100578/8	4.0	1.303956	50.0	1125115.0	0.325989	Y
3	IC 410-100578/7	10.0	3.199811	50.0	1128973.0	0.319981	Y
4	IC 410-100578/6	20.0	6.653424	50.0	1137963.0	0.332671	Y
5	ICIS 410-100578/5	50.0	16.480205	50.0	1157613.0	0.329604	Y
6	IC 410-100578/4	100.0	31.595318	50.0	1175853.0	0.315953	Y
7	IC 410-100578/3	300.0	93.266509	50.0	1137315.0	0.310888	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

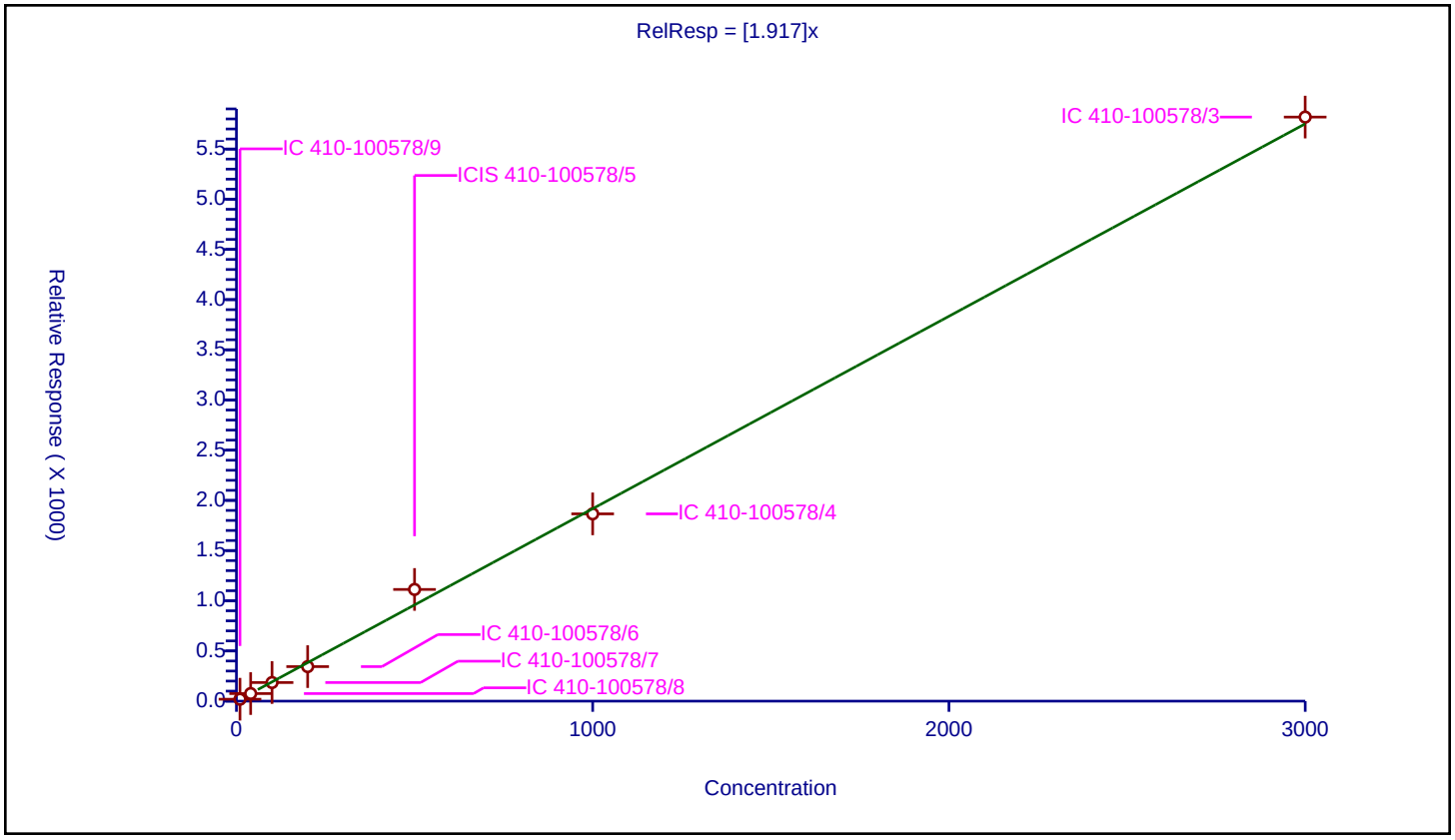
Curve Coefficients

Intercept:	0
Slope:	1.917

Error Coefficients

Standard Error:	2410000
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 410-100578/9	9.999544	19.300536	250.0	240084.0	1.930142	Y
2	IC 410-100578/8	39.998178	75.425854	250.0	241691.0	1.885732	Y
3	IC 410-100578/7	99.995444	185.323628	250.0	278761.0	1.853321	Y
4	IC 410-100578/6	199.990889	343.97217	250.0	279910.0	1.719939	Y
5	ICIS 410-100578/5	499.977222	1112.680609	250.0	239744.0	2.225463	Y
6	IC 410-100578/4	999.954444	1865.732554	250.0	268615.0	1.865818	Y
7	IC 410-100578/3	2999.863332	5818.48753	250.0	233360.0	1.939584	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

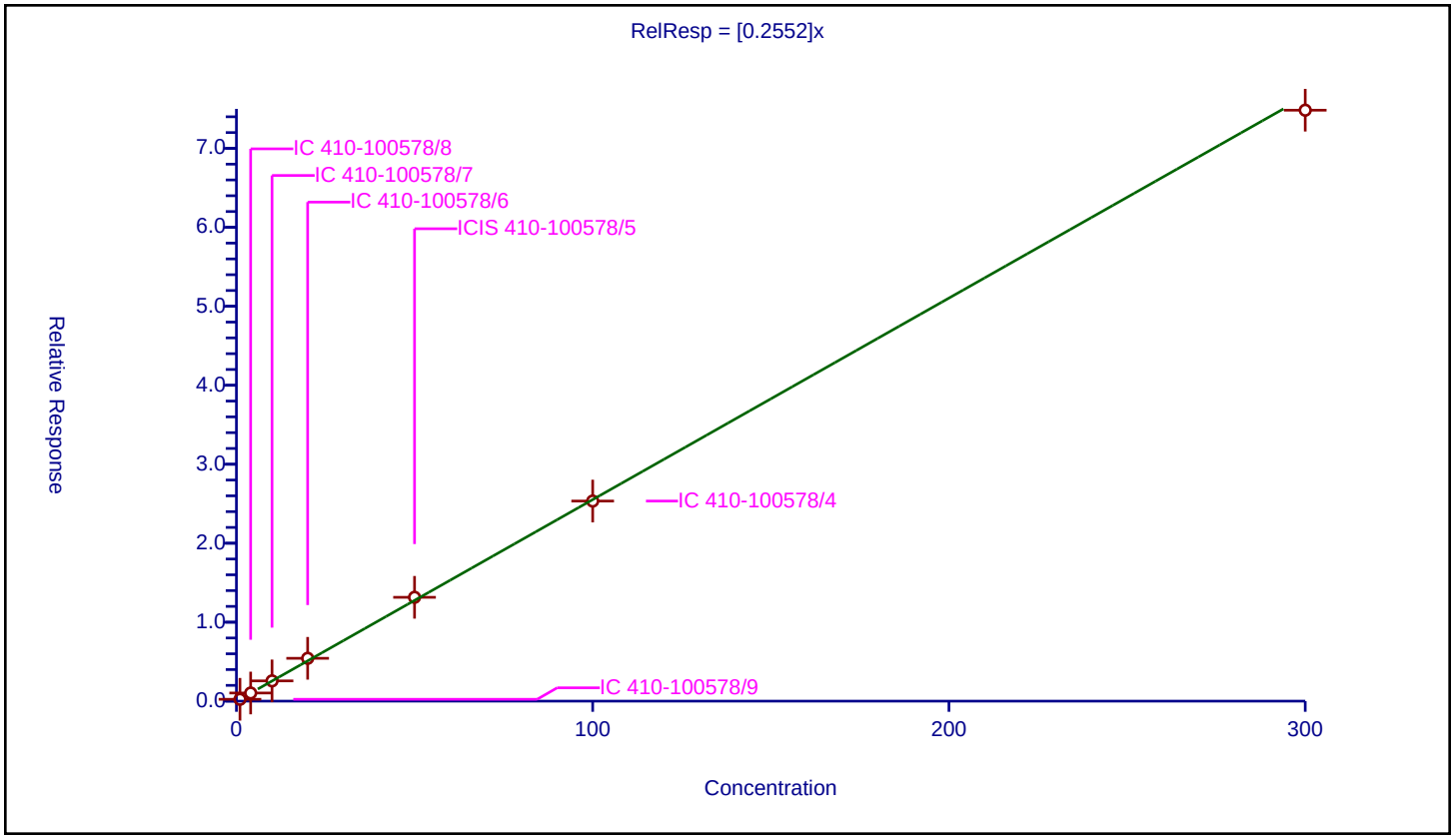
Curve Coefficients

Intercept:	0
Slope:	0.2552

Error Coefficients

Standard Error:	749000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.235783	50.0	1114374.0	0.235783	Y
2	IC 410-100578/8	4.0	1.028739	50.0	1125115.0	0.257185	Y
3	IC 410-100578/7	10.0	2.563967	50.0	1128973.0	0.256397	Y
4	IC 410-100578/6	20.0	5.424737	50.0	1137963.0	0.271237	Y
5	ICIS 410-100578/5	50.0	13.14917	50.0	1157613.0	0.262983	Y
6	IC 410-100578/4	100.0	25.337989	50.0	1175853.0	0.25338	Y
7	IC 410-100578/3	300.0	74.834413	50.0	1137315.0	0.249448	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

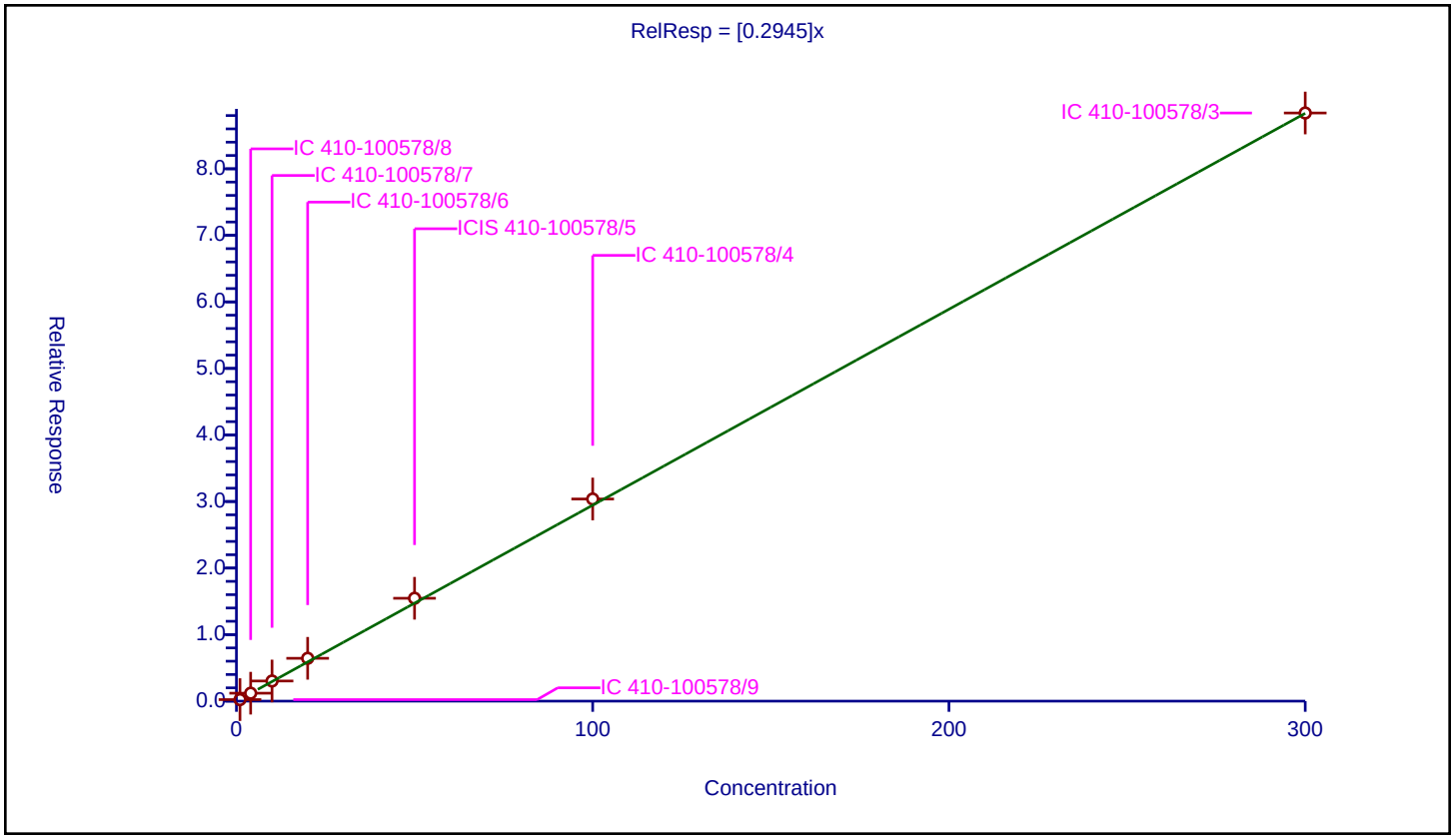
Curve Coefficients

Intercept:	0
Slope:	0.2945

Error Coefficients

Standard Error:	886000
Relative Standard Error:	10.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.230084	50.0	1114374.0	0.230084	Y
2	IC 410-100578/8	4.0	1.195389	50.0	1125115.0	0.298847	Y
3	IC 410-100578/7	10.0	3.027397	50.0	1128973.0	0.30274	Y
4	IC 410-100578/6	20.0	6.439533	50.0	1137963.0	0.321977	Y
5	ICIS 410-100578/5	50.0	15.45983	50.0	1157613.0	0.309197	Y
6	IC 410-100578/4	100.0	30.374673	50.0	1175853.0	0.303747	Y
7	IC 410-100578/3	300.0	88.38255	50.0	1137315.0	0.294609	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

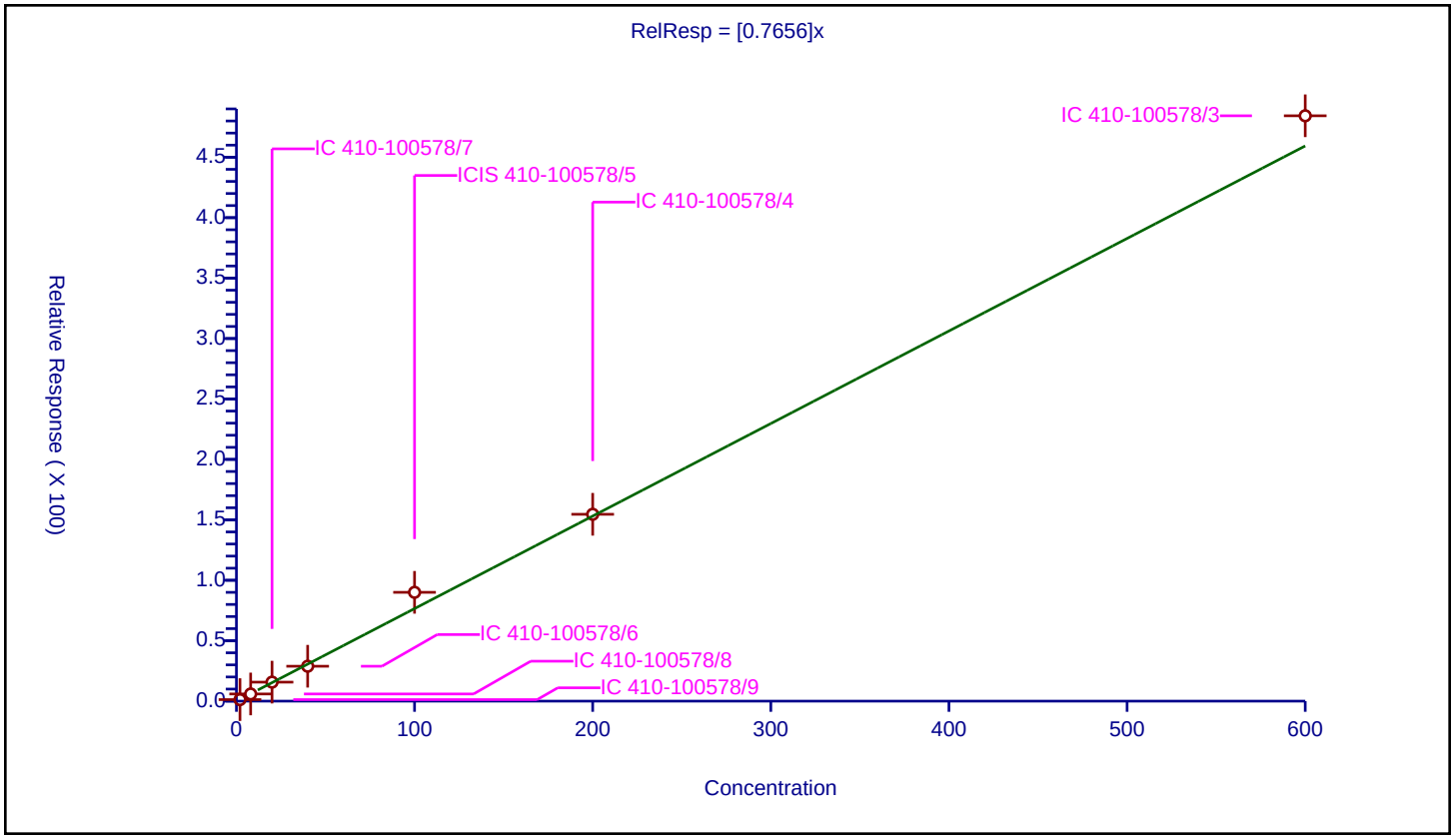
Curve Coefficients

Intercept:	0
Slope:	0.7656

Error Coefficients

Standard Error:	200000
Relative Standard Error:	10.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	1.257893	250.0	240084.0	0.628947	Y
2	IC 410-100578/8	8.0	5.936299	250.0	241691.0	0.742037	Y
3	IC 410-100578/7	20.0	15.716869	250.0	278761.0	0.785843	Y
4	IC 410-100578/6	40.0	28.878032	250.0	279910.0	0.721951	Y
5	ICIS 410-100578/5	100.0	90.024151	250.0	239744.0	0.900242	Y
6	IC 410-100578/4	200.0	154.602312	250.0	268615.0	0.773012	Y
7	IC 410-100578/3	600.0	484.28501	250.0	233360.0	0.807142	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

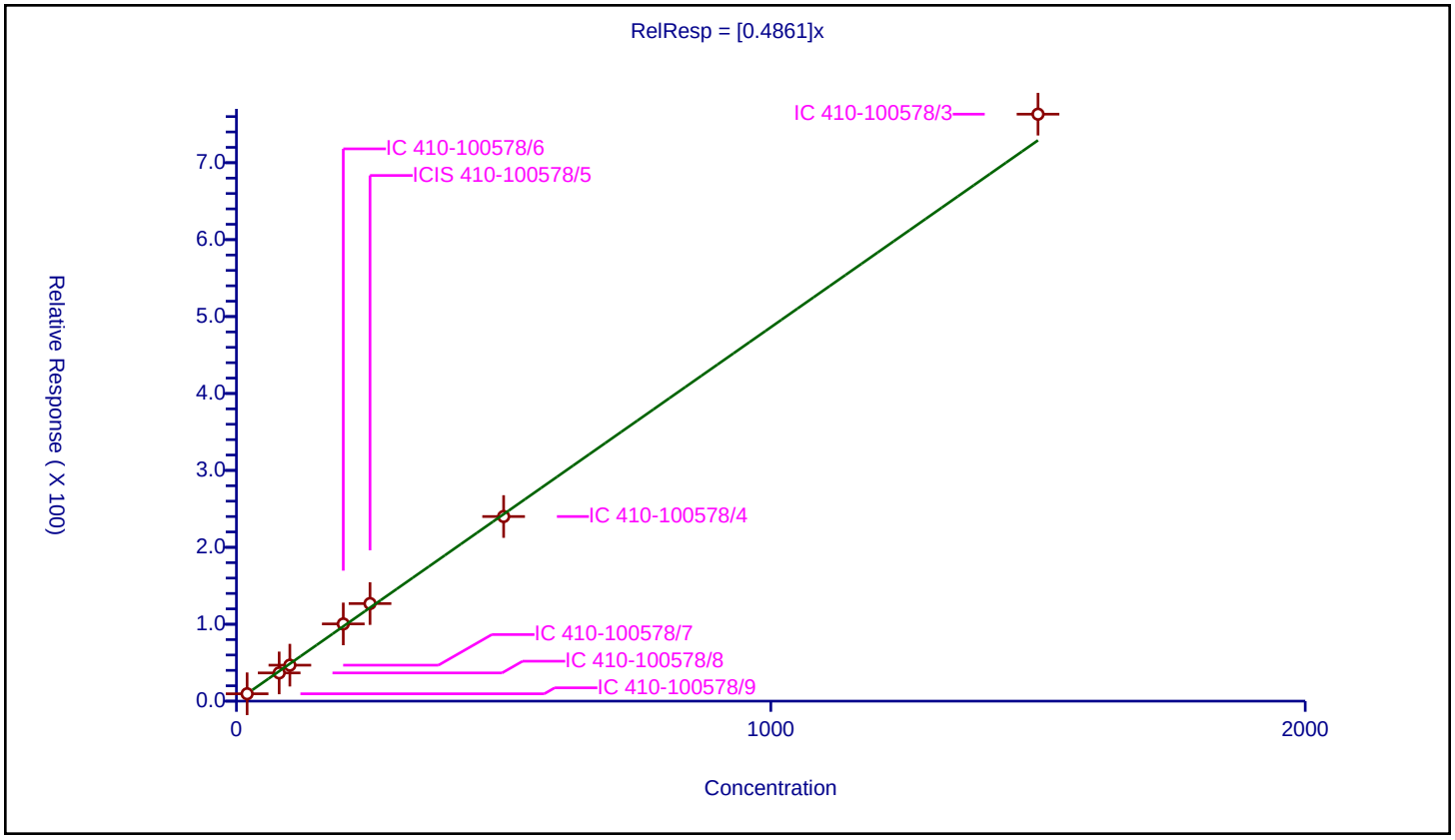
Curve Coefficients

Intercept:	0
Slope:	0.4861

Error Coefficients

Standard Error:	317000
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 410-100578/9	20.0	9.566443	250.0	240084.0	0.478322	Y
2	IC 410-100578/8	80.0	36.673894	250.0	241691.0	0.458424	Y
3	IC 410-100578/7	100.0	46.780217	250.0	278761.0	0.467802	Y
4	IC 410-100578/6	200.0	100.391197	250.0	279910.0	0.501956	Y
5	ICIS 410-100578/5	250.0	126.870745	250.0	239744.0	0.507483	Y
6	IC 410-100578/4	500.0	240.031272	250.0	268615.0	0.480063	Y
7	IC 410-100578/3	1500.0	763.137427	250.0	233360.0	0.508758	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

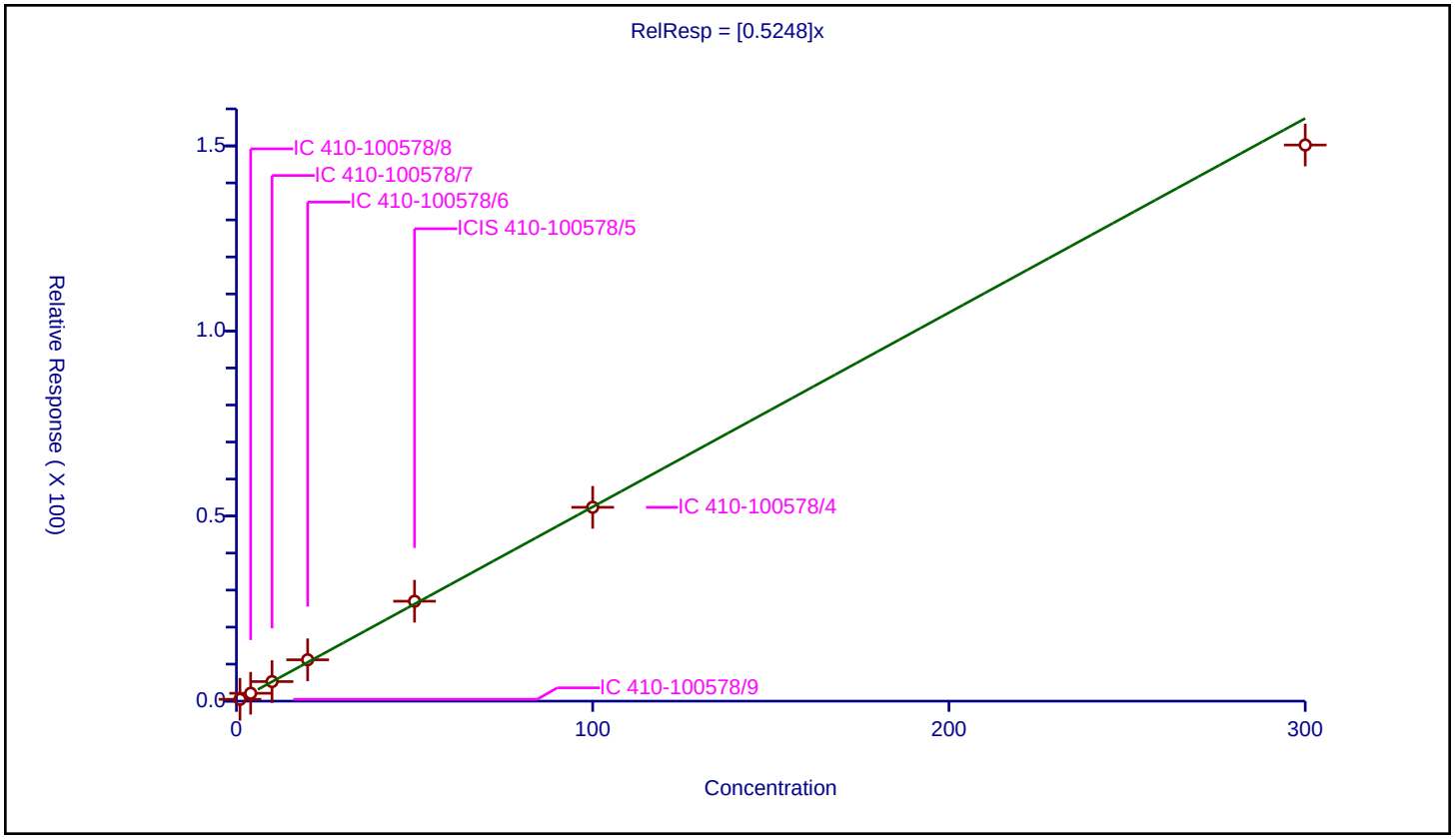
Curve Coefficients

Intercept:	0
Slope:	0.5248

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.489871	50.0	1114374.0	0.489871	Y
2	IC 410-100578/8	4.0	2.128494	50.0	1125115.0	0.532123	Y
3	IC 410-100578/7	10.0	5.2856	50.0	1128973.0	0.52856	Y
4	IC 410-100578/6	20.0	11.173474	50.0	1137963.0	0.558674	Y
5	ICIS 410-100578/5	50.0	26.993045	50.0	1157613.0	0.539861	Y
6	IC 410-100578/4	100.0	52.361945	50.0	1175853.0	0.523619	Y
7	IC 410-100578/3	300.0	150.242325	50.0	1137315.0	0.500808	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

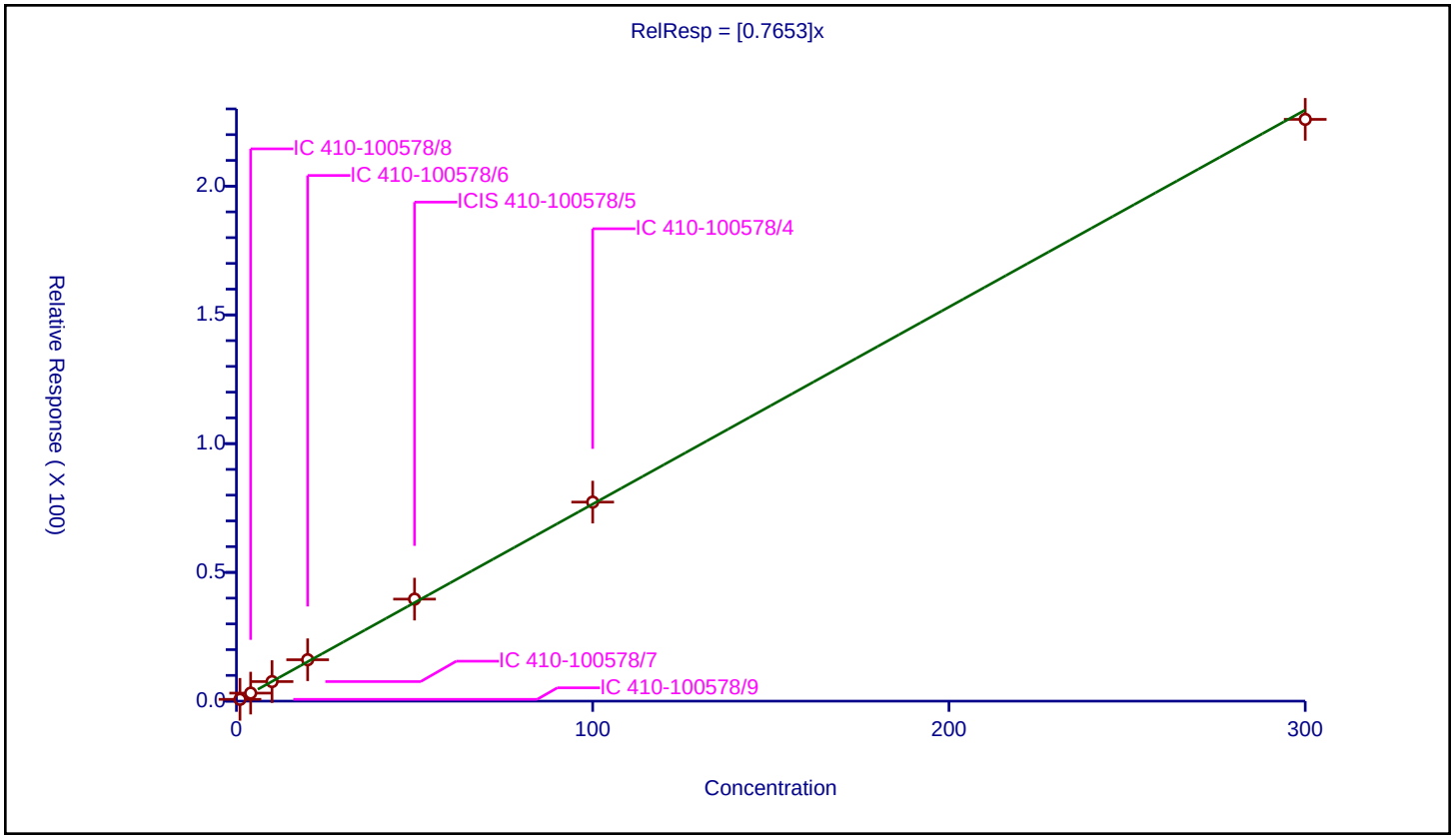
Curve Coefficients

Intercept:	0
Slope:	0.7653

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.695458	50.0	1114374.0	0.695458	Y
2	IC 410-100578/8	4.0	3.118481	50.0	1125115.0	0.77962	Y
3	IC 410-100578/7	10.0	7.592741	50.0	1128973.0	0.759274	Y
4	IC 410-100578/6	20.0	16.076357	50.0	1137963.0	0.803818	Y
5	ICIS 410-100578/5	50.0	39.624987	50.0	1157613.0	0.7925	Y
6	IC 410-100578/4	100.0	77.297928	50.0	1175853.0	0.772979	Y
7	IC 410-100578/3	300.0	225.932701	50.0	1137315.0	0.753109	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

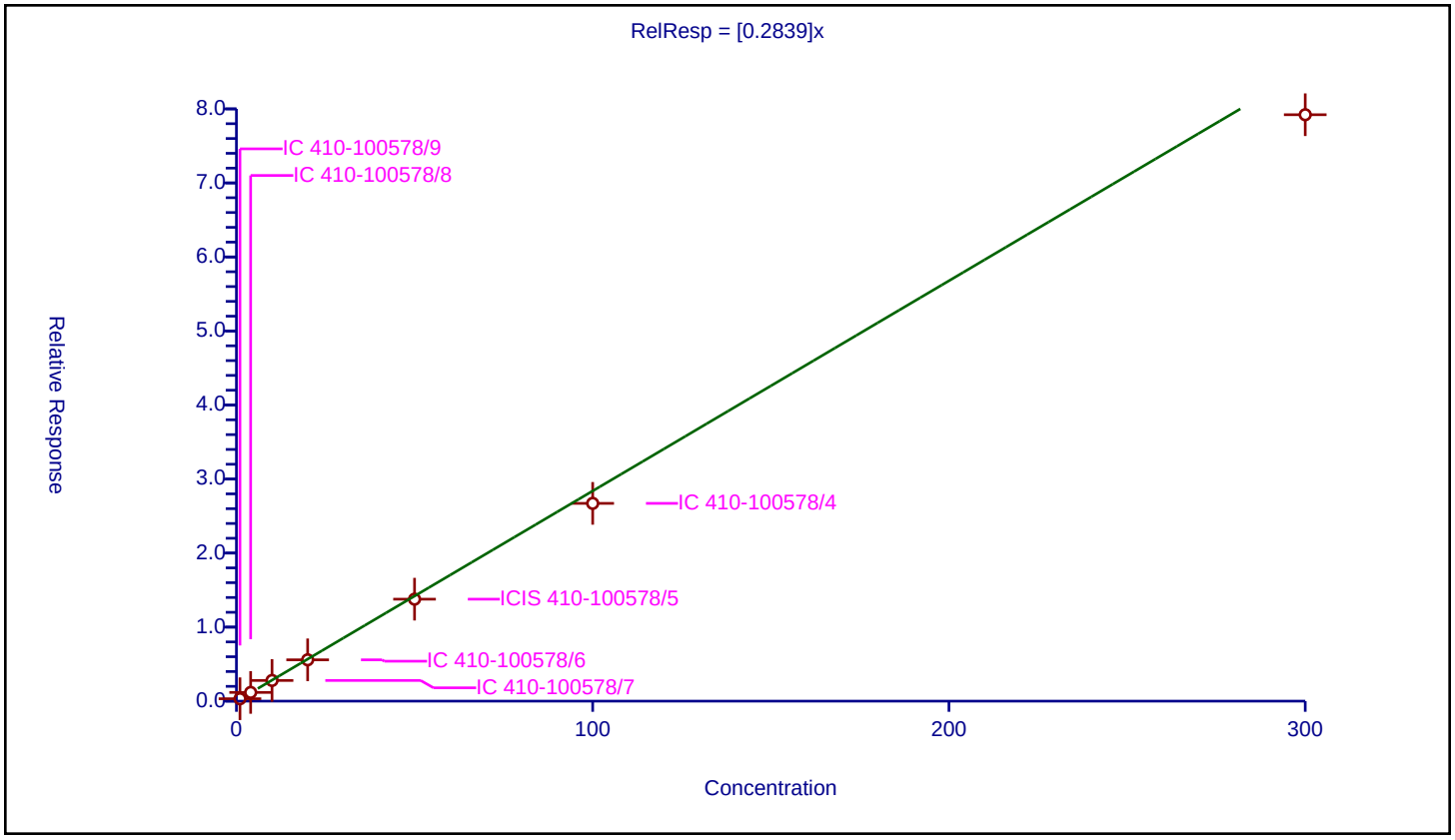
Curve Coefficients

Intercept:	0
Slope:	0.2839

Error Coefficients

Standard Error:	792000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.327179	50.0	1114374.0	0.327179	Y
2	IC 410-100578/8	4.0	1.179346	50.0	1125115.0	0.294837	Y
3	IC 410-100578/7	10.0	2.794354	50.0	1128973.0	0.279435	Y
4	IC 410-100578/6	20.0	5.583486	50.0	1137963.0	0.279174	Y
5	ICIS 410-100578/5	50.0	13.773688	50.0	1157613.0	0.275474	Y
6	IC 410-100578/4	100.0	26.715329	50.0	1175853.0	0.267153	Y
7	IC 410-100578/3	300.0	79.213586	50.0	1137315.0	0.264045	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

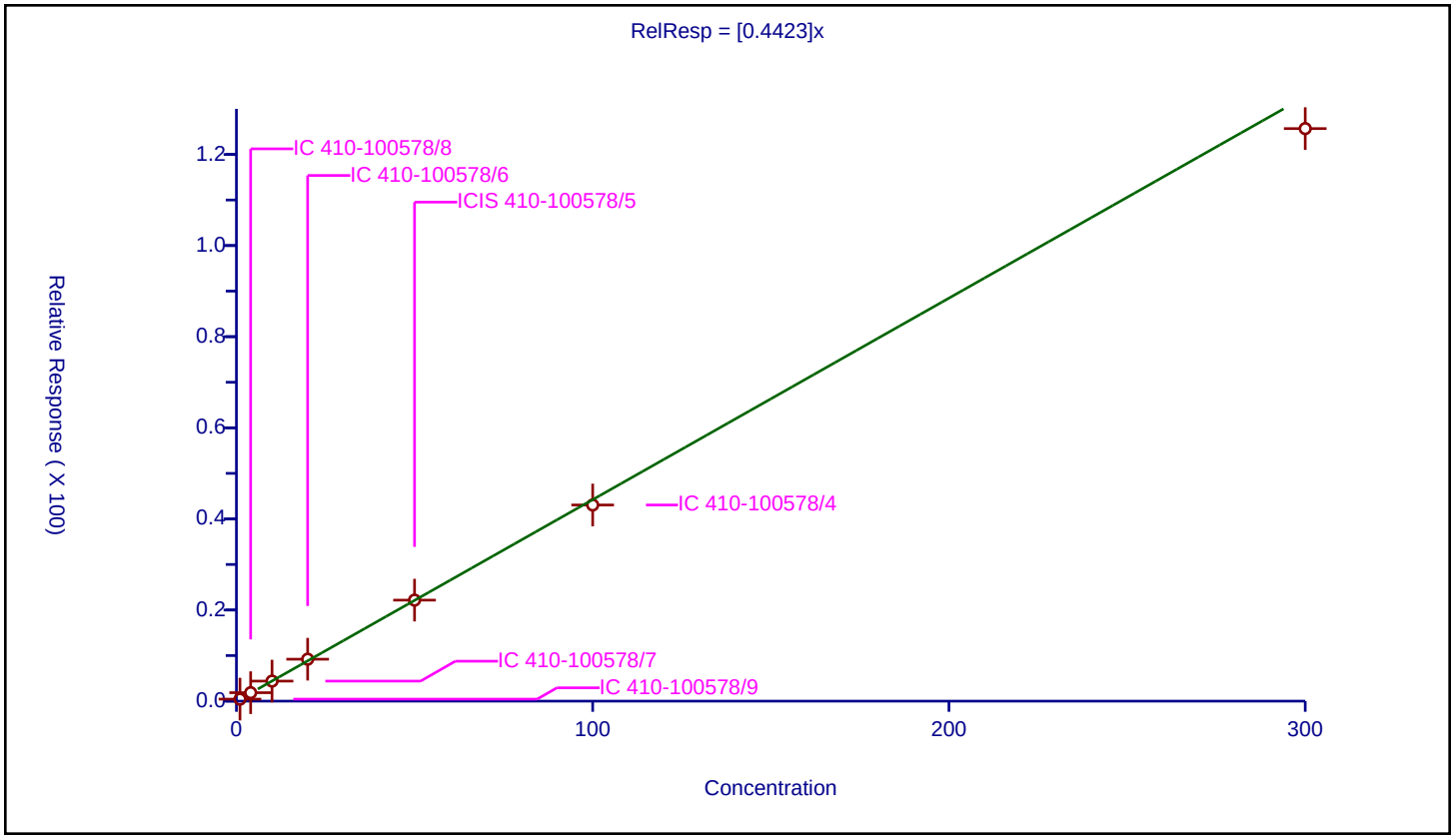
Curve Coefficients

Intercept:	0
Slope:	0.4423

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.439036	50.0	1114374.0	0.439036	Y
2	IC 410-100578/8	4.0	1.854788	50.0	1125115.0	0.463697	Y
3	IC 410-100578/7	10.0	4.4017	50.0	1128973.0	0.44017	Y
4	IC 410-100578/6	20.0	9.205704	50.0	1137963.0	0.460285	Y
5	ICIS 410-100578/5	50.0	22.174164	50.0	1157613.0	0.443483	Y
6	IC 410-100578/4	100.0	43.053851	50.0	1175853.0	0.430539	Y
7	IC 410-100578/3	300.0	125.675429	50.0	1137315.0	0.418918	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

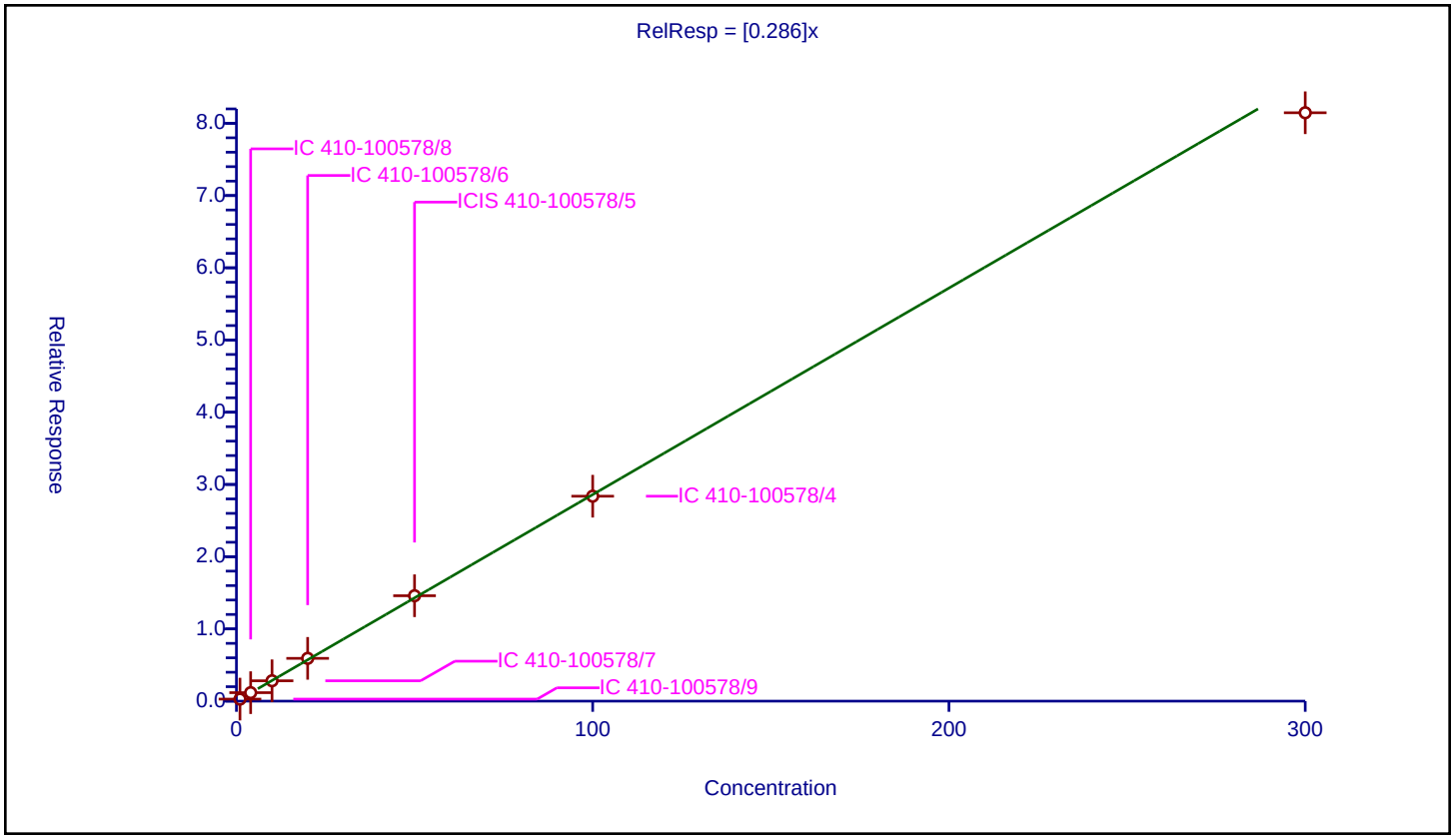
Curve Coefficients

Intercept:	0
Slope:	0.286

Error Coefficients

Standard Error:	818000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.282356	50.0	1114374.0	0.282356	Y
2	IC 410-100578/8	4.0	1.175969	50.0	1125115.0	0.293992	Y
3	IC 410-100578/7	10.0	2.818845	50.0	1128973.0	0.281885	Y
4	IC 410-100578/6	20.0	5.925852	50.0	1137963.0	0.296293	Y
5	ICIS 410-100578/5	50.0	14.594169	50.0	1157613.0	0.291883	Y
6	IC 410-100578/4	100.0	28.37489	50.0	1175853.0	0.283749	Y
7	IC 410-100578/3	300.0	81.466173	50.0	1137315.0	0.271554	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

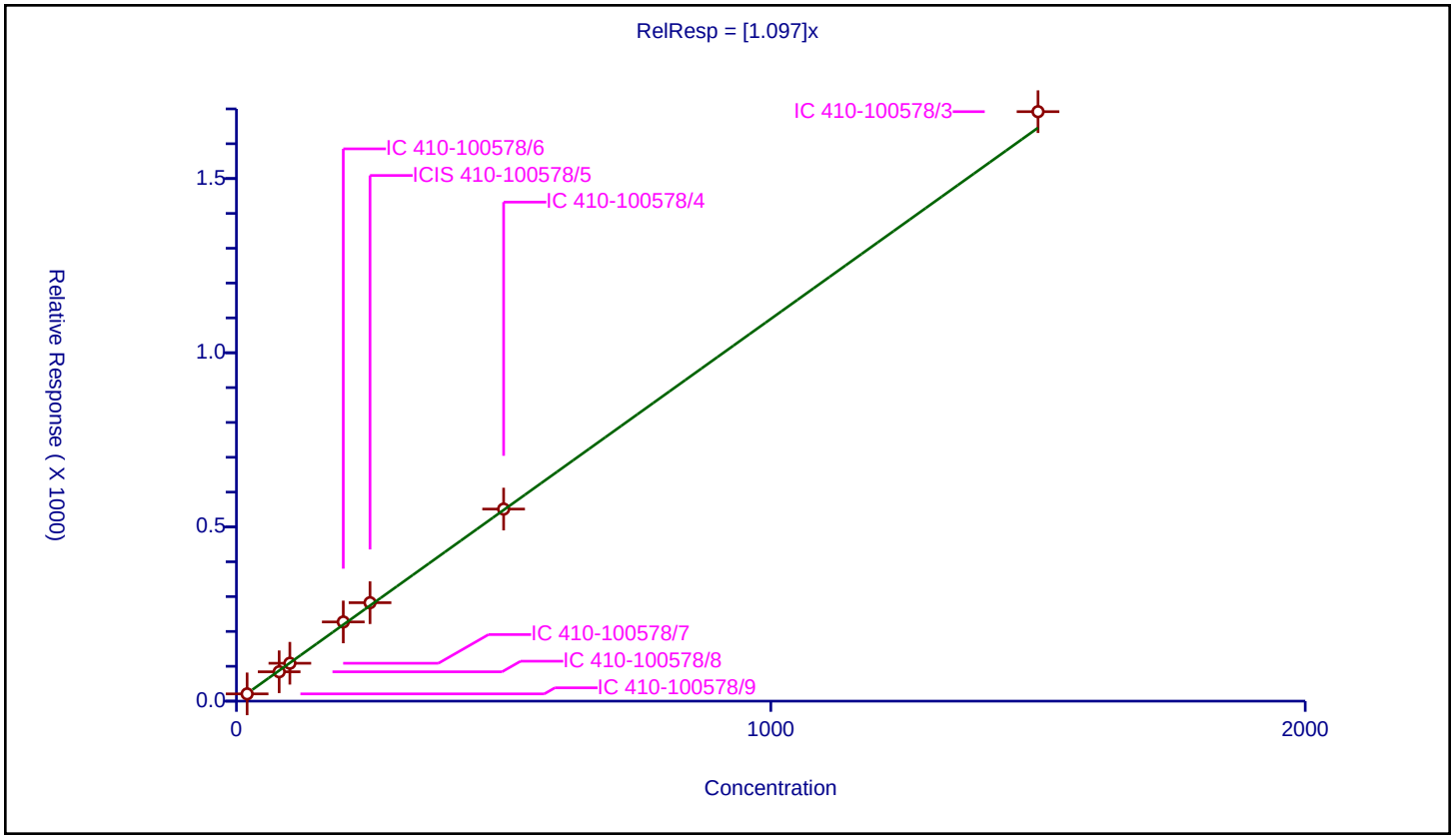
Curve Coefficients

Intercept:	0
Slope:	1.097

Error Coefficients

Standard Error:	707000
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 410-100578/9	20.0	20.834375	250.0	240084.0	1.041719	Y
2	IC 410-100578/8	80.0	84.251172	250.0	241691.0	1.05314	Y
3	IC 410-100578/7	100.0	108.773286	250.0	278761.0	1.087733	Y
4	IC 410-100578/6	200.0	227.339145	250.0	279910.0	1.136696	Y
5	ICIS 410-100578/5	250.0	282.575372	250.0	239744.0	1.130301	Y
6	IC 410-100578/4	500.0	551.294604	250.0	268615.0	1.102589	Y
7	IC 410-100578/3	1500.0	1692.043409	250.0	233360.0	1.128029	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

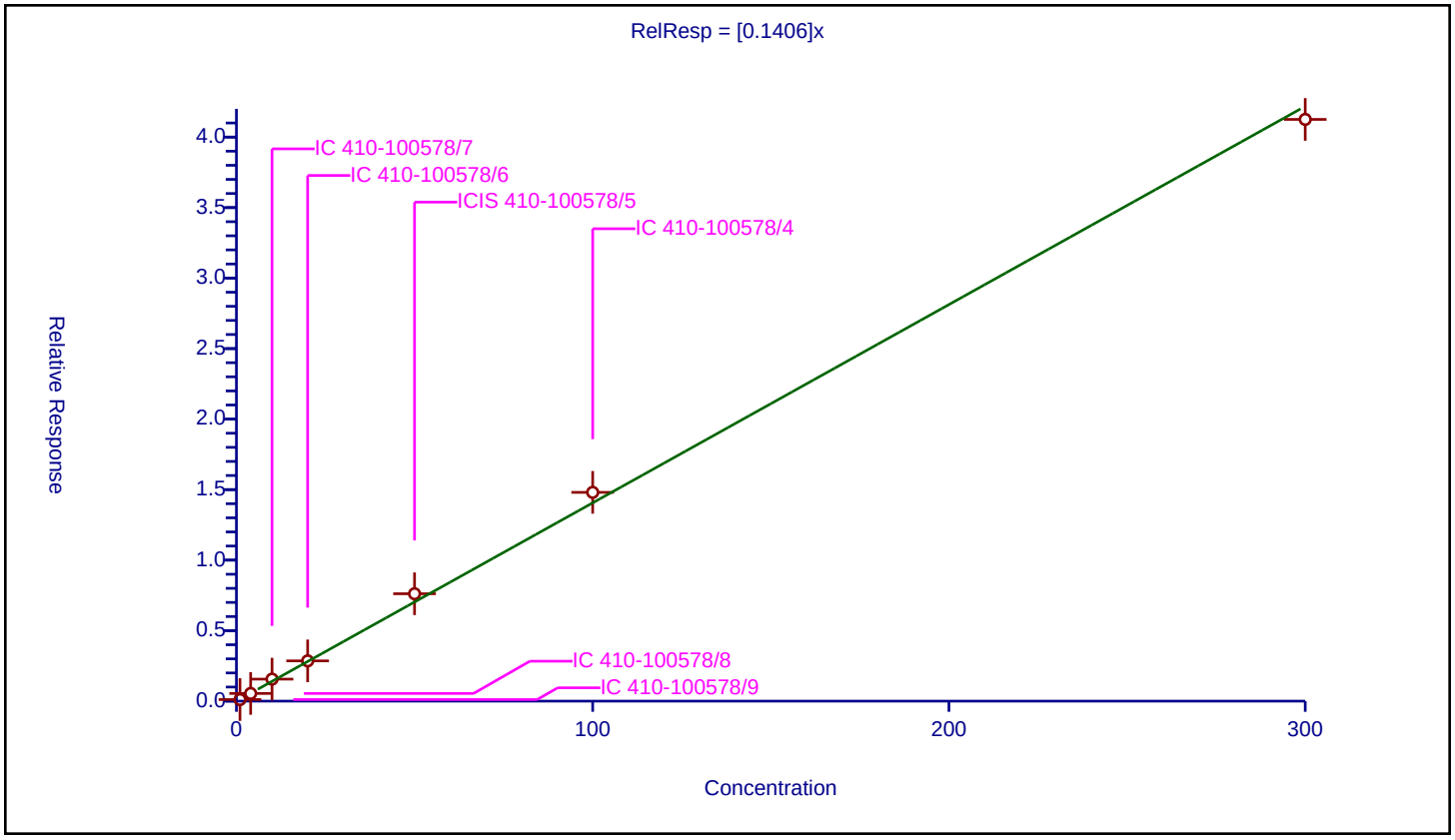
Curve Coefficients

Intercept:	0
Slope:	0.1406

Error Coefficients

Standard Error:	416000
Relative Standard Error:	10.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.111453	50.0	1114374.0	0.111453	Y
2	IC 410-100578/8	4.0	0.544078	50.0	1125115.0	0.136019	Y
3	IC 410-100578/7	10.0	1.561375	50.0	1128973.0	0.156137	Y
4	IC 410-100578/6	20.0	2.855585	50.0	1137963.0	0.142779	Y
5	ICIS 410-100578/5	50.0	7.616362	50.0	1157613.0	0.152327	Y
6	IC 410-100578/4	100.0	14.806017	50.0	1175853.0	0.14806	Y
7	IC 410-100578/3	300.0	41.254094	50.0	1137315.0	0.137514	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

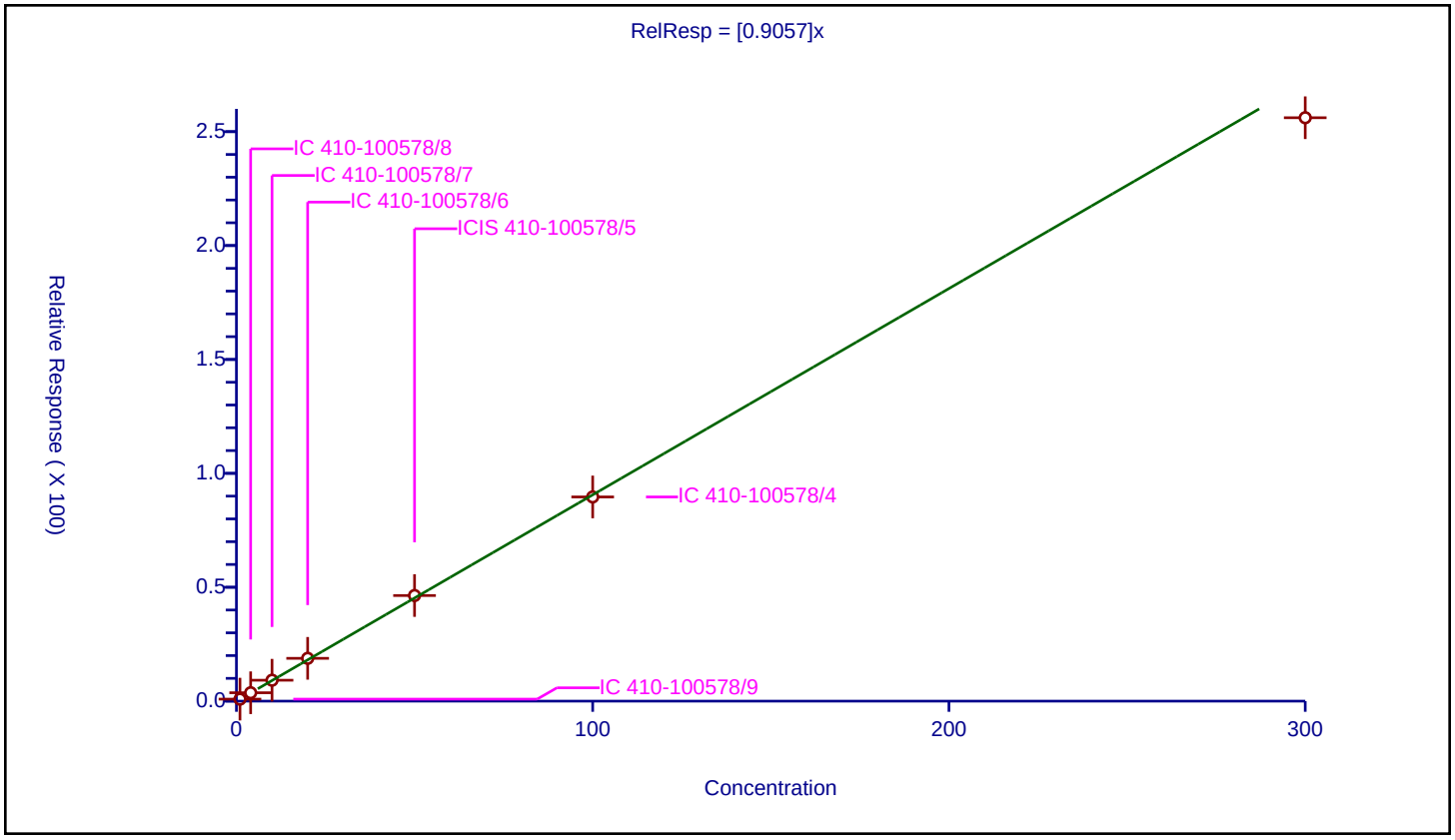
Curve Coefficients

Intercept:	0
Slope:	0.9057

Error Coefficients

Standard Error:	2570000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.882289	50.0	1114374.0	0.882289	Y
2	IC 410-100578/8	4.0	3.685934	50.0	1125115.0	0.921484	Y
3	IC 410-100578/7	10.0	9.185029	50.0	1128973.0	0.918503	Y
4	IC 410-100578/6	20.0	18.795954	50.0	1137963.0	0.939798	Y
5	ICIS 410-100578/5	50.0	46.369598	50.0	1157613.0	0.927392	Y
6	IC 410-100578/4	100.0	89.638033	50.0	1175853.0	0.89638	Y
7	IC 410-100578/3	300.0	256.118621	50.0	1137315.0	0.853729	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

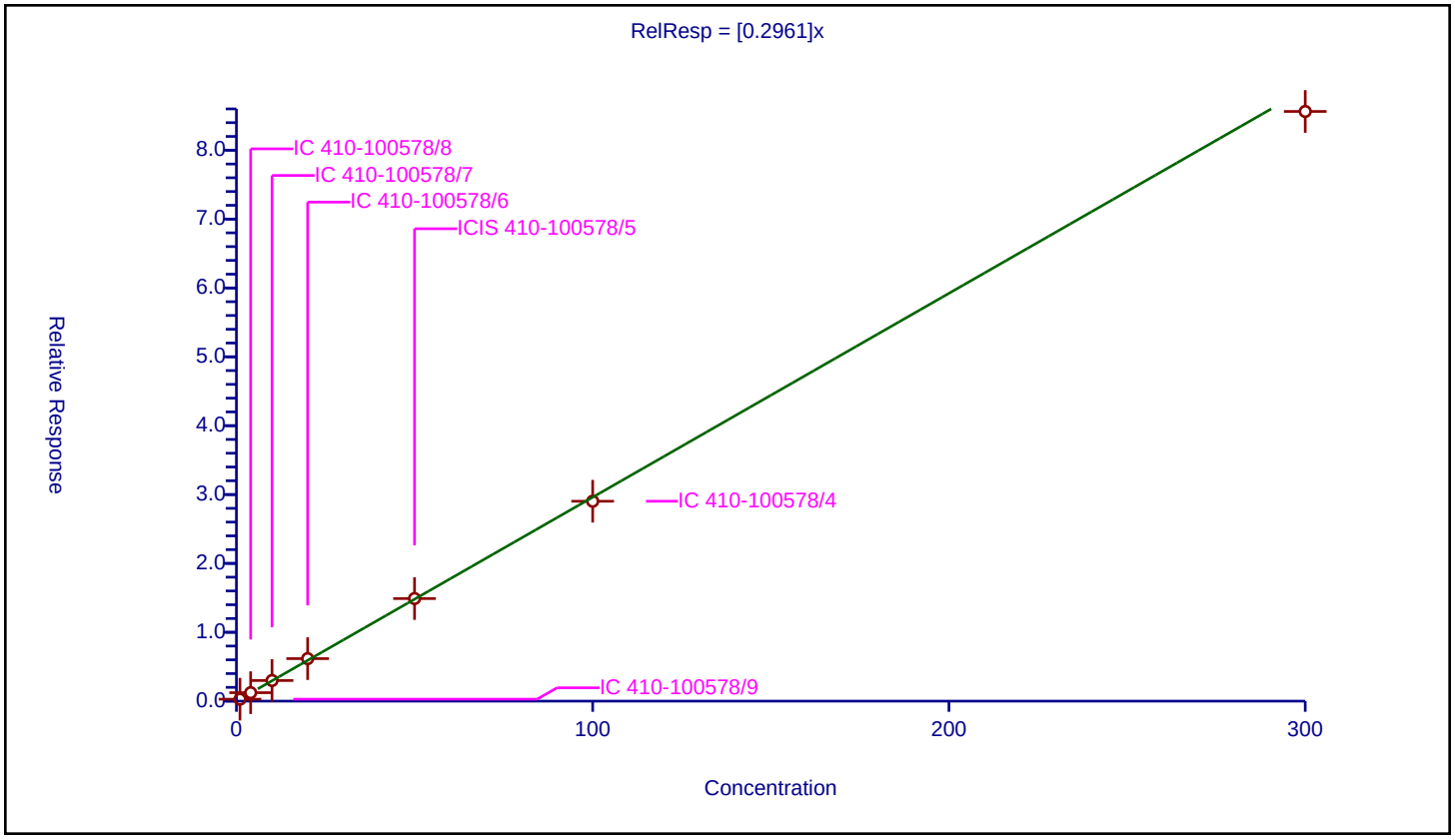
Curve Coefficients

Intercept:	0
Slope:	0.2961

Error Coefficients

Standard Error:	857000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.284195	50.0	1114374.0	0.284195	Y
2	IC 410-100578/8	4.0	1.22663	50.0	1125115.0	0.306658	Y
3	IC 410-100578/7	10.0	2.994757	50.0	1128973.0	0.299476	Y
4	IC 410-100578/6	20.0	6.172696	50.0	1137963.0	0.308635	Y
5	ICIS 410-100578/5	50.0	14.896688	50.0	1157613.0	0.297934	Y
6	IC 410-100578/4	100.0	29.026545	50.0	1175853.0	0.290265	Y
7	IC 410-100578/3	300.0	85.627904	50.0	1137315.0	0.285426	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

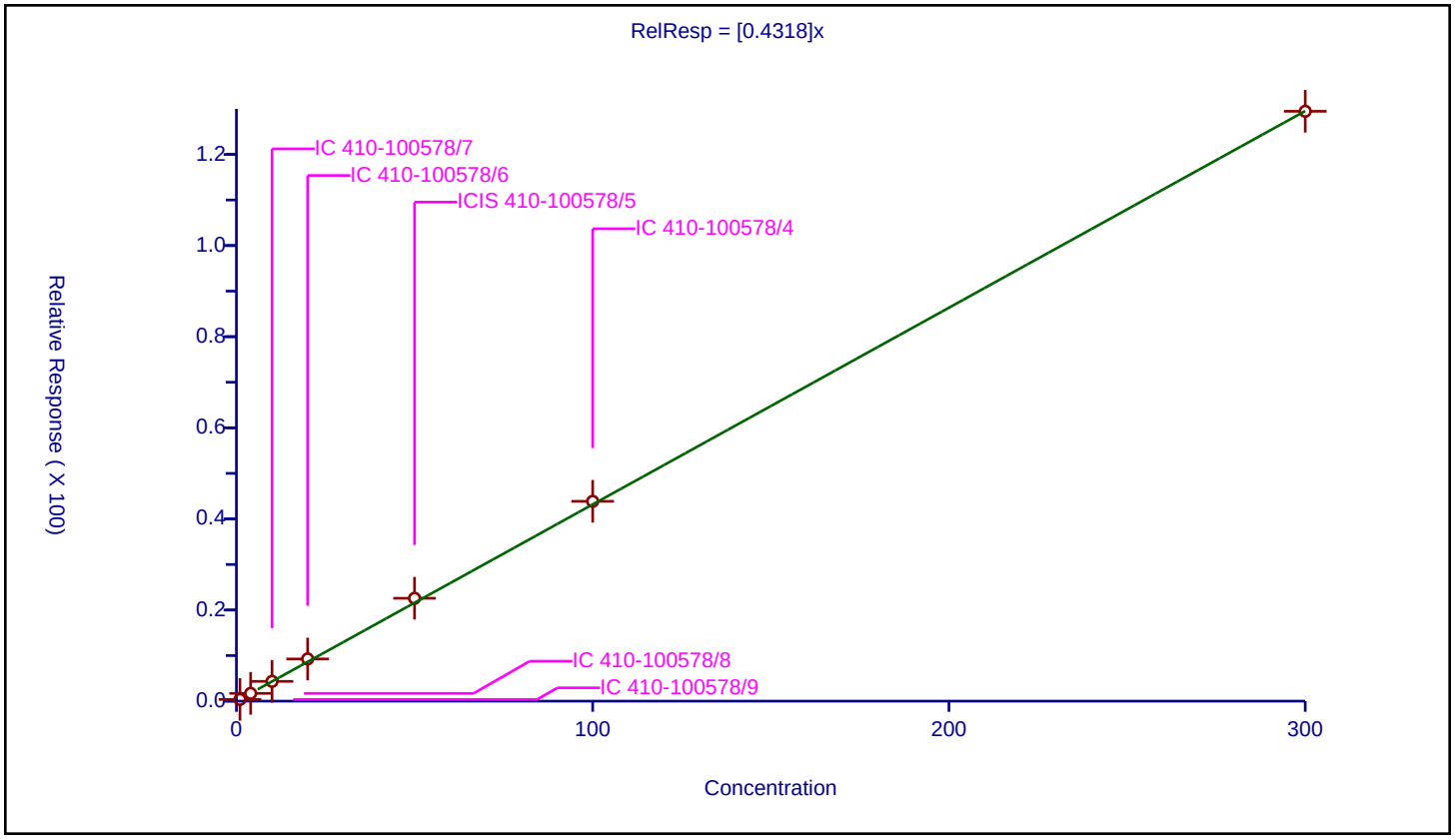
Curve Coefficients

Intercept:	0
Slope:	0.4318

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.378419	50.0	1114374.0	0.378419	Y
2	IC 410-100578/8	4.0	1.702137	50.0	1125115.0	0.425534	Y
3	IC 410-100578/7	10.0	4.339785	50.0	1128973.0	0.433978	Y
4	IC 410-100578/6	20.0	9.255178	50.0	1137963.0	0.462759	Y
5	ICIS 410-100578/5	50.0	22.581165	50.0	1157613.0	0.451623	Y
6	IC 410-100578/4	100.0	43.860712	50.0	1175853.0	0.438607	Y
7	IC 410-100578/3	300.0	129.471035	50.0	1137315.0	0.43157	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

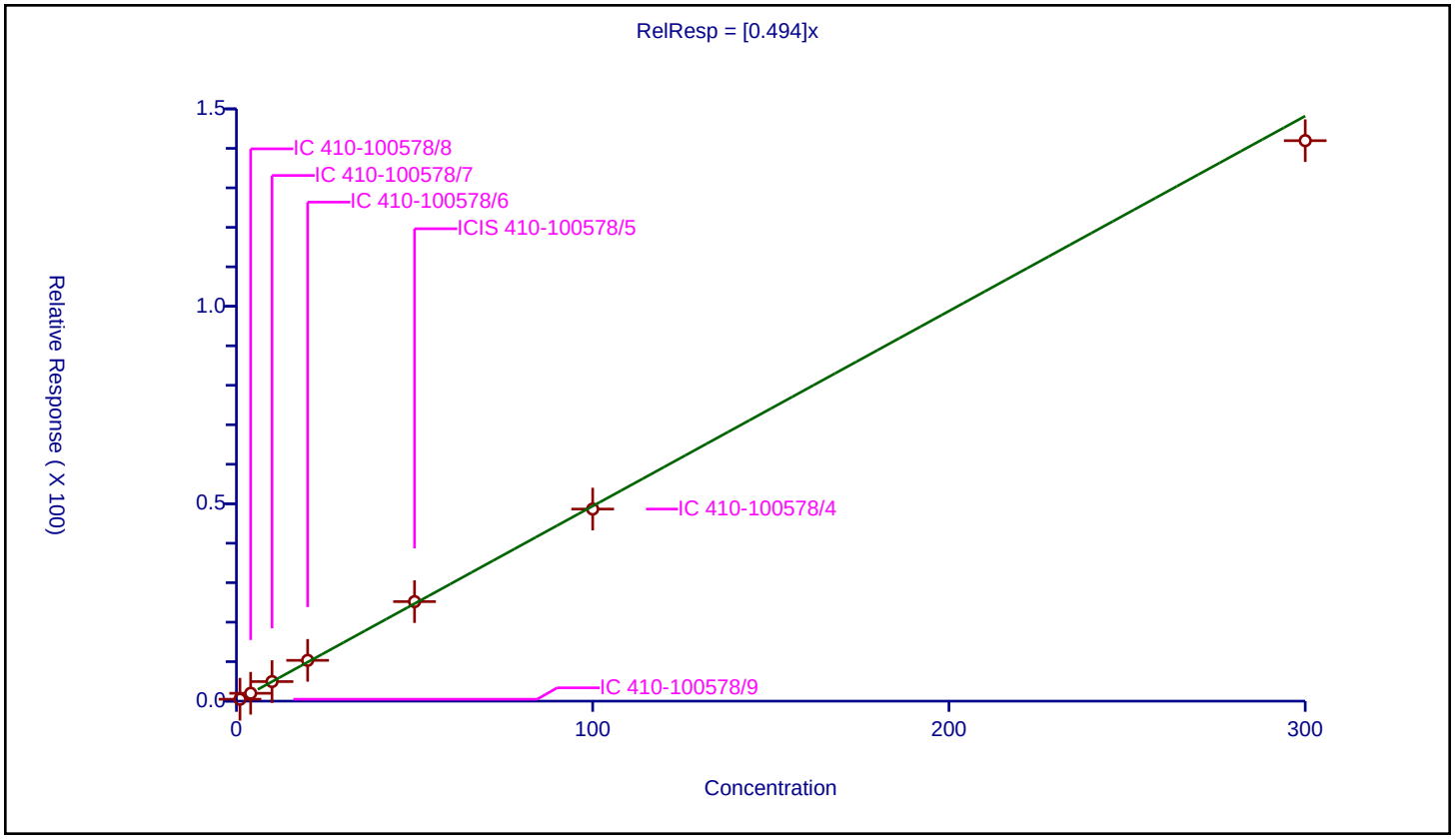
Curve Coefficients

Intercept:	0
Slope:	0.494

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.483231	50.0	1114374.0	0.483231	Y
2	IC 410-100578/8	4.0	1.993752	50.0	1125115.0	0.498438	Y
3	IC 410-100578/7	10.0	4.95654	50.0	1128973.0	0.495654	Y
4	IC 410-100578/6	20.0	10.330169	50.0	1137963.0	0.516508	Y
5	ICIS 410-100578/5	50.0	25.214515	50.0	1157613.0	0.50429	Y
6	IC 410-100578/4	100.0	48.648896	50.0	1175853.0	0.486489	Y
7	IC 410-100578/3	300.0	141.950735	50.0	1137315.0	0.473169	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

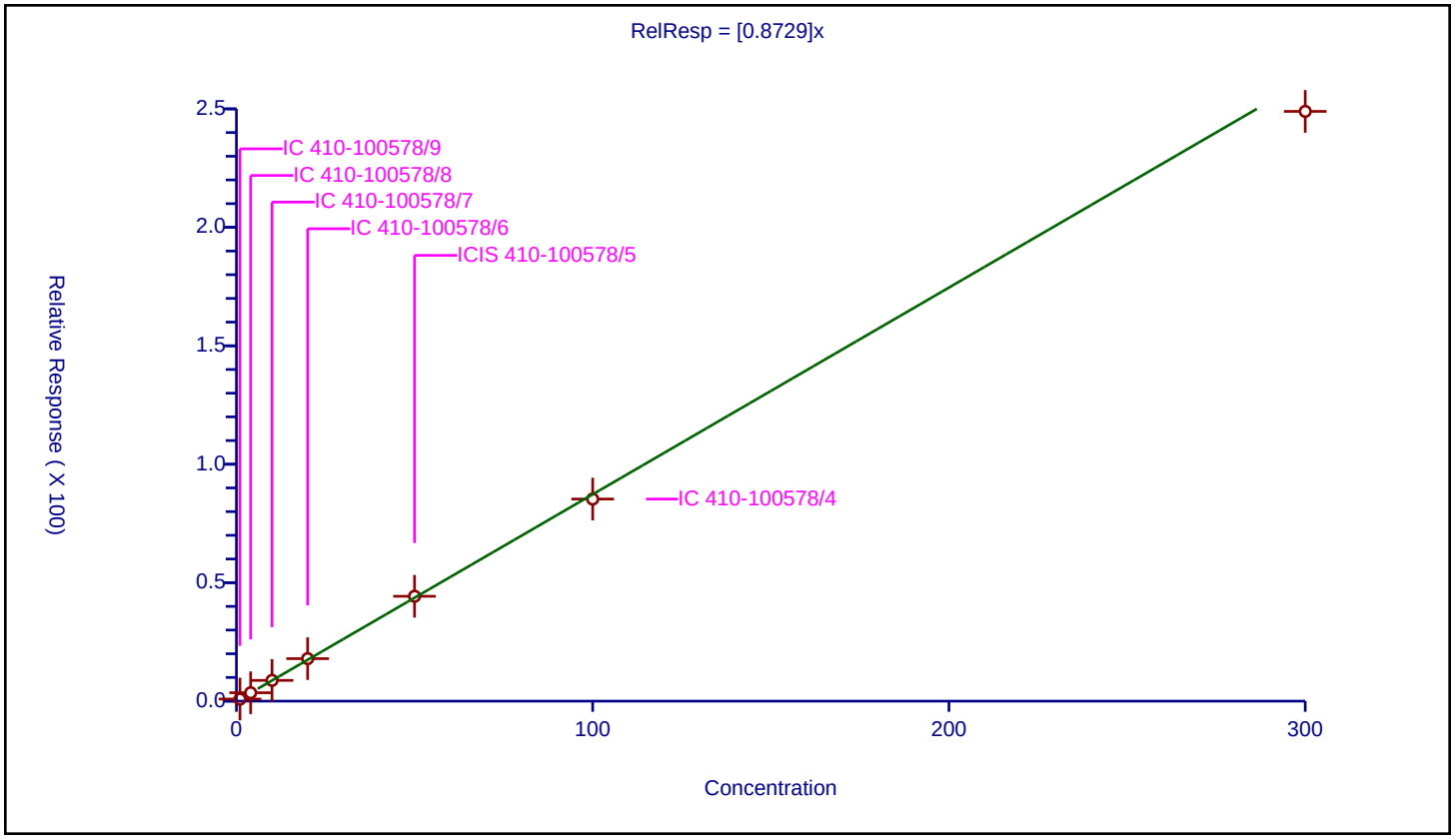
Curve Coefficients

Intercept:	0
Slope:	0.8729

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.881751	50.0	1114374.0	0.881751	Y
2	IC 410-100578/8	4.0	3.549104	50.0	1125115.0	0.887276	Y
3	IC 410-100578/7	10.0	8.758181	50.0	1128973.0	0.875818	Y
4	IC 410-100578/6	20.0	17.942191	50.0	1137963.0	0.89711	Y
5	ICIS 410-100578/5	50.0	44.264836	50.0	1157613.0	0.885297	Y
6	IC 410-100578/4	100.0	85.301522	50.0	1175853.0	0.853015	Y
7	IC 410-100578/3	300.0	248.948488	50.0	1137315.0	0.829828	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

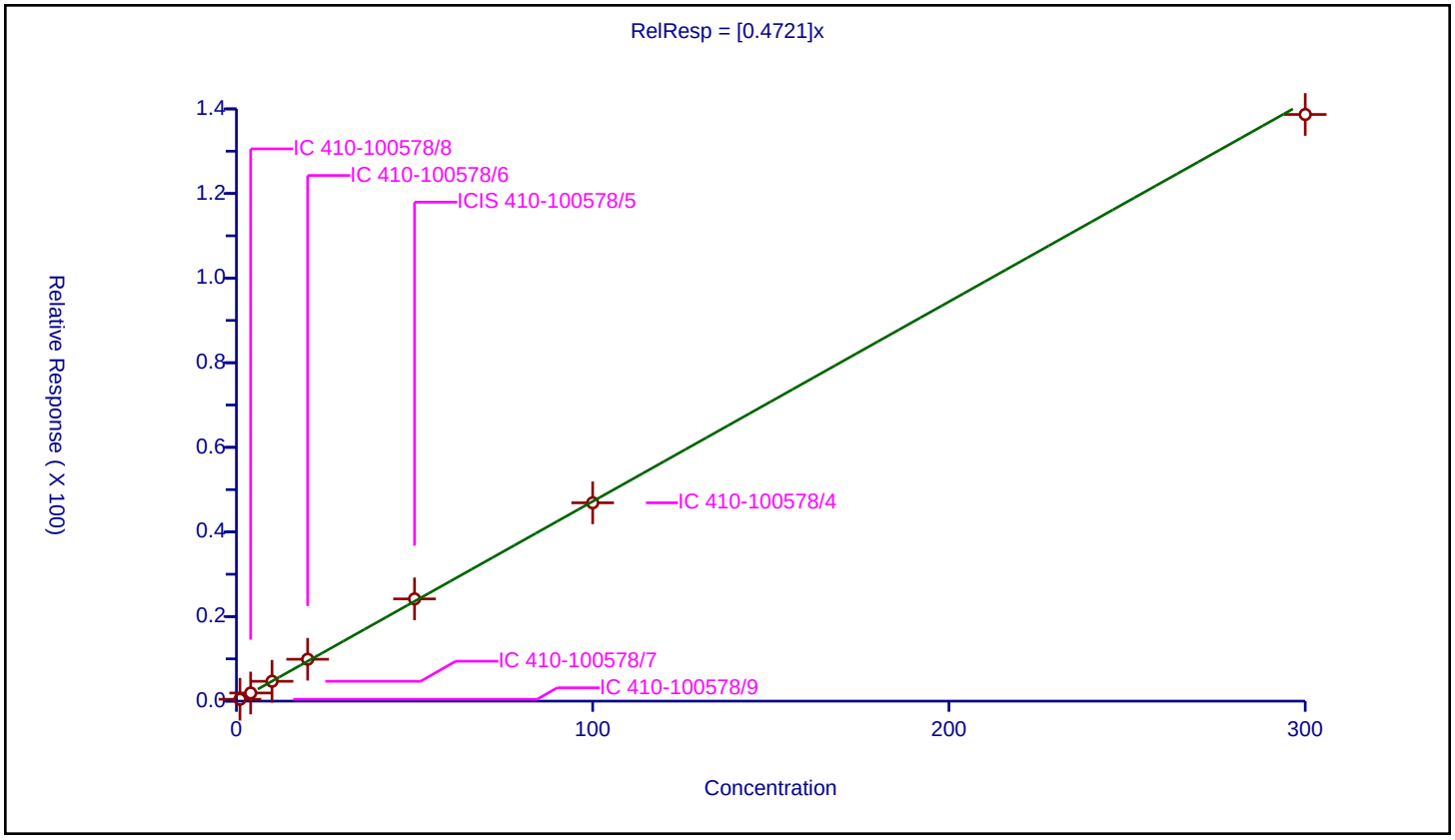
Curve Coefficients

Intercept:	0
Slope:	0.4721

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.444465	50.0	1114374.0	0.444465	Y
2	IC 410-100578/8	4.0	1.926203	50.0	1125115.0	0.481551	Y
3	IC 410-100578/7	10.0	4.691698	50.0	1128973.0	0.46917	Y
4	IC 410-100578/6	20.0	9.901289	50.0	1137963.0	0.495064	Y
5	ICIS 410-100578/5	50.0	24.166194	50.0	1157613.0	0.483324	Y
6	IC 410-100578/4	100.0	46.884347	50.0	1175853.0	0.468843	Y
7	IC 410-100578/3	300.0	138.683302	50.0	1137315.0	0.462278	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

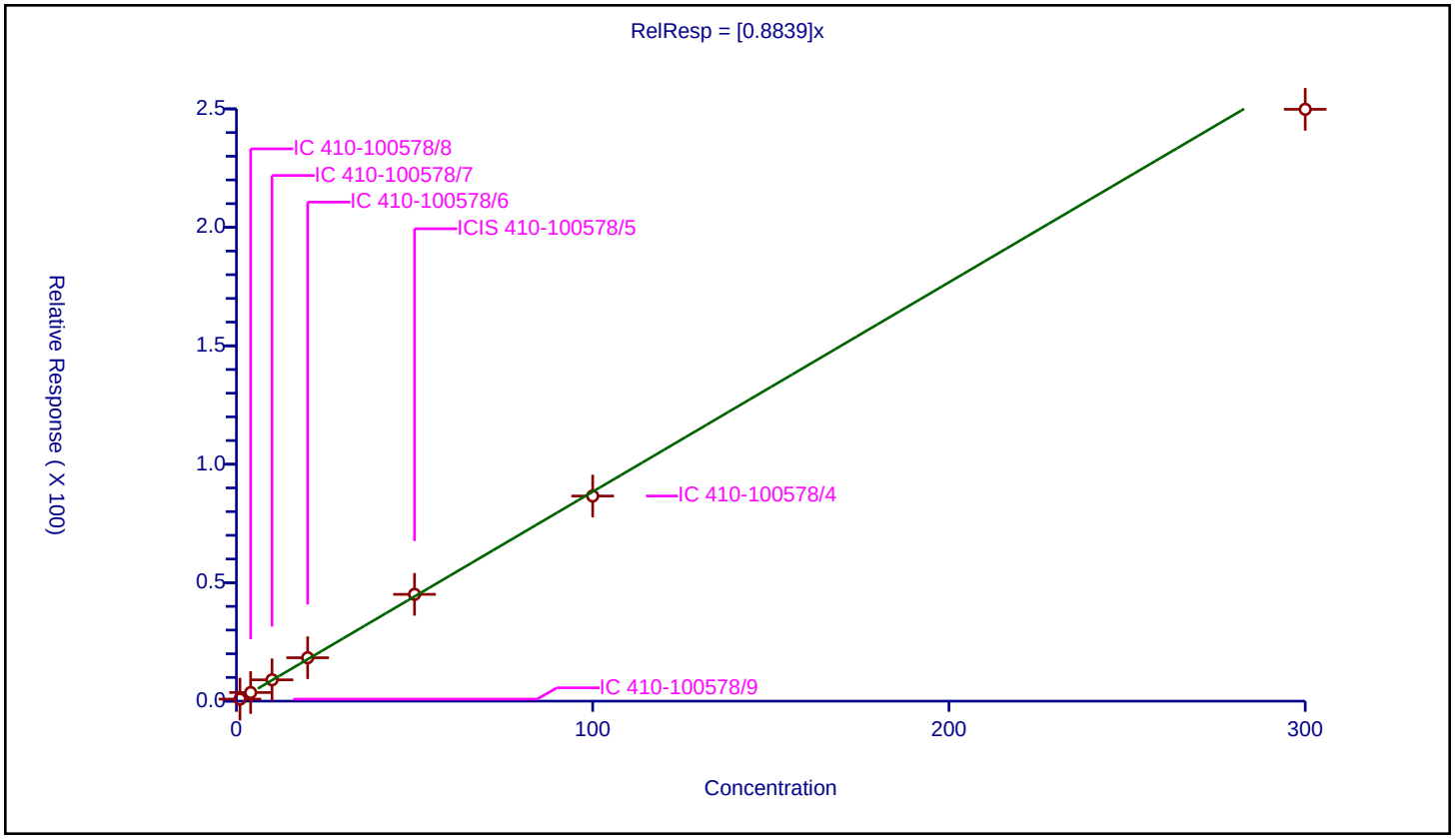
Curve Coefficients

Intercept:	0
Slope:	0.8839

Error Coefficients

Standard Error:	2510000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.861964	50.0	1114374.0	0.861964	Y
2	IC 410-100578/8	4.0	3.639539	50.0	1125115.0	0.909885	Y
3	IC 410-100578/7	10.0	8.996274	50.0	1128973.0	0.899627	Y
4	IC 410-100578/6	20.0	18.315534	50.0	1137963.0	0.915777	Y
5	ICIS 410-100578/5	50.0	45.072835	50.0	1157613.0	0.901457	Y
6	IC 410-100578/4	100.0	86.588375	50.0	1175853.0	0.865884	Y
7	IC 410-100578/3	300.0	249.819355	50.0	1137315.0	0.832731	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

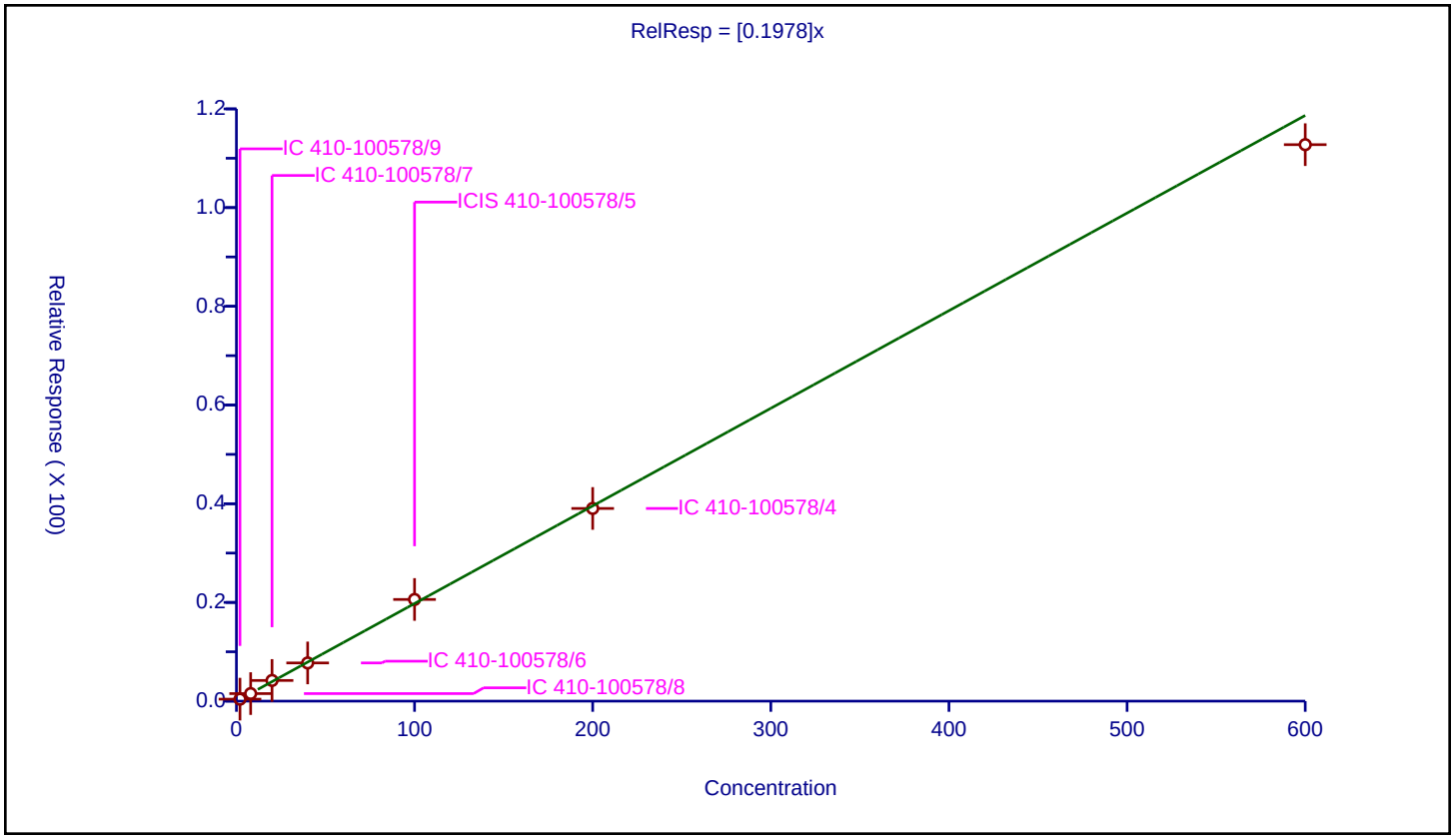
Curve Coefficients

Intercept:	0
Slope:	0.1978

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	0.402154	50.0	1114374.0	0.201077	Y
2	IC 410-100578/8	8.0	1.530155	50.0	1125115.0	0.191269	Y
3	IC 410-100578/7	20.0	4.190844	50.0	1128973.0	0.209542	Y
4	IC 410-100578/6	40.0	7.738608	50.0	1137963.0	0.193465	Y
5	ICIS 410-100578/5	100.0	20.60179	50.0	1157613.0	0.206018	Y
6	IC 410-100578/4	200.0	39.04204	50.0	1175853.0	0.19521	Y
7	IC 410-100578/3	600.0	112.752008	50.0	1137315.0	0.18792	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

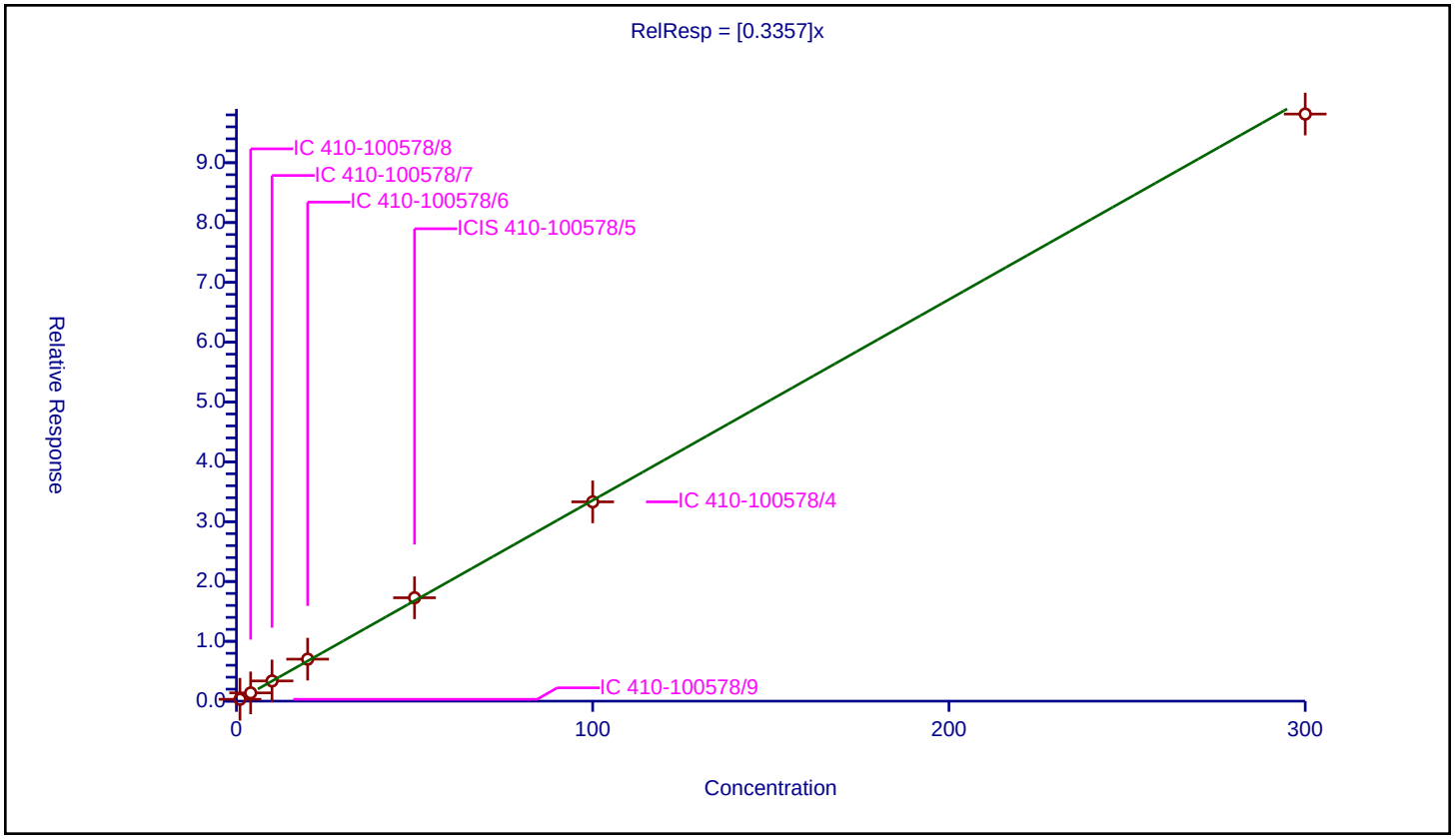
Curve Coefficients

Intercept:	0
Slope:	0.3357

Error Coefficients

Standard Error:	982000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.309995	50.0	1114374.0	0.309995	Y
2	IC 410-100578/8	4.0	1.38177	50.0	1125115.0	0.345442	Y
3	IC 410-100578/7	10.0	3.375147	50.0	1128973.0	0.337515	Y
4	IC 410-100578/6	20.0	7.018023	50.0	1137963.0	0.350901	Y
5	ICIS 410-100578/5	50.0	17.280516	50.0	1157613.0	0.34561	Y
6	IC 410-100578/4	100.0	33.312582	50.0	1175853.0	0.333126	Y
7	IC 410-100578/3	300.0	98.134202	50.0	1137315.0	0.327114	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

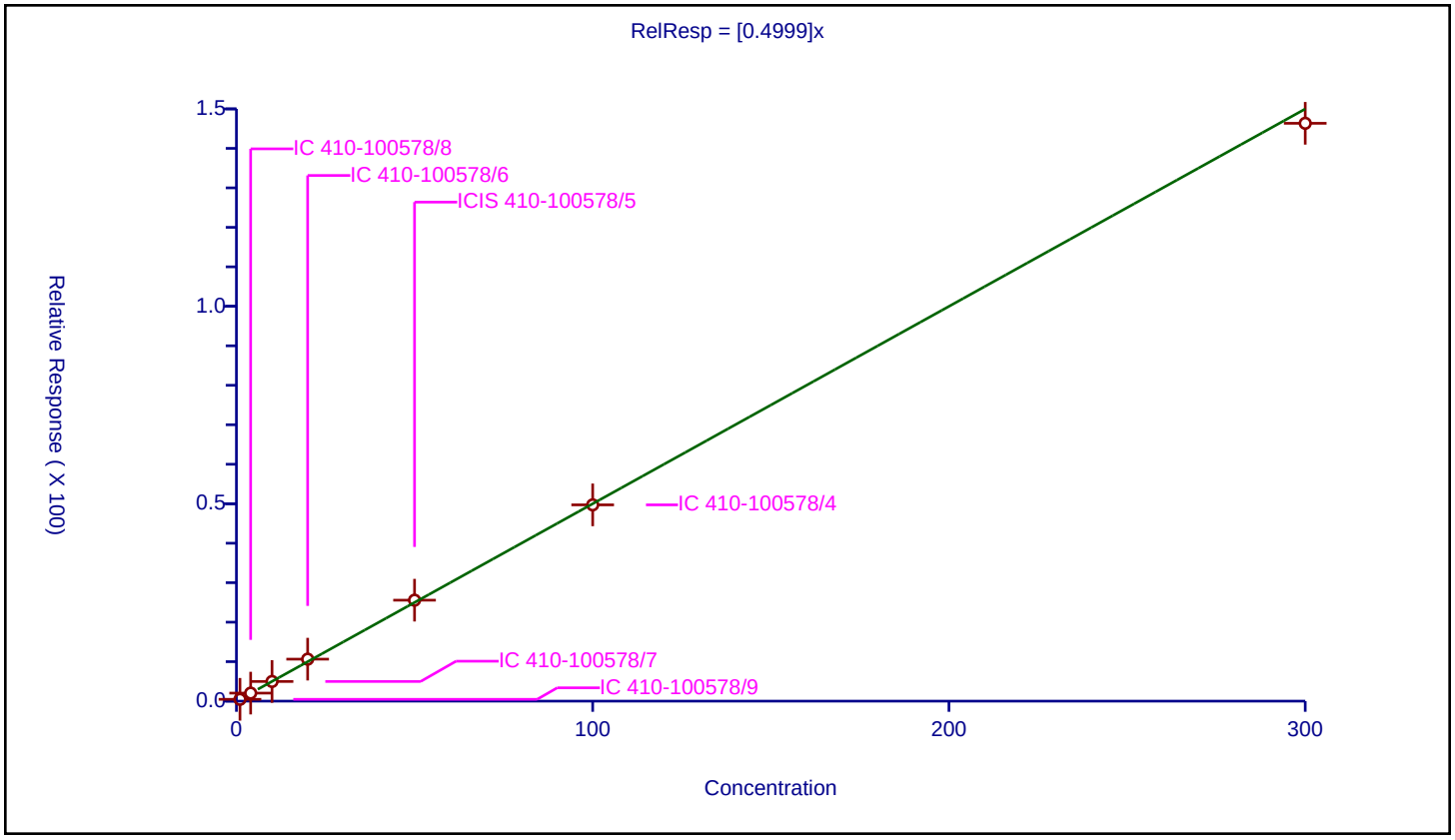
Curve Coefficients

Intercept:	0
Slope:	0.4999

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.464745	50.0	1114374.0	0.464745	Y
2	IC 410-100578/8	4.0	2.034592	50.0	1125115.0	0.508648	Y
3	IC 410-100578/7	10.0	4.980279	50.0	1128973.0	0.498028	Y
4	IC 410-100578/6	20.0	10.634045	50.0	1137963.0	0.531702	Y
5	ICIS 410-100578/5	50.0	25.569858	50.0	1157613.0	0.511397	Y
6	IC 410-100578/4	100.0	49.710593	50.0	1175853.0	0.497106	Y
7	IC 410-100578/3	300.0	146.350527	50.0	1137315.0	0.487835	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

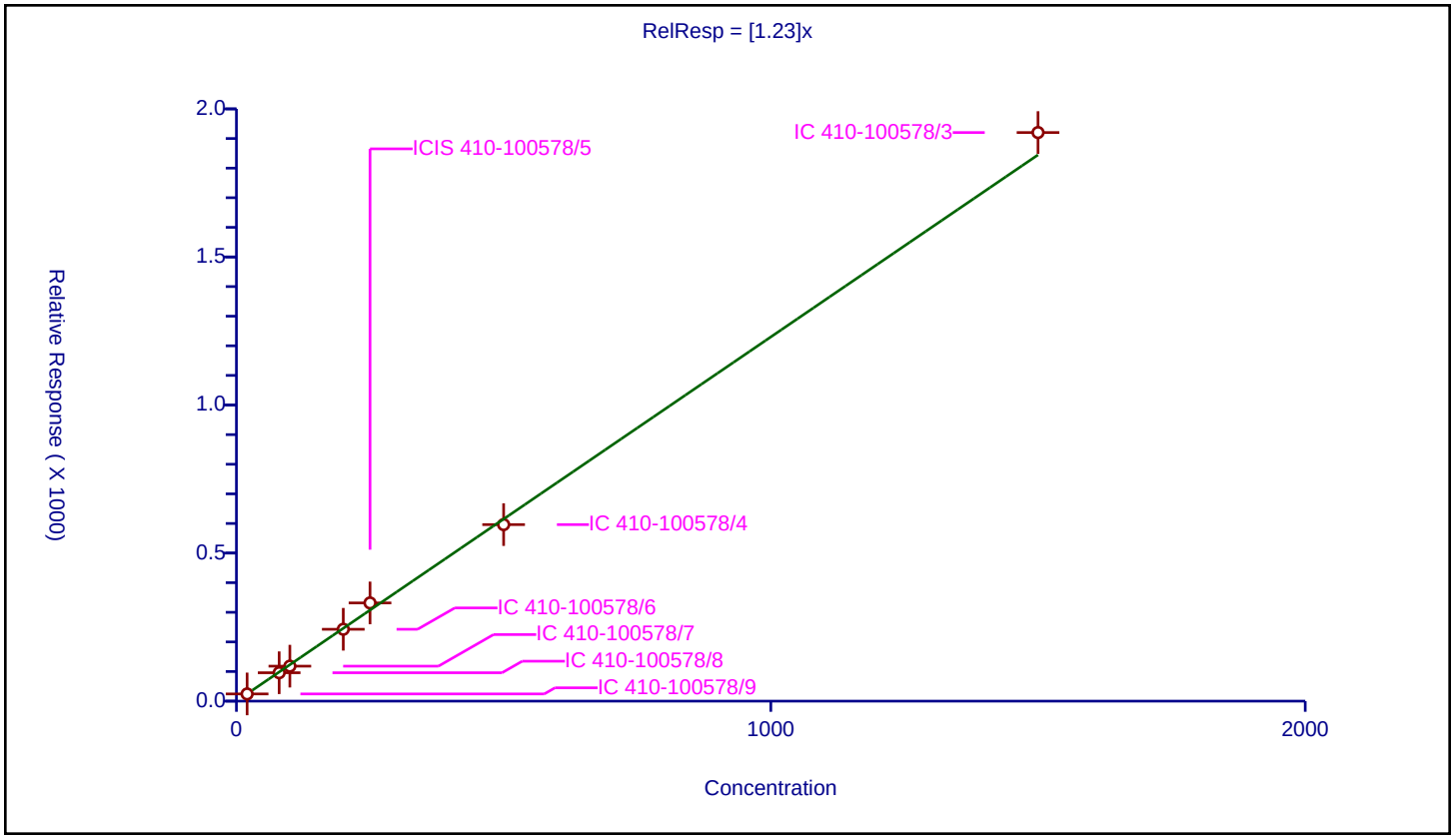
Curve Coefficients

Intercept:	0
Slope:	1.23

Error Coefficients

Standard Error:	798000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	20.0	24.319613	250.0	240084.0	1.215981	Y
2	IC 410-100578/8	80.0	95.927238	250.0	241691.0	1.19909	Y
3	IC 410-100578/7	100.0	118.14332	250.0	278761.0	1.181433	Y
4	IC 410-100578/6	200.0	242.723554	250.0	279910.0	1.213618	Y
5	ICIS 410-100578/5	250.0	331.626652	250.0	239744.0	1.326507	Y
6	IC 410-100578/4	500.0	596.149694	250.0	268615.0	1.192299	Y
7	IC 410-100578/3	1500.0	1920.149126	250.0	233360.0	1.280099	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

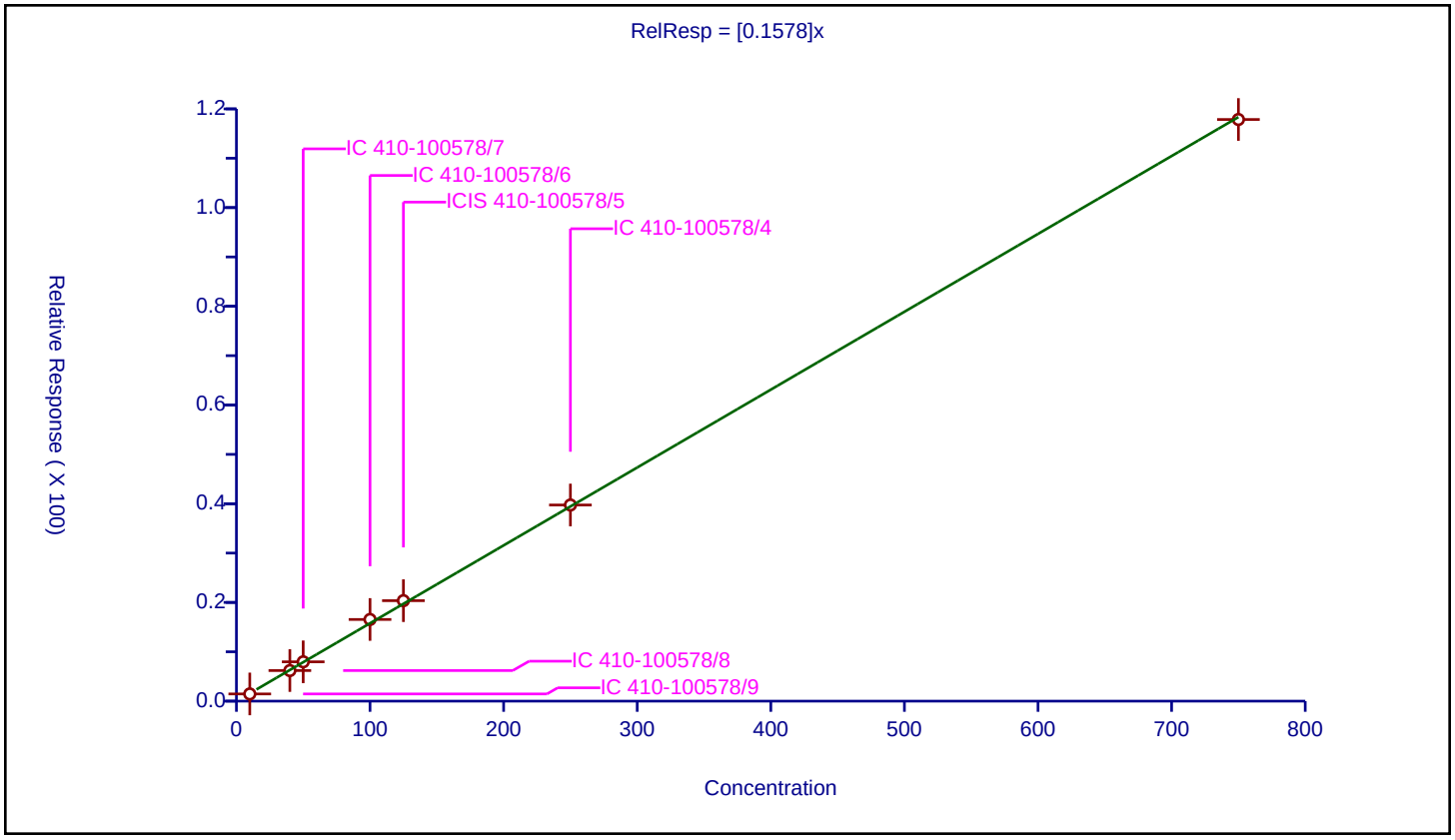
Curve Coefficients

Intercept:	0
Slope:	0.1578

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	10.0	1.457141	50.0	1114374.0	0.145714	Y
2	IC 410-100578/8	40.0	6.197633	50.0	1125115.0	0.154941	Y
3	IC 410-100578/7	50.0	7.970075	50.0	1128973.0	0.159402	Y
4	IC 410-100578/6	100.0	16.546232	50.0	1137963.0	0.165462	Y
5	ICIS 410-100578/5	125.0	20.359999	50.0	1157613.0	0.16288	Y
6	IC 410-100578/4	250.0	39.74098	50.0	1175853.0	0.158964	Y
7	IC 410-100578/3	750.0	117.850947	50.0	1137315.0	0.157135	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

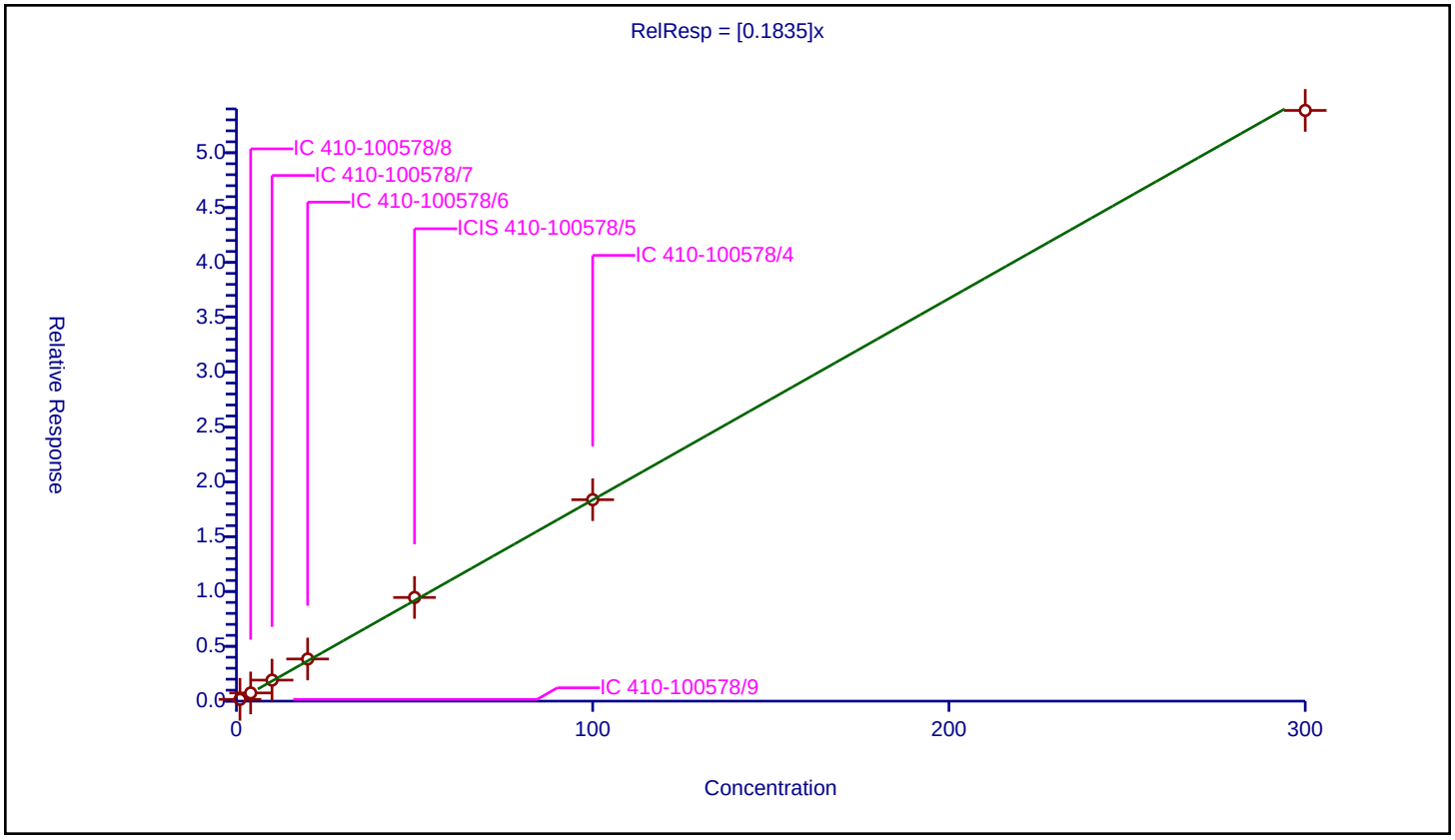
Curve Coefficients

Intercept:	0
Slope:	0.1835

Error Coefficients

Standard Error:	539000
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 410-100578/9	1.0	0.161526	50.0	1114374.0	0.161526	Y
2	IC 410-100578/8	4.0	0.747835	50.0	1125115.0	0.186959	Y
3	IC 410-100578/7	10.0	1.917495	50.0	1128973.0	0.191749	Y
4	IC 410-100578/6	20.0	3.842744	50.0	1137963.0	0.192137	Y
5	ICIS 410-100578/5	50.0	9.453073	50.0	1157613.0	0.189061	Y
6	IC 410-100578/4	100.0	18.368155	50.0	1175853.0	0.183682	Y
7	IC 410-100578/3	300.0	53.861683	50.0	1137315.0	0.179539	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

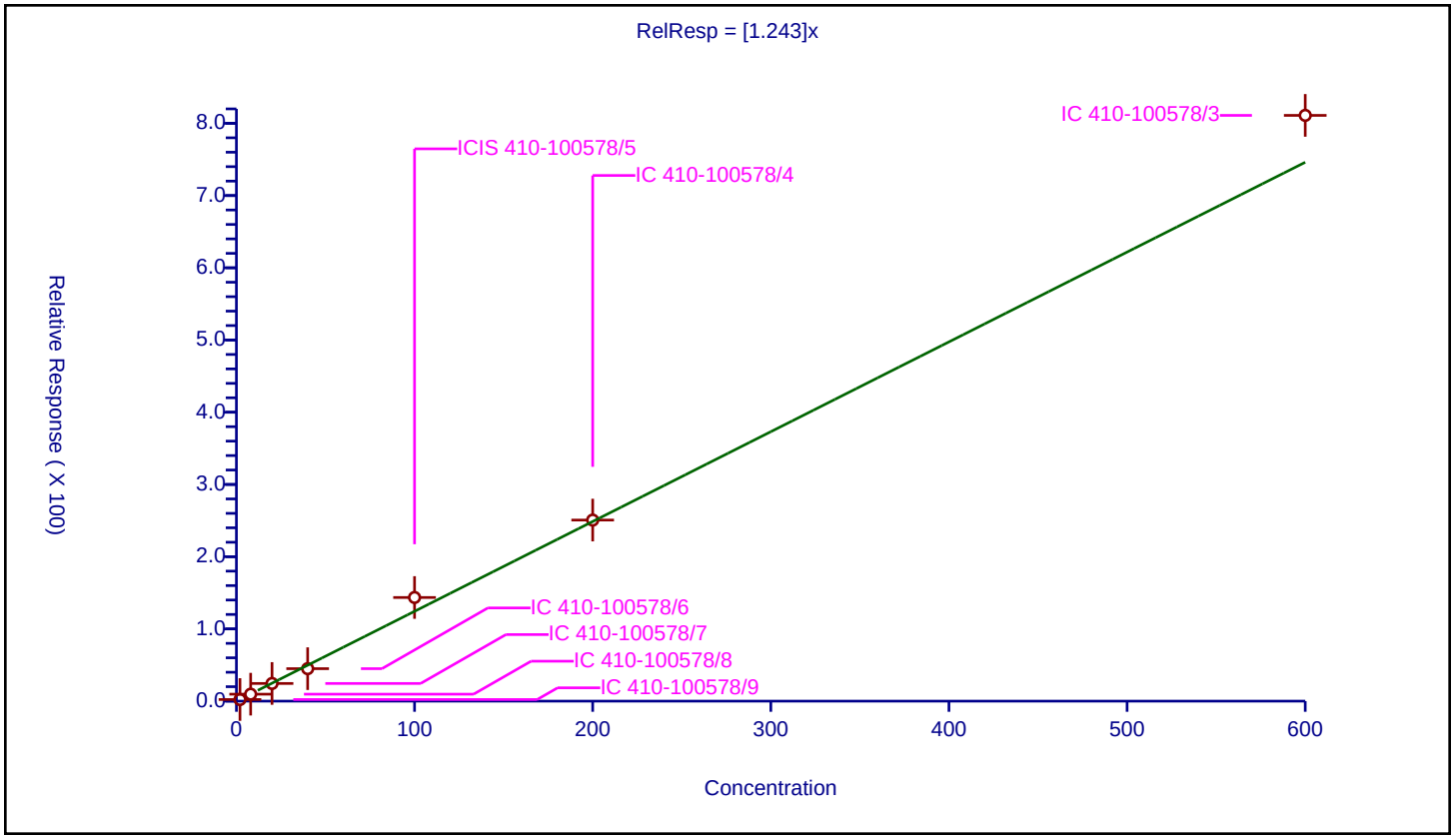
Curve Coefficients

Intercept:	0
Slope:	1.243

Error Coefficients

Standard Error:	333000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	2.220056	250.0	240084.0	1.110028	Y
2	IC 410-100578/8	8.0	9.655924	250.0	241691.0	1.206991	Y
3	IC 410-100578/7	20.0	24.455537	250.0	278761.0	1.222777	Y
4	IC 410-100578/6	40.0	44.976957	250.0	279910.0	1.124424	Y
5	ICIS 410-100578/5	100.0	143.510369	250.0	239744.0	1.435104	Y
6	IC 410-100578/4	200.0	250.684995	250.0	268615.0	1.253425	Y
7	IC 410-100578/3	600.0	811.007671	250.0	233360.0	1.351679	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

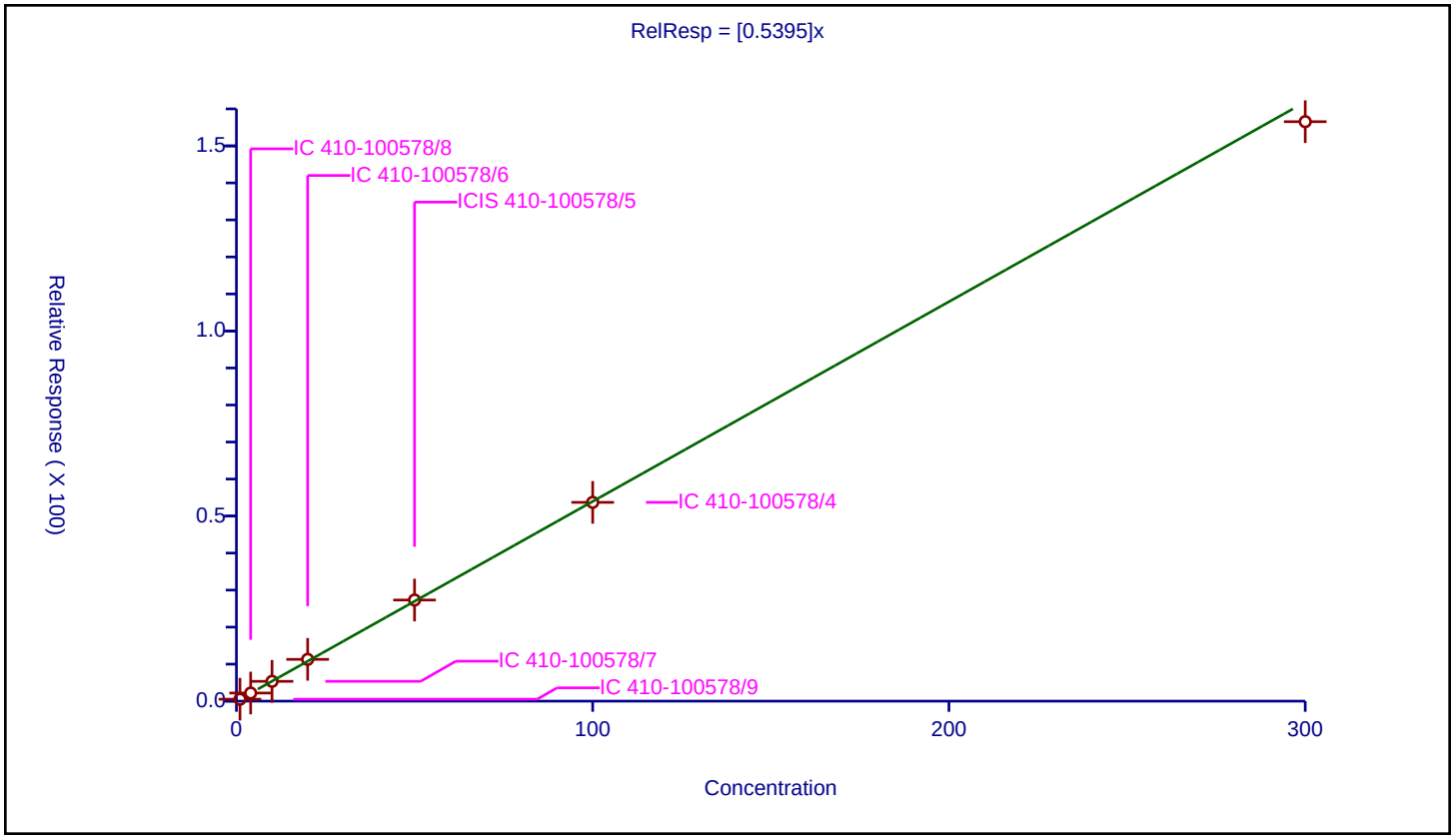
Curve Coefficients

Intercept:	0
Slope:	0.5395

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.523882	50.0	1114374.0	0.523882	Y
2	IC 410-100578/8	4.0	2.194442	50.0	1125115.0	0.548611	Y
3	IC 410-100578/7	10.0	5.348711	50.0	1128973.0	0.534871	Y
4	IC 410-100578/6	20.0	11.28556	50.0	1137963.0	0.564278	Y
5	ICIS 410-100578/5	50.0	27.316685	50.0	1157613.0	0.546334	Y
6	IC 410-100578/4	100.0	53.702121	50.0	1175853.0	0.537021	Y
7	IC 410-100578/3	300.0	156.544229	50.0	1137315.0	0.521814	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

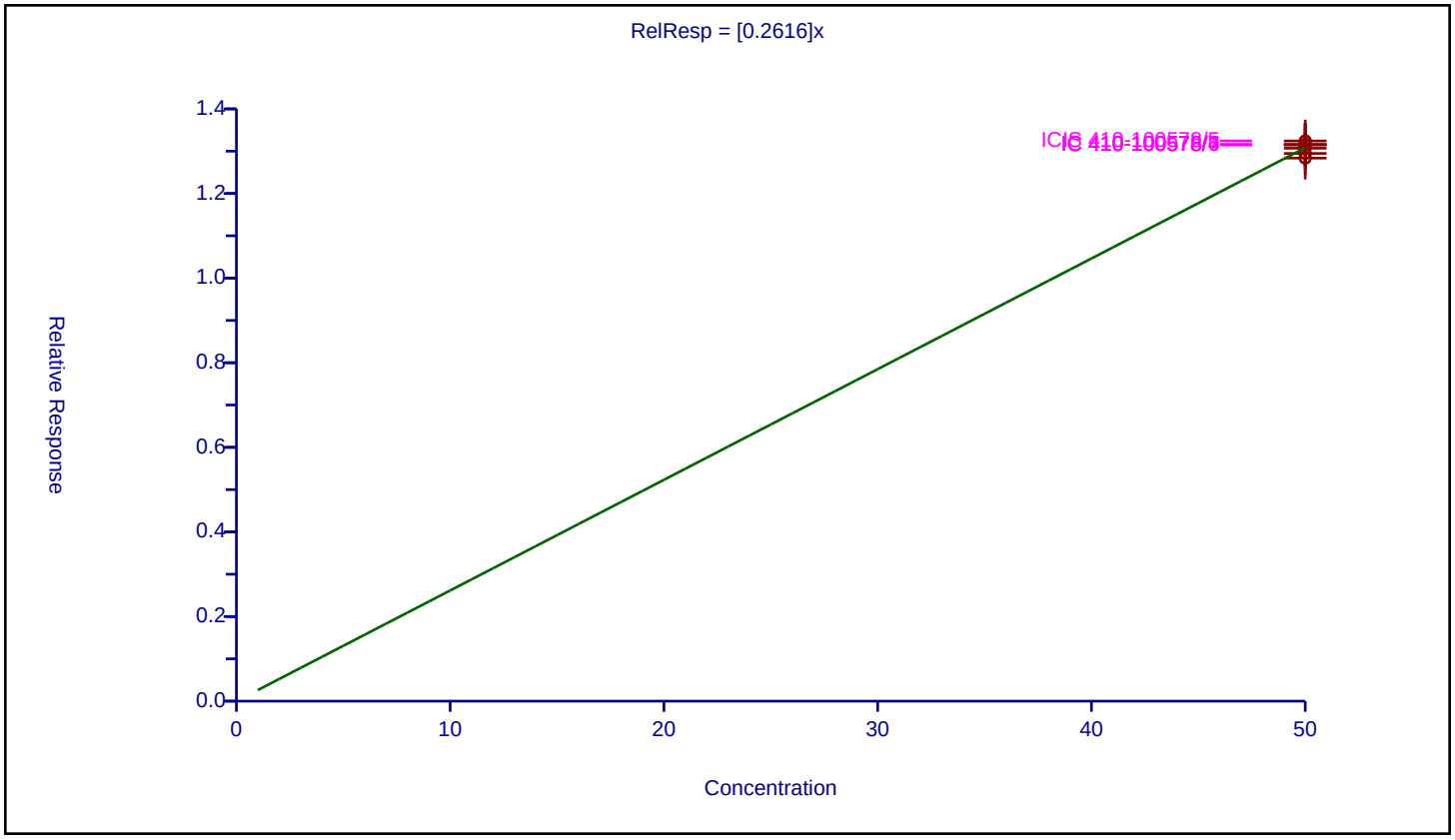
Curve Coefficients

Intercept:	0
Slope:	0.2616

Error Coefficients

Standard Error:	322000
Relative Standard Error:	1.1
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/3	50.0	12.836593	50.0	1137315.0	0.256732	Y
2	IC 410-100578/4	50.0	13.154578	50.0	1175853.0	0.263092	Y
3	ICIS 410-100578/5	50.0	13.242206	50.0	1157613.0	0.264844	Y
4	IC 410-100578/6	50.0	13.149725	50.0	1137963.0	0.262994	Y
5	IC 410-100578/7	50.0	13.15523	50.0	1128973.0	0.263105	Y
6	IC 410-100578/8	50.0	12.946721	50.0	1125115.0	0.258934	Y
7	IC 410-100578/9	50.0	13.070298	50.0	1114374.0	0.261406	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

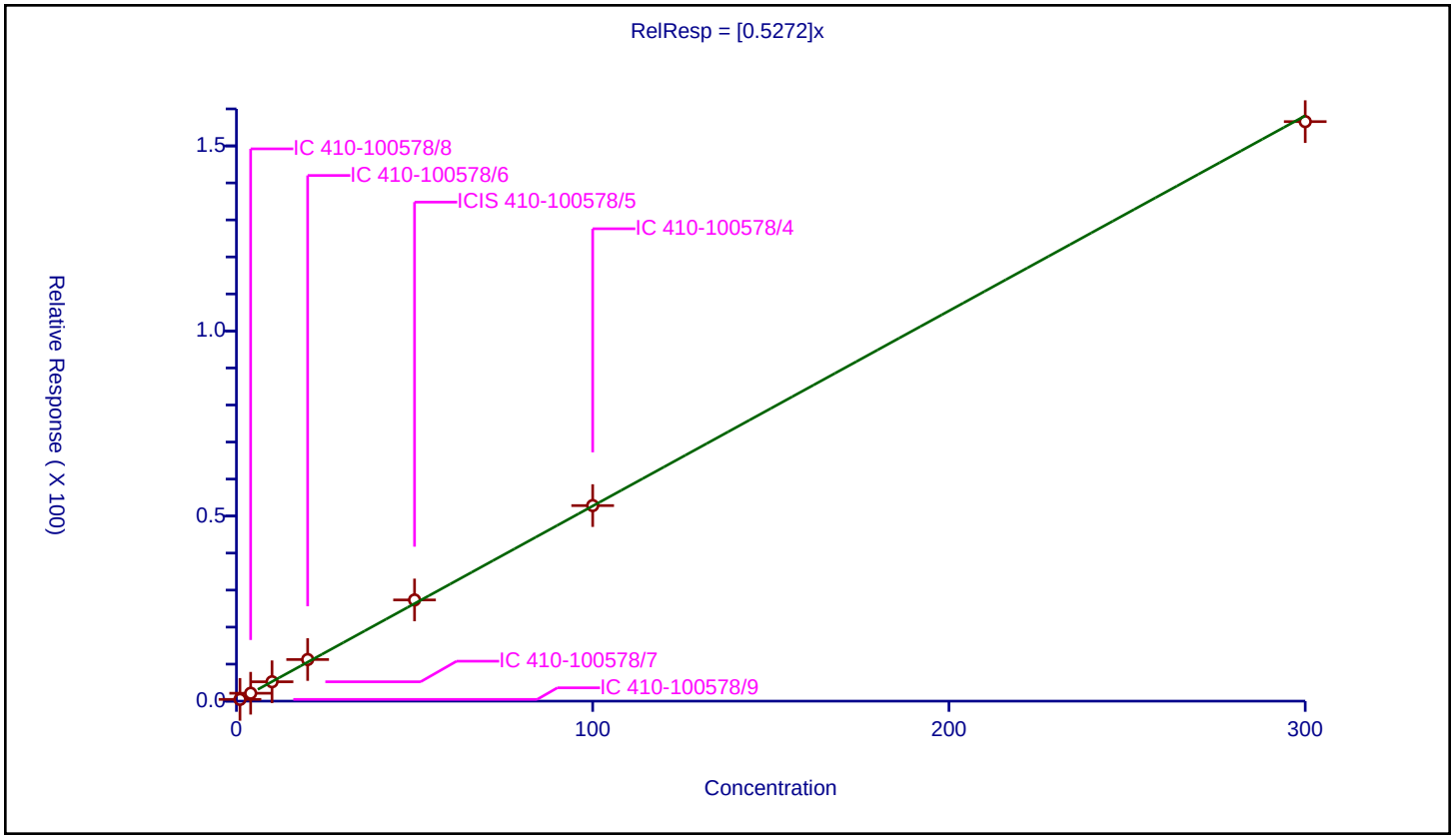
Curve Coefficients

Intercept:	0
Slope:	0.5272

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.474033	50.0	1114374.0	0.474033	Y
2	IC 410-100578/8	4.0	2.134537	50.0	1125115.0	0.533634	Y
3	IC 410-100578/7	10.0	5.231967	50.0	1128973.0	0.523197	Y
4	IC 410-100578/6	20.0	11.245708	50.0	1137963.0	0.562285	Y
5	ICIS 410-100578/5	50.0	27.340009	50.0	1157613.0	0.5468	Y
6	IC 410-100578/4	100.0	52.832199	50.0	1175853.0	0.528322	Y
7	IC 410-100578/3	300.0	156.561111	50.0	1137315.0	0.52187	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

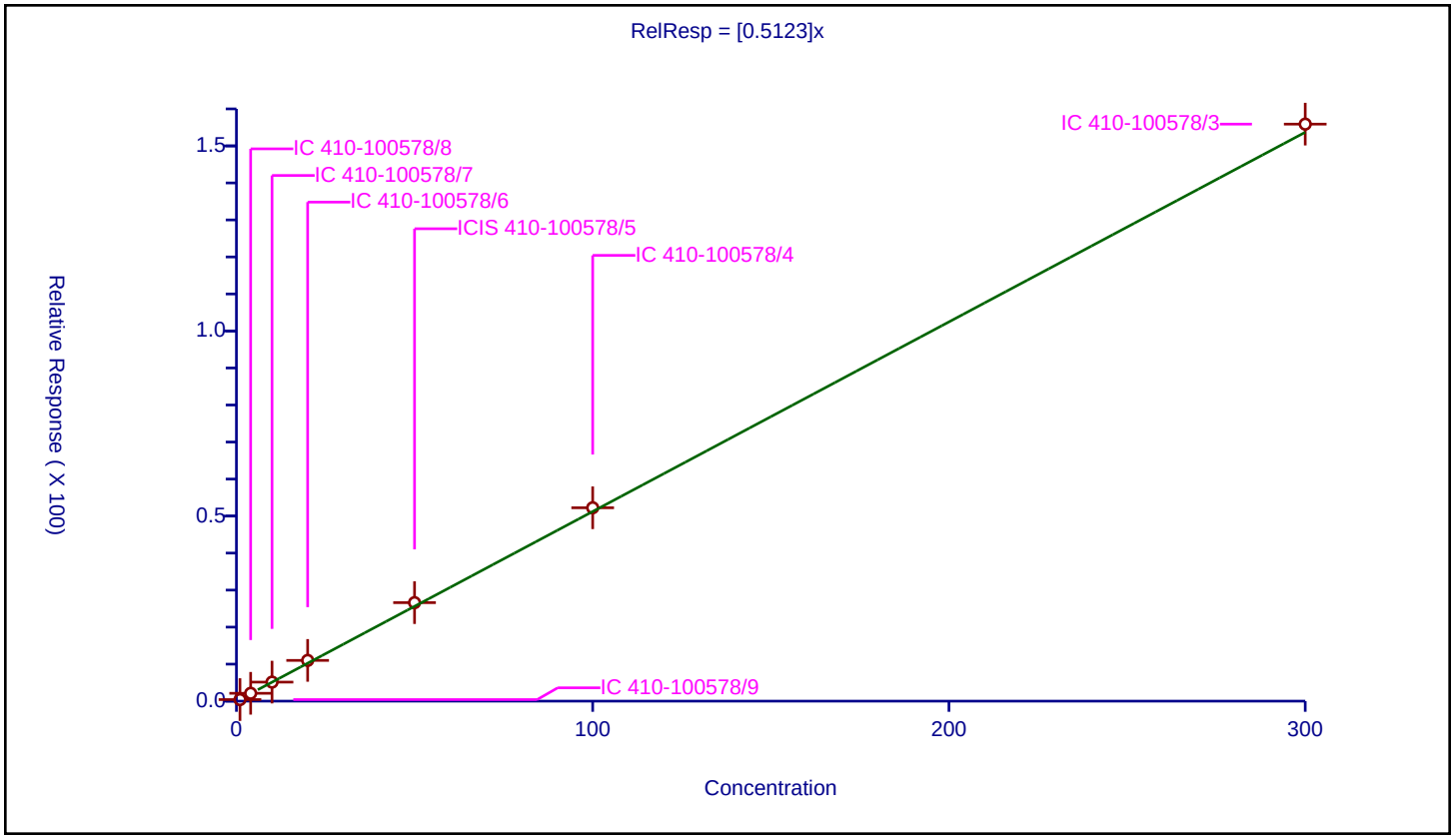
Curve Coefficients

Intercept:	0
Slope:	0.5123

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.417768	50.0	1114374.0	0.417768	Y
2	IC 410-100578/8	4.0	2.118361	50.0	1125115.0	0.52959	Y
3	IC 410-100578/7	10.0	5.140646	50.0	1128973.0	0.514065	Y
4	IC 410-100578/6	20.0	11.007256	50.0	1137963.0	0.550363	Y
5	ICIS 410-100578/5	50.0	26.608504	50.0	1157613.0	0.53217	Y
6	IC 410-100578/4	100.0	52.239566	50.0	1175853.0	0.522396	Y
7	IC 410-100578/3	300.0	155.885309	50.0	1137315.0	0.519618	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

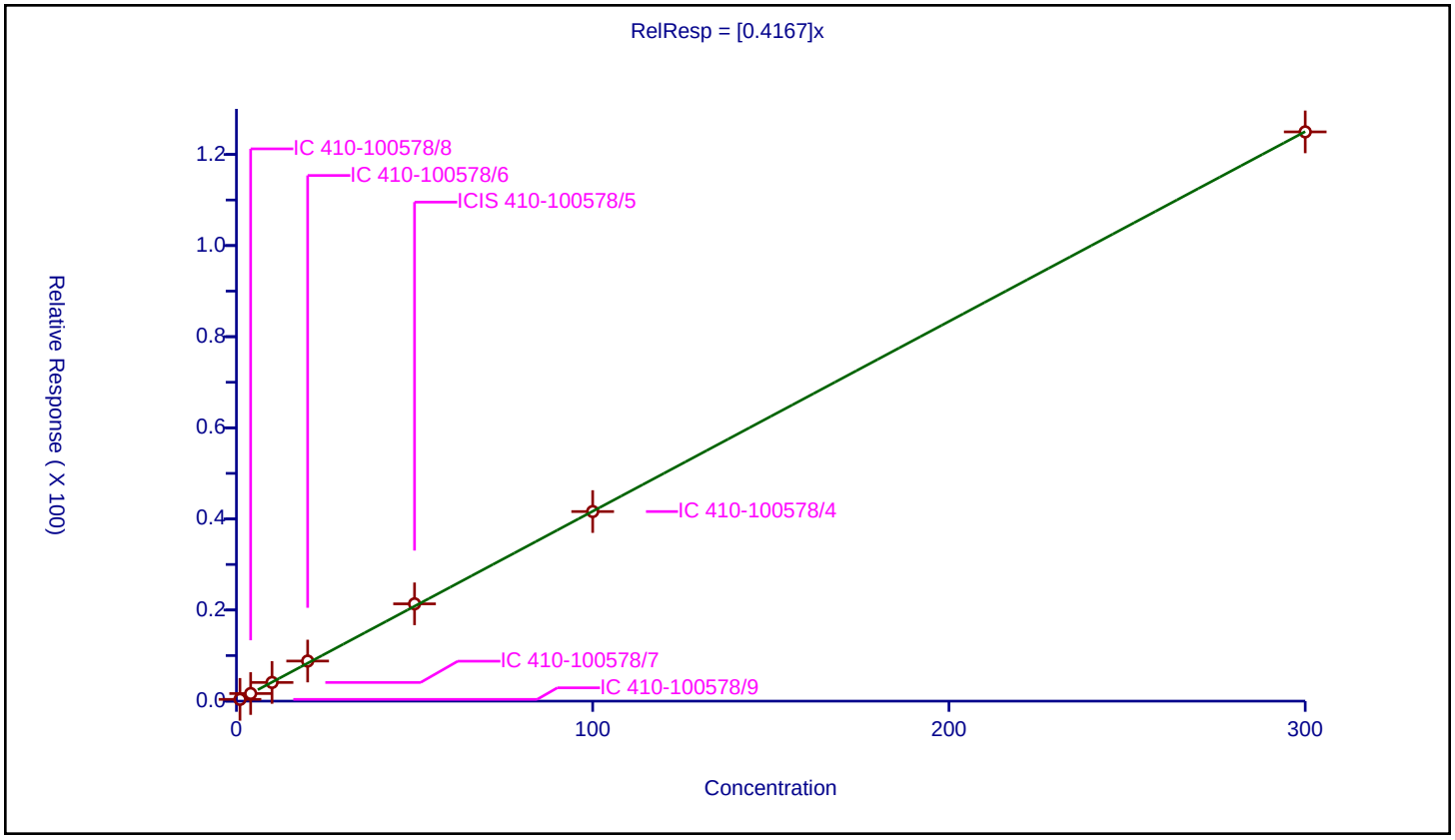
Curve Coefficients

Intercept:	0
Slope:	0.4167

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.38977	50.0	1114374.0	0.38977	Y
2	IC 410-100578/8	4.0	1.668896	50.0	1125115.0	0.417224	Y
3	IC 410-100578/7	10.0	4.102047	50.0	1128973.0	0.410205	Y
4	IC 410-100578/6	20.0	8.800945	50.0	1137963.0	0.440047	Y
5	ICIS 410-100578/5	50.0	21.359599	50.0	1157613.0	0.427192	Y
6	IC 410-100578/4	100.0	41.616299	50.0	1175853.0	0.416163	Y
7	IC 410-100578/3	300.0	124.953641	50.0	1137315.0	0.416512	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

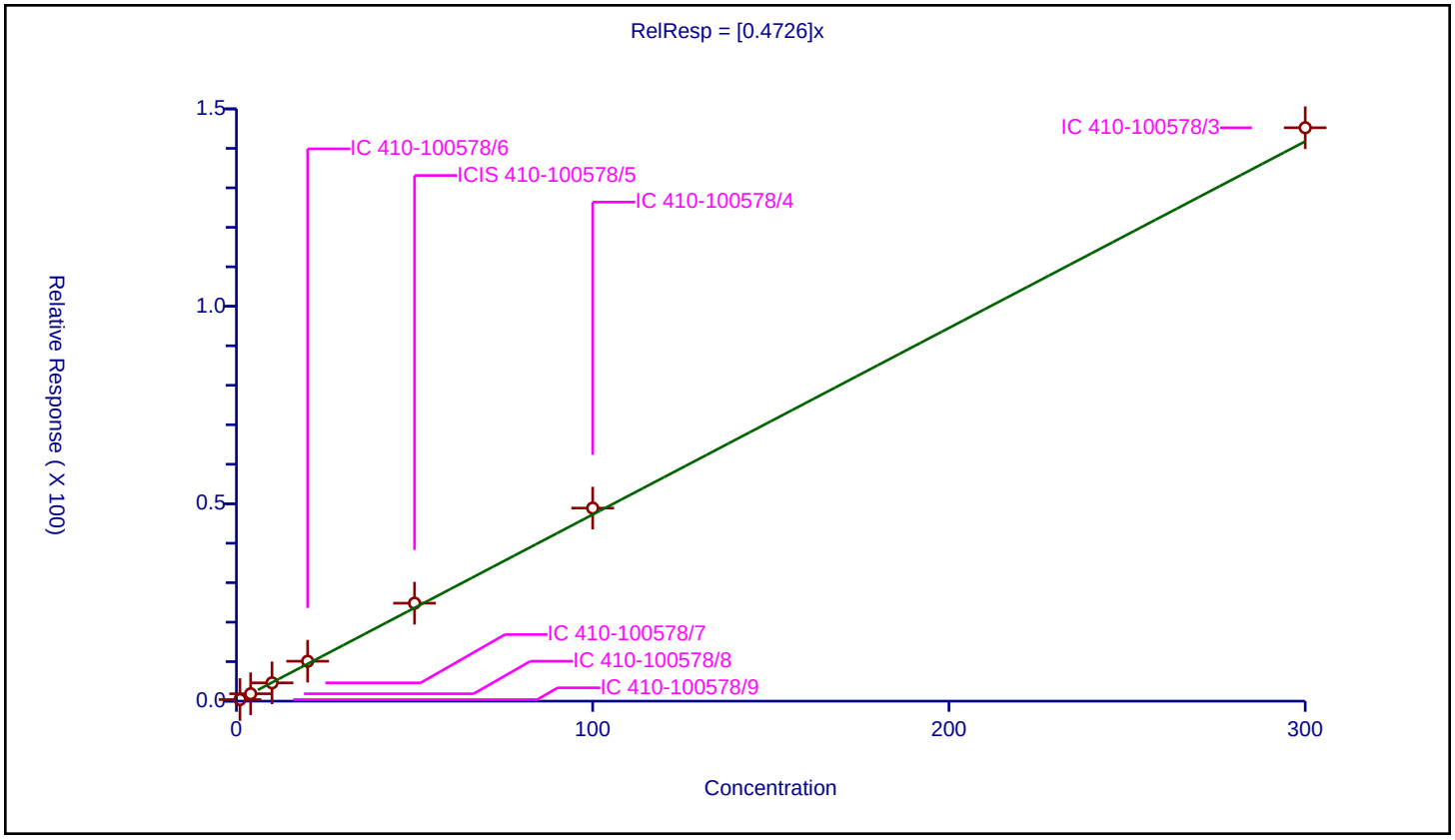
Curve Coefficients

Intercept:	0
Slope:	0.4726

Error Coefficients

Standard Error:	1450000
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 410-100578/9	1.0	0.402513	50.0	1114374.0	0.402513	Y
2	IC 410-100578/8	4.0	1.869631	50.0	1125115.0	0.467408	Y
3	IC 410-100578/7	10.0	4.632307	50.0	1128973.0	0.463231	Y
4	IC 410-100578/6	20.0	10.109819	50.0	1137963.0	0.505491	Y
5	ICIS 410-100578/5	50.0	24.810191	50.0	1157613.0	0.496204	Y
6	IC 410-100578/4	100.0	48.894802	50.0	1175853.0	0.488948	Y
7	IC 410-100578/3	300.0	145.223707	50.0	1137315.0	0.484079	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

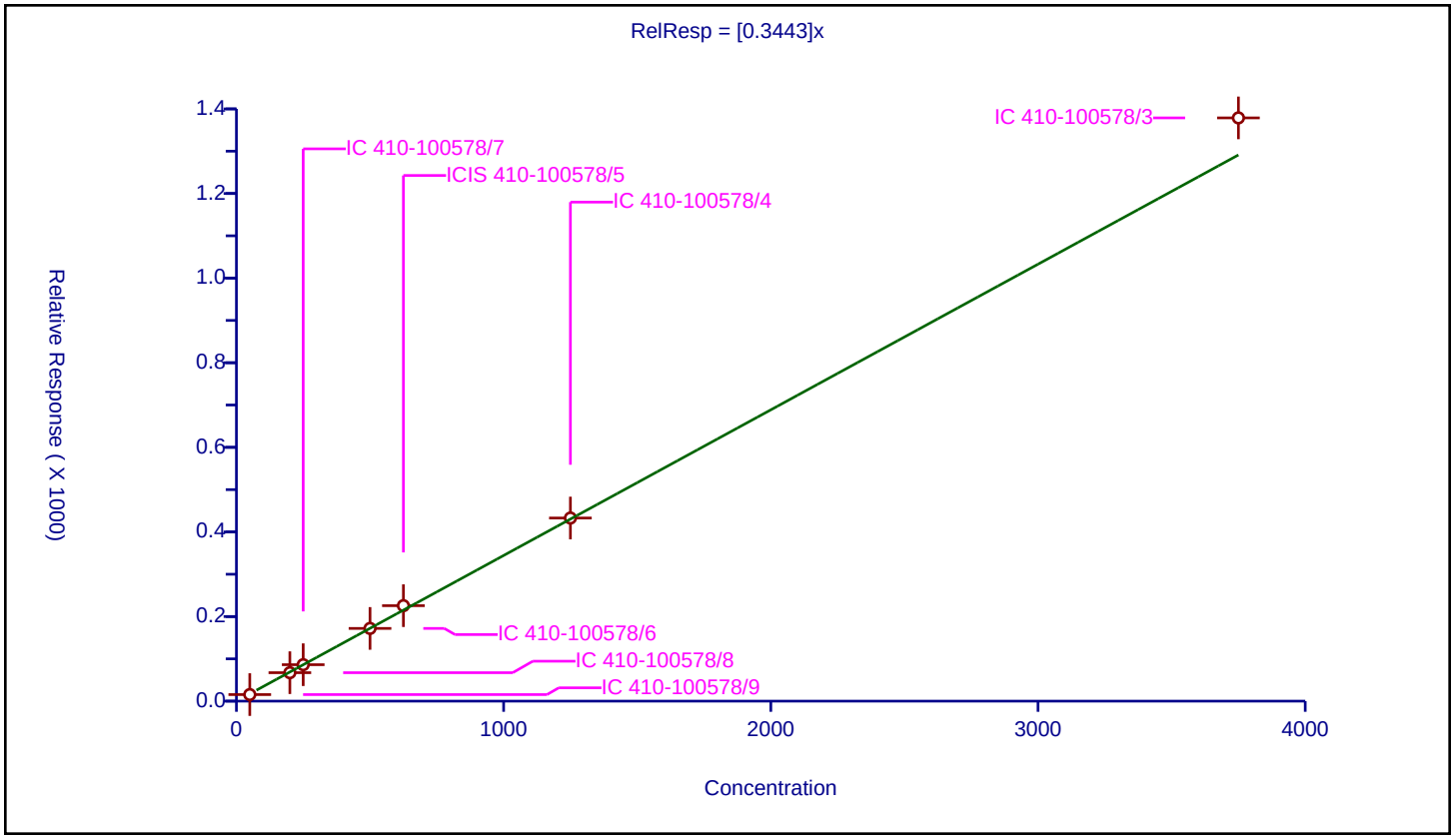
Curve Coefficients

Intercept:	0
Slope:	0.3443

Error Coefficients

Standard Error:	572000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	50.0	15.507073	250.0	240084.0	0.310141	Y
2	IC 410-100578/8	200.0	67.289432	250.0	241691.0	0.336447	Y
3	IC 410-100578/7	250.0	86.147273	250.0	278761.0	0.344589	Y
4	IC 410-100578/6	500.0	171.923118	250.0	279910.0	0.343846	Y
5	ICIS 410-100578/5	625.0	225.700122	250.0	239744.0	0.36112	Y
6	IC 410-100578/4	1250.0	432.861158	250.0	268615.0	0.346289	Y
7	IC 410-100578/3	3750.0	1378.733502	250.0	233360.0	0.367662	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

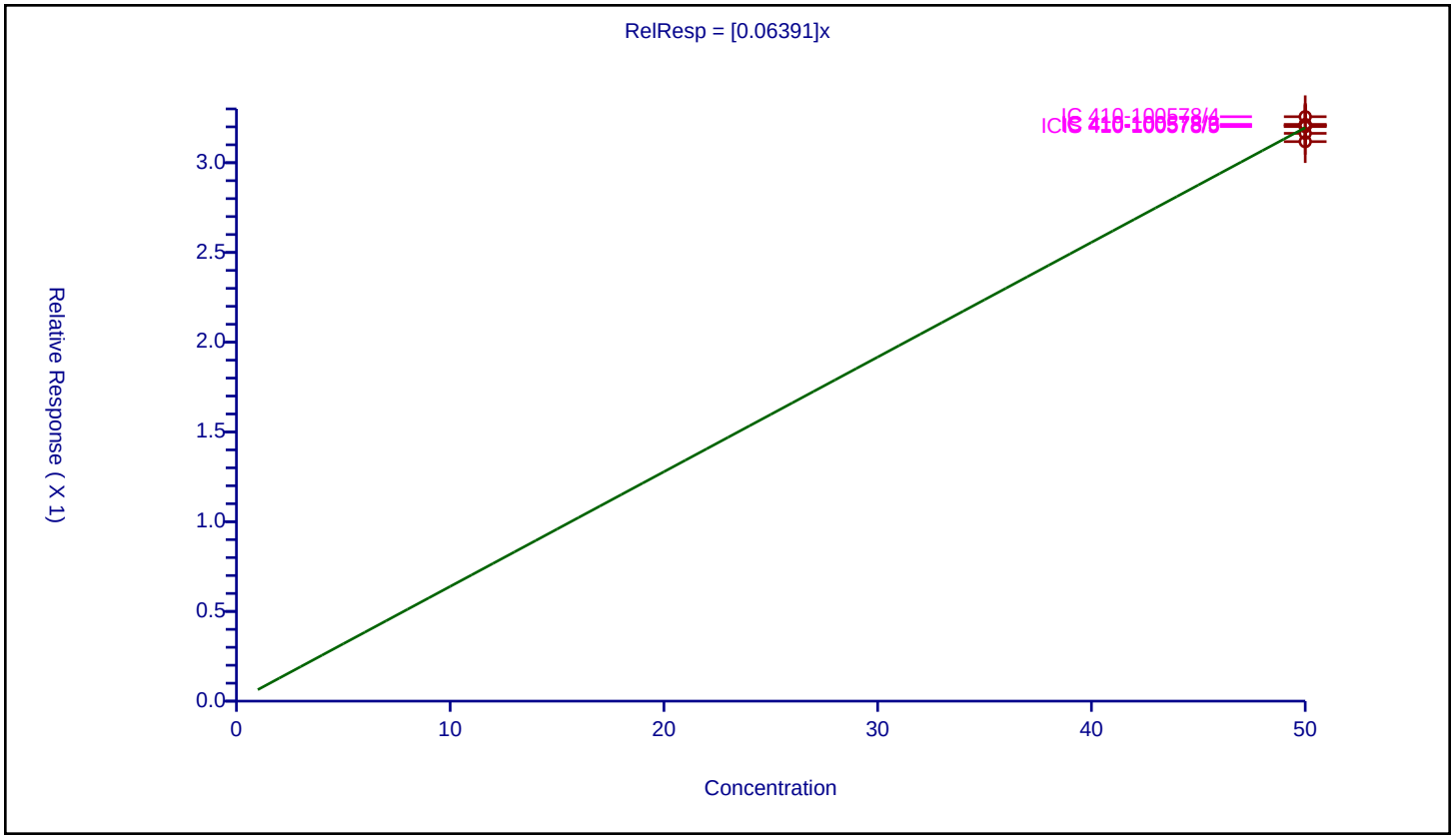
Curve Coefficients

Intercept:	0
Slope:	0.06391

Error Coefficients

Standard Error:	78700
Relative Standard Error:	1.4
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/3	50.0	3.212918	50.0	1137315.0	0.064258	Y
2	IC 410-100578/4	50.0	3.25653	50.0	1175853.0	0.065131	Y
3	ICIS 410-100578/5	50.0	3.201286	50.0	1157613.0	0.064026	Y
4	IC 410-100578/6	50.0	3.204454	50.0	1137963.0	0.064089	Y
5	IC 410-100578/7	50.0	3.163805	50.0	1128973.0	0.063276	Y
6	IC 410-100578/8	50.0	3.117592	50.0	1125115.0	0.062352	Y
7	IC 410-100578/9	50.0	3.211175	50.0	1114374.0	0.064224	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

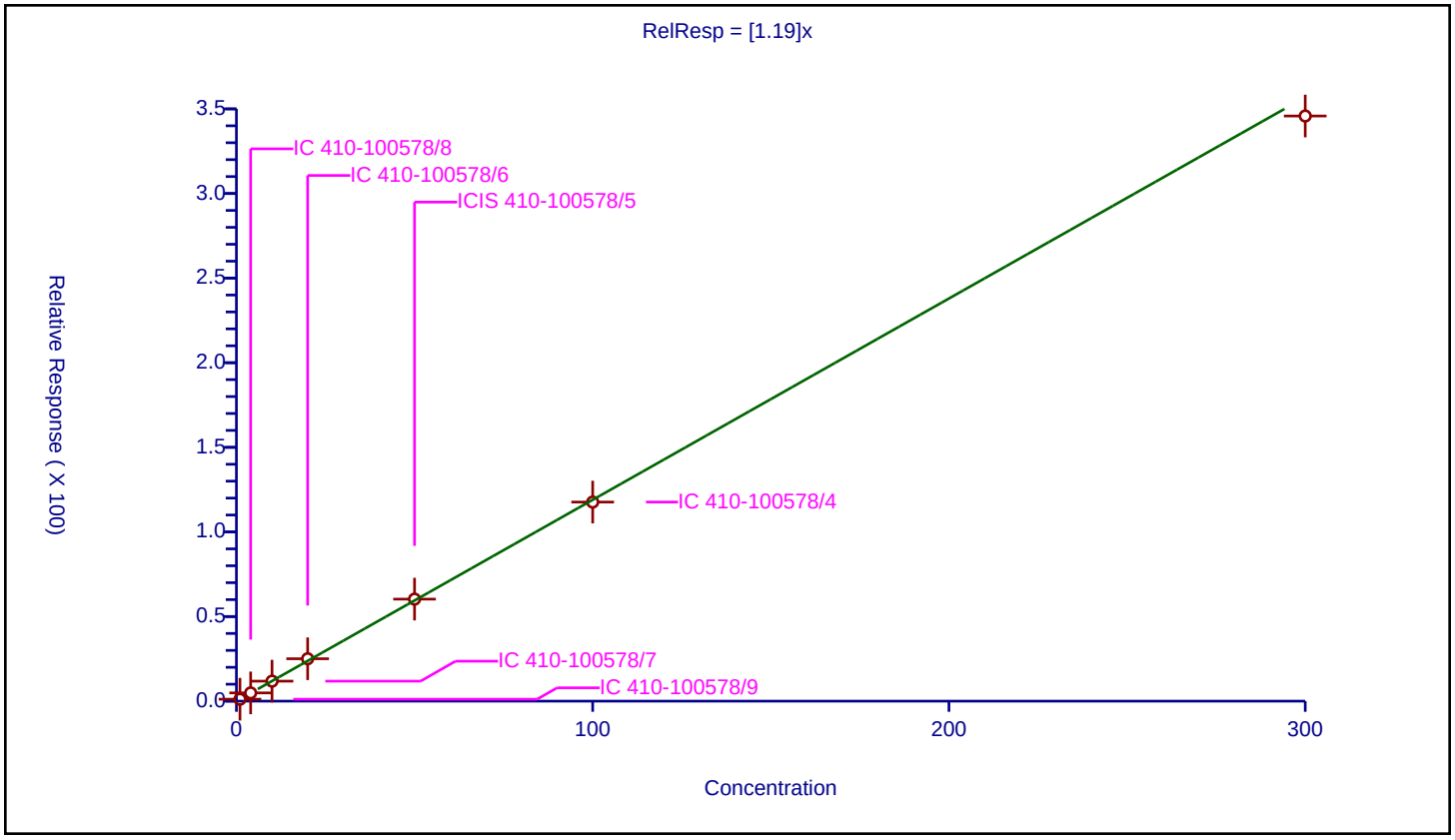
Curve Coefficients

Intercept:	0
Slope:	1.19

Error Coefficients

Standard Error:	3460000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.138846	50.0	1114374.0	1.138846	Y
2	IC 410-100578/8	4.0	4.877901	50.0	1125115.0	1.219475	Y
3	IC 410-100578/7	10.0	11.819282	50.0	1128973.0	1.181928	Y
4	IC 410-100578/6	20.0	25.055823	50.0	1137963.0	1.252791	Y
5	ICIS 410-100578/5	50.0	60.286944	50.0	1157613.0	1.205739	Y
6	IC 410-100578/4	100.0	117.642767	50.0	1175853.0	1.176428	Y
7	IC 410-100578/3	300.0	345.792107	50.0	1137315.0	1.15264	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

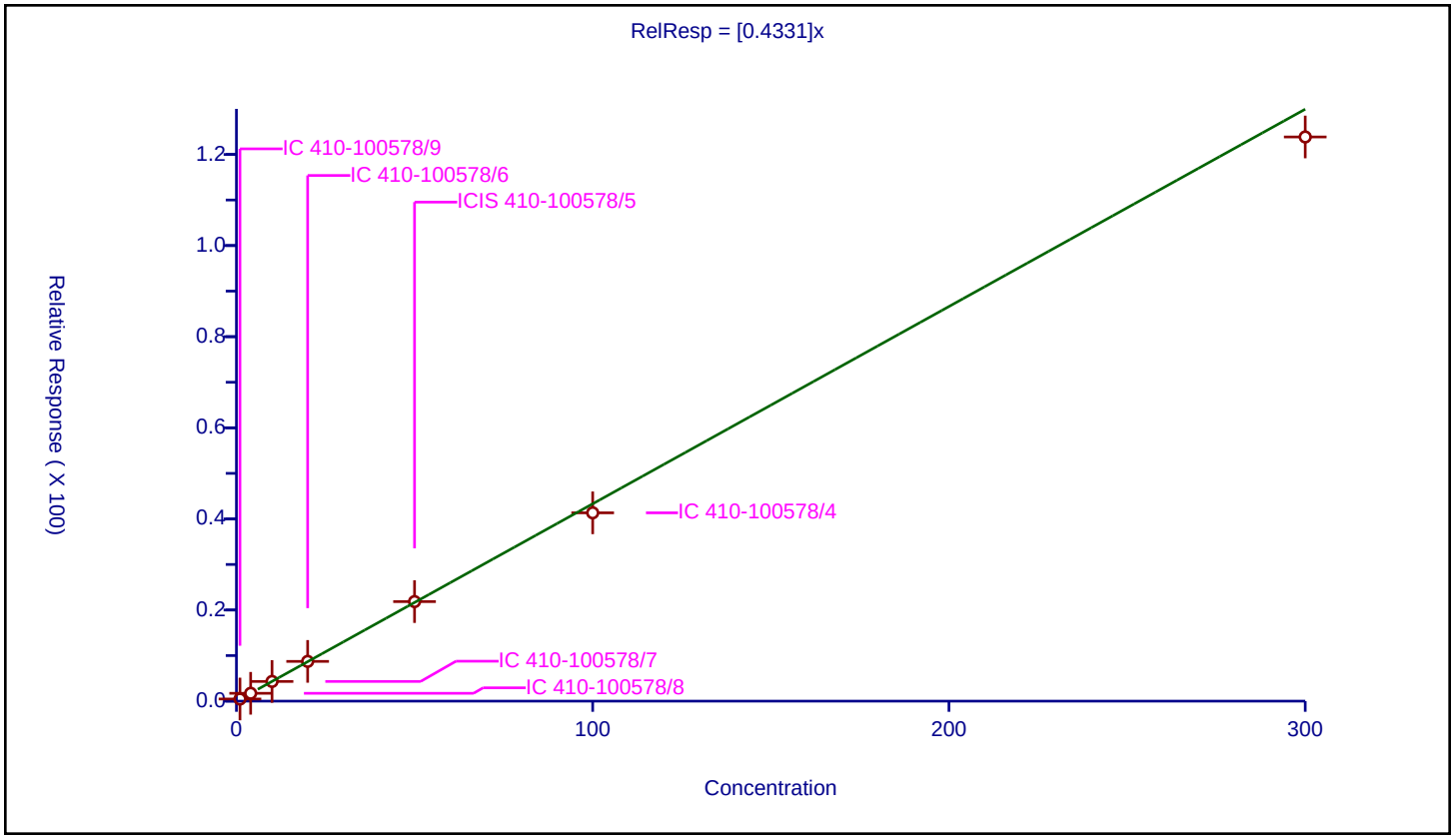
Curve Coefficients

Intercept:	0
Slope:	0.4331

Error Coefficients

Standard Error:	1240000
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 410-100578/9	1.0	0.469232	50.0	1114374.0	0.469232	Y
2	IC 410-100578/8	4.0	1.723957	50.0	1125115.0	0.430989	Y
3	IC 410-100578/7	10.0	4.321405	50.0	1128973.0	0.432141	Y
4	IC 410-100578/6	20.0	8.725152	50.0	1137963.0	0.436258	Y
5	ICIS 410-100578/5	50.0	21.852165	50.0	1157613.0	0.437043	Y
6	IC 410-100578/4	100.0	41.333696	50.0	1175853.0	0.413337	Y
7	IC 410-100578/3	300.0	123.836976	50.0	1137315.0	0.41279	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

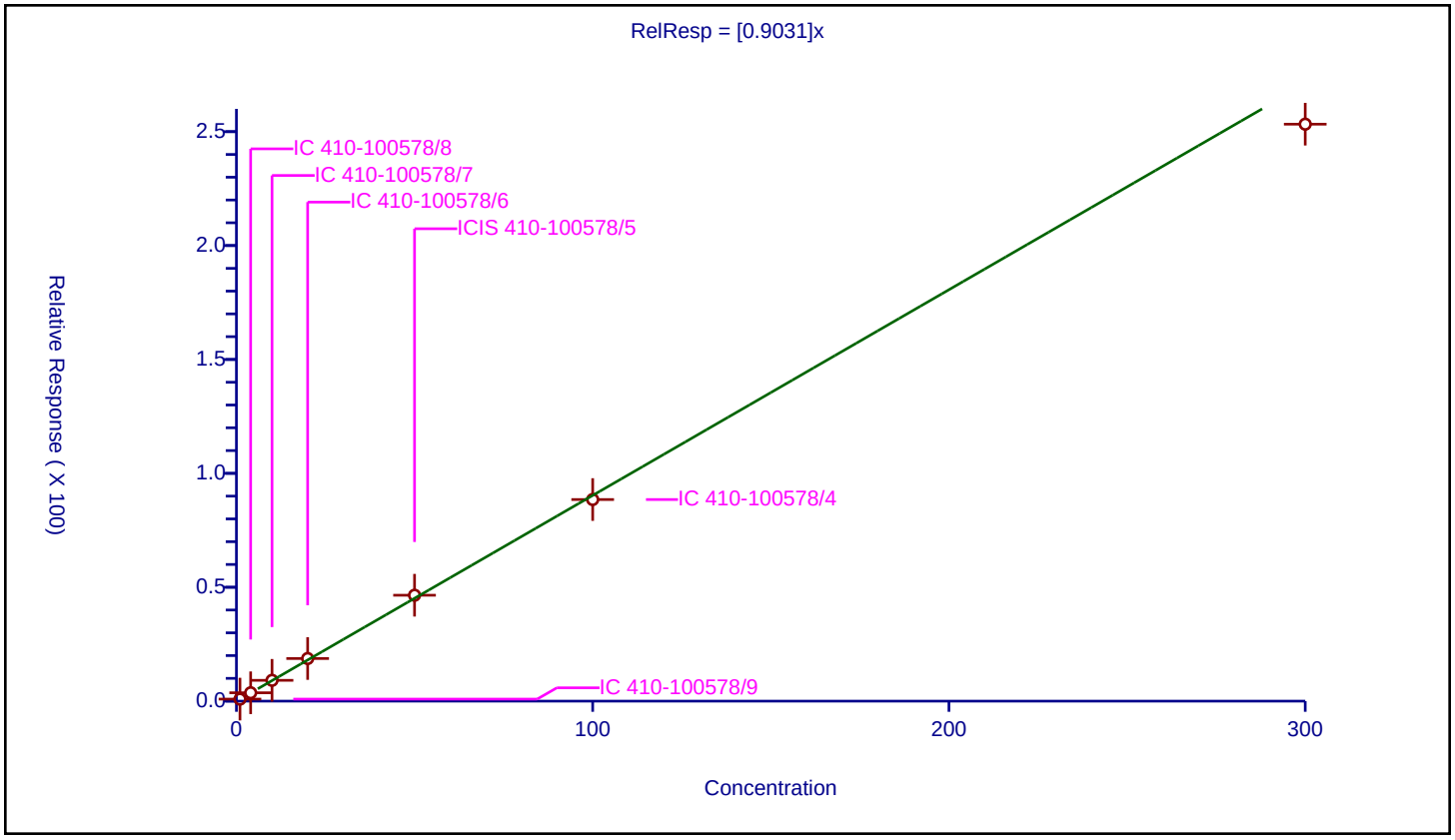
Curve Coefficients

Intercept:	0
Slope:	0.9031

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.893282	50.0	1114374.0	0.893282	Y
2	IC 410-100578/8	4.0	3.677269	50.0	1125115.0	0.919317	Y
3	IC 410-100578/7	10.0	9.13959	50.0	1128973.0	0.913959	Y
4	IC 410-100578/6	20.0	18.713306	50.0	1137963.0	0.935665	Y
5	ICIS 410-100578/5	50.0	46.498528	50.0	1157613.0	0.929971	Y
6	IC 410-100578/4	100.0	88.501284	50.0	1175853.0	0.885013	Y
7	IC 410-100578/3	300.0	253.290513	50.0	1137315.0	0.844302	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

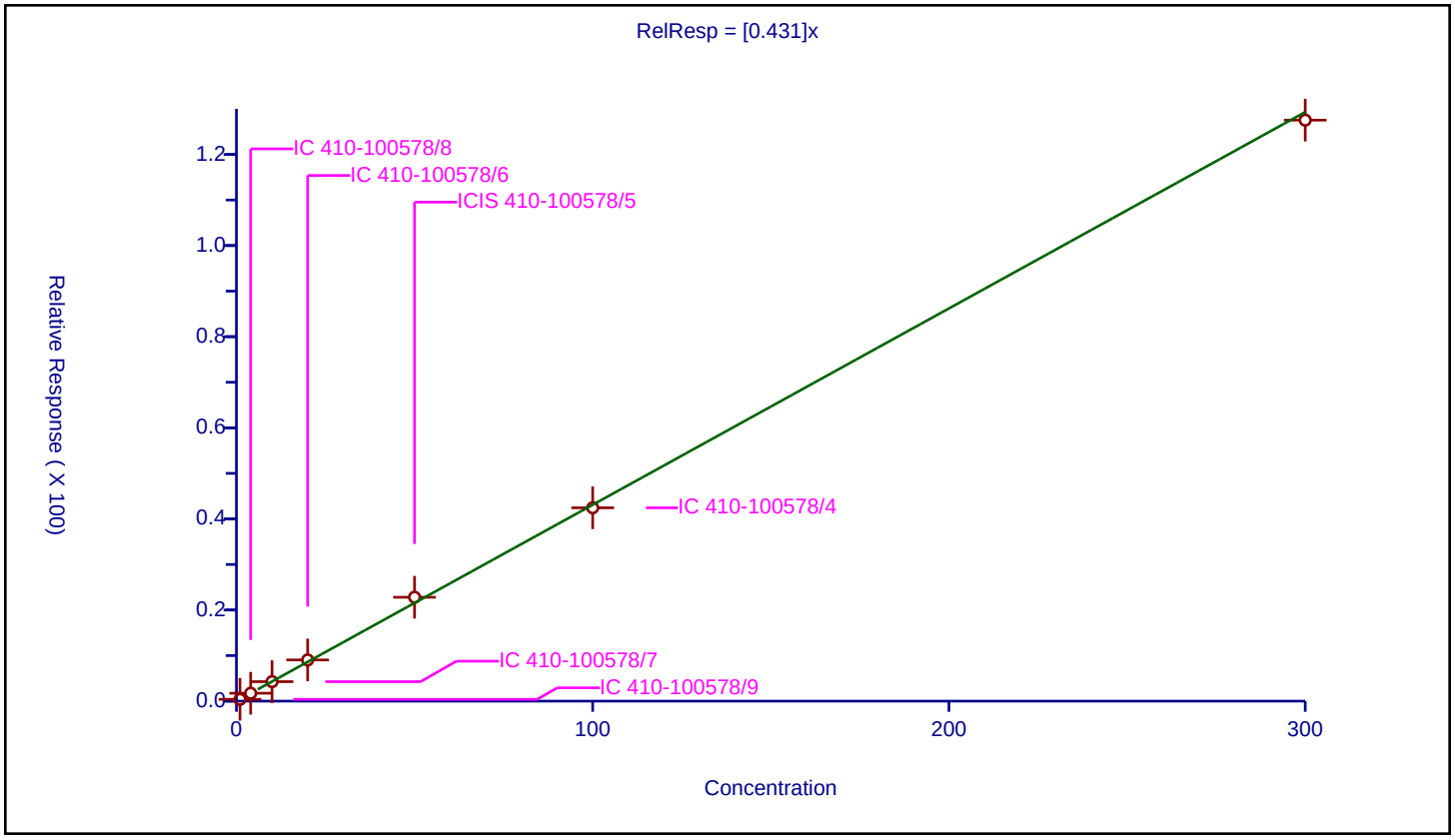
Curve Coefficients

Intercept:	0
Slope:	0.431

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.397263	50.0	1114374.0	0.397263	Y
2	IC 410-100578/8	4.0	1.739244	50.0	1125115.0	0.434811	Y
3	IC 410-100578/7	10.0	4.273751	50.0	1128973.0	0.427375	Y
4	IC 410-100578/6	20.0	9.04032	50.0	1137963.0	0.452016	Y
5	ICIS 410-100578/5	50.0	22.80231	50.0	1157613.0	0.456046	Y
6	IC 410-100578/4	100.0	42.438043	50.0	1175853.0	0.42438	Y
7	IC 410-100578/3	300.0	127.532654	50.0	1137315.0	0.425109	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

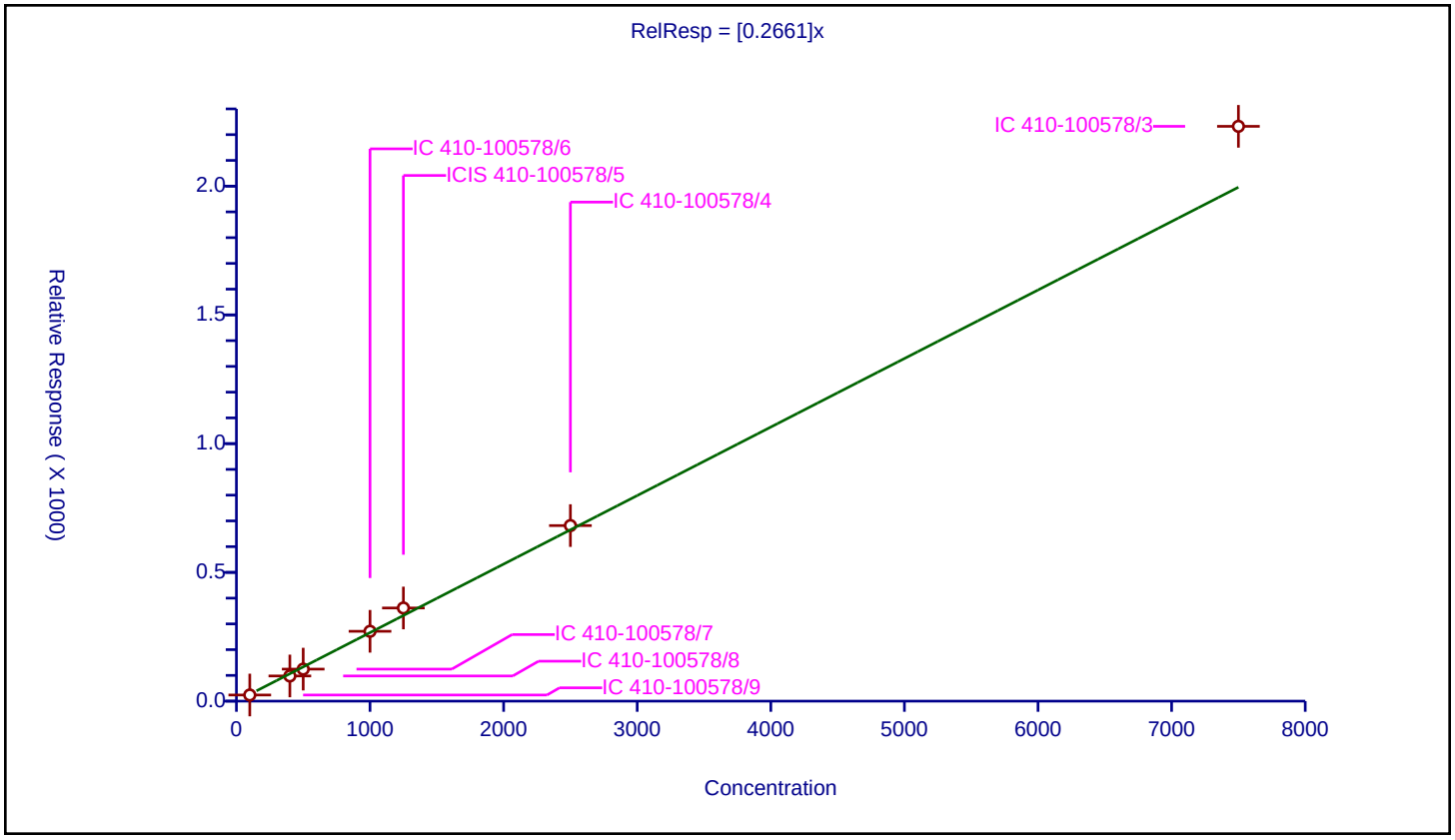
Curve Coefficients

Intercept:	0
Slope:	0.2661

Error Coefficients

Standard Error:	923000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	100.0	23.868729	250.0	240084.0	0.238687	Y
2	IC 410-100578/8	400.0	97.748778	250.0	241691.0	0.244372	Y
3	IC 410-100578/7	500.0	124.348456	250.0	278761.0	0.248697	Y
4	IC 410-100578/6	1000.0	271.234504	250.0	279910.0	0.271235	Y
5	ICIS 410-100578/5	1250.0	361.779648	250.0	239744.0	0.289424	Y
6	IC 410-100578/4	2500.0	681.730358	250.0	268615.0	0.272692	Y
7	IC 410-100578/3	7500.0	2232.26667	250.0	233360.0	0.297636	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

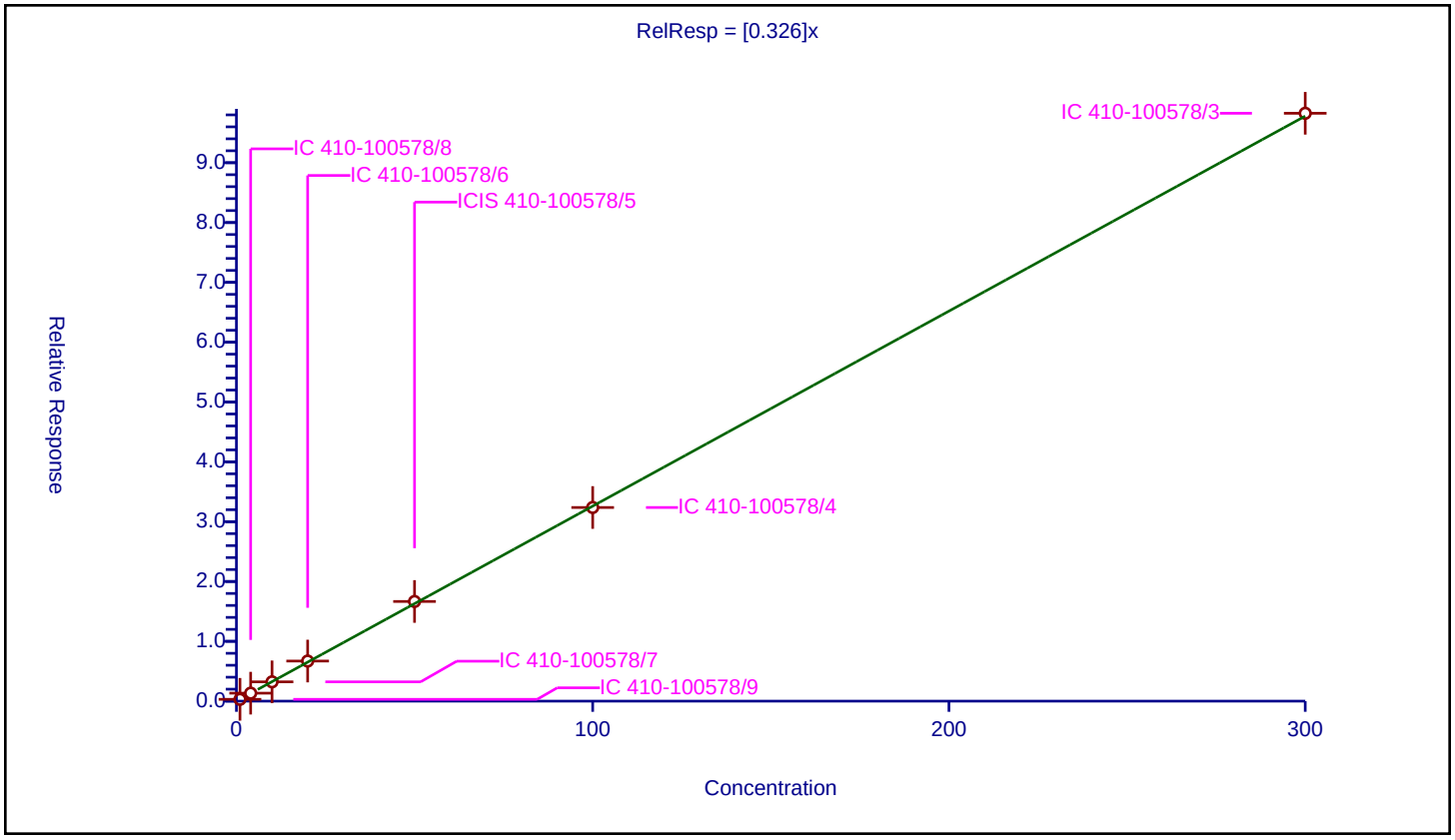
Curve Coefficients

Intercept:	0
Slope:	0.326

Error Coefficients

Standard Error:	979000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.306046	50.0	1114374.0	0.306046	Y
2	IC 410-100578/8	4.0	1.33453	50.0	1125115.0	0.333633	Y
3	IC 410-100578/7	10.0	3.225409	50.0	1128973.0	0.322541	Y
4	IC 410-100578/6	20.0	6.703953	50.0	1137963.0	0.335198	Y
5	ICIS 410-100578/5	50.0	16.661613	50.0	1157613.0	0.333232	Y
6	IC 410-100578/4	100.0	32.367779	50.0	1175853.0	0.323678	Y
7	IC 410-100578/3	300.0	98.26508	50.0	1137315.0	0.32755	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

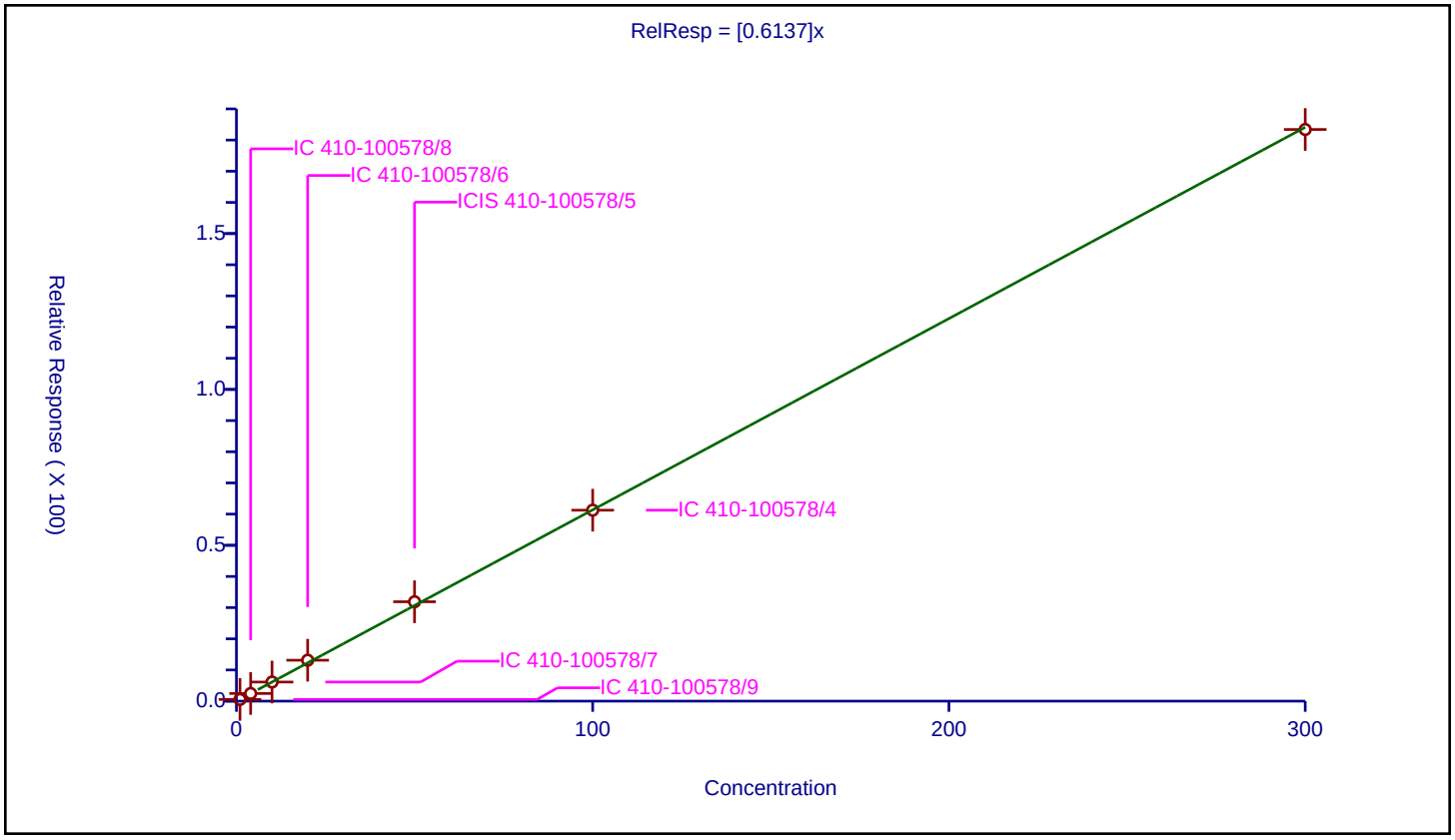
Curve Coefficients

Intercept:	0
Slope:	0.6137

Error Coefficients

Standard Error:	1830000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.549726	50.0	1114374.0	0.549726	Y
2	IC 410-100578/8	4.0	2.457615	50.0	1125115.0	0.614404	Y
3	IC 410-100578/7	10.0	6.134292	50.0	1128973.0	0.613429	Y
4	IC 410-100578/6	20.0	13.131798	50.0	1137963.0	0.65659	Y
5	ICIS 410-100578/5	50.0	31.885915	50.0	1157613.0	0.637718	Y
6	IC 410-100578/4	100.0	61.262377	50.0	1175853.0	0.612624	Y
7	IC 410-100578/3	300.0	183.392464	50.0	1137315.0	0.611308	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

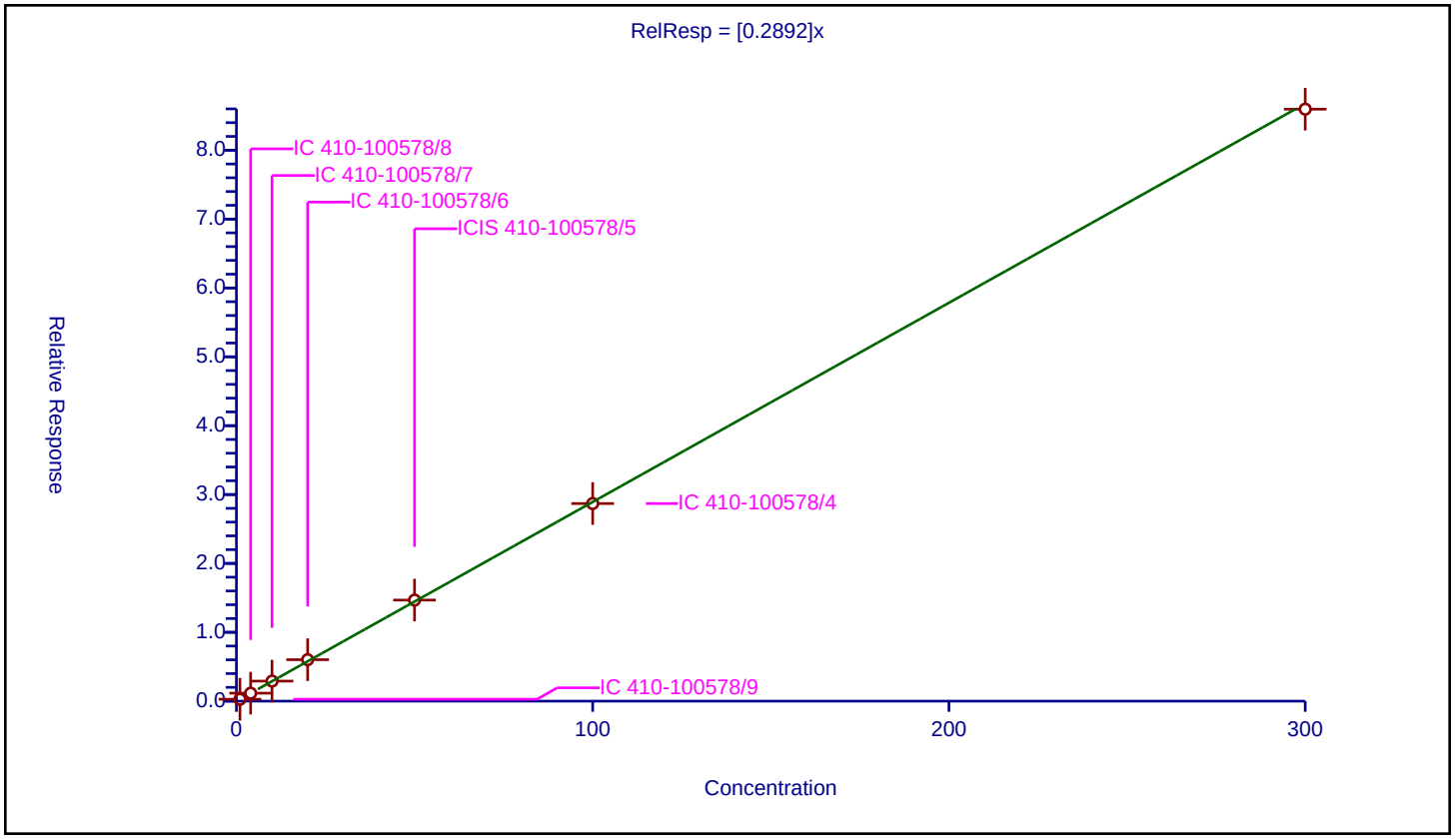
Curve Coefficients

Intercept:	0
Slope:	0.2892

Error Coefficients

Standard Error:	858000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.276523	50.0	1114374.0	0.276523	Y
2	IC 410-100578/8	4.0	1.157171	50.0	1125115.0	0.289293	Y
3	IC 410-100578/7	10.0	2.90844	50.0	1128973.0	0.290844	Y
4	IC 410-100578/6	20.0	6.018298	50.0	1137963.0	0.300915	Y
5	ICIS 410-100578/5	50.0	14.675198	50.0	1157613.0	0.293504	Y
6	IC 410-100578/4	100.0	28.69232	50.0	1175853.0	0.286923	Y
7	IC 410-100578/3	300.0	85.956177	50.0	1137315.0	0.286521	Y



Calibration / 2-ethoxy-2-methyl butane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

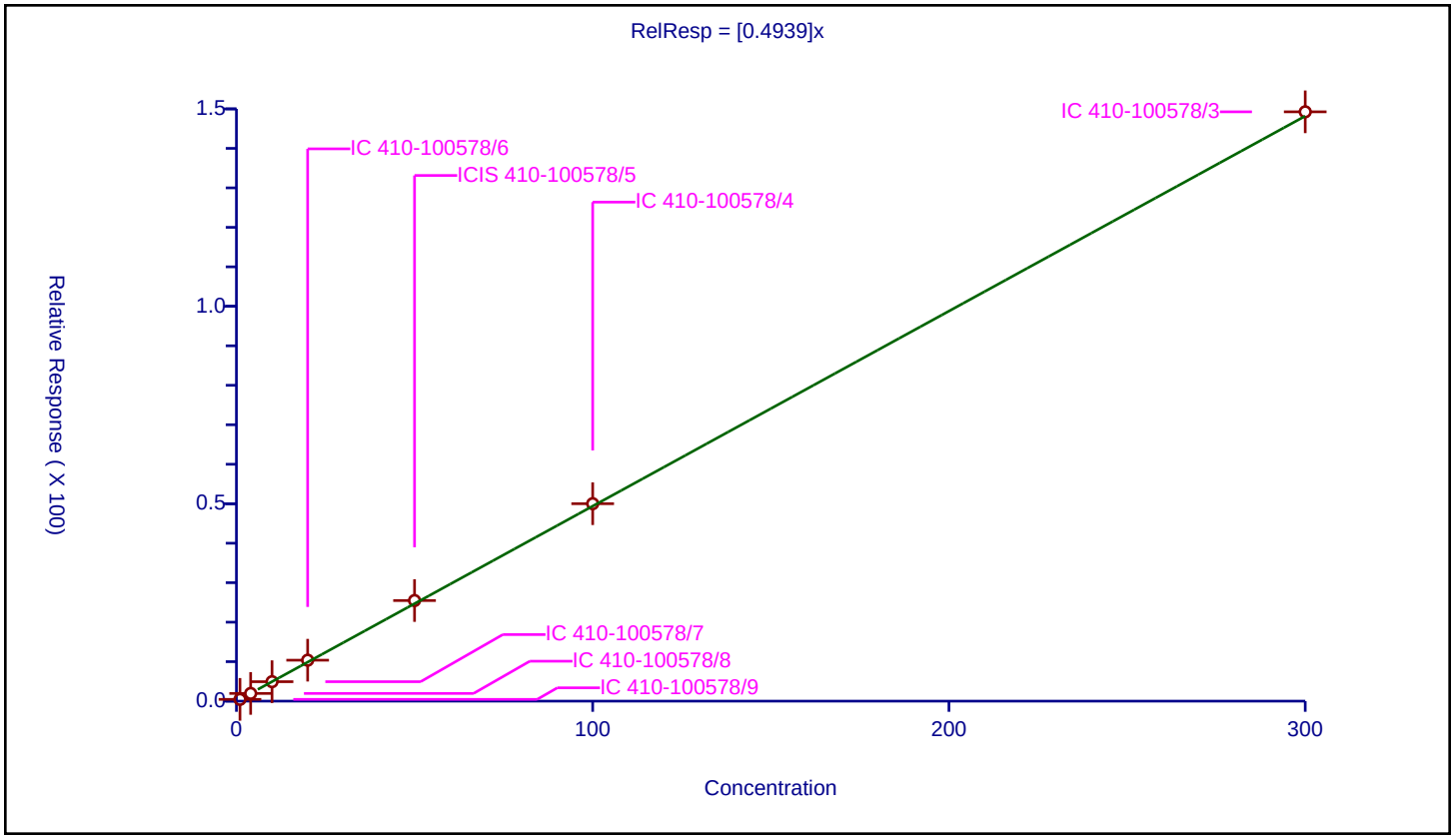
Curve Coefficients

Intercept:	0
Slope:	0.4939

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.451733	50.0	1114374.0	0.451733	Y
2	IC 410-100578/8	4.0	1.949578	50.0	1125115.0	0.487395	Y
3	IC 410-100578/7	10.0	4.925937	50.0	1128973.0	0.492594	Y
4	IC 410-100578/6	20.0	10.370372	50.0	1137963.0	0.518519	Y
5	ICIS 410-100578/5	50.0	25.481659	50.0	1157613.0	0.509633	Y
6	IC 410-100578/4	100.0	50.010631	50.0	1175853.0	0.500106	Y
7	IC 410-100578/3	300.0	149.257374	50.0	1137315.0	0.497525	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

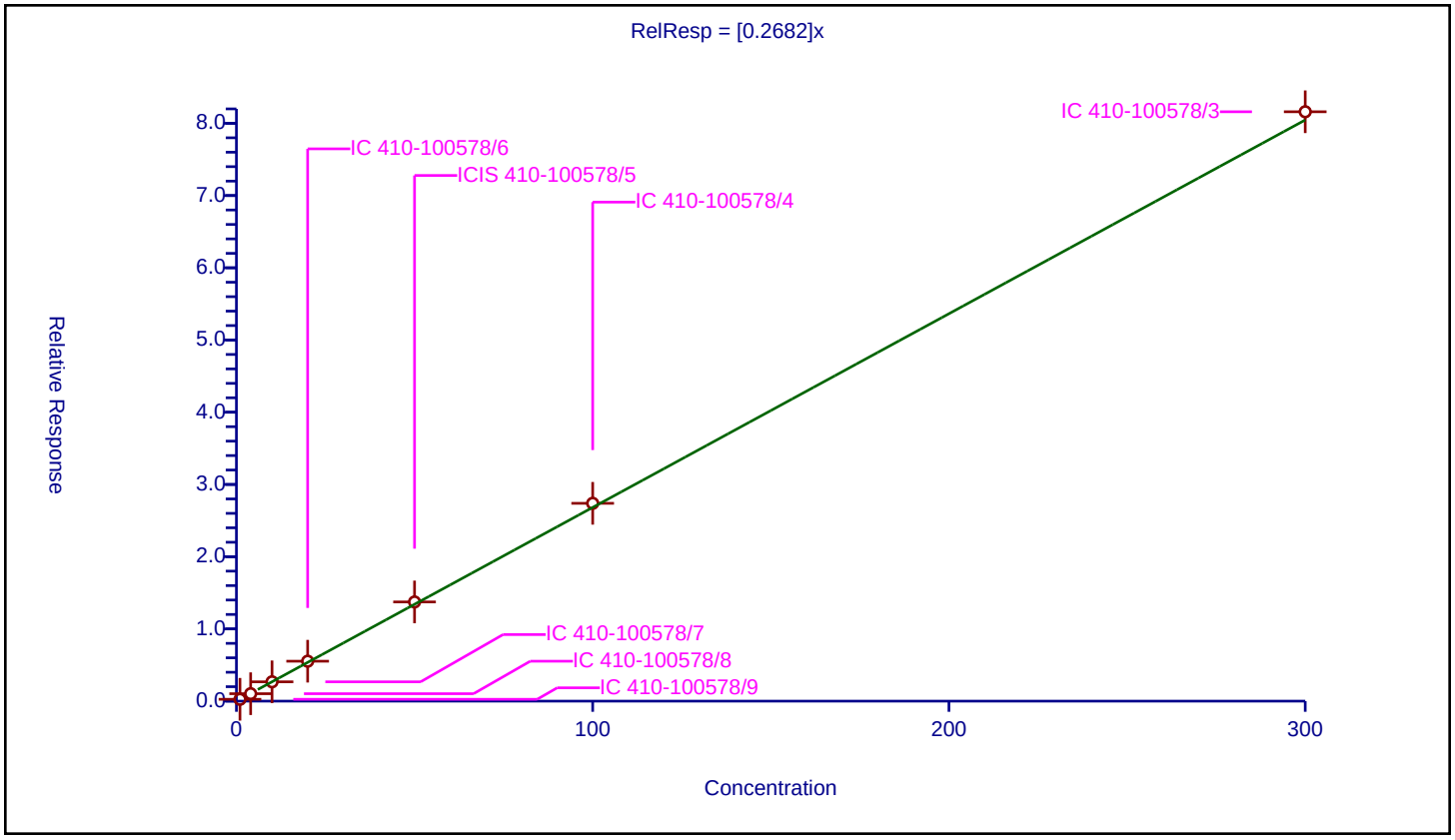
Curve Coefficients

Intercept:	0
Slope:	0.2682

Error Coefficients

Standard Error:	815000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.255569	50.0	1114374.0	0.255569	Y
2	IC 410-100578/8	4.0	1.028961	50.0	1125115.0	0.25724	Y
3	IC 410-100578/7	10.0	2.675839	50.0	1128973.0	0.267584	Y
4	IC 410-100578/6	20.0	5.529354	50.0	1137963.0	0.276468	Y
5	ICIS 410-100578/5	50.0	13.734599	50.0	1157613.0	0.274692	Y
6	IC 410-100578/4	100.0	27.389606	50.0	1175853.0	0.273896	Y
7	IC 410-100578/3	300.0	81.603074	50.0	1137315.0	0.27201	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

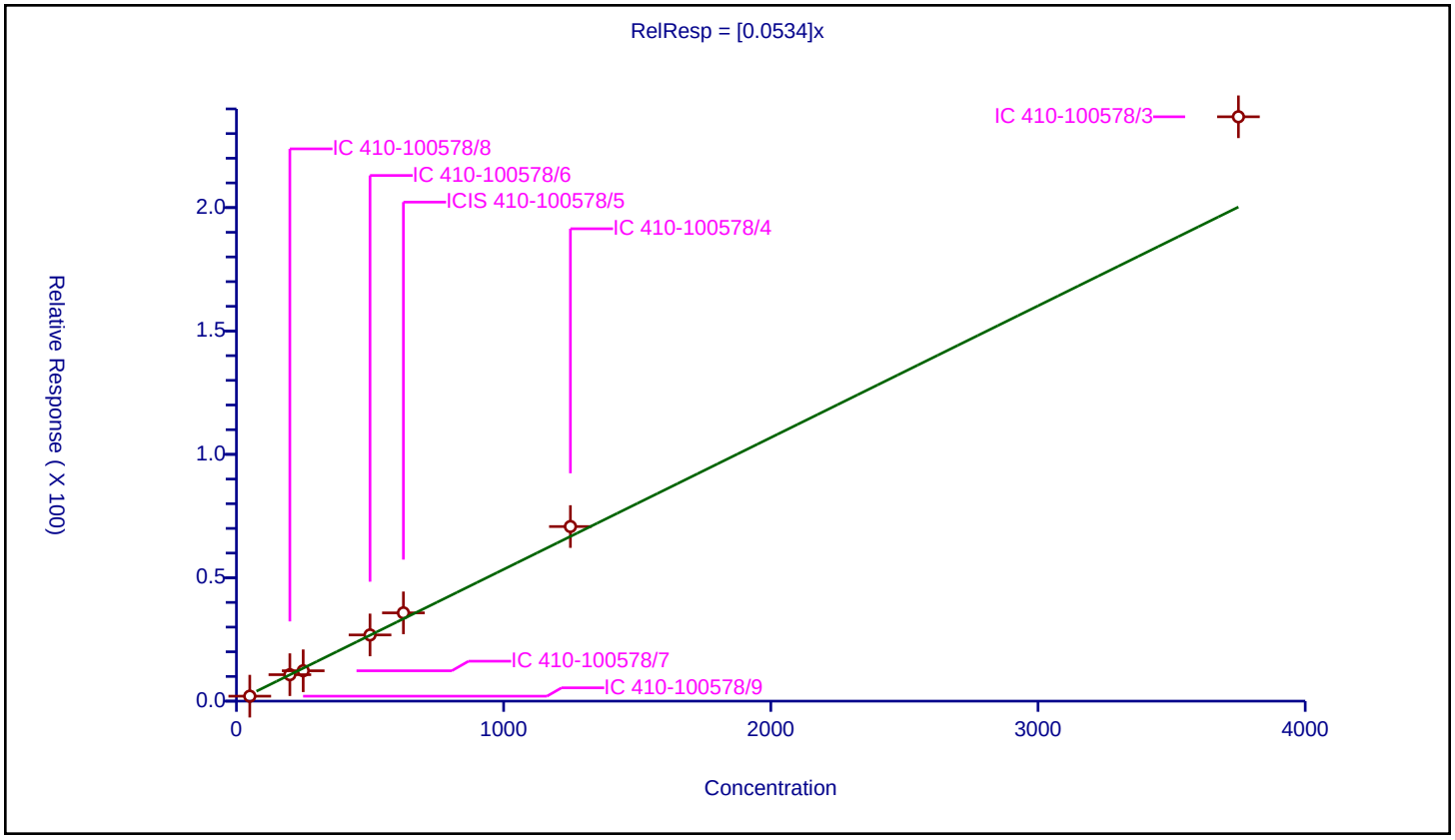
Curve Coefficients

Intercept:	0
Slope:	0.0534

Error Coefficients

Standard Error:	97400
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	50.0	2.013878	250.0	240084.0	0.040278	Y
2	IC 410-100578/8	200.0	10.722369	250.0	241691.0	0.053612	Y
3	IC 410-100578/7	250.0	12.314312	250.0	278761.0	0.049257	Y
4	IC 410-100578/6	500.0	26.823801	250.0	279910.0	0.053648	Y
5	ICIS 410-100578/5	625.0	35.772532	250.0	239744.0	0.057236	Y
6	IC 410-100578/4	1250.0	70.758334	250.0	268615.0	0.056607	Y
7	IC 410-100578/3	3750.0	236.80258	250.0	233360.0	0.063147	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

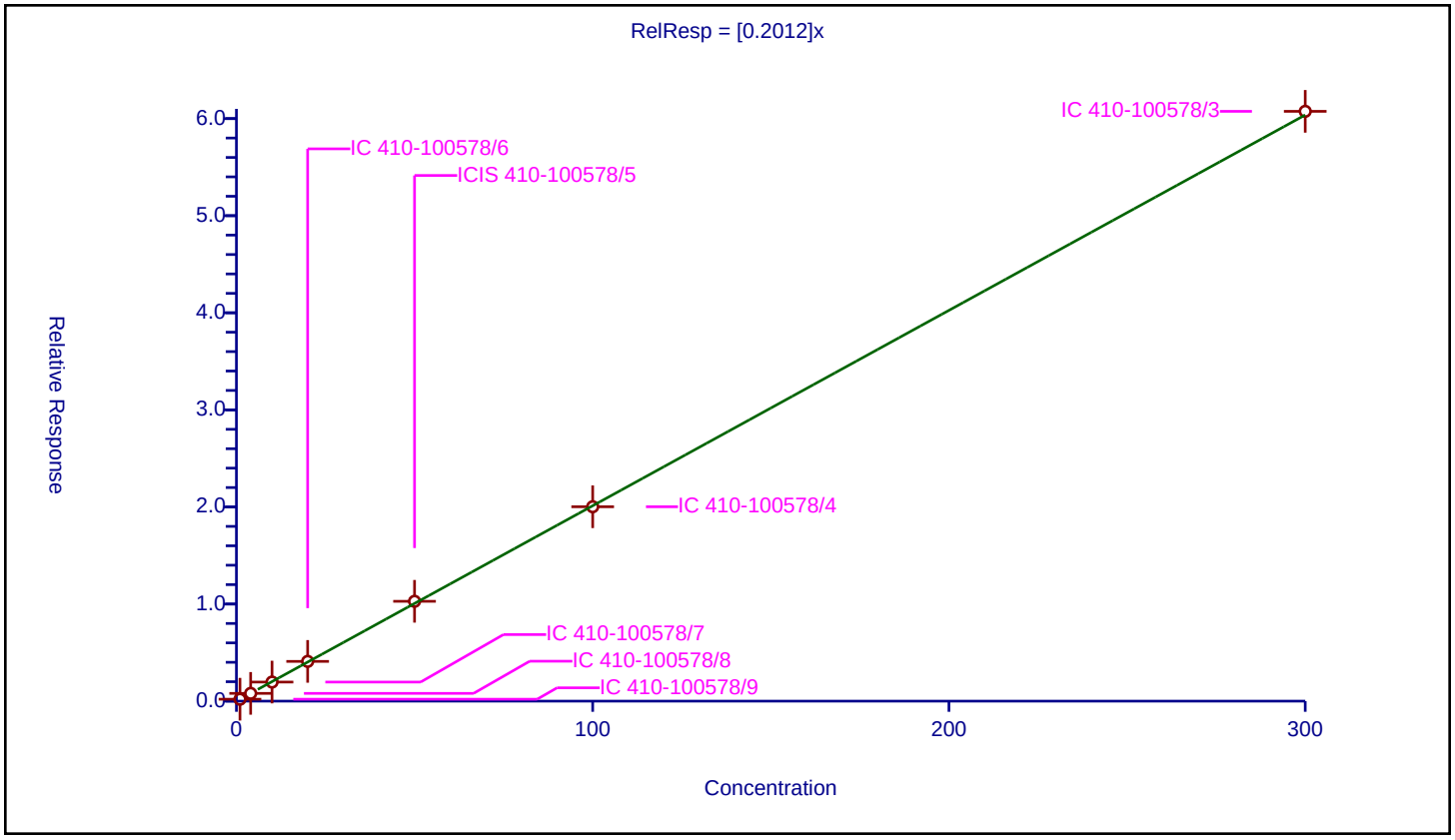
Curve Coefficients

Intercept:	0
Slope:	0.2012

Error Coefficients

Standard Error:	605000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.199394	50.0	1114374.0	0.199394	Y
2	IC 410-100578/8	4.0	0.798941	50.0	1125115.0	0.199735	Y
3	IC 410-100578/7	10.0	1.965016	50.0	1128973.0	0.196502	Y
4	IC 410-100578/6	20.0	4.093982	50.0	1137963.0	0.204699	Y
5	ICIS 410-100578/5	50.0	10.283877	50.0	1157613.0	0.205678	Y
6	IC 410-100578/4	100.0	20.020572	50.0	1175853.0	0.200206	Y
7	IC 410-100578/3	300.0	60.748122	50.0	1137315.0	0.202494	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

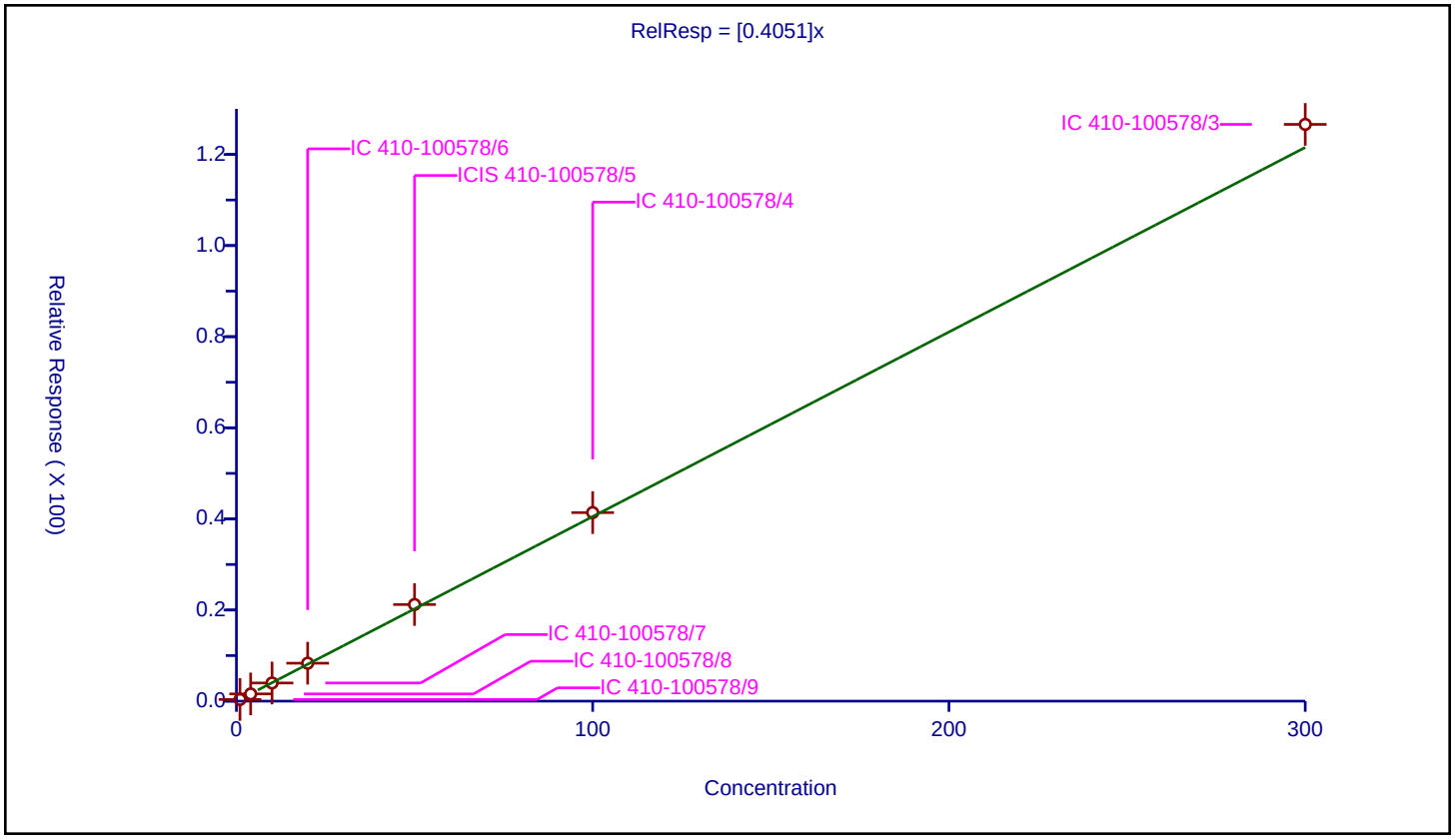
Curve Coefficients

Intercept:	0
Slope:	0.4051

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.364958	50.0	1114374.0	0.364958	Y
2	IC 410-100578/8	4.0	1.58486	50.0	1125115.0	0.396215	Y
3	IC 410-100578/7	10.0	3.983488	50.0	1128973.0	0.398349	Y
4	IC 410-100578/6	20.0	8.326809	50.0	1137963.0	0.41634	Y
5	ICIS 410-100578/5	50.0	21.209549	50.0	1157613.0	0.424191	Y
6	IC 410-100578/4	100.0	41.387784	50.0	1175853.0	0.413878	Y
7	IC 410-100578/3	300.0	126.600282	50.0	1137315.0	0.422001	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

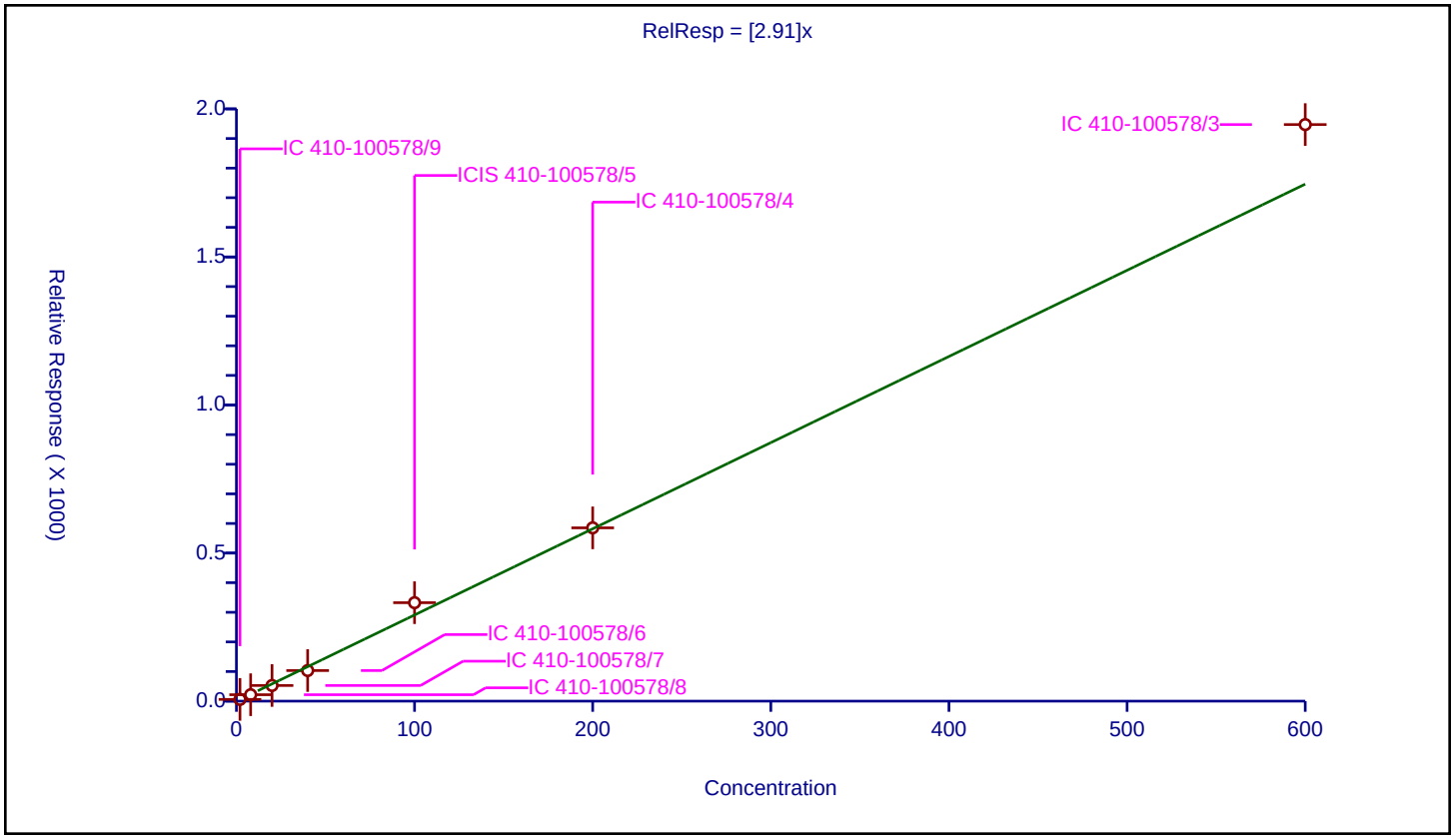
Curve Coefficients

Intercept:	0
Slope:	2.91

Error Coefficients

Standard Error:	797000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	5.866697	250.0	240084.0	2.933348	Y
2	IC 410-100578/8	8.0	21.716779	250.0	241691.0	2.714597	Y
3	IC 410-100578/7	20.0	52.83917	250.0	278761.0	2.641959	Y
4	IC 410-100578/6	40.0	103.318031	250.0	279910.0	2.582951	Y
5	ICIS 410-100578/5	100.0	332.47026	250.0	239744.0	3.324703	Y
6	IC 410-100578/4	200.0	585.219552	250.0	268615.0	2.926098	Y
7	IC 410-100578/3	600.0	1947.032482	250.0	233360.0	3.245054	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

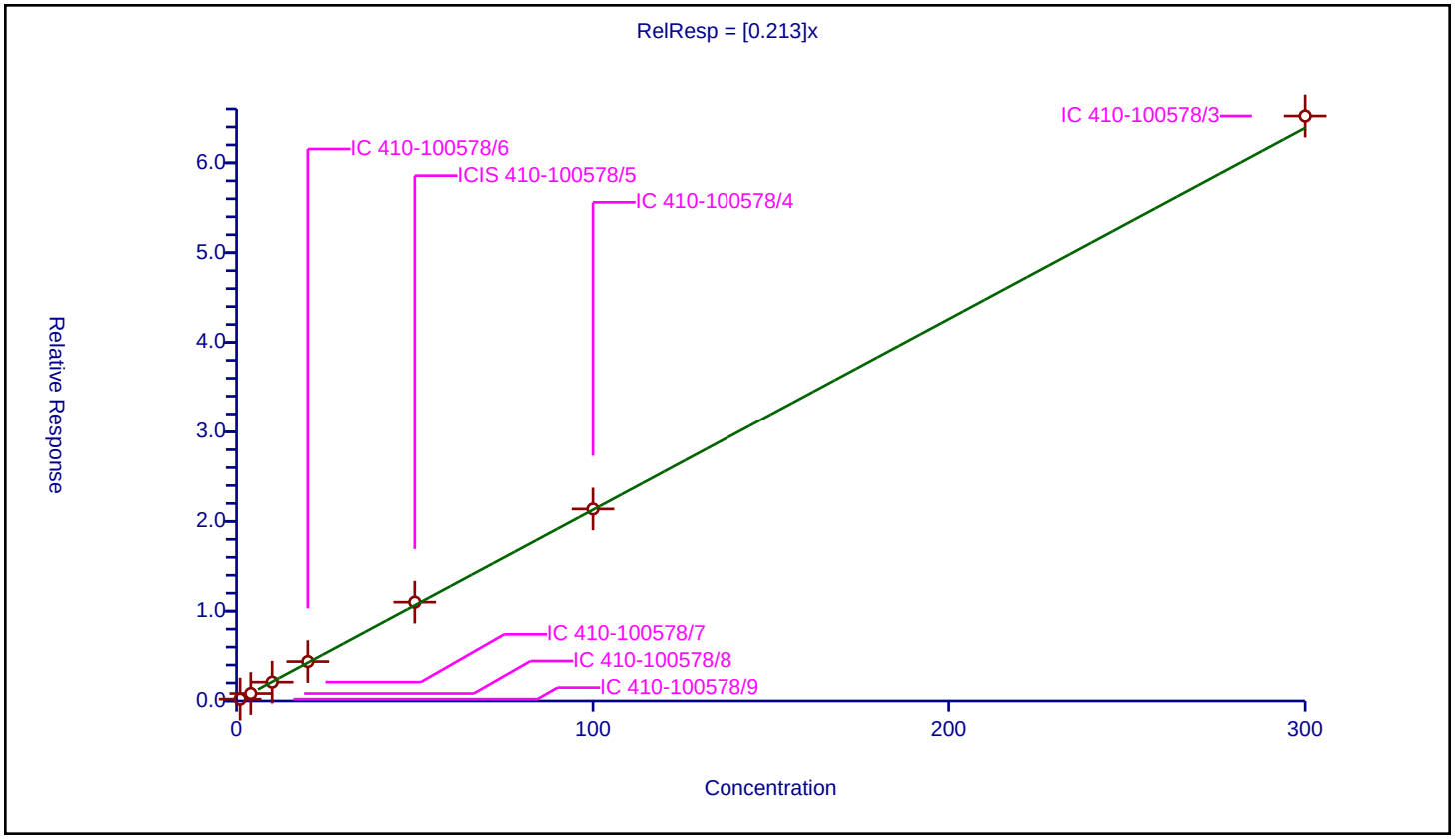
Curve Coefficients

Intercept:	0
Slope:	0.213

Error Coefficients

Standard Error:	649000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.203702	50.0	1114374.0	0.203702	Y
2	IC 410-100578/8	4.0	0.828937	50.0	1125115.0	0.207234	Y
3	IC 410-100578/7	10.0	2.094381	50.0	1128973.0	0.209438	Y
4	IC 410-100578/6	20.0	4.386654	50.0	1137963.0	0.219333	Y
5	ICIS 410-100578/5	50.0	11.001604	50.0	1157613.0	0.220032	Y
6	IC 410-100578/4	100.0	21.385454	50.0	1175853.0	0.213855	Y
7	IC 410-100578/3	300.0	65.215486	50.0	1137315.0	0.217385	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

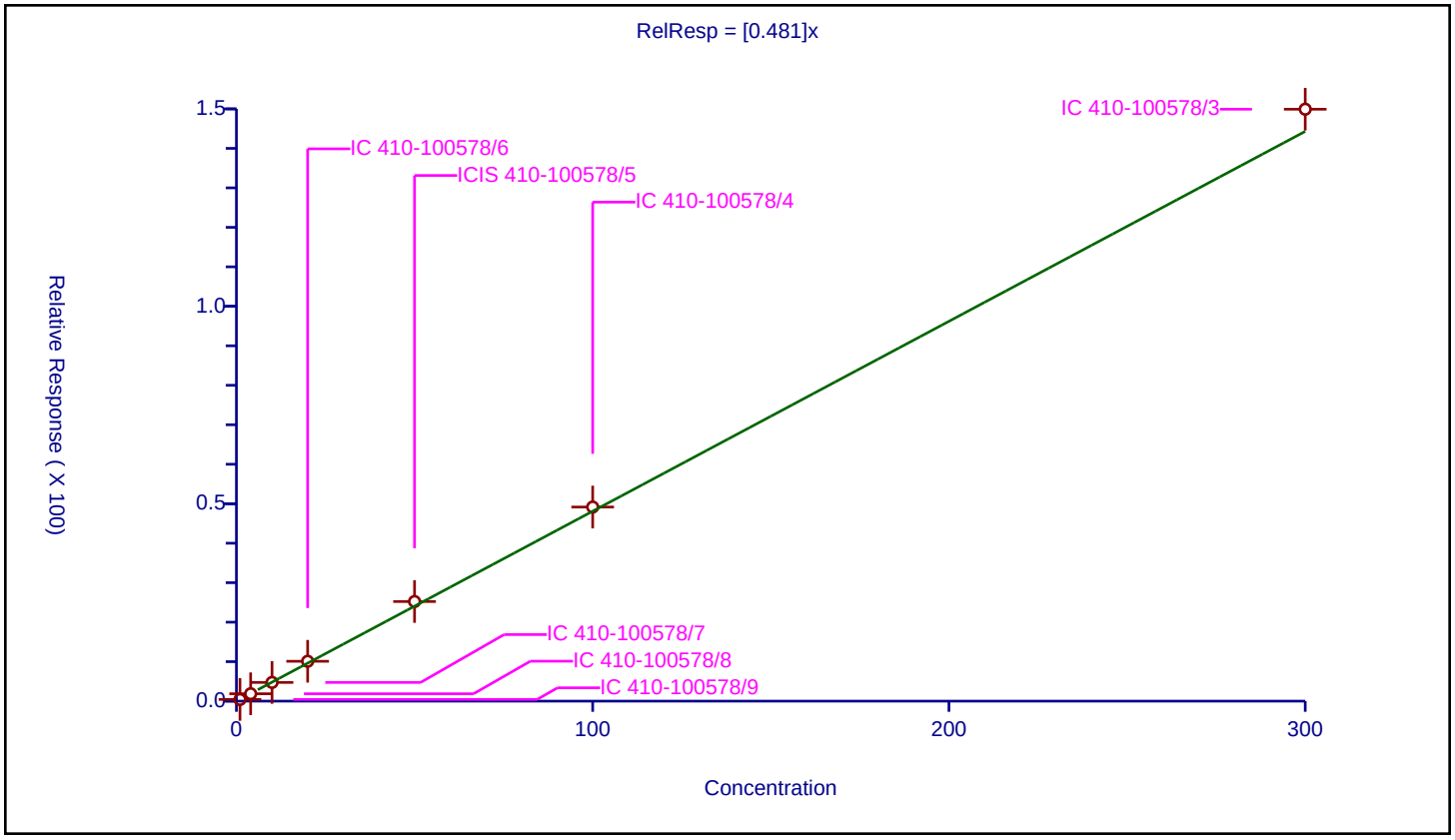
Curve Coefficients

Intercept:	0
Slope:	0.481

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.424947	50.0	1114374.0	0.424947	Y
2	IC 410-100578/8	4.0	1.869409	50.0	1125115.0	0.467352	Y
3	IC 410-100578/7	10.0	4.739883	50.0	1128973.0	0.473988	Y
4	IC 410-100578/6	20.0	10.094045	50.0	1137963.0	0.504702	Y
5	ICIS 410-100578/5	50.0	25.234167	50.0	1157613.0	0.504683	Y
6	IC 410-100578/4	100.0	49.158866	50.0	1175853.0	0.491589	Y
7	IC 410-100578/3	300.0	149.918097	50.0	1137315.0	0.499727	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

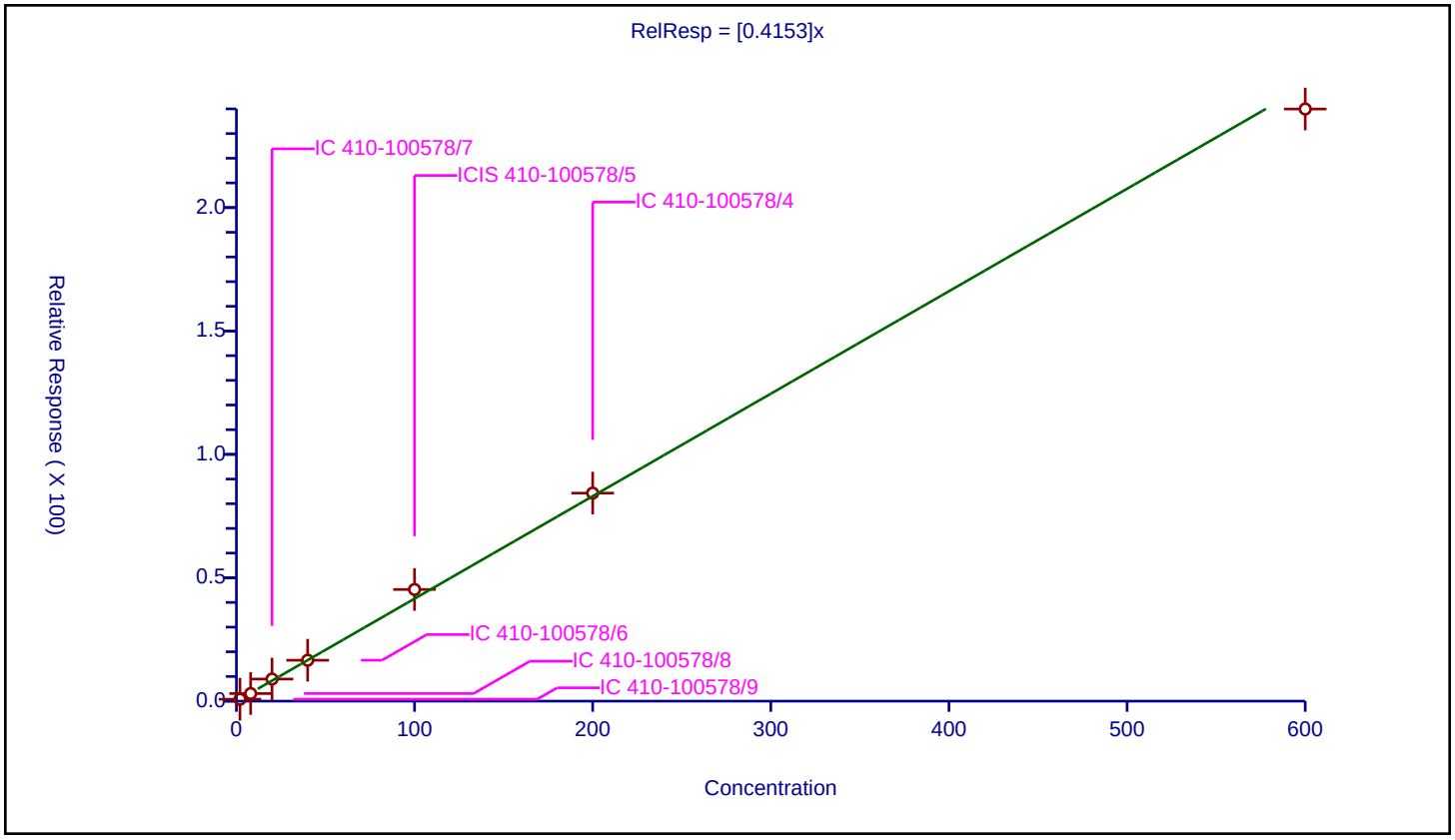
Curve Coefficients

Intercept:	0
Slope:	0.4153

Error Coefficients

Standard Error:	2420000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	0.770657	50.0	1114374.0	0.385328	Y
2	IC 410-100578/8	8.0	3.085729	50.0	1125115.0	0.385716	Y
3	IC 410-100578/7	20.0	8.951233	50.0	1128973.0	0.447562	Y
4	IC 410-100578/6	40.0	16.577165	50.0	1137963.0	0.414429	Y
5	ICIS 410-100578/5	100.0	45.247332	50.0	1157613.0	0.452473	Y
6	IC 410-100578/4	200.0	84.295699	50.0	1175853.0	0.421478	Y
7	IC 410-100578/3	600.0	239.948651	50.0	1137315.0	0.399914	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

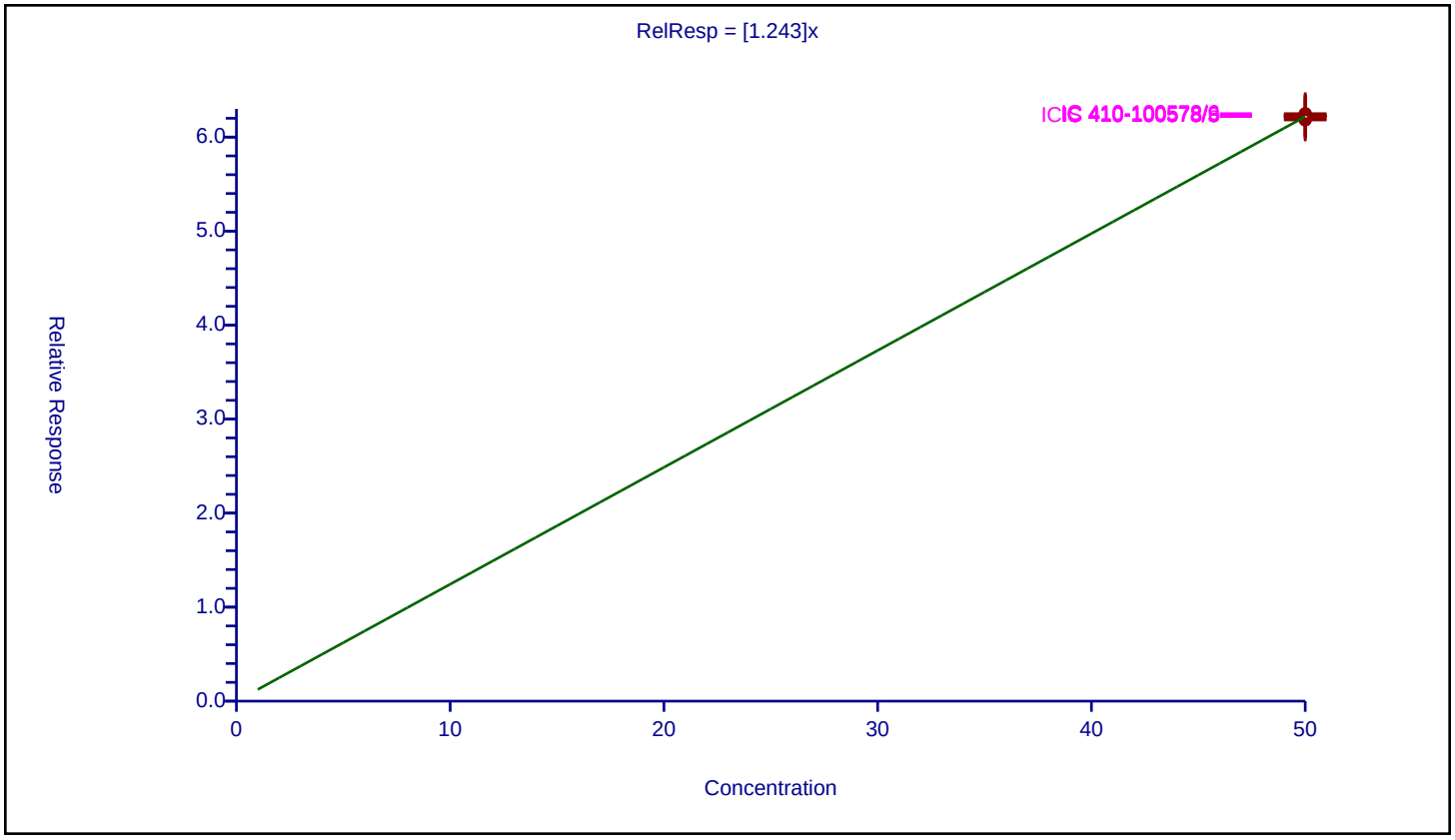
Curve Coefficients

Intercept:	0
Slope:	1.243

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	0.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/3	50.0	62.200813	50.0	941593.0	1.244016	Y
2	IC 410-100578/4	50.0	61.822464	50.0	965188.0	1.236449	Y
3	ICIS 410-100578/5	50.0	62.199469	50.0	956599.0	1.243989	Y
4	IC 410-100578/6	50.0	62.493951	50.0	927813.0	1.249879	Y
5	IC 410-100578/7	50.0	61.940577	50.0	935026.0	1.238812	Y
6	IC 410-100578/8	50.0	62.206028	50.0	920242.0	1.244121	Y
7	IC 410-100578/9	50.0	62.356771	50.0	910080.0	1.247135	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

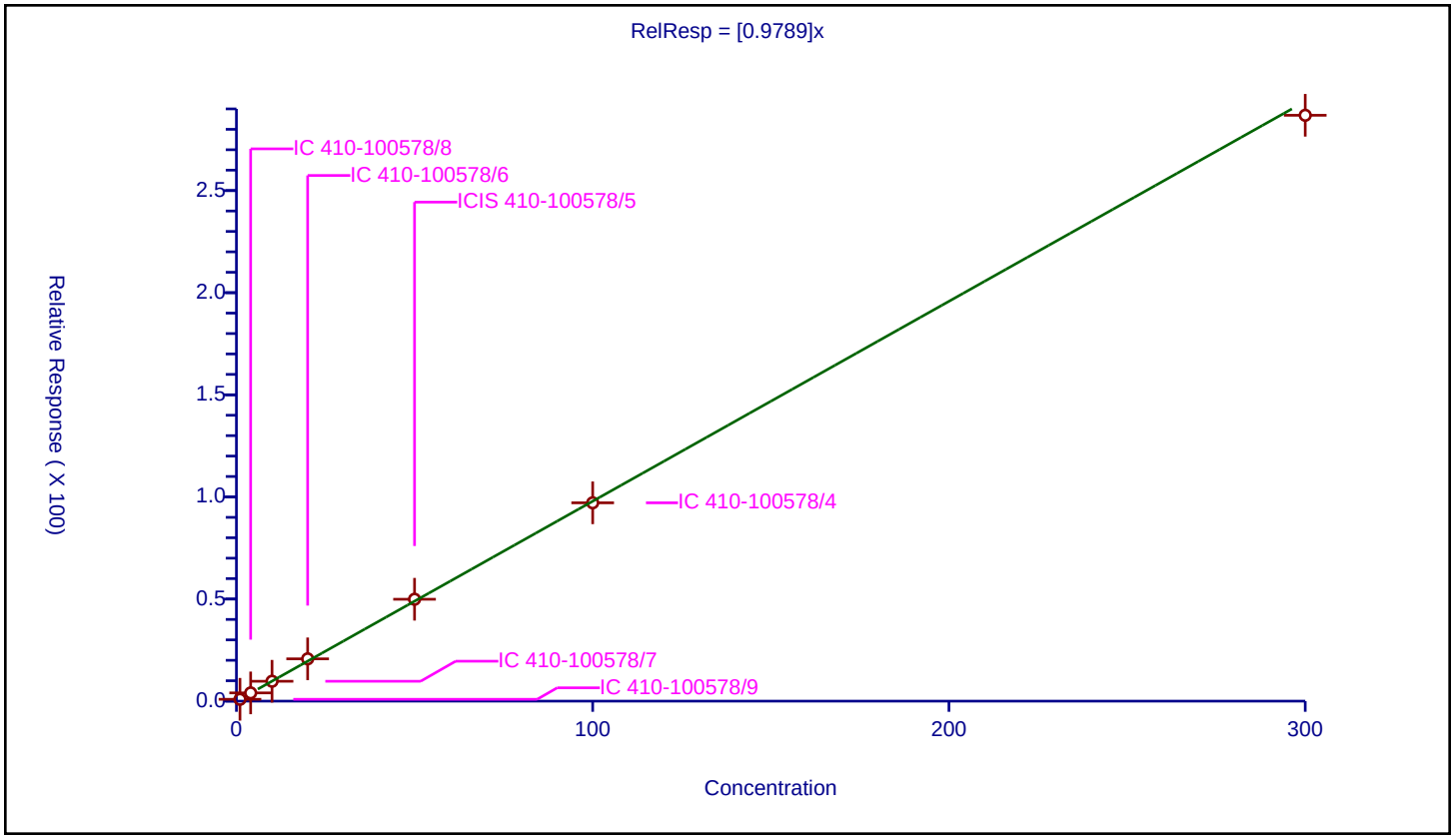
Curve Coefficients

Intercept:	0
Slope:	0.9789

Error Coefficients

Standard Error:	2370000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.909535	50.0	910080.0	0.909535	Y
2	IC 410-100578/8	4.0	4.032961	50.0	920242.0	1.00824	Y
3	IC 410-100578/7	10.0	9.734275	50.0	935026.0	0.973427	Y
4	IC 410-100578/6	20.0	20.714842	50.0	927813.0	1.035742	Y
5	ICIS 410-100578/5	50.0	49.888825	50.0	956599.0	0.997776	Y
6	IC 410-100578/4	100.0	97.111288	50.0	965188.0	0.971113	Y
7	IC 410-100578/3	300.0	286.874053	50.0	941593.0	0.956247	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

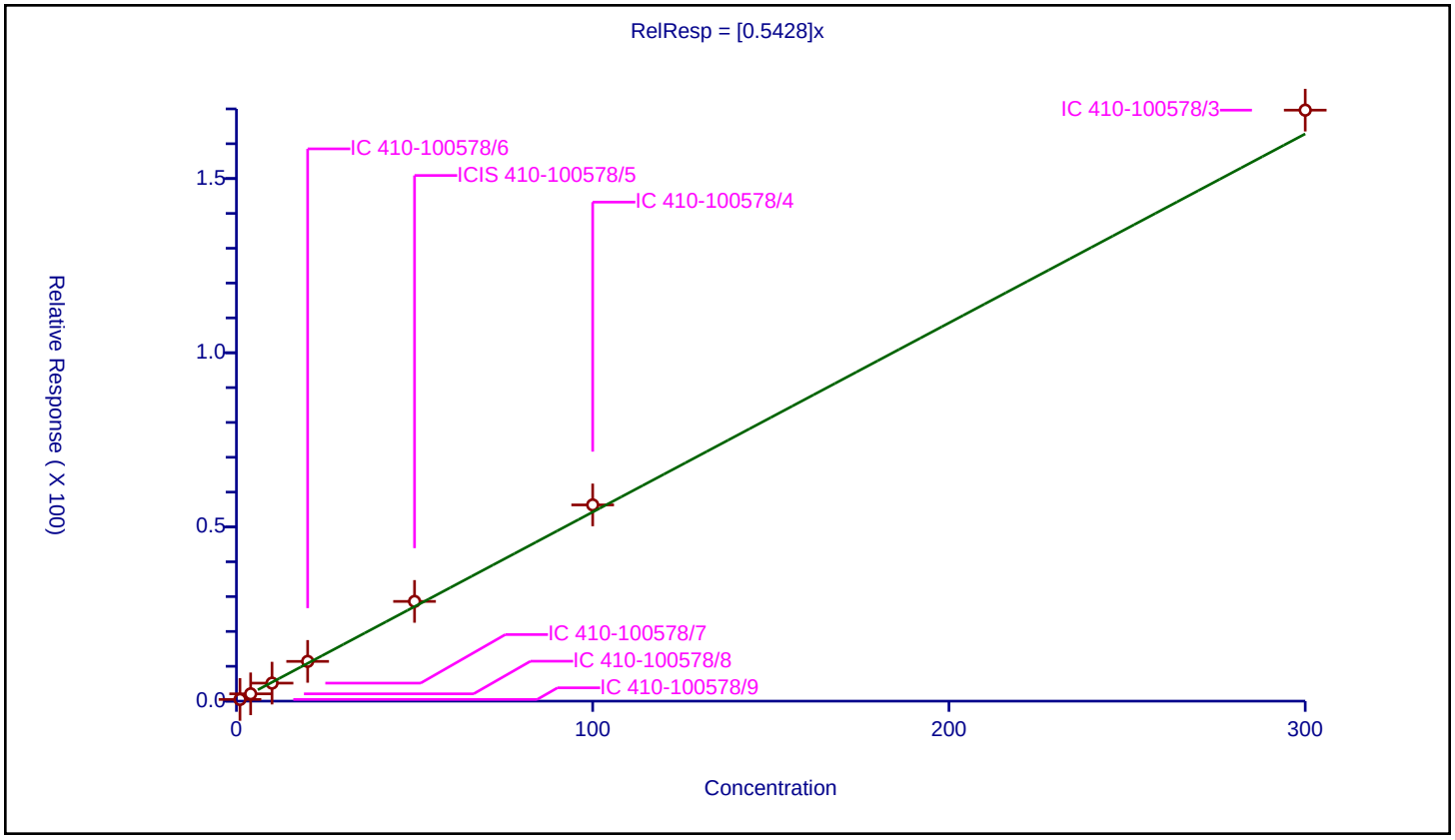
Curve Coefficients

Intercept:	0
Slope:	0.5428

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.485672	50.0	910080.0	0.485672	Y
2	IC 410-100578/8	4.0	2.098633	50.0	920242.0	0.524658	Y
3	IC 410-100578/7	10.0	5.172263	50.0	935026.0	0.517226	Y
4	IC 410-100578/6	20.0	11.410758	50.0	927813.0	0.570538	Y
5	ICIS 410-100578/5	50.0	28.626624	50.0	956599.0	0.572532	Y
6	IC 410-100578/4	100.0	56.327265	50.0	965188.0	0.563273	Y
7	IC 410-100578/3	300.0	169.638793	50.0	941593.0	0.565463	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

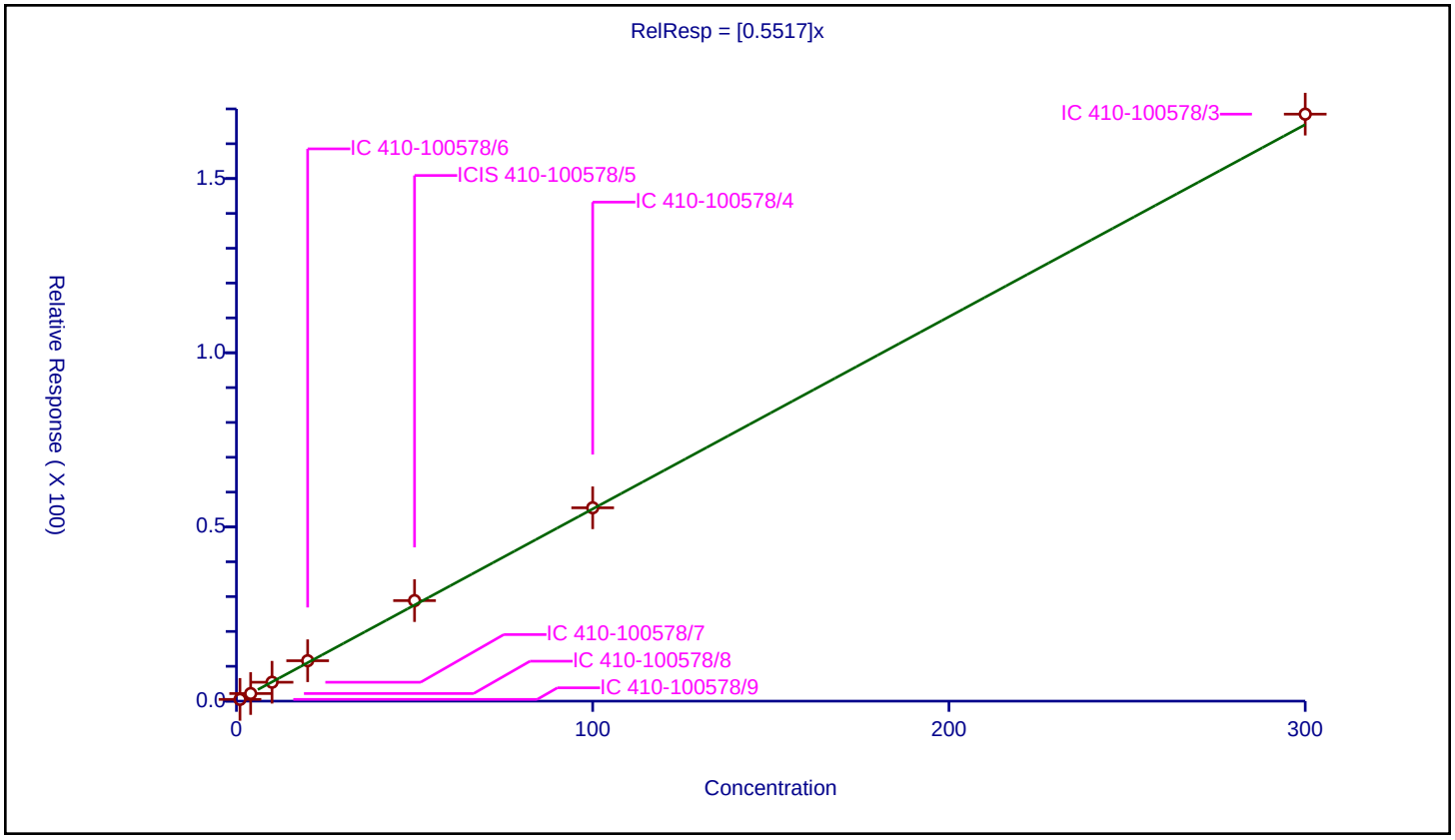
Curve Coefficients

Intercept:	0
Slope:	0.5517

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.500176	50.0	910080.0	0.500176	Y
2	IC 410-100578/8	4.0	2.18122	50.0	920242.0	0.545305	Y
3	IC 410-100578/7	10.0	5.422309	50.0	935026.0	0.542231	Y
4	IC 410-100578/6	20.0	11.601907	50.0	927813.0	0.580095	Y
5	ICIS 410-100578/5	50.0	28.857076	50.0	956599.0	0.577142	Y
6	IC 410-100578/4	100.0	55.499809	50.0	965188.0	0.554998	Y
7	IC 410-100578/3	300.0	168.493978	50.0	941593.0	0.561647	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

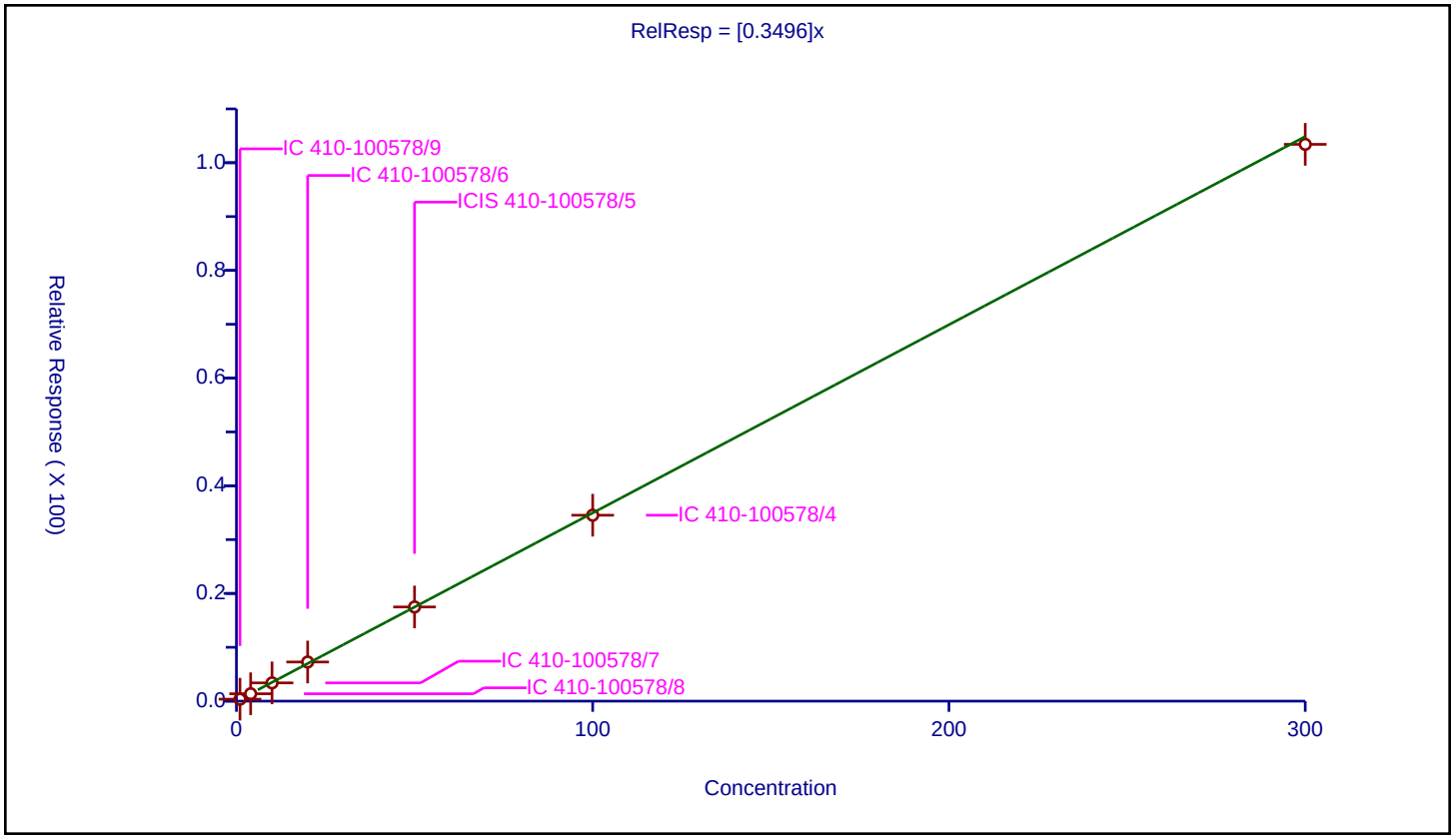
Curve Coefficients

Intercept:	0
Slope:	0.3496

Error Coefficients

Standard Error:	854000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.361122	50.0	910080.0	0.361122	Y
2	IC 410-100578/8	4.0	1.374149	50.0	920242.0	0.343537	Y
3	IC 410-100578/7	10.0	3.389906	50.0	935026.0	0.338991	Y
4	IC 410-100578/6	20.0	7.268383	50.0	927813.0	0.363419	Y
5	ICIS 410-100578/5	50.0	17.489617	50.0	956599.0	0.349792	Y
6	IC 410-100578/4	100.0	34.529128	50.0	965188.0	0.345291	Y
7	IC 410-100578/3	300.0	103.415542	50.0	941593.0	0.344718	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

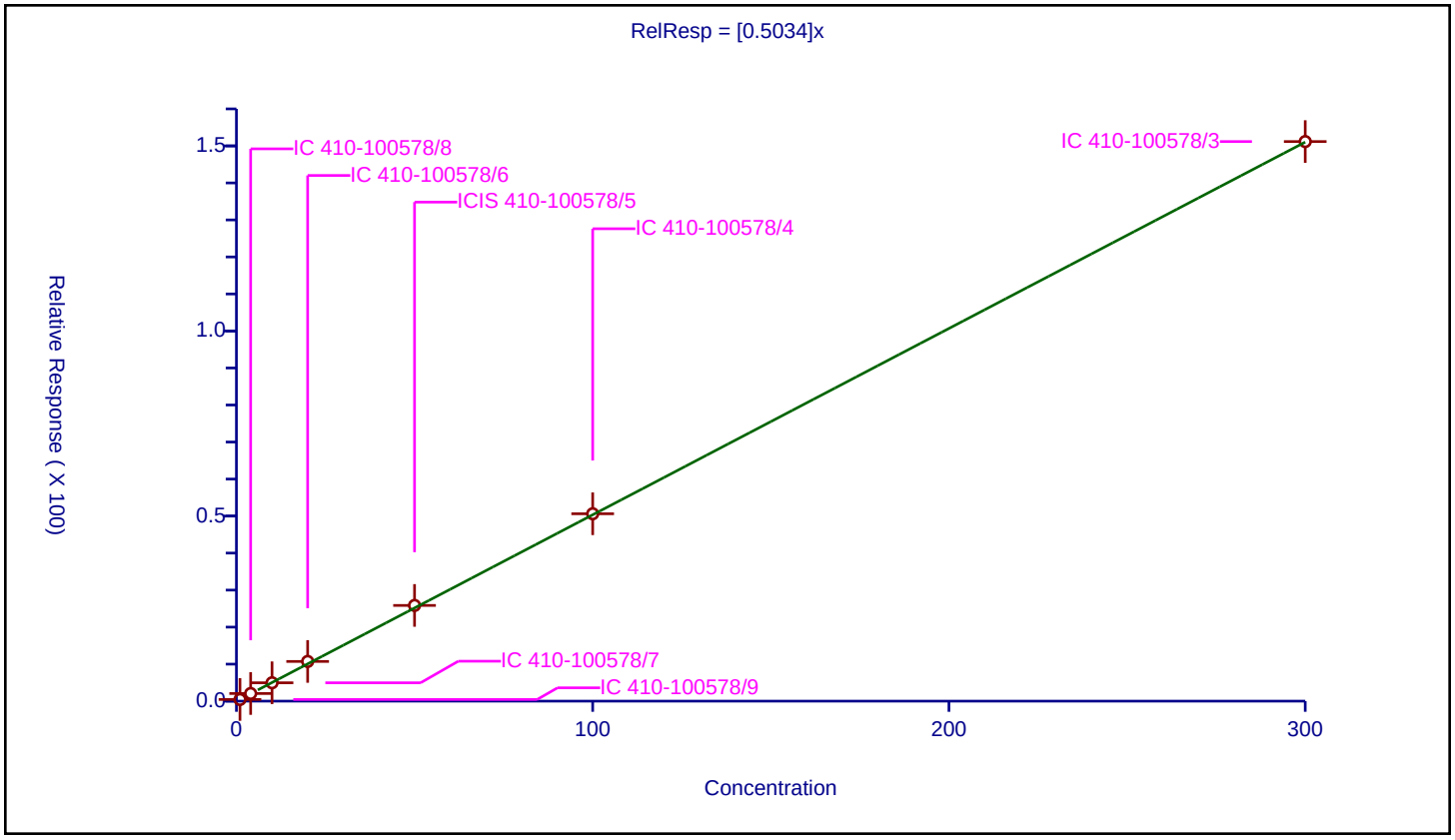
Curve Coefficients

Intercept:	0
Slope:	0.5034

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.449026	50.0	910080.0	0.449026	Y
2	IC 410-100578/8	4.0	2.061523	50.0	920242.0	0.515381	Y
3	IC 410-100578/7	10.0	4.959274	50.0	935026.0	0.495927	Y
4	IC 410-100578/6	20.0	10.727916	50.0	927813.0	0.536396	Y
5	ICIS 410-100578/5	50.0	25.854407	50.0	956599.0	0.517088	Y
6	IC 410-100578/4	100.0	50.619776	50.0	965188.0	0.506198	Y
7	IC 410-100578/3	300.0	151.173596	50.0	941593.0	0.503912	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

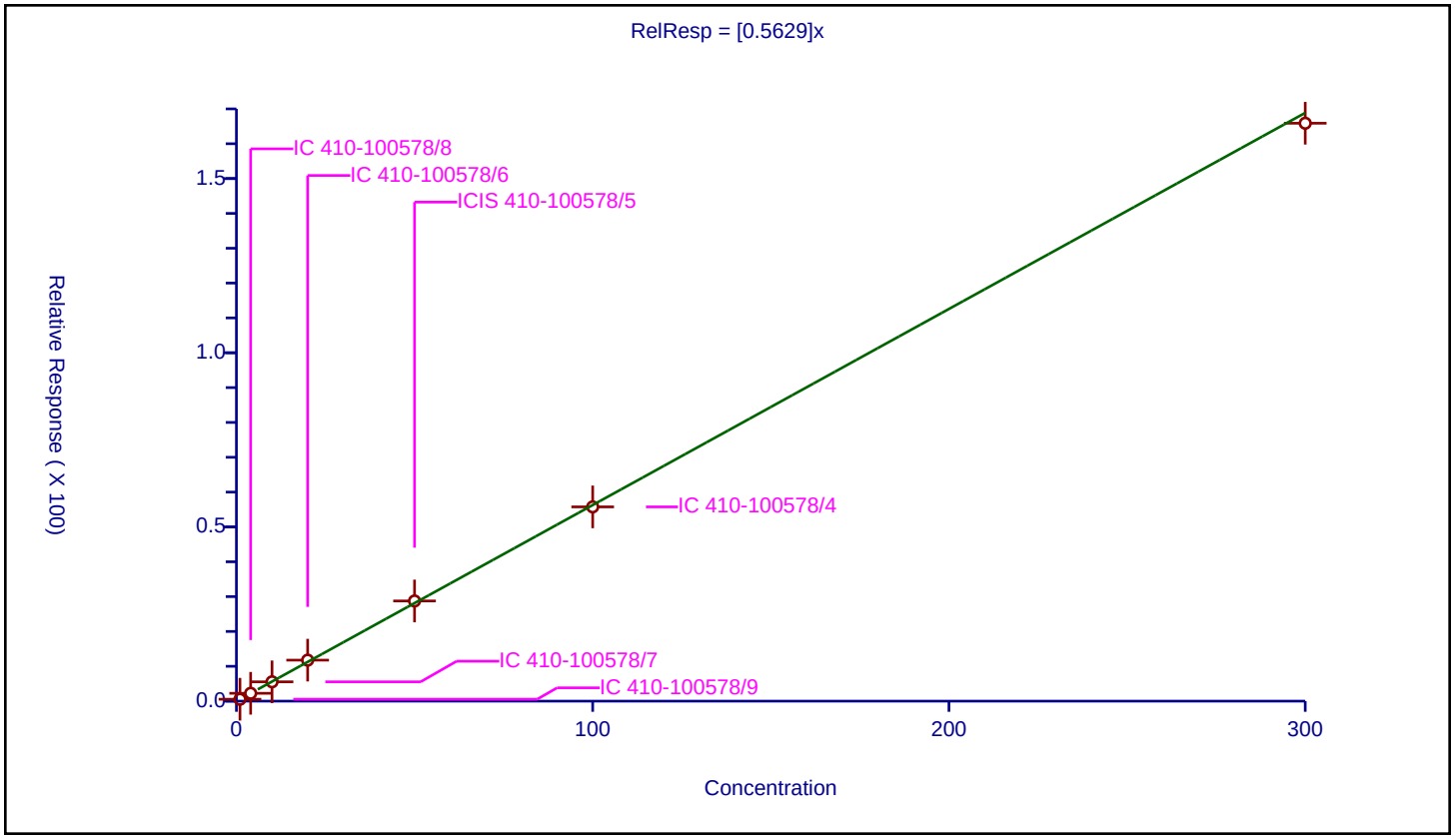
Curve Coefficients

Intercept:	0
Slope:	0.5629

Error Coefficients

Standard Error:	1370000
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 410-100578/9	1.0	0.547644	50.0	910080.0	0.547644	Y
2	IC 410-100578/8	4.0	2.254298	50.0	920242.0	0.563575	Y
3	IC 410-100578/7	10.0	5.548455	50.0	935026.0	0.554846	Y
4	IC 410-100578/6	20.0	11.766487	50.0	927813.0	0.588324	Y
5	ICIS 410-100578/5	50.0	28.753584	50.0	956599.0	0.575072	Y
6	IC 410-100578/4	100.0	55.757324	50.0	965188.0	0.557573	Y
7	IC 410-100578/3	300.0	165.878357	50.0	941593.0	0.552928	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

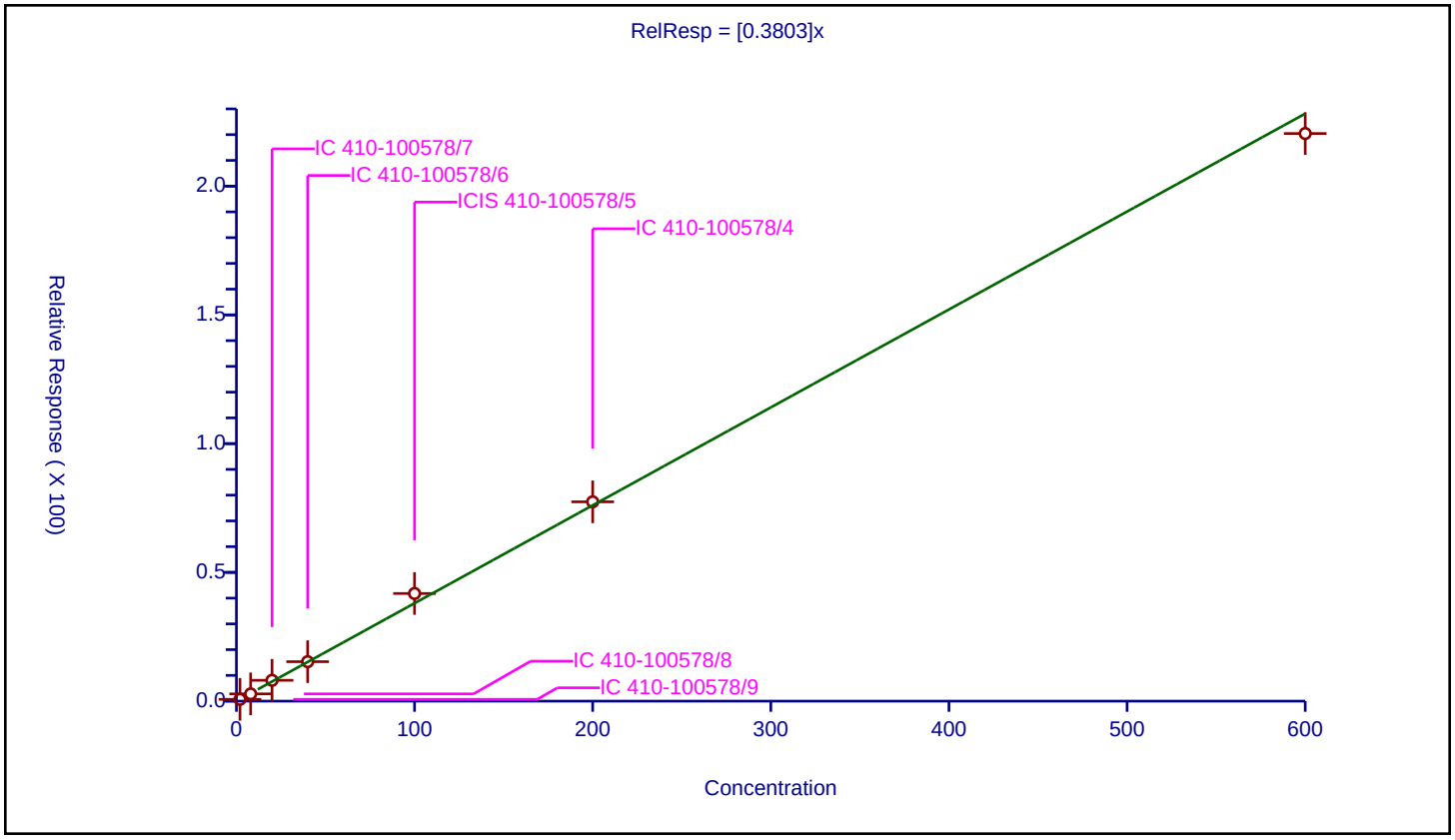
Curve Coefficients

Intercept:	0
Slope:	0.3803

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	0.697686	50.0	910080.0	0.348843	Y
2	IC 410-100578/8	8.0	2.819965	50.0	920242.0	0.352496	Y
3	IC 410-100578/7	20.0	8.097636	50.0	935026.0	0.404882	Y
4	IC 410-100578/6	40.0	15.325286	50.0	927813.0	0.383132	Y
5	ICIS 410-100578/5	100.0	41.800849	50.0	956599.0	0.418008	Y
6	IC 410-100578/4	200.0	77.405127	50.0	965188.0	0.387026	Y
7	IC 410-100578/3	600.0	220.432395	50.0	941593.0	0.367387	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

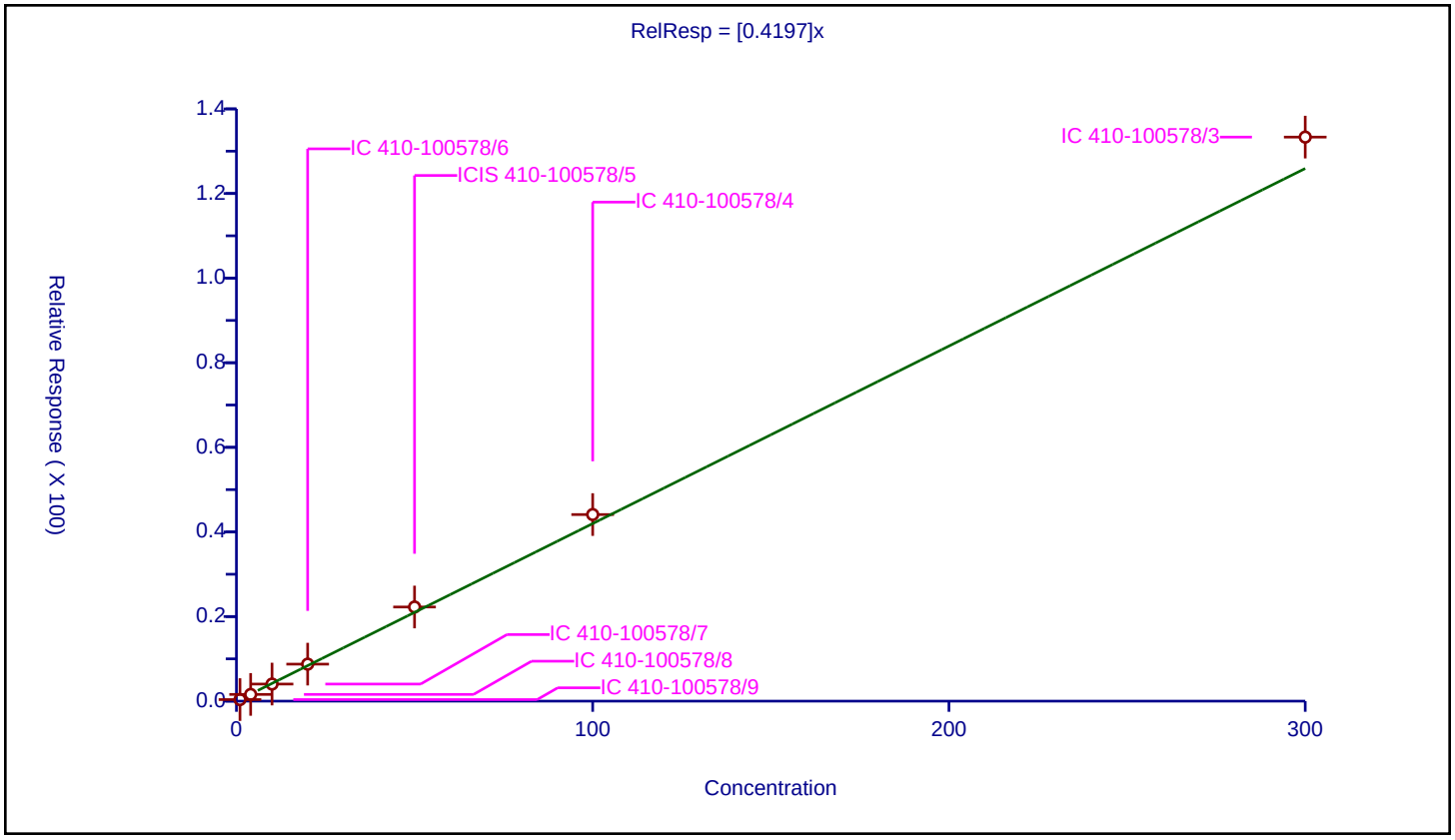
Curve Coefficients

Intercept:	0
Slope:	0.4197

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.368759	50.0	910080.0	0.368759	Y
2	IC 410-100578/8	4.0	1.588713	50.0	920242.0	0.397178	Y
3	IC 410-100578/7	10.0	4.038711	50.0	935026.0	0.403871	Y
4	IC 410-100578/6	20.0	8.749177	50.0	927813.0	0.437459	Y
5	ICIS 410-100578/5	50.0	22.254414	50.0	956599.0	0.445088	Y
6	IC 410-100578/4	100.0	44.106122	50.0	965188.0	0.441061	Y
7	IC 410-100578/3	300.0	133.331652	50.0	941593.0	0.444439	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

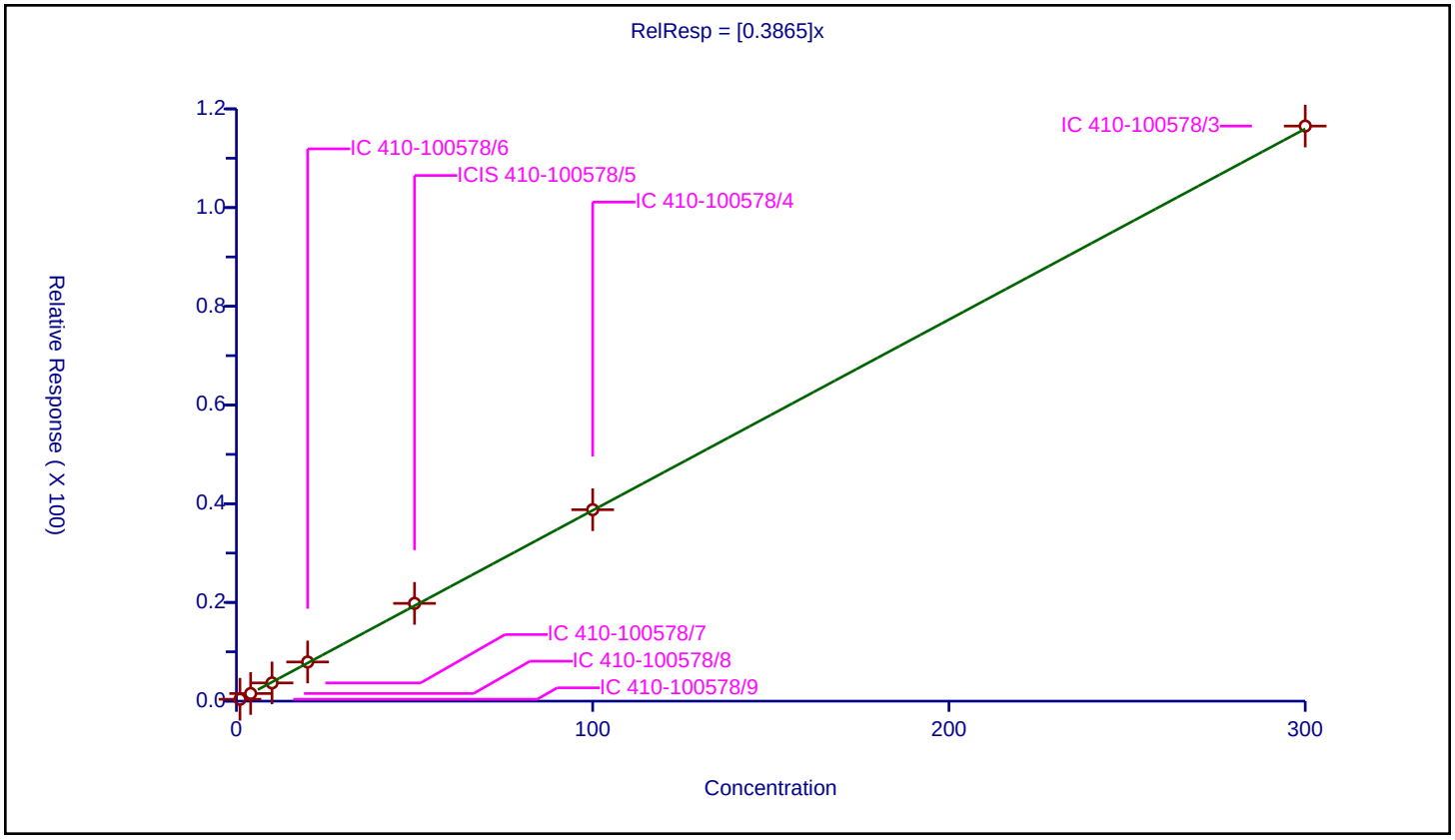
Curve Coefficients

Intercept:	0
Slope:	0.3865

Error Coefficients

Standard Error:	961000
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 410-100578/9	1.0	0.38101	50.0	910080.0	0.38101	Y
2	IC 410-100578/8	4.0	1.544757	50.0	920242.0	0.386189	Y
3	IC 410-100578/7	10.0	3.693587	50.0	935026.0	0.369359	Y
4	IC 410-100578/6	20.0	7.934411	50.0	927813.0	0.396721	Y
5	ICIS 410-100578/5	50.0	19.807621	50.0	956599.0	0.396152	Y
6	IC 410-100578/4	100.0	38.788868	50.0	965188.0	0.387889	Y
7	IC 410-100578/3	300.0	116.521363	50.0	941593.0	0.388405	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

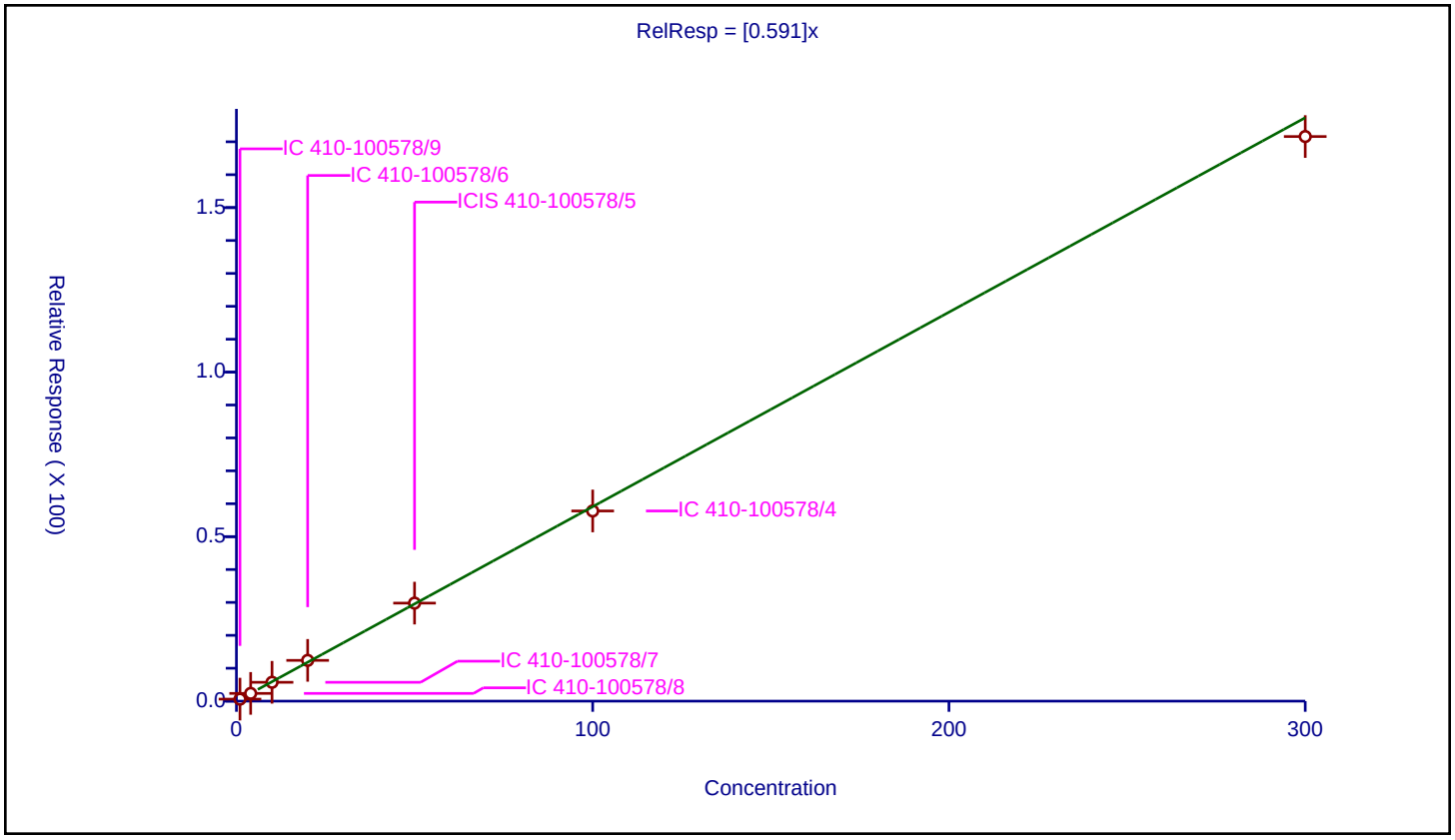
Curve Coefficients

Intercept:	0
Slope:	0.591

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.611375	50.0	910080.0	0.611375	Y
2	IC 410-100578/8	4.0	2.351012	50.0	920242.0	0.587753	Y
3	IC 410-100578/7	10.0	5.729306	50.0	935026.0	0.572931	Y
4	IC 410-100578/6	20.0	12.38838	50.0	927813.0	0.619419	Y
5	ICIS 410-100578/5	50.0	29.79378	50.0	956599.0	0.595876	Y
6	IC 410-100578/4	100.0	57.799102	50.0	965188.0	0.577991	Y
7	IC 410-100578/3	300.0	171.594946	50.0	941593.0	0.571983	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

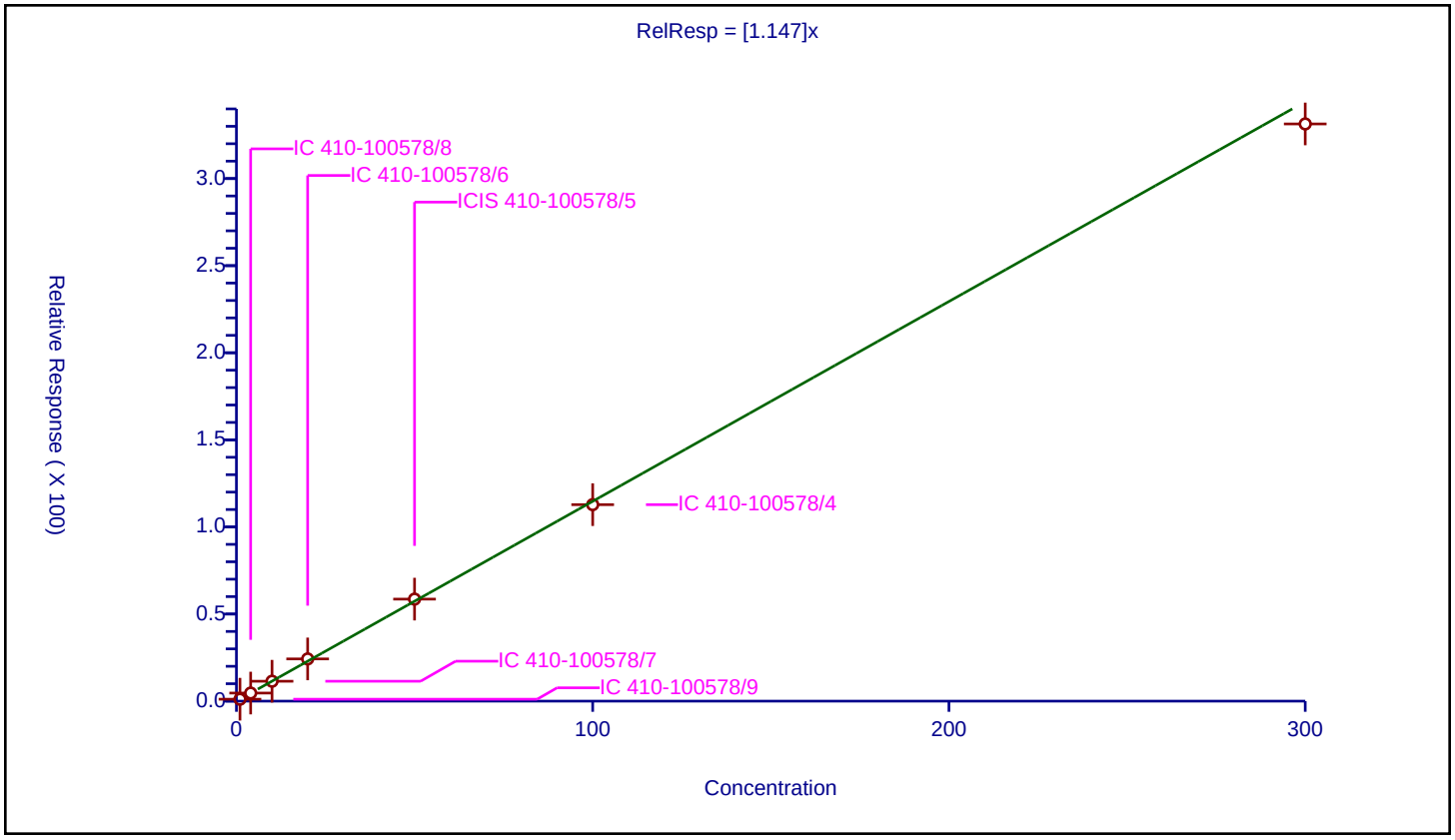
Curve Coefficients

Intercept:	0
Slope:	1.147

Error Coefficients

Standard Error:	2740000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.110122	50.0	910080.0	1.110122	Y
2	IC 410-100578/8	4.0	4.642692	50.0	920242.0	1.160673	Y
3	IC 410-100578/7	10.0	11.435457	50.0	935026.0	1.143546	Y
4	IC 410-100578/6	20.0	24.238397	50.0	927813.0	1.21192	Y
5	ICIS 410-100578/5	50.0	58.575119	50.0	956599.0	1.171502	Y
6	IC 410-100578/4	100.0	112.796782	50.0	965188.0	1.127968	Y
7	IC 410-100578/3	300.0	331.366631	50.0	941593.0	1.104555	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

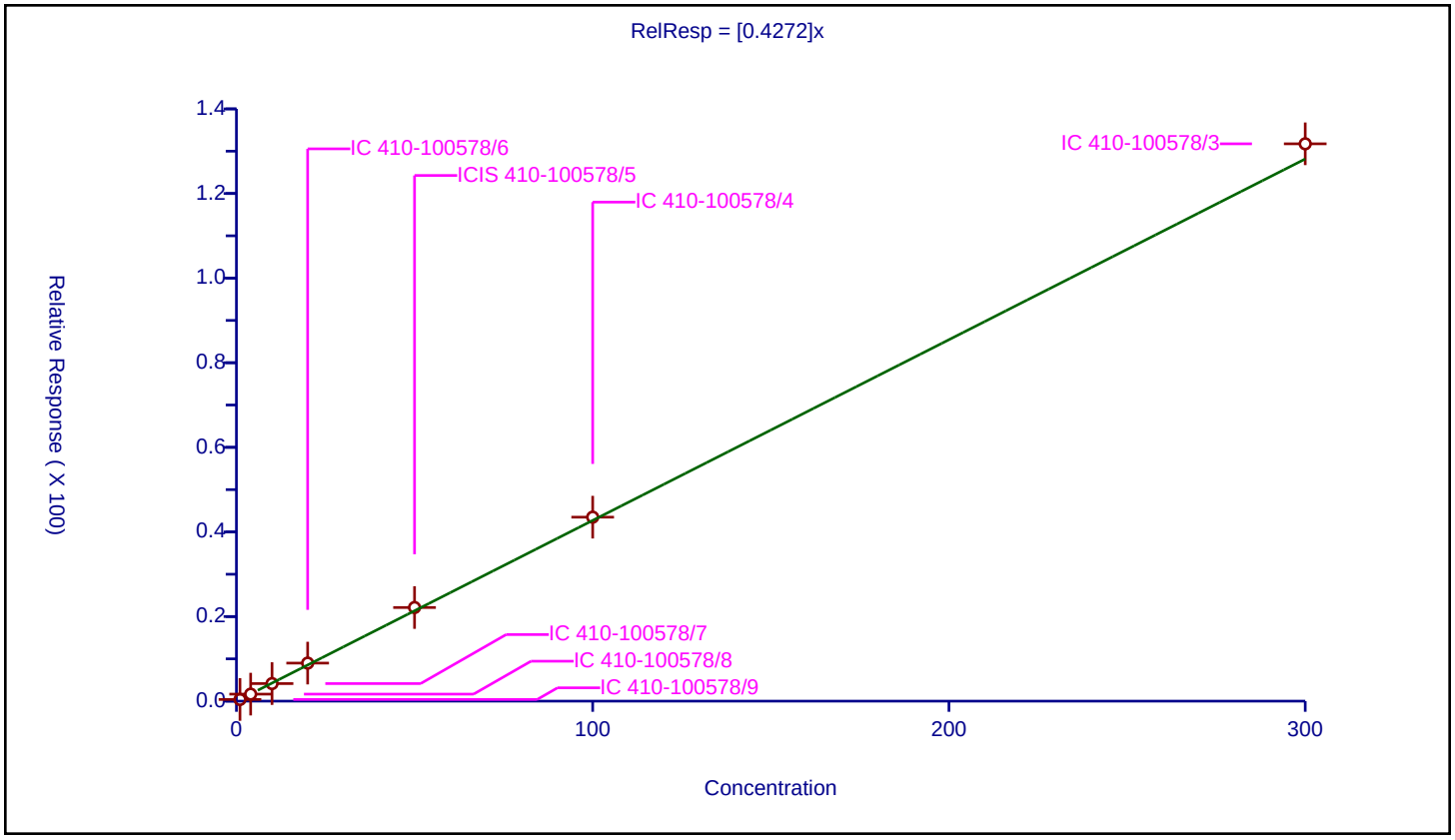
Curve Coefficients

Intercept:	0
Slope:	0.4272

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.394196	50.0	910080.0	0.394196	Y
2	IC 410-100578/8	4.0	1.659944	50.0	920242.0	0.414986	Y
3	IC 410-100578/7	10.0	4.149671	50.0	935026.0	0.414967	Y
4	IC 410-100578/6	20.0	8.990659	50.0	927813.0	0.449533	Y
5	ICIS 410-100578/5	50.0	22.130433	50.0	956599.0	0.442609	Y
6	IC 410-100578/4	100.0	43.491372	50.0	965188.0	0.434914	Y
7	IC 410-100578/3	300.0	131.744289	50.0	941593.0	0.439148	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

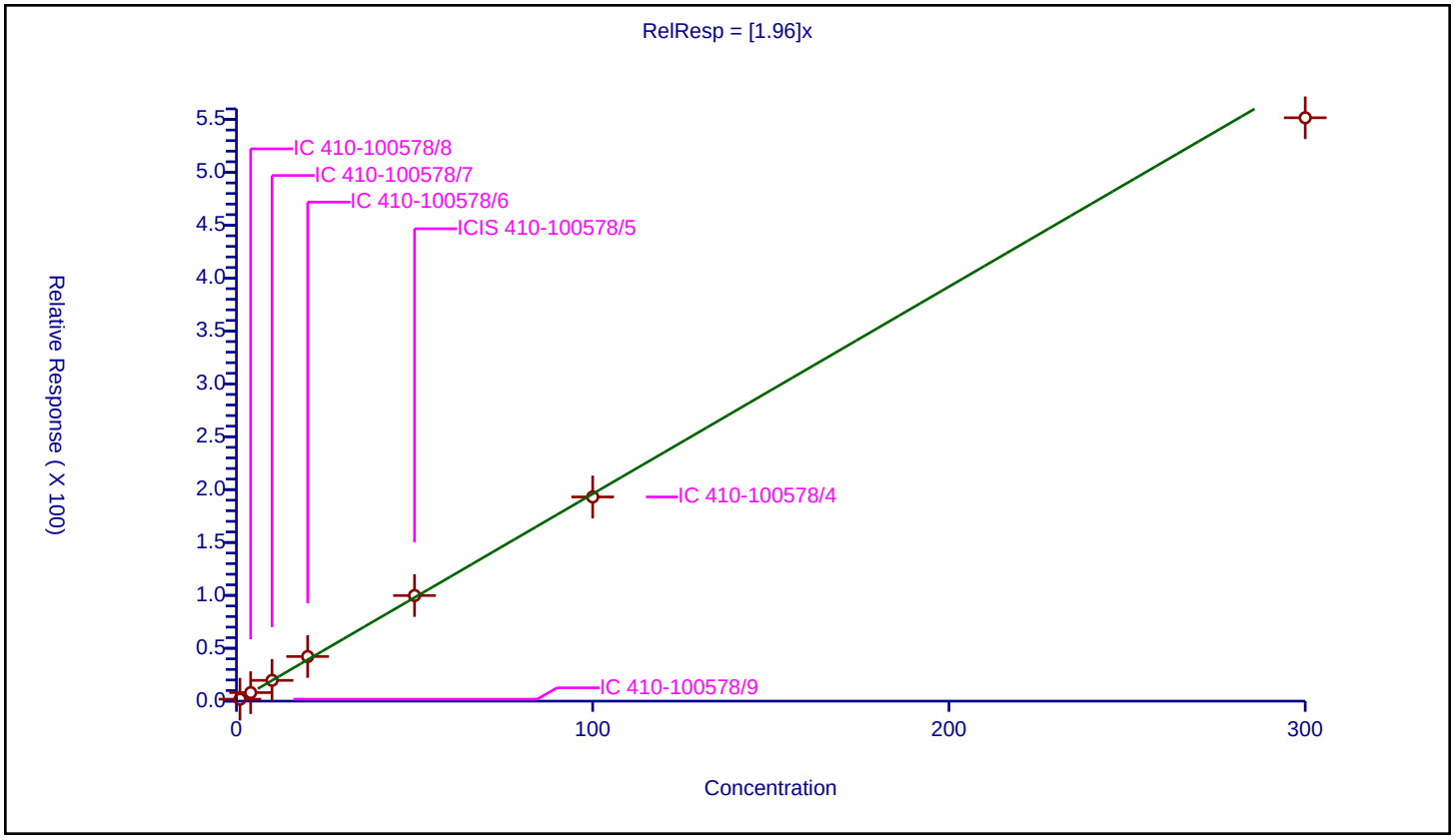
Curve Coefficients

Intercept:	0
Slope:	1.96

Error Coefficients

Standard Error:	4590000
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 410-100578/9	1.0	1.857859	50.0	910080.0	1.857859	Y
2	IC 410-100578/8	4.0	8.06853	50.0	920242.0	2.017132	Y
3	IC 410-100578/7	10.0	19.650737	50.0	935026.0	1.965074	Y
4	IC 410-100578/6	20.0	42.189051	50.0	927813.0	2.109453	Y
5	ICIS 410-100578/5	50.0	99.874608	50.0	956599.0	1.997492	Y
6	IC 410-100578/4	100.0	193.082125	50.0	965188.0	1.930821	Y
7	IC 410-100578/3	300.0	551.612799	50.0	941593.0	1.838709	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

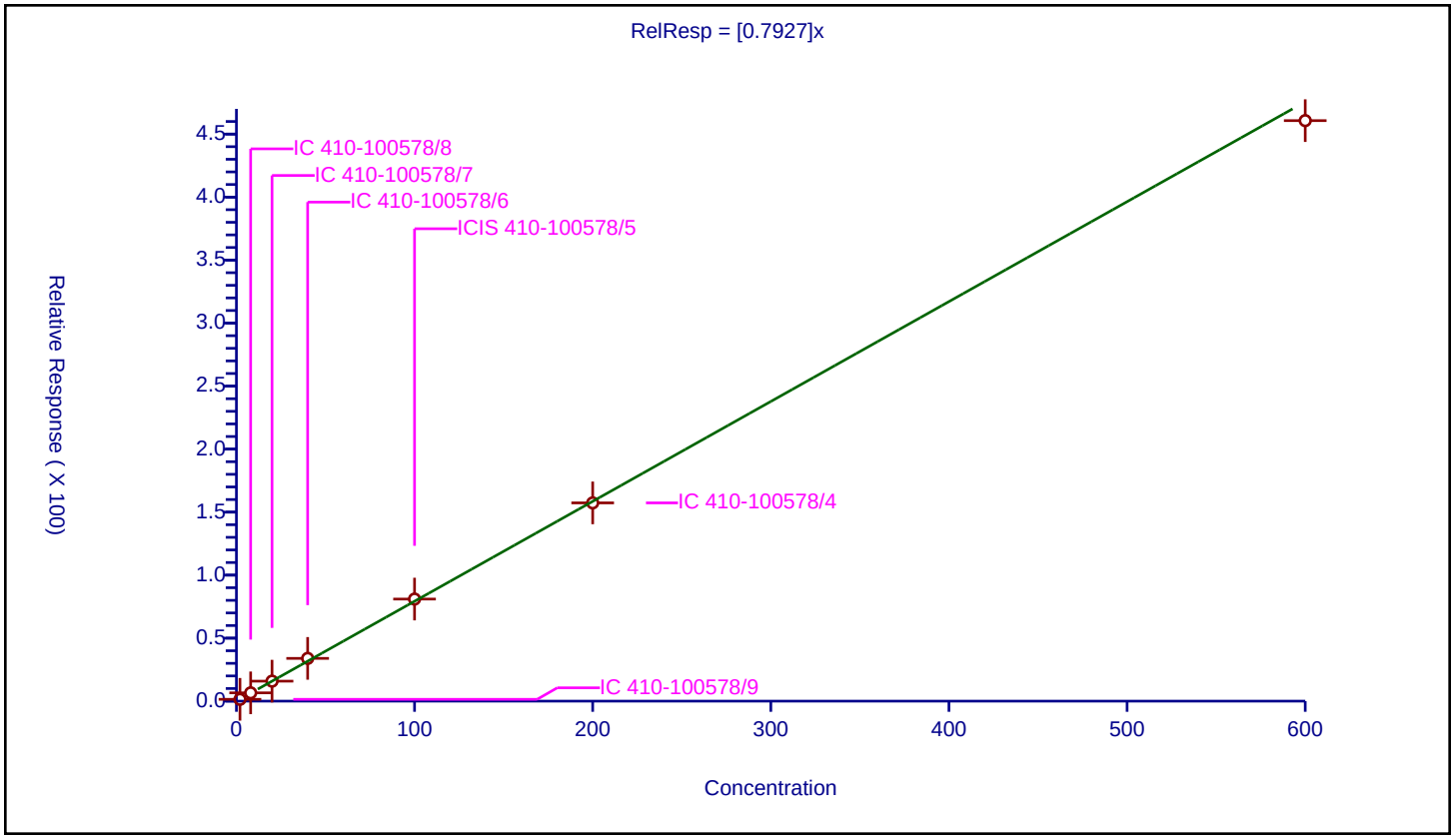
Curve Coefficients

Intercept:	0
Slope:	0.7927

Error Coefficients

Standard Error:	3820000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	2.0	1.440368	50.0	910080.0	0.720184	Y
2	IC 410-100578/8	8.0	6.586148	50.0	920242.0	0.823268	Y
3	IC 410-100578/7	20.0	15.858115	50.0	935026.0	0.792906	Y
4	IC 410-100578/6	40.0	33.924239	50.0	927813.0	0.848106	Y
5	ICIS 410-100578/5	100.0	81.005939	50.0	956599.0	0.810059	Y
6	IC 410-100578/4	200.0	157.326604	50.0	965188.0	0.786633	Y
7	IC 410-100578/3	600.0	460.67988	50.0	941593.0	0.7678	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

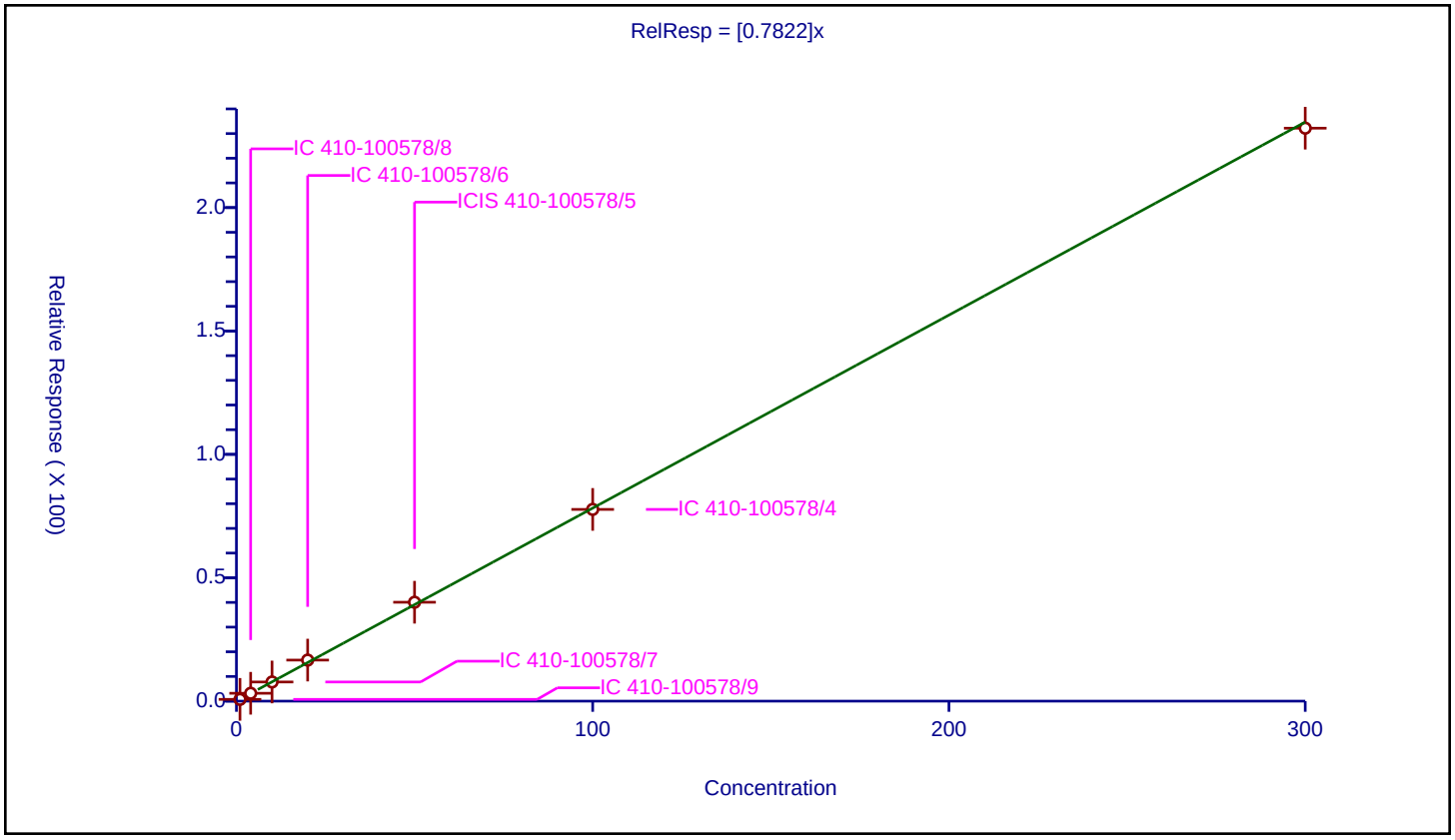
Curve Coefficients

Intercept:	0
Slope:	0.7822

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.716915	50.0	910080.0	0.716915	Y
2	IC 410-100578/8	4.0	3.189704	50.0	920242.0	0.797426	Y
3	IC 410-100578/7	10.0	7.768982	50.0	935026.0	0.776898	Y
4	IC 410-100578/6	20.0	16.638859	50.0	927813.0	0.831943	Y
5	ICIS 410-100578/5	50.0	40.076667	50.0	956599.0	0.801533	Y
6	IC 410-100578/4	100.0	77.694656	50.0	965188.0	0.776947	Y
7	IC 410-100578/3	300.0	232.188217	50.0	941593.0	0.773961	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

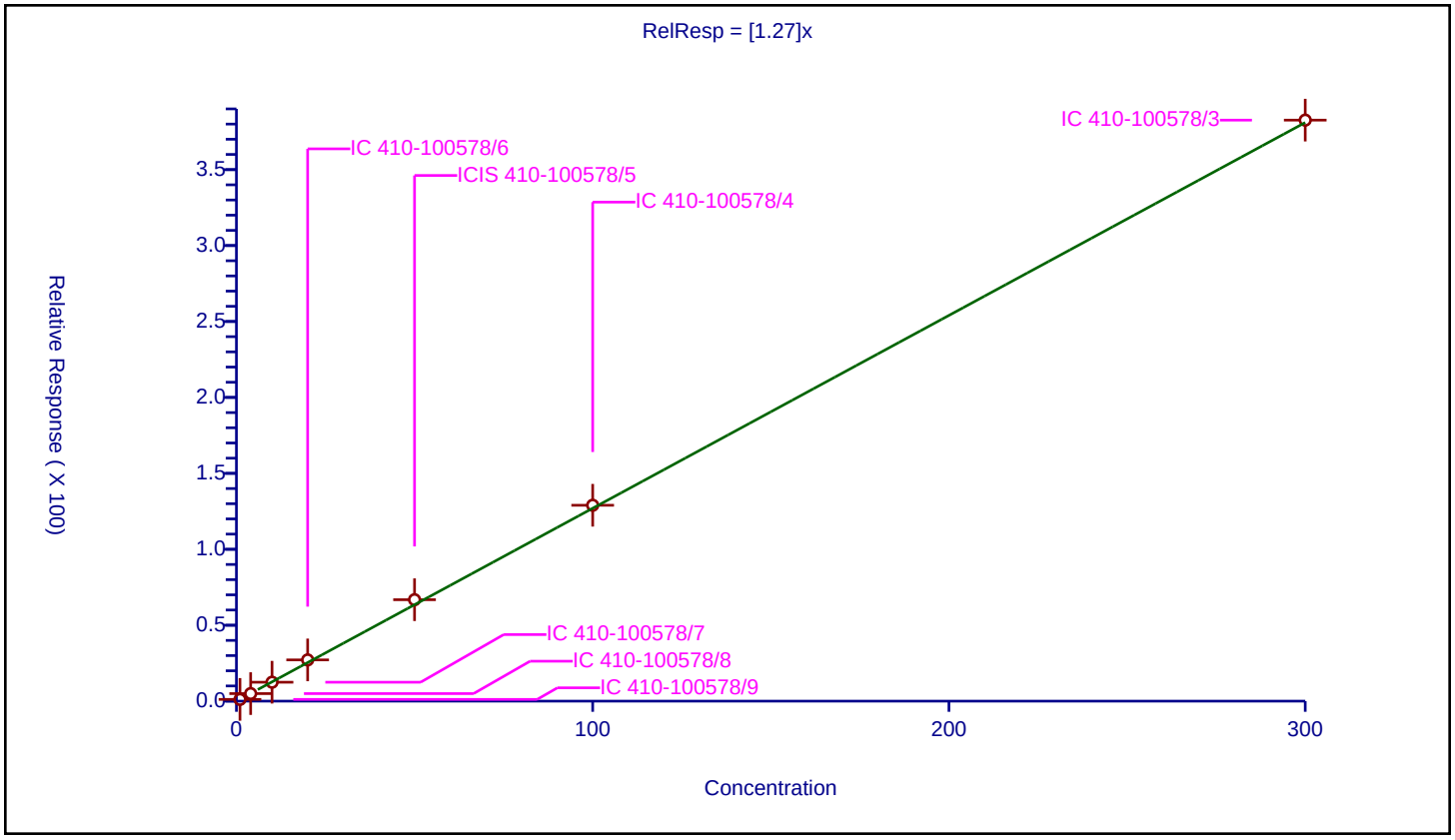
Curve Coefficients

Intercept:	0
Slope:	1.27

Error Coefficients

Standard Error:	3160000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.142427	50.0	910080.0	1.142427	Y
2	IC 410-100578/8	4.0	4.972877	50.0	920242.0	1.243219	Y
3	IC 410-100578/7	10.0	12.458798	50.0	935026.0	1.24588	Y
4	IC 410-100578/6	20.0	27.157628	50.0	927813.0	1.357881	Y
5	ICIS 410-100578/5	50.0	66.793348	50.0	956599.0	1.335867	Y
6	IC 410-100578/4	100.0	128.982229	50.0	965188.0	1.289822	Y
7	IC 410-100578/3	300.0	382.599064	50.0	941593.0	1.27533	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

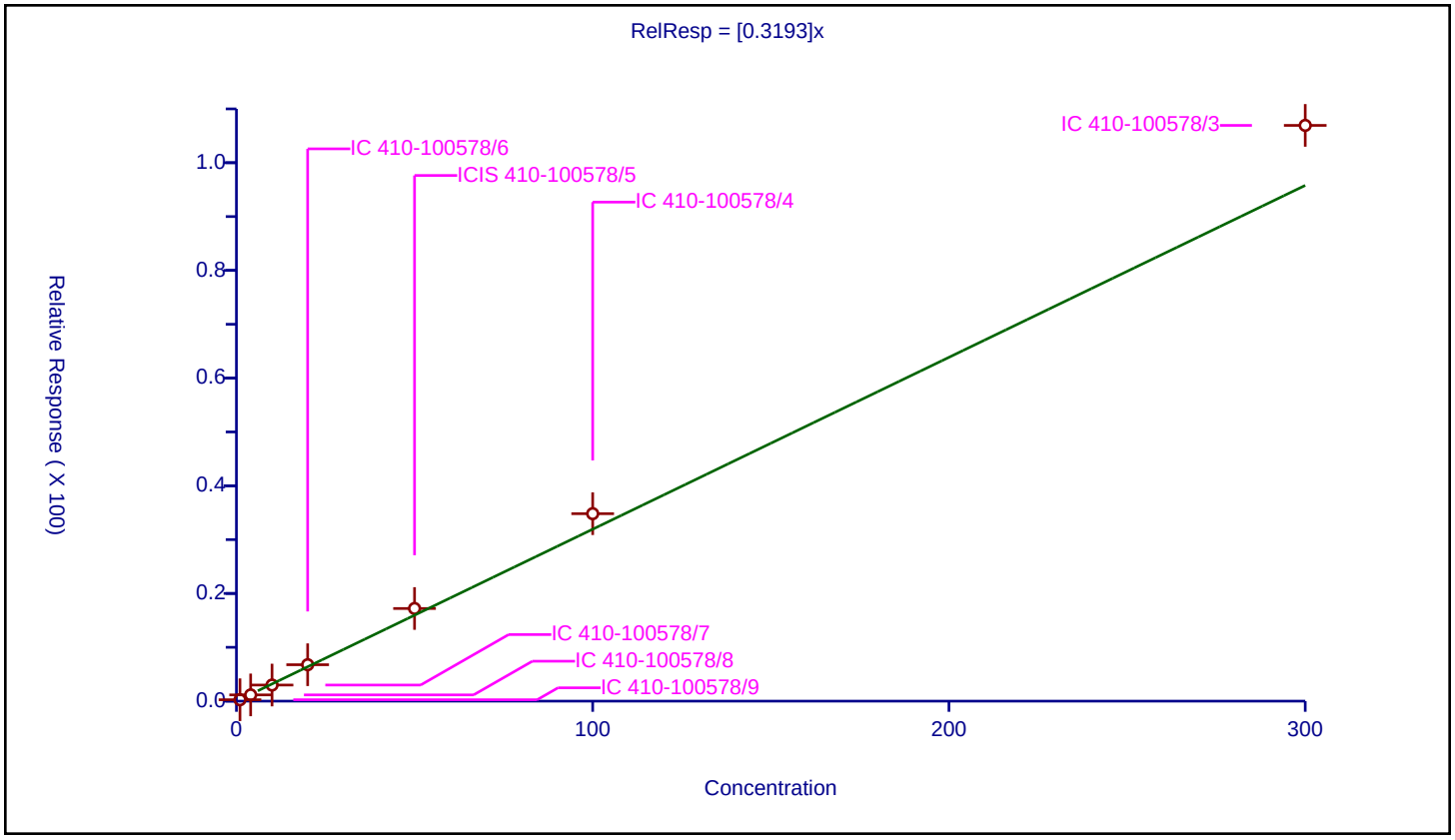
Curve Coefficients

Intercept:	0
Slope:	0.3193

Error Coefficients

Standard Error:	879000
Relative Standard Error:	11.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.259483	50.0	910080.0	0.259483	Y
2	IC 410-100578/8	4.0	1.157902	50.0	920242.0	0.289475	Y
3	IC 410-100578/7	10.0	2.991735	50.0	935026.0	0.299173	Y
4	IC 410-100578/6	20.0	6.763594	50.0	927813.0	0.33818	Y
5	ICIS 410-100578/5	50.0	17.205694	50.0	956599.0	0.344114	Y
6	IC 410-100578/4	100.0	34.81643	50.0	965188.0	0.348164	Y
7	IC 410-100578/3	300.0	106.930542	50.0	941593.0	0.356435	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

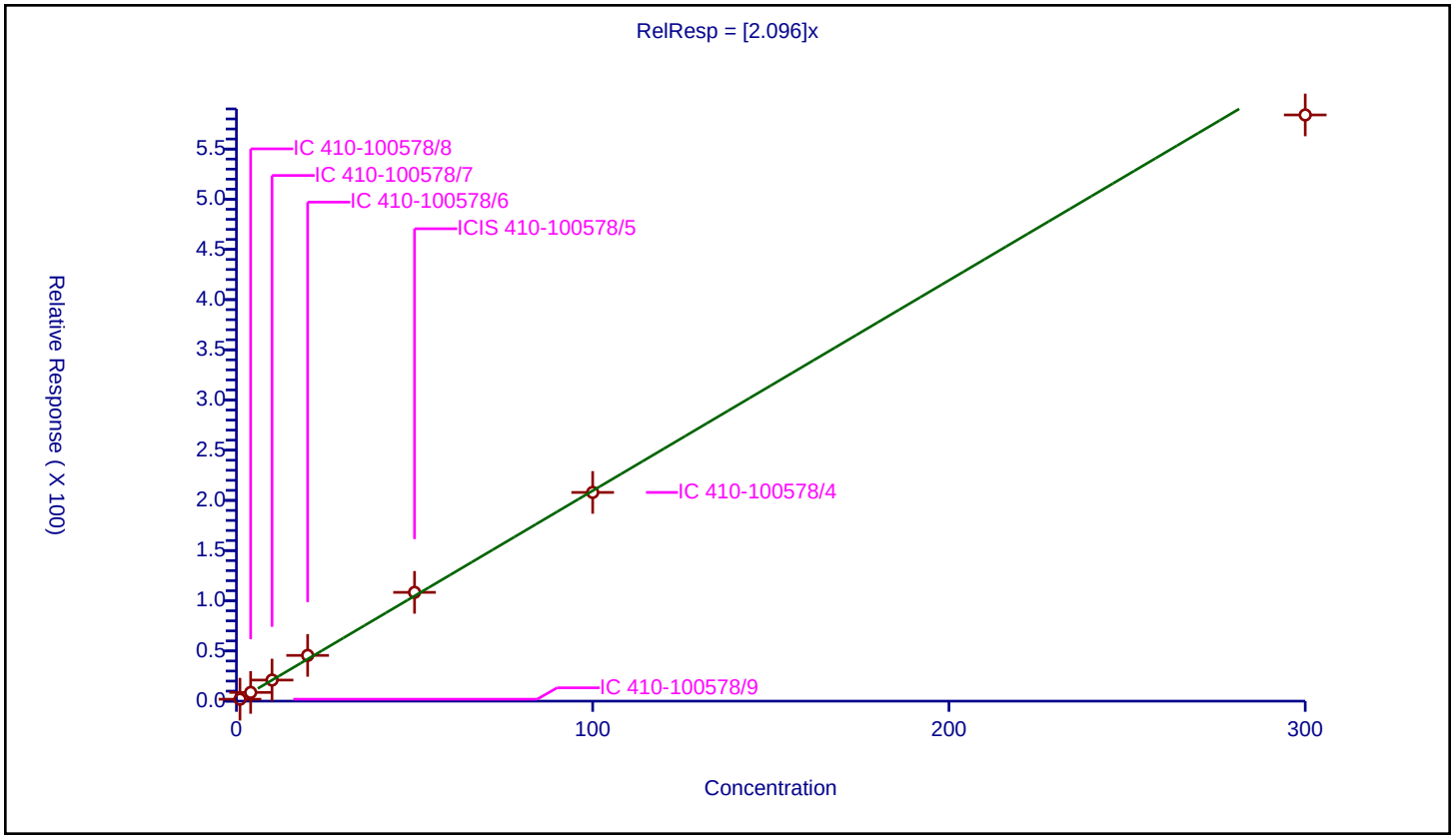
Curve Coefficients

Intercept:	0
Slope:	2.096

Error Coefficients

Standard Error:	4870000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.929775	50.0	910080.0	1.929775	Y
2	IC 410-100578/8	4.0	8.686193	50.0	920242.0	2.171548	Y
3	IC 410-100578/7	10.0	20.989737	50.0	935026.0	2.098974	Y
4	IC 410-100578/6	20.0	45.575725	50.0	927813.0	2.278786	Y
5	ICIS 410-100578/5	50.0	108.381359	50.0	956599.0	2.167627	Y
6	IC 410-100578/4	100.0	207.929129	50.0	965188.0	2.079291	Y
7	IC 410-100578/3	300.0	583.971366	50.0	941593.0	1.946571	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

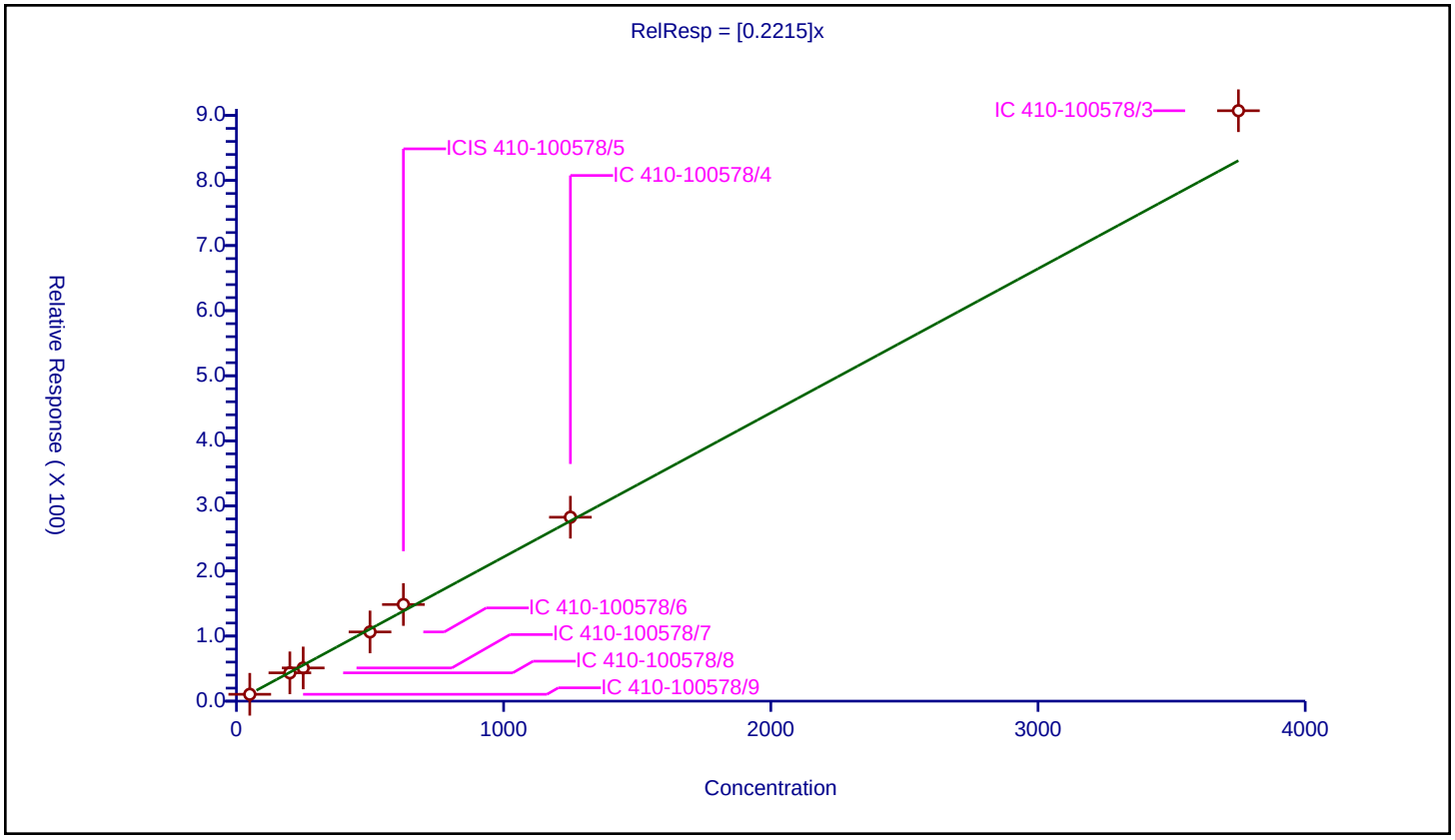
Curve Coefficients

Intercept:	0
Slope:	0.2215

Error Coefficients

Standard Error:	376000
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 410-100578/9	50.000503	10.529648	250.0	240084.0	0.210591	Y
2	IC 410-100578/8	200.002013	43.490449	250.0	241691.0	0.21745	Y
3	IC 410-100578/7	250.002516	50.9944	250.0	278761.0	0.203976	Y
4	IC 410-100578/6	500.005032	106.352042	250.0	279910.0	0.212702	Y
5	ICIS 410-100578/5	625.00629	148.510495	250.0	239744.0	0.237614	Y
6	IC 410-100578/4	1250.01258	282.606146	250.0	268615.0	0.226083	Y
7	IC 410-100578/3	3750.03774	907.18525	250.0	233360.0	0.241914	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

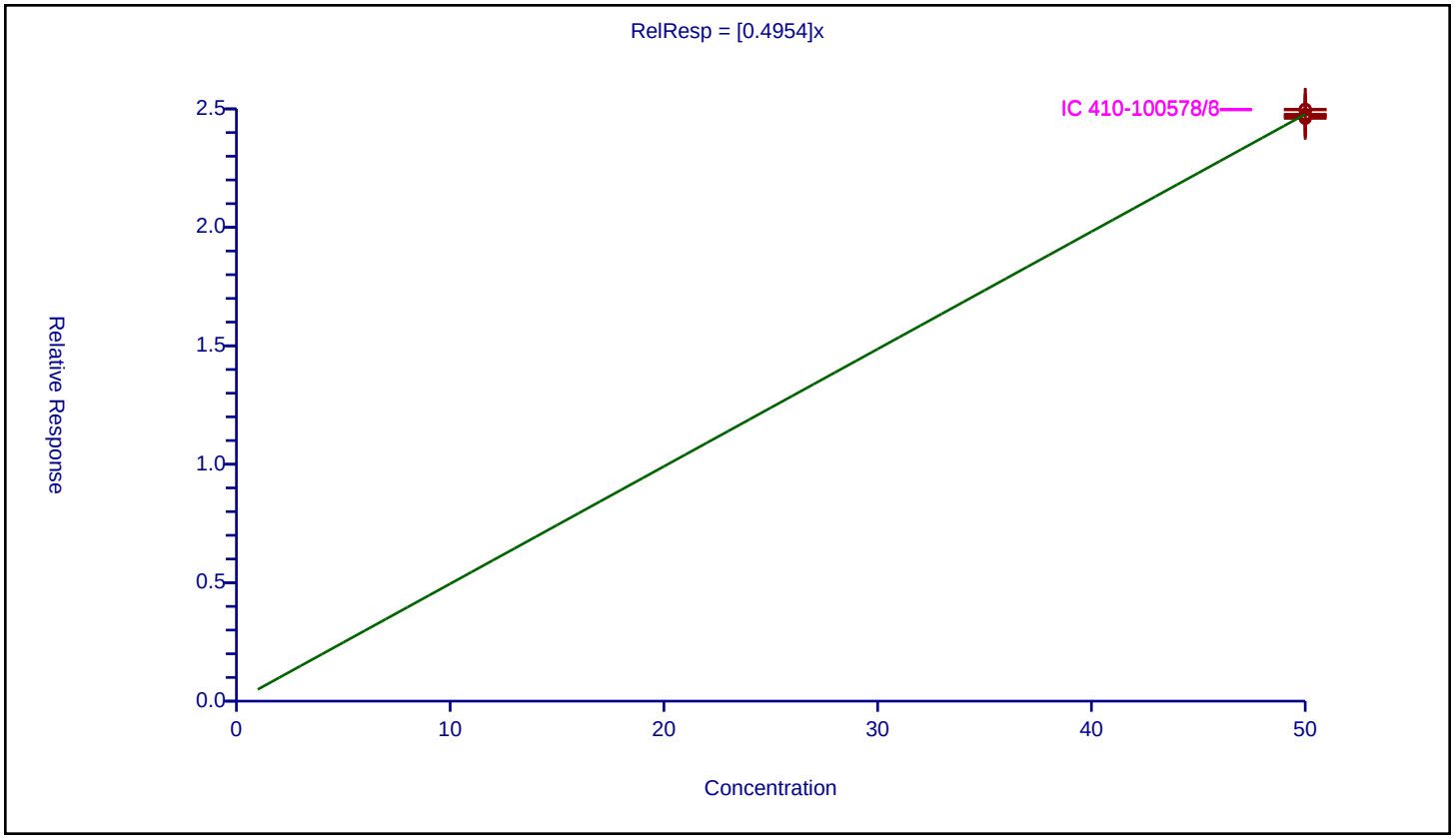
Curve Coefficients

Intercept:	0
Slope:	0.4954

Error Coefficients

Standard Error:	501000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/3	50.0	24.984202	50.0	941593.0	0.499684	Y
2	IC 410-100578/4	50.0	24.748546	50.0	965188.0	0.494971	Y
3	ICIS 410-100578/5	50.0	24.599179	50.0	956599.0	0.491984	Y
4	IC 410-100578/6	50.0	24.955999	50.0	927813.0	0.49912	Y
5	IC 410-100578/7	50.0	24.651079	50.0	935026.0	0.493022	Y
6	IC 410-100578/8	50.0	24.697688	50.0	920242.0	0.493954	Y
7	IC 410-100578/9	50.0	24.77046	50.0	910080.0	0.495409	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

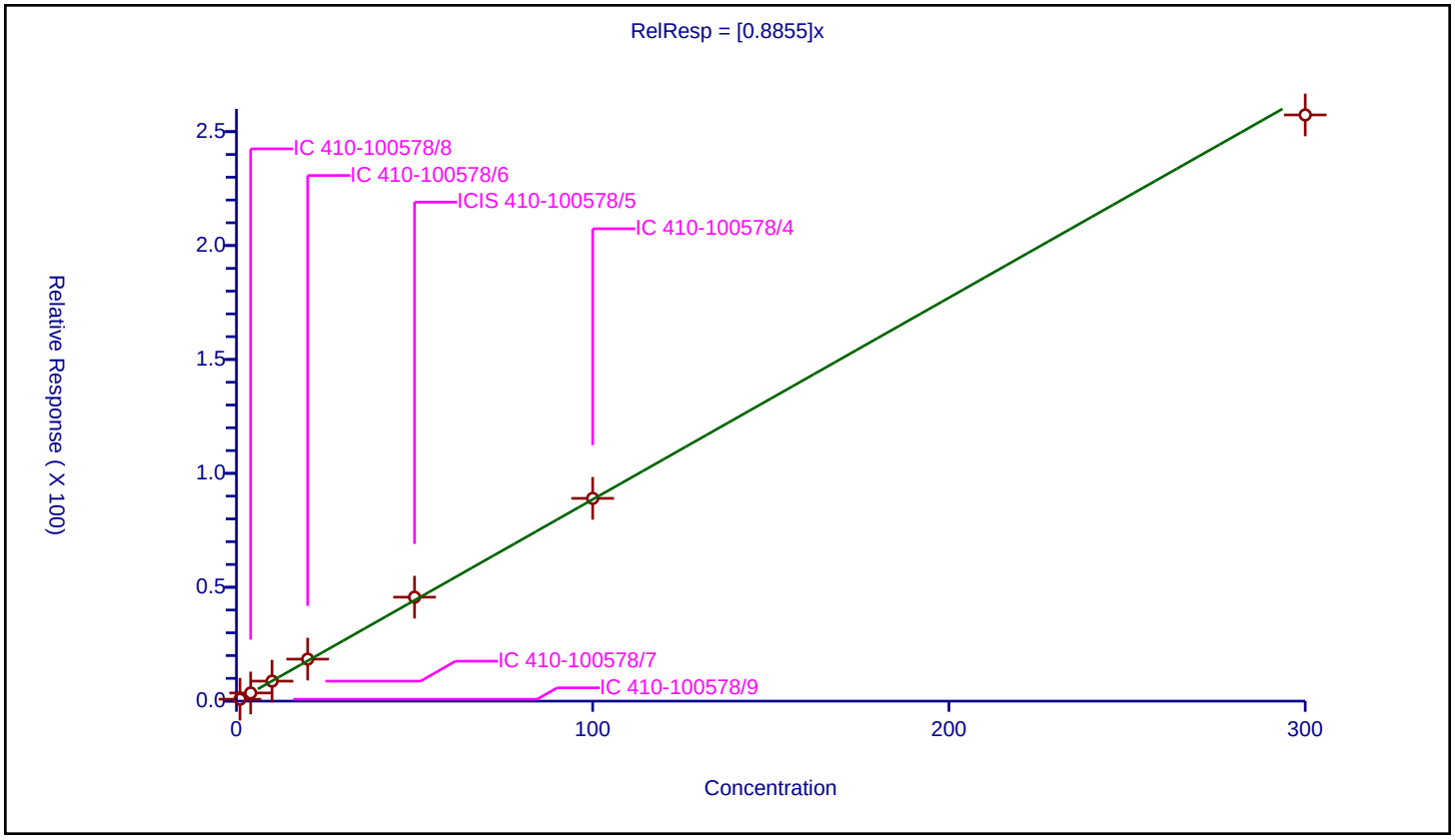
Curve Coefficients

Intercept:	0
Slope:	0.8855

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.840424	50.0	540025.0	0.840424	Y
2	IC 410-100578/8	4.0	3.584294	50.0	544110.0	0.896073	Y
3	IC 410-100578/7	10.0	8.789312	50.0	556898.0	0.878931	Y
4	IC 410-100578/6	20.0	18.439387	50.0	557345.0	0.921969	Y
5	ICIS 410-100578/5	50.0	45.646519	50.0	566983.0	0.91293	Y
6	IC 410-100578/4	100.0	89.015597	50.0	574287.0	0.890156	Y
7	IC 410-100578/3	300.0	257.351749	50.0	573775.0	0.857839	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

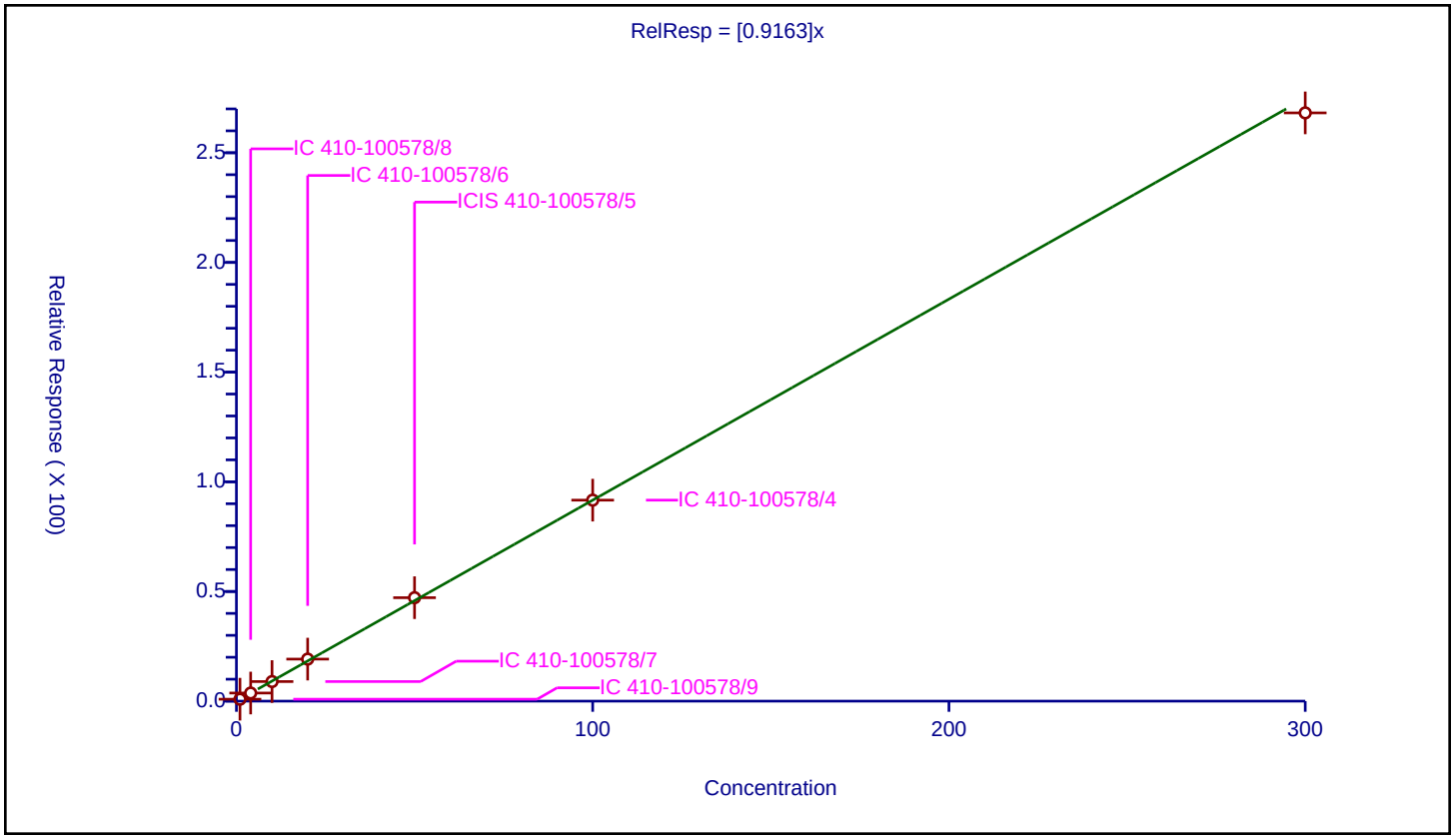
Curve Coefficients

Intercept:	0
Slope:	0.9163

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.885052	50.0	540025.0	0.885052	Y
2	IC 410-100578/8	4.0	3.69916	50.0	544110.0	0.92479	Y
3	IC 410-100578/7	10.0	8.925423	50.0	556898.0	0.892542	Y
4	IC 410-100578/6	20.0	19.169635	50.0	557345.0	0.958482	Y
5	ICIS 410-100578/5	50.0	47.162525	50.0	566983.0	0.943251	Y
6	IC 410-100578/4	100.0	91.62518	50.0	574287.0	0.916252	Y
7	IC 410-100578/3	300.0	268.176811	50.0	573775.0	0.893923	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

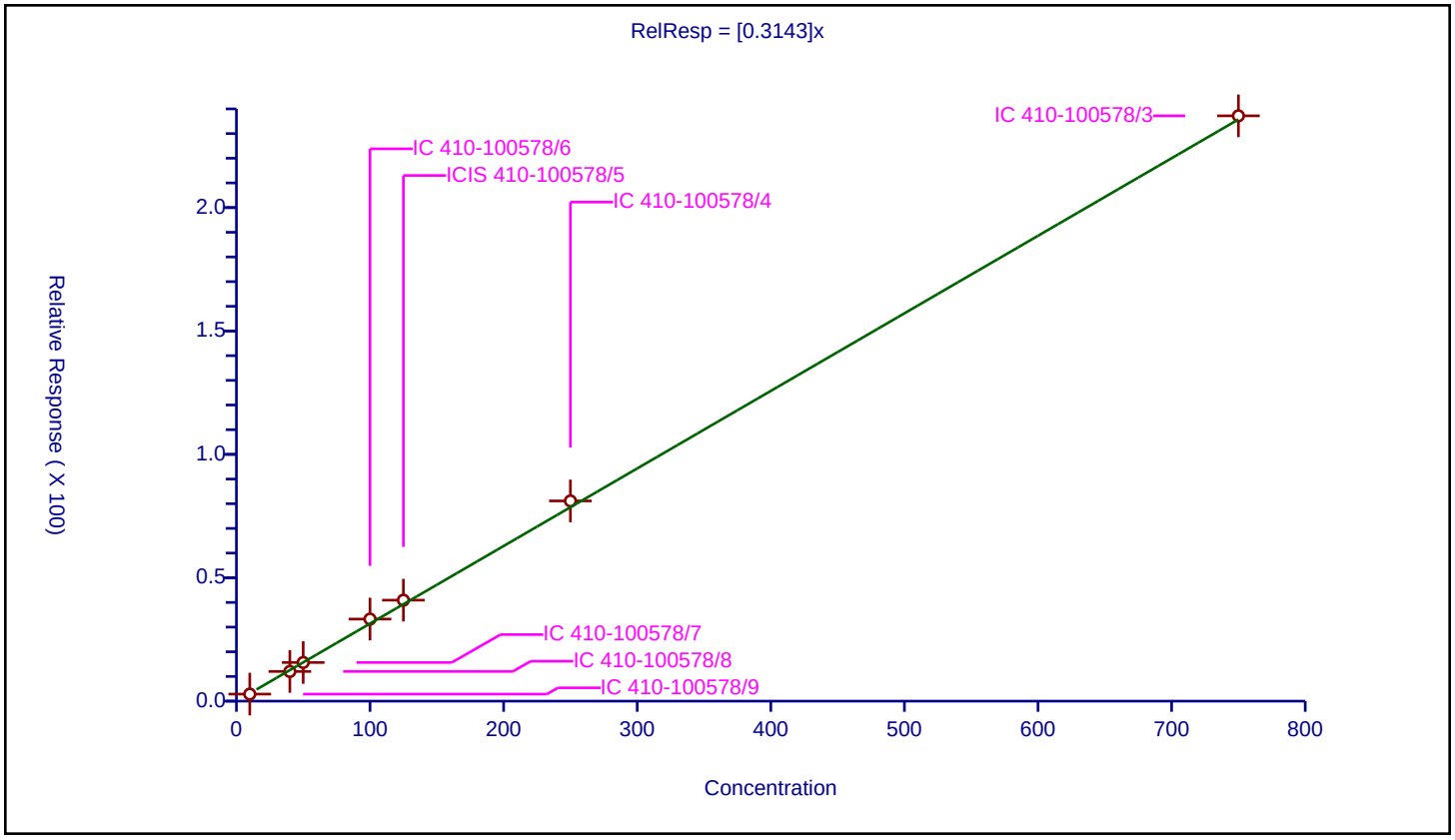
Curve Coefficients

Intercept:	0
Slope:	0.3143

Error Coefficients

Standard Error:	1200000
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 410-100578/9	10.0	2.853572	50.0	540025.0	0.285357	Y
2	IC 410-100578/8	40.0	12.027715	50.0	544110.0	0.300693	Y
3	IC 410-100578/7	50.0	15.665436	50.0	556898.0	0.313309	Y
4	IC 410-100578/6	100.0	33.260099	50.0	557345.0	0.332601	Y
5	ICIS 410-100578/5	125.0	40.920275	50.0	566983.0	0.327362	Y
6	IC 410-100578/4	250.0	81.13156	50.0	574287.0	0.324526	Y
7	IC 410-100578/3	750.0	237.179295	50.0	573775.0	0.316239	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

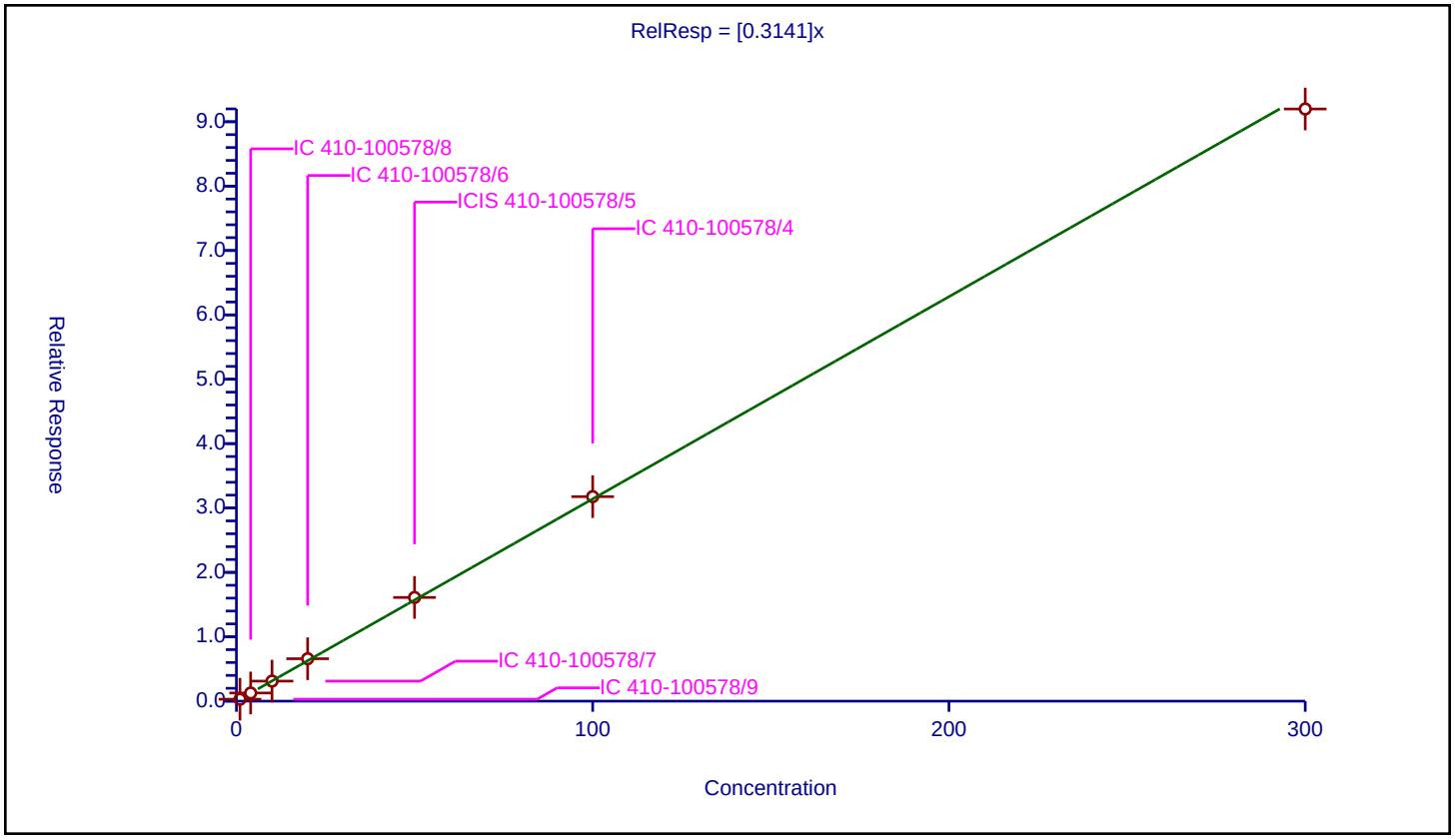
Curve Coefficients

Intercept:	0
Slope:	0.3141

Error Coefficients

Standard Error:	463000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.294986	50.0	540025.0	0.294986	Y
2	IC 410-100578/8	4.0	1.267115	50.0	544110.0	0.316779	Y
3	IC 410-100578/7	10.0	3.112688	50.0	556898.0	0.311269	Y
4	IC 410-100578/6	20.0	6.590532	50.0	557345.0	0.329527	Y
5	ICIS 410-100578/5	50.0	16.106215	50.0	566983.0	0.322124	Y
6	IC 410-100578/4	100.0	31.76861	50.0	574287.0	0.317686	Y
7	IC 410-100578/3	300.0	91.983007	50.0	573775.0	0.30661	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

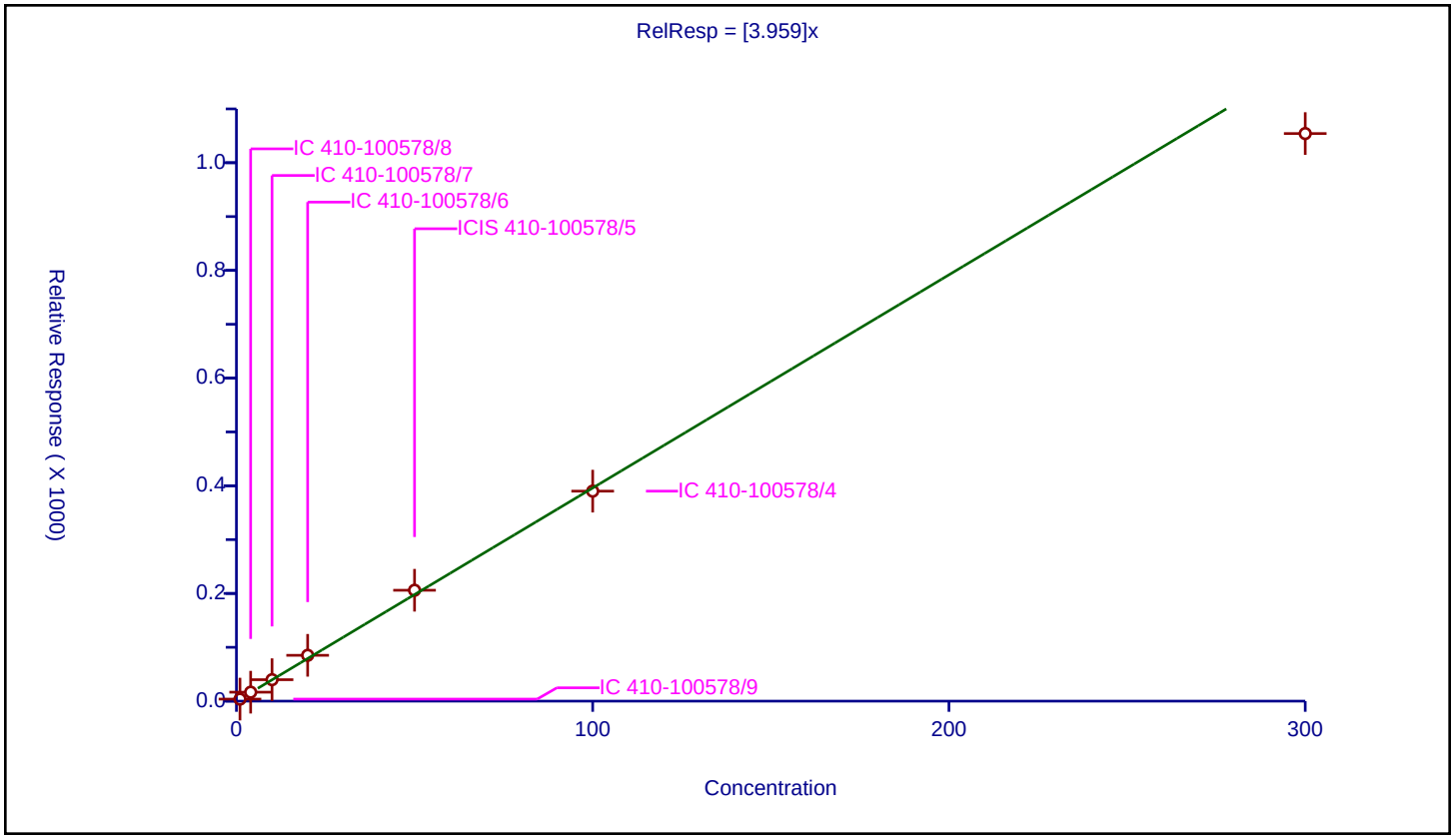
Curve Coefficients

Intercept:	0
Slope:	3.959

Error Coefficients

Standard Error:	5370000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	3.769455	50.0	540025.0	3.769455	Y
2	IC 410-100578/8	4.0	16.667218	50.0	544110.0	4.166805	Y
3	IC 410-100578/7	10.0	39.864841	50.0	556898.0	3.986484	Y
4	IC 410-100578/6	20.0	85.130933	50.0	557345.0	4.256547	Y
5	ICIS 410-100578/5	50.0	205.971431	50.0	566983.0	4.119429	Y
6	IC 410-100578/4	100.0	390.023281	50.0	574287.0	3.900233	Y
7	IC 410-100578/3	300.0	1054.192497	50.0	573775.0	3.513975	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

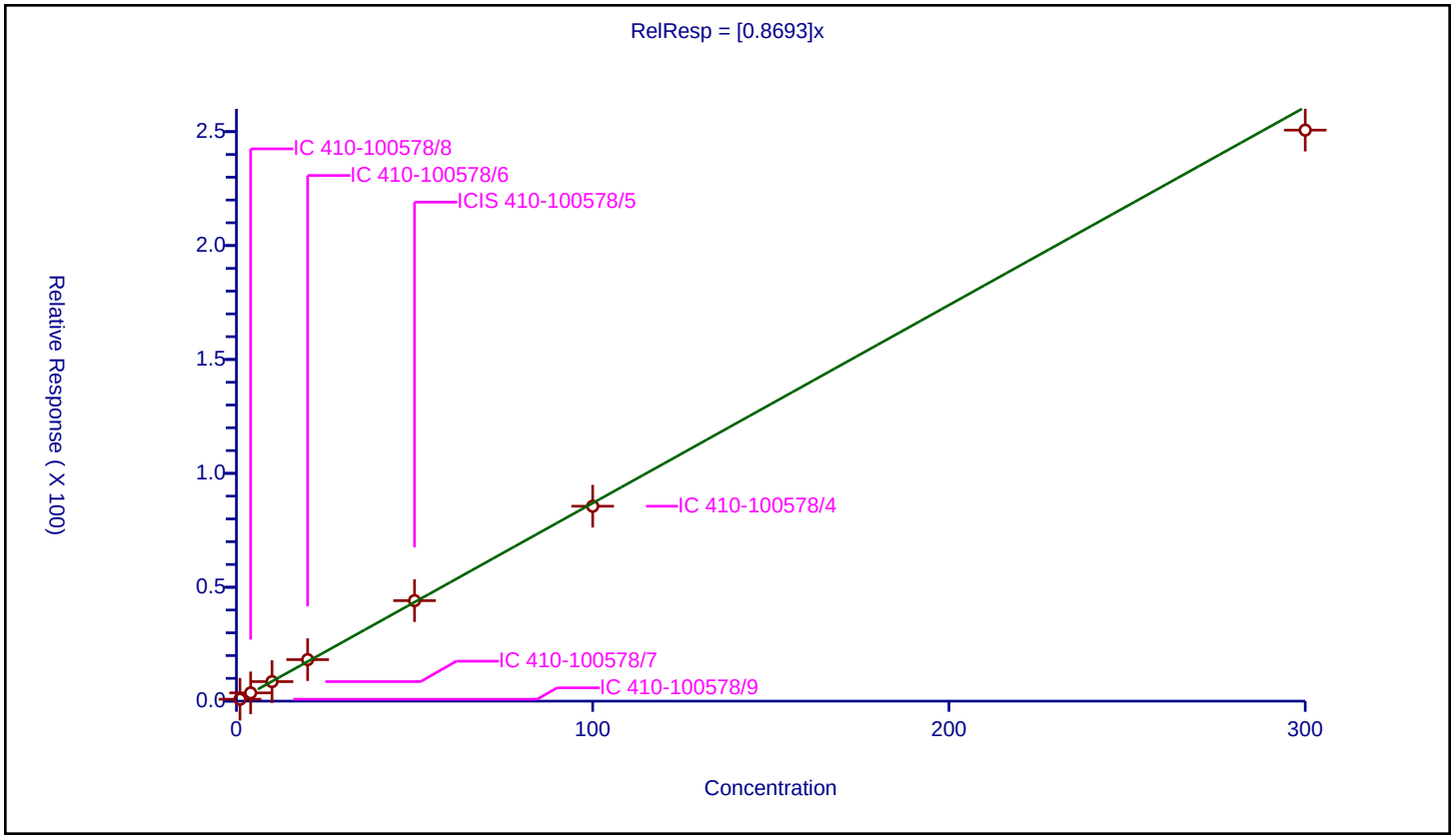
Curve Coefficients

Intercept:	0
Slope:	0.8693

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.834591	50.0	540025.0	0.834591	Y
2	IC 410-100578/8	4.0	3.6341	50.0	544110.0	0.908525	Y
3	IC 410-100578/7	10.0	8.573922	50.0	556898.0	0.857392	Y
4	IC 410-100578/6	20.0	18.22112	50.0	557345.0	0.911056	Y
5	ICIS 410-100578/5	50.0	44.118519	50.0	566983.0	0.88237	Y
6	IC 410-100578/4	100.0	85.569149	50.0	574287.0	0.855691	Y
7	IC 410-100578/3	300.0	250.683282	50.0	573775.0	0.835611	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

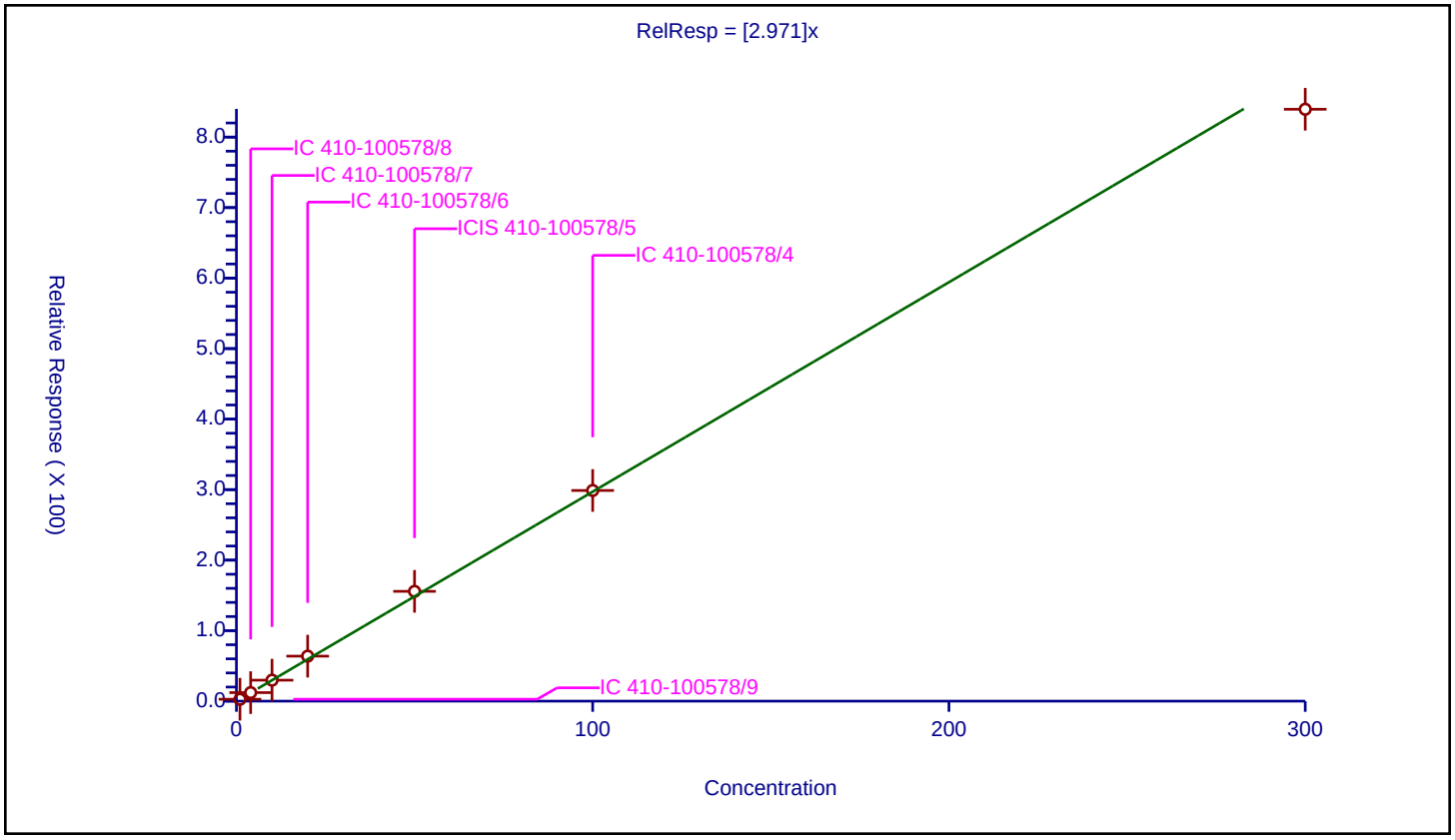
Curve Coefficients

Intercept:	0
Slope:	2.971

Error Coefficients

Standard Error:	4250000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	2.699968	50.0	540025.0	2.699968	Y
2	IC 410-100578/8	4.0	12.110695	50.0	544110.0	3.027674	Y
3	IC 410-100578/7	10.0	29.749523	50.0	556898.0	2.974952	Y
4	IC 410-100578/6	20.0	63.832635	50.0	557345.0	3.191632	Y
5	ICIS 410-100578/5	50.0	155.744793	50.0	566983.0	3.114896	Y
6	IC 410-100578/4	100.0	298.775786	50.0	574287.0	2.987758	Y
7	IC 410-100578/3	300.0	839.473836	50.0	573775.0	2.798246	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

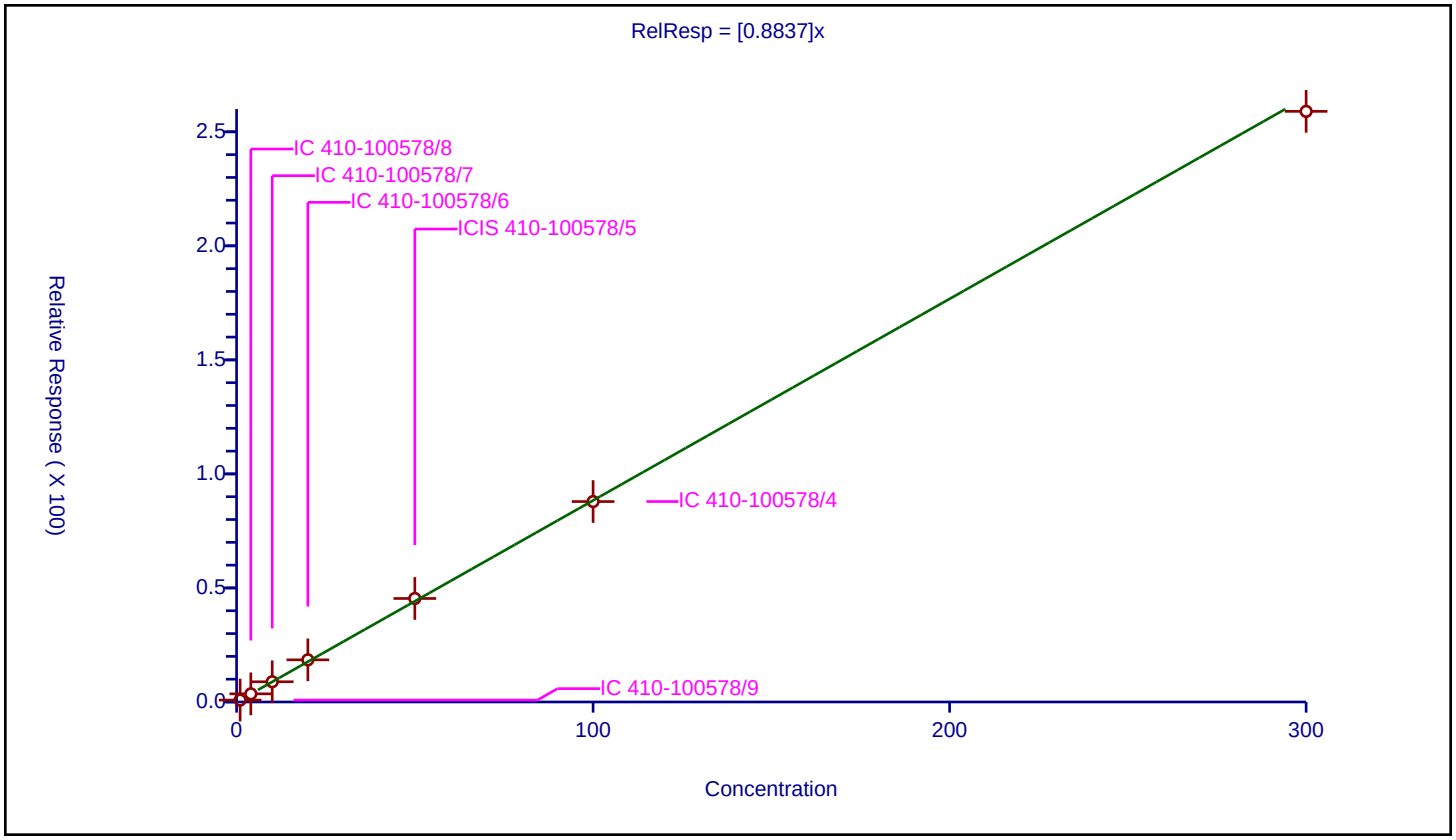
Curve Coefficients

Intercept:	0
Slope:	0.8837

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.832832	50.0	540025.0	0.832832	Y
2	IC 410-100578/8	4.0	3.572164	50.0	544110.0	0.893041	Y
3	IC 410-100578/7	10.0	8.86428	50.0	556898.0	0.886428	Y
4	IC 410-100578/6	20.0	18.483525	50.0	557345.0	0.924176	Y
5	ICIS 410-100578/5	50.0	45.381872	50.0	566983.0	0.907637	Y
6	IC 410-100578/4	100.0	87.884281	50.0	574287.0	0.878843	Y
7	IC 410-100578/3	300.0	258.971548	50.0	573775.0	0.863238	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

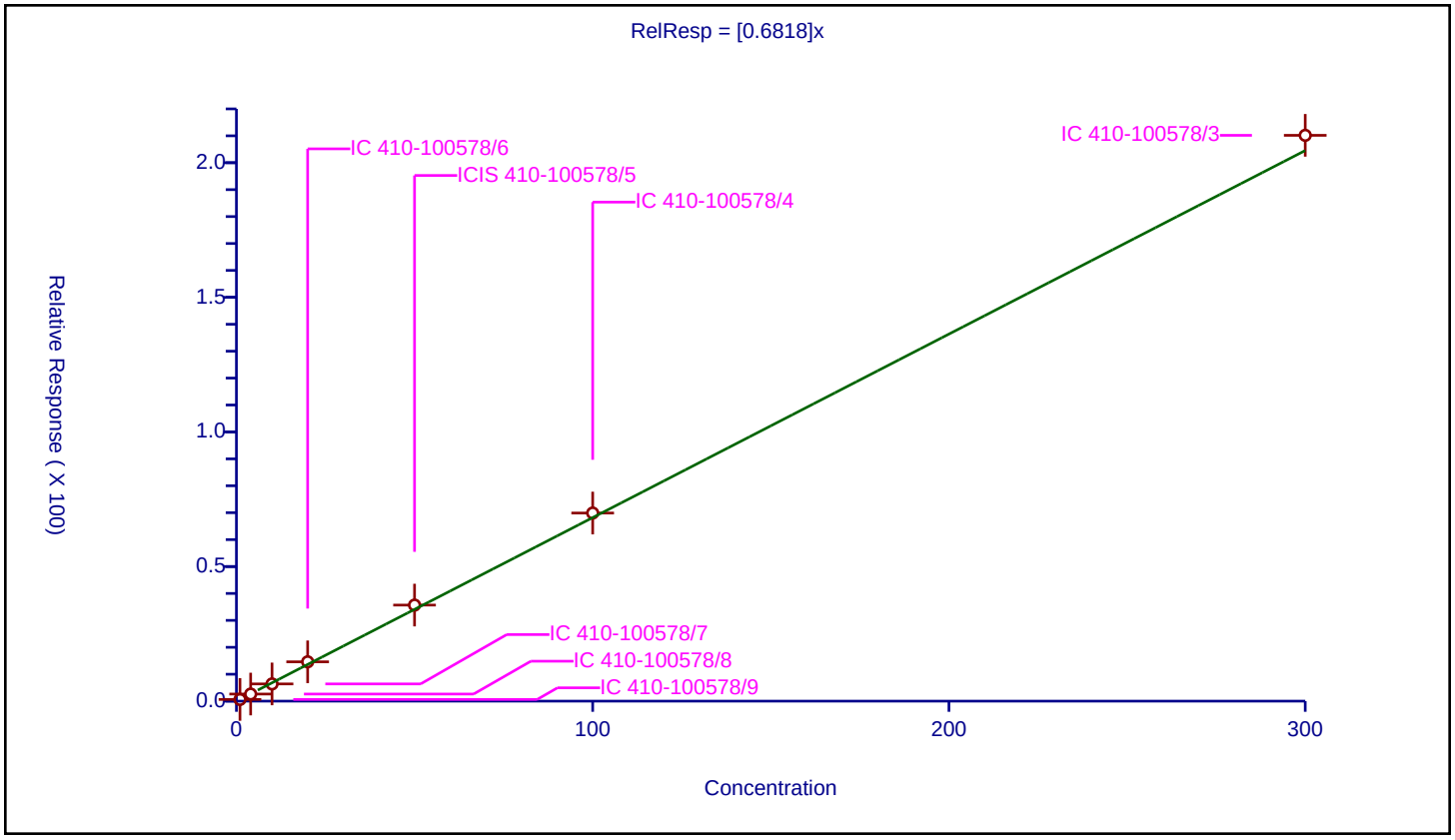
Curve Coefficients

Intercept:	0
Slope:	0.6818

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.630434	50.0	540025.0	0.630434	Y
2	IC 410-100578/8	4.0	2.636048	50.0	544110.0	0.659012	Y
3	IC 410-100578/7	10.0	6.395426	50.0	556898.0	0.639543	Y
4	IC 410-100578/6	20.0	14.60738	50.0	557345.0	0.730369	Y
5	ICIS 410-100578/5	50.0	35.681934	50.0	566983.0	0.713639	Y
6	IC 410-100578/4	100.0	69.874383	50.0	574287.0	0.698744	Y
7	IC 410-100578/3	300.0	210.178031	50.0	573775.0	0.700593	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

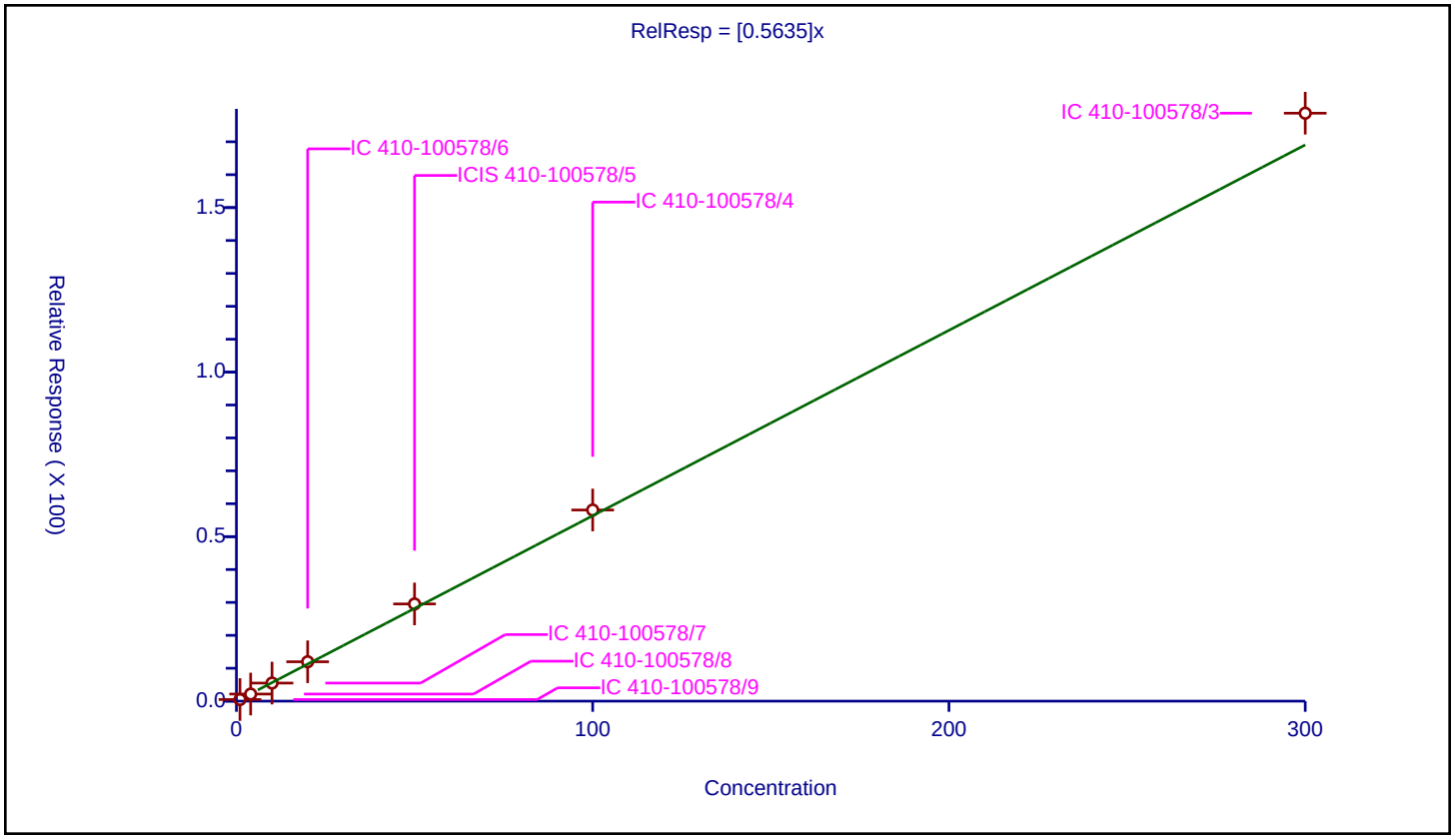
Curve Coefficients

Intercept:	0
Slope:	0.5635

Error Coefficients

Standard Error:	893000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.49007	50.0	540025.0	0.49007	Y
2	IC 410-100578/8	4.0	2.157009	50.0	544110.0	0.539252	Y
3	IC 410-100578/7	10.0	5.4958	50.0	556898.0	0.54958	Y
4	IC 410-100578/6	20.0	11.966287	50.0	557345.0	0.598314	Y
5	ICIS 410-100578/5	50.0	29.543302	50.0	566983.0	0.590866	Y
6	IC 410-100578/4	100.0	58.0889	50.0	574287.0	0.580889	Y
7	IC 410-100578/3	300.0	178.689295	50.0	573775.0	0.595631	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

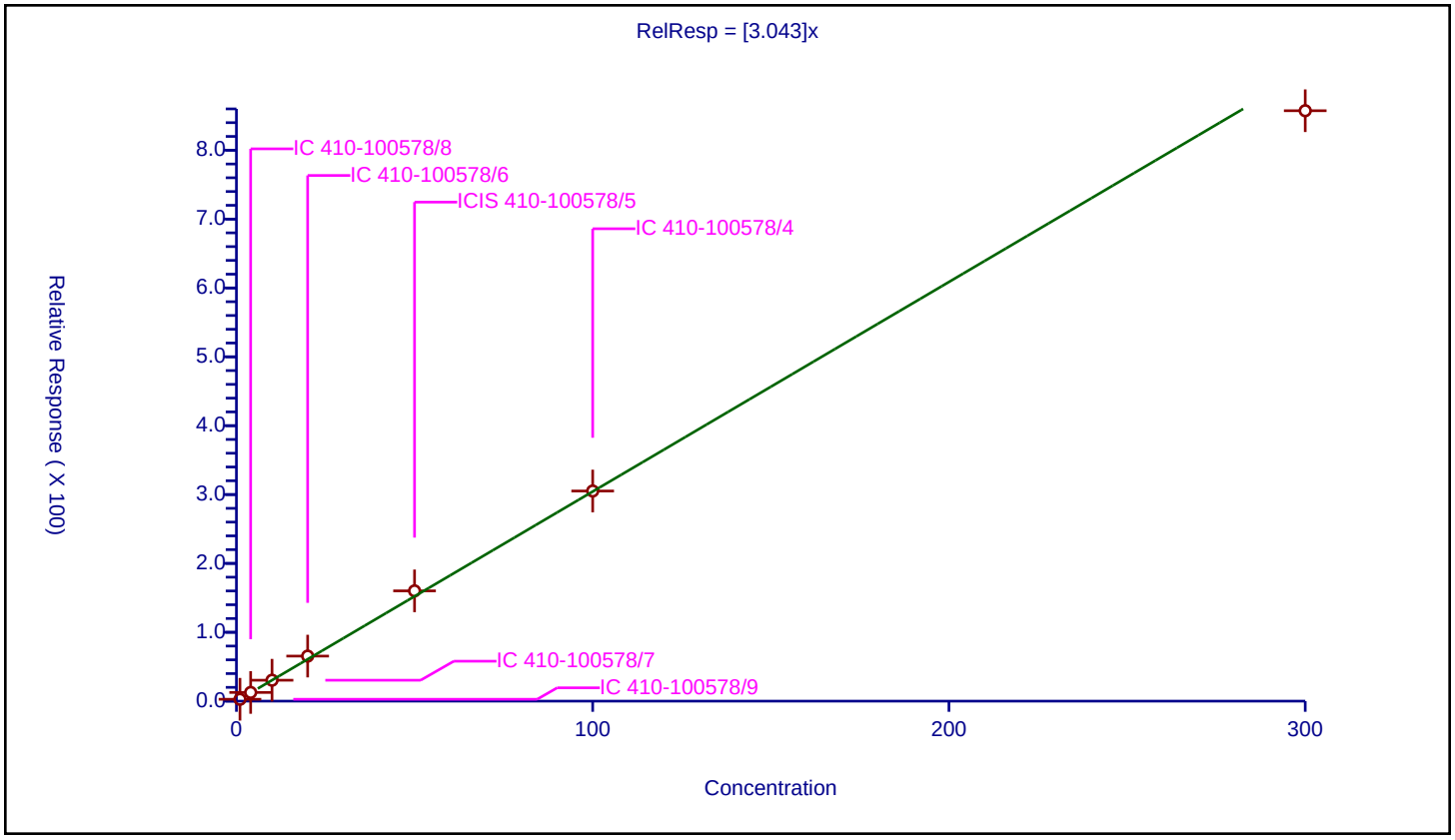
Curve Coefficients

Intercept:	0
Slope:	3.043

Error Coefficients

Standard Error:	4340000
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 410-100578/9	1.0	2.723392	50.0	540025.0	2.723392	Y
2	IC 410-100578/8	4.0	12.637334	50.0	544110.0	3.159334	Y
3	IC 410-100578/7	10.0	30.394884	50.0	556898.0	3.039488	Y
4	IC 410-100578/6	20.0	65.402489	50.0	557345.0	3.270124	Y
5	ICIS 410-100578/5	50.0	160.115118	50.0	566983.0	3.202302	Y
6	IC 410-100578/4	100.0	305.13811	50.0	574287.0	3.051381	Y
7	IC 410-100578/3	300.0	857.332927	50.0	573775.0	2.857776	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

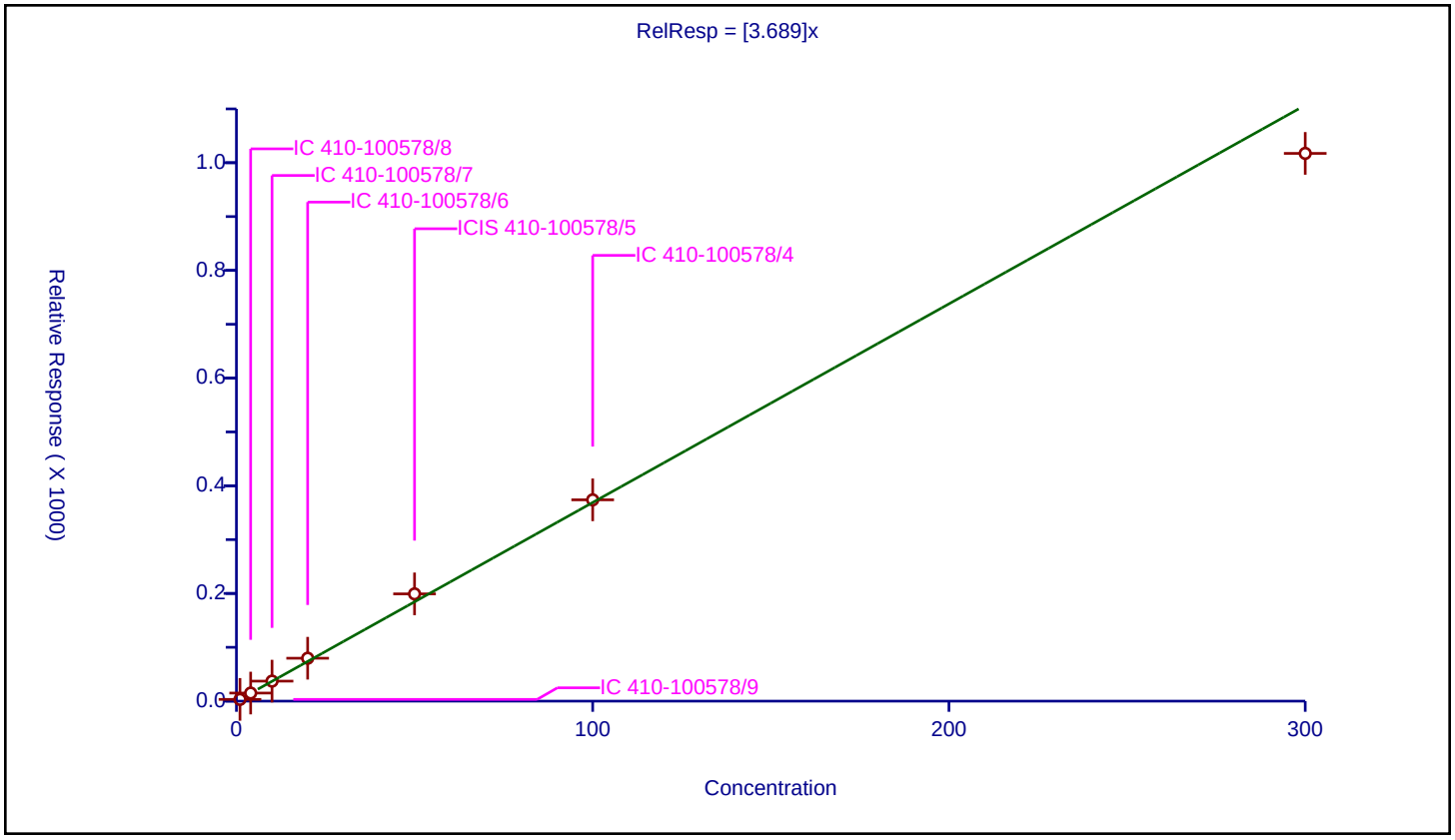
Curve Coefficients

Intercept:	0
Slope:	3.689

Error Coefficients

Standard Error:	5180000
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 410-100578/9	1.0	3.252442	50.0	540025.0	3.252442	Y
2	IC 410-100578/8	4.0	15.014979	50.0	544110.0	3.753745	Y
3	IC 410-100578/7	10.0	37.192179	50.0	556898.0	3.719218	Y
4	IC 410-100578/6	20.0	79.694085	50.0	557345.0	3.984704	Y
5	ICIS 410-100578/5	50.0	199.24451	50.0	566983.0	3.98489	Y
6	IC 410-100578/4	100.0	373.880481	50.0	574287.0	3.738805	Y
7	IC 410-100578/3	300.0	1017.351488	50.0	573775.0	3.391172	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

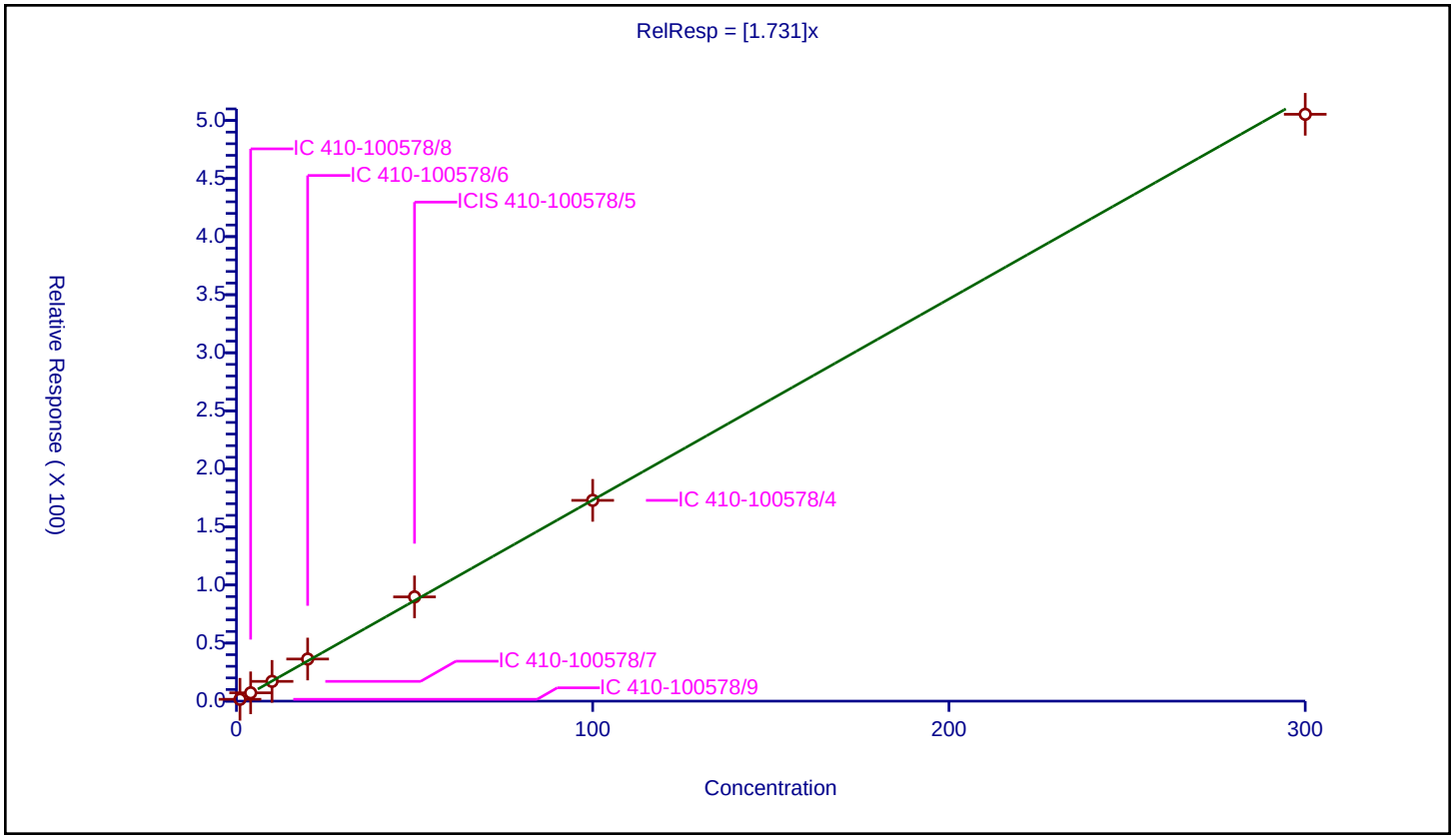
Curve Coefficients

Intercept:	0
Slope:	1.731

Error Coefficients

Standard Error:	2540000
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 410-100578/9	1.0	1.600481	50.0	540025.0	1.600481	Y
2	IC 410-100578/8	4.0	7.176398	50.0	544110.0	1.7941	Y
3	IC 410-100578/7	10.0	17.024662	50.0	556898.0	1.702466	Y
4	IC 410-100578/6	20.0	36.275826	50.0	557345.0	1.813791	Y
5	ICIS 410-100578/5	50.0	89.781969	50.0	566983.0	1.795639	Y
6	IC 410-100578/4	100.0	172.901528	50.0	574287.0	1.729015	Y
7	IC 410-100578/3	300.0	505.347479	50.0	573775.0	1.684492	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

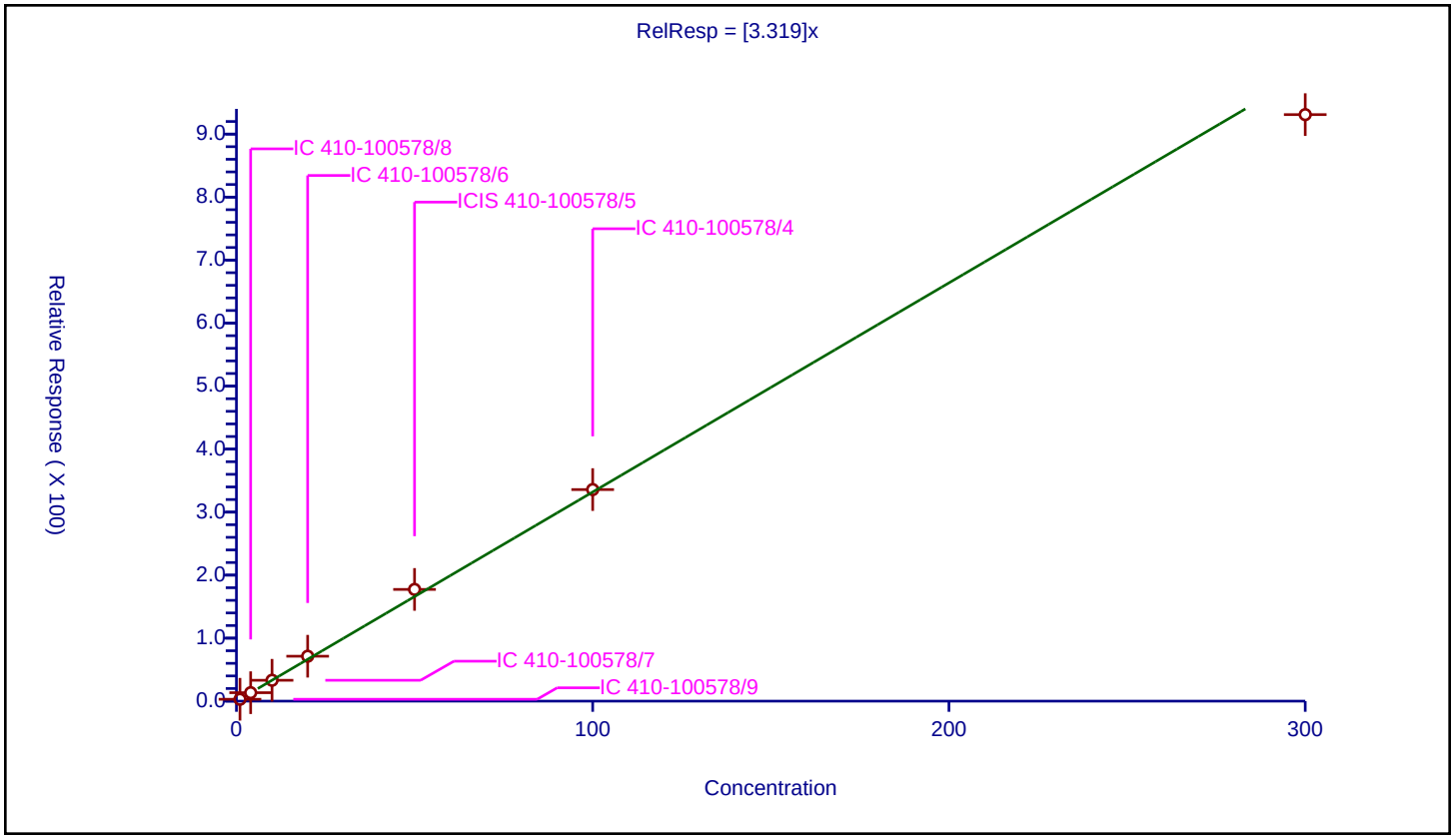
Curve Coefficients

Intercept:	0
Slope:	3.319

Error Coefficients

Standard Error:	4720000
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 410-100578/9	1.0	2.994954	50.0	540025.0	2.994954	Y
2	IC 410-100578/8	4.0	13.419437	50.0	544110.0	3.354859	Y
3	IC 410-100578/7	10.0	33.129675	50.0	556898.0	3.312968	Y
4	IC 410-100578/6	20.0	71.288789	50.0	557345.0	3.564439	Y
5	ICIS 410-100578/5	50.0	177.29782	50.0	566983.0	3.545956	Y
6	IC 410-100578/4	100.0	335.791077	50.0	574287.0	3.357911	Y
7	IC 410-100578/3	300.0	930.919001	50.0	573775.0	3.103063	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

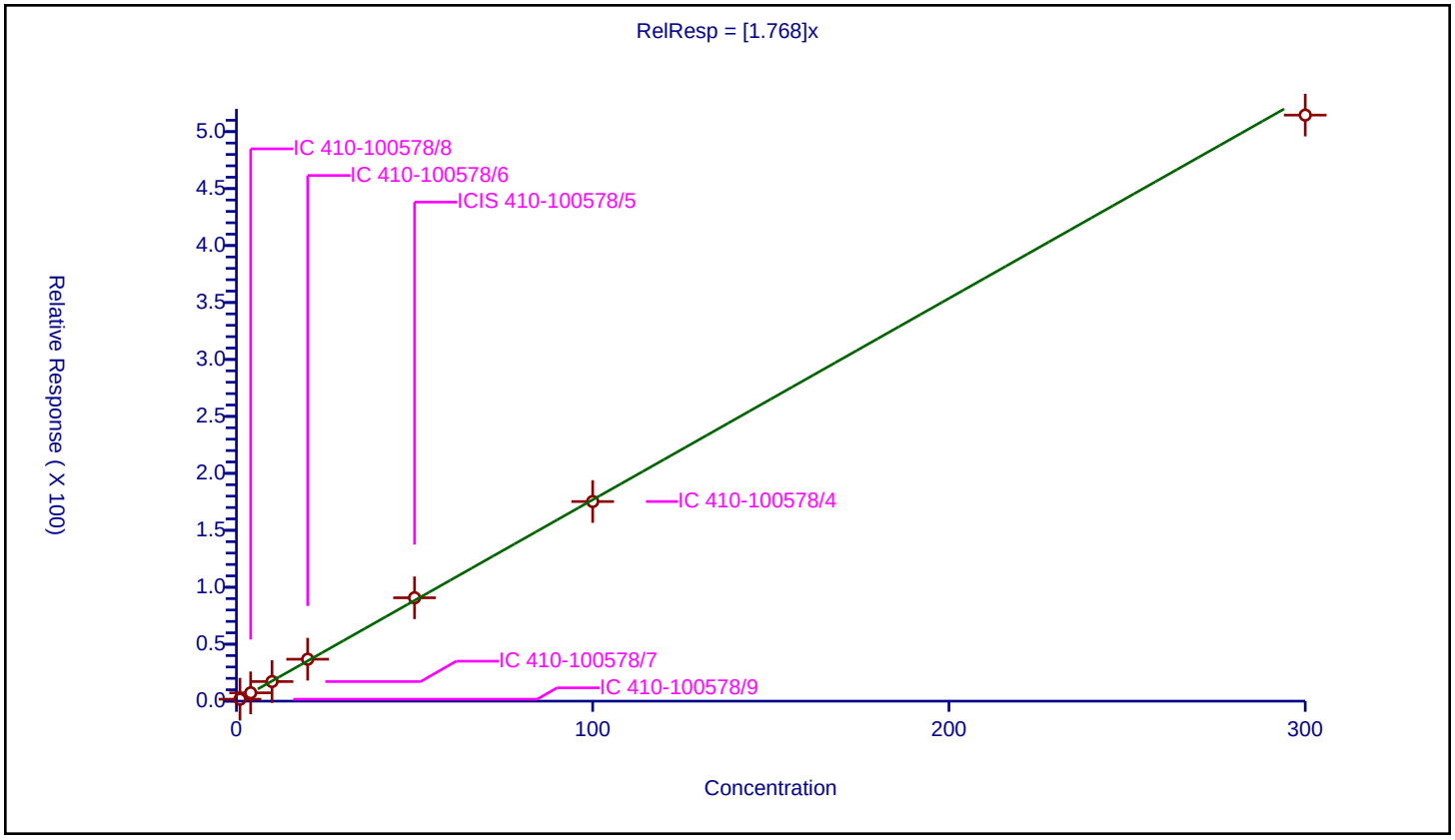
Curve Coefficients

Intercept:	0
Slope:	1.768

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.706125	50.0	540025.0	1.706125	Y
2	IC 410-100578/8	4.0	7.303486	50.0	544110.0	1.825872	Y
3	IC 410-100578/7	10.0	17.207819	50.0	556898.0	1.720782	Y
4	IC 410-100578/6	20.0	36.811849	50.0	557345.0	1.840592	Y
5	ICIS 410-100578/5	50.0	90.744872	50.0	566983.0	1.814897	Y
6	IC 410-100578/4	100.0	175.260105	50.0	574287.0	1.752601	Y
7	IC 410-100578/3	300.0	514.555531	50.0	573775.0	1.715185	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

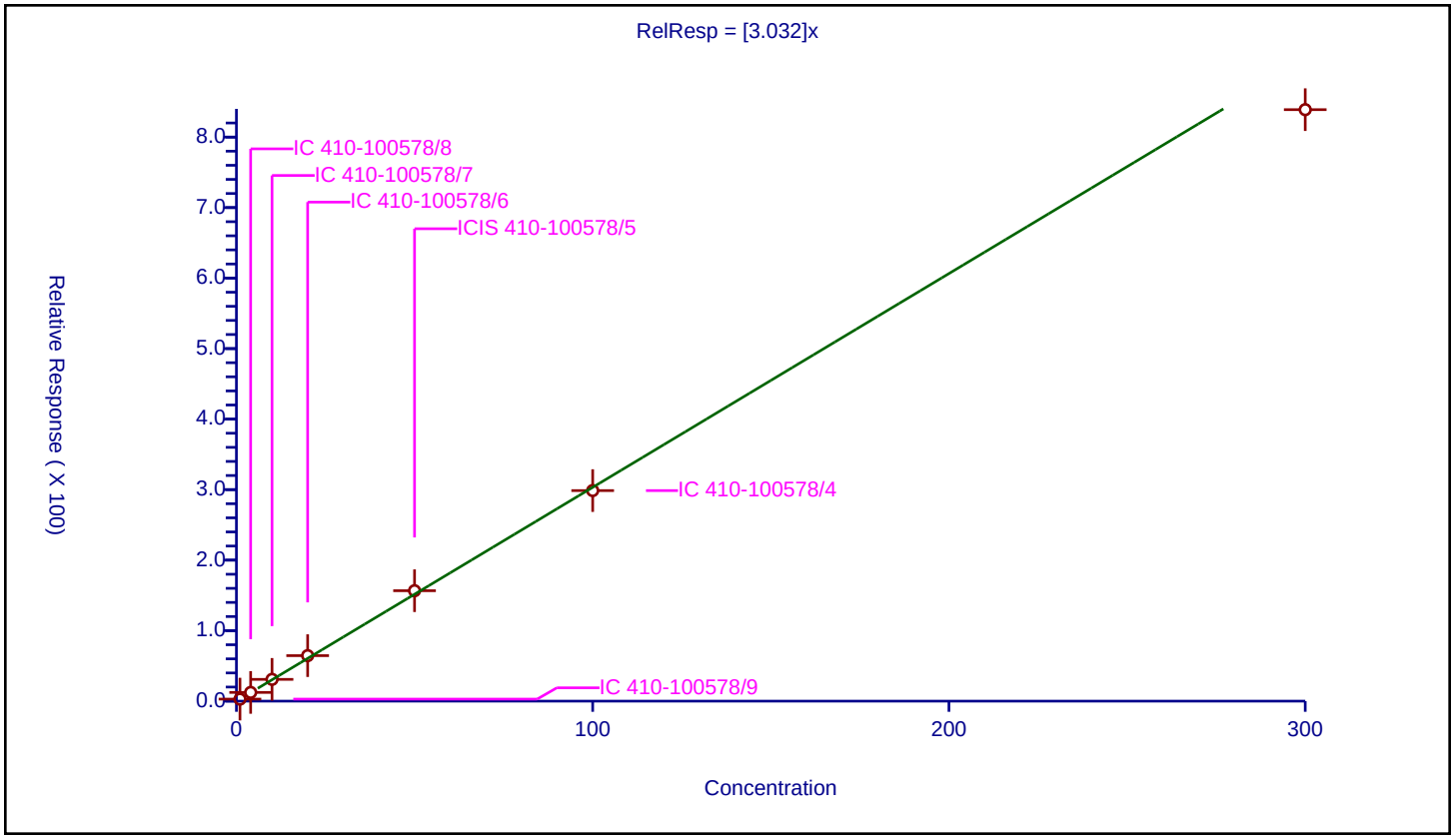
Curve Coefficients

Intercept:	0
Slope:	3.032

Error Coefficients

Standard Error:	4250000
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 410-100578/9	1.0	2.902736	50.0	540025.0	2.902736	Y
2	IC 410-100578/8	4.0	12.363125	50.0	544110.0	3.090781	Y
3	IC 410-100578/7	10.0	30.894886	50.0	556898.0	3.089489	Y
4	IC 410-100578/6	20.0	64.544492	50.0	557345.0	3.227225	Y
5	ICIS 410-100578/5	50.0	156.633091	50.0	566983.0	3.132662	Y
6	IC 410-100578/4	100.0	298.645973	50.0	574287.0	2.98646	Y
7	IC 410-100578/3	300.0	838.900266	50.0	573775.0	2.796334	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

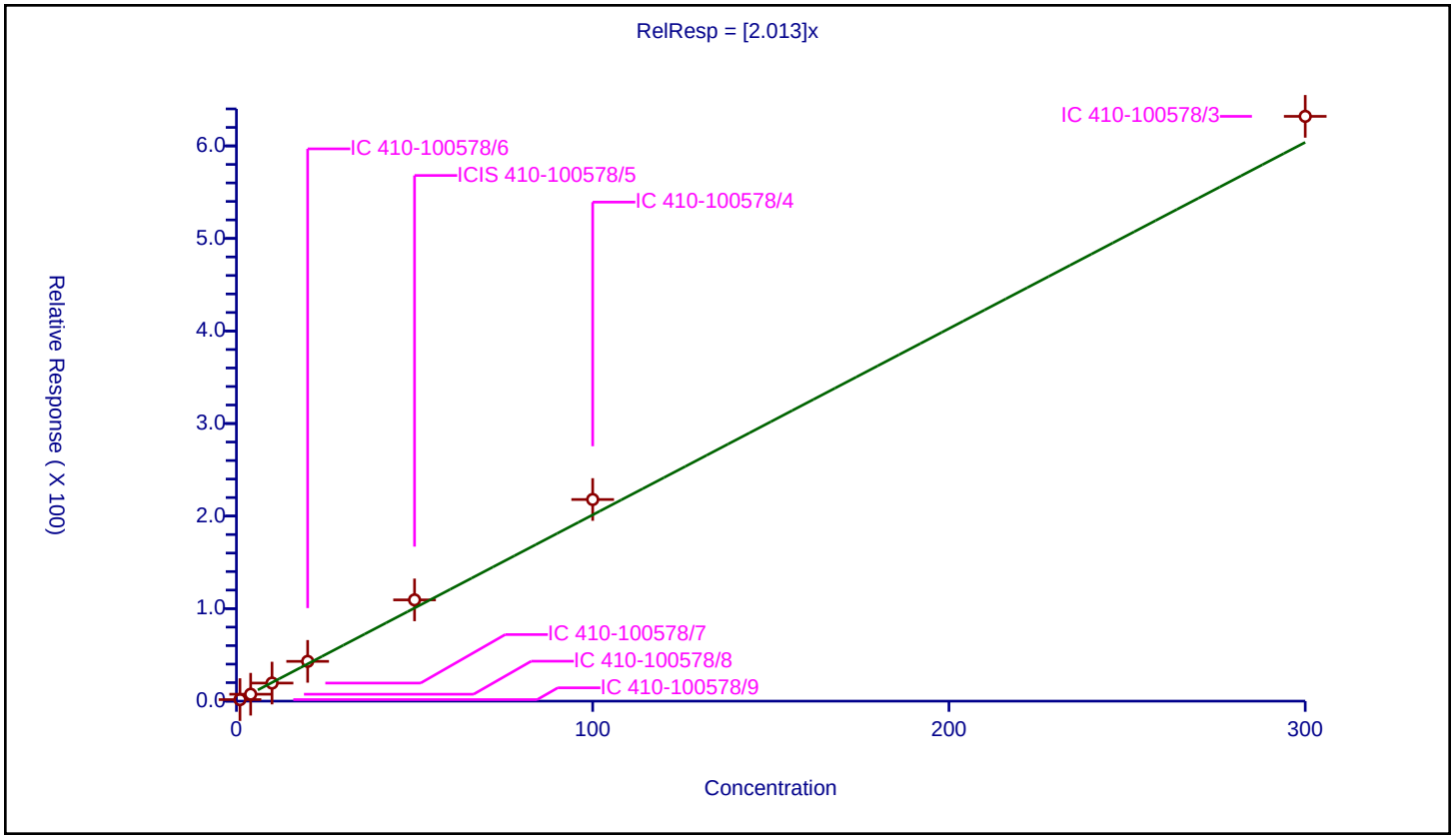
Curve Coefficients

Intercept:	0
Slope:	2.013

Error Coefficients

Standard Error:	3180000
Relative Standard Error:	10.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.645572	50.0	540025.0	1.645572	Y
2	IC 410-100578/8	4.0	7.473305	50.0	544110.0	1.868326	Y
3	IC 410-100578/7	10.0	19.536791	50.0	556898.0	1.953679	Y
4	IC 410-100578/6	20.0	42.977779	50.0	557345.0	2.148889	Y
5	ICIS 410-100578/5	50.0	109.418007	50.0	566983.0	2.18836	Y
6	IC 410-100578/4	100.0	217.884438	50.0	574287.0	2.178844	Y
7	IC 410-100578/3	300.0	631.928108	50.0	573775.0	2.106427	Y



Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

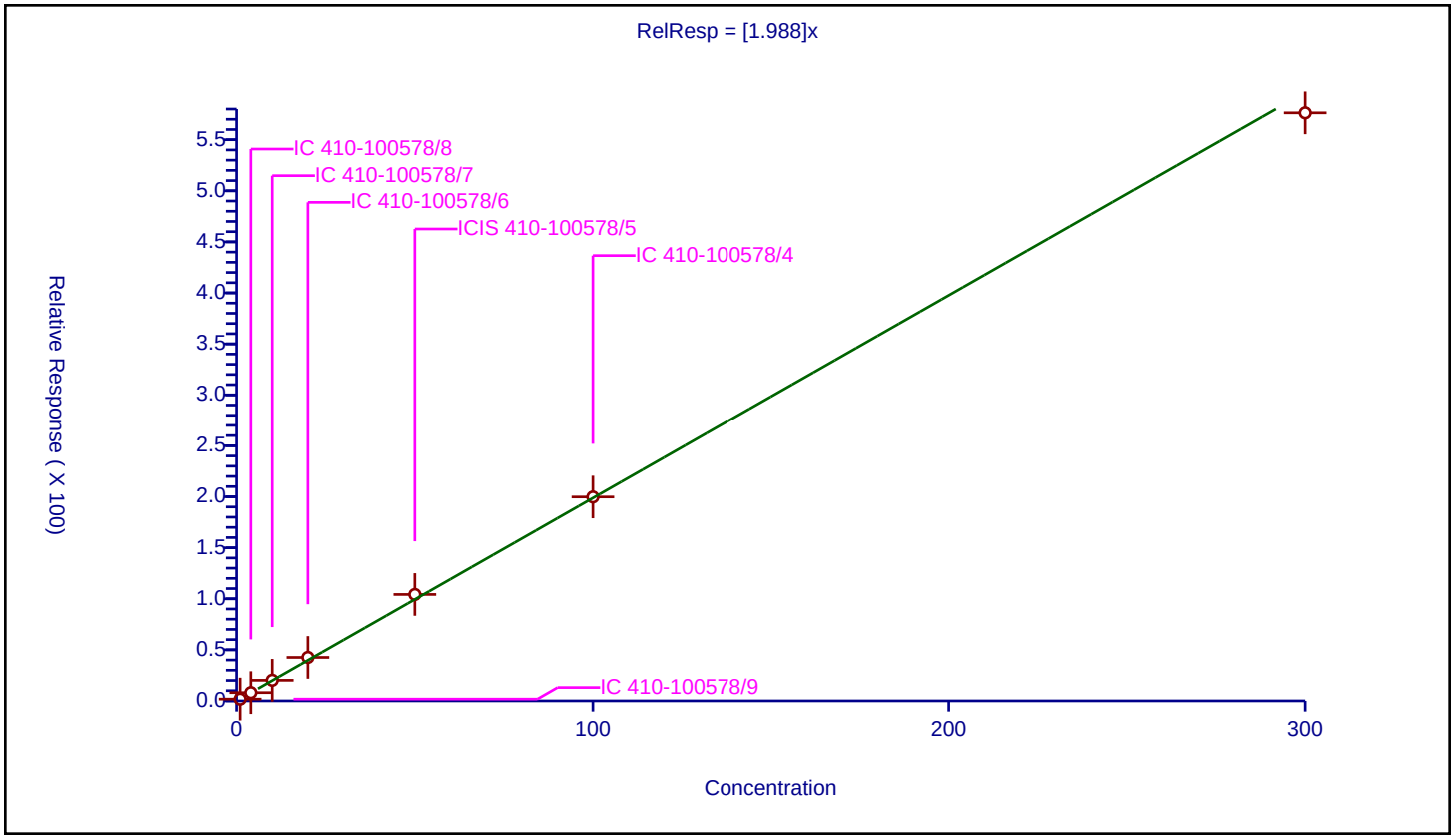
Curve Coefficients

Intercept:	0
Slope:	1.988

Error Coefficients

Standard Error:	2910000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.748067	50.0	540025.0	1.748067	Y
2	IC 410-100578/8	4.0	8.084946	50.0	544110.0	2.021237	Y
3	IC 410-100578/7	10.0	20.152972	50.0	556898.0	2.015297	Y
4	IC 410-100578/6	20.0	42.537656	50.0	557345.0	2.126883	Y
5	ICIS 410-100578/5	50.0	104.233548	50.0	566983.0	2.084671	Y
6	IC 410-100578/4	100.0	199.817861	50.0	574287.0	1.998179	Y
7	IC 410-100578/3	300.0	576.289573	50.0	573775.0	1.920965	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

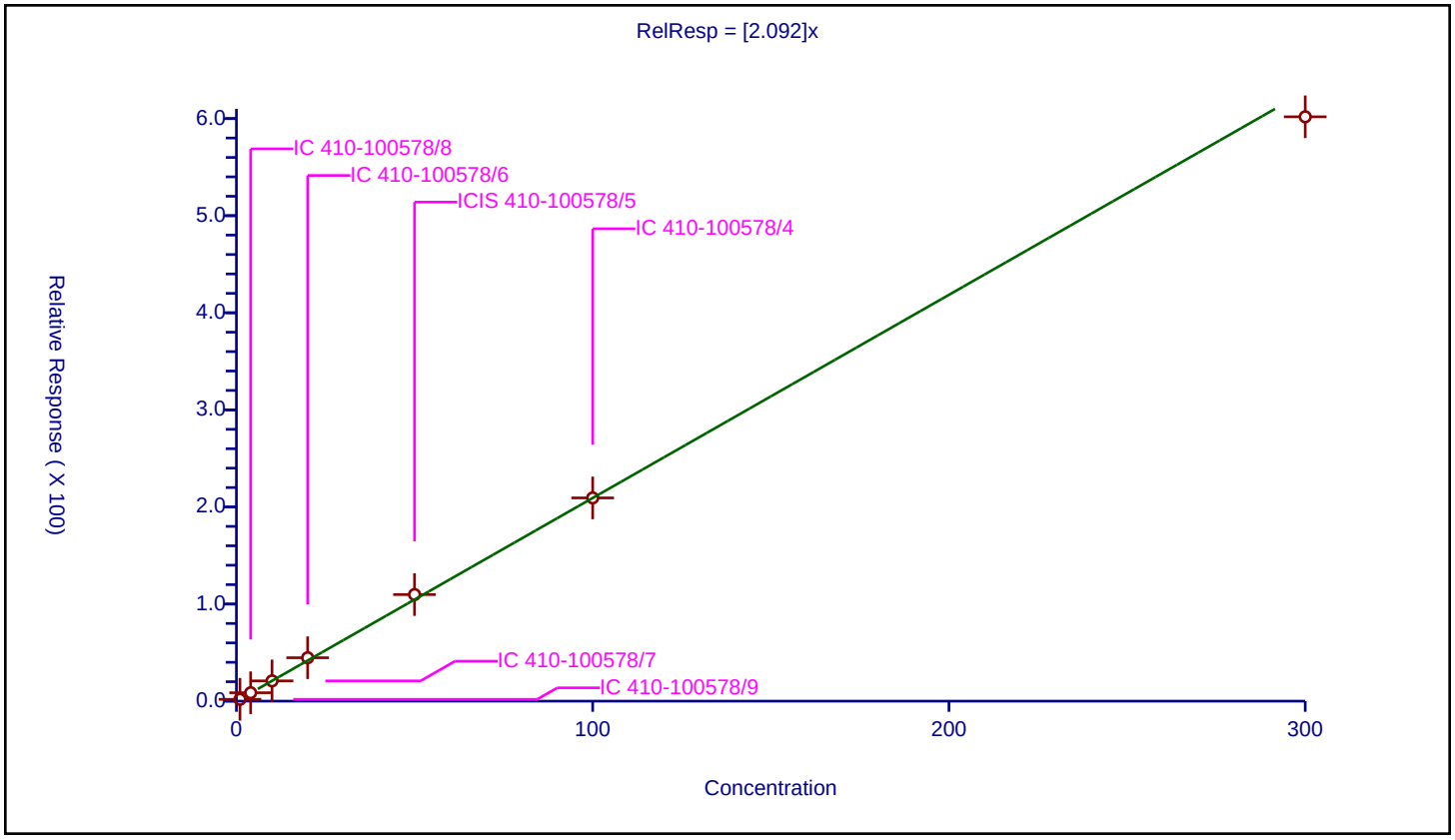
Curve Coefficients

Intercept:	0
Slope:	2.092

Error Coefficients

Standard Error:	3040000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.868617	50.0	540025.0	1.868617	Y
2	IC 410-100578/8	4.0	8.64724	50.0	544110.0	2.16181	Y
3	IC 410-100578/7	10.0	20.870429	50.0	556898.0	2.087043	Y
4	IC 410-100578/6	20.0	44.690901	50.0	557345.0	2.234545	Y
5	ICIS 410-100578/5	50.0	109.783979	50.0	566983.0	2.19568	Y
6	IC 410-100578/4	100.0	209.332355	50.0	574287.0	2.093324	Y
7	IC 410-100578/3	300.0	601.858743	50.0	573775.0	2.006196	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

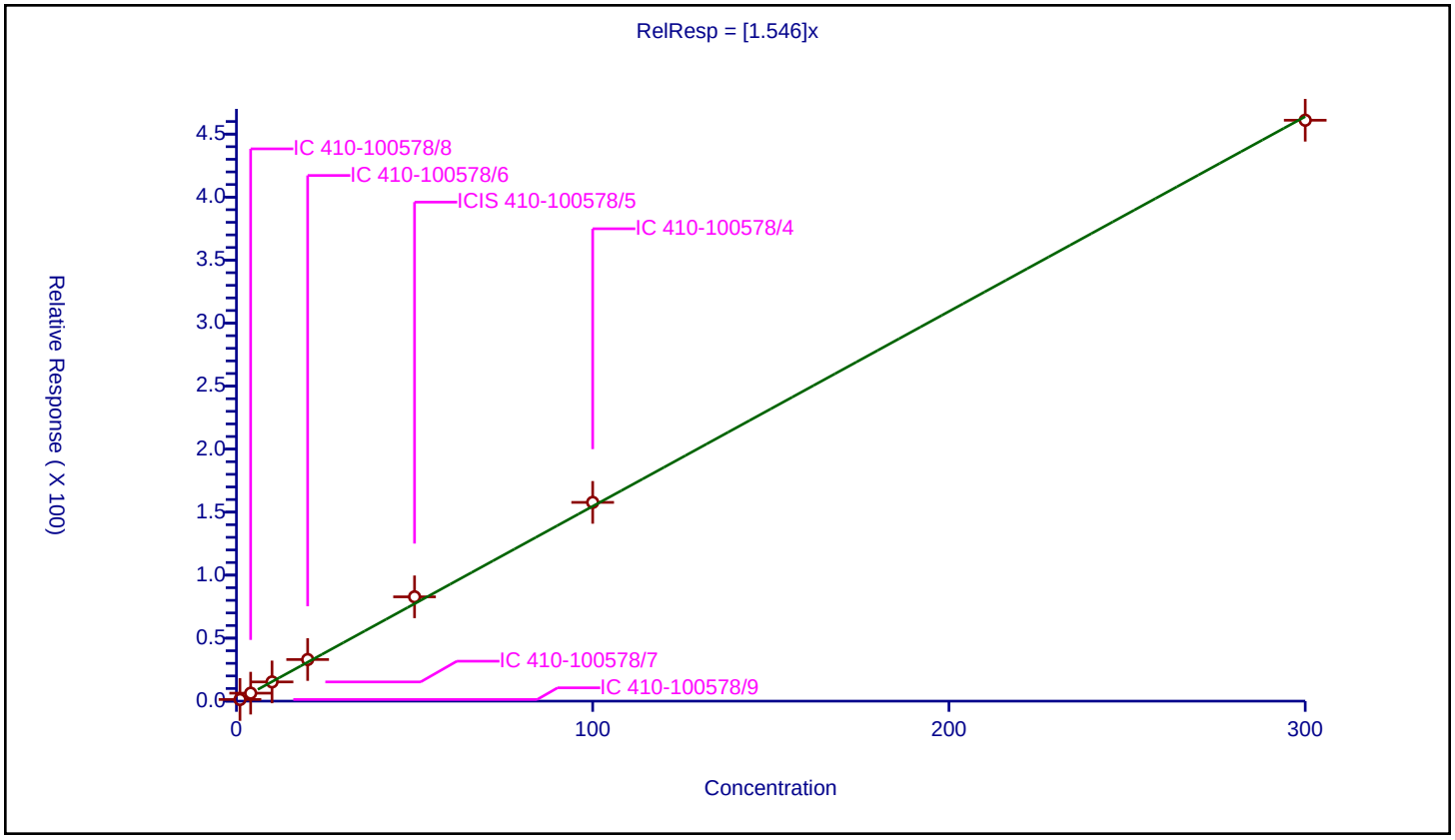
Curve Coefficients

Intercept:	0
Slope:	1.546

Error Coefficients

Standard Error:	2320000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.295773	50.0	540025.0	1.295773	Y
2	IC 410-100578/8	4.0	6.328224	50.0	544110.0	1.582056	Y
3	IC 410-100578/7	10.0	15.251177	50.0	556898.0	1.525118	Y
4	IC 410-100578/6	20.0	33.025684	50.0	557345.0	1.651284	Y
5	ICIS 410-100578/5	50.0	82.787579	50.0	566983.0	1.655752	Y
6	IC 410-100578/4	100.0	157.732458	50.0	574287.0	1.577325	Y
7	IC 410-100578/3	300.0	460.997342	50.0	573775.0	1.536658	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

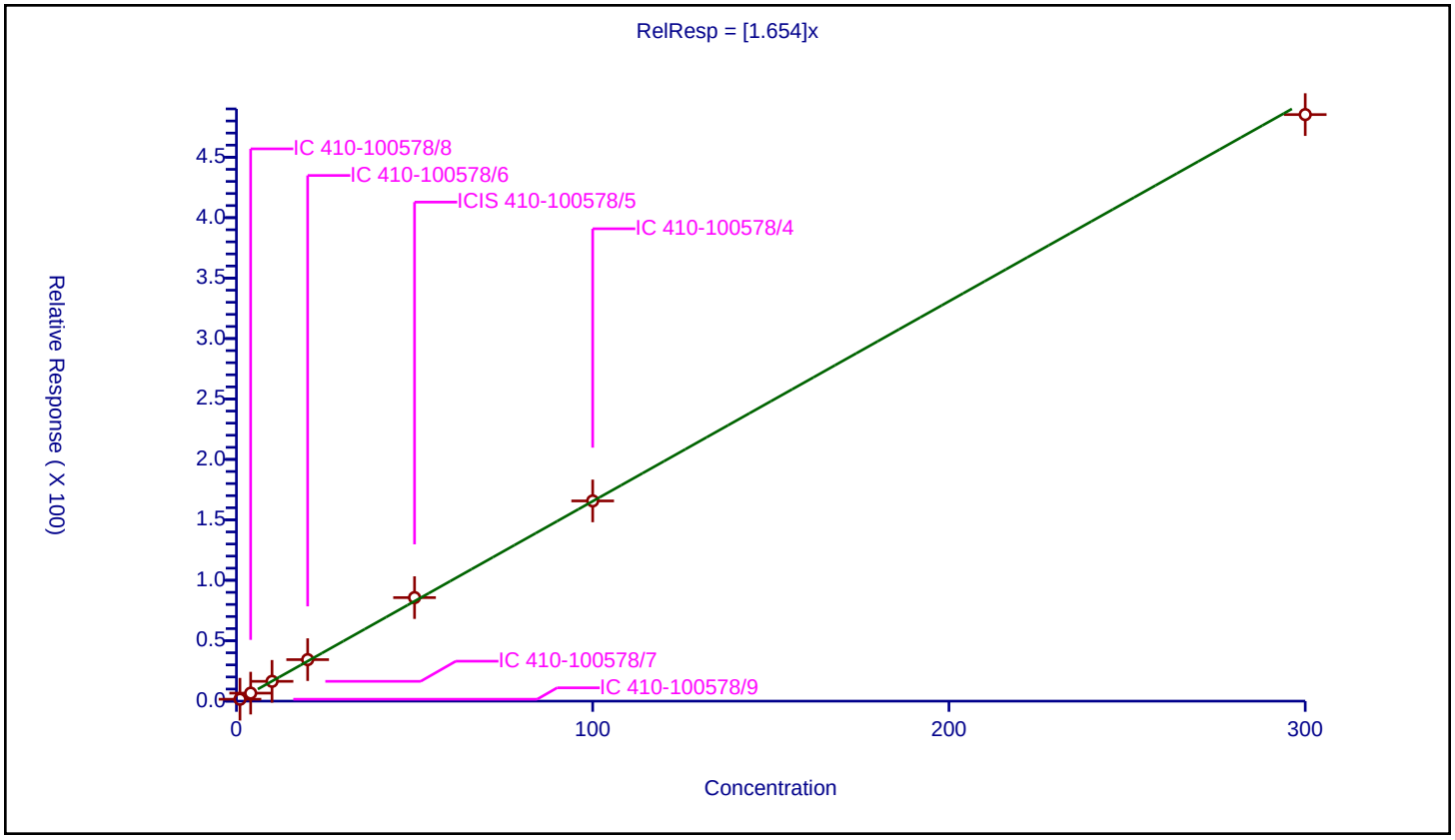
Curve Coefficients

Intercept:	0
Slope:	1.654

Error Coefficients

Standard Error:	2440000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.580112	50.0	540025.0	1.580112	Y
2	IC 410-100578/8	4.0	6.620812	50.0	544110.0	1.655203	Y
3	IC 410-100578/7	10.0	16.378313	50.0	556898.0	1.637831	Y
4	IC 410-100578/6	20.0	34.334748	50.0	557345.0	1.716737	Y
5	ICIS 410-100578/5	50.0	85.655831	50.0	566983.0	1.713117	Y
6	IC 410-100578/4	100.0	165.656806	50.0	574287.0	1.656568	Y
7	IC 410-100578/3	300.0	485.281687	50.0	573775.0	1.617606	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

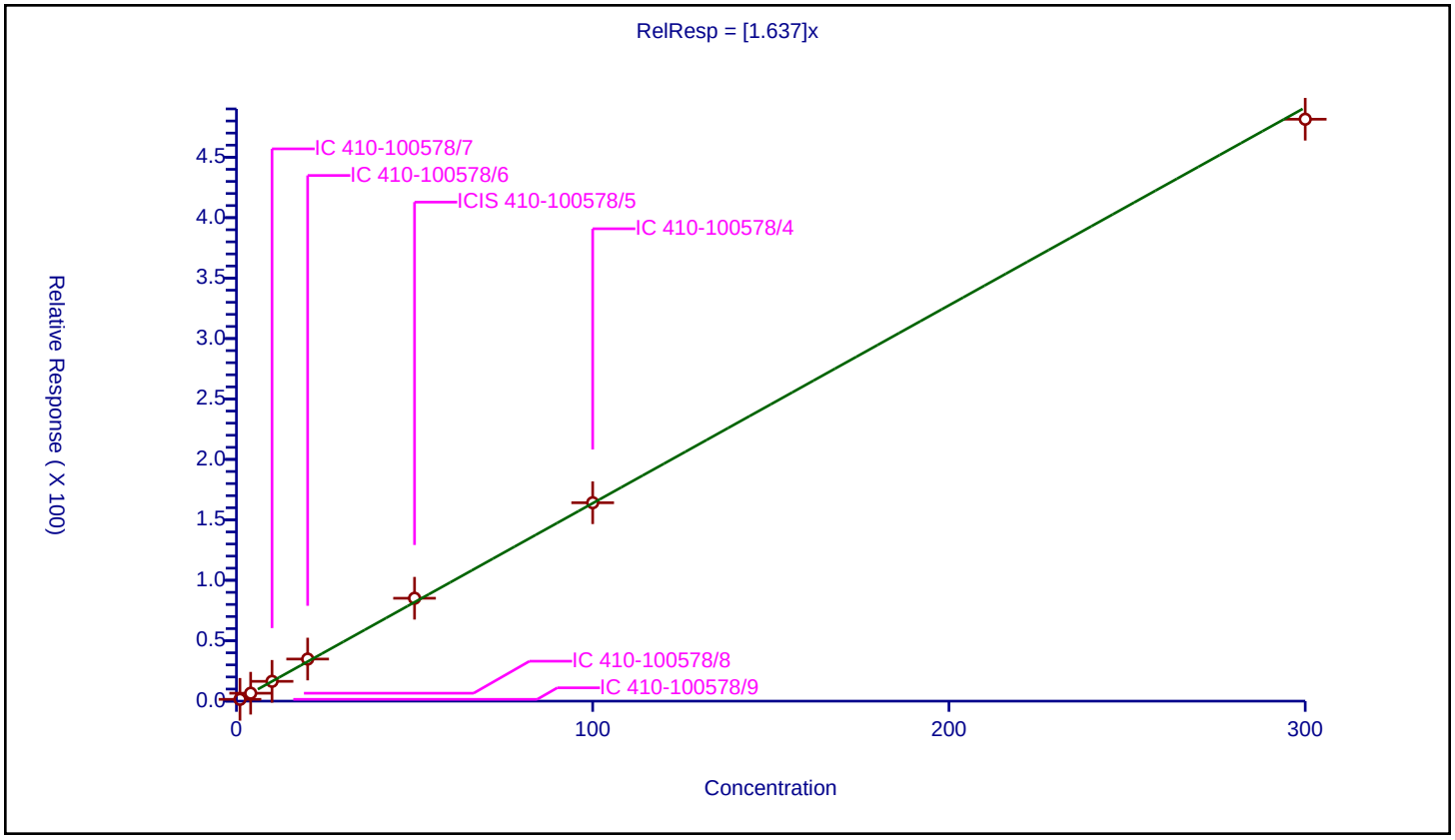
Curve Coefficients

Intercept:	0
Slope:	1.637

Error Coefficients

Standard Error:	2420000
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 410-100578/9	1.0	1.494746	50.0	540025.0	1.494746	Y
2	IC 410-100578/8	4.0	6.547481	50.0	544110.0	1.63687	Y
3	IC 410-100578/7	10.0	16.386484	50.0	556898.0	1.638648	Y
4	IC 410-100578/6	20.0	34.828786	50.0	557345.0	1.741439	Y
5	ICIS 410-100578/5	50.0	85.129801	50.0	566983.0	1.702596	Y
6	IC 410-100578/4	100.0	164.149371	50.0	574287.0	1.641494	Y
7	IC 410-100578/3	300.0	481.449261	50.0	573775.0	1.604831	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

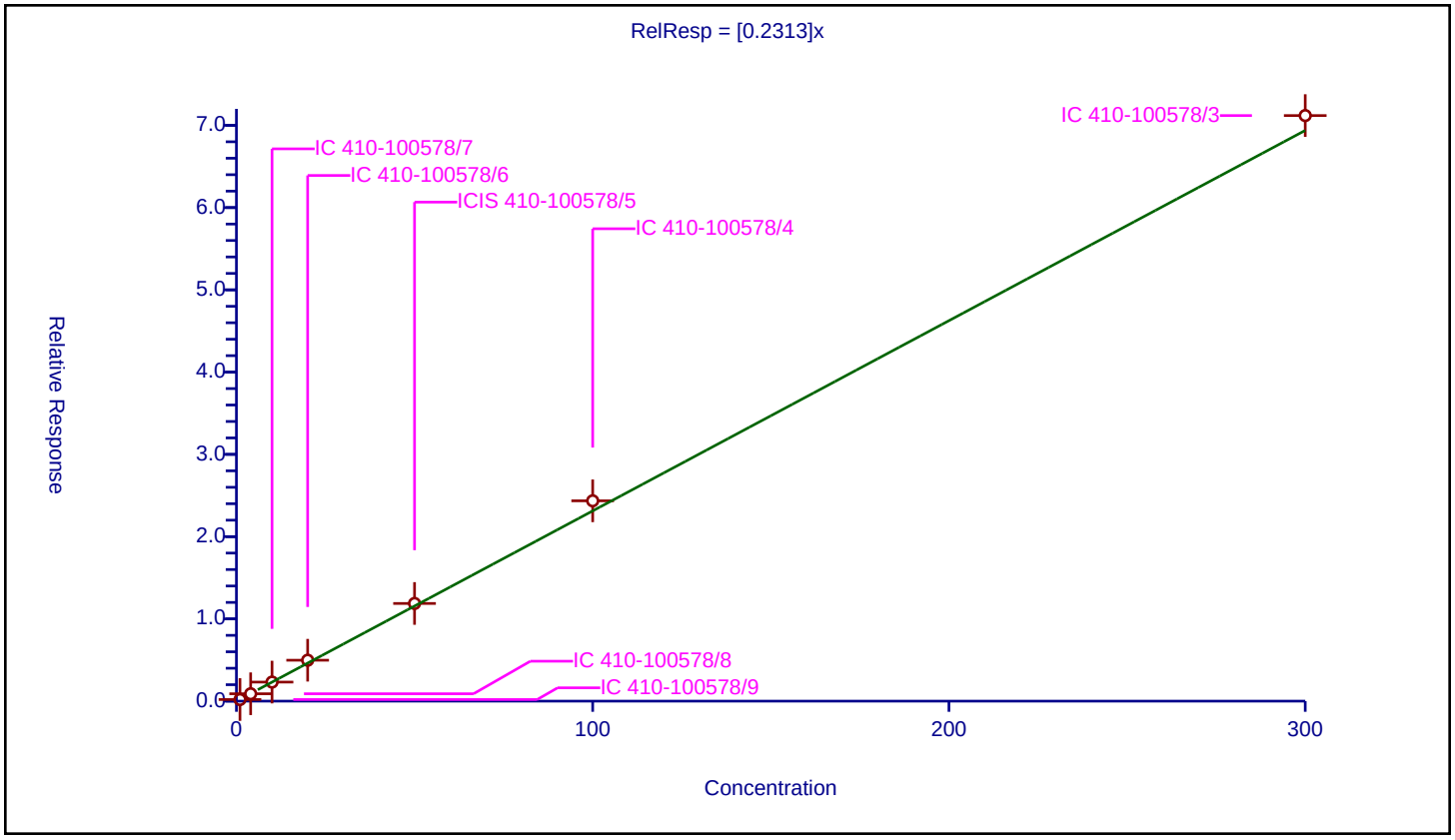
Curve Coefficients

Intercept:	0
Slope:	0.2313

Error Coefficients

Standard Error:	358000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.195917	50.0	540025.0	0.195917	Y
2	IC 410-100578/8	4.0	0.896877	50.0	544110.0	0.224219	Y
3	IC 410-100578/7	10.0	2.316044	50.0	556898.0	0.231604	Y
4	IC 410-100578/6	20.0	4.975464	50.0	557345.0	0.248773	Y
5	ICIS 410-100578/5	50.0	11.876547	50.0	566983.0	0.237531	Y
6	IC 410-100578/4	100.0	24.355418	50.0	574287.0	0.243554	Y
7	IC 410-100578/3	300.0	71.186179	50.0	573775.0	0.237287	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

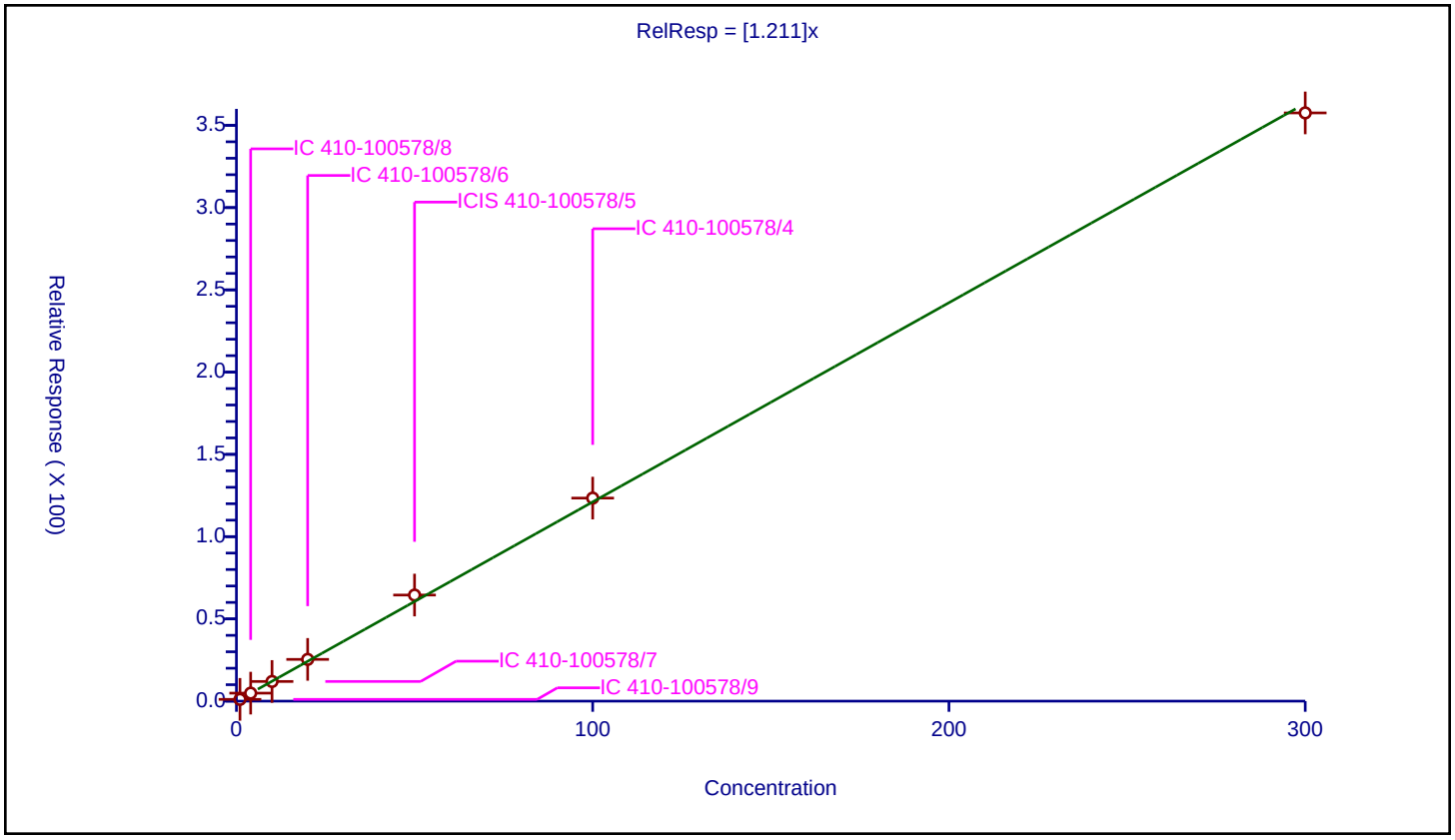
Curve Coefficients

Intercept:	0
Slope:	1.211

Error Coefficients

Standard Error:	1800000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.081894	50.0	540025.0	1.081894	Y
2	IC 410-100578/8	4.0	4.85922	50.0	544110.0	1.214805	Y
3	IC 410-100578/7	10.0	11.952817	50.0	556898.0	1.195282	Y
4	IC 410-100578/6	20.0	25.375934	50.0	557345.0	1.268797	Y
5	ICIS 410-100578/5	50.0	64.483062	50.0	566983.0	1.289661	Y
6	IC 410-100578/4	100.0	123.419736	50.0	574287.0	1.234197	Y
7	IC 410-100578/3	300.0	357.553832	50.0	573775.0	1.191846	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

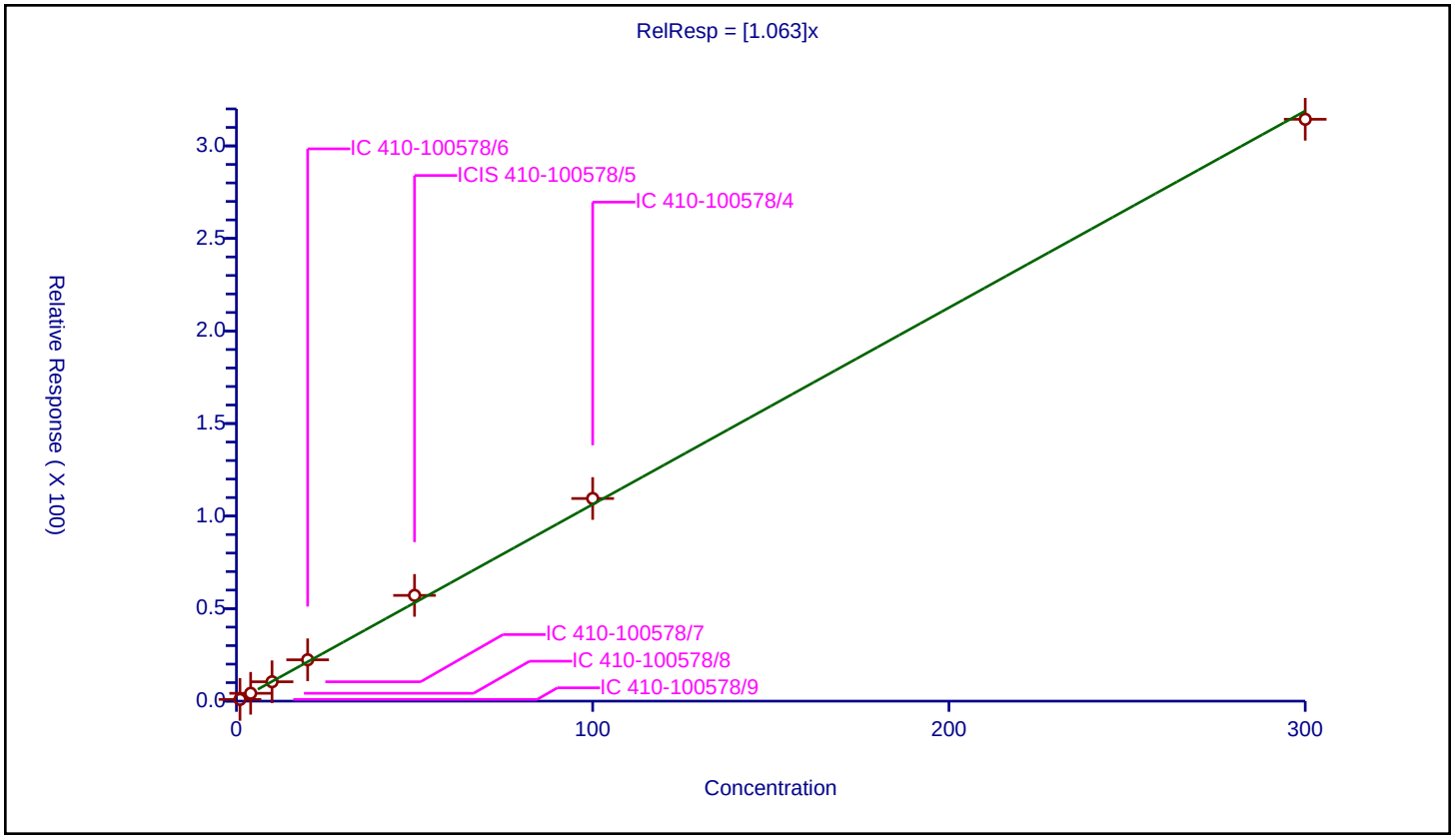
Curve Coefficients

Intercept:	0
Slope:	1.063

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.931624	50.0	540025.0	0.931624	Y
2	IC 410-100578/8	4.0	4.238757	50.0	544110.0	1.059689	Y
3	IC 410-100578/7	10.0	10.467895	50.0	556898.0	1.04679	Y
4	IC 410-100578/6	20.0	22.339664	50.0	557345.0	1.116983	Y
5	ICIS 410-100578/5	50.0	57.144394	50.0	566983.0	1.142888	Y
6	IC 410-100578/4	100.0	109.498038	50.0	574287.0	1.09498	Y
7	IC 410-100578/3	300.0	314.387434	50.0	573775.0	1.047958	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

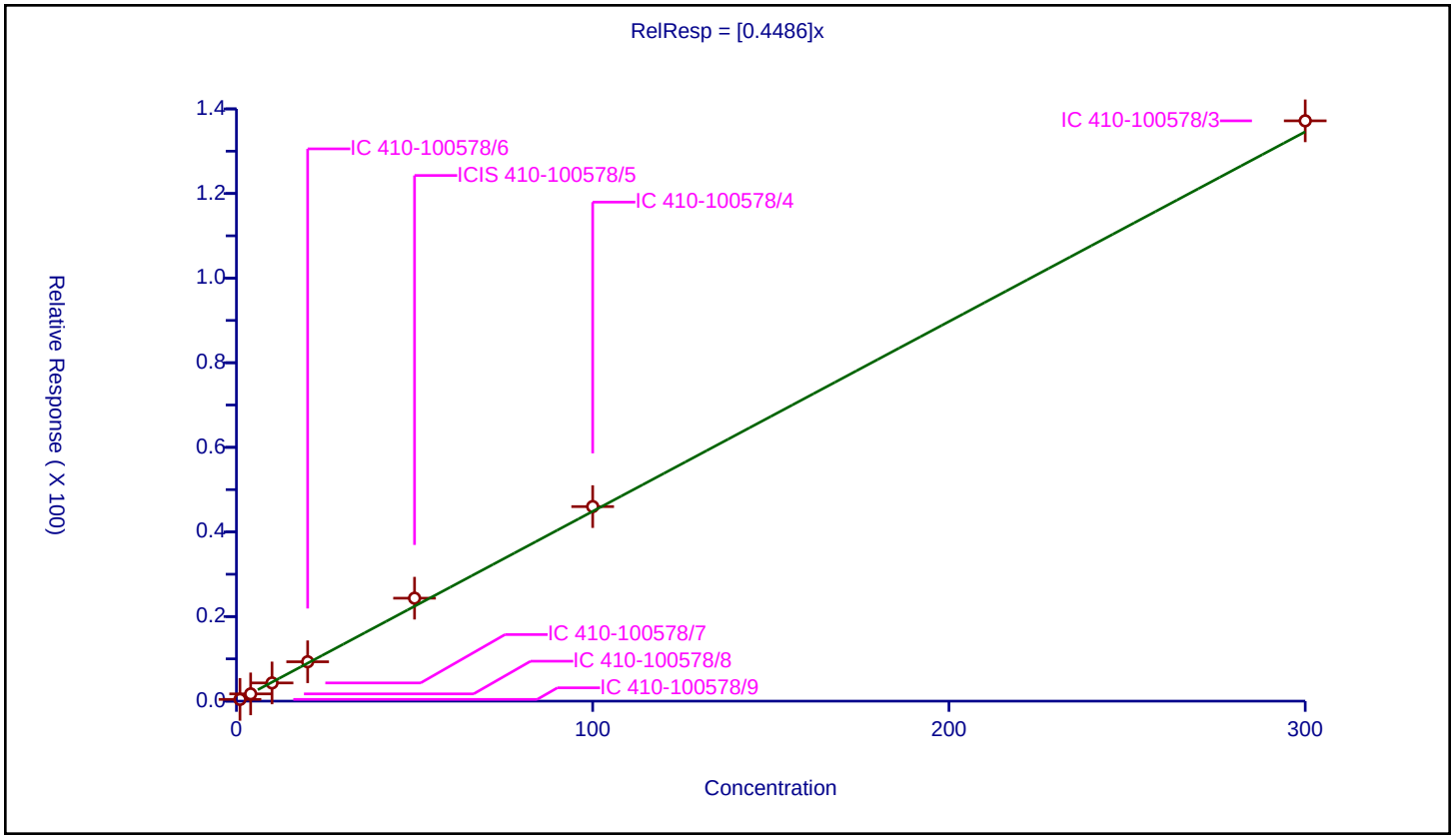
Curve Coefficients

Intercept:	0
Slope:	0.4486

Error Coefficients

Standard Error:	689000
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 410-100578/9	1.0	0.411555	50.0	540025.0	0.411555	Y
2	IC 410-100578/8	4.0	1.716748	50.0	544110.0	0.429187	Y
3	IC 410-100578/7	10.0	4.304828	50.0	556898.0	0.430483	Y
4	IC 410-100578/6	20.0	9.307251	50.0	557345.0	0.465363	Y
5	ICIS 410-100578/5	50.0	24.337767	50.0	566983.0	0.486755	Y
6	IC 410-100578/4	100.0	45.98981	50.0	574287.0	0.459898	Y
7	IC 410-100578/3	300.0	137.181909	50.0	573775.0	0.457273	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

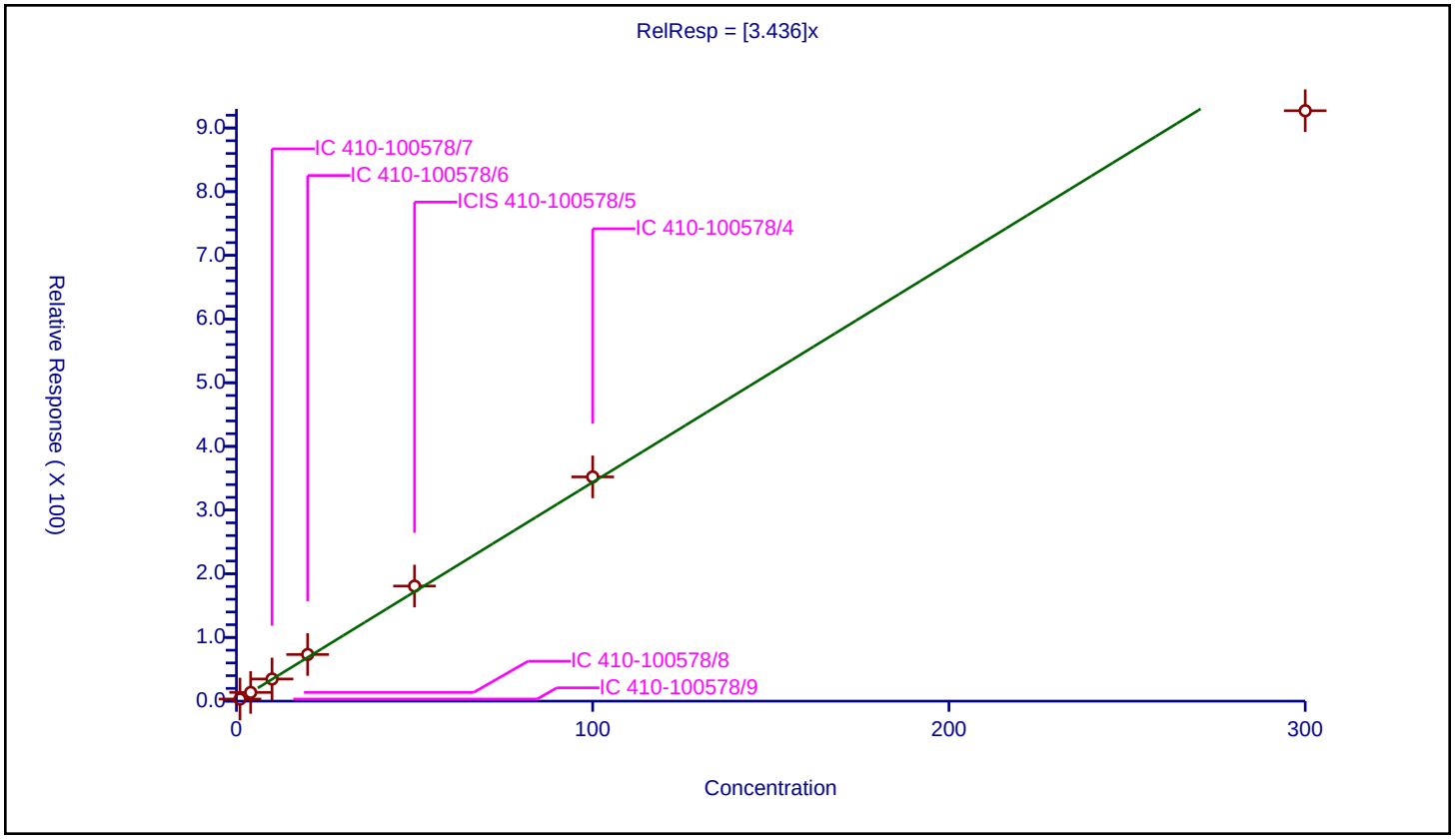
Curve Coefficients

Intercept:	0
Slope:	3.436

Error Coefficients

Standard Error:	4740000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	3.266608	50.0	540025.0	3.266608	Y
2	IC 410-100578/8	4.0	13.689971	50.0	544110.0	3.422493	Y
3	IC 410-100578/7	10.0	34.772346	50.0	556898.0	3.477235	Y
4	IC 410-100578/6	20.0	73.234442	50.0	557345.0	3.661722	Y
5	ICIS 410-100578/5	50.0	180.695277	50.0	566983.0	3.613906	Y
6	IC 410-100578/4	100.0	352.111749	50.0	574287.0	3.521117	Y
7	IC 410-100578/3	300.0	927.11969	50.0	573775.0	3.090399	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

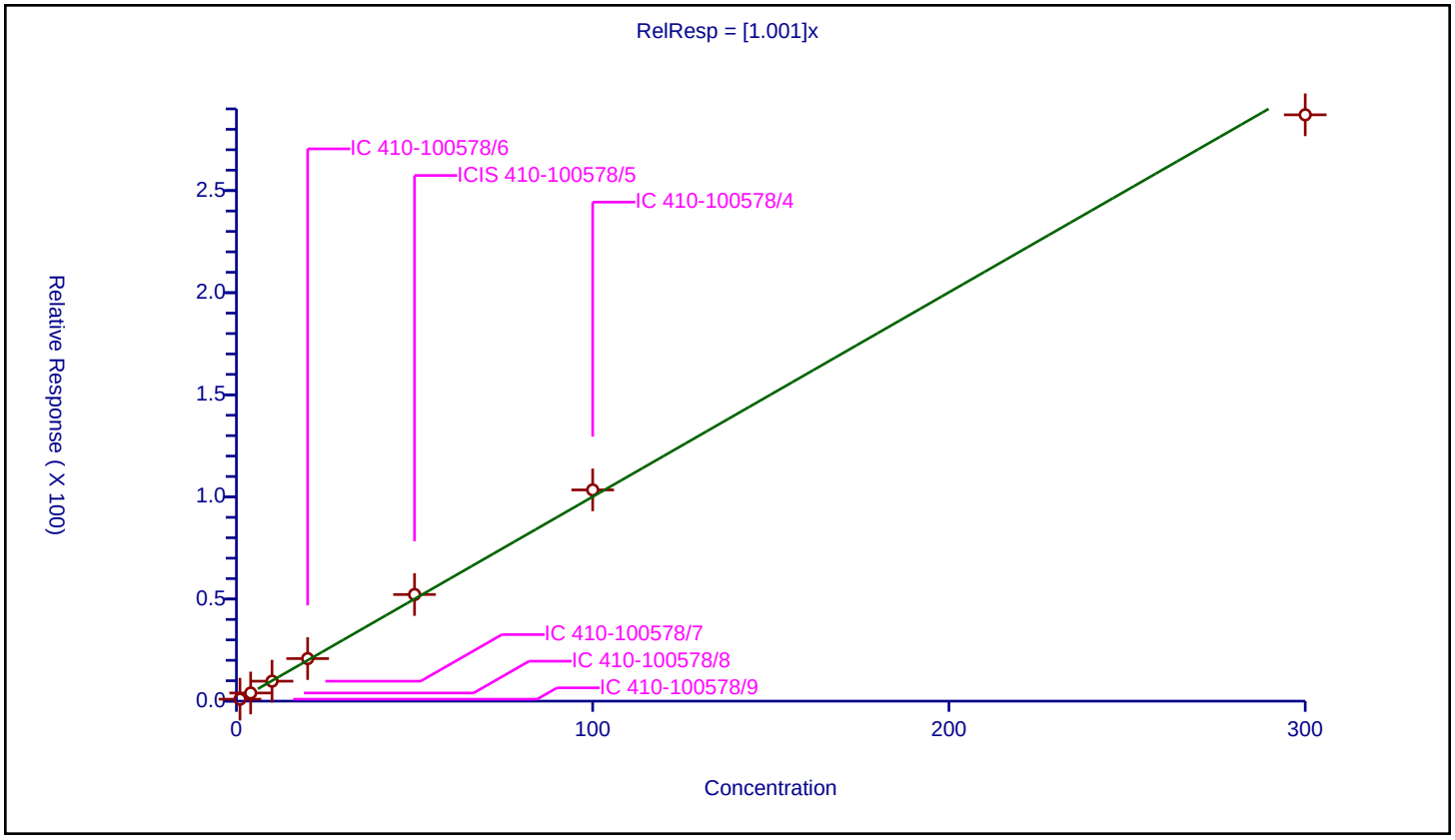
Curve Coefficients

Intercept:	0
Slope:	1.001

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	0.954585	50.0	540025.0	0.954585	Y
2	IC 410-100578/8	4.0	3.988256	50.0	544110.0	0.997064	Y
3	IC 410-100578/7	10.0	9.77504	50.0	556898.0	0.977504	Y
4	IC 410-100578/6	20.0	20.837094	50.0	557345.0	1.041855	Y
5	ICIS 410-100578/5	50.0	52.21347	50.0	566983.0	1.044269	Y
6	IC 410-100578/4	100.0	103.420502	50.0	574287.0	1.034205	Y
7	IC 410-100578/3	300.0	287.106444	50.0	573775.0	0.957021	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

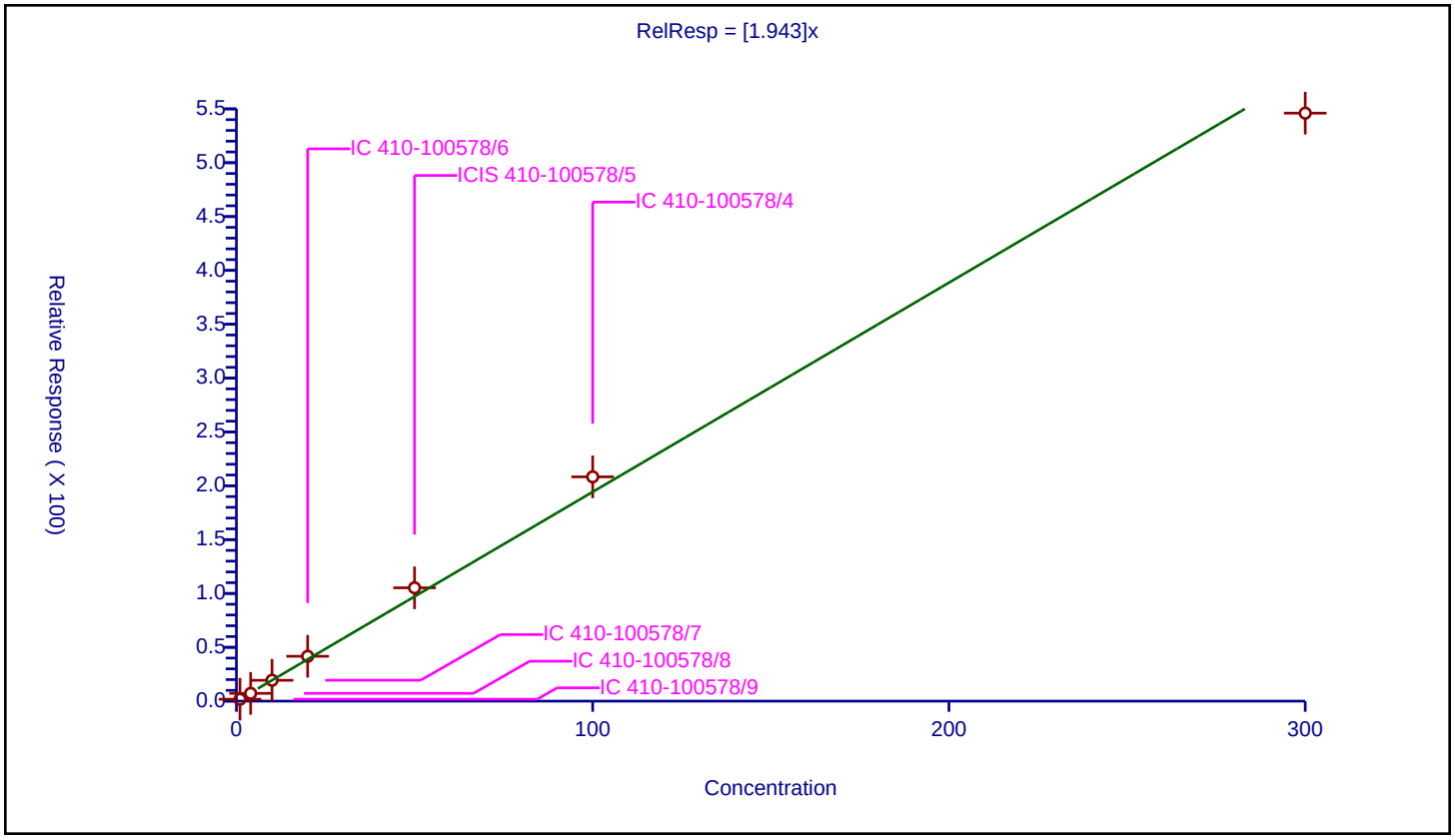
Curve Coefficients

Intercept:	0
Slope:	1.943

Error Coefficients

Standard Error:	2790000
Relative Standard Error:	7.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-100578/9	1.0	1.761678	50.0	540025.0	1.761678	Y
2	IC 410-100578/8	4.0	7.243113	50.0	544110.0	1.810778	Y
3	IC 410-100578/7	10.0	19.375002	50.0	556898.0	1.9375	Y
4	IC 410-100578/6	20.0	41.666203	50.0	557345.0	2.08331	Y
5	ICIS 410-100578/5	50.0	105.25633	50.0	566983.0	2.105127	Y
6	IC 410-100578/4	100.0	208.306474	50.0	574287.0	2.083065	Y
7	IC 410-100578/3	300.0	546.044181	50.0	573775.0	1.820147	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: ICV 410-100578/11 Calibration Date: 03/08/2021 18:47

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NM08X11.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3532	0.3237	0.1000	18.3	20.0	-8.4	30.0
Chloromethane	Ave	0.3157	0.2877	0.1000	18.2	20.0	-8.9	30.0
1,3-Butadiene	Ave	0.2845	0.3196		22.5	20.0	12.3	30.0
Vinyl chloride	Ave	0.3119	0.3093	0.1000	19.8	20.0	-0.9	30.0
Bromomethane	Ave	0.2497	0.2402	0.1000	19.2	20.0	-3.8	30.0
Chloroethane	Ave	0.2050	0.1865	0.1000	18.2	20.0	-9.0	30.0
Dichlorofluoromethane	Ave	0.4940	0.5358		21.7	20.0	8.5	30.0
Trichlorofluoromethane	Ave	0.5439	0.5209	0.1000	19.2	20.0	-4.2	30.0
n-Pentane	Ave	0.4539	0.4670		20.6	20.0	2.9	30.0
Ethanol	Ave	0.0551	0.0585		1060	1000	6.1	30.0
Freon 123a	Ave	0.3193	0.3282		20.6	20.0	2.8	30.0
Acrolein	Ave	1.917	1.945		152	150	1.4	30.0
1,1-Dichloroethene	Ave	0.2552	0.2674	0.1000	21.0	20.0	4.8	30.0
Freon 113	Ave	0.2945	0.2874	0.1000	19.5	20.0	-2.4	30.0
Acetone	Ave	0.7656	0.8384	0.1000	164	150	9.5	30.0
2-Propanol	Ave	0.4861	0.4970		153	150	2.2	30.0
Methyl iodide	Ave	0.5248	0.5072		19.3	20.0	-3.4	30.0
Carbon disulfide	Ave	0.7653	0.7969	0.1000	20.8	20.0	4.1	30.0
Methyl acetate	Ave	0.2839	0.2389	0.1000	16.8	20.0	-15.8	30.0
Allyl chloride	Ave	0.4423	0.4210		19.0	20.0	-4.8	30.0
Methylene Chloride	Ave	0.2860	0.2866	0.1000	20.0	20.0	0.2	30.0
t-Butyl alcohol	Ave	1.097	1.048		191	200	-4.5	30.0
Acrylonitrile	Ave	0.1406	0.1339		95.2	100	-4.8	30.0
Methyl tertiary butyl ether	Ave	0.9057	0.8579	0.1000	18.9	20.0	-5.3	30.0
trans-1,2-Dichloroethene	Ave	0.2961	0.2943	0.1000	19.9	20.0	-0.6	30.0
n-Hexane	Ave	0.4318	0.4420		20.5	20.0	2.4	30.0
1,1-Dichloroethane	Ave	0.4940	0.4803	0.2000	19.4	20.0	-2.8	30.0
di-Isopropyl ether	Ave	0.8729	0.8476		19.4	20.0	-2.9	30.0
2-Chloro-1,3-butadiene	Ave	0.4721	0.4615		19.5	20.0	-2.3	30.0
Ethyl t-butyl ether	Ave	0.8839	0.8624		19.5	20.0	-2.4	30.0
2-Butanone	Ave	0.1978	0.1894	0.1000	144	150	-4.2	30.0
cis-1,2-Dichloroethene	Ave	0.3357	0.3324	0.1000	19.8	20.0	-1.0	30.0
2,2-Dichloropropane	Ave	0.4999	0.4750		19.0	20.0	-5.0	30.0
Propionitrile	Ave	1.230	1.233		150	150	0.3	30.0
Methacrylonitrile	Ave	0.1578	0.1533		146	150	-2.8	30.0
Bromochloromethane	Ave	0.1835	0.1665		18.1	20.0	-9.3	30.0
Tetrahydrofuran	Ave	1.243	1.396		112	100	12.3	30.0
Chloroform	Ave	0.5395	0.5244	0.2000	19.4	20.0	-2.8	30.0
1,1,1-Trichloroethane	Ave	0.5272	0.5130	0.1000	19.5	20.0	-2.7	30.0
Cyclohexane	Ave	0.5123	0.5226	0.1000	20.4	20.0	2.0	30.0
1,1-Dichloropropene	Ave	0.4167	0.4030		19.3	20.0	-3.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: ICV 410-100578/11 Calibration Date: 03/08/2021 18:47

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NM08X11.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
Carbon tetrachloride	Ave	0.4726	0.4615	0.1000	19.5	20.0	-2.3	30.0
Isobutyl alcohol	Ave	0.3443	0.3428		498	500	-0.4	30.0
Benzene	Ave	1.190	1.146	0.5000	19.3	20.0	-3.7	30.0
1,2-Dichloroethane	Ave	0.4331	0.4164	0.1000	19.2	20.0	-3.9	30.0
t-Amyl methyl ether	Ave	0.9031	0.8830		19.6	20.0	-2.2	30.0
n-Heptane	Ave	0.4310	0.4110		19.1	20.0	-4.6	30.0
n-Butanol	Ave	0.2661	0.2788		1050	1000	4.8	30.0
Trichloroethene	Ave	0.3260	0.3157	0.2000	19.4	20.0	-3.2	30.0
Methylcyclohexane	Ave	0.6137	0.5800	0.1000	18.9	20.0	-5.5	30.0
1,2-Dichloropropane	Ave	0.2892	0.2812	0.1000	19.4	20.0	-2.8	30.0
t-Amyl ethyl ether	Ave	0.4939	0.4900		19.8	20.0	-0.8	30.0
Methyl methacrylate	Ave	0.2682	0.2569		19.2	20.0	-4.2	30.0
1,4-Dioxane	Ave	0.0534	0.0598	0.0050	559	500	11.9	30.0
Dibromomethane	Ave	0.2012	0.1945		19.3	20.0	-3.4	30.0
Bromodichloromethane	Ave	0.4051	0.3885	0.2000	19.2	20.0	-4.1	30.0
2-Nitropropane	Ave	2.910	2.879		19.8	20.0	-1.1	30.0
2-Chloroethyl vinyl ether	Ave	0.2130	0.2018		18.9	20.0	-5.3	30.0
cis-1,3-Dichloropropene	Ave	0.4810	0.4648	0.2000	19.3	20.0	-3.4	30.0
4-Methyl-2-pentanone	Ave	0.4153	0.3989	0.1000	96.1	100	-3.9	30.0
Toluene	Ave	0.9789	0.9349	0.4000	19.1	20.0	-4.5	30.0
trans-1,3-Dichloropropene	Ave	0.5428	0.5388	0.1000	19.9	20.0	-0.7	30.0
Ethyl methacrylate	Ave	0.5517	0.5365		19.5	20.0	-2.7	30.0
1,1,2-Trichloroethane	Ave	0.3496	0.3338	0.1000	19.1	20.0	-4.5	30.0
Tetrachloroethene	Ave	0.5034	0.5021	0.2000	19.9	20.0	-0.3	30.0
1,3-Dichloropropane	Ave	0.5629	0.5375		19.1	20.0	-4.5	30.0
2-Hexanone	Ave	0.3803	0.3729	0.1000	98.1	100	-1.9	30.0
Dibromochloromethane	Ave	0.4197	0.3924		18.7	20.0	-6.5	30.0
1,2-Dibromoethane	Ave	0.3865	0.3600	0.1000	18.6	20.0	-6.9	30.0
1-Chlorohexane	Ave	0.5910	0.5393		18.2	20.0	-8.8	30.0
Chlorobenzene	Ave	1.147	1.108	0.5000	19.3	20.0	-3.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4272	0.4077		19.1	20.0	-4.6	30.0
Ethylbenzene	Ave	1.960	1.908	0.1000	19.5	20.0	-2.6	30.0
m&p-Xylene	Ave	0.7927	0.7584	0.1000	38.3	40.0	-4.3	30.0
o-Xylene	Ave	0.7822	0.7565	0.3000	19.3	20.0	-3.3	30.0
Styrene	Ave	1.270	1.230	0.3000	19.4	20.0	-3.1	30.0
Bromoform	Ave	0.3193	0.2843	0.1000	17.8	20.0	-11.0	30.0
Isopropylbenzene	Ave	2.096	1.986	0.1000	18.9	20.0	-5.3	30.0
Cyclohexanone	Ave	0.2215	0.2233		504	500	0.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8855	0.8746	0.3000	19.8	20.0	-1.2	30.0
Bromobenzene	Ave	0.9163	0.8761		19.1	20.0	-4.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3143	0.3049		97.0	100	-3.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: ICV 410-100578/11 Calibration Date: 03/08/2021 18:47

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NM08X11.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
1,2,3-Trichloropropane	Ave	0.3141	0.3020		19.2	20.0	-3.9	30.0
N-Propylbenzene	Ave	3.959	3.914		19.8	20.0	-1.1	30.0
2-Chlorotoluene	Ave	0.8693	0.8252		19.0	20.0	-5.1	30.0
1,3,5-Trimethylbenzene	Ave	2.971	2.911		19.6	20.0	-2.0	30.0
4-Chlorotoluene	Ave	0.8837	0.8438		19.1	20.0	-4.5	30.0
tert-Butylbenzene	Ave	0.6818	0.6460		19.0	20.0	-5.2	30.0
Pentachloroethane	Ave	0.5635	0.4981		17.7	20.0	-11.6	30.0
1,2,4-Trimethylbenzene	Ave	3.043	2.932		19.3	20.0	-3.7	30.0
sec-Butylbenzene	Ave	3.689	3.648		19.8	20.0	-1.1	30.0
1,3-Dichlorobenzene	Ave	1.731	1.674	0.6000	19.3	20.0	-3.3	30.0
p-Isopropyltoluene	Ave	3.319	3.315		20.0	20.0	-0.1	30.0
1,4-Dichlorobenzene	Ave	1.768	1.701	0.5000	19.2	20.0	-3.8	30.0
1,2,3-Trimethylbenzene	Ave	3.032	3.046		20.1	20.0	0.4	30.0
Benzyl chloride	Ave	2.013	1.890		18.8	20.0	-6.1	30.0
1,3-Diethylbenzene	Ave	1.988	1.911		19.2	20.0	-3.9	30.0
1,4-Diethylbenzene	Ave	2.092	2.029		19.4	20.0	-3.0	30.0
n-Butylbenzene	Ave	1.546	1.505		19.5	20.0	-2.7	30.0
1,2-Dichlorobenzene	Ave	1.654	1.580	0.4000	19.1	20.0	-4.5	30.0
1,2-Diethylbenzene	Ave	1.637	1.573		19.2	20.0	-3.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2313	0.2030	0.0500	17.6	20.0	-12.2	30.0
1,3,5-Trichlorobenzene	Ave	1.211	1.158		19.1	20.0	-4.4	30.0
1,2,4-Trichlorobenzene	Ave	1.063	1.021	0.2000	19.2	20.0	-4.0	30.0
Hexachlorobutadiene	Ave	0.4486	0.4314		19.2	20.0	-3.8	30.0
Naphthalene	Ave	3.436	3.280		19.1	20.0	-4.5	30.0
1,2,3-Trichlorobenzene	Ave	1.001	0.9626		19.2	20.0	-3.8	30.0
2-Methylnaphthalene	Ave	1.943	1.727		17.8	20.0	-11.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2616	0.2621		50.1	50.0	0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0639	0.0628		49.1	50.0	-1.8	30.0
Toluene-d8 (Surr)	Ave	1.243	1.241		49.9	50.0	-0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4954	0.4924		49.7	50.0	-0.6	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X11.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Mar-2021 18:47:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023524-011
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 7159
Sublist:

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 10-Mar-2021 09:09:00 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: campbellme Date: 09-Mar-2021 00:13:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.012	2.006	0.006	99	147684	20.0	18.3	
6 Chloromethane	50	2.219	2.219	0.000	99	131258	20.0	18.2	
8 Vinyl chloride	62	2.341	2.341	0.000	71	141109	20.0	19.8	
9 Butadiene	39	2.341	2.341	0.000	93	145817	20.0	22.5	
10 Bromomethane	94	2.682	2.676	0.006	92	109612	20.0	19.2	
11 Chloroethane	64	2.773	2.773	0.000	99	85105	20.0	18.2	
12 Dichlorofluoromethane	67	3.022	3.016	0.006	97	244462	20.0	21.7	
13 Trichlorofluoromethane	101	3.083	3.083	0.000	97	237680	20.0	19.2	
15 Pentane	43	3.144	3.144	0.000	95	213052	20.0	20.6	
16 Ethanol	45	3.235	3.260	-0.025	88	52256	1000.1	1061.1	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.442	3.436	0.006	89	149724	20.0	20.6	
18 Acrolein	56	3.539	3.533	0.006	99	260631	150.0	152.1	
20 1,1-Dichloroethene	96	3.685	3.679	0.006	99	121981	20.0	21.0	
22 112TCTFE	101	3.716	3.710	0.006	81	131128	20.0	19.5	
21 Acetone	58	3.722	3.728	-0.006	100	112364	150.0	164.3	
23 Isopropyl alcohol	45	3.844	3.832	0.012	96	66610	150.0	153.4	
24 Iodomethane	142	3.892	3.892	0.000	99	231406	20.0	19.3	
25 Carbon disulfide	76	4.008	4.002	0.006	100	363604	20.0	20.8	
26 Methyl acetate	43	4.148	4.154	-0.006	97	109017	20.0	16.8	
27 3-Chloro-1-propene	41	4.190	4.178	0.012	88	192083	20.0	19.0	
28 Methylene Chloride	84	4.379	4.379	0.000	92	130759	20.0	20.0	
* 29 t-Butyl alcohol-d10 (IS)	65	4.397	4.391	0.006	0	223382	250.0	250.0	
31 2-Methyl-2-propanol	59	4.513	4.543	-0.030	98	187199	200.0	191.0	
32 Acrylonitrile	53	4.720	4.720	0.000	99	305540	100.0	95.2	
33 Methyl tert-butyl ether	73	4.787	4.793	-0.006	95	391413	20.0	18.9	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	98	134282	20.0	19.9	
36 Hexane	57	5.231	5.225	0.006	94	201665	20.0	20.5	
37 1,1-Dichloroethane	63	5.468	5.462	0.006	96	219159	20.0	19.4	
39 Isopropyl ether	45	5.523	5.517	0.006	91	386729	20.0	19.4	
40 2-Chloro-1,3-butadiene	53	5.577	5.571	0.006	93	210544	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.064	6.058	0.006	96	393466	20.0	19.5	
43 2-Butanone (MEK)	43	6.253	6.259	-0.006	100	648062	150.0	143.6	
44 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	83	151664	20.0	19.8	
45 2,2-Dichloropropane	77	6.314	6.320	-0.006	89	216729	20.0	19.0	
46 Propionitrile	54	6.338	6.344	-0.006	100	165255	150.0	150.4	
47 Methacrylonitrile	67	6.563	6.557	0.006	91	524587	150.0	145.7	
48 Chlorobromomethane	128	6.636	6.642	-0.006	69	75955	20.0	18.1	
49 Tetrahydrofuran	71	6.642	6.642	0.000	85	124766	100.0	112.3	
50 Chloroform	83	6.788	6.782	0.006	94	239244	20.0	19.4	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	298953	50.0	50.1	
52 1,1,1-Trichloroethane	97	7.019	7.013	0.006	97	234054	20.0	19.5	
54 Cyclohexane	56	7.123	7.123	0.000	91	238425	20.0	20.4	
56 1,1-Dichloropropene	75	7.232	7.226	0.006	92	183869	20.0	19.3	
55 Carbon tetrachloride	117	7.238	7.232	0.006	96	210573	20.0	19.5	
58 Isobutyl alcohol	41	7.348	7.354	-0.006	92	153147	500.0	497.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.457	0.006	97	71597	50.0	49.1	
60 Benzene	78	7.494	7.494	0.000	97	522791	20.0	19.3	
61 1,2-Dichloroethane	62	7.567	7.567	0.000	98	189975	20.0	19.2	
62 Tert-amyl methyl ether	73	7.682	7.676	0.006	97	402858	20.0	19.6	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	1140648	50.0	50.0	
65 n-Heptane	43	7.907	7.914	-0.007	91	187524	20.0	19.1	
66 n-Butanol	56	8.242	8.242	0.000	90	249110	1000.0	1047.7	
67 Trichloroethene	95	8.388	8.382	0.006	97	144036	20.0	19.4	
68 Methylcyclohexane	83	8.698	8.698	0.000	93	264627	20.0	18.9	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	70	128315	20.0	19.4	
69 2-ethoxy-2-methyl butane	87	8.717	8.723	-0.006	92	223588	20.0	19.8	
71 Methyl methacrylate	69	8.790	8.790	0.000	90	117216	20.0	19.2	
72 1,4-Dioxane	88	8.802	8.802	0.000	36	26695	500.0	559.5	
74 Dibromomethane	93	8.832	8.832	0.000	93	88724	20.0	19.3	
75 Dichlorobromomethane	83	9.063	9.063	0.000	99	177262	20.0	19.2	
77 2-Nitropropane	41	9.325	9.325	0.000	99	51447	20.0	19.8	
78 2-Chloroethyl vinyl ether	63	9.410	9.410	0.000	95	92055	20.0	18.9	
79 cis-1,3-Dichloropropene	75	9.599	9.599	0.000	94	212062	20.0	19.3	
80 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	96	910108	100.0	96.1	
$ 81 Toluene-d8 (Surr)	98	9.903	9.903	0.000	94	1169991	50.0	49.9	
82 Toluene	92	9.976	9.976	0.000	97	352547	20.0	19.1	
84 trans-1,3-Dichloropropene	75	10.225	10.225	0.000	95	203185	20.0	19.9	
85 Ethyl methacrylate	69	10.280	10.280	0.000	88	202327	20.0	19.5	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	92	125891	20.0	19.1	
87 Tetrachloroethene	166	10.523	10.523	0.000	98	189341	20.0	19.9	
88 1,3-Dichloropropane	76	10.590	10.590	0.000	93	202675	20.0	19.1	
89 2-Hexanone	43	10.633	10.633	0.000	97	703184	100.0	98.1	
90 Chlorodibromomethane	129	10.809	10.809	0.000	90	147957	20.0	18.7	
91 Ethylene Dibromide	107	10.919	10.919	0.000	98	135744	20.0	18.6	
* 93 Chlorobenzene-d5 (IS)	117	11.345	11.345	0.000	86	942752	50.0	50.0	
94 1-Chlorohexane	91	11.351	11.351	0.000	96	203374	20.0	18.2	
95 Chlorobenzene	112	11.369	11.375	-0.006	96	417805	20.0	19.3	
96 1,1,1,2-Tetrachloroethane	131	11.454	11.454	0.000	92	153730	20.0	19.1	
97 Ethylbenzene	91	11.454	11.454	0.000	98	719583	20.0	19.5	
98 m-Xylene & p-Xylene	106	11.570	11.570	0.000	99	571996	40.0	38.3	
99 o-Xylene	106	11.898	11.898	0.000	95	285293	20.0	19.3	
100 Styrene	104	11.910	11.911	-0.001	95	463889	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Bromoform	173	12.075	12.075	0.000	96	107194	20.0	17.8	
102 Isopropylbenzene	105	12.196	12.196	0.000	95	748814	20.0	18.9	
103 Cyclohexanone	55	12.275	12.269	0.006	93	99787	500.0	504.2	
$ 104 4-Bromofluorobenzene (Surr)	95	12.342	12.342	0.000	93	464168	50.0	49.7	
105 1,1,2,2-Tetrachloroethane	83	12.440	12.440	0.000	95	193664	20.0	19.8	
106 Bromobenzene	156	12.458	12.464	-0.006	95	194006	20.0	19.1	
107 trans-1,4-Dichloro-2-butene	53	12.464	12.464	0.000	94	337566	100.0	97.0	
108 1,2,3-Trichloropropane	110	12.488	12.488	0.000	87	66871	20.0	19.2	
109 N-Propylbenzene	91	12.525	12.525	0.000	98	866791	20.0	19.8	
110 2-Chlorotoluene	126	12.604	12.604	0.000	97	182737	20.0	19.0	
111 1,3,5-Trimethylbenzene	105	12.659	12.659	0.000	94	644604	20.0	19.6	
112 4-Chlorotoluene	126	12.695	12.695	0.000	97	186854	20.0	19.1	
113 tert-Butylbenzene	134	12.902	12.902	0.000	92	143053	20.0	19.0	
114 Pentachloroethane	167	12.939	12.939	0.000	91	110300	20.0	17.7	
115 1,2,4-Trimethylbenzene	105	12.945	12.945	0.000	97	649286	20.0	19.3	
116 sec-Butylbenzene	105	13.066	13.066	0.000	94	807707	20.0	19.8	
117 1,3-Dichlorobenzene	146	13.170	13.170	0.000	97	370766	20.0	19.3	
118 4-Isopropyltoluene	119	13.176	13.176	0.000	97	734035	20.0	20.0	
* 119 1,4-Dichlorobenzene-d4	152	13.225	13.225	0.000	95	553592	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.243	13.243	0.000	94	376666	20.0	19.2	
121 1,2,3-Trimethylbenzene	105	13.249	13.249	0.000	98	674433	20.0	20.1	
122 Benzyl chloride	91	13.316	13.316	0.000	99	418418	20.0	18.8	
123 1,3-Diethylbenzene	119	13.377	13.377	0.000	95	423062	20.0	19.2	
124 p-Diethylbenzene	119	13.450	13.444	0.006	95	449290	20.0	19.4	
125 n-Butylbenzene	92	13.468	13.468	0.000	96	333184	20.0	19.5	
126 1,2-Dichlorobenzene	146	13.504	13.504	0.000	98	349804	20.0	19.1	
127 o-diethylbenzene	119	13.517	13.517	0.000	95	348236	20.0	19.2	
129 1,2-Dibromo-3-Chloropropane	75	14.046	14.046	0.000	87	44944	20.0	17.6	
130 1,3,5-Trichlorobenzene	180	14.174	14.174	0.000	97	256316	20.0	19.1	
131 1,2,4-Trichlorobenzene	180	14.599	14.599	0.000	95	226032	20.0	19.2	
132 Hexachlorobutadiene	225	14.678	14.679	-0.001	98	95527	20.0	19.2	
133 Naphthalene	128	14.782	14.782	0.000	97	726300	20.0	19.1	
134 1,2,3-Trichlorobenzene	180	14.928	14.928	0.000	96	213144	20.0	19.2	
135 2-Methylnaphthalene	142	15.585	15.585	0.000	92	382324	20.0	17.8	

QC Flag Legend

Processing Flags

Reagents:

MSV_Q_QARC_00071	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA1_00071	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA6_00069	Amount Added: 50.00	Units: uL	
MSV_QCYC_00005	Amount Added: 50.00	Units: uL	
MSV_Q_ETOH_00008	Amount Added: 50.00	Units: uL	
MSV_DCFM_00036	Amount Added: 1.00	Units: uL	
MSV_Q_QGases_00131	Amount Added: 50.00	Units: uL	
MSV_HP11_ISSS_00005	Amount Added: 5.00	Units: uL	Run Reagent

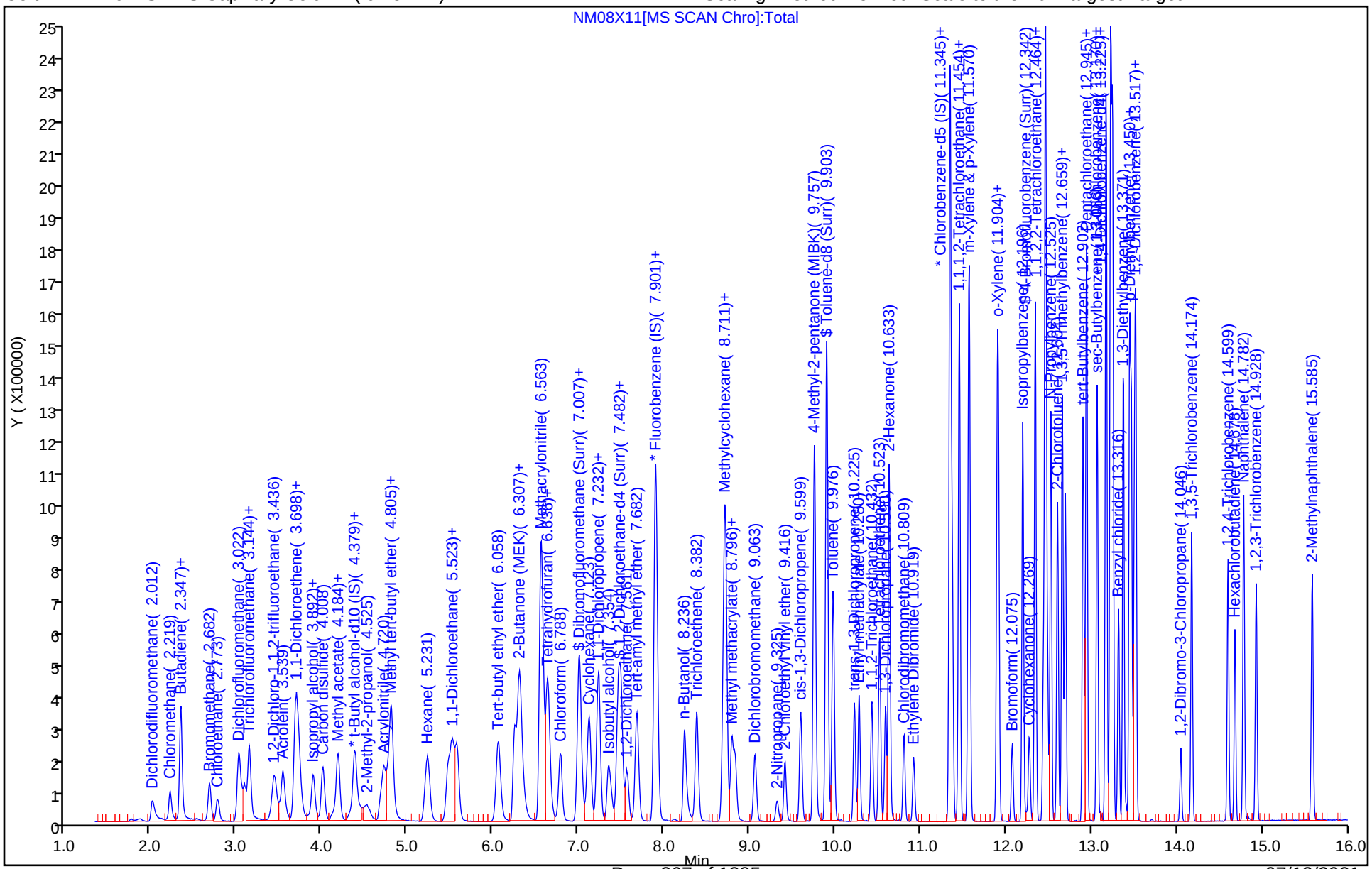
Report Date: 10-Mar-2021 09:09:59 Chrom Revision: 2.3 10-Mar-2021 00:59:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X11.D

Injection Date:	08-Mar-2021 18:47:30	Instrument ID:	7159	Operator ID:	kas02648
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144661/3 Calibration Date: 07/02/2021 09:07

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL02C01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3532	0.2859	0.1000	40.5	50.0	-19.1	20.0
Chloromethane	Ave	0.3157	0.3129	0.1000	49.6	50.0	-0.9	20.0
Vinyl chloride	Ave	0.3119	0.3248	0.1000	52.1	50.0	4.1	20.0
1,3-Butadiene	Ave	0.2845	0.3009		52.9	50.0	5.8	20.0
Bromomethane	Ave	0.2497	0.2508	0.1000	50.2	50.0	0.4	20.0
Chloroethane	Ave	0.2050	0.2115	0.1000	51.6	50.0	3.2	20.0
Dichlorofluoromethane	Ave	0.4940	0.4767		48.3	50.0	-3.5	20.0
Trichlorofluoromethane	Ave	0.5439	0.4066	0.1000	37.4	50.0	-25.2*	20.0
n-Pentane	Ave	0.4539	0.4450		49.0	50.0	-2.0	20.0
Ethanol	Ave	0.0551	0.0651		1480	1250	18.1	20.0
Freon 123a	Ave	0.3193	0.3069		48.0	50.0	-3.9	20.0
Acrolein	Ave	1.917	1.462		381	500	-23.7*	20.0
1,1-Dichloroethene	Ave	0.2552	0.2412	0.1000	47.3	50.0	-5.5	20.0
Acetone	Ave	0.7656	0.7554	0.1000	98.7	100	-1.3	20.0
Freon 113	Ave	0.2945	0.2495	0.1000	42.4	50.0	-15.3	20.0
2-Propanol	Ave	0.4861	0.3920		202	250	-19.4	20.0
Methyl iodide	Ave	0.5248	0.4474		42.6	50.0	-14.7	20.0
Carbon disulfide	Ave	0.7653	0.8187	0.1000	53.5	50.0	7.0	20.0
Methyl acetate	Ave	0.2839	0.2888	0.1000	50.9	50.0	1.7	20.0
Allyl chloride	Ave	0.4423	0.4077		46.1	50.0	-7.8	20.0
Methylene Chloride	Ave	0.2860	0.2890	0.1000	50.5	50.0	1.1	20.0
t-Butyl alcohol	Ave	1.097	0.8804		201	250	-19.8	20.0
Acrylonitrile	Ave	0.1406	0.1679		149	125	19.4	20.0
Methyl tertiary butyl ether	Ave	0.9057	0.8304	0.1000	45.8	50.0	-8.3	20.0
trans-1,2-Dichloroethene	Ave	0.2961	0.2811	0.1000	47.5	50.0	-5.1	20.0
n-Hexane	Ave	0.4318	0.4257		49.3	50.0	-1.4	20.0
1,1-Dichloroethane	Ave	0.4940	0.4868	0.2000	49.3	50.0	-1.4	20.0
di-Isopropyl ether	Ave	0.8729	0.8540		48.9	50.0	-2.2	20.0
2-Chloro-1,3-butadiene	Ave	0.4721	0.4090		43.3	50.0	-13.4	20.0
Ethyl t-butyl ether	Ave	0.8839	0.8251		46.7	50.0	-6.6	20.0
2-Butanone	Ave	0.1978	0.2110	0.1000	107	100	6.7	20.0
cis-1,2-Dichloroethene	Ave	0.3357	0.3135	0.1000	46.7	50.0	-6.6	20.0
2,2-Dichloropropane	Ave	0.4999	0.4046		40.5	50.0	-19.1	20.0
Propionitrile	Ave	1.230	1.271		258	250	3.4	20.0
Methacrylonitrile	Ave	0.1578	0.1767		140	125	12.0	20.0
Bromochloromethane	Ave	0.1835	0.1512		41.2	50.0	-17.6	20.0
Tetrahydrofuran	Ave	1.243	1.181		237	250	-5.0	20.0
Chloroform	Ave	0.5395	0.4804	0.2000	44.5	50.0	-11.0	20.0
1,1,1-Trichloroethane	Ave	0.5272	0.4210	0.1000	39.9	50.0	-20.1*	20.0
Cyclohexane	Ave	0.5123	0.5085	0.1000	49.6	50.0	-0.7	20.0
1,1-Dichloropropene	Ave	0.4167	0.3900		46.8	50.0	-6.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144661/3 Calibration Date: 07/02/2021 09:07

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL02C01.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
Carbon tetrachloride	Ave	0.4726	0.3577	0.1000	37.8	50.0	-24.3*	20.0
Isobutyl alcohol	Ave	0.3443	0.3201		581	625	-7.0	20.0
Benzene	Ave	1.190	1.181	0.5000	49.6	50.0	-0.7	20.0
1,2-Dichloroethane	Ave	0.4331	0.3533	0.1000	40.8	50.0	-18.4	20.0
t-Amyl methyl ether	Ave	0.9031	0.8584		47.5	50.0	-4.9	20.0
n-Heptane	Ave	0.4310	0.3823		44.3	50.0	-11.3	20.0
n-Butanol	Ave	0.2661	0.2925		687	625	9.9	20.0
Trichloroethene	Ave	0.3260	0.2969	0.2000	45.5	50.0	-8.9	20.0
Methylcyclohexane	Ave	0.6137	0.5671	0.1000	46.2	50.0	-7.6	20.0
1,2-Dichloropropane	Ave	0.2892	0.3007	0.1000	52.0	50.0	4.0	20.0
t-Amyl ethyl ether	Ave	0.4939	0.4740		48.0	50.0	-4.0	20.0
Methyl methacrylate	Ave	0.2682	0.2784		51.9	50.0	3.8	20.0
1,4-Dioxane	Ave	0.0534	0.0678	0.0050	793	625	26.9*	20.0
Dibromomethane	Ave	0.2012	0.1796		44.6	50.0	-10.8	20.0
Bromodichloromethane	Ave	0.4051	0.3543	0.2000	43.7	50.0	-12.5	20.0
2-Nitropropane	Ave	2.910	1.946		167	250	-33.1*	20.0
2-Chloroethyl vinyl ether	Ave	0.2130	0.2205		51.8	50.0	3.5	20.0
cis-1,3-Dichloropropene	Ave	0.4810	0.4823	0.2000	50.1	50.0	0.3	20.0
4-Methyl-2-pentanone	Ave	0.4153	0.4187	0.1000	101	100	0.8	20.0
Toluene	Ave	0.9789	1.018	0.4000	52.0	50.0	4.0	20.0
trans-1,3-Dichloropropene	Ave	0.5428	0.5642	0.1000	52.0	50.0	4.0	20.0
Ethyl methacrylate	Ave	0.5517	0.5966		54.1	50.0	8.2	20.0
1,1,2-Trichloroethane	Ave	0.3496	0.3523	0.1000	50.4	50.0	0.8	20.0
Tetrachloroethene	Ave	0.5034	0.4212	0.2000	41.8	50.0	-16.3	20.0
1,3-Dichloropropane	Ave	0.5629	0.5940		52.8	50.0	5.5	20.0
2-Hexanone	Ave	0.3803	0.4158	0.1000	109	100	9.3	20.0
Dibromochloromethane	Ave	0.4197	0.3815		45.4	50.0	-9.1	20.0
1,2-Dibromoethane	Ave	0.3865	0.3771	0.1000	48.8	50.0	-2.4	20.0
1-Chlorohexane	Ave	0.5910	0.5840		49.4	50.0	-1.2	20.0
Chlorobenzene	Ave	1.147	1.138	0.5000	49.6	50.0	-0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4272	0.3838		44.9	50.0	-10.1	20.0
Ethylbenzene	Ave	1.960	1.965	0.1000	50.2	50.0	0.3	20.0
m&p-Xylene	Ave	0.7927	0.7860	0.1000	99.1	100	-0.9	20.0
o-Xylene	Ave	0.7822	0.7734	0.3000	49.4	50.0	-1.1	20.0
Styrene	Ave	1.270	1.298	0.3000	51.1	50.0	2.2	20.0
Bromoform	Ave	0.3193	0.2736	0.1000	42.8	50.0	-14.3	20.0
Isopropylbenzene	Ave	2.096	1.999	0.1000	47.7	50.0	-4.6	20.0
Cyclohexanone	Ave	0.2215	0.2487		702	625	12.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8855	1.048	0.3000	59.2	50.0	18.4	20.0
Bromobenzene	Ave	0.9163	0.8284		45.2	50.0	-9.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3143	0.2921		116	125	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144661/3 Calibration Date: 07/02/2021 09:07

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL02C01.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
1,2,3-Trichloropropane	Ave	0.3141	0.3288		52.3	50.0	4.7	20.0
N-Propylbenzene	Ave	3.959	4.301		54.3	50.0	8.6	20.0
2-Chlorotoluene	Ave	0.8693	0.8537		49.1	50.0	-1.8	20.0
1,3,5-Trimethylbenzene	Ave	2.971	3.064		51.6	50.0	3.1	20.0
4-Chlorotoluene	Ave	0.8837	0.8773		49.6	50.0	-0.7	20.0
tert-Butylbenzene	Ave	0.6818	0.6677		49.0	50.0	-2.1	20.0
1,2,4-Trimethylbenzene	Ave	3.043	3.183		52.3	50.0	4.6	20.0
sec-Butylbenzene	Ave	3.689	3.777		51.2	50.0	2.4	20.0
1,3-Dichlorobenzene	Ave	1.731	1.655	0.6000	47.8	50.0	-4.4	20.0
p-Isopropyltoluene	Ave	3.319	3.297		49.7	50.0	-0.7	20.0
1,4-Dichlorobenzene	Ave	1.768	1.655	0.5000	46.8	50.0	-6.4	20.0
1,2,3-Trimethylbenzene	Ave	3.032	3.169		52.3	50.0	4.5	20.0
Benzyl chloride	Ave	2.013	2.357		58.6	50.0	17.1	20.0
1,3-Diethylbenzene	Ave	1.988	1.986		49.9	50.0	-0.1	20.0
1,4-Diethylbenzene	Ave	2.092	2.059		49.2	50.0	-1.6	20.0
n-Butylbenzene	Ave	1.546	1.616		52.3	50.0	4.5	20.0
1,2-Dichlorobenzene	Ave	1.654	1.571	0.4000	47.5	50.0	-5.0	20.0
1,2-Diethylbenzene	Ave	1.637	1.617		49.4	50.0	-1.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2313	0.2689	0.0500	58.1	50.0	16.3	20.0
1,3,5-Trichlorobenzene	Ave	1.211	1.031		42.6	50.0	-14.9	20.0
1,2,4-Trichlorobenzene	Ave	1.063	0.9152	0.2000	43.0	50.0	-13.9	20.0
Hexachlorobutadiene	Ave	0.4486	0.3373		37.6	50.0	-24.8*	20.0
Naphthalene	Ave	3.436	3.593		52.3	50.0	4.6	20.0
1,2,3-Trichlorobenzene	Ave	1.001	0.8531		42.6	50.0	-14.8	20.0
2-Methylnaphthalene	Ave	1.943	1.759		45.3	50.0	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2616	0.2381		45.5	50.0	-9.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0639	0.0644		50.4	50.0	0.8	20.0
Toluene-d8 (Surr)	Ave	1.243	1.329		53.4	50.0	6.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4954	0.4765		48.1	50.0	-3.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02C01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Jul-2021 09:07:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-003
Misc. Info.: CCVIS
Operator ID: lcp00895 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub19

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 02-Jul-2021 12:15:59 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: papel Date: 02-Jul-2021 09:44:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.013	2.013	0.000	99	271556	50.0	40.5	
6 Chloromethane	50	2.219	2.219	0.000	99	297218	50.0	49.6	
8 Vinyl chloride	62	2.341	2.341	0.000	98	308527	50.0	52.1	
9 Butadiene	39	2.353	2.353	0.000	90	285800	50.0	52.9	
10 Bromomethane	94	2.682	2.682	0.000	89	238243	50.0	50.2	
11 Chloroethane	64	2.785	2.785	0.000	99	200866	50.0	51.6	
12 Dichlorofluoromethane	67	3.023	3.023	0.000	97	452801	50.0	48.3	
13 Trichlorofluoromethane	101	3.083	3.083	0.000	97	386244	50.0	37.4	
15 Pentane	43	3.150	3.150	0.000	97	422654	50.0	49.0	
16 Ethanol	45	3.205	3.205	0.000	90	86906	1250.0	1476.5	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.442	3.442	0.000	91	291470	50.0	48.0	
18 Acrolein	56	3.540	3.540	0.000	100	780749	500.0	381.3	
20 1,1-Dichloroethene	96	3.686	3.686	0.000	97	229069	50.0	47.3	
21 Acetone	58	3.716	3.716	0.000	78	80673	100.0	98.7	
22 112TCTFE	101	3.722	3.722	0.000	93	237026	50.0	42.4	
23 Isopropyl alcohol	45	3.880	3.880	0.000	96	104667	250.0	201.6	
24 Iodomethane	142	3.892	3.892	0.000	97	424973	50.0	42.6	
25 Carbon disulfide	76	4.008	4.008	0.000	98	777643	50.0	53.5	
26 Methyl acetate	43	4.142	4.142	0.000	97	274295	50.0	50.9	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	93	387203	50.0	46.1	
* 29 t-Butyl alcohol-d10 (IS)	65	4.379	4.379	0.000	85	266998	250.0	250.0	M
28 Methylene Chloride	84	4.379	4.379	0.000	89	274467	50.0	50.5	
31 2-Methyl-2-propanol	59	4.495	4.495	0.000	100	235077	250.0	200.6	
32 Acrylonitrile	53	4.708	4.708	0.000	100	398669	125.0	149.2	
33 Methyl tert-butyl ether	73	4.781	4.781	0.000	94	788787	50.0	45.8	
34 trans-1,2-Dichloroethene	96	4.805	4.805	0.000	99	267023	50.0	47.5	
36 Hexane	57	5.231	5.231	0.000	91	404336	50.0	49.3	
37 1,1-Dichloroethane	63	5.462	5.462	0.000	96	462420	50.0	49.3	
39 Isopropyl ether	45	5.517	5.517	0.000	93	811126	50.0	48.9	
40 2-Chloro-1,3-butadiene	53	5.572	5.572	0.000	89	388456	50.0	43.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.052	6.052	0.000	97	783740	50.0	46.7	
43 2-Butanone (MEK)	43	6.247	6.247	0.000	99	400917	100.0	106.7	
44 cis-1,2-Dichloroethene	96	6.302	6.302	0.000	80	297813	50.0	46.7	
45 2,2-Dichloropropane	77	6.308	6.308	0.000	88	384288	50.0	40.5	
46 Propionitrile	54	6.332	6.332	0.000	99	339416	250.0	258.4	
47 Methacrylonitrile	67	6.557	6.557	0.000	90	419588	125.0	140.0	
48 Chlorobromomethane	128	6.636	6.636	0.000	63	143619	50.0	41.2	
49 Tetrahydrofuran	71	6.636	6.636	0.000	88	315246	250.0	237.4	
50 Chloroform	83	6.776	6.776	0.000	93	456342	50.0	44.5	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	93	226154	50.0	45.5	
52 1,1,1-Trichloroethane	97	7.013	7.013	0.000	98	399855	50.0	39.9	
54 Cyclohexane	56	7.117	7.117	0.000	88	483023	50.0	49.6	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	97	370474	50.0	46.8	
55 Carbon tetrachloride	117	7.226	7.226	0.000	94	339772	50.0	37.8	
58 Isobutyl alcohol	41	7.342	7.342	0.000	95	213677	625.0	581.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	93	61167	50.0	50.4	
60 Benzene	78	7.488	7.488	0.000	95	1121967	50.0	49.6	
61 1,2-Dichloroethane	62	7.555	7.555	0.000	97	335609	50.0	40.8	
62 Tert-amyl methyl ether	73	7.670	7.670	0.000	99	815317	50.0	47.5	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	949834	50.0	50.0	
65 n-Heptane	43	7.902	7.902	0.000	90	363091	50.0	44.3	
66 n-Butanol	56	8.230	8.230	0.000	86	195240	625.0	687.0	
67 Trichloroethene	95	8.376	8.376	0.000	98	282003	50.0	45.5	
68 Methylcyclohexane	83	8.692	8.692	0.000	94	538686	50.0	46.2	
70 1,2-Dichloropropane	63	8.711	8.711	0.000	71	285617	50.0	52.0	
69 2-ethoxy-2-methyl butane	87	8.717	8.717	0.000	93	450189	50.0	48.0	
71 Methyl methacrylate	69	8.784	8.784	0.000	90	264437	50.0	51.9	
72 1,4-Dioxane	88	8.790	8.790	0.000	33	45229	625.0	793.1	M
74 Dibromomethane	93	8.820	8.820	0.000	97	170562	50.0	44.6	
75 Dichlorobromomethane	83	9.057	9.057	0.000	99	336535	50.0	43.7	
77 2-Nitropropane	41	9.313	9.313	0.000	96	519631	250.0	167.2	
78 2-Chloroethyl vinyl ether	63	9.404	9.404	0.000	90	209396	50.0	51.8	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	458073	50.0	50.1	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	795448	100.0	100.8	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	962266	50.0	53.4	
82 Toluene	92	9.970	9.970	0.000	98	737127	50.0	52.0	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	408485	50.0	52.0	
85 Ethyl methacrylate	69	10.274	10.274	0.000	89	431975	50.0	54.1	
86 1,1,2-Trichloroethane	97	10.420	10.420	0.000	89	255028	50.0	50.4	
87 Tetrachloroethene	166	10.517	10.517	0.000	96	304974	50.0	41.8	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	87	430030	50.0	52.8	
89 2-Hexanone	43	10.627	10.627	0.000	95	602050	100.0	109.3	
90 Chlorodibromomethane	129	10.803	10.803	0.000	90	276191	50.0	45.4	
91 Ethylene Dibromide	107	10.913	10.913	0.000	99	273000	50.0	48.8	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	723989	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	94	422845	50.0	49.4	
95 Chlorobenzene	112	11.363	11.363	0.000	96	824226	50.0	49.6	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	95	277902	50.0	44.9	
97 Ethylbenzene	91	11.448	11.448	0.000	98	1422961	50.0	50.2	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	1138065	100.0	99.1	
99 o-Xylene	106	11.892	11.892	0.000	96	559946	50.0	49.4	
100 Styrene	104	11.905	11.905	0.000	95	940051	50.0	51.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Bromoform	173	12.069	12.069	0.000	97	198064	50.0	42.8	
102 Isopropylbenzene	105	12.190	12.190	0.000	95	1447032	50.0	47.7	
103 Cyclohexanone	55	12.263	12.263	0.000	90	165999	625.0	701.8	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	345001	50.0	48.1	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	412050	50.0	59.2	
106 Bromobenzene	156	12.458	12.458	0.000	95	325577	50.0	45.2	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	85	286967	125.0	116.2	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	82	129218	50.0	52.3	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	1690467	50.0	54.3	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	335538	50.0	49.1	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	1204177	50.0	51.6	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	344781	50.0	49.6	
113 tert-Butylbenzene	134	12.896	12.896	0.000	93	262417	50.0	49.0	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	96	1250871	50.0	52.3	
116 sec-Butylbenzene	105	13.060	13.060	0.000	94	1484356	50.0	51.2	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	650374	50.0	47.8	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	1295667	50.0	49.7	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.219	0.000	94	393017	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	94	650547	50.0	46.8	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	1245598	50.0	52.3	
122 Benzyl chloride	91	13.310	13.310	0.000	98	926402	50.0	58.6	
123 1,3-Diethylbenzene	119	13.371	13.371	0.000	96	780383	50.0	49.9	
124 p-Diethylbenzene	119	13.444	13.444	0.000	95	809201	50.0	49.2	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	635152	50.0	52.3	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	617548	50.0	47.5	
127 o-diethylbenzene	119	13.511	13.511	0.000	95	635554	50.0	49.4	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	88	105669	50.0	58.1	
130 1,3,5-Trichlorobenzene	180	14.168	14.168	0.000	98	405224	50.0	42.6	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	359670	50.0	43.0	
132 Hexachlorobutadiene	225	14.673	14.673	0.000	98	132583	50.0	37.6	
133 Naphthalene	128	14.776	14.776	0.000	97	1412046	50.0	52.3	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	335282	50.0	42.6	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	691488	50.0	45.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#3_00007	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00007	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#1_00007	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00025	Amount Added:	2.50	Units: uL	
MSV_V_ETOH_00012	Amount Added:	10.00	Units: uL	
MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_HP11_ISSS_00007	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 02-Jul-2021 12:16:00 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02C01.D

Injection Date: 02-Jul-2021 09:07:30 Instrument ID: 7159 Operator ID: lcp00895

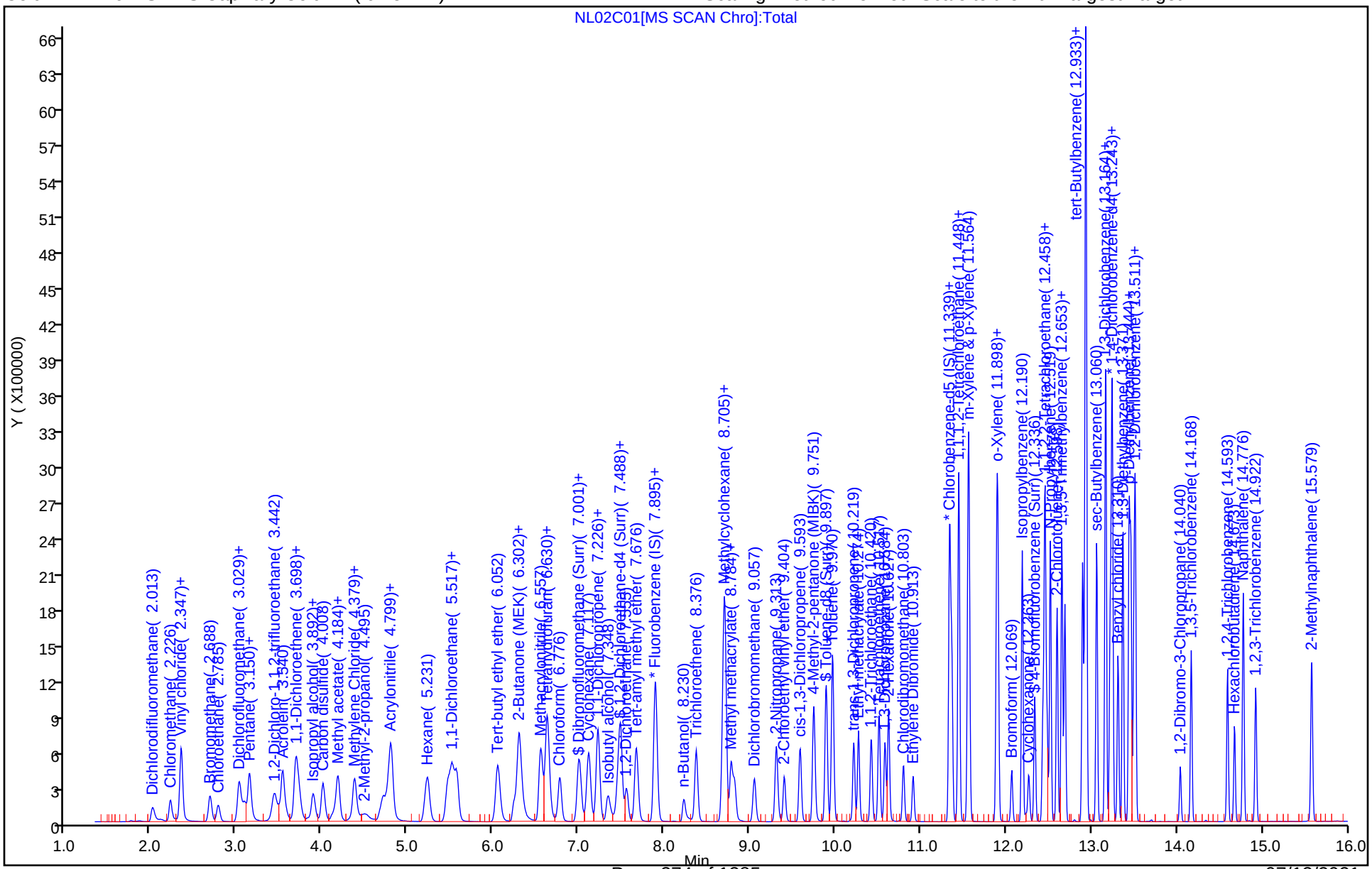
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

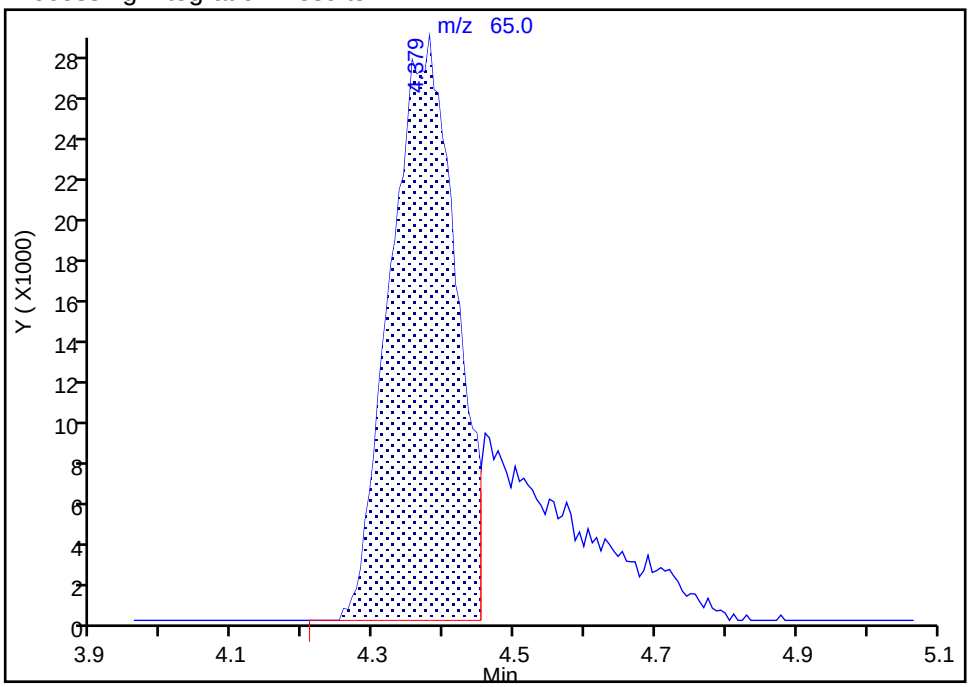
Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02C01.D
Injection Date: 02-Jul-2021 09:07:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

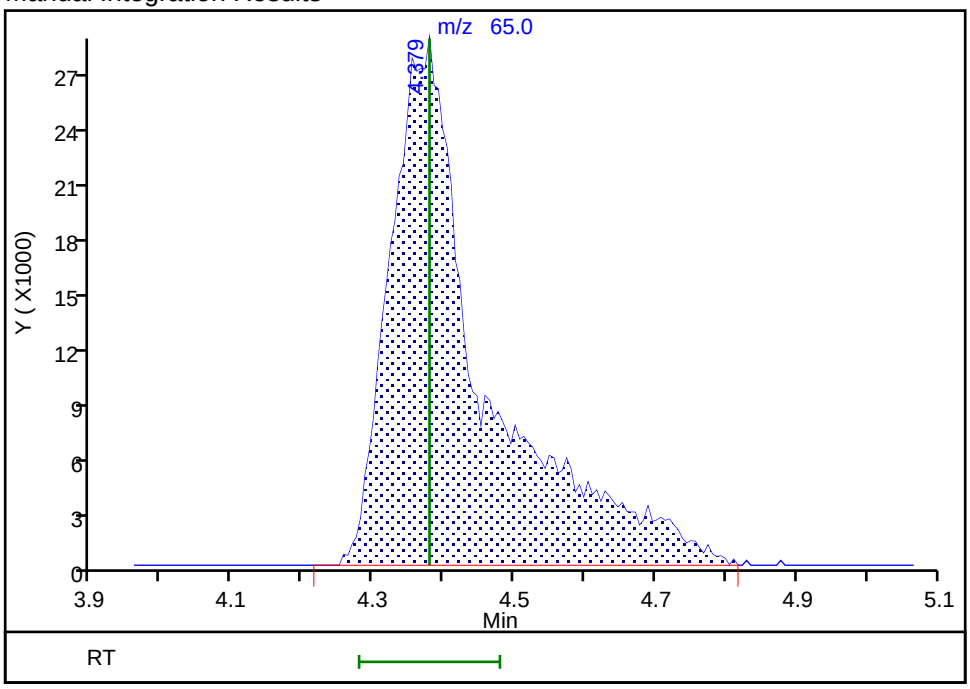
Processing Integration Results

RT: 4.38
Area: 183934
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.38
Area: 266998
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 02-Jul-2021 09:39:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

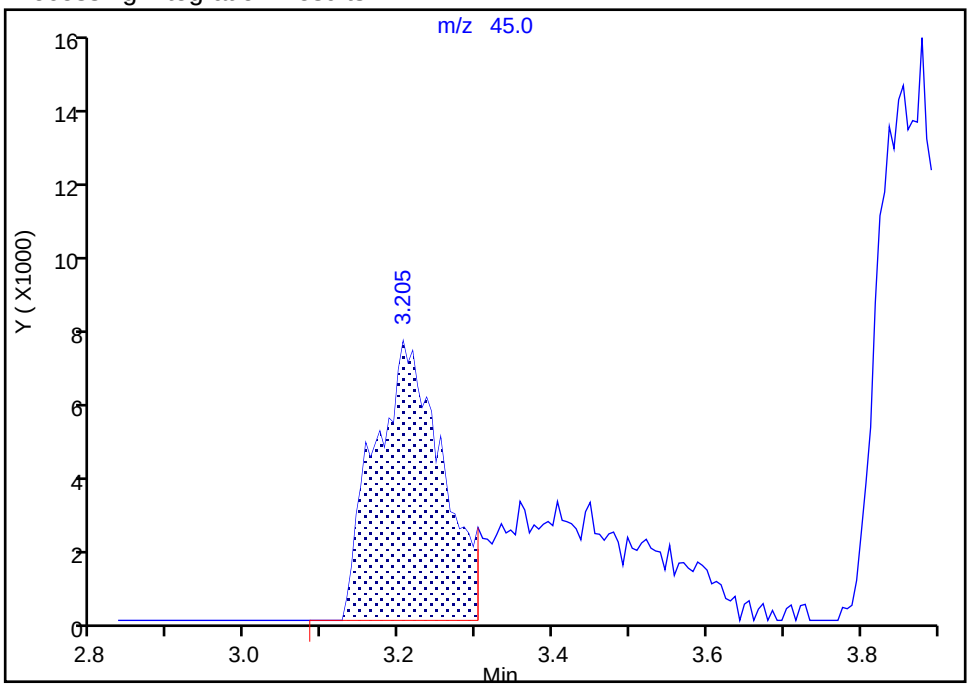
Data File:	\\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02C01.D				
Injection Date:	02-Jul-2021 09:07:30	Instrument ID:	7159		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Ethanol, CAS: 64-17-5

Signal: 1

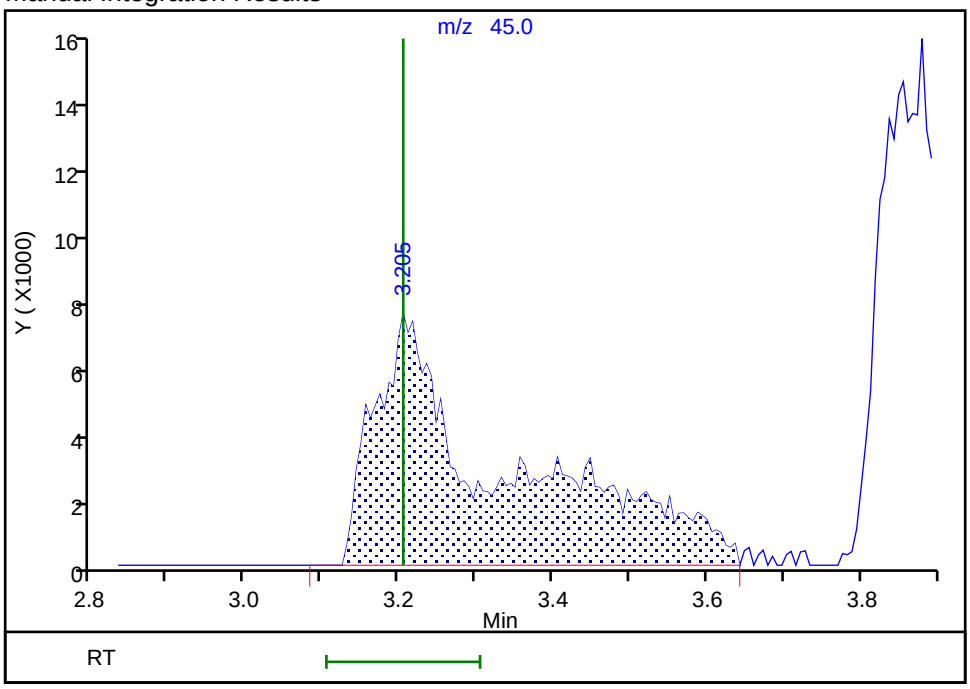
Processing Integration Results

RT: 3.21
Area: 45838
Amount: 1130.4383
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 86906
Amount: 1476.4712
Amount Units: ug/l



Reviewer: papel, 02-Jul-2021 09:39:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

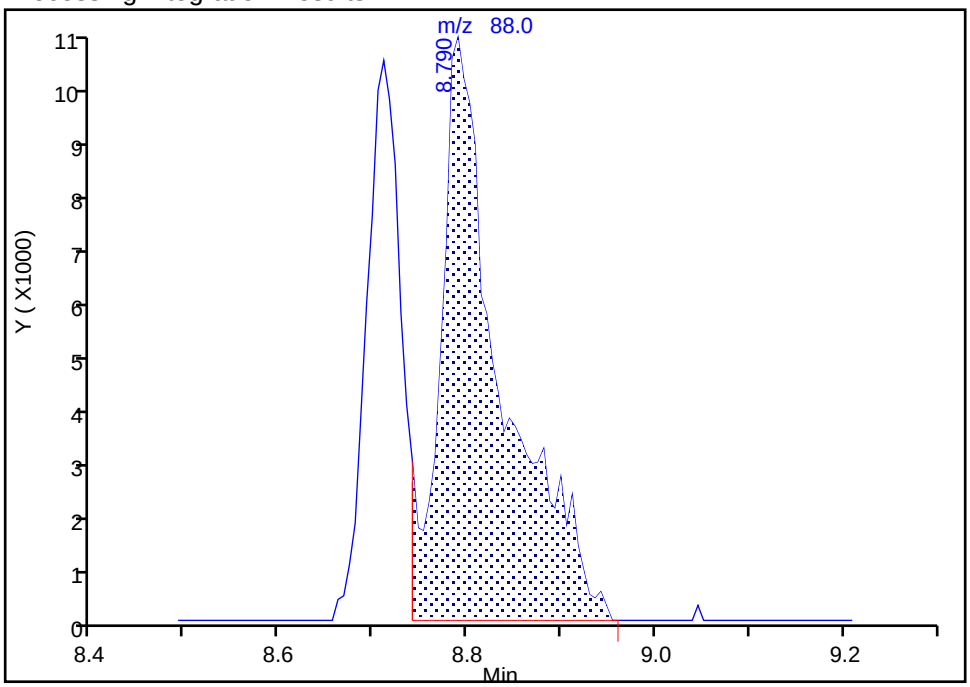
Data File:	\\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02C01.D				
Injection Date:	02-Jul-2021 09:07:30	Instrument ID:	7159		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

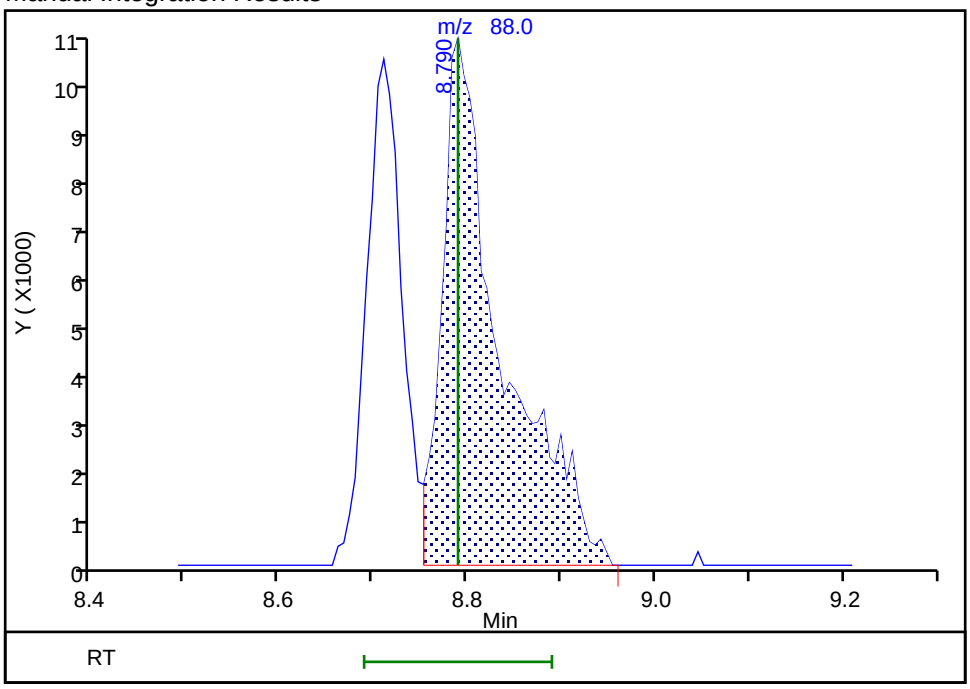
Processing Integration Results

RT: 8.79
Area: 46851
Amount: 821.5383
Amount Units: ug/l



Manual Integration Results

RT: 8.79
Area: 45229
Amount: 793.0963
Amount Units: ug/l



Reviewer: papel, 02-Jul-2021 09:40:07
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145203/3 Calibration Date: 07/06/2021 09:01

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL06C01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3532	0.3284	0.1000	46.5	50.0	-7.0	20.0
Chloromethane	Ave	0.3157	0.3322	0.1000	52.6	50.0	5.2	20.0
Vinyl chloride	Ave	0.3119	0.3504	0.1000	56.2	50.0	12.3	20.0
1,3-Butadiene	Ave	0.2845	0.3649		64.1	50.0	28.3*	20.0
Bromomethane	Ave	0.2497	0.2629	0.1000	52.6	50.0	5.2	20.0
Chloroethane	Ave	0.2050	0.2301	0.1000	56.1	50.0	12.2	20.0
Dichlorofluoromethane	Ave	0.4940	0.4938		50.0	50.0	-0.0	20.0
Trichlorofluoromethane	Ave	0.5439	0.4612	0.1000	42.4	50.0	-15.2	20.0
n-Pentane	Ave	0.4539	0.5254		57.9	50.0	15.8	20.0
Ethanol	Ave	0.0551	0.0768		1740	1250	39.4*	20.0
Freon 123a	Ave	0.3193	0.3430		53.7	50.0	7.4	20.0
Acrolein	Ave	1.917	1.639		427	500	-14.5	20.0
1,1-Dichloroethene	Ave	0.2552	0.2727	0.1000	53.4	50.0	6.8	20.0
Acetone	Ave	0.7656	0.8593	0.1000	112	100	12.2	20.0
Freon 113	Ave	0.2945	0.2847	0.1000	48.3	50.0	-3.3	20.0
2-Propanol	Ave	0.4861	0.4780		246	250	-1.7	20.0
Methyl iodide	Ave	0.5248	0.4697		44.8	50.0	-10.5	20.0
Carbon disulfide	Ave	0.7653	0.9156	0.1000	59.8	50.0	19.7	20.0
Methyl acetate	Ave	0.2839	0.2893	0.1000	50.9	50.0	1.9	20.0
Allyl chloride	Ave	0.4423	0.4341		49.1	50.0	-1.9	20.0
Methylene Chloride	Ave	0.2860	0.3017	0.1000	52.7	50.0	5.5	20.0
t-Butyl alcohol	Ave	1.097	1.017		232	250	-7.3	20.0
Acrylonitrile	Ave	0.1406	0.1720		153	125	22.3*	20.0
Methyl tertiary butyl ether	Ave	0.9057	0.8654	0.1000	47.8	50.0	-4.4	20.0
trans-1,2-Dichloroethene	Ave	0.2961	0.3043	0.1000	51.4	50.0	2.8	20.0
n-Hexane	Ave	0.4318	0.4954		57.4	50.0	14.7	20.0
1,1-Dichloroethane	Ave	0.4940	0.5150	0.2000	52.1	50.0	4.3	20.0
di-Isopropyl ether	Ave	0.8729	0.9029		51.7	50.0	3.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4721	0.4407		46.7	50.0	-6.7	20.0
Ethyl t-butyl ether	Ave	0.8839	0.8591		48.6	50.0	-2.8	20.0
2-Butanone	Ave	0.1978	0.2286	0.1000	116	100	15.6	20.0
cis-1,2-Dichloroethene	Ave	0.3357	0.3293	0.1000	49.0	50.0	-1.9	20.0
2,2-Dichloropropane	Ave	0.4999	0.4317		43.2	50.0	-13.6	20.0
Propionitrile	Ave	1.230	1.337		272	250	8.7	20.0
Methacrylonitrile	Ave	0.1578	0.1824		144	125	15.6	20.0
Bromochloromethane	Ave	0.1835	0.1585		43.2	50.0	-13.6	20.0
Tetrahydrofuran	Ave	1.243	1.259		253	250	1.3	20.0
Chloroform	Ave	0.5395	0.5026	0.2000	46.6	50.0	-6.9	20.0
1,1,1-Trichloroethane	Ave	0.5272	0.4424	0.1000	42.0	50.0	-16.1	20.0
Cyclohexane	Ave	0.5123	0.5672	0.1000	55.4	50.0	10.7	20.0
1,1-Dichloropropene	Ave	0.4167	0.4184		50.2	50.0	0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145203/3 Calibration Date: 07/06/2021 09:01

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL06C01.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
Carbon tetrachloride	Ave	0.4726	0.3810	0.1000	40.3	50.0	-19.4	20.0
Isobutyl alcohol	Ave	0.3443	0.3396		617	625	-1.4	20.0
Benzene	Ave	1.190	1.251	0.5000	52.6	50.0	5.1	20.0
1,2-Dichloroethane	Ave	0.4331	0.3639	0.1000	42.0	50.0	-16.0	20.0
t-Amyl methyl ether	Ave	0.9031	0.8883		49.2	50.0	-1.6	20.0
n-Heptane	Ave	0.4310	0.4279		49.6	50.0	-0.7	20.0
n-Butanol	Ave	0.2661	0.3219		756	625	21.0*	20.0
Trichloroethene	Ave	0.3260	0.3102	0.2000	47.6	50.0	-4.8	20.0
Methylcyclohexane	Ave	0.6137	0.6375	0.1000	51.9	50.0	3.9	20.0
1,2-Dichloropropane	Ave	0.2892	0.3169	0.1000	54.8	50.0	9.6	20.0
t-Amyl ethyl ether	Ave	0.4939	0.4838		49.0	50.0	-2.0	20.0
Methyl methacrylate	Ave	0.2682	0.2884		53.8	50.0	7.5	20.0
1,4-Dioxane	Ave	0.0534	0.0781	0.0050	914	625	46.3*	20.0
Dibromomethane	Ave	0.2012	0.1802		44.8	50.0	-10.5	20.0
Bromodichloromethane	Ave	0.4051	0.3624	0.2000	44.7	50.0	-10.6	20.0
2-Nitropropane	Ave	2.910	2.026		174	250	-30.4*	20.0
2-Chloroethyl vinyl ether	Ave	0.2130	0.2417		56.7	50.0	13.5	20.0
cis-1,3-Dichloropropene	Ave	0.4810	0.5030	0.2000	52.3	50.0	4.6	20.0
4-Methyl-2-pentanone	Ave	0.4153	0.4482	0.1000	108	100	7.9	20.0
Toluene	Ave	0.9789	1.067	0.4000	54.5	50.0	9.0	20.0
trans-1,3-Dichloropropene	Ave	0.5428	0.5824	0.1000	53.7	50.0	7.3	20.0
Ethyl methacrylate	Ave	0.5517	0.6275		56.9	50.0	13.8	20.0
1,1,2-Trichloroethane	Ave	0.3496	0.3671	0.1000	52.5	50.0	5.0	20.0
Tetrachloroethene	Ave	0.5034	0.4279	0.2000	42.5	50.0	-15.0	20.0
1,3-Dichloropropane	Ave	0.5629	0.6169		54.8	50.0	9.6	20.0
2-Hexanone	Ave	0.3803	0.4507	0.1000	119	100	18.5	20.0
Dibromochloromethane	Ave	0.4197	0.3958		47.2	50.0	-5.7	20.0
1,2-Dibromoethane	Ave	0.3865	0.3915	0.1000	50.6	50.0	1.3	20.0
1-Chlorohexane	Ave	0.5910	0.6295		53.3	50.0	6.5	20.0
Chlorobenzene	Ave	1.147	1.178	0.5000	51.4	50.0	2.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4272	0.3919		45.9	50.0	-8.3	20.0
Ethylbenzene	Ave	1.960	2.064	0.1000	52.7	50.0	5.4	20.0
m&p-Xylene	Ave	0.7927	0.8289	0.1000	105	100	4.6	20.0
o-Xylene	Ave	0.7822	0.8076	0.3000	51.6	50.0	3.2	20.0
Styrene	Ave	1.270	1.344	0.3000	52.9	50.0	5.8	20.0
Bromoform	Ave	0.3193	0.2718	0.1000	42.6	50.0	-14.9	20.0
Isopropylbenzene	Ave	2.096	2.098	0.1000	50.0	50.0	0.0	20.0
Cyclohexanone	Ave	0.2215	0.2712		765	625	22.5*	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8855	1.107	0.3000	62.5	50.0	25.0*	20.0
Bromobenzene	Ave	0.9163	0.8524		46.5	50.0	-7.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3143	0.2839		113	125	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145203/3 Calibration Date: 07/06/2021 09:01

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL06C01.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
1,2,3-Trichloropropane	Ave	0.3141	0.3497		55.7	50.0	11.3	20.0
N-Propylbenzene	Ave	3.959	4.568		57.7	50.0	15.4	20.0
2-Chlorotoluene	Ave	0.8693	0.9067		52.2	50.0	4.3	20.0
1,3,5-Trimethylbenzene	Ave	2.971	3.240		54.5	50.0	9.1	20.0
4-Chlorotoluene	Ave	0.8837	0.9411		53.2	50.0	6.5	20.0
tert-Butylbenzene	Ave	0.6818	0.6939		50.9	50.0	1.8	20.0
1,2,4-Trimethylbenzene	Ave	3.043	3.307		54.3	50.0	8.7	20.0
sec-Butylbenzene	Ave	3.689	4.031		54.6	50.0	9.3	20.0
1,3-Dichlorobenzene	Ave	1.731	1.708	0.6000	49.3	50.0	-1.4	20.0
p-Isopropyltoluene	Ave	3.319	3.481		52.4	50.0	4.9	20.0
1,4-Dichlorobenzene	Ave	1.768	1.741	0.5000	49.2	50.0	-1.5	20.0
1,2,3-Trimethylbenzene	Ave	3.032	3.310		54.6	50.0	9.2	20.0
Benzyl chloride	Ave	2.013	2.452		60.9	50.0	21.8*	20.0
1,3-Diethylbenzene	Ave	1.988	2.101		52.9	50.0	5.7	20.0
1,4-Diethylbenzene	Ave	2.092	2.193		52.4	50.0	4.8	20.0
n-Butylbenzene	Ave	1.546	1.732		56.0	50.0	12.0	20.0
1,2-Dichlorobenzene	Ave	1.654	1.614	0.4000	48.8	50.0	-2.4	20.0
1,2-Diethylbenzene	Ave	1.637	1.716		52.4	50.0	4.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2313	0.2692	0.0500	58.2	50.0	16.4	20.0
1,3,5-Trichlorobenzene	Ave	1.211	1.071		44.2	50.0	-11.6	20.0
1,2,4-Trichlorobenzene	Ave	1.063	0.9609	0.2000	45.2	50.0	-9.6	20.0
Hexachlorobutadiene	Ave	0.4486	0.3639		40.6	50.0	-18.9	20.0
Naphthalene	Ave	3.436	3.693		53.7	50.0	7.5	20.0
1,2,3-Trichlorobenzene	Ave	1.001	0.8784		43.9	50.0	-12.2	20.0
2-Methylnaphthalene	Ave	1.943	1.840		47.3	50.0	-5.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2616	0.2356		45.0	50.0	-9.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0639	0.0637		49.9	50.0	-0.3	20.0
Toluene-d8 (Surr)	Ave	1.243	1.338		53.8	50.0	7.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4954	0.4719		47.6	50.0	-4.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06C01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2021 09:01:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-003
Misc. Info.: CCVIS
Operator ID: lcp00895 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub19

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 11:12:14 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: papel Date: 06-Jul-2021 09:38:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.019	2.019	0.000	99	329926	50.0	46.5	
6 Chloromethane	50	2.225	2.225	0.000	99	333685	50.0	52.6	
8 Vinyl chloride	62	2.341	2.341	0.000	98	351977	50.0	56.2	
9 Butadiene	39	2.353	2.353	0.000	90	366581	50.0	64.1	
10 Bromomethane	94	2.694	2.694	0.000	90	264039	50.0	52.6	
11 Chloroethane	64	2.785	2.785	0.000	99	231118	50.0	56.1	
12 Dichlorofluoromethane	67	3.028	3.028	0.000	97	496020	50.0	50.0	
13 Trichlorofluoromethane	101	3.089	3.089	0.000	96	463248	50.0	42.4	
15 Pentane	43	3.150	3.150	0.000	96	527795	50.0	57.9	
16 Ethanol	45	3.223	3.223	0.000	86	104580	1250.0	1742.0	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.448	3.448	0.000	91	344527	50.0	53.7	
18 Acrolein	56	3.539	3.539	0.000	100	892650	500.0	427.4	
20 1,1-Dichloroethene	96	3.692	3.692	0.000	97	273884	50.0	53.4	
21 Acetone	58	3.716	3.716	0.000	80	93608	100.0	112.2	
22 112TCTFE	101	3.722	3.722	0.000	93	286012	50.0	48.3	
23 Isopropyl alcohol	45	3.874	3.874	0.000	98	130161	250.0	245.8	
24 Iodomethane	142	3.898	3.898	0.000	97	471839	50.0	44.8	
25 Carbon disulfide	76	4.008	4.008	0.000	98	919761	50.0	59.8	
26 Methyl acetate	43	4.154	4.154	0.000	97	290597	50.0	50.9	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	93	436066	50.0	49.1	
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.373	0.000	90	272328	250.0	250.0	
28 Methylene Chloride	84	4.385	4.385	0.000	90	303045	50.0	52.7	
31 2-Methyl-2-propanol	59	4.501	4.501	0.000	99	276974	250.0	231.7	
32 Acrylonitrile	53	4.714	4.714	0.000	100	432011	125.0	152.9	
33 Methyl tert-butyl ether	73	4.787	4.787	0.000	94	869314	50.0	47.8	
34 trans-1,2-Dichloroethene	96	4.805	4.805	0.000	99	305672	50.0	51.4	
36 Hexane	57	5.231	5.231	0.000	90	497657	50.0	57.4	
37 1,1-Dichloroethane	63	5.468	5.468	0.000	96	517334	50.0	52.1	
39 Isopropyl ether	45	5.517	5.517	0.000	94	907021	50.0	51.7	
40 2-Chloro-1,3-butadiene	53	5.577	5.577	0.000	89	442686	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.052	6.052	0.000	97	863013	50.0	48.6	
43 2-Butanone (MEK)	43	6.247	6.247	0.000	99	459194	100.0	115.6	
44 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	81	330766	50.0	49.0	
45 2,2-Dichloropropane	77	6.320	6.320	0.000	87	433640	50.0	43.2	
46 Propionitrile	54	6.332	6.332	0.000	99	364033	250.0	271.7	
47 Methacrylonitrile	67	6.557	6.557	0.000	90	457963	125.0	144.5	
48 Chlorobromomethane	128	6.636	6.636	0.000	64	159236	50.0	43.2	
49 Tetrahydrofuran	71	6.636	6.636	0.000	89	342882	250.0	253.1	
50 Chloroform	83	6.782	6.782	0.000	93	504845	50.0	46.6	
$ 51 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	94	236666	50.0	45.0	
52 1,1,1-Trichloroethane	97	7.019	7.019	0.000	98	444363	50.0	42.0	
54 Cyclohexane	56	7.123	7.123	0.000	88	569807	50.0	55.4	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	97	420243	50.0	50.2	
55 Carbon tetrachloride	117	7.226	7.226	0.000	87	382735	50.0	40.3	
58 Isobutyl alcohol	41	7.342	7.342	0.000	96	231222	625.0	616.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	64006	50.0	49.9	
60 Benzene	78	7.494	7.494	0.000	95	1256253	50.0	52.6	
61 1,2-Dichloroethane	62	7.561	7.561	0.000	97	365504	50.0	42.0	
62 Tert-amyl methyl ether	73	7.676	7.676	0.000	99	892325	50.0	49.2	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	1004518	50.0	50.0	
65 n-Heptane	43	7.901	7.901	0.000	90	429812	50.0	49.6	
66 n-Butanol	56	8.230	8.230	0.000	86	219181	625.0	756.1	
67 Trichloroethene	95	8.376	8.376	0.000	98	311645	50.0	47.6	
68 Methylcyclohexane	83	8.692	8.692	0.000	93	640344	50.0	51.9	
70 1,2-Dichloropropane	63	8.710	8.710	0.000	81	318319	50.0	54.8	
69 2-ethoxy-2-methyl butane	87	8.710	8.710	0.000	91	486000	50.0	49.0	
71 Methyl methacrylate	69	8.783	8.783	0.000	90	289751	50.0	53.8	
72 1,4-Dioxane	88	8.790	8.790	0.000	33	53177	625.0	914.2	M
74 Dibromomethane	93	8.826	8.826	0.000	98	181024	50.0	44.8	
75 Dichlorobromomethane	83	9.057	9.057	0.000	99	364014	50.0	44.7	
77 2-Nitropropane	41	9.313	9.313	0.000	97	551625	250.0	174.0	
78 2-Chloroethyl vinyl ether	63	9.404	9.404	0.000	92	242793	50.0	56.7	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	505260	50.0	52.3	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	900414	100.0	107.9	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1015893	50.0	53.8	
82 Toluene	92	9.970	9.970	0.000	98	810091	50.0	54.5	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	442232	50.0	53.7	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	476505	50.0	56.9	
86 1,1,2-Trichloroethane	97	10.426	10.426	0.000	90	278715	50.0	52.5	
87 Tetrachloroethene	166	10.517	10.517	0.000	96	324918	50.0	42.5	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	89	468437	50.0	54.8	
89 2-Hexanone	43	10.627	10.627	0.000	95	684391	100.0	118.5	
90 Chlorodibromomethane	129	10.797	10.797	0.000	91	300563	50.0	47.2	
91 Ethylene Dibromide	107	10.913	10.913	0.000	98	297254	50.0	50.6	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	759289	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	95	477985	50.0	53.3	
95 Chlorobenzene	112	11.363	11.363	0.000	96	894580	50.0	51.4	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	97	297578	50.0	45.9	
97 Ethylbenzene	91	11.448	11.448	0.000	98	1567460	50.0	52.7	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	1258755	100.0	104.6	
99 o-Xylene	106	11.892	11.892	0.000	96	613205	50.0	51.6	
100 Styrene	104	11.904	11.904	0.000	95	1020723	50.0	52.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Bromoform	173	12.069	12.069	0.000	96	206352	50.0	42.6	
102 Isopropylbenzene	105	12.190	12.190	0.000	95	1592825	50.0	50.0	
103 Cyclohexanone	55	12.269	12.269	0.000	90	184657	625.0	765.4	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	358283	50.0	47.6	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	450998	50.0	62.5	
106 Bromobenzene	156	12.458	12.458	0.000	97	347254	50.0	46.5	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	91	289180	125.0	112.9	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	82	142474	50.0	55.7	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	1861001	50.0	57.7	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	369394	50.0	52.2	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	1319901	50.0	54.5	
112 4-Chlorotoluene	126	12.689	12.689	0.000	96	383400	50.0	53.2	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	282676	50.0	50.9	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	97	1347227	50.0	54.3	
116 sec-Butylbenzene	105	13.060	13.060	0.000	93	1642349	50.0	54.6	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	695636	50.0	49.3	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	1418146	50.0	52.4	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	407391	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	94	709194	50.0	49.2	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	1348391	50.0	54.6	
122 Benzyl chloride	91	13.310	13.310	0.000	98	998999	50.0	60.9	
123 1,3-Diethylbenzene	119	13.364	13.364	0.000	95	856050	50.0	52.9	
124 p-Diethylbenzene	119	13.443	13.443	0.000	95	893504	50.0	52.4	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	705736	50.0	56.0	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	657515	50.0	48.8	
127 o-diethylbenzene	119	13.510	13.510	0.000	95	699241	50.0	52.4	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	88	109665	50.0	58.2	
130 1,3,5-Trichlorobenzene	180	14.167	14.167	0.000	98	436114	50.0	44.2	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	95	391479	50.0	45.2	
132 Hexachlorobutadiene	225	14.672	14.672	0.000	98	148255	50.0	40.6	
133 Naphthalene	128	14.776	14.776	0.000	97	1504328	50.0	53.7	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	357839	50.0	43.9	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	749464	50.0	47.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#3_00008	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00008	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#1_00008	Amount Added: 5.00	Units: uL	
MSV_V_ETOH_00012	Amount Added: 10.00	Units: uL	
MSV_VCYC_00006	Amount Added: 10.00	Units: uL	
MSV_CCV_GASES_00031	Amount Added: 2.50	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 06-Jul-2021 11:12:15 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06C01.D

Injection Date: 06-Jul-2021 09:01:30 Instrument ID: 7159 Operator ID: lcp00895

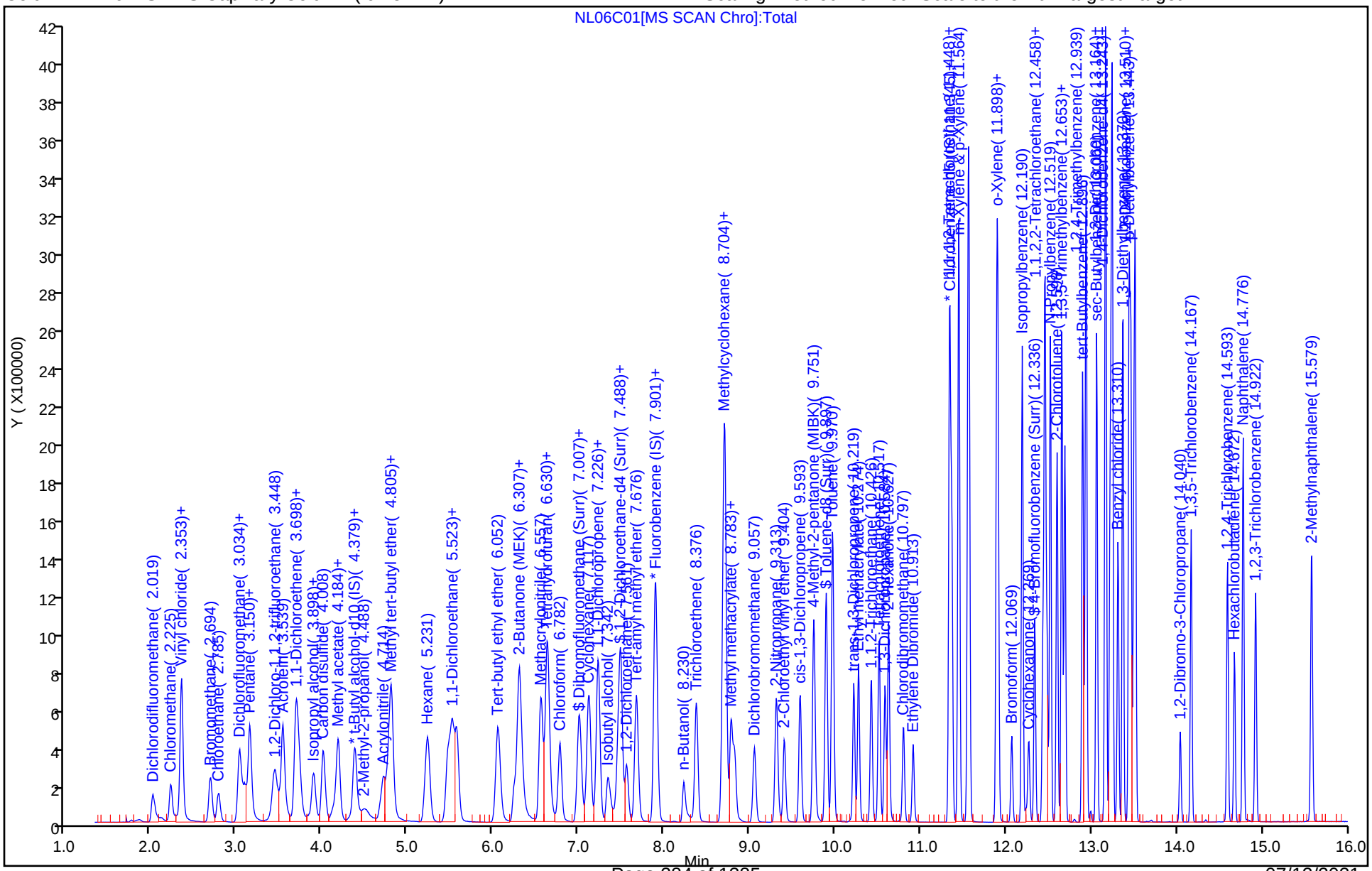
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

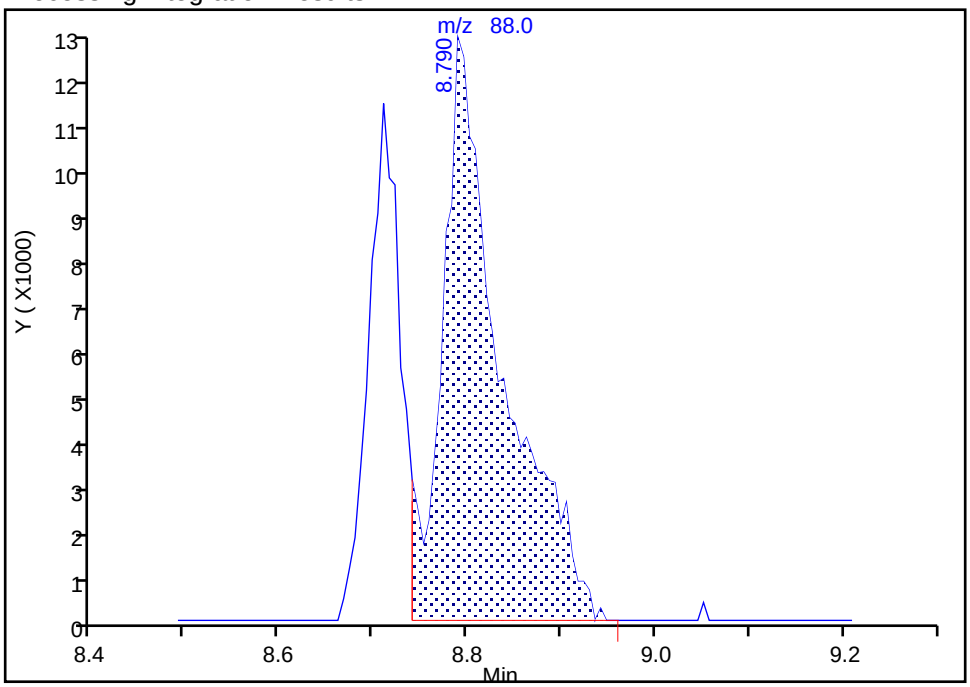
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Injection Date: 06-Jul-2021 09:01:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

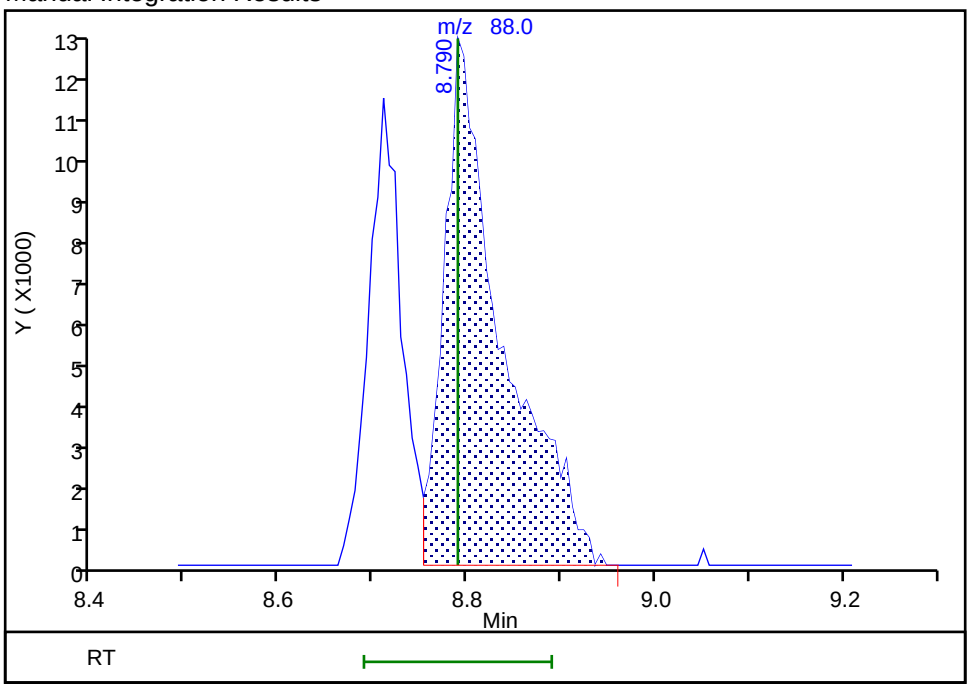
Processing Integration Results

RT: 8.79
Area: 55118
Amount: 947.5848
Amount Units: ug/l



Manual Integration Results

RT: 8.79
Area: 53177
Amount: 914.2153
Amount Units: ug/l



Reviewer: papel, 06-Jul-2021 09:44:36
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145456/3 Calibration Date: 07/06/2021 20:49

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL06C35.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3532	0.2903	0.1000	41.1	50.0	-17.8	20.0
Chloromethane	Ave	0.3157	0.3073	0.1000	48.7	50.0	-2.7	20.0
Vinyl chloride	Ave	0.3119	0.3122	0.1000	50.0	50.0	0.0	20.0
1,3-Butadiene	Ave	0.2845	0.3036		53.4	50.0	6.7	20.0
Bromomethane	Ave	0.2497	0.2547	0.1000	51.0	50.0	2.0	20.0
Chloroethane	Ave	0.2050	0.2183	0.1000	53.2	50.0	6.5	20.0
Dichlorofluoromethane	Ave	0.4940	0.4816		48.7	50.0	-2.5	20.0
Trichlorofluoromethane	Ave	0.5439	0.4254	0.1000	39.1	50.0	-21.8*	20.0
n-Pentane	Ave	0.4539	0.4578		50.4	50.0	0.9	20.0
Ethanol	Ave	0.0551	0.0698		1580	1250	26.7*	20.0
Freon 123a	Ave	0.3193	0.3198		50.1	50.0	0.1	20.0
Acrolein	Ave	1.917	1.725		450	500	-10.0	20.0
1,1-Dichloroethene	Ave	0.2552	0.2435	0.1000	47.7	50.0	-4.6	20.0
Acetone	Ave	0.7656	0.7954	0.1000	104	100	3.9	20.0
Freon 113	Ave	0.2945	0.2571	0.1000	43.7	50.0	-12.7	20.0
2-Propanol	Ave	0.4861	0.4221		217	250	-13.2	20.0
Methyl iodide	Ave	0.5248	0.4601		43.8	50.0	-12.3	20.0
Carbon disulfide	Ave	0.7653	0.8217	0.1000	53.7	50.0	7.4	20.0
Methyl acetate	Ave	0.2839	0.3036	0.1000	53.5	50.0	6.9	20.0
Allyl chloride	Ave	0.4423	0.3883		43.9	50.0	-12.2	20.0
Methylene Chloride	Ave	0.2860	0.3012	0.1000	52.7	50.0	5.3	20.0
t-Butyl alcohol	Ave	1.097	0.8825		201	250	-19.6	20.0
Acrylonitrile	Ave	0.1406	0.1746		155	125	24.2*	20.0
Methyl tertiary butyl ether	Ave	0.9057	0.8851	0.1000	48.9	50.0	-2.3	20.0
trans-1,2-Dichloroethene	Ave	0.2961	0.2808	0.1000	47.4	50.0	-5.2	20.0
n-Hexane	Ave	0.4318	0.4304		49.8	50.0	-0.3	20.0
1,1-Dichloroethane	Ave	0.4940	0.4874	0.2000	49.3	50.0	-1.3	20.0
di-Isopropyl ether	Ave	0.8729	0.8787		50.3	50.0	0.7	20.0
2-Chloro-1,3-butadiene	Ave	0.4721	0.3979		42.1	50.0	-15.7	20.0
Ethyl t-butyl ether	Ave	0.8839	0.8677		49.1	50.0	-1.8	20.0
2-Butanone	Ave	0.1978	0.2306	0.1000	117	100	16.6	20.0
cis-1,2-Dichloroethene	Ave	0.3357	0.3148	0.1000	46.9	50.0	-6.2	20.0
2,2-Dichloropropane	Ave	0.4999	0.4001		40.0	50.0	-20.0	20.0
Propionitrile	Ave	1.230	1.387		282	250	12.7	20.0
Methacrylonitrile	Ave	0.1578	0.1888		150	125	19.7	20.0
Tetrahydrofuran	Ave	1.243	1.315		264	250	5.7	20.0
Bromochloromethane	Ave	0.1835	0.1642		44.7	50.0	-10.5	20.0
Chloroform	Ave	0.5395	0.4861	0.2000	45.0	50.0	-9.9	20.0
1,1,1-Trichloroethane	Ave	0.5272	0.4066	0.1000	38.6	50.0	-22.9*	20.0
Cyclohexane	Ave	0.5123	0.4948	0.1000	48.3	50.0	-3.4	20.0
1,1-Dichloropropene	Ave	0.4167	0.3764		45.2	50.0	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145456/3 Calibration Date: 07/06/2021 20:49

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL06C35.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
Carbon tetrachloride	Ave	0.4726	0.3437	0.1000	36.4	50.0	-27.3*	20.0
Isobutyl alcohol	Ave	0.3443	0.3425		622	625	-0.5	20.0
Benzene	Ave	1.190	1.174	0.5000	49.3	50.0	-1.3	20.0
1,2-Dichloroethane	Ave	0.4331	0.3651	0.1000	42.2	50.0	-15.7	20.0
t-Amyl methyl ether	Ave	0.9031	0.9059		50.2	50.0	0.3	20.0
n-Heptane	Ave	0.4310	0.3915		45.4	50.0	-9.2	20.0
n-Butanol	Ave	0.2661	0.2730		641	625	2.6	20.0
Trichloroethene	Ave	0.3260	0.2919	0.2000	44.8	50.0	-10.4	20.0
Methylcyclohexane	Ave	0.6137	0.5680	0.1000	46.3	50.0	-7.4	20.0
1,2-Dichloropropane	Ave	0.2892	0.3070	0.1000	53.1	50.0	6.2	20.0
t-Amyl ethyl ether	Ave	0.4939	0.4976		50.4	50.0	0.8	20.0
Methyl methacrylate	Ave	0.2682	0.2955		55.1	50.0	10.2	20.0
1,4-Dioxane	Ave	0.0534	0.0737	0.0050	863	625	38.1*	20.0
Dibromomethane	Ave	0.2012	0.1888		46.9	50.0	-6.2	20.0
Bromodichloromethane	Ave	0.4051	0.3665	0.2000	45.2	50.0	-9.5	20.0
2-Nitropropane	Ave	2.910	2.137		184	250	-26.6*	20.0
2-Chloroethyl vinyl ether	Ave	0.2130	0.2329		54.7	50.0	9.4	20.0
cis-1,3-Dichloropropene	Ave	0.4810	0.5016	0.2000	52.1	50.0	4.3	20.0
4-Methyl-2-pentanone	Ave	0.4153	0.4441	0.1000	107	100	6.9	20.0
Toluene	Ave	0.9789	0.9809	0.4000	50.1	50.0	0.2	20.0
trans-1,3-Dichloropropene	Ave	0.5428	0.5843	0.1000	53.8	50.0	7.7	20.0
Ethyl methacrylate	Ave	0.5517	0.6367		57.7	50.0	15.4	20.0
1,1,2-Trichloroethane	Ave	0.3496	0.3738	0.1000	53.5	50.0	6.9	20.0
Tetrachloroethene	Ave	0.5034	0.3980	0.2000	39.5	50.0	-20.9*	20.0
1,3-Dichloropropane	Ave	0.5629	0.6208		55.1	50.0	10.3	20.0
2-Hexanone	Ave	0.3803	0.4272	0.1000	112	100	12.3	20.0
Dibromochloromethane	Ave	0.4197	0.4041		48.1	50.0	-3.7	20.0
1,2-Dibromoethane	Ave	0.3865	0.3994	0.1000	51.7	50.0	3.3	20.0
1-Chlorohexane	Ave	0.5910	0.5549		46.9	50.0	-6.1	20.0
Chlorobenzene	Ave	1.147	1.144	0.5000	49.8	50.0	-0.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4272	0.3880		45.4	50.0	-9.2	20.0
Ethylbenzene	Ave	1.960	1.917	0.1000	48.9	50.0	-2.2	20.0
m&p-Xylene	Ave	0.7927	0.7724	0.1000	97.4	100	-2.6	20.0
o-Xylene	Ave	0.7822	0.7812	0.3000	49.9	50.0	-0.1	20.0
Styrene	Ave	1.270	1.303	0.3000	51.3	50.0	2.6	20.0
Bromoform	Ave	0.3193	0.2831	0.1000	44.3	50.0	-11.3	20.0
Isopropylbenzene	Ave	2.096	1.940	0.1000	46.3	50.0	-7.4	20.0
Cyclohexanone	Ave	0.2215	0.2646		747	625	19.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8855	1.114	0.3000	62.9	50.0	25.8*	20.0
Bromobenzene	Ave	0.9163	0.8479		46.3	50.0	-7.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3143	0.2958		118	125	-5.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145456/3 Calibration Date: 07/06/2021 20:49

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL06C35.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
1,2,3-Trichloropropane	Ave	0.3141	0.3475		55.3	50.0	10.6	20.0
N-Propylbenzene	Ave	3.959	4.161		52.6	50.0	5.1	20.0
2-Chlorotoluene	Ave	0.8693	0.8641		49.7	50.0	-0.6	20.0
1,3,5-Trimethylbenzene	Ave	2.971	3.026		50.9	50.0	1.9	20.0
4-Chlorotoluene	Ave	0.8837	0.8924		50.5	50.0	1.0	20.0
tert-Butylbenzene	Ave	0.6818	0.6284		46.1	50.0	-7.8	20.0
1,2,4-Trimethylbenzene	Ave	3.043	3.125		51.3	50.0	2.7	20.0
sec-Butylbenzene	Ave	3.689	3.680		49.9	50.0	-0.3	20.0
1,3-Dichlorobenzene	Ave	1.731	1.679	0.6000	48.5	50.0	-3.0	20.0
p-Isopropyltoluene	Ave	3.319	3.258		49.1	50.0	-1.9	20.0
1,4-Dichlorobenzene	Ave	1.768	1.698	0.5000	48.0	50.0	-4.0	20.0
1,2,3-Trimethylbenzene	Ave	3.032	3.192		52.6	50.0	5.3	20.0
Benzyl chloride	Ave	2.013	2.452		60.9	50.0	21.8*	20.0
1,3-Diethylbenzene	Ave	1.988	1.988		50.0	50.0	0.0	20.0
1,4-Diethylbenzene	Ave	2.092	2.062		49.3	50.0	-1.5	20.0
n-Butylbenzene	Ave	1.546	1.606		51.9	50.0	3.9	20.0
1,2-Dichlorobenzene	Ave	1.654	1.603	0.4000	48.5	50.0	-3.0	20.0
1,2-Diethylbenzene	Ave	1.637	1.626		49.6	50.0	-0.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2313	0.2810	0.0500	60.7	50.0	21.5*	20.0
1,3,5-Trichlorobenzene	Ave	1.211	1.083		44.7	50.0	-10.6	20.0
1,2,4-Trichlorobenzene	Ave	1.063	0.9861	0.2000	46.4	50.0	-7.2	20.0
Hexachlorobutadiene	Ave	0.4486	0.3515		39.2	50.0	-21.7*	20.0
Naphthalene	Ave	3.436	3.796		55.2	50.0	10.5	20.0
1,2,3-Trichlorobenzene	Ave	1.001	0.9000		45.0	50.0	-10.1	20.0
2-Methylnaphthalene	Ave	1.943	1.886		48.5	50.0	-3.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2616	0.2398		45.8	50.0	-8.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0639	0.0663		51.8	50.0	3.7	20.0
Toluene-d8 (Surr)	Ave	1.243	1.326		53.3	50.0	6.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4954	0.4736		47.8	50.0	-4.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06C35.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2021 20:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033637-003
Misc. Info.: CCVIS
Operator ID: etp33087 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub19

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 07:21:59 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: proctore Date: 06-Jul-2021 21:33:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.019	2.019	0.000	99	270871	50.0	41.1	
6 Chloromethane	50	2.219	2.219	0.000	99	286746	50.0	48.7	
8 Vinyl chloride	62	2.335	2.335	0.000	98	291355	50.0	50.0	
9 Butadiene	39	2.347	2.347	0.000	89	283303	50.0	53.4	
10 Bromomethane	94	2.688	2.688	0.000	90	237723	50.0	51.0	
11 Chloroethane	64	2.779	2.779	0.000	99	203731	50.0	53.2	
12 Dichlorofluoromethane	67	3.022	3.022	0.000	97	449426	50.0	48.7	
13 Trichlorofluoromethane	101	3.083	3.083	0.000	96	396953	50.0	39.1	
15 Pentane	43	3.150	3.150	0.000	96	427248	50.0	50.4	
16 Ethanol	45	3.223	3.223	0.000	22	87535	1250.0	1583.3	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.436	0.000	91	298430	50.0	50.1	
18 Acrolein	56	3.533	3.533	0.000	100	865102	500.0	449.8	
20 1,1-Dichloroethene	96	3.686	3.686	0.000	97	227190	50.0	47.7	
21 Acetone	58	3.710	3.710	0.000	79	79790	100.0	103.9	
22 112TCTFE	101	3.716	3.716	0.000	93	239952	50.0	43.7	
23 Isopropyl alcohol	45	3.856	3.856	0.000	98	105847	250.0	217.1	
24 Iodomethane	142	3.892	3.892	0.000	98	429384	50.0	43.8	
25 Carbon disulfide	76	4.002	4.002	0.000	99	766777	50.0	53.7	
26 Methyl acetate	43	4.142	4.142	0.000	97	283344	50.0	53.5	
27 3-Chloro-1-propene	41	4.178	4.178	0.000	93	362386	50.0	43.9	
* 29 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	91	250780	250.0	250.0	
28 Methylene Chloride	84	4.373	4.373	0.000	90	281113	50.0	52.7	
31 2-Methyl-2-propanol	59	4.489	4.489	0.000	100	221304	250.0	201.1	
32 Acrylonitrile	53	4.708	4.708	0.000	100	407378	125.0	155.2	
33 Methyl tert-butyl ether	73	4.787	4.787	0.000	94	825943	50.0	48.9	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	98	262044	50.0	47.4	
36 Hexane	57	5.225	5.225	0.000	90	401689	50.0	49.8	
37 1,1-Dichloroethane	63	5.462	5.462	0.000	95	454794	50.0	49.3	
39 Isopropyl ether	45	5.517	5.517	0.000	94	820024	50.0	50.3	
40 2-Chloro-1,3-butadiene	53	5.571	5.571	0.000	89	371324	50.0	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.052	6.052	0.000	97	809727	50.0	49.1	
43 2-Butanone (MEK)	43	6.241	6.241	0.000	99	430342	100.0	116.6	
44 cis-1,2-Dichloroethene	96	6.295	6.295	0.000	80	293745	50.0	46.9	
45 2,2-Dichloropropane	77	6.314	6.314	0.000	85	373337	50.0	40.0	
46 Propionitrile	54	6.326	6.326	0.000	99	347745	250.0	281.9	
47 Methacrylonitrile	67	6.557	6.557	0.000	90	440577	125.0	149.6	
49 Tetrahydrofuran	71	6.630	6.630	0.000	87	329668	250.0	264.3	
48 Chlorobromomethane	128	6.636	6.636	0.000	65	153210	50.0	44.7	
50 Chloroform	83	6.776	6.776	0.000	92	453578	50.0	45.0	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	93	223822	50.0	45.8	
52 1,1,1-Trichloroethane	97	7.013	7.013	0.000	98	379426	50.0	38.6	
54 Cyclohexane	56	7.123	7.123	0.000	88	461745	50.0	48.3	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	97	351263	50.0	45.2	
55 Carbon tetrachloride	117	7.232	7.232	0.000	94	320769	50.0	36.4	
58 Isobutyl alcohol	41	7.342	7.342	0.000	97	214740	625.0	621.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	61844	50.0	51.8	
60 Benzene	78	7.488	7.488	0.000	96	1095520	50.0	49.3	
61 1,2-Dichloroethane	62	7.561	7.561	0.000	97	340750	50.0	42.2	M
62 Tert-amyl methyl ether	73	7.676	7.676	0.000	99	845395	50.0	50.2	
* 64 Fluorobenzene (IS)	96	7.889	7.889	0.000	99	933187	50.0	50.0	
65 n-Heptane	43	7.901	7.901	0.000	90	365340	50.0	45.4	
66 n-Butanol	56	8.230	8.230	0.000	86	171170	625.0	641.2	
67 Trichloroethene	95	8.376	8.376	0.000	97	272436	50.0	44.8	
68 Methylcyclohexane	83	8.692	8.692	0.000	92	530037	50.0	46.3	
70 1,2-Dichloropropane	63	8.711	8.711	0.000	71	286499	50.0	53.1	
69 2-ethoxy-2-methyl butane	87	8.711	8.711	0.000	93	464386	50.0	50.4	
71 Methyl methacrylate	69	8.784	8.784	0.000	90	275744	50.0	55.1	
72 1,4-Dioxane	88	8.790	8.790	0.000	32	46234	625.0	863.1	M
74 Dibromomethane	93	8.820	8.820	0.000	98	176178	50.0	46.9	
75 Dichlorobromomethane	83	9.051	9.051	0.000	99	342002	50.0	45.2	
77 2-Nitropropane	41	9.313	9.313	0.000	96	535854	250.0	183.6	
78 2-Chloroethyl vinyl ether	63	9.404	9.404	0.000	91	217383	50.0	54.7	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	468095	50.0	52.1	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	828868	100.0	106.9	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	957904	50.0	53.3	
82 Toluene	92	9.970	9.970	0.000	98	708804	50.0	50.1	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	422265	50.0	53.8	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	460091	50.0	57.7	
86 1,1,2-Trichloroethane	97	10.426	10.426	0.000	89	270148	50.0	53.5	
87 Tetrachloroethene	166	10.517	10.517	0.000	97	287646	50.0	39.5	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	87	448611	50.0	55.1	
89 2-Hexanone	43	10.627	10.627	0.000	94	617435	100.0	112.3	
90 Chlorodibromomethane	129	10.797	10.797	0.000	89	292000	50.0	48.1	
91 Ethylene Dibromide	107	10.913	10.913	0.000	97	288614	50.0	51.7	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	84	722642	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	95	401018	50.0	46.9	
95 Chlorobenzene	112	11.363	11.363	0.000	96	826394	50.0	49.8	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	98	280364	50.0	45.4	
97 Ethylbenzene	91	11.448	11.448	0.000	97	1385216	50.0	48.9	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	1116326	100.0	97.4	
99 o-Xylene	106	11.892	11.892	0.000	95	564522	50.0	49.9	
100 Styrene	104	11.904	11.904	0.000	95	941736	50.0	51.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Bromoform	173	12.069	12.069	0.000	97	204546	50.0	44.3	
102 Isopropylbenzene	105	12.190	12.190	0.000	95	1401878	50.0	46.3	
103 Cyclohexanone	55	12.269	12.269	0.000	89	165897	625.0	746.7	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	342238	50.0	47.8	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	439959	50.0	62.9	
106 Bromobenzene	156	12.458	12.458	0.000	96	334971	50.0	46.3	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	91	292151	125.0	117.6	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	82	137301	50.0	55.3	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	1644076	50.0	52.6	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	341396	50.0	49.7	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	1195528	50.0	50.9	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	352547	50.0	50.5	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	248263	50.0	46.1	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	97	1234457	50.0	51.3	
116 sec-Butylbenzene	105	13.060	13.060	0.000	93	1453875	50.0	49.9	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	663450	50.0	48.5	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	1287033	50.0	49.1	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	395069	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	94	670648	50.0	48.0	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	1260933	50.0	52.6	
122 Benzyl chloride	91	13.310	13.310	0.000	98	968724	50.0	60.9	
123 1,3-Diethylbenzene	119	13.371	13.371	0.000	96	785583	50.0	50.0	
124 p-Diethylbenzene	119	13.444	13.444	0.000	94	814476	50.0	49.3	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	634419	50.0	51.9	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	633488	50.0	48.5	
127 o-diethylbenzene	119	13.510	13.510	0.000	95	642240	50.0	49.6	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	89	111000	50.0	60.7	
130 1,3,5-Trichlorobenzene	180	14.168	14.168	0.000	98	427919	50.0	44.7	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	389574	50.0	46.4	
132 Hexachlorobutadiene	225	14.672	14.672	0.000	98	138851	50.0	39.2	
133 Naphthalene	128	14.776	14.776	0.000	97	1499643	50.0	55.2	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	355546	50.0	45.0	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	744980	50.0	48.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#3_00008	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00008	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#1_00008	Amount Added:	5.00	Units: uL	
MSV_V_ETOH_00012	Amount Added:	10.00	Units: uL	
MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00031	Amount Added:	2.50	Units: uL	
MSV_HP11_ISSS_00007	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Jul-2021 07:22:00 Chrom Revision: 2.3 30-Jun-2021 09:43:24

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06C35.D

Injection Date: 06-Jul-2021 20:49:30 Instrument ID: 7159 Operator ID: etp33087

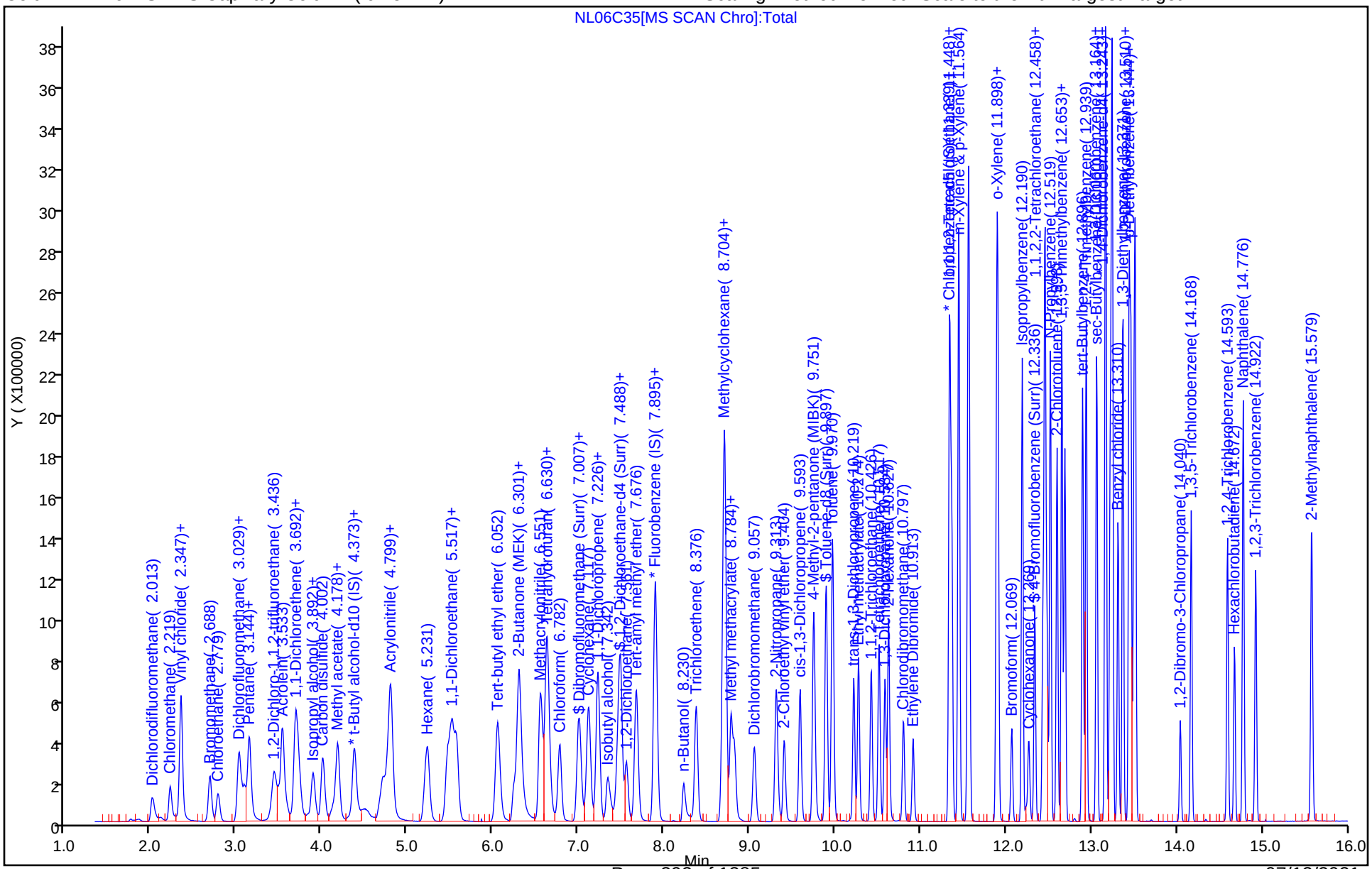
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

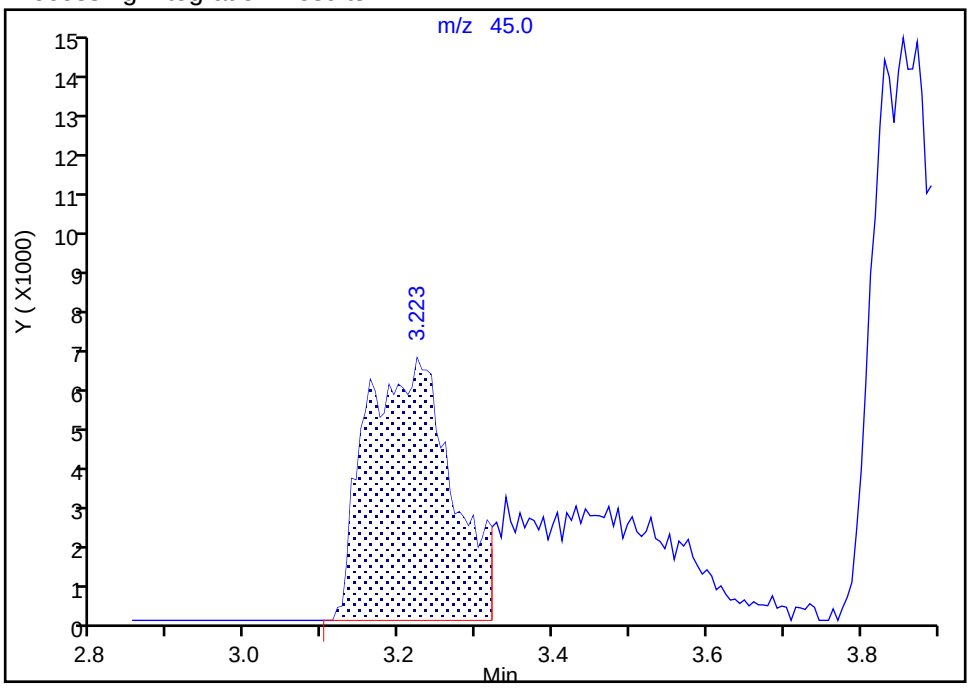
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Injection Date: 06-Jul-2021 20:49:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

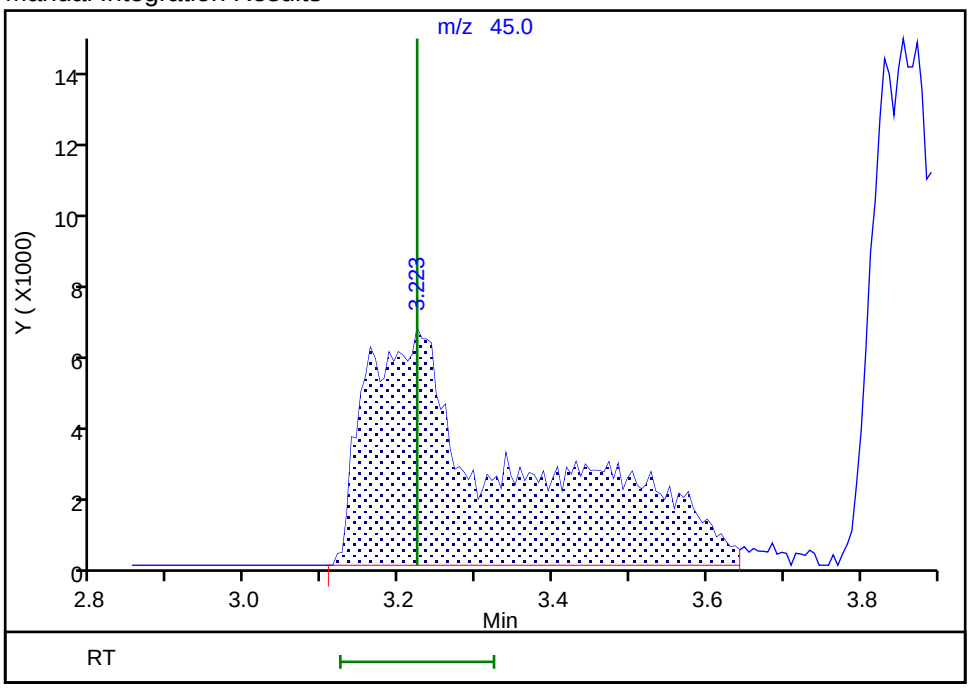
Processing Integration Results

RT: 3.22
Area: 48964
Amount: 885.6604
Amount Units: ug/l



Manual Integration Results

RT: 3.22
Area: 87535
Amount: 1583.3323
Amount Units: ug/l



Reviewer: proctore, 06-Jul-2021 21:16:29
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

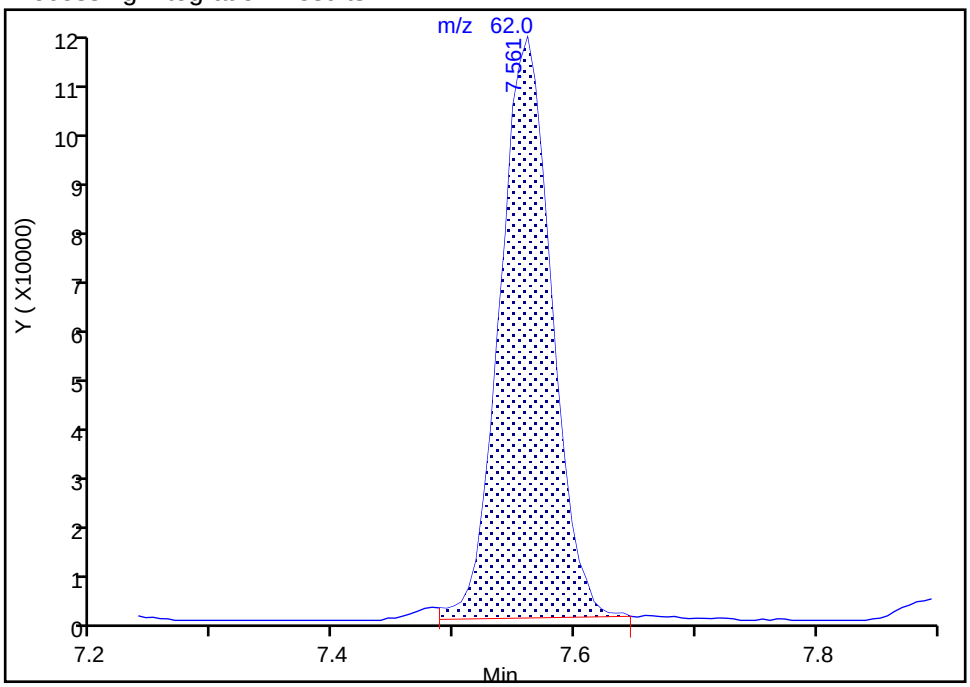
Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06C35.D
Injection Date: 06-Jul-2021 20:49:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

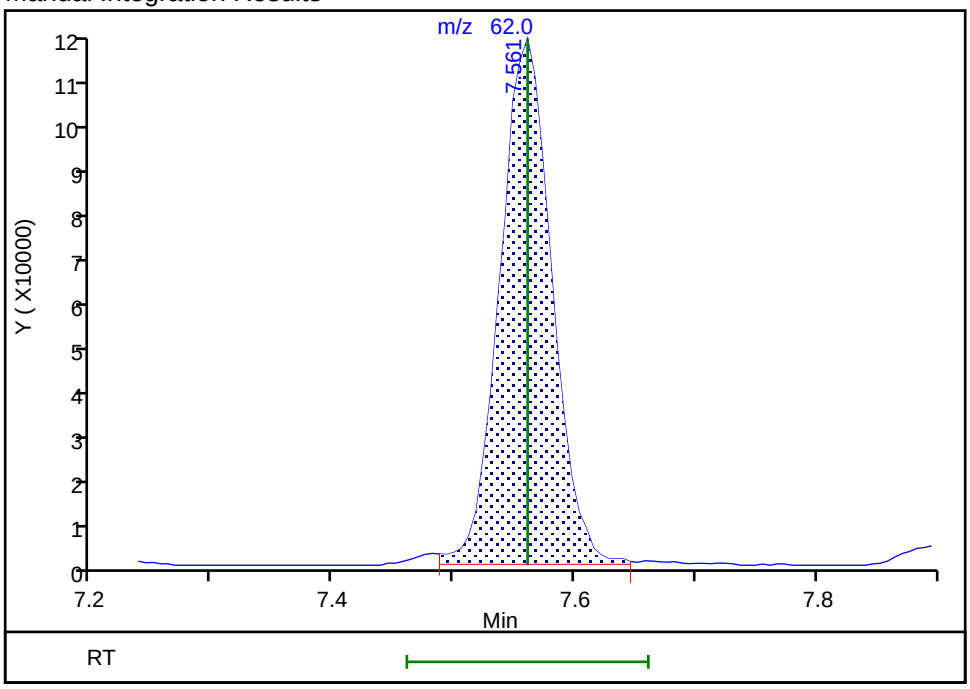
Processing Integration Results

RT: 7.56
Area: 337896
Amount: 41.800680
Amount Units: ug/l



Manual Integration Results

RT: 7.56
Area: 340750
Amount: 42.153745
Amount Units: ug/l



Reviewer: proctore, 06-Jul-2021 21:16:57
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

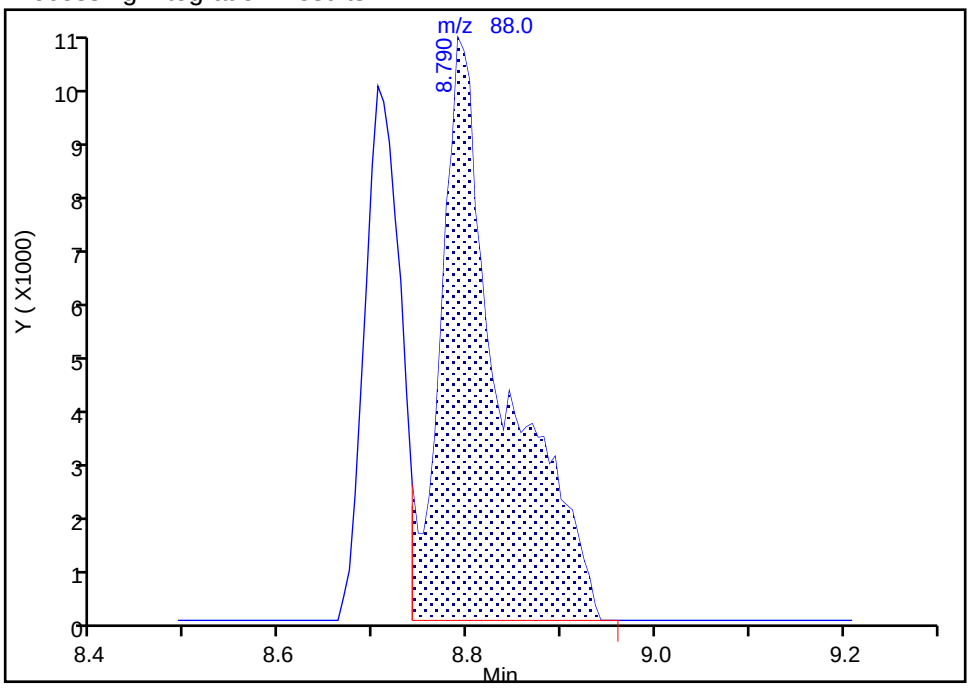
Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06C35.D
Injection Date: 06-Jul-2021 20:49:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

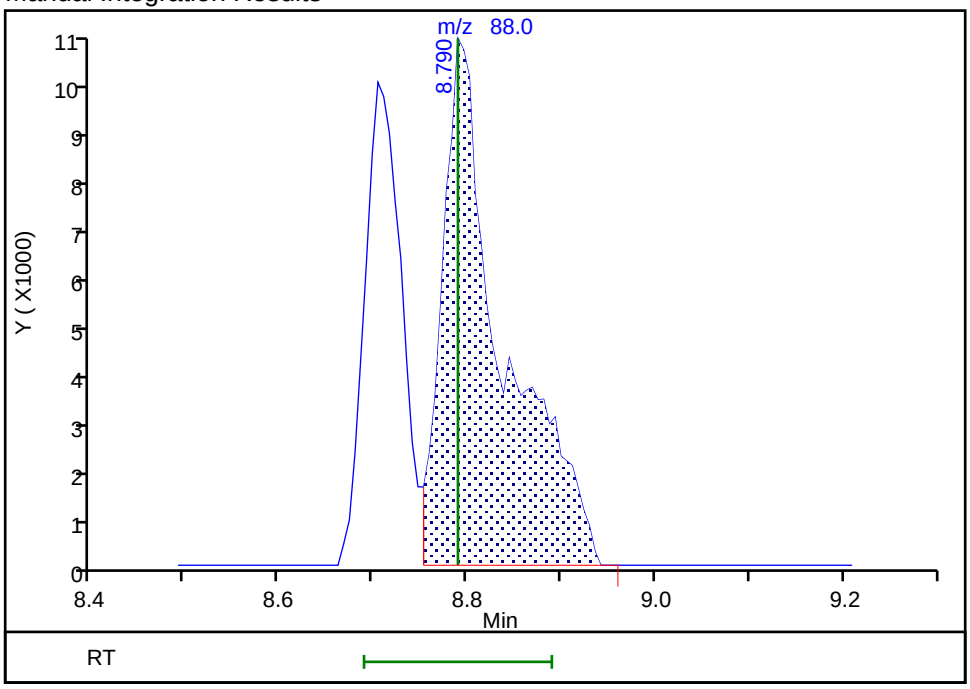
Processing Integration Results

RT: 8.79
Area: 47661
Amount: 889.7893
Amount Units: ug/l



Manual Integration Results

RT: 8.79
Area: 46234
Amount: 863.1485
Amount Units: ug/l



Reviewer: proctore, 06-Jul-2021 21:17:15
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145954/3 Calibration Date: 07/07/2021 20:58

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL07C35.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3532	0.2751	0.1000	38.9	50.0	-22.1*	20.0
Chloromethane	Ave	0.3157	0.3099	0.1000	49.1	50.0	-1.8	20.0
Vinyl chloride	Ave	0.3119	0.3116	0.1000	49.9	50.0	-0.1	20.0
1,3-Butadiene	Ave	0.2845	0.3274		57.5	50.0	15.1	20.0
Bromomethane	Ave	0.2497	0.2585	0.1000	51.8	50.0	3.5	20.0
Chloroethane	Ave	0.2050	0.2163	0.1000	52.8	50.0	5.5	20.0
Dichlorofluoromethane	Ave	0.4940	0.4815		48.7	50.0	-2.5	20.0
Trichlorofluoromethane	Ave	0.5439	0.4067	0.1000	37.4	50.0	-25.2*	20.0
n-Pentane	Ave	0.4539	0.4733		52.1	50.0	4.3	20.0
Ethanol	Ave	0.0551	0.0704		1600	1250	27.8*	20.0
Freon 123a	Ave	0.3193	0.3184		49.9	50.0	-0.3	20.0
Acrolein	Ave	1.917	1.784		465	500	-6.9	20.0
1,1-Dichloroethene	Ave	0.2552	0.2418	0.1000	47.4	50.0	-5.3	20.0
Acetone	Ave	0.7656	0.8905	0.1000	116	100	16.3	20.0
Freon 113	Ave	0.2945	0.2499	0.1000	42.4	50.0	-15.1	20.0
2-Propanol	Ave	0.4861	0.5841		300	250	20.2*	20.0
Methyl iodide	Ave	0.5248	0.4481		42.7	50.0	-14.6	20.0
Carbon disulfide	Ave	0.7653	0.8265	0.1000	54.0	50.0	8.0	20.0
Methyl acetate	Ave	0.2839	0.3078	0.1000	54.2	50.0	8.4	20.0
Allyl chloride	Ave	0.4423	0.4093		46.3	50.0	-7.5	20.0
Methylene Chloride	Ave	0.2860	0.2976	0.1000	52.0	50.0	4.1	20.0
t-Butyl alcohol	Ave	1.097	0.9745		222	250	-11.2	20.0
Acrylonitrile	Ave	0.1406	0.1735		154	125	23.4*	20.0
Methyl tertiary butyl ether	Ave	0.9057	0.8697	0.1000	48.0	50.0	-4.0	20.0
trans-1,2-Dichloroethene	Ave	0.2961	0.2838	0.1000	47.9	50.0	-4.2	20.0
n-Hexane	Ave	0.4318	0.4388		50.8	50.0	1.6	20.0
1,1-Dichloroethane	Ave	0.4940	0.4844	0.2000	49.0	50.0	-1.9	20.0
di-Isopropyl ether	Ave	0.8729	0.8999		51.5	50.0	3.1	20.0
2-Chloro-1,3-butadiene	Ave	0.4721	0.3968		42.0	50.0	-15.9	20.0
Ethyl t-butyl ether	Ave	0.8839	0.8642		48.9	50.0	-2.2	20.0
2-Butanone	Ave	0.1978	0.2293	0.1000	116	100	15.9	20.0
cis-1,2-Dichloroethene	Ave	0.3357	0.3141	0.1000	46.8	50.0	-6.4	20.0
2,2-Dichloropropane	Ave	0.4999	0.3907		39.1	50.0	-21.8*	20.0
Propionitrile	Ave	1.230	1.366		278	250	11.1	20.0
Methacrylonitrile	Ave	0.1578	0.1878		149	125	19.0	20.0
Bromochloromethane	Ave	0.1835	0.1562		42.6	50.0	-14.9	20.0
Tetrahydrofuran	Ave	1.243	1.257		253	250	1.1	20.0
Chloroform	Ave	0.5395	0.4825	0.2000	44.7	50.0	-10.6	20.0
1,1,1-Trichloroethane	Ave	0.5272	0.3998	0.1000	37.9	50.0	-24.2*	20.0
Cyclohexane	Ave	0.5123	0.5059	0.1000	49.4	50.0	-1.2	20.0
1,1-Dichloropropene	Ave	0.4167	0.3771		45.2	50.0	-9.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145954/3 Calibration Date: 07/07/2021 20:58

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL07C35.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
Carbon tetrachloride	Ave	0.4726	0.3367	0.1000	35.6	50.0	-28.8*	20.0
Isobutyl alcohol	Ave	0.3443	0.3462		629	625	0.6	20.0
Benzene	Ave	1.190	1.181	0.5000	49.6	50.0	-0.8	20.0
1,2-Dichloroethane	Ave	0.4331	0.3645	0.1000	42.1	50.0	-15.8	20.0
t-Amyl methyl ether	Ave	0.9031	0.8922		49.4	50.0	-1.2	20.0
n-Heptane	Ave	0.4310	0.3875		45.0	50.0	-10.1	20.0
n-Butanol	Ave	0.2661	0.3169		744	625	19.1	20.0
Trichloroethene	Ave	0.3260	0.2907	0.2000	44.6	50.0	-10.8	20.0
Methylcyclohexane	Ave	0.6137	0.5606	0.1000	45.7	50.0	-8.6	20.0
t-Amyl ethyl ether	Ave	0.4939	0.4818		48.8	50.0	-2.5	20.0
1,2-Dichloropropane	Ave	0.2892	0.3112	0.1000	53.8	50.0	7.6	20.0
Methyl methacrylate	Ave	0.2682	0.2967		55.3	50.0	10.6	20.0
1,4-Dioxane	Ave	0.0534	0.0762	0.0050	892	625	42.7*	20.0
Dibromomethane	Ave	0.2012	0.1866		46.4	50.0	-7.3	20.0
Bromodichloromethane	Ave	0.4051	0.3608	0.2000	44.5	50.0	-10.9	20.0
2-Nitropropane	Ave	2.910	2.092		180	250	-28.1*	20.0
2-Chloroethyl vinyl ether	Ave	0.2130	0.2352		55.2	50.0	10.4	20.0
cis-1,3-Dichloropropene	Ave	0.4810	0.4998	0.2000	52.0	50.0	3.9	20.0
4-Methyl-2-pentanone	Ave	0.4153	0.4612	0.1000	111	100	11.1	20.0
Toluene	Ave	0.9789	0.9865	0.4000	50.4	50.0	0.8	20.0
trans-1,3-Dichloropropene	Ave	0.5428	0.5789	0.1000	53.3	50.0	6.7	20.0
Ethyl methacrylate	Ave	0.5517	0.6445		58.4	50.0	16.8	20.0
1,1,2-Trichloroethane	Ave	0.3496	0.3652	0.1000	52.2	50.0	4.5	20.0
Tetrachloroethene	Ave	0.5034	0.3917	0.2000	38.9	50.0	-22.2*	20.0
1,3-Dichloropropane	Ave	0.5629	0.6158		54.7	50.0	9.4	20.0
2-Hexanone	Ave	0.3803	0.4499	0.1000	118	100	18.3	20.0
Dibromochloromethane	Ave	0.4197	0.3924		46.8	50.0	-6.5	20.0
1,2-Dibromoethane	Ave	0.3865	0.3921	0.1000	50.7	50.0	1.4	20.0
1-Chlorohexane	Ave	0.5910	0.5562		47.1	50.0	-5.9	20.0
Chlorobenzene	Ave	1.147	1.122	0.5000	48.9	50.0	-2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4272	0.3739		43.8	50.0	-12.5	20.0
Ethylbenzene	Ave	1.960	1.913	0.1000	48.8	50.0	-2.3	20.0
m&p-Xylene	Ave	0.7927	0.7651	0.1000	96.5	100	-3.5	20.0
o-Xylene	Ave	0.7822	0.7730	0.3000	49.4	50.0	-1.2	20.0
Styrene	Ave	1.270	1.294	0.3000	50.9	50.0	1.9	20.0
Bromoform	Ave	0.3193	0.2777	0.1000	43.5	50.0	-13.0	20.0
Isopropylbenzene	Ave	2.096	1.924	0.1000	45.9	50.0	-8.2	20.0
Cyclohexanone	Ave	0.2215	0.2614		738	625	18.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8855	1.113	0.3000	62.9	50.0	25.7*	20.0
Bromobenzene	Ave	0.9163	0.8375		45.7	50.0	-8.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3143	0.2746		109	125	-12.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145954/3 Calibration Date: 07/07/2021 20:58

Instrument ID: 7159 Calib Start Date: 03/08/2021 15:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2021 20:15

Lab File ID: NL07C35.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
1,2,3-Trichloropropane	Ave	0.3141	0.3534		56.3	50.0	12.5	20.0
N-Propylbenzene	Ave	3.959	4.233		53.5	50.0	6.9	20.0
2-Chlorotoluene	Ave	0.8693	0.8589		49.4	50.0	-1.2	20.0
1,3,5-Trimethylbenzene	Ave	2.971	3.055		51.4	50.0	2.8	20.0
4-Chlorotoluene	Ave	0.8837	0.8926		50.5	50.0	1.0	20.0
tert-Butylbenzene	Ave	0.6818	0.6296		46.2	50.0	-7.6	20.0
1,2,4-Trimethylbenzene	Ave	3.043	3.127		51.4	50.0	2.7	20.0
sec-Butylbenzene	Ave	3.689	3.694		50.1	50.0	0.1	20.0
1,3-Dichlorobenzene	Ave	1.731	1.668	0.6000	48.2	50.0	-3.7	20.0
p-Isopropyltoluene	Ave	3.319	3.282		49.4	50.0	-1.1	20.0
1,4-Dichlorobenzene	Ave	1.768	1.689	0.5000	47.8	50.0	-4.5	20.0
1,2,3-Trimethylbenzene	Ave	3.032	3.203		52.8	50.0	5.6	20.0
Benzyl chloride	Ave	2.013	2.425		60.2	50.0	20.5*	20.0
1,3-Diethylbenzene	Ave	1.988	1.980		49.8	50.0	-0.4	20.0
1,4-Diethylbenzene	Ave	2.092	2.062		49.3	50.0	-1.5	20.0
n-Butylbenzene	Ave	1.546	1.628		52.6	50.0	5.3	20.0
1,2-Dichlorobenzene	Ave	1.654	1.598	0.4000	48.3	50.0	-3.4	20.0
1,2-Diethylbenzene	Ave	1.637	1.641		50.1	50.0	0.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2313	0.2794	0.0500	60.4	50.0	20.8*	20.0
1,3,5-Trichlorobenzene	Ave	1.211	1.067		44.1	50.0	-11.9	20.0
1,2,4-Trichlorobenzene	Ave	1.063	0.9626	0.2000	45.3	50.0	-9.4	20.0
Hexachlorobutadiene	Ave	0.4486	0.3475		38.7	50.0	-22.5*	20.0
Naphthalene	Ave	3.436	3.721		54.1	50.0	8.3	20.0
1,2,3-Trichlorobenzene	Ave	1.001	0.8856		44.2	50.0	-11.5	20.0
2-Methylnaphthalene	Ave	1.943	1.824		46.9	50.0	-6.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2616	0.2387		45.6	50.0	-8.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0639	0.0650		50.9	50.0	1.7	20.0
Toluene-d8 (Surr)	Ave	1.243	1.327		53.3	50.0	6.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4954	0.4838		48.8	50.0	-2.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07C35.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Jul-2021 20:58:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-003
Misc. Info.: CCVIS
Operator ID: etp33087 Instrument ID: 7159
Sublist: chrom-MSVoa_7159*sub19

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 22:36:11 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1641

First Level Reviewer: proctore Date: 07-Jul-2021 21:38:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.019	2.019	0.000	99	271552	50.0	38.9	
6 Chloromethane	50	2.225	2.225	0.000	99	305876	50.0	49.1	M
8 Vinyl chloride	62	2.347	2.347	0.000	98	307529	50.0	49.9	
9 Butadiene	39	2.359	2.359	0.000	88	323136	50.0	57.5	M
10 Bromomethane	94	2.694	2.694	0.000	89	255151	50.0	51.8	
11 Chloroethane	64	2.791	2.791	0.000	100	213491	50.0	52.8	
12 Dichlorofluoromethane	67	3.035	3.035	0.000	97	475198	50.0	48.7	
13 Trichlorofluoromethane	101	3.089	3.089	0.000	97	401411	50.0	37.4	
15 Pentane	43	3.150	3.150	0.000	97	467129	50.0	52.1	
16 Ethanol	45	3.217	3.217	0.000	92	94966	1250.0	1597.5	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.442	3.442	0.000	92	314291	50.0	49.9	
18 Acrolein	56	3.540	3.540	0.000	100	962157	500.0	465.3	
20 1,1-Dichloroethene	96	3.692	3.692	0.000	97	238606	50.0	47.4	
21 Acetone	58	3.716	3.716	0.000	80	96058	100.0	116.3	
22 112TCTFE	101	3.728	3.728	0.000	93	246620	50.0	42.4	
23 Isopropyl alcohol	45	3.880	3.880	0.000	98	157505	250.0	300.4	
24 Iodomethane	142	3.898	3.898	0.000	97	442283	50.0	42.7	
25 Carbon disulfide	76	4.014	4.014	0.000	98	815759	50.0	54.0	
26 Methyl acetate	43	4.148	4.148	0.000	97	303755	50.0	54.2	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	93	403987	50.0	46.3	
* 29 t-Butyl alcohol-d10 (IS)	65	4.379	4.379	0.000	89	269663	250.0	250.0	
28 Methylene Chloride	84	4.379	4.379	0.000	90	293688	50.0	52.0	
31 2-Methyl-2-propanol	59	4.501	4.501	0.000	99	262786	250.0	222.0	
32 Acrylonitrile	53	4.708	4.708	0.000	100	428075	125.0	154.2	
33 Methyl tert-butyl ether	73	4.793	4.793	0.000	94	858359	50.0	48.0	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	99	280056	50.0	47.9	
36 Hexane	57	5.231	5.231	0.000	90	433116	50.0	50.8	
37 1,1-Dichloroethane	63	5.468	5.468	0.000	96	478088	50.0	49.0	
39 Isopropyl ether	45	5.523	5.523	0.000	94	888185	50.0	51.5	
40 2-Chloro-1,3-butadiene	53	5.578	5.578	0.000	89	391658	50.0	42.0	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	6.058	6.058	0.000	97	852890	50.0	48.9	
43 2-Butanone (MEK)	43	6.247	6.247	0.000	99	452670	100.0	115.9	
44 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	80	309972	50.0	46.8	
45 2,2-Dichloropropane	77	6.314	6.314	0.000	86	385629	50.0	39.1	
46 Propionitrile	54	6.338	6.338	0.000	99	368305	250.0	277.6	
47 Methacrylonitrile	67	6.563	6.563	0.000	90	463296	125.0	148.8	
49 Tetrahydrofuran	71	6.636	6.636	0.000	87	338886	250.0	252.7	
48 Chlorobromomethane	128	6.636	6.636	0.000	65	154194	50.0	42.6	
50 Chloroform	83	6.782	6.782	0.000	93	476183	50.0	44.7	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	235617	50.0	45.6	
52 1,1,1-Trichloroethane	97	7.019	7.019	0.000	98	394542	50.0	37.9	
54 Cyclohexane	56	7.123	7.123	0.000	88	499326	50.0	49.4	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	96	372185	50.0	45.2	
55 Carbon tetrachloride	117	7.238	7.238	0.000	82	332281	50.0	35.6	
58 Isobutyl alcohol	41	7.348	7.348	0.000	95	233416	625.0	628.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.457	0.000	93	64170	50.0	50.9	
60 Benzene	78	7.494	7.494	0.000	96	1165257	50.0	49.6	
61 1,2-Dichloroethane	62	7.561	7.561	0.000	97	359778	50.0	42.1	
62 Tert-amyl methyl ether	73	7.676	7.676	0.000	99	880518	50.0	49.4	
* 64 Fluorobenzene (IS)	96	7.895	7.895	0.000	99	986950	50.0	50.0	
65 n-Heptane	43	7.908	7.908	0.000	90	382427	50.0	45.0	
66 n-Butanol	56	8.236	8.236	0.000	87	213607	625.0	744.2	
67 Trichloroethene	95	8.376	8.376	0.000	98	286917	50.0	44.6	
68 Methylcyclohexane	83	8.692	8.692	0.000	93	553331	50.0	45.7	
69 2-ethoxy-2-methyl butane	87	8.711	8.711	0.000	96	475530	50.0	48.8	
70 1,2-Dichloropropane	63	8.717	8.717	0.000	71	307110	50.0	53.8	
71 Methyl methacrylate	69	8.784	8.784	0.000	90	292807	50.0	55.3	
72 1,4-Dioxane	88	8.796	8.796	0.000	33	51364	625.0	891.8	M
74 Dibromomethane	93	8.826	8.826	0.000	98	184187	50.0	46.4	
75 Dichlorobromomethane	83	9.057	9.057	0.000	100	356087	50.0	44.5	
77 2-Nitropropane	41	9.313	9.313	0.000	97	564118	250.0	179.7	
78 2-Chloroethyl vinyl ether	63	9.410	9.410	0.000	91	232105	50.0	55.2	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	493299	50.0	52.0	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	910358	100.0	111.1	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	92	1010694	50.0	53.3	
82 Toluene	92	9.970	9.970	0.000	98	751612	50.0	50.4	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	441059	50.0	53.3	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	491049	50.0	58.4	
86 1,1,2-Trichloroethane	97	10.426	10.426	0.000	89	278264	50.0	52.2	
87 Tetrachloroethene	166	10.517	10.517	0.000	96	298403	50.0	38.9	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	88	469143	50.0	54.7	
89 2-Hexanone	43	10.627	10.627	0.000	94	685564	100.0	118.3	
90 Chlorodibromomethane	129	10.803	10.803	0.000	90	298972	50.0	46.8	
91 Ethylene Dibromide	107	10.913	10.913	0.000	98	298701	50.0	50.7	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	84	761866	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	96	423736	50.0	47.1	
95 Chlorobenzene	112	11.363	11.363	0.000	96	855099	50.0	48.9	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	97	284887	50.0	43.8	
97 Ethylbenzene	91	11.448	11.448	0.000	98	1457801	50.0	48.8	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	1165817	100.0	96.5	
99 o-Xylene	106	11.892	11.892	0.000	95	588912	50.0	49.4	
100 Styrene	104	11.904	11.904	0.000	95	985756	50.0	50.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Bromoform	173	12.069	12.069	0.000	97	211533	50.0	43.5	
102 Isopropylbenzene	105	12.190	12.190	0.000	95	1465775	50.0	45.9	
103 Cyclohexanone	55	12.263	12.263	0.000	89	176212	625.0	737.6	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	88	368557	50.0	48.8	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	455474	50.0	62.9	
106 Bromobenzene	156	12.458	12.458	0.000	97	342705	50.0	45.7	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	85	280915	125.0	109.2	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	83	144627	50.0	56.3	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	1732112	50.0	53.5	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	351453	50.0	49.4	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	1250248	50.0	51.4	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	365250	50.0	50.5	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	257655	50.0	46.2	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	97	1279600	50.0	51.4	
116 sec-Butylbenzene	105	13.060	13.060	0.000	94	1511659	50.0	50.1	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	682459	50.0	48.2	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	1342881	50.0	49.4	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	409211	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	94	690982	50.0	47.8	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	1310746	50.0	52.8	
122 Benzyl chloride	91	13.310	13.310	0.000	98	992204	50.0	60.2	
123 1,3-Diethylbenzene	119	13.371	13.371	0.000	95	810204	50.0	49.8	
124 p-Diethylbenzene	119	13.444	13.444	0.000	96	843779	50.0	49.3	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	666274	50.0	52.6	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	654008	50.0	48.3	
127 o-diethylbenzene	119	13.517	13.517	0.000	94	671361	50.0	50.1	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	87	114348	50.0	60.4	
130 1,3,5-Trichlorobenzene	180	14.168	14.168	0.000	98	436802	50.0	44.1	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	393891	50.0	45.3	
132 Hexachlorobutadiene	225	14.679	14.679	0.000	98	142221	50.0	38.7	
133 Naphthalene	128	14.776	14.776	0.000	97	1522839	50.0	54.1	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	362406	50.0	44.2	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	746257	50.0	46.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#3_00008	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00008	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#1_00008	Amount Added: 5.00	Units: uL	
MSV_V_ETOH_00012	Amount Added: 10.00	Units: uL	
MSV_VCYC_00006	Amount Added: 10.00	Units: uL	
MSV_CCV_GASES_00031	Amount Added: 2.50	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 07-Jul-2021 22:36:12 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07C35.D

Injection Date: 07-Jul-2021 20:58:30 Instrument ID: 7159 Operator ID: etp33087

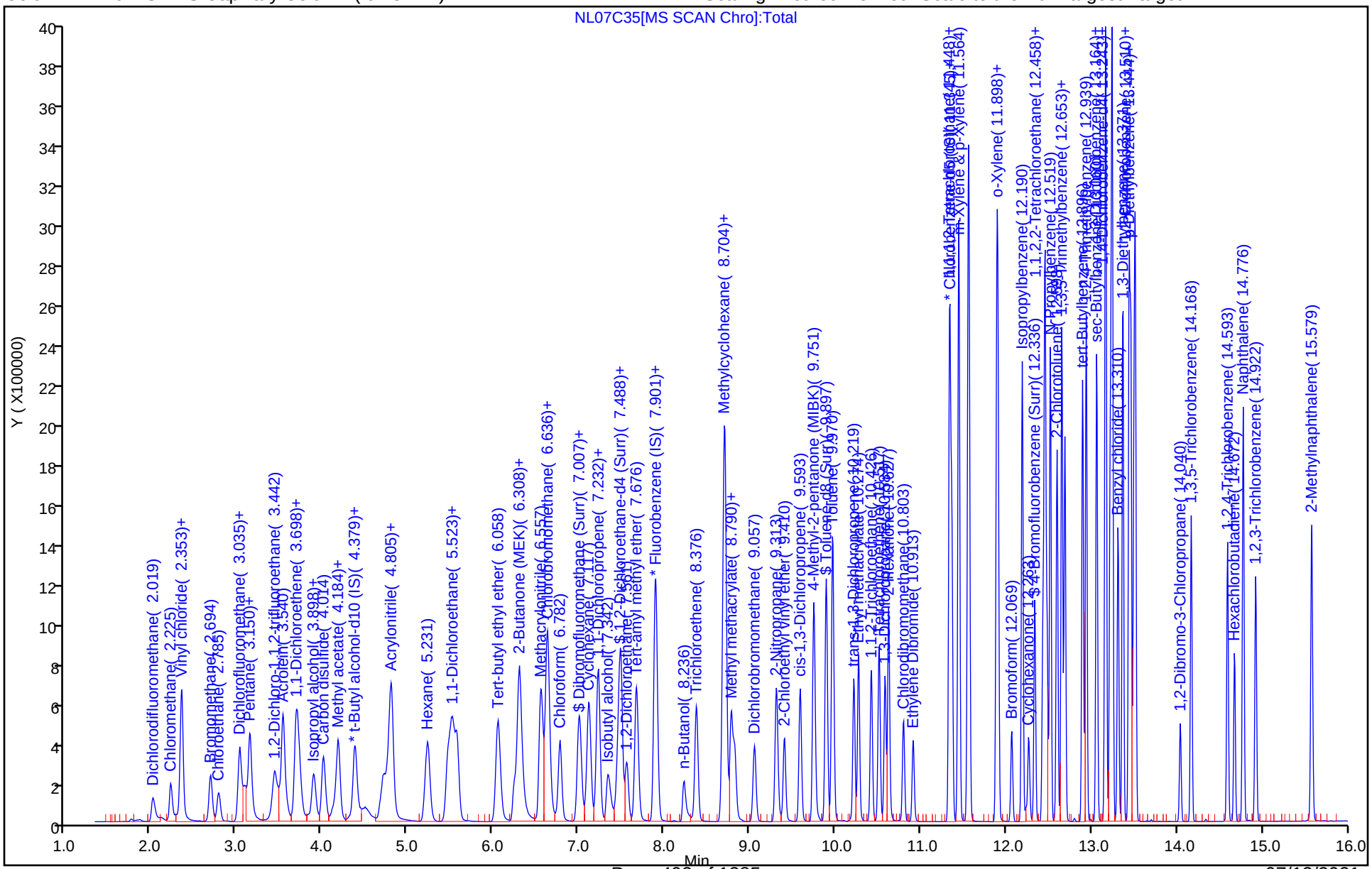
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

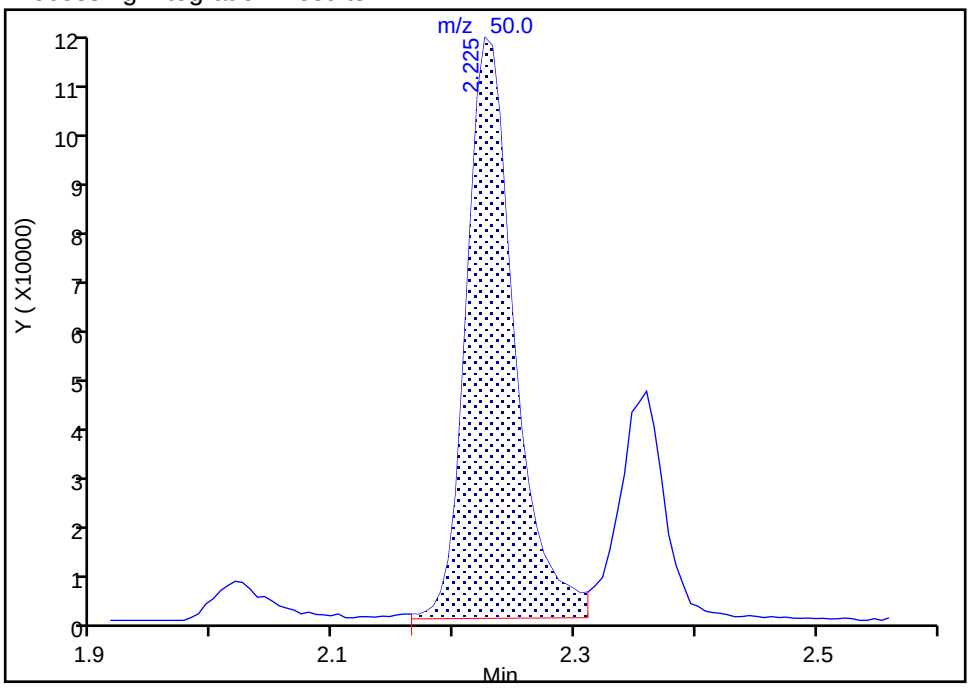
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Injection Date: 07-Jul-2021 20:58:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Signal: 1

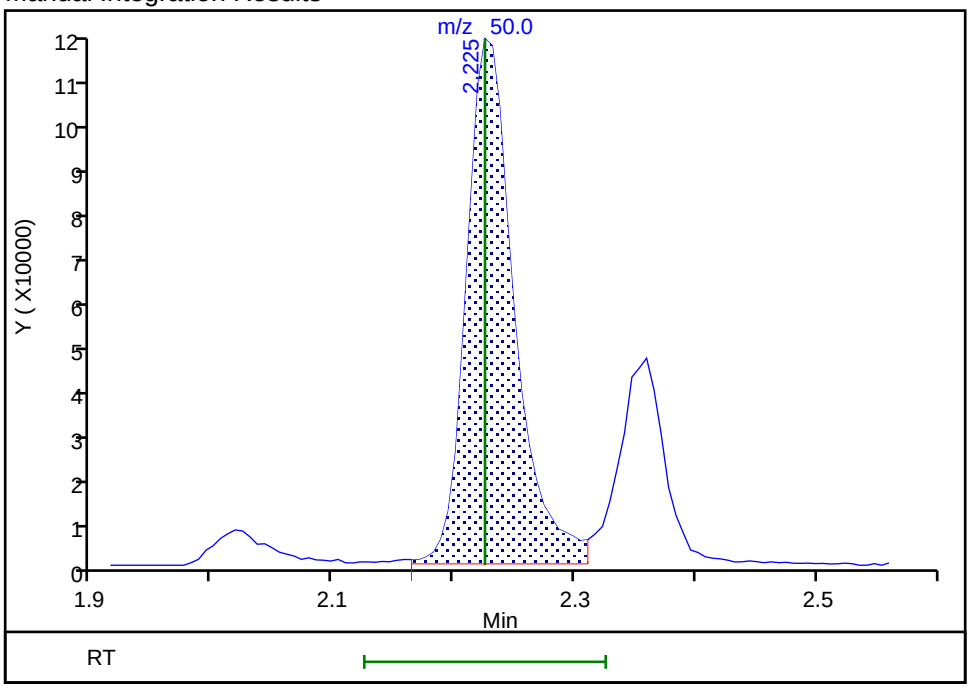
Processing Integration Results

RT: 2.23
Area: 304831
Amount: 48.917574
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 305876
Amount: 49.085269
Amount Units: ug/l



Reviewer: proctore, 07-Jul-2021 21:22:00
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

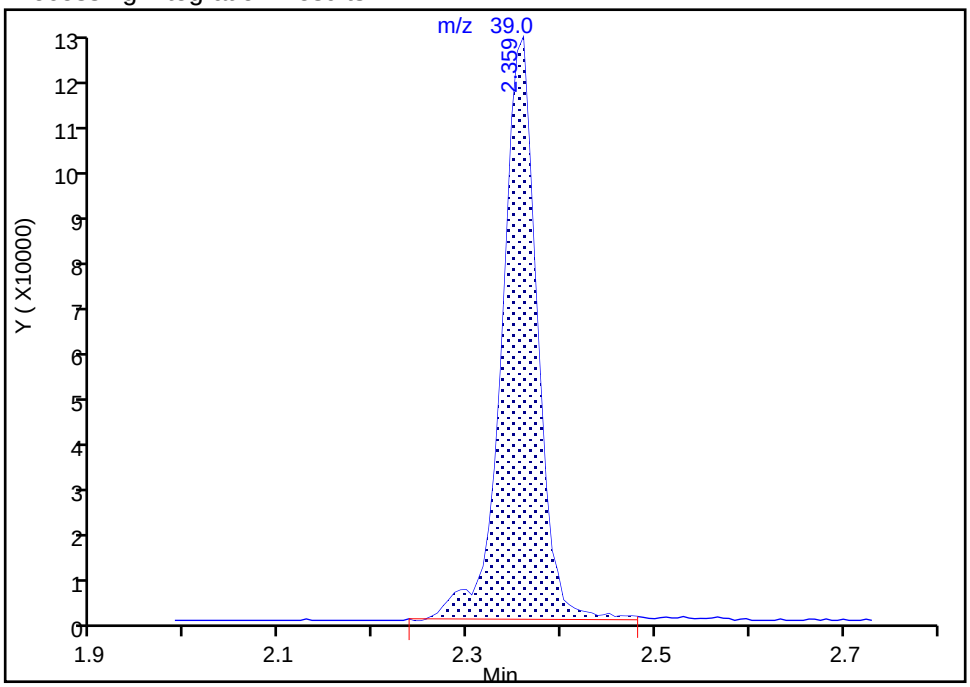
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Injection Date: 07-Jul-2021 20:58:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

9 Butadiene, CAS: 106-99-0

Signal: 1

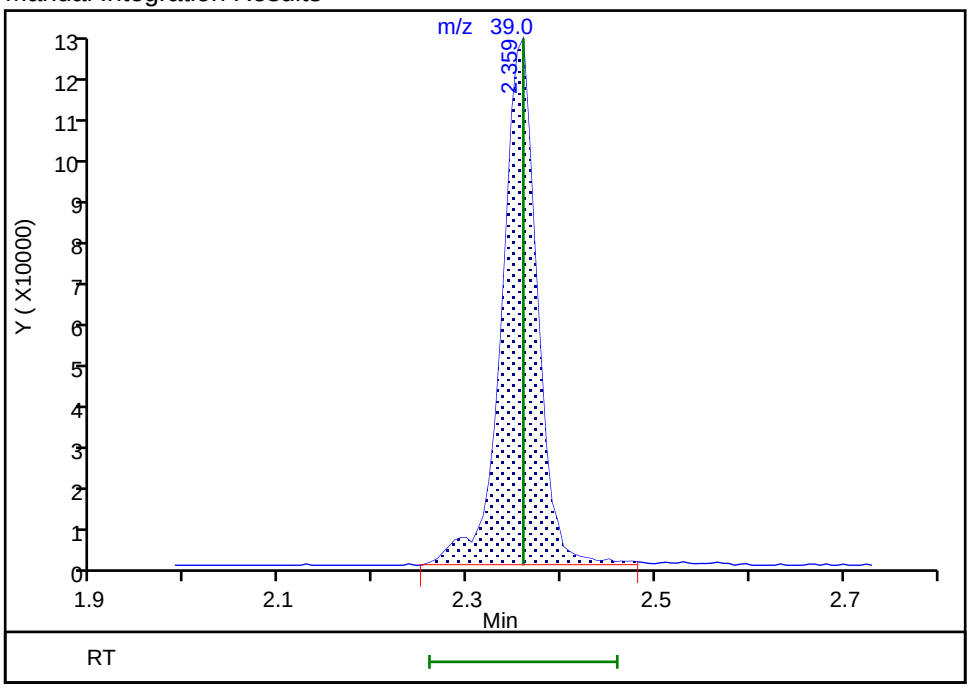
Processing Integration Results

RT: 2.36
Area: 321622
Amount: 57.278740
Amount Units: ug/l



Manual Integration Results

RT: 2.36
Area: 323136
Amount: 57.548373
Amount Units: ug/l



Reviewer: proctore, 07-Jul-2021 21:24:34
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

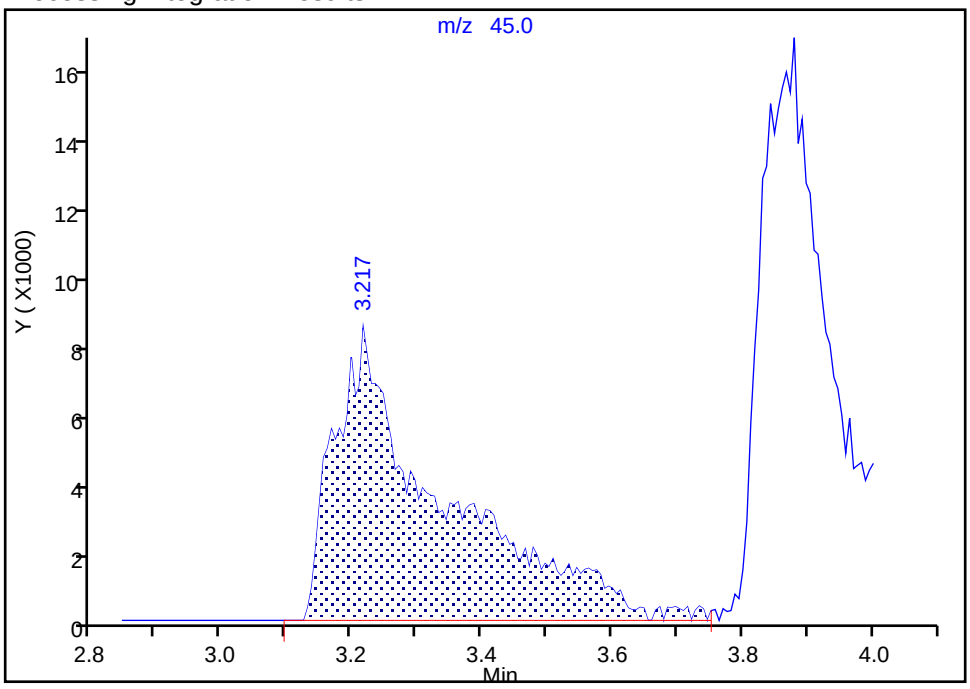
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Injection Date: 07-Jul-2021 20:58:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

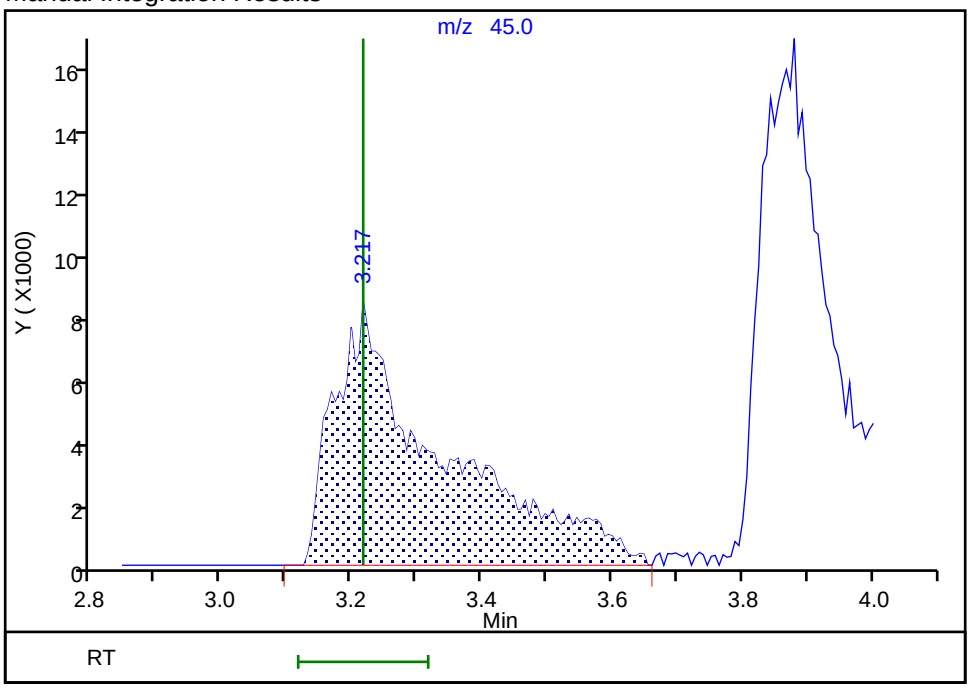
Processing Integration Results

RT: 3.22
Area: 96458
Amount: 1622.5576
Amount Units: ug/l



Manual Integration Results

RT: 3.22
Area: 94966
Amount: 1597.4601
Amount Units: ug/l



Reviewer: proctore, 07-Jul-2021 21:22:16
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

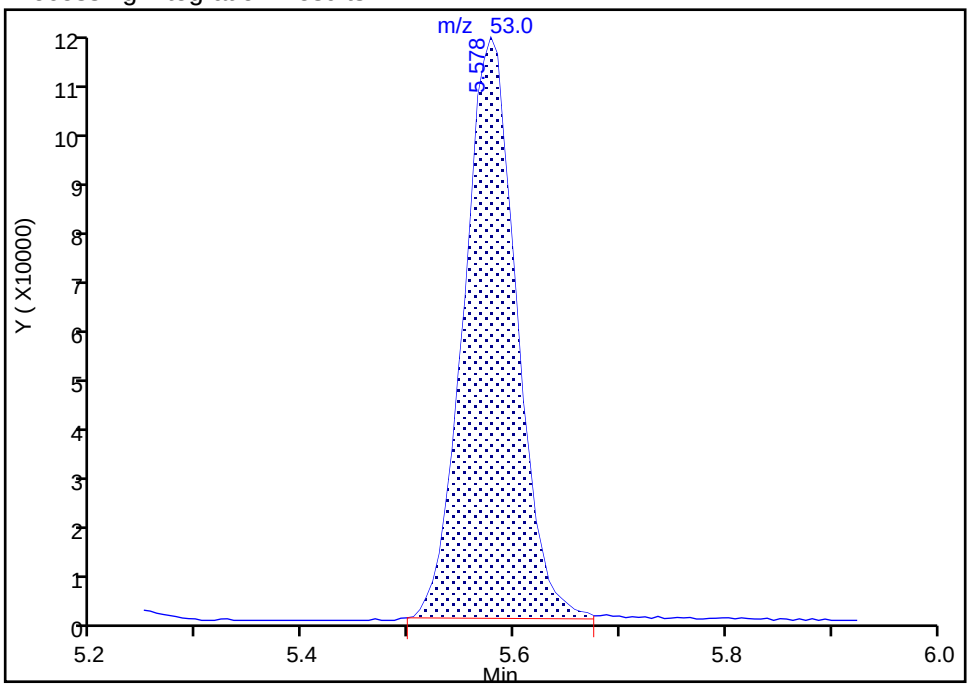
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Injection Date: 07-Jul-2021 20:58:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

40 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

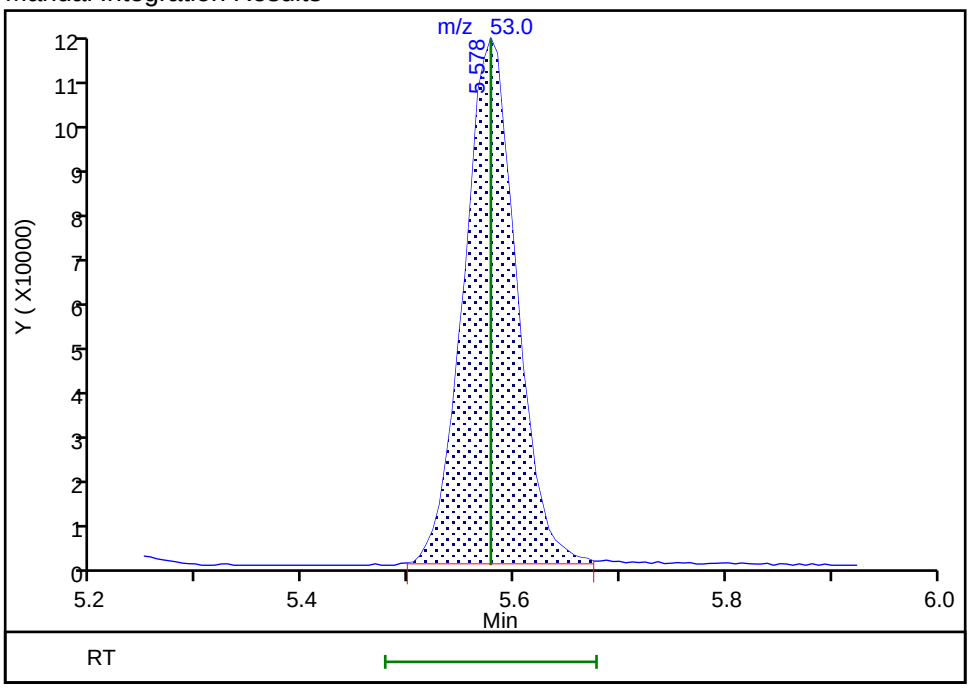
Processing Integration Results

RT: 5.58
Area: 390754
Amount: 41.931942
Amount Units: ug/l



Manual Integration Results

RT: 5.58
Area: 391658
Amount: 42.028950
Amount Units: ug/l



Reviewer: proctore, 07-Jul-2021 21:22:42
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

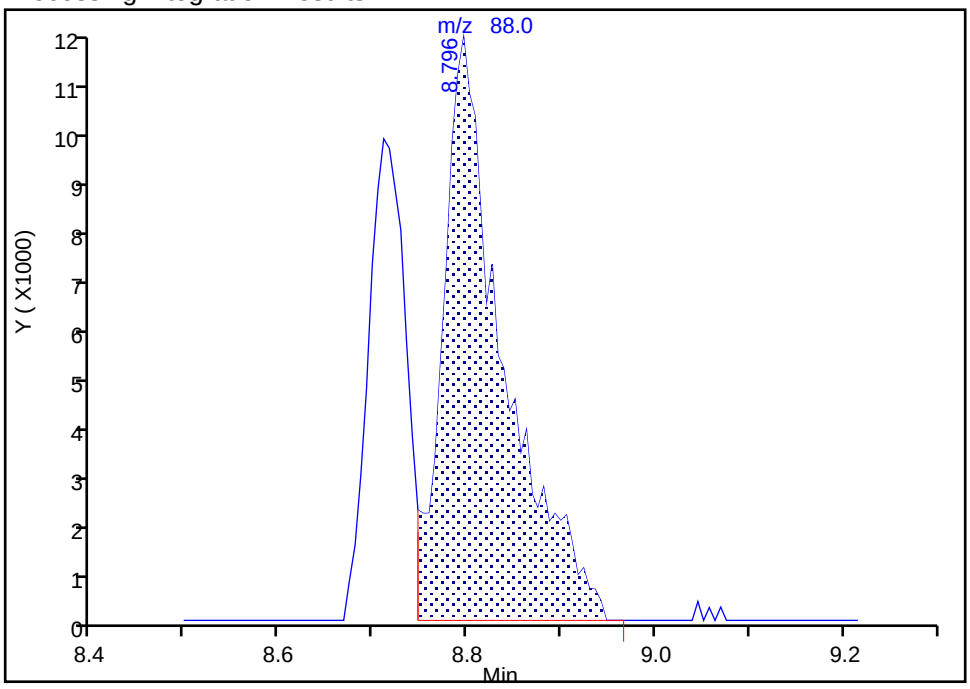
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Injection Date: 07-Jul-2021 20:58:30 Instrument ID: 7159
Lims ID: CCVIS
Client ID:
Operator ID: etp33087 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

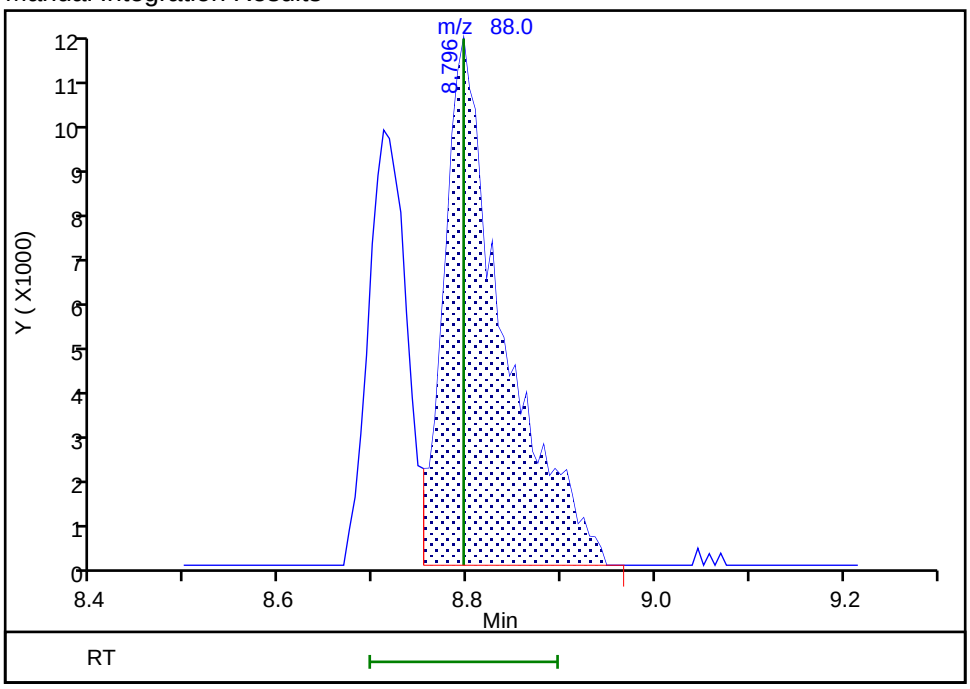
Processing Integration Results

RT: 8.80
Area: 52168
Amount: 905.7321
Amount Units: ug/l



Manual Integration Results

RT: 8.80
Area: 51364
Amount: 891.7732
Amount Units: ug/l



Reviewer: proctore, 07-Jul-2021 21:23:00
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 08-Mar-2021 15:12:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0023524-001
Misc. Info.: BFB
Operator ID: kas02648 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 09-Mar-2021 07:23:24 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1636

First Level Reviewer: campbellme Date: 08-Mar-2021 23:52:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 35 BFB	95	4.916	4.916	0.000	0	385833	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

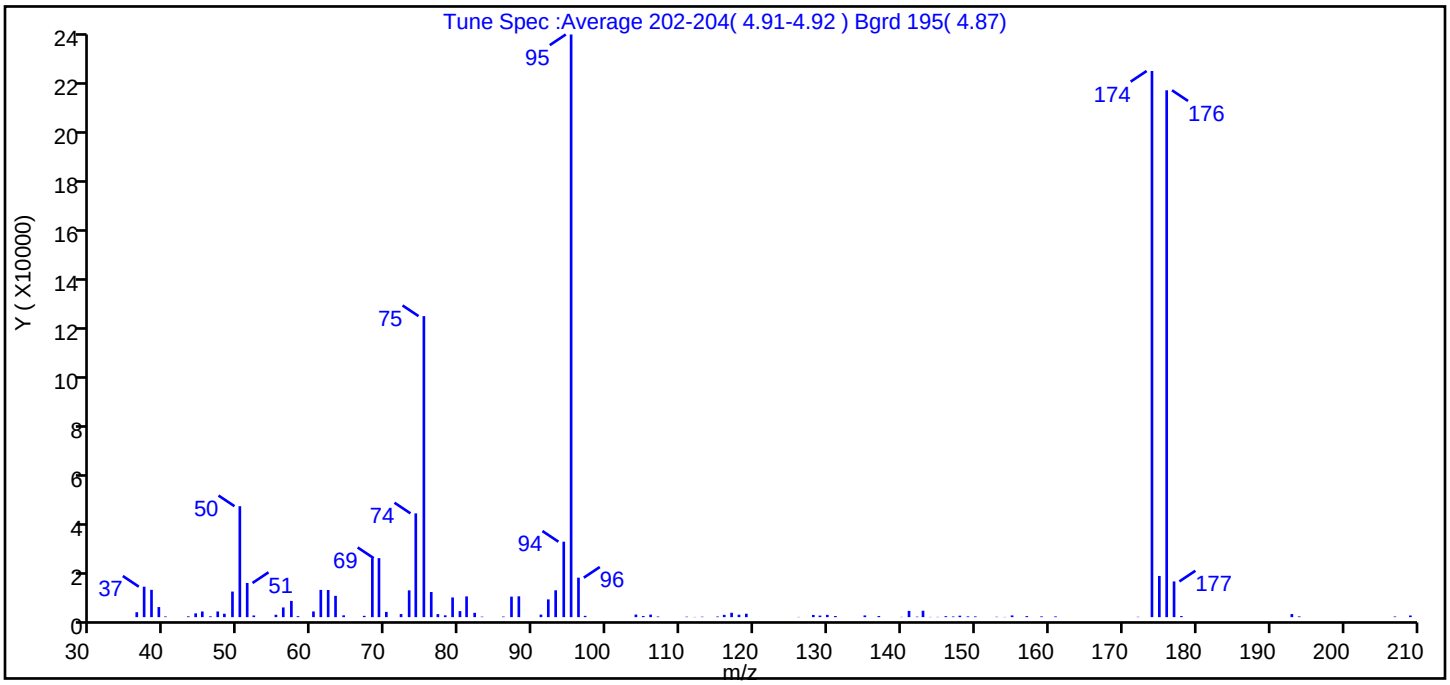
MSV_V_BFB_00004 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08T01.D
Injection Date: 08-Mar-2021 15:12:30 Instrument ID: 7159
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.0
75	30 to 60% of m/z 95	51.7
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	93.7
175	5 to 9% of m/z 174	7.1 (7.5)
176	Greater than 95% but less than 101% of m/z 174	90.4 (96.5)
177	5 to 9% of m/z 176	6.1 (6.8)

Data File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08T01.D\MSVoa_7159.rslt\spectra.d
Injection Date: 08-Mar-2021 15:12:30
Spectrum: Tune Spec :Average 202-204(4.91-4.92) Bgrd 195(4.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 96

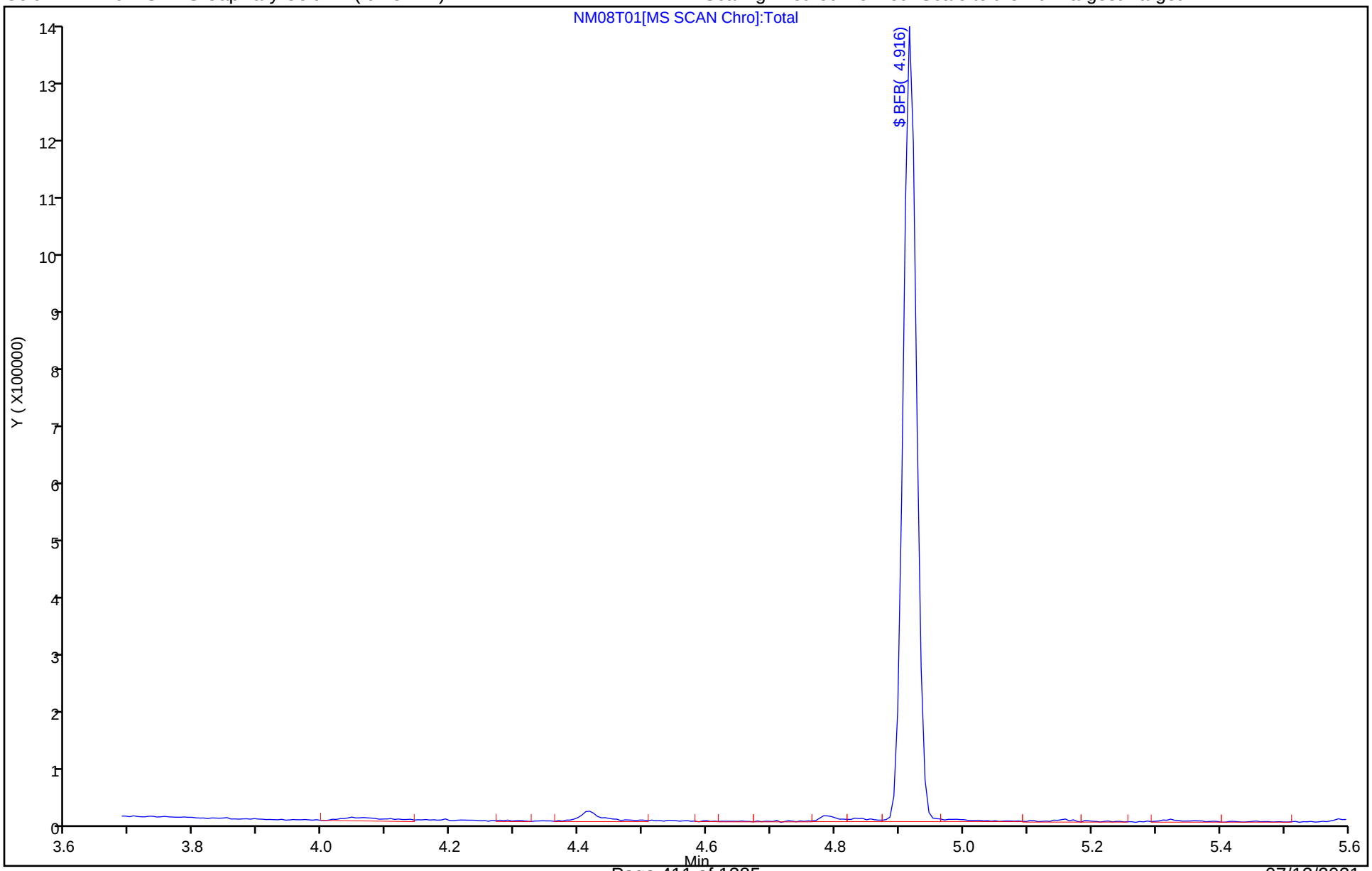
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1998	67.00	528	96.00	15977	143.00	2587
37.00	12334	68.00	23864	97.00	528	144.00	90
38.00	11047	69.00	23888	104.00	1045	145.00	98
39.00	4085	70.00	2113	105.00	438	146.00	390
40.00	275	72.00	1259	106.00	1028	147.00	263
43.00	325	73.00	10846	107.00	242	148.00	590
44.00	1530	74.00	42000	111.00	184	149.00	305
45.00	2285	75.00	121840	112.00	85	150.00	303
46.00	322	76.00	10163	113.00	172	153.00	148
47.00	2299	77.00	1234	115.00	255	154.00	86
48.00	1381	78.00	735	116.00	927	155.00	695
49.00	10353	79.00	7971	117.00	1756	157.00	417
50.00	44904	80.00	2449	118.00	980	159.00	296
51.00	13829	81.00	8394	119.00	1381	161.00	304
52.00	679	82.00	1746	126.00	88	172.00	136
55.00	971	83.00	197	128.00	877	174.00	221056
56.00	3928	86.00	238	129.00	631	175.00	16672
57.00	6570	87.00	8297	130.00	905	176.00	213248
58.00	379	88.00	8438	131.00	464	177.00	14453
60.00	2305	91.00	1025	135.00	695	178.00	423
61.00	11028	92.00	7185	137.00	441	193.00	1260
62.00	10986	93.00	10865	140.00	99	194.00	293
63.00	8615	94.00	30536	141.00	2533	207.00	262
64.00	735	95.00	235840	142.00	206	209.00	661

Report Date: 09-Mar-2021 07:23:24 Chrom Revision: 2.3 08-Mar-2021 11:41:18

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08T01.D				
Injection Date:	08-Mar-2021 15:12:30	Instrument ID:	7159	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02T02.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Jul-2021 08:29:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033446-001				
Misc. Info.:	BFB				
Operator ID:	lcp00895	Instrument ID:	7159		
Method:	\\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Jul-2021 12:15:57	Calib Date:	08-Mar-2021 18:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1648				
First Level Reviewer: papel		Date:	02-Jul-2021 08:39:48		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 35 BFB	95	4.916	4.916	0.000	0	269225	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

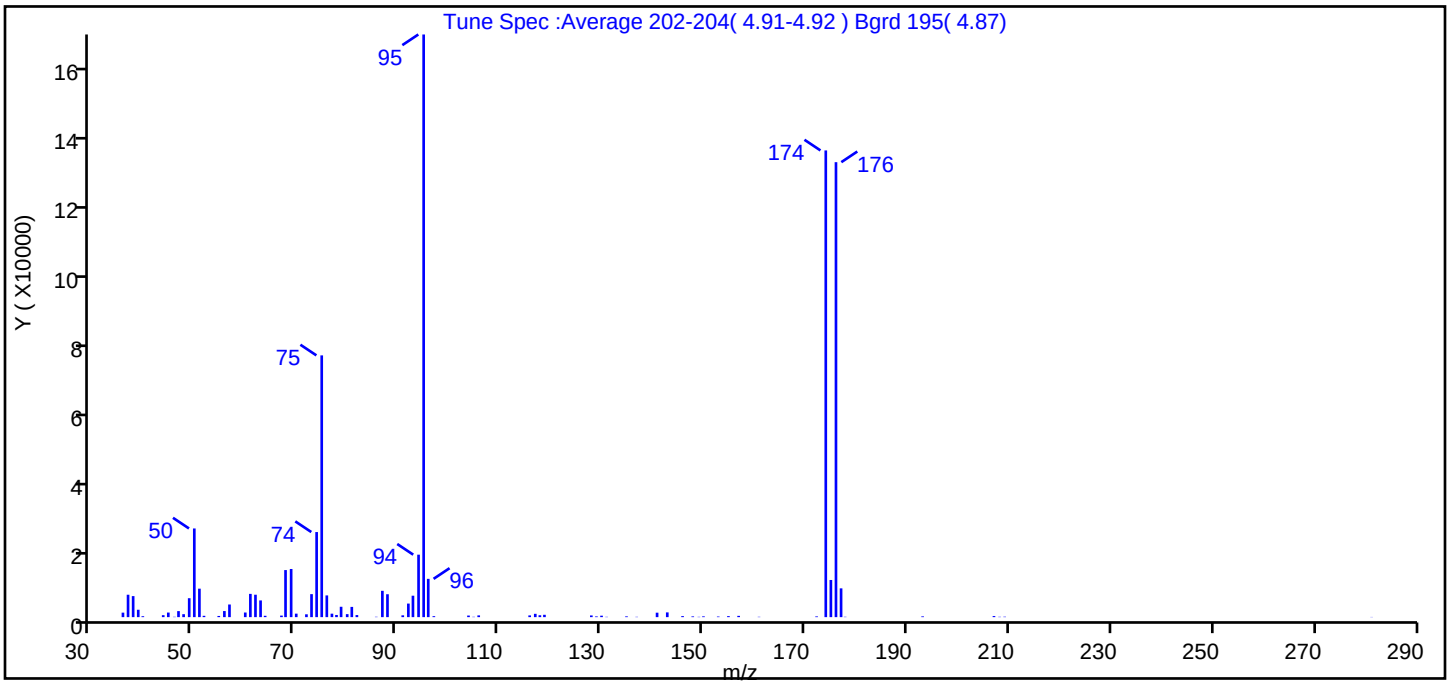
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02T02.D
Injection Date: 02-Jul-2021 08:29:30 Instrument ID: 7159
Lims ID: bfb
Client ID:
Operator ID: lcp00895 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.2
75	30 to 60% of m/z 95	44.9
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.1
175	5 to 9% of m/z 174	6.4 (8.0)
176	Greater than 95% but less than 101% of m/z 174	78.1 (97.5)
177	5 to 9% of m/z 176	4.9 (6.3)

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02T02.D\MSVoa_7159.rslt\spectra.d
Injection Date: 02-Jul-2021 08:29:30
Spectrum: Tune Spec :Average 202-204(4.91-4.92) Bgrd 195(4.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1256	64.00	378	93.00	5973	148.00	206
37.00	6245	67.00	433	94.00	17408	149.00	86
38.00	5863	68.00	13117	95.00	162368	150.00	217
39.00	2059	69.00	13419	96.00	10672	153.00	169
40.00	254	70.00	972	97.00	268	155.00	279
44.00	548	72.00	793	104.00	446	157.00	359
45.00	1277	73.00	6411	105.00	93	161.00	94
46.00	97	74.00	23712	106.00	486	172.00	207
47.00	1681	75.00	72944	116.00	482	174.00	130056
48.00	826	76.00	6056	117.00	926	175.00	10355
49.00	5277	77.00	967	118.00	528	176.00	126784
50.00	24712	78.00	606	119.00	654	177.00	8023
51.00	7935	79.00	2891	128.00	472	178.00	98
52.00	371	80.00	835	129.00	202	193.00	212
55.00	330	81.00	2854	130.00	408	207.00	301
56.00	1697	82.00	579	131.00	87	208.00	97
57.00	3524	86.00	102	135.00	219	209.00	121
60.00	1290	87.00	7335	137.00	89	281.00	54
61.00	6482	88.00	6384	141.00	1241		
62.00	6248	91.00	506	143.00	1322		
63.00	4658	92.00	3782	146.00	287		

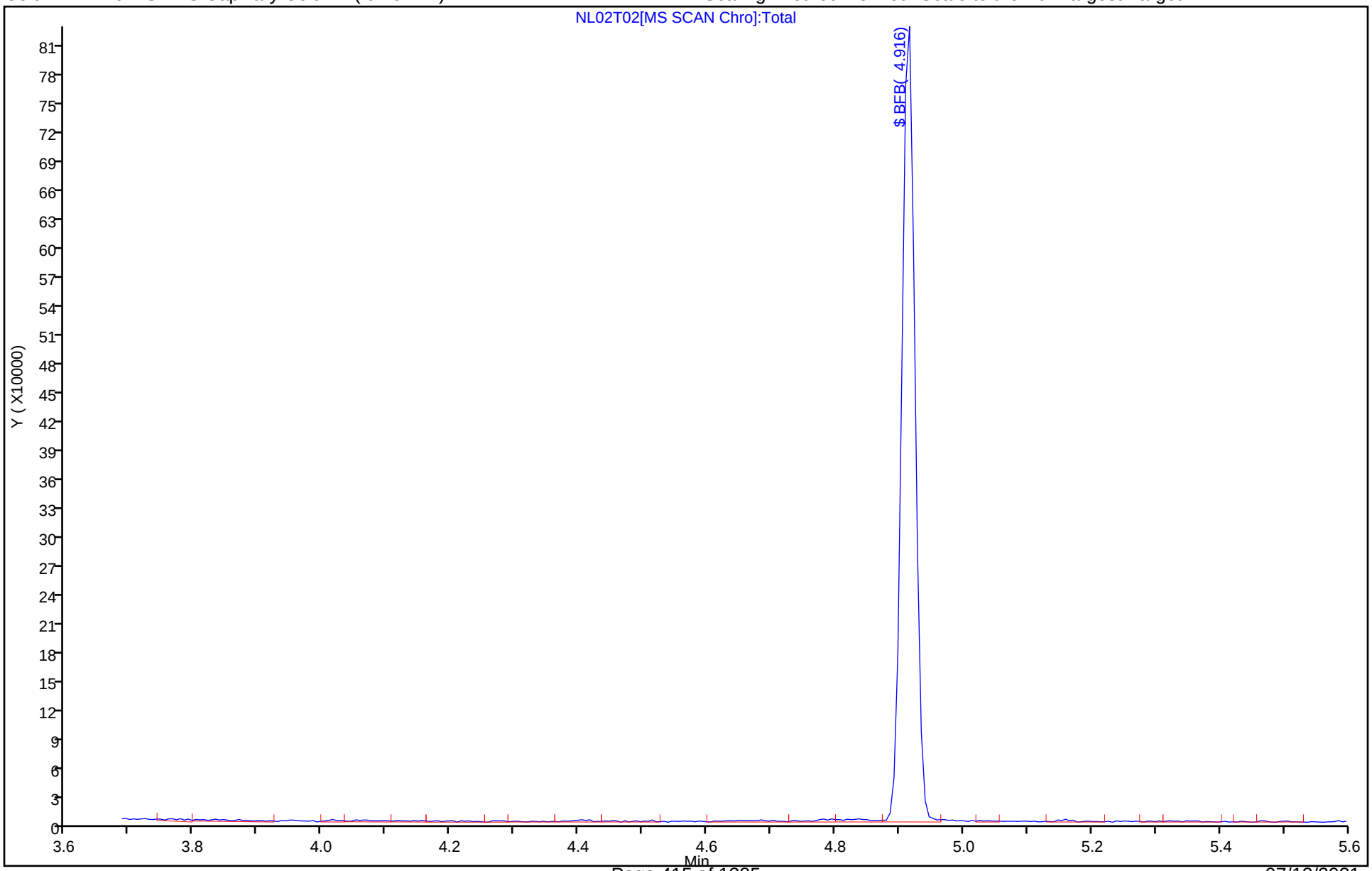
Report Date: 02-Jul-2021 12:15:58 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02T02.D

Injection Date:	02-Jul-2021 08:29:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Jul-2021 08:18:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033575-001				
Misc. Info.:	BFB				
Operator ID:	lcp00895	Instrument ID:	7159		
Method:	\\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 11:12:13	Calib Date:	08-Mar-2021 18:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1686				
First Level Reviewer: papel		Date:	06-Jul-2021 08:34:22		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 35 BFB	95	4.910	4.910	0.000	0	318290	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

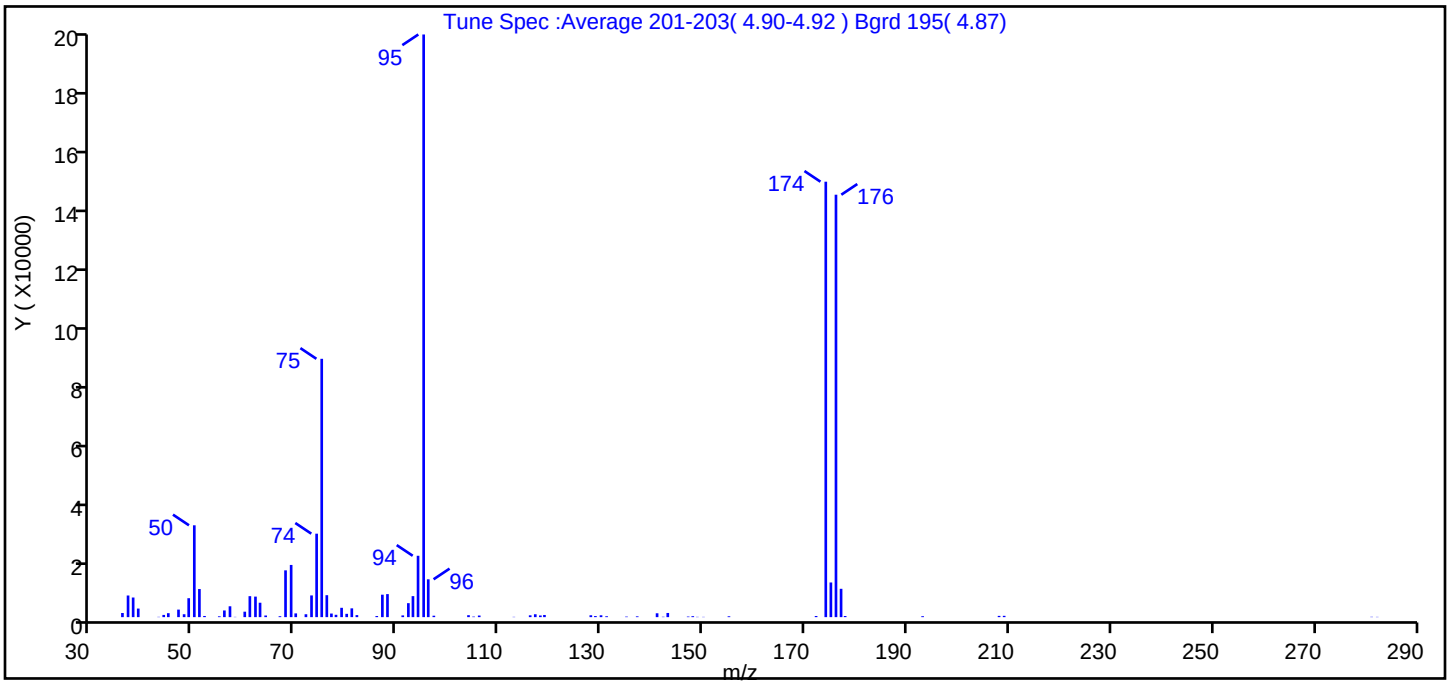
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06T01.D
Injection Date: 06-Jul-2021 08:18:30 Instrument ID: 7159
Lims ID: bfb
Client ID:
Operator ID: lcp00895 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.8
75	30 to 60% of m/z 95	44.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.7
175	5 to 9% of m/z 174	5.9 (8.0)
176	Greater than 95% but less than 101% of m/z 174	72.5 (97.0)
177	5 to 9% of m/z 176	4.9 (6.7)

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06T01.D\MSVoa_7159.rslt\spectra.d
Injection Date: 06-Jul-2021 08:18:30
Spectrum: Tune Spec :Average 201-203(4.90-4.92) Bgrd 195(4.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1364	63.00	4749	91.00	572	137.00	265
37.00	7132	64.00	540	92.00	4607	141.00	1275
38.00	6468	67.00	301	93.00	6924	142.00	129
39.00	2828	68.00	15420	94.00	20224	143.00	1375
43.00	96	69.00	17200	95.00	192000	147.00	190
44.00	734	70.00	1236	96.00	12470	148.00	315
45.00	1306	72.00	955	97.00	472	149.00	94
47.00	2483	73.00	7156	104.00	642	150.00	87
48.00	960	74.00	27504	105.00	180	155.00	278
49.00	6239	75.00	85128	106.00	532	172.00	377
50.00	30264	76.00	7235	113.00	93	174.00	143488
51.00	9263	77.00	1189	116.00	599	175.00	11422
52.00	382	78.00	774	117.00	954	176.00	139200
55.00	273	79.00	3079	118.00	549	177.00	9339
56.00	2203	80.00	1092	119.00	712	178.00	372
57.00	3581	81.00	2899	128.00	617	193.00	306
58.00	86	82.00	667	129.00	360	208.00	415
60.00	1799	86.00	366	130.00	611	209.00	434
61.00	6912	87.00	7400	131.00	291	281.00	110
62.00	6767	88.00	7590	135.00	179	282.00	87

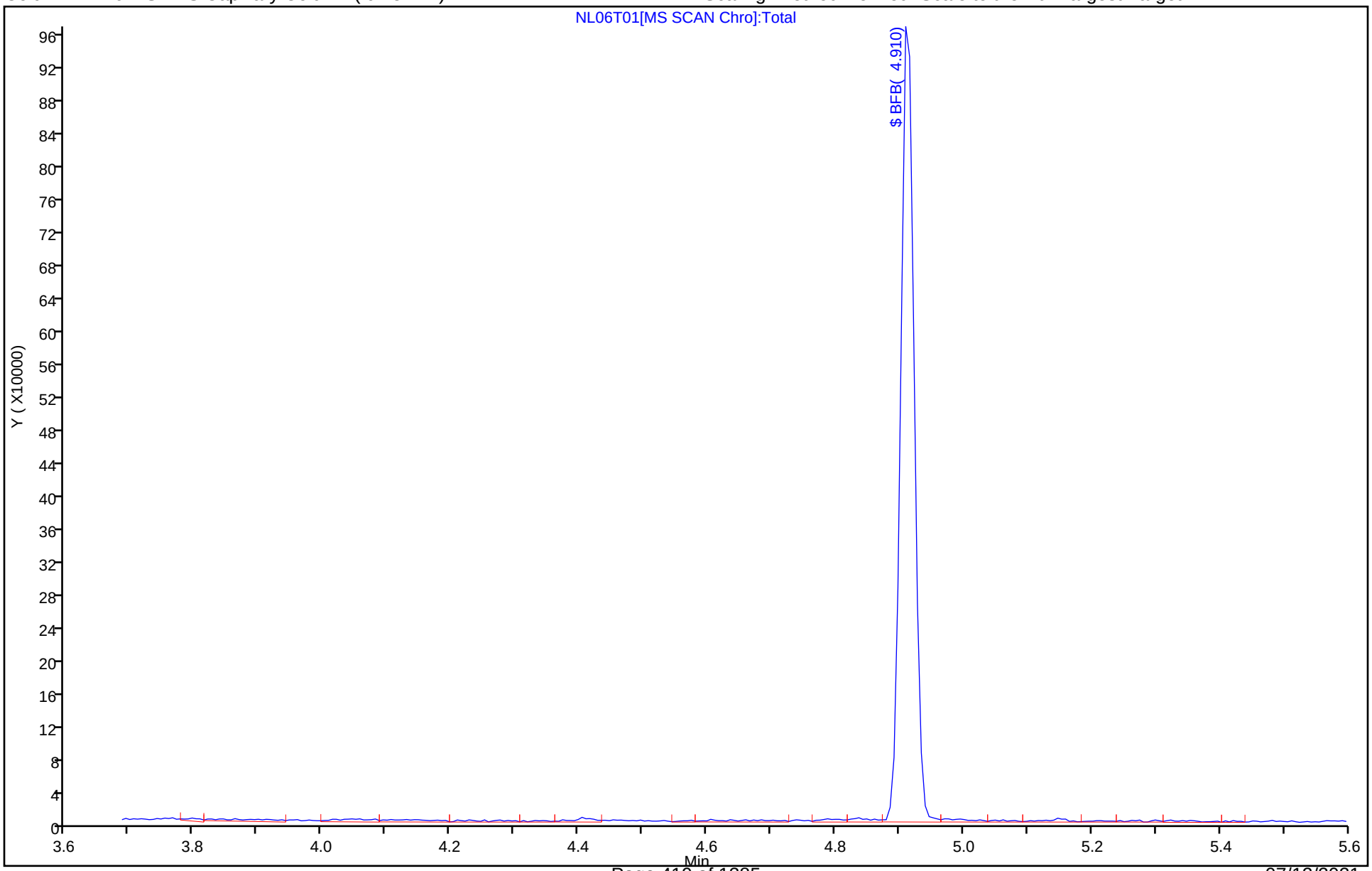
Report Date: 06-Jul-2021 11:12:13 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06T01.D

Injection Date:	06-Jul-2021 08:18:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06T35.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Jul-2021 20:10:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033637-001				
Misc. Info.:	BFB				
Operator ID:	etp33087	Instrument ID:	7159		
Method:	\\chromfs\Lancaster\ChromData\7159\20210706-33637.b\MSVoa_7159.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 23:08:35	Calib Date:	08-Mar-2021 18:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1626				
First Level Reviewer: proctore		Date:	06-Jul-2021 20:21:23		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 35 BFB	95	4.910	4.910	0.000	0	292884	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

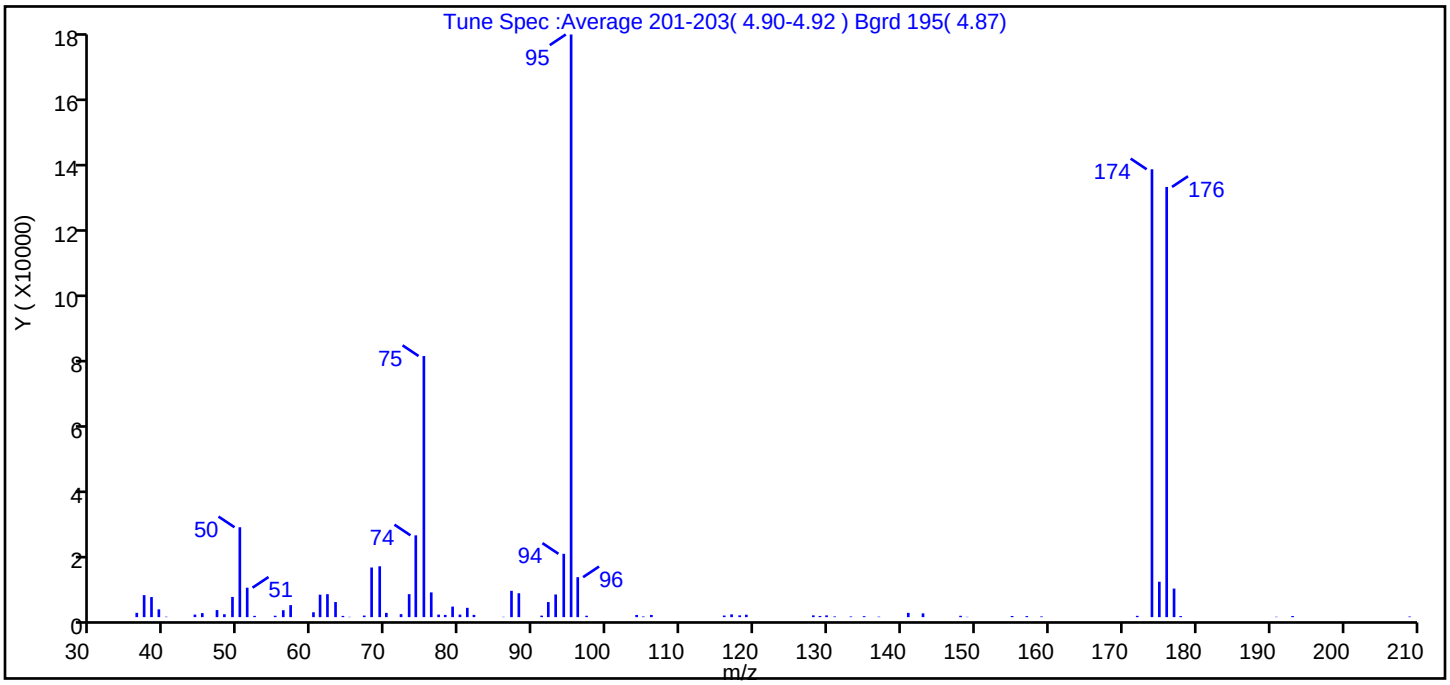
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06T35.D
Injection Date: 06-Jul-2021 20:10:30 Instrument ID: 7159
Lims ID: bfb
Client ID:
Operator ID: etp33087 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.4
75	30 to 60% of m/z 95	44.8
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	76.9
175	5 to 9% of m/z 174	6.1 (7.9)
176	Greater than 95% but less than 101% of m/z 174	73.8 (96.1)
177	5 to 9% of m/z 176	4.9 (6.6)

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06T35.D\MSVoa_7159.rslt\spectra.d
Injection Date: 06-Jul-2021 20:10:30
Spectrum: Tune Spec :Average 201-203(4.90-4.92) Bgrd 195(4.87)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1274	64.00	369	91.00	448	137.00	142
37.00	6503	65.00	87	92.00	4461	141.00	1260
38.00	5938	67.00	468	93.00	6700	143.00	1115
39.00	2311	68.00	14680	94.00	18736	148.00	398
40.00	131	69.00	15045	95.00	172352	149.00	90
44.00	758	70.00	1265	96.00	11822	155.00	341
45.00	1193	72.00	892	97.00	415	157.00	312
47.00	2097	73.00	6802	104.00	645	159.00	203
48.00	859	74.00	24200	105.00	197	172.00	387
49.00	5973	75.00	77240	106.00	649	174.00	132480
50.00	26592	76.00	7319	116.00	474	175.00	10471
51.00	8710	77.00	750	117.00	821	176.00	127256
52.00	380	78.00	662	118.00	540	177.00	8453
55.00	416	79.00	3123	119.00	711	178.00	315
56.00	2049	80.00	761	128.00	522	191.00	108
57.00	3554	81.00	2756	129.00	352	193.00	330
60.00	1444	82.00	672	130.00	520	209.00	177
61.00	6641	86.00	95	131.00	209		
62.00	6793	87.00	7793	133.00	199		
63.00	4469	88.00	7067	135.00	288		

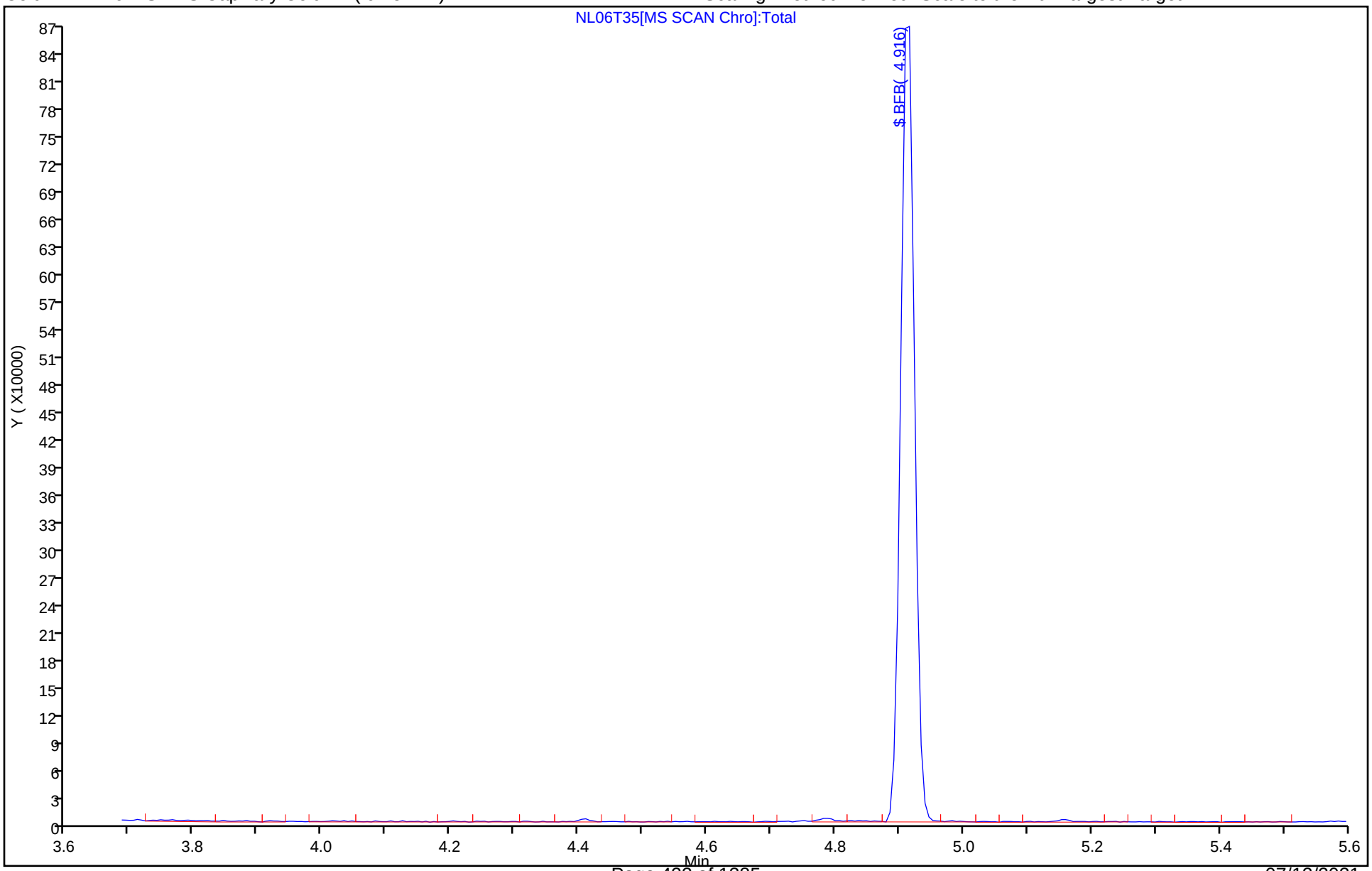
Report Date: 06-Jul-2021 23:08:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06T35.D

Injection Date:	06-Jul-2021 20:10:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07T35.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	07-Jul-2021 20:19:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033734-001				
Misc. Info.:	BFB				
Operator ID:	etp33087	Instrument ID:	7159		
Method:	\\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 22:36:10	Calib Date:	08-Mar-2021 18:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1641				
First Level Reviewer: proctore		Date:	07-Jul-2021 20:31:18		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 35 BFB	95	4.916	4.916	0.000	0	298310	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

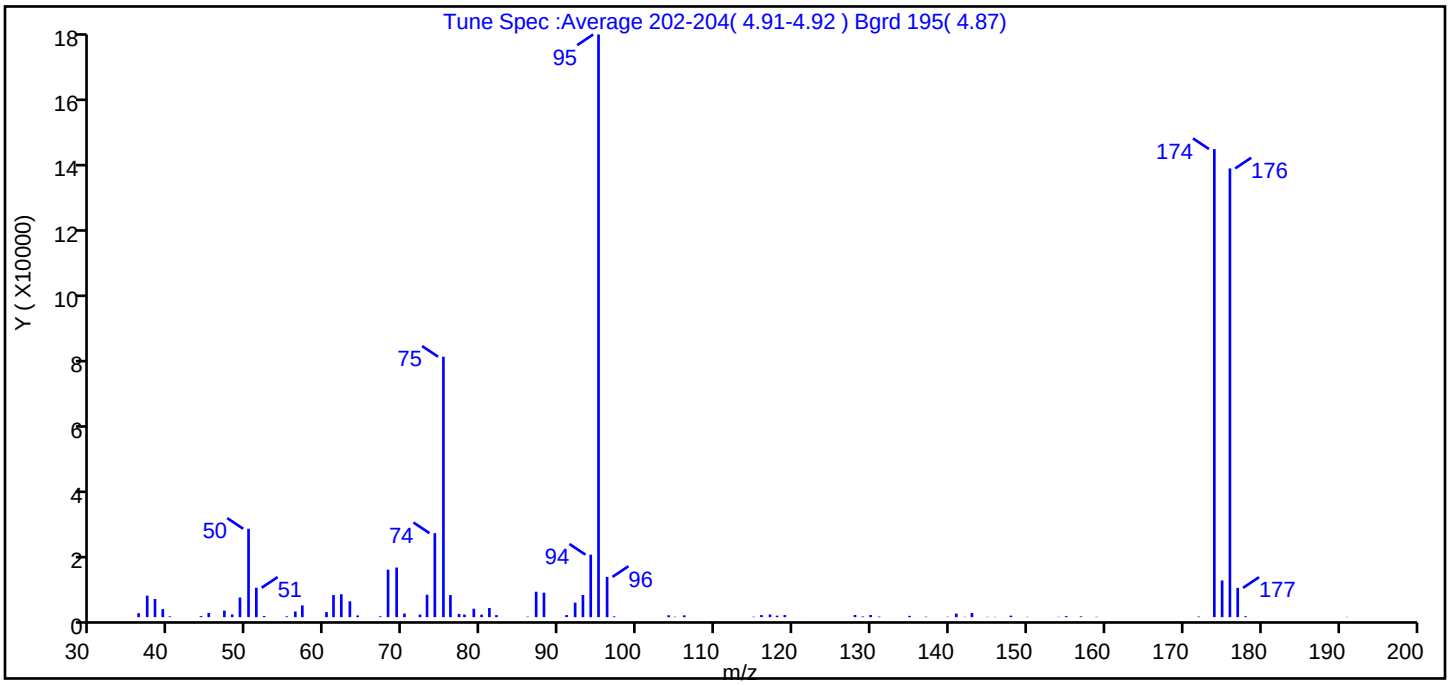
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07T35.D
Injection Date: 07-Jul-2021 20:19:30 Instrument ID: 7159
Lims ID: bfb
Client ID:
Operator ID: etp33087 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.2
75	30 to 60% of m/z 95	44.7
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.3
175	5 to 9% of m/z 174	6.3 (7.8)
176	Greater than 95% but less than 101% of m/z 174	77.0 (95.9)
177	5 to 9% of m/z 176	5.0 (6.5)

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07T35.D\MSVoa_7159.rslt\spectra.d
Injection Date: 07-Jul-2021 20:19:30
Spectrum: Tune Spec :Average 202-204(4.91-4.92) Bgrd 195(4.87)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1214	64.00	520	92.00	4465	140.00	111
37.00	6632	67.00	243	93.00	6811	141.00	1088
38.00	5586	68.00	14601	94.00	19232	142.00	101
39.00	2473	69.00	15269	95.00	179328	143.00	1279
40.00	233	70.00	1089	96.00	12385	145.00	95
44.00	312	72.00	791	97.00	243	146.00	83
45.00	1284	73.00	6892	104.00	574	148.00	455
47.00	2002	74.00	25840	105.00	122	150.00	90
48.00	827	75.00	80152	106.00	552	154.00	90
49.00	6045	76.00	6802	115.00	128	155.00	315
50.00	27200	77.00	995	116.00	629	157.00	228
51.00	9050	78.00	790	117.00	811	159.00	107
52.00	369	79.00	2599	118.00	464	172.00	179
55.00	241	80.00	750	119.00	647	174.00	144064
56.00	1745	81.00	2815	128.00	656	175.00	11290
57.00	3610	82.00	625	129.00	212	176.00	138112
60.00	1552	86.00	151	130.00	665	177.00	9014
61.00	6805	87.00	7821	131.00	183	178.00	288
62.00	7048	88.00	7529	135.00	398	191.00	84
63.00	4866	91.00	638	137.00	136		

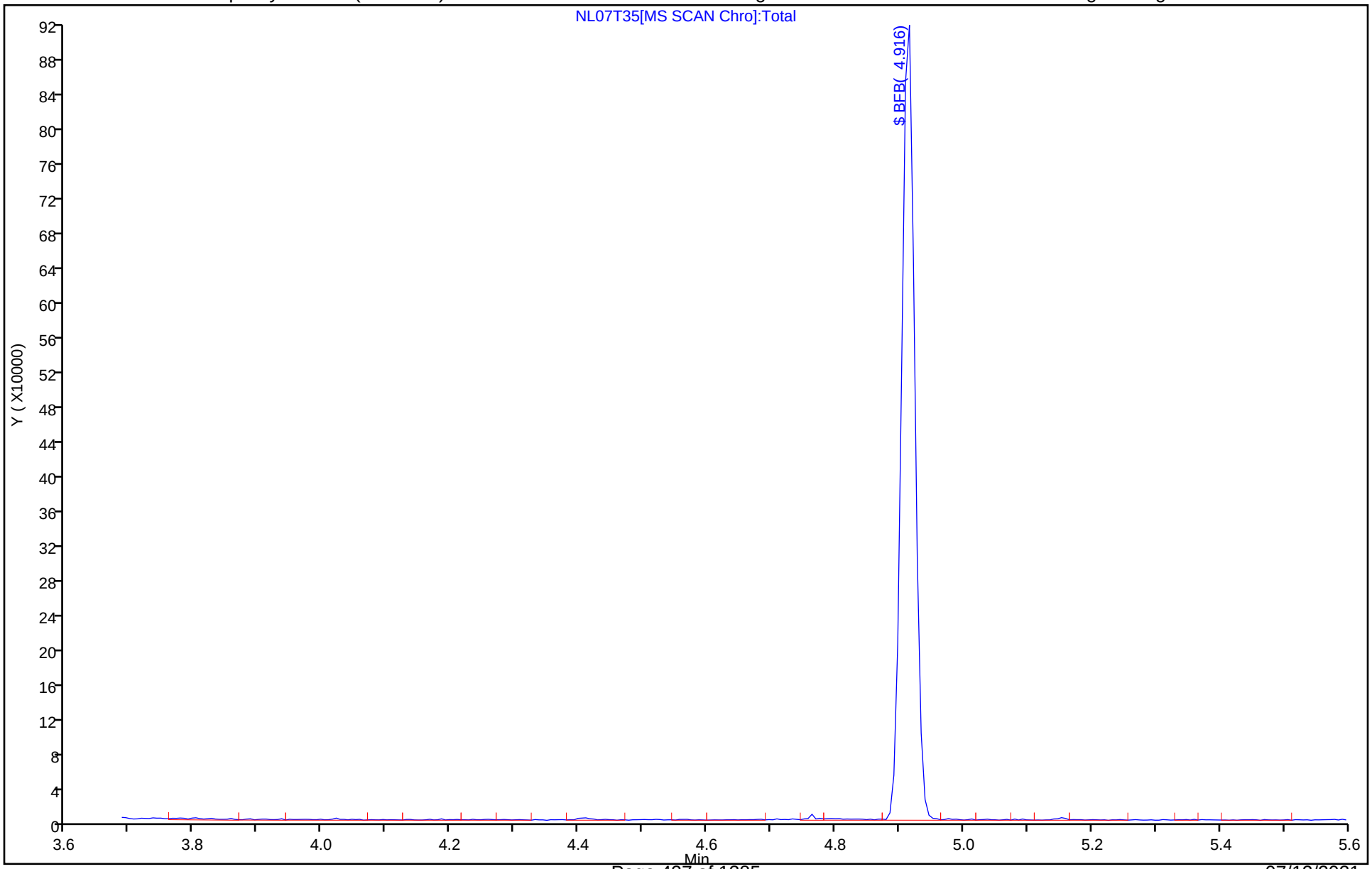
Report Date: 07-Jul-2021 22:36:10 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07T35.D

Injection Date:	07-Jul-2021 20:19:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-144661/7

Matrix: Water Lab File ID: NL02B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 10:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 144661 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Jul-2021 10:39:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-007
Misc. Info.: MB
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 02-Jul-2021 12:15:59 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: papel Date: 02-Jul-2021 11:42:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.170					ND	
2 Chlorodifluoromethane	51		1.389					ND	
3 2-Chloro-1,1,1-Trifluoroethane	118		1.389					ND	
4 Ethyl ether	59		1.926					ND	
5 Dichlorodifluoromethane	85		2.013					ND	
6 Chloromethane	50		2.219					ND	
7 Acetonitrile	41		2.334					ND	
8 Vinyl chloride	62		2.341					ND	
9 Butadiene	39		2.353					ND	
10 Bromomethane	94		2.682					ND	
11 Chloroethane	64		2.785					ND	
12 Dichlorofluoromethane	67		3.023					ND	
13 Trichlorofluoromethane	101		3.083					ND	
14 Vinyl acetate	43		3.115					ND	
15 Pentane	43		3.150					ND	
16 Ethanol	45		3.205					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.442					ND	
18 Acrolein	56		3.540					ND	
19 Ethyl acetate	43		3.675					ND	
20 1,1-Dichloroethene	96		3.686					ND	
21 Acetone	58		3.716					ND	
22 112TCTFE	101		3.722					ND	
23 Isopropyl alcohol	45		3.880					ND	
24 Iodomethane	142		3.892					ND	
25 Carbon disulfide	76		4.008					ND	
26 Methyl acetate	43		4.142					ND	
27 3-Chloro-1-propene	41		4.184					ND	
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.379	-0.006	38	261598	250.0	250.0	M
28 Methylene Chloride	84		4.379					ND	
31 2-Methyl-2-propanol	59		4.495					ND	
30 Isopropyl acetate	43		4.535					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		4.708					ND	
33 Methyl tert-butyl ether	73		4.781					ND	
34 trans-1,2-Dichloroethene	96		4.805					ND	
36 Hexane	57		5.231					ND	
37 1,1-Dichloroethane	63		5.462					ND	
39 Isopropyl ether	45		5.517					ND	
38 n-Propyl acetate	61		5.529					ND	
40 2-Chloro-1,3-butadiene	53		5.572					ND	
41 Tert-butyl ethyl ether	59		6.052					ND	
S 42 1,2-Dichloroethene, Total	100		6.155					ND	7
43 2-Butanone (MEK)	43		6.247					ND	
44 cis-1,2-Dichloroethene	96		6.302					ND	
45 2,2-Dichloropropane	77		6.308					ND	
46 Propionitrile	54		6.332					ND	
47 Methacrylonitrile	67		6.557					ND	
48 Chlorobromomethane	128		6.636					ND	
49 Tetrahydrofuran	71		6.636					ND	
50 Chloroform	83		6.776					ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	6.995	-0.006	93	220964	50.0	43.8	
52 1,1,1-Trichloroethane	97		7.013					ND	
53 3,4-Dichloro-1-butene	75		7.108					ND	
54 Cyclohexane	56		7.117					ND	
56 1,1-Dichloropropene	75		7.226					ND	
55 Carbon tetrachloride	117		7.226					ND	
57 n-Butyl acetate	43		7.333					ND	
58 Isobutyl alcohol	41		7.342					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	61649	50.0	50.0	
60 Benzene	78		7.488					ND	
61 1,2-Dichloroethane	62		7.555					ND	7
62 Tert-amyl methyl ether	73		7.670					ND	
* 64 Fluorobenzene (IS)	96	7.883	7.895	-0.012	99	964365	50.0	50.0	
63 t-Amyl alcohol	73	7.883	7.895	-0.012	1	6497		NC	
65 n-Heptane	43		7.902					ND	
66 n-Butanol	56		8.230					ND	
67 Trichloroethene	95		8.376					ND	
68 Methylcyclohexane	83		8.692					ND	
70 1,2-Dichloropropane	63		8.711					ND	
69 2-ethoxy-2-methyl butane	87		8.717					ND	
71 Methyl methacrylate	69		8.784					ND	
72 1,4-Dioxane	88		8.790					ND	
74 Dibromomethane	93		8.820					ND	
73 cis-1,4-Dichloro-2-butene	88		8.833					ND	
75 Dichlorobromomethane	83		9.057					ND	
76 2,3,4-Trichlorobutene	109		9.296					ND	
77 2-Nitropropane	41		9.313					ND	
78 2-Chloroethyl vinyl ether	63		9.404					ND	
79 cis-1,3-Dichloropropene	75		9.593					ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.751					ND	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	968872	50.0	53.6	
82 Toluene	92		9.970					ND	
S 83 1,3-Dichloropropene, Total	100		10.060					ND	7
84 trans-1,3-Dichloropropene	75		10.219					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Ethyl methacrylate	69		10.274				ND		
86 1,1,2-Trichloroethane	97		10.420				ND		
87 Tetrachloroethene	166		10.517				ND		
88 1,3-Dichloropropane	76		10.584				ND		
89 2-Hexanone	43		10.627				ND		
90 Chlorodibromomethane	129		10.803				ND		
91 Ethylene Dibromide	107		10.913				ND		
S 92 Xylenes, Total	106		11.245				ND		7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	726156	50.0	50.0	
94 1-Chlorohexane	91		11.345				ND		U
95 Chlorobenzene	112		11.363				ND		
96 1,1,1,2-Tetrachloroethane	131		11.448				ND		
97 Ethylbenzene	91		11.448				ND		
98 m-Xylene & p-Xylene	106		11.564				ND		
99 o-Xylene	106		11.892				ND		
100 Styrene	104		11.905				ND		
101 Bromoform	173		12.069				ND		
102 Isopropylbenzene	105		12.190				ND		
103 Cyclohexanone	55		12.263				ND		
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	343307	50.0	47.7	
105 1,1,2,2-Tetrachloroethane	83		12.434				ND		
106 Bromobenzene	156		12.458				ND		
107 trans-1,4-Dichloro-2-butene	53		12.458				ND		
108 1,2,3-Trichloropropane	110		12.482				ND		
109 N-Propylbenzene	91		12.519				ND		
110 2-Chlorotoluene	126		12.598				ND		
111 1,3,5-Trimethylbenzene	105		12.653				ND		
112 4-Chlorotoluene	126		12.689				ND		
113 tert-Butylbenzene	134		12.896				ND		
114 Pentachloroethane	167		12.932				ND		
115 1,2,4-Trimethylbenzene	105		12.939				ND		
116 sec-Butylbenzene	105		13.060				ND		
117 1,3-Dichlorobenzene	146		13.164				ND		
118 4-Isopropyltoluene	119		13.170				ND		
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.219	0.000	94	394881	50.0	50.0	
120 1,4-Dichlorobenzene	146		13.237				ND		
121 1,2,3-Trimethylbenzene	105		13.243				ND		
122 Benzyl chloride	91		13.310				ND		7
123 1,3-Diethylbenzene	119		13.371				ND		
124 p-Diethylbenzene	119		13.444				ND		
125 n-Butylbenzene	92		13.462				ND		
126 1,2-Dichlorobenzene	146		13.498				ND		
127 o-diethylbenzene	119		13.511				ND		
128 Hexachloroethane	201		13.560				ND		
129 1,2-Dibromo-3-Chloropropane	75		14.040				ND		
130 1,3,5-Trichlorobenzene	180		14.168				ND		
131 1,2,4-Trichlorobenzene	180		14.593				ND		
132 Hexachlorobutadiene	225		14.673				ND		
133 Naphthalene	128		14.776				ND		7
134 1,2,3-Trichlorobenzene	180		14.922				ND		
135 2-Methylnaphthalene	142		15.579				ND		
136 C4-C10	1		0.000				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
182 Acetonitrile TIC	1		0.000					ND	
181 Ethyl ether TIC	1		0.000					ND	
198 Chlorodifluoromethane TIC	1		0.000					ND	
197 Ethyl Acetate TIC	1		0.000					ND	
196 Chloroacetaldehyde TIC	1		0.000					ND	
185 Hexachloroethane TIC	1		0.000					ND	
199 Vinyl acetate (TIC)	1		0.000					ND	
195 2-Picoline (TIC)	1		0.000					ND	
193 Isooctane TIC	1		0.000					ND	
192 Malononitrile (TIC)	1		0.000					ND	
191 1-Chlorobutane TIC	1		0.000					ND	
190 Propionaldehyde TIC	1		0.000					ND	
189 2-Pentanone (TIC)	1		0.000					ND	
188 Bromoethane TIC	1		0.000					ND	
187 Nitrobenzene TIC	1		0.000					ND	
194 Epibromohydrin TIC	1		0.000					ND	
186 1,3-Dichlorobutene-2(total) TIC	1		0.000					ND	
183 Propane TIC	1		0.000					ND	
184 2-Chloroethanol TIC	1		0.000					ND	
210 Bromoacetone (TIC)	1		0.000					ND	
217 Ethyl acrylate TIC	1		0.000					ND	
216 Pentachloroethane TIC	1		0.000					ND	
215 1-Bromo-2-chloroethane TIC	1		0.000					ND	
214 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
213 Chloral hydrate (TIC)	1		0.000					ND	
212 Methanol TIC	1		0.000					ND	
211 2,3-Dibromopropene TIC	1		0.000					ND	
209 Paraldehyde TIC	1		0.000					ND	
201 Vinyl bromide TIC	1		0.000					ND	
178 Propargyl alcohol TIC	1		0.000					ND	
207 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
206 2-Bromo-3-chloropropene TIC	1		0.000					ND	
205 Pentafluorobenzene TIC	1		0.000					ND	
204 n-butyl Acetate TIC	1		0.000					ND	
203 Epichlorohydrin TIC	1		0.000					ND	
202 1-Bromopropane TIC	1		0.000					ND	
200 Allyl Alcohol TIC	1		0.000					ND	
180 Propanol TIC	1		0.000					ND	
179 Monochloroacetic acid TIC	1		0.000					ND	
138 Ethyl bromide	1		0.000					ND	
208 Ethylene oxide TIC	1		0.000					ND	
137 Chloroacetonitrile	1		0.000					ND	
147 1-Bromo-2-chloroethane	1		0.000					ND	
155 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
146 C6-C12	1		0.000					ND	
143 3-chloro-1-Butene	1		0.000					ND	
142 C6-C10	1		0.000					ND	
141 Methyl acrylate	1		0.000					ND	
140 tert-Butyl Formate	1		0.000					ND	
139 1,3-Divinylbenzene	1		0.000					ND	
157 1-Chlorobutane	1		0.000					ND	
169 Butane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
168 Dodecane	57		0.000					ND	
165 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
156 1,4-Divinylbenzene	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
153 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
152 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
150 Diethoxymethane	1		0.000					ND	
149 Propene oxide TIC	1		0.000					ND	
148 C5-C12	1		0.000					ND	
176 beta-Propiolactone TIC	1		0.000					ND	
175 n-Propylamine (TIC)	1		0.000					ND	
174 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
173 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
172 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
171 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
170 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
158 C4-C12	1		0.000					ND	
177 2-Bromoethanol TIC	1		0.000					ND	
167 n-Decane	57		0.000					ND	
166 Ethyl acrylate	55		0.000					ND	
163 Methylal	1		0.000					ND	
S 162 divinyl benzene	1		0.000					ND	7
161 1,3-Dichlorobutene-2(total)	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
218 Ethanol TIC	1		0.000					ND	
219 o-toluidine TIC	1		0.000					ND	
S 220 Total BTEX	1		0.000					ND	
221 2-Methylbutane TIC	1		0.000					ND	
222 Tetranitromethane TIC	1		0.000					ND	
S 144 Total Diethylbenzene	1		0.000					ND	7
224 Butane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

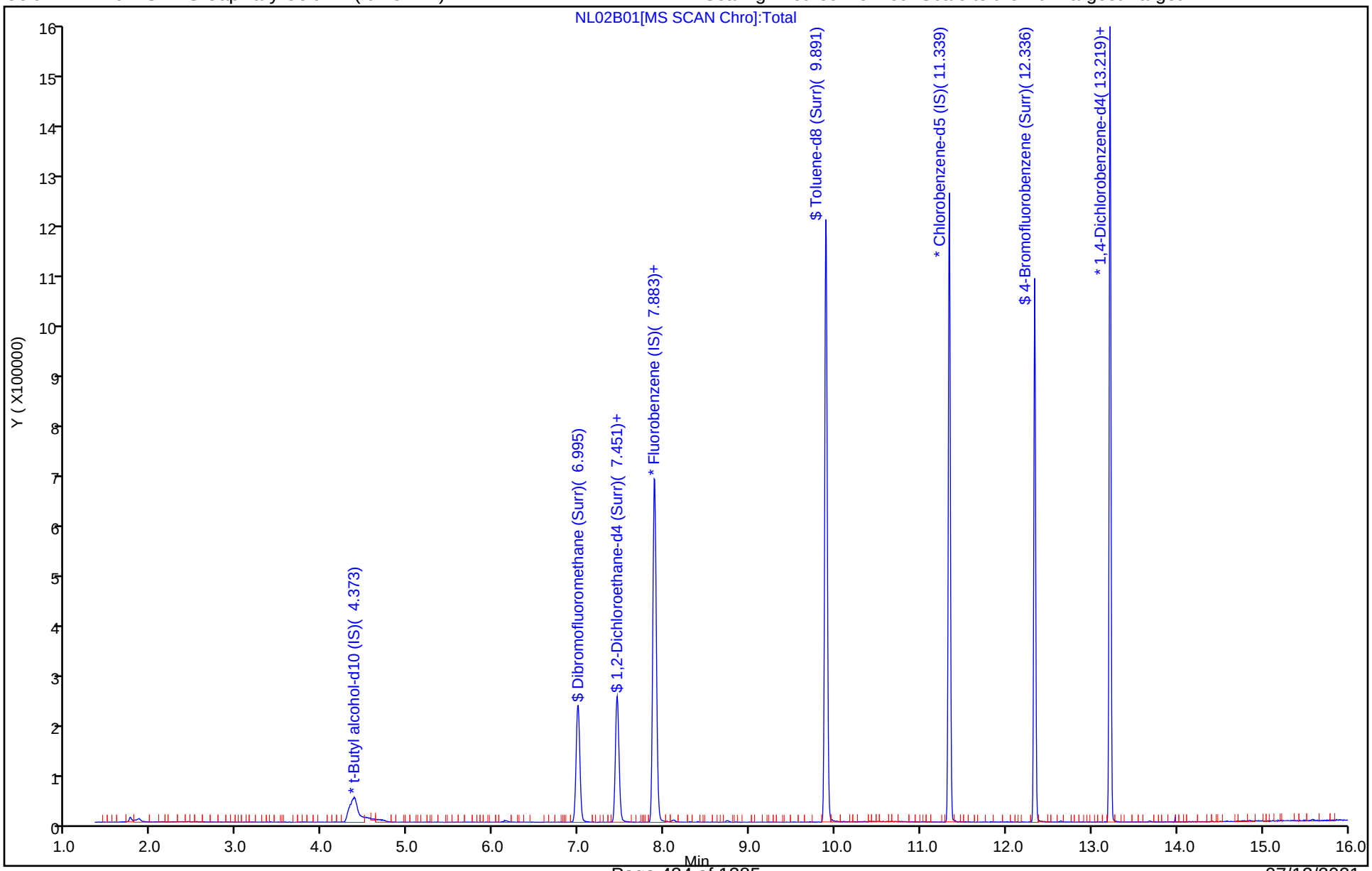
Report Date: 02-Jul-2021 12:16:15 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02B01.D

Injection Date:	02-Jul-2021 10:39:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

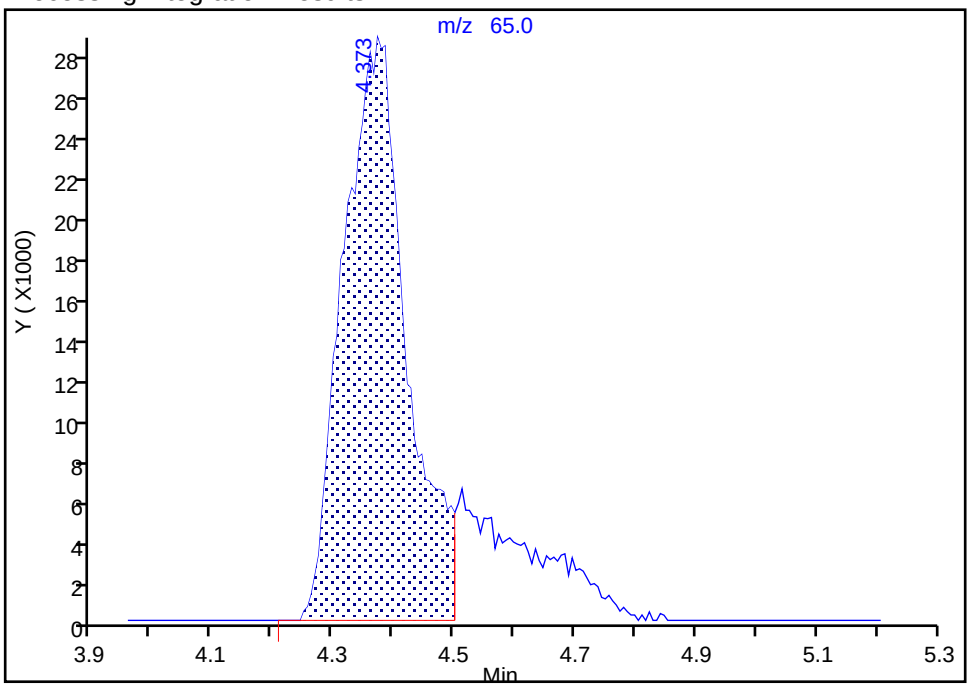
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Injection Date: 02-Jul-2021 10:39:30 Instrument ID: 7159
Lims ID: MB
Client ID:
Operator ID: lcp00895 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_7159 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 29 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

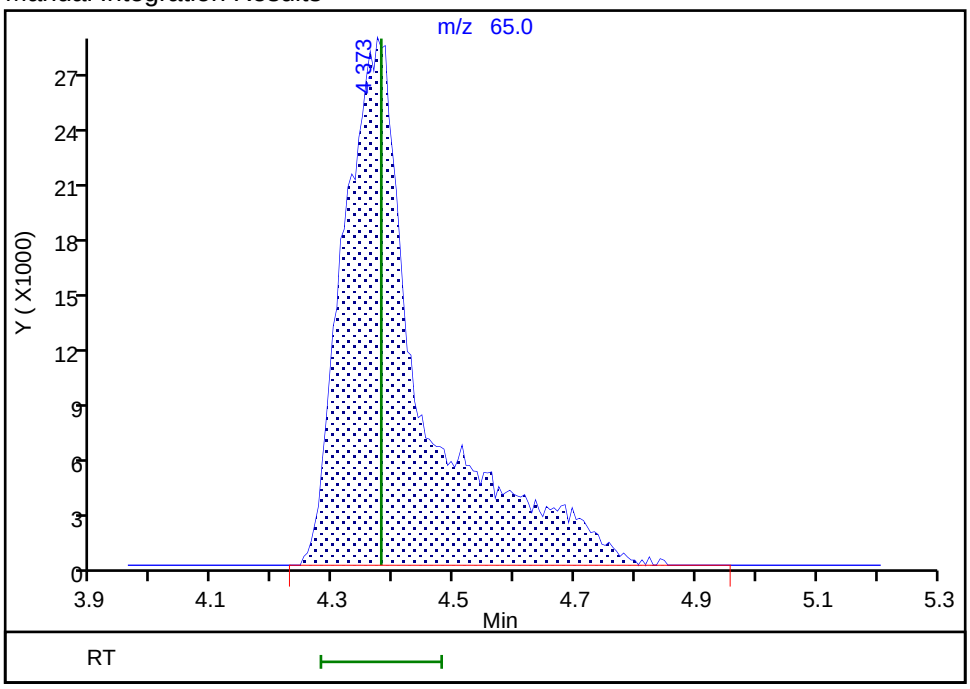
Processing Integration Results

RT: 4.37
Area: 207487
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.37
Area: 261598
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 02-Jul-2021 11:42:28
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145203/7

Matrix: Water Lab File ID: NL06B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 10:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Jul-2021 10:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-007
Misc. Info.: MB
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 11:12:14 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: papel Date: 06-Jul-2021 11:11:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.170					ND	
2 Chlorodifluoromethane	51		1.389					ND	
3 2-Chloro-1,1,1-Trifluoroethane	118		1.389					ND	
4 Ethyl ether	59		1.926					ND	
5 Dichlorodifluoromethane	85		2.019					ND	
6 Chloromethane	50		2.225					ND	
7 Acetonitrile	41		2.334					ND	
8 Vinyl chloride	62		2.341					ND	
9 Butadiene	39		2.353					ND	
10 Bromomethane	94		2.694					ND	
11 Chloroethane	64		2.785					ND	
12 Dichlorofluoromethane	67		3.028					ND	
13 Trichlorofluoromethane	101		3.089					ND	
14 Vinyl acetate	43		3.115					ND	
15 Pentane	43		3.150					ND	
16 Ethanol	45		3.223					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.448					ND	
18 Acrolein	56		3.539					ND	
19 Ethyl acetate	43		3.675					ND	
20 1,1-Dichloroethene	96		3.692					ND	
21 Acetone	58		3.716					ND	
22 112TCTFE	101		3.722					ND	
23 Isopropyl alcohol	45		3.874					ND	
24 Iodomethane	142		3.898					ND	
25 Carbon disulfide	76		4.008					ND	
26 Methyl acetate	43		4.154					ND	
27 3-Chloro-1-propene	41		4.184					ND	
* 29 t-Butyl alcohol-d10 (IS)	65	4.355	4.373	-0.018	38	270430	250.0	250.0	
28 Methylene Chloride	84		4.385					ND	
31 2-Methyl-2-propanol	59		4.501					ND	
30 Isopropyl acetate	43		4.535					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		4.714					ND	
33 Methyl tert-butyl ether	73		4.787					ND	
34 trans-1,2-Dichloroethene	96		4.805					ND	
36 Hexane	57		5.231					ND	
37 1,1-Dichloroethane	63		5.468					ND	
39 Isopropyl ether	45		5.517					ND	
38 n-Propyl acetate	61		5.529					ND	
40 2-Chloro-1,3-butadiene	53		5.577					ND	
41 Tert-butyl ethyl ether	59		6.052					ND	
S 42 1,2-Dichloroethene, Total	100		6.155					ND	7
43 2-Butanone (MEK)	43		6.247					ND	
44 cis-1,2-Dichloroethene	96		6.301					ND	
45 2,2-Dichloropropane	77		6.320					ND	
46 Propionitrile	54		6.332					ND	
47 Methacrylonitrile	67		6.557					ND	
48 Chlorobromomethane	128		6.636					ND	
49 Tetrahydrofuran	71		6.636					ND	
50 Chloroform	83		6.782					ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	7.001	-0.012	93	233845	50.0	45.2	
52 1,1,1-Trichloroethane	97		7.019					ND	
53 3,4-Dichloro-1-butene	75		7.108					ND	
54 Cyclohexane	56		7.123					ND	
56 1,1-Dichloropropene	75		7.226					ND	
55 Carbon tetrachloride	117		7.226					ND	
57 n-Butyl acetate	43		7.333					ND	
58 Isobutyl alcohol	41		7.342					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	92	63844	50.0	50.5	
60 Benzene	78		7.494					ND	
61 1,2-Dichloroethane	62		7.561					ND	7
62 Tert-amyl methyl ether	73		7.676					ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	989241	50.0	50.0	
63 t-Amyl alcohol	73	7.889	7.895	-0.006	34	11344		NC	
65 n-Heptane	43		7.901					ND	
66 n-Butanol	56		8.230					ND	
67 Trichloroethene	95		8.376					ND	
68 Methylcyclohexane	83		8.692					ND	
70 1,2-Dichloropropane	63		8.710					ND	
69 2-ethoxy-2-methyl butane	87		8.710					ND	
71 Methyl methacrylate	69		8.783					ND	
72 1,4-Dioxane	88		8.790					ND	
74 Dibromomethane	93		8.826					ND	
73 cis-1,4-Dichloro-2-butene	88		8.833					ND	
75 Dichlorobromomethane	83		9.057					ND	
76 2,3,4-Trichlorobutene	109		9.296					ND	
77 2-Nitropropane	41		9.313					ND	
78 2-Chloroethyl vinyl ether	63		9.404					ND	
79 cis-1,3-Dichloropropene	75		9.593					ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.751					ND	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	1009727	50.0	53.7	
82 Toluene	92		9.970					ND	
S 83 1,3-Dichloropropene, Total	100		10.060					ND	7
84 trans-1,3-Dichloropropene	75		10.219					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Ethyl methacrylate	69		10.274				ND		
86 1,1,2-Trichloroethane	97		10.426				ND		
87 Tetrachloroethene	166		10.517				ND		
88 1,3-Dichloropropane	76		10.584				ND		
89 2-Hexanone	43		10.627				ND		
90 Chlorodibromomethane	129		10.797				ND		
91 Ethylene Dibromide	107		10.913				ND		
S 92 Xylenes, Total	106		11.245				ND		7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	755569	50.0	50.0	
94 1-Chlorohexane	91		11.345				ND		U
95 Chlorobenzene	112		11.363				ND		
96 1,1,1,2-Tetrachloroethane	131		11.448				ND		
97 Ethylbenzene	91		11.448				ND		
98 m-Xylene & p-Xylene	106		11.564				ND		
99 o-Xylene	106		11.892				ND		
100 Styrene	104		11.904				ND		
101 Bromoform	173		12.069				ND		
102 Isopropylbenzene	105		12.190				ND		
103 Cyclohexanone	55		12.269				ND		
$ 104 4-Bromofluorobenzene (Surr)	95	12.337	12.336	0.000	89	357514	50.0	47.8	
105 1,1,2,2-Tetrachloroethane	83		12.434				ND		
106 Bromobenzene	156		12.458				ND		
107 trans-1,4-Dichloro-2-butene	53		12.458				ND		
108 1,2,3-Trichloropropane	110		12.482				ND		
109 N-Propylbenzene	91		12.519				ND		
110 2-Chlorotoluene	126		12.598				ND		
111 1,3,5-Trimethylbenzene	105		12.653				ND		
112 4-Chlorotoluene	126		12.689				ND		
113 tert-Butylbenzene	134		12.896				ND		
114 Pentachloroethane	167		12.932				ND		
115 1,2,4-Trimethylbenzene	105		12.939				ND		
116 sec-Butylbenzene	105		13.060				ND		
117 1,3-Dichlorobenzene	146		13.164				ND		
118 4-Isopropyltoluene	119		13.170				ND		
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	410841	50.0	50.0	
120 1,4-Dichlorobenzene	146		13.237				ND		
121 1,2,3-Trimethylbenzene	105		13.243				ND		
122 Benzyl chloride	91		13.310				ND		7
123 1,3-Diethylbenzene	119		13.364				ND		
124 p-Diethylbenzene	119		13.443				ND		
125 n-Butylbenzene	92		13.462				ND		
126 1,2-Dichlorobenzene	146		13.498				ND		
127 o-diethylbenzene	119		13.510				ND		
128 Hexachloroethane	201		13.560				ND		
129 1,2-Dibromo-3-Chloropropane	75		14.040				ND		
130 1,3,5-Trichlorobenzene	180		14.167				ND		
131 1,2,4-Trichlorobenzene	180		14.593				ND		
132 Hexachlorobutadiene	225		14.672				ND		
133 Naphthalene	128		14.776				ND		7
134 1,2,3-Trichlorobenzene	180		14.922				ND		
135 2-Methylnaphthalene	142		15.579				ND		7
136 C4-C10	1		0.000				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
198 Chlorodifluoromethane TIC	1		0.000					ND	
197 Ethyl Acetate TIC	1		0.000					ND	
196 Chloroacetaldehyde TIC	1		0.000					ND	
185 Hexachloroethane TIC	1		0.000					ND	
199 Vinyl acetate (TIC)	1		0.000					ND	
195 2-Picoline (TIC)	1		0.000					ND	
193 Isooctane TIC	1		0.000					ND	
192 Malononitrile (TIC)	1		0.000					ND	
191 1-Chlorobutane TIC	1		0.000					ND	
190 Propionaldehyde TIC	1		0.000					ND	
189 2-Pentanone (TIC)	1		0.000					ND	
188 Bromoethane TIC	1		0.000					ND	
187 Nitrobenzene TIC	1		0.000					ND	
194 Epibromohydrin TIC	1		0.000					ND	
186 1,3-Dichlorobutene-2(total) TIC	1		0.000					ND	
184 2-Chloroethanol TIC	1		0.000					ND	
183 Propane TIC	1		0.000					ND	
181 Ethyl ether TIC	1		0.000					ND	
182 Acetonitrile TIC	1		0.000					ND	
210 Bromoacetone (TIC)	1		0.000					ND	
217 Ethyl acrylate TIC	1		0.000					ND	
216 Pentachloroethane TIC	1		0.000					ND	
215 1-Bromo-2-chloroethane TIC	1		0.000					ND	
214 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
213 Chloral hydrate (TIC)	1		0.000					ND	
212 Methanol TIC	1		0.000					ND	
211 2,3-Dibromopropene TIC	1		0.000					ND	
209 Paraldehyde TIC	1		0.000					ND	
201 Vinyl bromide TIC	1		0.000					ND	
S 144 Total Diethylbenzene	1		0.000					ND	7
163 Methylal	1		0.000					ND	
206 2-Bromo-3-chloropropene TIC	1		0.000					ND	
205 Pentafluorobenzene TIC	1		0.000					ND	
204 n-butyl Acetate TIC	1		0.000					ND	
203 Epichlorohydrin TIC	1		0.000					ND	
202 1-Bromopropane TIC	1		0.000					ND	
200 Allyl Alcohol TIC	1		0.000					ND	
180 Propanol TIC	1		0.000					ND	
179 Monochloroacetic acid TIC	1		0.000					ND	
138 Ethyl bromide	1		0.000					ND	
208 Ethylene oxide TIC	1		0.000					ND	
137 Chloroacetonitrile	1		0.000					ND	
149 Propene oxide TIC	1		0.000					ND	
148 C5-C12	1		0.000					ND	
147 1-Bromo-2-chloroethane	1		0.000					ND	
155 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
146 C6-C12	1		0.000					ND	
143 3-chloro-1-Butene	1		0.000					ND	
142 C6-C10	1		0.000					ND	
141 Methyl acrylate	1		0.000					ND	
140 tert-Butyl Formate	1		0.000					ND	
139 1,3-Divinylbenzene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
157 1-Chlorobutane	1		0.000					ND	
169 Butane	1		0.000					ND	
168 Dodecane	57		0.000					ND	
165 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
156 1,4-Divinylbenzene	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
153 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
152 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
150 Diethoxymethane	1		0.000					ND	
176 beta-Propiolactone TIC	1		0.000					ND	
175 n-Propylamine (TIC)	1		0.000					ND	
174 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
173 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
172 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
171 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
170 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
158 C4-C12	1		0.000					ND	
177 2-Bromoethanol TIC	1		0.000					ND	
167 n-Decane	57		0.000					ND	
207 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
178 Propargyl alcohol TIC	1		0.000					ND	
S 162 divinyl benzene	1		0.000					ND	7
161 1,3-Dichlorobutene-2(total)	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
218 Ethanol TIC	1		0.000					ND	
219 o-toluidine TIC	1		0.000					ND	
S 220 Total BTEX	1		0.000					ND	
221 2-Methylbutane TIC	1		0.000					ND	
222 Tetranitromethane TIC	1		0.000					ND	
166 Ethyl acrylate	55		0.000					ND	
224 Butane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

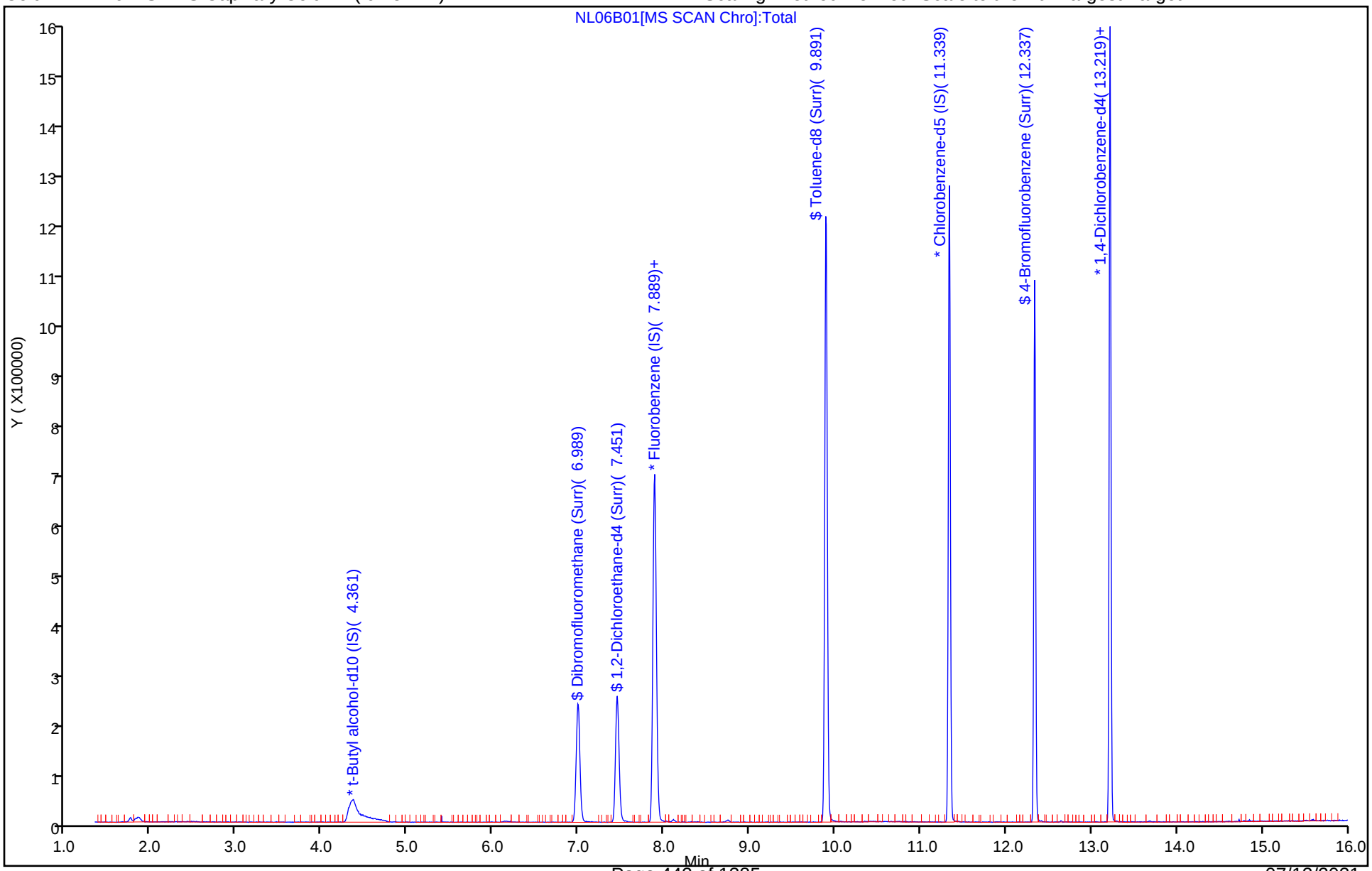
Report Date: 06-Jul-2021 11:12:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06B01.D

Injection Date:	06-Jul-2021 10:33:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145456/6

Matrix: Water Lab File ID: NL06B35.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06B35.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Jul-2021 21:58:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033637-006
Misc. Info.: MB
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 23:08:36 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1626

First Level Reviewer: proctore Date: 06-Jul-2021 22:24:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.170					ND	
2 Chlorodifluoromethane	51		1.389					ND	
3 2-Chloro-1,1,1-Trifluoroethane	118		1.389					ND	
4 Ethyl ether	59		1.926					ND	
5 Dichlorodifluoromethane	85		2.019					ND	
6 Chloromethane	50		2.219					ND	
7 Acetonitrile	41		2.334					ND	
8 Vinyl chloride	62		2.335					ND	
9 Butadiene	39		2.347					ND	
10 Bromomethane	94		2.688					ND	
11 Chloroethane	64		2.779					ND	
12 Dichlorofluoromethane	67		3.022					ND	
13 Trichlorofluoromethane	101		3.083					ND	
14 Vinyl acetate	43		3.115					ND	
15 Pentane	43		3.150					ND	
16 Ethanol	45		3.223					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.436					ND	
18 Acrolein	56		3.533					ND	
19 Ethyl acetate	43		3.675					ND	
20 1,1-Dichloroethene	96		3.686					ND	
21 Acetone	58		3.710					ND	
22 112TCTFE	101		3.716					ND	
23 Isopropyl alcohol	45		3.856					ND	
24 Iodomethane	142		3.892					ND	
25 Carbon disulfide	76		4.002					ND	
26 Methyl acetate	43		4.142					ND	
27 3-Chloro-1-propene	41		4.178					ND	
* 29 t-Butyl alcohol-d10 (IS)	65	4.355	4.361	-0.006	38	258261	250.0	250.0	
28 Methylene Chloride	84		4.373					ND	
31 2-Methyl-2-propanol	59		4.489					ND	
30 Isopropyl acetate	43		4.535					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		4.708					ND	
33 Methyl tert-butyl ether	73		4.787					ND	
34 trans-1,2-Dichloroethene	96		4.811					ND	
36 Hexane	57		5.225					ND	
37 1,1-Dichloroethane	63		5.462					ND	
39 Isopropyl ether	45		5.517					ND	
38 n-Propyl acetate	61		5.529					ND	
40 2-Chloro-1,3-butadiene	53		5.571					ND	
41 Tert-butyl ethyl ether	59		6.052					ND	
S 42 1,2-Dichloroethene, Total	100		6.155					ND	7
43 2-Butanone (MEK)	43		6.241					ND	
44 cis-1,2-Dichloroethene	96		6.295					ND	
45 2,2-Dichloropropane	77		6.314					ND	
46 Propionitrile	54		6.326					ND	
47 Methacrylonitrile	67		6.557					ND	
49 Tetrahydrofuran	71		6.630					ND	
48 Chlorobromomethane	128		6.636					ND	
50 Chloroform	83		6.776					ND	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	223709	50.0	45.5	
52 1,1,1-Trichloroethane	97		7.013					ND	
53 3,4-Dichloro-1-butene	75		7.108					ND	
54 Cyclohexane	56		7.123					ND	
56 1,1-Dichloropropene	75		7.226					ND	
55 Carbon tetrachloride	117		7.232					ND	
57 n-Butyl acetate	43		7.333					ND	
58 Isobutyl alcohol	41		7.342					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	93	61412	50.0	51.1	
60 Benzene	78		7.488					ND	
61 1,2-Dichloroethane	62		7.561					ND	7
62 Tert-amyl methyl ether	73		7.676					ND	
* 64 Fluorobenzene (IS)	96	7.889	7.889	0.000	99	939991	50.0	50.0	
63 t-Amyl alcohol	73	7.883	7.895	-0.012	34	11139		NC	
65 n-Heptane	43		7.901					ND	
66 n-Butanol	56		8.230					ND	
67 Trichloroethene	95		8.376					ND	
68 Methylcyclohexane	83		8.692					ND	
70 1,2-Dichloropropane	63		8.711					ND	
69 2-ethoxy-2-methyl butane	87		8.711					ND	
71 Methyl methacrylate	69		8.784					ND	
72 1,4-Dioxane	88		8.790					ND	
74 Dibromomethane	93		8.820					ND	
73 cis-1,4-Dichloro-2-butene	88		8.833					ND	
75 Dichlorobromomethane	83		9.051					ND	
76 2,3,4-Trichlorobutene	109		9.296					ND	
77 2-Nitropropane	41		9.313					ND	
78 2-Chloroethyl vinyl ether	63		9.404					ND	
79 cis-1,3-Dichloropropene	75		9.593					ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.751					ND	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	950913	50.0	52.8	
82 Toluene	92		9.970					ND	
S 83 1,3-Dichloropropene, Total	100		10.060					ND	7
84 trans-1,3-Dichloropropene	75		10.219					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Ethyl methacrylate	69		10.274				ND		
86 1,1,2-Trichloroethane	97		10.426				ND		
87 Tetrachloroethene	166		10.517				ND		
88 1,3-Dichloropropane	76		10.584				ND		
89 2-Hexanone	43		10.627				ND		
90 Chlorodibromomethane	129		10.797				ND		
91 Ethylene Dibromide	107		10.913				ND		
S 92 Xylenes, Total	106		11.245				ND		7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	724141	50.0	50.0	
94 1-Chlorohexane	91		11.345				ND		U
95 Chlorobenzene	112		11.363				ND		
96 1,1,1,2-Tetrachloroethane	131		11.448				ND		
97 Ethylbenzene	91		11.448				ND		
98 m-Xylene & p-Xylene	106		11.564				ND		
99 o-Xylene	106		11.892				ND		
100 Styrene	104		11.904				ND		
101 Bromoform	173		12.069				ND		
102 Isopropylbenzene	105		12.190				ND		
103 Cyclohexanone	55		12.269				ND		
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	344546	50.0	48.0	
105 1,1,2,2-Tetrachloroethane	83		12.434				ND		
106 Bromobenzene	156		12.458				ND		
107 trans-1,4-Dichloro-2-butene	53		12.458				ND		
108 1,2,3-Trichloropropane	110		12.482				ND		
109 N-Propylbenzene	91		12.519				ND		
110 2-Chlorotoluene	126		12.598				ND		
111 1,3,5-Trimethylbenzene	105		12.653				ND		
112 4-Chlorotoluene	126		12.689				ND		
113 tert-Butylbenzene	134		12.896				ND		
114 Pentachloroethane	167		12.932				ND		
115 1,2,4-Trimethylbenzene	105		12.939				ND		
116 sec-Butylbenzene	105		13.060				ND		
117 1,3-Dichlorobenzene	146		13.164				ND		
118 4-Isopropyltoluene	119		13.170				ND		
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	391601	50.0	50.0	
120 1,4-Dichlorobenzene	146		13.237				ND		
121 1,2,3-Trimethylbenzene	105		13.243				ND		
122 Benzyl chloride	91		13.310				ND		7
123 1,3-Diethylbenzene	119		13.371				ND		
124 p-Diethylbenzene	119		13.444				ND		
125 n-Butylbenzene	92		13.462				ND		
126 1,2-Dichlorobenzene	146		13.498				ND		
127 o-diethylbenzene	119		13.510				ND		
128 Hexachloroethane	201		13.560				ND		
129 1,2-Dibromo-3-Chloropropane	75		14.040				ND		
130 1,3,5-Trichlorobenzene	180		14.168				ND		
131 1,2,4-Trichlorobenzene	180		14.593				ND		
132 Hexachlorobutadiene	225		14.672				ND		
133 Naphthalene	128		14.776				ND		7
134 1,2,3-Trichlorobenzene	180		14.922				ND		
135 2-Methylnaphthalene	142		15.579				ND		7
136 C4-C10	1		0.000				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
189 2-Pentanone (TIC)	1		0.000					ND	
188 Bromoethane TIC	1		0.000					ND	
187 Nitrobenzene TIC	1		0.000					ND	
194 Epibromohydrin TIC	1		0.000					ND	
186 1,3-Dichlorobutene-2(total) TIC	1		0.000					ND	
184 2-Chloroethanol TIC	1		0.000					ND	
183 Propane TIC	1		0.000					ND	
182 Acetonitrile TIC	1		0.000					ND	
181 Ethyl ether TIC	1		0.000					ND	
198 Chlorodifluoromethane TIC	1		0.000					ND	
197 Ethyl Acetate TIC	1		0.000					ND	
196 Chloroacetaldehyde TIC	1		0.000					ND	
185 Hexachloroethane TIC	1		0.000					ND	
199 Vinyl acetate (TIC)	1		0.000					ND	
195 2-Picoline (TIC)	1		0.000					ND	
193 Isooctane TIC	1		0.000					ND	
192 Malononitrile (TIC)	1		0.000					ND	
190 Propionaldehyde TIC	1		0.000					ND	
191 1-Chlorobutane TIC	1		0.000					ND	
210 Bromoacetone (TIC)	1		0.000					ND	
179 Monochloroacetic acid TIC	1		0.000					ND	
216 Pentachloroethane TIC	1		0.000					ND	
215 1-Bromo-2-chloroethane TIC	1		0.000					ND	
214 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
213 Chloral hydrate (TIC)	1		0.000					ND	
212 Methanol TIC	1		0.000					ND	
211 2,3-Dibromopropene TIC	1		0.000					ND	
209 Paraldehyde TIC	1		0.000					ND	
201 Vinyl bromide TIC	1		0.000					ND	
S 144 Total Diethylbenzene	1		0.000					ND	7
163 Methylal	1		0.000					ND	
206 2-Bromo-3-chloropropene TIC	1		0.000					ND	
205 Pentafluorobenzene TIC	1		0.000					ND	
204 n-butyl Acetate TIC	1		0.000					ND	
203 Epichlorohydrin TIC	1		0.000					ND	
202 1-Bromopropane TIC	1		0.000					ND	
200 Allyl Alcohol TIC	1		0.000					ND	
180 Propanol TIC	1		0.000					ND	
217 Ethyl acrylate TIC	1		0.000					ND	
138 Ethyl bromide	1		0.000					ND	
208 Ethylene oxide TIC	1		0.000					ND	
137 Chloroacetonitrile	1		0.000					ND	
139 1,3-Divinylbenzene	1		0.000					ND	
157 1-Chlorobutane	1		0.000					ND	
169 Butane	1		0.000					ND	
168 Dodecane	57		0.000					ND	
165 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
156 1,4-Divinylbenzene	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
153 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
152 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
150 Diethoxymethane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
149 Propene oxide TIC	1		0.000					ND	
148 C5-C12	1		0.000					ND	
147 1-Bromo-2-chloroethane	1		0.000					ND	
155 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
146 C6-C12	1		0.000					ND	
143 3-chloro-1-Butene	1		0.000					ND	
142 C6-C10	1		0.000					ND	
141 Methyl acrylate	1		0.000					ND	
140 tert-Butyl Formate	1		0.000					ND	
176 beta-Propiolactone TIC	1		0.000					ND	
174 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
175 n-Propylamine (TIC)	1		0.000					ND	
173 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
172 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
171 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
170 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
158 C4-C12	1		0.000					ND	
177 2-Bromoethanol TIC	1		0.000					ND	
167 n-Decane	57		0.000					ND	
207 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
178 Propargyl alcohol TIC	1		0.000					ND	
S 162 divinyl benzene	1		0.000					ND	7
161 1,3-Dichlorobutene-2(total)	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
218 Ethanol TIC	1		0.000					ND	
219 o-toluidine TIC	1		0.000					ND	
S 220 Total BTEX	1		0.000					ND	
221 2-Methylbutane TIC	1		0.000					ND	
222 Tetranitromethane TIC	1		0.000					ND	
166 Ethyl acrylate	55		0.000					ND	
224 Butane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

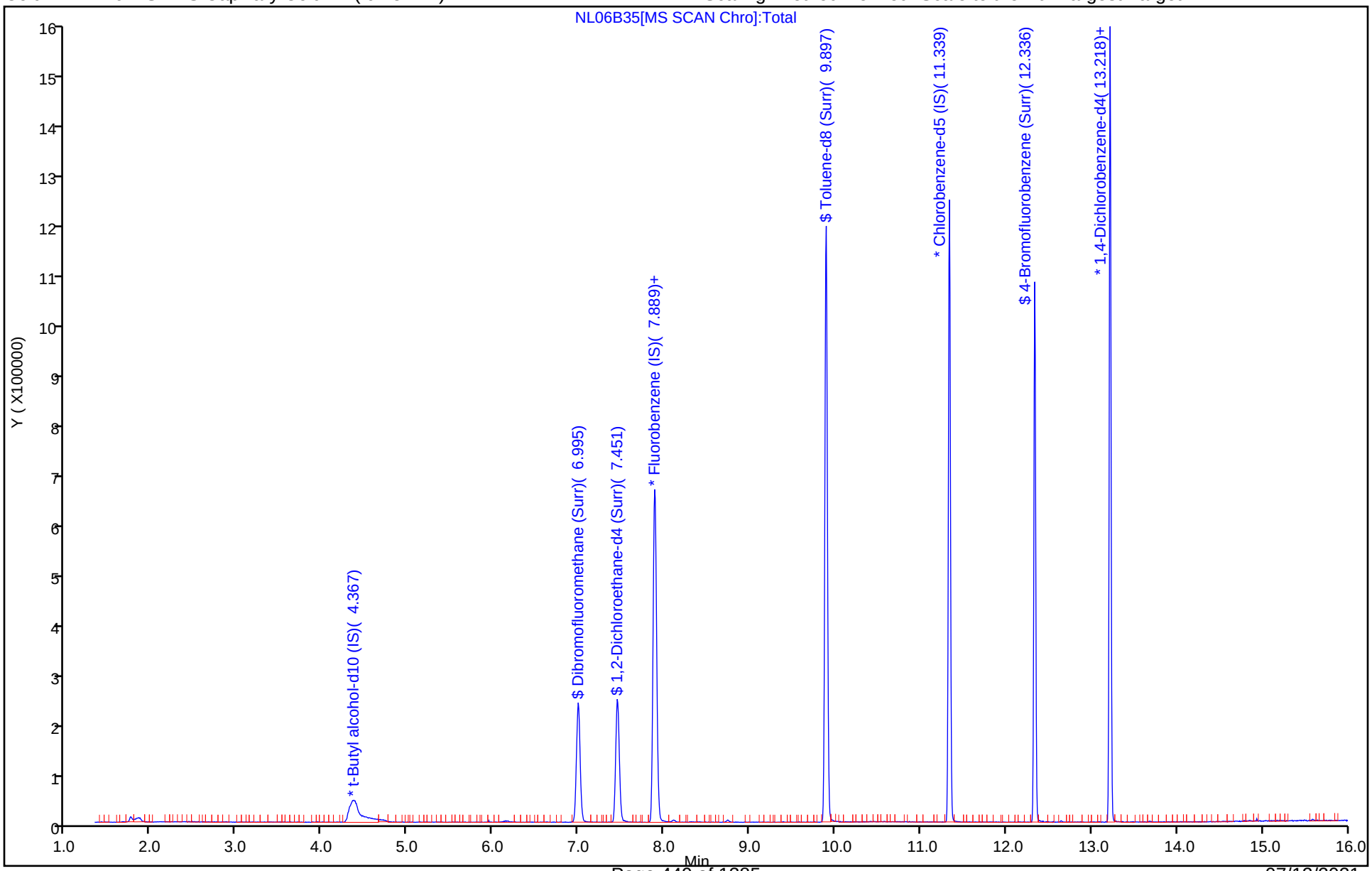
Report Date: 06-Jul-2021 23:08:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06B35.D

Injection Date:	06-Jul-2021 21:58:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145954/6

Matrix: Water Lab File ID: NL07B35.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/07/2021 22:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07B35.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Jul-2021 22:07:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-006
Misc. Info.: MB
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 22:36:11 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1641

First Level Reviewer: proctore Date: 07-Jul-2021 22:35:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.170					ND	
2 Chlorodifluoromethane	51		1.389					ND	
3 2-Chloro-1,1,1-Trifluoroethane	118		1.389					ND	
4 Ethyl ether	59		1.926					ND	
5 Dichlorodifluoromethane	85		2.019					ND	
6 Chloromethane	50		2.225					ND	
7 Acetonitrile	41		2.334					ND	
8 Vinyl chloride	62		2.347					ND	
9 Butadiene	39		2.359					ND	
10 Bromomethane	94		2.694					ND	
11 Chloroethane	64		2.791					ND	
12 Dichlorofluoromethane	67		3.035					ND	
13 Trichlorofluoromethane	101		3.089					ND	
14 Vinyl acetate	43		3.115					ND	
15 Pentane	43		3.150					ND	
16 Ethanol	45		3.217					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.442					ND	
18 Acrolein	56		3.540					ND	
19 Ethyl acetate	43		3.675					ND	
20 1,1-Dichloroethene	96		3.692					ND	
21 Acetone	58		3.716					ND	
22 112TCTFE	101		3.728					ND	
23 Isopropyl alcohol	45		3.880					ND	
24 Iodomethane	142		3.898					ND	
25 Carbon disulfide	76		4.014					ND	
26 Methyl acetate	43		4.148					ND	
27 3-Chloro-1-propene	41		4.184					ND	
* 29 t-Butyl alcohol-d10 (IS)	65	4.361	4.379	-0.018	38	276344	250.0	250.0	
28 Methylene Chloride	84		4.379					ND	
31 2-Methyl-2-propanol	59		4.501					ND	
30 Isopropyl acetate	43		4.535					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		4.708					ND	
33 Methyl tert-butyl ether	73		4.793					ND	
34 trans-1,2-Dichloroethene	96		4.811					ND	
36 Hexane	57		5.231					ND	
37 1,1-Dichloroethane	63		5.468					ND	
39 Isopropyl ether	45		5.523					ND	
38 n-Propyl acetate	61		5.529					ND	
40 2-Chloro-1,3-butadiene	53		5.578					ND	
41 Tert-butyl ethyl ether	59		6.058					ND	
S 42 1,2-Dichloroethene, Total	100		6.155					ND	7
43 2-Butanone (MEK)	43		6.247					ND	
44 cis-1,2-Dichloroethene	96		6.301					ND	
45 2,2-Dichloropropane	77		6.314					ND	
46 Propionitrile	54		6.338					ND	
47 Methacrylonitrile	67		6.563					ND	
49 Tetrahydrofuran	71		6.636					ND	
48 Chlorobromomethane	128		6.636					ND	
50 Chloroform	83		6.782					ND	
$ 51 Dibromofluoromethane (Surr)	113	6.989	6.995	-0.006	93	230573	50.0	44.3	
52 1,1,1-Trichloroethane	97		7.019					ND	
53 3,4-Dichloro-1-butene	75		7.108					ND	
54 Cyclohexane	56		7.123					ND	
56 1,1-Dichloropropene	75		7.226					ND	
55 Carbon tetrachloride	117		7.238					ND	
57 n-Butyl acetate	43		7.333					ND	
58 Isobutyl alcohol	41		7.348					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.457	-0.006	93	65206	50.0	51.2	
60 Benzene	78		7.494					ND	
61 1,2-Dichloroethane	62		7.561					ND	7
62 Tert-amyl methyl ether	73		7.676					ND	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	995664	50.0	50.0	
63 t-Amyl alcohol	73	7.889	7.895	-0.006	34	11192		NC	
65 n-Heptane	43		7.908					ND	
66 n-Butanol	56		8.236					ND	
67 Trichloroethene	95		8.376					ND	
68 Methylcyclohexane	83		8.692					ND	
69 2-ethoxy-2-methyl butane	87		8.711					ND	
70 1,2-Dichloropropane	63		8.717					ND	
71 Methyl methacrylate	69		8.784					ND	
72 1,4-Dioxane	88		8.796					ND	
74 Dibromomethane	93		8.826					ND	
73 cis-1,4-Dichloro-2-butene	88		8.833					ND	
75 Dichlorobromomethane	83		9.057					ND	
76 2,3,4-Trichlorobutene	109		9.296					ND	
77 2-Nitropropane	41		9.313					ND	
78 2-Chloroethyl vinyl ether	63		9.410					ND	
79 cis-1,3-Dichloropropene	75		9.593					ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.751					ND	
$ 81 Toluene-d8 (Surr)	98	9.891	9.897	-0.006	93	1021984	50.0	53.5	
82 Toluene	92		9.970					ND	
S 83 1,3-Dichloropropene, Total	100		10.060					ND	7
84 trans-1,3-Dichloropropene	75		10.219					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Ethyl methacrylate	69		10.274				ND		
86 1,1,2-Trichloroethane	97		10.426				ND		
87 Tetrachloroethene	166		10.517				ND		
88 1,3-Dichloropropane	76		10.584				ND		
89 2-Hexanone	43		10.627				ND		
90 Chlorodibromomethane	129		10.803				ND		
91 Ethylene Dibromide	107		10.913				ND		
S 92 Xylenes, Total	106		11.245				ND		7
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	768053	50.0	50.0	
94 1-Chlorohexane	91		11.345				ND		U
95 Chlorobenzene	112		11.363				ND		
96 1,1,1,2-Tetrachloroethane	131		11.448				ND		
97 Ethylbenzene	91		11.448				ND		
98 m-Xylene & p-Xylene	106		11.564				ND		
99 o-Xylene	106		11.892				ND		
100 Styrene	104		11.904				ND		
101 Bromoform	173		12.069				ND		
102 Isopropylbenzene	105		12.190				ND		
103 Cyclohexanone	55		12.263				ND		
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	88	371912	50.0	48.9	
105 1,1,2,2-Tetrachloroethane	83		12.434				ND		
106 Bromobenzene	156		12.458				ND		
107 trans-1,4-Dichloro-2-butene	53		12.458				ND		
108 1,2,3-Trichloropropane	110		12.482				ND		
109 N-Propylbenzene	91		12.519				ND		
110 2-Chlorotoluene	126		12.598				ND		
111 1,3,5-Trimethylbenzene	105		12.653				ND		
112 4-Chlorotoluene	126		12.689				ND		
113 tert-Butylbenzene	134		12.896				ND		
114 Pentachloroethane	167		12.932				ND		
115 1,2,4-Trimethylbenzene	105		12.939				ND		
116 sec-Butylbenzene	105		13.060				ND		
117 1,3-Dichlorobenzene	146		13.164				ND		
118 4-Isopropyltoluene	119		13.170				ND		
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	418981	50.0	50.0	
120 1,4-Dichlorobenzene	146		13.237				ND		
121 1,2,3-Trimethylbenzene	105		13.243				ND		
122 Benzyl chloride	91		13.310				ND		7
123 1,3-Diethylbenzene	119		13.371				ND		
124 p-Diethylbenzene	119		13.444				ND		
125 n-Butylbenzene	92		13.462				ND		
126 1,2-Dichlorobenzene	146		13.498				ND		
127 o-diethylbenzene	119		13.517				ND		
128 Hexachloroethane	201		13.560				ND		
129 1,2-Dibromo-3-Chloropropane	75		14.040				ND		
130 1,3,5-Trichlorobenzene	180		14.168				ND		
131 1,2,4-Trichlorobenzene	180		14.593				ND		
132 Hexachlorobutadiene	225		14.679				ND		
133 Naphthalene	128		14.776				ND		7
134 1,2,3-Trichlorobenzene	180		14.922				ND		
135 2-Methylnaphthalene	142		15.579				ND		7
136 C4-C10	1		0.000				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
187 Nitrobenzene TIC	1		0.000					ND	
194 Epibromohydrin TIC	1		0.000					ND	
186 1,3-Dichlorobutene-2(total) TIC	1		0.000					ND	
184 2-Chloroethanol TIC	1		0.000					ND	
183 Propane TIC	1		0.000					ND	
182 Acetonitrile TIC	1		0.000					ND	
181 Ethyl ether TIC	1		0.000					ND	
198 Chlorodifluoromethane TIC	1		0.000					ND	
197 Ethyl Acetate TIC	1		0.000					ND	
196 Chloroacetaldehyde TIC	1		0.000					ND	
185 Hexachloroethane TIC	1		0.000					ND	
199 Vinyl acetate (TIC)	1		0.000					ND	
195 2-Picoline (TIC)	1		0.000					ND	
193 Isooctane TIC	1		0.000					ND	
192 Malononitrile (TIC)	1		0.000					ND	
191 1-Chlorobutane TIC	1		0.000					ND	
190 Propionaldehyde TIC	1		0.000					ND	
188 Bromoethane TIC	1		0.000					ND	
189 2-Pentanone (TIC)	1		0.000					ND	
210 Bromoacetone (TIC)	1		0.000					ND	
217 Ethyl acrylate TIC	1		0.000					ND	
216 Pentachloroethane TIC	1		0.000					ND	
215 1-Bromo-2-chloroethane TIC	1		0.000					ND	
214 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
213 Chloral hydrate (TIC)	1		0.000					ND	
212 Methanol TIC	1		0.000					ND	
211 2,3-Dibromopropene TIC	1		0.000					ND	
209 Paraldehyde TIC	1		0.000					ND	
201 Vinyl bromide TIC	1		0.000					ND	
207 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
S 144 Total Diethylbenzene	1		0.000					ND	7
206 2-Bromo-3-chloropropene TIC	1		0.000					ND	
205 Pentafluorobenzene TIC	1		0.000					ND	
204 n-butyl Acetate TIC	1		0.000					ND	
203 Epichlorohydrin TIC	1		0.000					ND	
202 1-Bromopropane TIC	1		0.000					ND	
200 Allyl Alcohol TIC	1		0.000					ND	
180 Propanol TIC	1		0.000					ND	
179 Monochloroacetic acid TIC	1		0.000					ND	
138 Ethyl bromide	1		0.000					ND	
208 Ethylene oxide TIC	1		0.000					ND	
137 Chloroacetonitrile	1		0.000					ND	
141 Methyl acrylate	1		0.000					ND	
140 tert-Butyl Formate	1		0.000					ND	
139 1,3-Divinylbenzene	1		0.000					ND	
157 1-Chlorobutane	1		0.000					ND	
169 Butane	1		0.000					ND	
168 Dodecane	57		0.000					ND	
165 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
156 1,4-Divinylbenzene	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
153 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
152 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
150 Diethoxymethane	1		0.000					ND	
149 Propene oxide TIC	1		0.000					ND	
148 C5-C12	1		0.000					ND	
147 1-Bromo-2-chloroethane	1		0.000					ND	
155 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
146 C6-C12	1		0.000					ND	
143 3-chloro-1-Butene	1		0.000					ND	
142 C6-C10	1		0.000					ND	
176 beta-Propiolactone TIC	1		0.000					ND	
175 n-Propylamine (TIC)	1		0.000					ND	
174 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
173 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
172 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
171 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
170 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
158 C4-C12	1		0.000					ND	
177 2-Bromoethanol TIC	1		0.000					ND	
167 n-Decane	57		0.000					ND	
178 Propargyl alcohol TIC	1		0.000					ND	
166 Ethyl acrylate	55		0.000					ND	
S 162 divinyl benzene	1		0.000					ND	7
161 1,3-Dichlorobutene-2(total)	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
218 Ethanol TIC	1		0.000					ND	
219 o-toluidine TIC	1		0.000					ND	
S 220 Total BTEX	1		0.000					ND	
221 2-Methylbutane TIC	1		0.000					ND	
222 Tetranitromethane TIC	1		0.000					ND	
163 Methylal	1		0.000					ND	
224 Butane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_HP11_ISSS_00007 Amount Added: 5.00 Units: uL Run Reagent

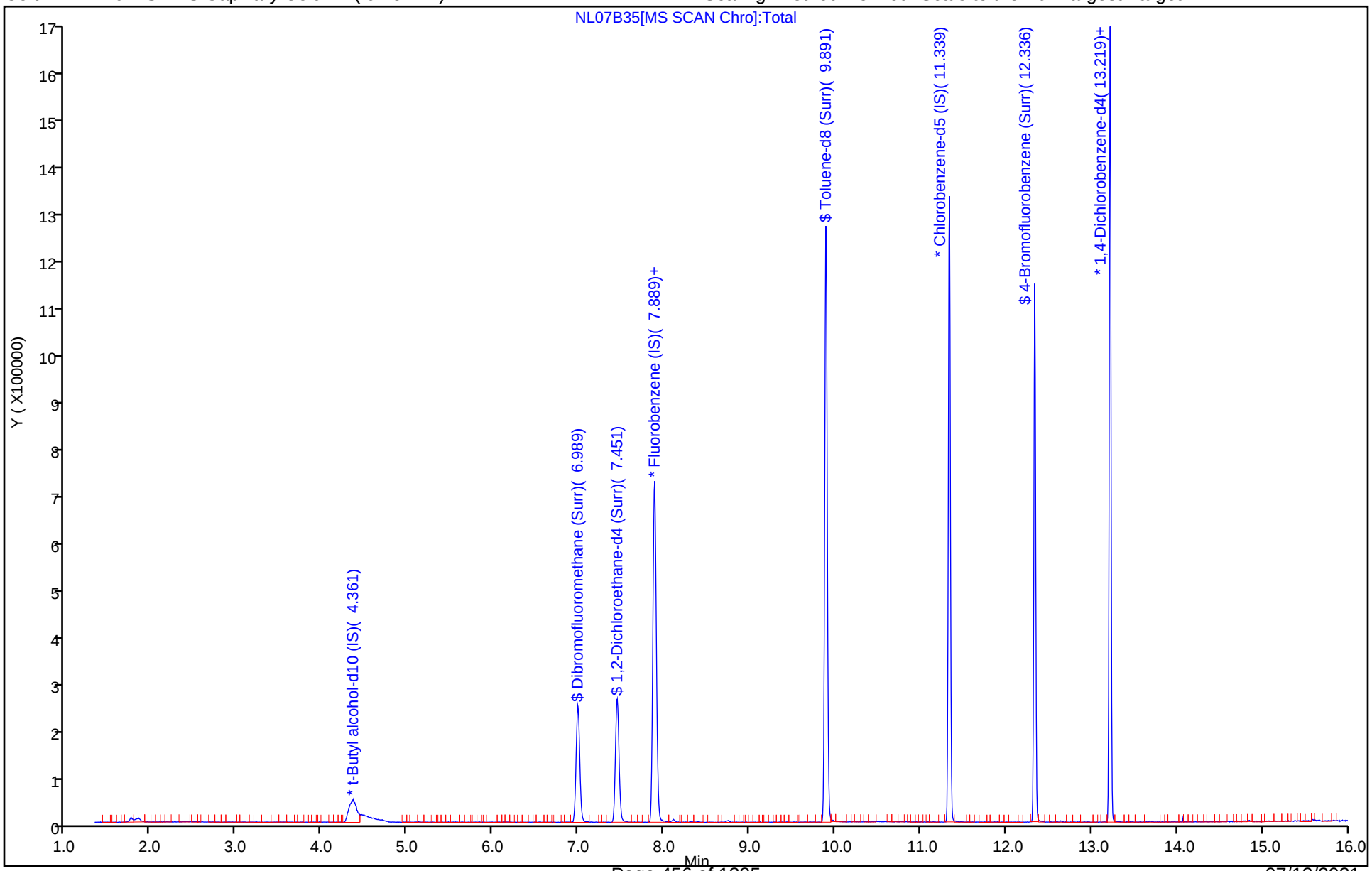
Report Date: 07-Jul-2021 22:36:21 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07B35.D

Injection Date:	07-Jul-2021 22:07:30	Instrument ID:	7159	Operator ID:	etp33087
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-144661/5

Matrix: Water Lab File ID: NL02L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/02/2021 09:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 144661 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.5		1.0	0.30
100-41-4	Ethylbenzene	20.7		1.0	0.40
108-88-3	Toluene	21.4		1.0	0.20
1330-20-7	Xylenes, Total	61.4		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.7		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Jul-2021 09:53:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033446-005
Misc. Info.: LCS
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 02-Jul-2021 12:15:59 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: papel Date: 02-Jul-2021 10:25:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.019	2.013	0.006	98	129668	20.0	19.0	M
6 Chloromethane	50	2.226	2.219	0.007	99	121373	20.0	19.9	
8 Vinyl chloride	62	2.341	2.341	0.000	98	126710	20.0	21.0	
9 Butadiene	39	2.353	2.353	0.000	89	146598	20.0	26.7	
10 Bromomethane	94	2.688	2.682	0.006	90	93788	20.0	19.4	
11 Chloroethane	64	2.785	2.785	0.000	99	80918	20.0	20.4	
12 Dichlorofluoromethane	67	3.029	3.023	0.007	97	181220	20.0	19.0	
13 Trichlorofluoromethane	101	3.089	3.083	0.006	96	160469	20.0	15.3	
15 Pentane	43	3.150	3.150	0.000	97	176618	20.0	20.1	
16 Ethanol	45	3.242	3.205	0.037	87	69534	1000.0	1193.2	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.448	3.442	0.006	92	116597	20.0	18.9	
18 Acrolein	56	3.546	3.540	0.006	99	233458	150.0	115.2	
20 1,1-Dichloroethene	96	3.692	3.686	0.006	97	99941	20.0	20.3	
21 Acetone	58	3.710	3.716	-0.006	100	224873	250.0	277.8	
22 112TCTFE	101	3.722	3.722	0.000	54	102341	20.0	18.0	
23 Isopropyl alcohol	45	3.886	3.880	0.006	35	55319	150.0	107.6	
24 Iodomethane	142	3.899	3.892	0.007	96	172156	20.0	17.0	
25 Carbon disulfide	76	4.008	4.008	0.000	99	316070	20.0	21.4	
26 Methyl acetate	43	4.148	4.142	0.006	97	119292	20.0	21.8	
27 3-Chloro-1-propene	41	4.191	4.184	0.007	93	161959	20.0	19.0	
* 29 t-Butyl alcohol-d10 (IS)	65	4.391	4.379	0.012	97	264332	250.0	250.0	
28 Methylene Chloride	84	4.373	4.379	-0.006	91	115634	20.0	20.9	
31 2-Methyl-2-propanol	59	4.525	4.495	0.030	98	218491	200.0	188.3	M
32 Acrylonitrile	53	4.720	4.708	0.012	100	316692	100.0	116.6	
33 Methyl tert-butyl ether	73	4.787	4.781	0.006	93	326474	20.0	18.7	
34 trans-1,2-Dichloroethene	96	4.811	4.805	0.006	98	115536	20.0	20.2	
36 Hexane	57	5.231	5.231	0.000	89	172885	20.0	20.7	
37 1,1-Dichloroethane	63	5.462	5.462	0.000	96	191931	20.0	20.1	
39 Isopropyl ether	45	5.523	5.517	0.006	94	334515	20.0	19.8	
40 2-Chloro-1,3-butadiene	53	5.572	5.572	0.000	89	165536	20.0	18.2	
41 Tert-butyl ethyl ether	59	6.052	6.052	0.000	97	334748	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	6.247	6.247	0.000	99	1086247	250.0	284.3	
44 cis-1,2-Dichloroethene	96	6.302	6.302	0.000	81	128425	20.0	19.8	
45 2,2-Dichloropropane	77	6.320	6.308	0.012	84	168119	20.0	17.4	
46 Propionitrile	54	6.338	6.332	0.006	99	208518	150.0	160.4	
47 Methacrylonitrile	67	6.563	6.557	0.006	90	522787	150.0	171.5	
48 Chlorobromomethane	128	6.636	6.636	0.000	65	62539	20.0	17.6	
49 Tetrahydrofuran	71	6.630	6.636	-0.006	85	131118	100.0	99.7	
50 Chloroform	83	6.782	6.776	0.006	93	187676	20.0	18.0	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	93	229959	50.0	45.5	
52 1,1,1-Trichloroethane	97	7.013	7.013	0.000	97	169998	20.0	16.7	
54 Cyclohexane	56	7.117	7.117	0.000	89	206872	20.0	20.9	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	96	156338	20.0	19.4	
55 Carbon tetrachloride	117	7.232	7.226	0.006	83	141138	20.0	15.5	
58 Isobutyl alcohol	41	7.342	7.342	0.000	95	174937	500.0	480.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	95	62970	50.0	51.0	
60 Benzene	78	7.488	7.488	0.000	96	471431	20.0	20.5	
61 1,2-Dichloroethane	62	7.561	7.555	0.006	97	137547	20.0	16.4	
62 Tert-amyl methyl ether	73	7.670	7.670	0.000	99	335849	20.0	19.3	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	965749	50.0	50.0	
65 n-Heptane	43	7.908	7.902	0.006	89	157258	20.0	18.9	
66 n-Butanol	56	8.230	8.230	0.000	86	318443	1000.0	1131.8	
67 Trichloroethene	95	8.376	8.376	0.000	97	117156	20.0	18.6	
68 Methylcyclohexane	83	8.692	8.692	0.000	93	231306	20.0	19.5	
70 1,2-Dichloropropane	63	8.711	8.711	0.000	70	117824	20.0	21.1	
69 2-ethoxy-2-methyl butane	87	8.711	8.717	-0.006	92	182005	20.0	19.1	
71 Methyl methacrylate	69	8.784	8.784	0.000	90	104900	20.0	20.2	
72 1,4-Dioxane	88	8.790	8.790	0.000	39	36702	500.0	650.1	M
74 Dibromomethane	93	8.820	8.820	0.000	97	70409	20.0	18.1	
75 Dichlorobromomethane	83	9.057	9.057	0.000	99	140575	20.0	18.0	
77 2-Nitropropane	41	9.313	9.313	0.000	99	39423	20.0	12.8	
78 2-Chloroethyl vinyl ether	63	9.410	9.404	0.006	92	79720	20.0	19.4	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	184392	20.0	19.8	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	2071869	250.0	258.3	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	976365	50.0	53.8	
82 Toluene	92	9.970	9.970	0.000	98	305378	20.0	21.4	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	172569	20.0	21.8	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	175561	20.0	21.8	
86 1,1,2-Trichloroethane	97	10.420	10.420	0.000	89	105749	20.0	20.7	
87 Tetrachloroethene	166	10.518	10.517	0.001	96	126687	20.0	17.2	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	87	177382	20.0	21.6	
89 2-Hexanone	43	10.627	10.627	0.000	95	1601387	250.0	288.5	
90 Chlorodibromomethane	129	10.797	10.803	-0.006	90	113398	20.0	18.5	
91 Ethylene Dibromide	107	10.913	10.913	0.000	98	111036	20.0	19.7	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	729826	50.0	50.0	
94 1-Chlorohexane	91	11.339	11.345	-0.006	96	177729	20.0	20.6	
95 Chlorobenzene	112	11.363	11.363	0.000	96	339451	20.0	20.3	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	96	113785	20.0	18.2	
97 Ethylbenzene	91	11.448	11.448	0.000	98	592730	20.0	20.7	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	476921	40.0	41.2	
99 o-Xylene	106	11.892	11.892	0.000	96	230169	20.0	20.2	
100 Styrene	104	11.905	11.905	0.000	95	385251	20.0	20.8	
101 Bromoform	173	12.069	12.069	0.000	97	78831	20.0	16.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Isopropylbenzene	105	12.190	12.190	0.000	95	621815	20.0	20.3	
103 Cyclohexanone	55	12.264	12.263	0.001	90	129542	500.0	553.2	
$ 104 4-Bromofluorobenzene (Surr)	95	12.337	12.336	0.000	89	346339	50.0	47.9	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	95	176440	20.0	24.9	
106 Bromobenzene	156	12.452	12.458	-0.006	91	137650	20.0	18.8	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	89	220159	100.0	87.6	
108 1,2,3-Trichloropropane	110	12.483	12.482	0.000	85	54843	20.0	21.8	
109 N-Propylbenzene	91	12.519	12.519	0.000	99	719779	20.0	22.7	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	143089	20.0	20.6	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	95	501252	20.0	21.1	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	146755	20.0	20.8	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	108757	20.0	20.0	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	96	518031	20.0	21.3	
116 sec-Butylbenzene	105	13.060	13.060	0.000	94	640790	20.0	21.7	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	98	267550	20.0	19.3	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	558399	20.0	21.0	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.219	0.000	94	399721	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	94	269448	20.0	19.1	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	512901	20.0	21.2	
122 Benzyl chloride	91	13.310	13.310	0.000	98	364305	20.0	22.6	
123 1,3-Diethylbenzene	119	13.371	13.371	0.000	95	323703	20.0	20.4	
124 p-Diethylbenzene	119	13.444	13.444	0.000	95	340241	20.0	20.3	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	267031	20.0	21.6	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	254489	20.0	19.2	
127 o-diethylbenzene	119	13.511	13.511	0.000	95	268148	20.0	20.5	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	87	39815	20.0	21.5	
130 1,3,5-Trichlorobenzene	180	14.168	14.168	0.000	98	170779	20.0	17.6	
131 1,2,4-Trichlorobenzene	180	14.594	14.593	0.001	95	153368	20.0	18.0	
132 Hexachlorobutadiene	225	14.673	14.673	0.000	97	57504	20.0	16.0	
133 Naphthalene	128	14.776	14.776	0.000	96	575946	20.0	21.0	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	95	142482	20.0	17.8	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	282754	20.0	18.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Gases_00012	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00007	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00009	Amount Added: 50.00	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 50.00	Units: uL	
MSV_QCYC_00005	Amount Added: 50.00	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 02-Jul-2021 12:16:08 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210702-33446.b\NL02L01.D

Injection Date: 02-Jul-2021 09:53:30 Instrument ID: 7159 Operator ID: lcp00895

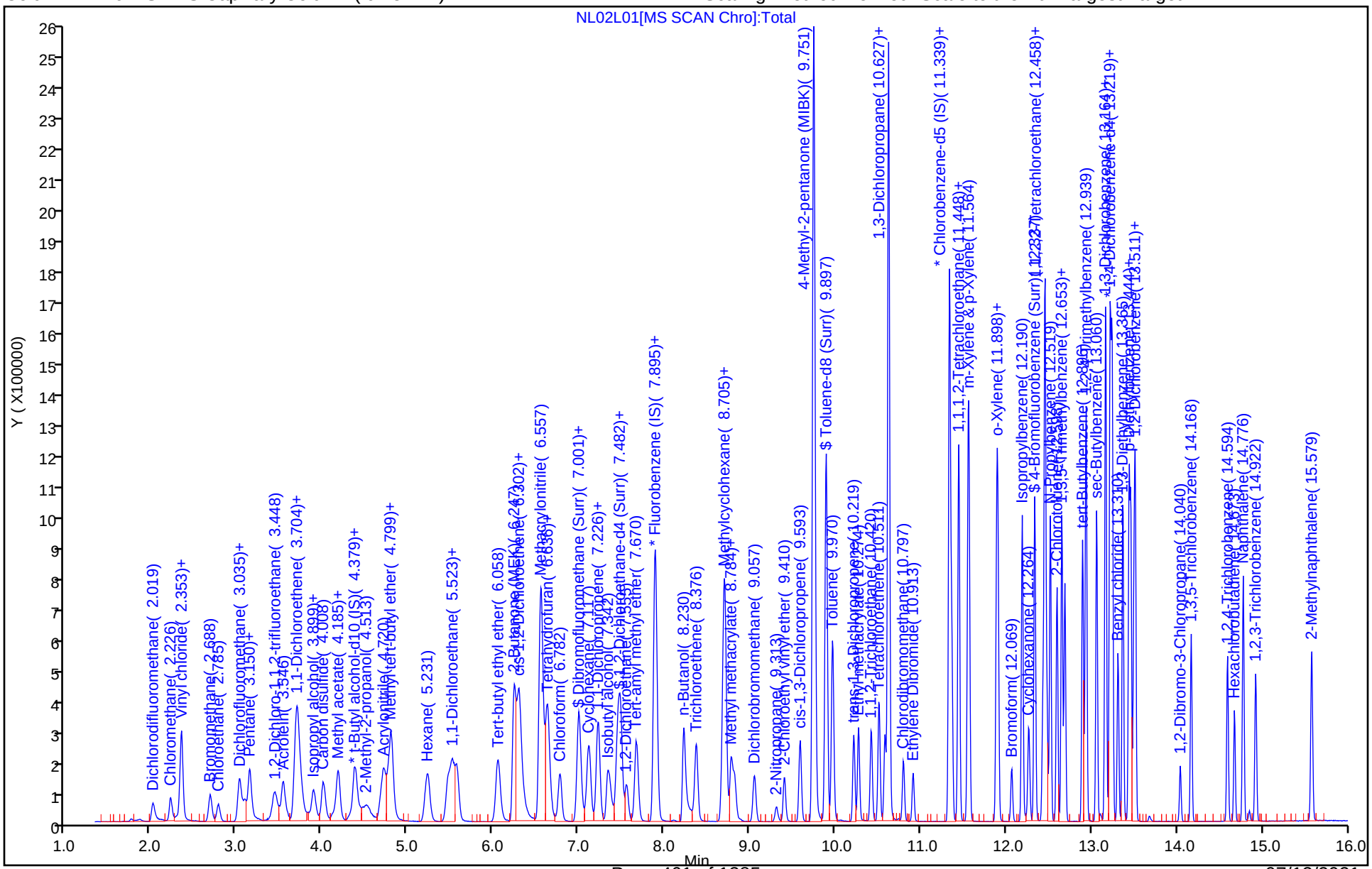
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145203/5

Matrix: Water Lab File ID: NL06L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 09:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21.1		1.0	0.30
100-41-4	Ethylbenzene	21.1		1.0	0.40
108-88-3	Toluene	21.5		1.0	0.20
1330-20-7	Xylenes, Total	61.8		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.6		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Jul-2021 09:47:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-005
Misc. Info.: LCS
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 11:12:14 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: papel Date: 06-Jul-2021 10:23:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.012	2.019	-0.007	99	132093	20.0	18.8	
6 Chloromethane	50	2.219	2.225	-0.006	99	127663	20.0	20.3	
8 Vinyl chloride	62	2.335	2.341	-0.006	98	136236	20.0	22.0	
9 Butadiene	39	2.347	2.353	-0.006	90	158799	20.0	28.1	
10 Bromomethane	94	2.682	2.694	-0.012	89	99546	20.0	20.0	
11 Chloroethane	64	2.773	2.785	-0.012	100	87455	20.0	21.5	
12 Dichlorofluoromethane	67	3.022	3.028	-0.006	97	199481	20.0	20.3	
13 Trichlorofluoromethane	101	3.083	3.089	-0.006	97	172138	20.0	15.9	
15 Pentane	43	3.144	3.150	-0.006	96	212228	20.0	23.5	
16 Ethanol	45	3.211	3.223	-0.012	30	83038	1000.0	1314.1	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.430	3.448	-0.018	95	133182	20.0	21.0	
18 Acrolein	56	3.533	3.539	-0.006	100	242481	150.0	110.3	
20 1,1-Dichloroethene	96	3.685	3.692	-0.007	97	110595	20.0	21.8	
21 Acetone	58	3.710	3.716	-0.006	99	243188	250.0	277.0	
22 112TCTFE	101	3.710	3.722	-0.012	88	111240	20.0	19.0	
23 Isopropyl alcohol	45	3.856	3.874	-0.018	96	72043	150.0	129.3	
24 Iodomethane	142	3.892	3.898	-0.006	97	180040	20.0	17.3	
25 Carbon disulfide	76	4.002	4.008	-0.006	98	351826	20.0	23.1	
26 Methyl acetate	43	4.148	4.154	-0.006	97	123060	20.0	21.8	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	94	174379	20.0	19.8	
* 29 t-Butyl alcohol-d10 (IS)	65	4.379	4.373	0.006	97	286637	250.0	250.0	
28 Methylene Chloride	84	4.373	4.385	-0.012	90	122551	20.0	21.6	
31 2-Methyl-2-propanol	59	4.519	4.501	0.018	100	233989	200.0	186.0	M
32 Acrylonitrile	53	4.701	4.714	-0.013	100	342167	100.0	122.4	
33 Methyl tert-butyl ether	73	4.780	4.787	-0.007	94	334466	20.0	18.6	
34 trans-1,2-Dichloroethene	96	4.799	4.805	-0.006	100	120269	20.0	20.4	
36 Hexane	57	5.225	5.231	-0.007	90	185989	20.0	21.7	
37 1,1-Dichloroethane	63	5.456	5.468	-0.012	95	201464	20.0	20.5	
39 Isopropyl ether	45	5.510	5.517	-0.007	94	351824	20.0	20.3	
40 2-Chloro-1,3-butadiene	53	5.571	5.577	-0.006	88	172611	20.0	18.4	
41 Tert-butyl ethyl ether	59	6.046	6.052	-0.006	98	342987	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	6.240	6.247	-0.007	99	1145897	250.0	291.3	
44 cis-1,2-Dichloroethene	96	6.289	6.301	-0.012	81	134266	20.0	20.1	
45 2,2-Dichloropropane	77	6.307	6.320	-0.013	69	178114	20.0	17.9	
46 Propionitrile	54	6.332	6.332	0.000	99	220072	150.0	156.1	
47 Methacrylonitrile	67	6.551	6.557	-0.006	90	546732	150.0	174.2	
48 Chlorobromomethane	128	6.630	6.636	-0.006	66	64417	20.0	17.7	
49 Tetrahydrofuran	71	6.636	6.636	0.000	81	136152	100.0	95.5	
50 Chloroform	83	6.776	6.782	-0.006	92	192193	20.0	17.9	
$ 51 Dibromofluoromethane (Surr)	113	6.989	7.001	-0.012	94	236415	50.0	45.4	
52 1,1,1-Trichloroethane	97	7.013	7.019	-0.006	98	172504	20.0	16.5	
54 Cyclohexane	56	7.110	7.123	-0.013	88	214336	20.0	21.0	
56 1,1-Dichloropropene	75	7.220	7.226	-0.006	96	163716	20.0	19.8	
55 Carbon tetrachloride	117	7.226	7.226	0.000	82	148367	20.0	15.8	
58 Isobutyl alcohol	41	7.342	7.342	0.000	96	187344	500.0	474.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	95	63957	50.0	50.3	
60 Benzene	78	7.488	7.494	-0.006	96	498567	20.0	21.1	
61 1,2-Dichloroethane	62	7.555	7.561	-0.006	97	144391	20.0	16.8	
62 Tert-amyl methyl ether	73	7.670	7.676	-0.006	99	347044	20.0	19.3	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	994342	50.0	50.0	
65 n-Heptane	43	7.895	7.901	-0.006	89	162646	20.0	19.0	
66 n-Butanol	56	8.230	8.230	0.000	86	301311	1000.0	987.6	
67 Trichloroethene	95	8.370	8.376	-0.006	98	124158	20.0	19.2	
68 Methylcyclohexane	83	8.686	8.692	-0.006	92	240292	20.0	19.7	
70 1,2-Dichloropropane	63	8.710	8.710	0.000	71	124896	20.0	21.7	
69 2-ethoxy-2-methyl butane	87	8.710	8.710	0.000	94	186809	20.0	19.0	
71 Methyl methacrylate	69	8.783	8.783	0.000	90	108855	20.0	20.4	
72 1,4-Dioxane	88	8.783	8.790	-0.007	43	41140	500.0	672.0	M
74 Dibromomethane	93	8.820	8.826	-0.006	97	73834	20.0	18.4	
75 Dichlorobromomethane	83	9.051	9.057	-0.006	100	146754	20.0	18.2	
77 2-Nitropropane	41	9.307	9.313	-0.006	99	40543	20.0	12.2	
78 2-Chloroethyl vinyl ether	63	9.404	9.404	0.000	91	90640	20.0	21.4	
79 cis-1,3-Dichloropropene	75	9.586	9.593	-0.007	97	197387	20.0	20.6	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	2192047	250.0	265.4	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1005806	50.0	53.3	
82 Toluene	92	9.970	9.970	0.000	98	319638	20.0	21.5	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	180467	20.0	21.9	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	181878	20.0	21.7	
86 1,1,2-Trichloroethane	97	10.426	10.426	0.000	89	111193	20.0	20.9	
87 Tetrachloroethene	166	10.511	10.517	-0.006	96	129753	20.0	17.0	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	88	186492	20.0	21.8	
89 2-Hexanone	43	10.627	10.627	0.000	95	1686528	250.0	292.1	
90 Chlorodibromomethane	129	10.797	10.797	0.000	90	117782	20.0	18.5	
91 Ethylene Dibromide	107	10.913	10.913	0.000	98	117392	20.0	20.0	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	-0.001	85	759252	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	94	182047	20.0	20.3	
95 Chlorobenzene	112	11.363	11.363	0.000	96	352807	20.0	20.3	
96 1,1,1,2-Tetrachloroethane	131	11.442	11.448	-0.006	95	116766	20.0	18.0	
97 Ethylbenzene	91	11.448	11.448	0.000	98	628368	20.0	21.1	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	494877	40.0	41.1	
99 o-Xylene	106	11.892	11.892	0.000	95	246243	20.0	20.7	
100 Styrene	104	11.904	11.904	0.000	95	401823	20.0	20.8	
101 Bromoform	173	12.069	12.069	0.000	97	80345	20.0	16.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Isopropylbenzene	105	12.190	12.190	0.000	95	649236	20.0	20.4	
103 Cyclohexanone	55	12.263	12.269	-0.006	89	127823	500.0	503.4	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	363236	50.0	48.3	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	95	183263	20.0	25.3	
106 Bromobenzene	156	12.452	12.458	-0.006	84	144229	20.0	19.2	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	88	223011	100.0	86.7	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	82	55680	20.0	21.7	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	749112	20.0	23.1	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	149571	20.0	21.0	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	522511	20.0	21.5	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	152230	20.0	21.0	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	110768	20.0	19.9	
115 1,2,4-Trimethylbenzene	105	12.938	12.939	-0.001	96	535997	20.0	21.5	
116 sec-Butylbenzene	105	13.060	13.060	0.000	93	666494	20.0	22.1	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	96	279066	20.0	19.7	
118 4-Isopropyltoluene	119	13.164	13.170	-0.006	97	568830	20.0	20.9	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	409217	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	95	285303	20.0	19.7	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	526313	20.0	21.2	
122 Benzyl chloride	91	13.310	13.310	0.000	98	381968	20.0	23.2	
123 1,3-Diethylbenzene	119	13.364	13.364	0.000	96	331755	20.0	20.4	
124 p-Diethylbenzene	119	13.437	13.443	-0.006	94	350581	20.0	20.5	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	281310	20.0	22.2	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	99	264241	20.0	19.5	
127 o-diethylbenzene	119	13.510	13.510	0.000	95	273382	20.0	20.4	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	87	42316	20.0	22.4	
130 1,3,5-Trichlorobenzene	180	14.167	14.167	0.000	98	171588	20.0	17.3	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	95	154032	20.0	17.7	
132 Hexachlorobutadiene	225	14.672	14.672	0.000	98	57758	20.0	15.7	
133 Naphthalene	128	14.776	14.776	0.000	96	606372	20.0	21.6	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	147810	20.0	18.0	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	93	300754	20.0	18.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00009	Amount Added: 50.00	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 50.00	Units: uL	
MSV_QCYC_00005	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00014	Amount Added: 50.00	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 06-Jul-2021 11:12:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06L01.D

Injection Date: 06-Jul-2021 09:47:30 Instrument ID: 7159 Operator ID: lcp00895

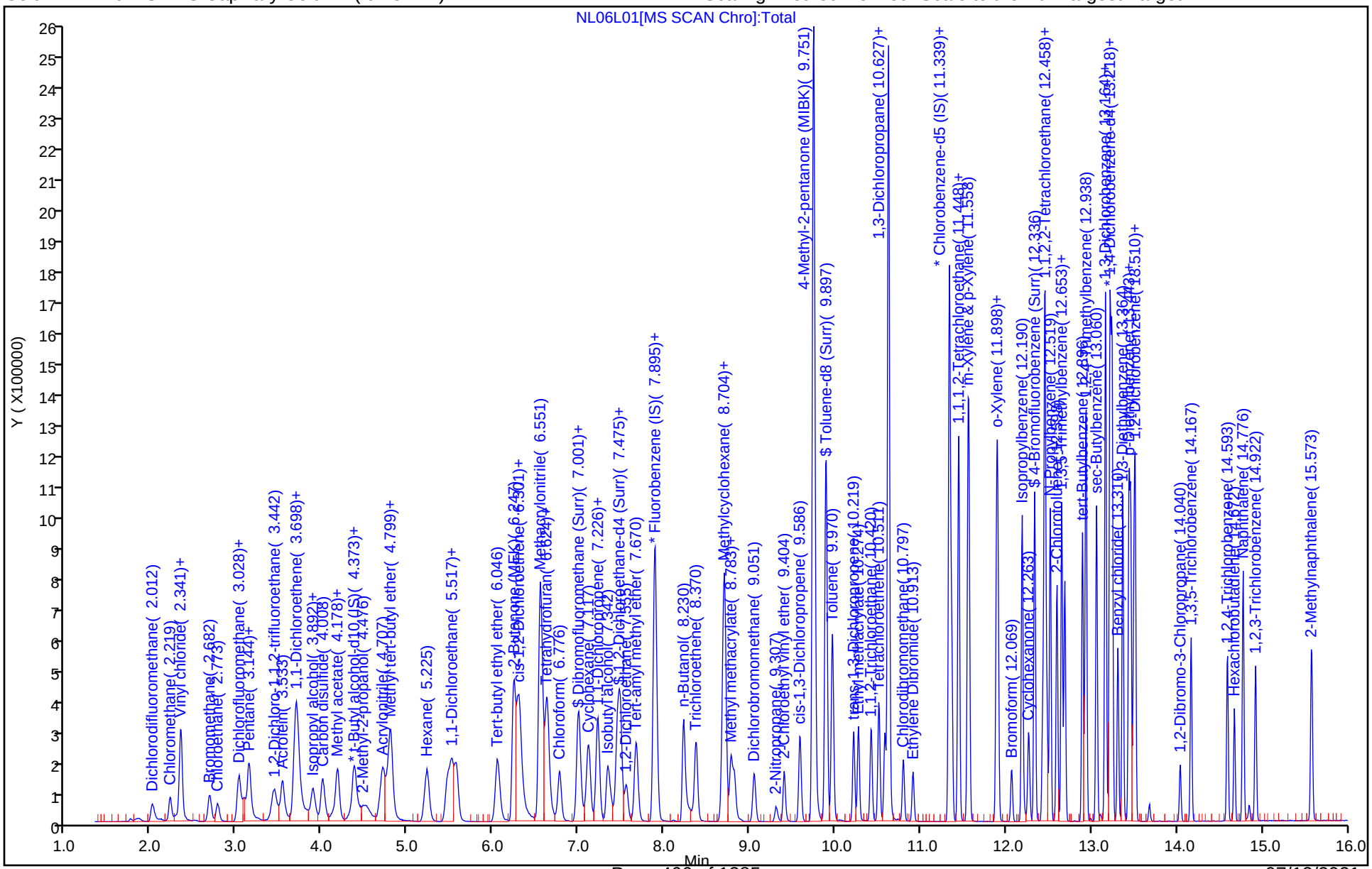
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145456/4

Matrix: Water Lab File ID: NL06L35.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 21:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	19.4		1.0	0.30
100-41-4	Ethylbenzene	18.9		1.0	0.40
108-88-3	Toluene	19.4		1.0	0.20
1330-20-7	Xylenes, Total	56.6		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.2		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06L35.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Jul-2021 21:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033637-004
Misc. Info.: LCS
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 23:08:36 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1626

First Level Reviewer: proctore Date: 06-Jul-2021 21:34:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.019	2.019	0.000	99	94713	20.0	14.5	
6 Chloromethane	50	2.226	2.219	0.007	99	102181	20.0	17.5	
8 Vinyl chloride	62	2.347	2.335	0.012	98	99189	20.0	17.2	
9 Butadiene	39	2.359	2.347	0.012	89	113266	20.0	21.5	
10 Bromomethane	94	2.694	2.688	0.006	89	84016	20.0	18.2	
11 Chloroethane	64	2.785	2.779	0.006	99	70760	20.0	18.6	
12 Dichlorofluoromethane	67	3.035	3.022	0.013	97	162957	20.0	17.8	
13 Trichlorofluoromethane	101	3.089	3.083	0.006	97	131684	20.0	13.1	
15 Pentane	43	3.150	3.150	0.000	97	153119	20.0	18.2	M
16 Ethanol	45	3.229	3.223	0.006	22	74104	1000.0	1283.4	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.448	3.436	0.012	91	101447	20.0	17.1	
18 Acrolein	56	3.546	3.533	0.013	99	236237	150.0	117.6	
20 1,1-Dichloroethene	96	3.698	3.686	0.012	95	83215	20.0	17.6	
21 Acetone	58	3.710	3.710	0.000	100	207333	250.0	258.5	
22 112TCTFE	101	3.722	3.716	0.006	50	83126	20.0	15.2	
23 Isopropyl alcohol	45	3.856	3.856	0.000	95	61643	150.0	121.0	
24 Iodomethane	142	3.899	3.892	0.007	96	157171	20.0	16.2	
25 Carbon disulfide	76	4.014	4.002	0.012	98	270127	20.0	19.0	
26 Methyl acetate	43	4.154	4.142	0.012	97	111050	20.0	21.1	
27 3-Chloro-1-propene	41	4.191	4.178	0.013	93	137687	20.0	16.8	
* 29 t-Butyl alcohol-d10 (IS)	65	4.385	4.361	0.024	96	261921	250.0	250.0	
28 Methylene Chloride	84	4.385	4.373	0.012	90	108181	20.0	20.4	
31 2-Methyl-2-propanol	59	4.519	4.489	0.030	100	194564	200.0	169.3	
32 Acrylonitrile	53	4.720	4.708	0.012	99	304528	100.0	116.9	
33 Methyl tert-butyl ether	73	4.787	4.787	0.000	93	306050	20.0	18.2	
34 trans-1,2-Dichloroethene	96	4.811	4.811	0.000	99	96668	20.0	17.6	
36 Hexane	57	5.231	5.225	0.006	90	133818	20.0	16.7	
37 1,1-Dichloroethane	63	5.468	5.462	0.006	96	170493	20.0	18.6	
39 Isopropyl ether	45	5.523	5.517	0.006	94	305677	20.0	18.9	
40 2-Chloro-1,3-butadiene	53	5.578	5.571	0.007	89	134139	20.0	15.3	
41 Tert-butyl ethyl ether	59	6.058	6.052	0.006	97	307419	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	6.247	6.241	0.006	99	1020417	250.0	278.4	
44 cis-1,2-Dichloroethene	96	6.308	6.295	0.013	79	115523	20.0	18.6	
45 2,2-Dichloropropane	77	6.320	6.314	0.006	78	143437	20.0	15.5	
46 Propionitrile	54	6.332	6.326	0.006	98	167432	150.0	129.9	
47 Methacrylonitrile	67	6.563	6.557	0.006	89	490788	150.0	167.8	
49 Tetrahydrofuran	71	6.636	6.630	0.006	83	120908	100.0	92.8	
48 Chlorobromomethane	128	6.630	6.636	-0.006	63	59207	20.0	17.4	
50 Chloroform	83	6.782	6.776	0.006	93	172226	20.0	17.2	
$ 51 Dibromofluoromethane (Surr)	113	7.001	6.995	0.006	93	221115	50.0	45.6	
52 1,1,1-Trichloroethane	97	7.013	7.013	0.000	98	142609	20.0	14.6	
54 Cyclohexane	56	7.117	7.123	-0.006	89	161134	20.0	17.0	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	97	131967	20.0	17.1	
55 Carbon tetrachloride	117	7.232	7.232	0.000	81	119726	20.0	13.7	
58 Isobutyl alcohol	41	7.348	7.342	0.006	95	171228	500.0	474.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.464	7.451	0.013	92	59662	50.0	50.4	
60 Benzene	78	7.494	7.488	0.006	95	428211	20.0	19.4	
61 1,2-Dichloroethane	62	7.567	7.561	0.006	97	129838	20.0	16.2	
62 Tert-amyl methyl ether	73	7.676	7.676	0.000	99	316284	20.0	18.9	
* 64 Fluorobenzene (IS)	96	7.895	7.889	0.006	99	926614	50.0	50.0	
65 n-Heptane	43	7.902	7.901	0.001	88	122824	20.0	15.4	
66 n-Butanol	56	8.236	8.230	0.006	86	304127	1000.0	1090.9	
67 Trichloroethene	95	8.376	8.376	0.000	98	102652	20.0	17.0	
68 Methylcyclohexane	83	8.698	8.692	0.006	93	183748	20.0	16.2	
70 1,2-Dichloropropane	63	8.717	8.711	0.006	72	111209	20.0	20.7	
69 2-ethoxy-2-methyl butane	87	8.711	8.711	0.000	92	170251	20.0	18.6	
71 Methyl methacrylate	69	8.784	8.784	0.000	90	98800	20.0	19.9	
72 1,4-Dioxane	88	8.796	8.790	0.006	40	36468	500.0	651.9	M
74 Dibromomethane	93	8.826	8.820	0.006	97	68066	20.0	18.3	
75 Dichlorobromomethane	83	9.057	9.051	0.006	99	129760	20.0	17.3	
77 2-Nitropropane	41	9.319	9.313	0.006	95	37491	20.0	12.3	
78 2-Chloroethyl vinyl ether	63	9.410	9.404	0.006	91	81092	20.0	20.5	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	173038	20.0	19.4	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	1969100	250.0	255.9	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	951911	50.0	53.3	
82 Toluene	92	9.970	9.970	0.000	98	272740	20.0	19.4	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	90	164363	20.0	21.1	
85 Ethyl methacrylate	69	10.280	10.274	0.006	88	164205	20.0	20.7	
86 1,1,2-Trichloroethane	97	10.426	10.426	0.000	89	100866	20.0	20.1	
87 Tetrachloroethene	166	10.517	10.517	0.000	95	106013	20.0	14.7	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	87	171403	20.0	21.2	
89 2-Hexanone	43	10.627	10.627	0.000	94	1525332	250.0	279.3	
90 Chlorodibromomethane	129	10.803	10.797	0.006	89	108378	20.0	18.0	
91 Ethylene Dibromide	107	10.913	10.913	0.000	99	108031	20.0	19.5	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	718009	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	95	143215	20.0	16.9	
95 Chlorobenzene	112	11.363	11.363	0.000	96	314504	20.0	19.1	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	97	105315	20.0	17.2	
97 Ethylbenzene	91	11.448	11.448	0.000	98	532033	20.0	18.9	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	99	430003	40.0	37.8	
99 o-Xylene	106	11.892	11.892	0.000	96	210942	20.0	18.8	
100 Styrene	104	11.905	11.904	0.000	94	359364	20.0	19.7	
101 Bromoform	173	12.069	12.069	0.000	96	75478	20.0	16.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Isopropylbenzene	105	12.190	12.190	0.000	95	549601	20.0	18.3	
103 Cyclohexanone	55	12.270	12.269	0.001	90	132025	500.0	569.0	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	89	343952	50.0	48.3	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	166808	20.0	24.1	
106 Bromobenzene	156	12.452	12.458	-0.006	93	131075	20.0	18.3	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	88	209478	100.0	85.3	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	85	52015	20.0	21.2	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	628703	20.0	20.3	
110 2-Chlorotoluene	126	12.598	12.598	0.000	98	132199	20.0	19.5	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	459515	20.0	19.8	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	134100	20.0	19.4	
113 tert-Butylbenzene	134	12.896	12.896	0.000	91	90449	20.0	17.0	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	97	471176	20.0	19.8	
116 sec-Butylbenzene	105	13.060	13.060	0.000	93	553785	20.0	19.2	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	252791	20.0	18.7	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	486639	20.0	18.8	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	390647	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	93	258591	20.0	18.7	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	472756	20.0	20.0	
122 Benzyl chloride	91	13.310	13.310	0.000	98	348847	20.0	22.2	
123 1,3-Diethylbenzene	119	13.371	13.371	0.000	96	288430	20.0	18.6	
124 p-Diethylbenzene	119	13.444	13.444	0.000	96	300007	20.0	18.4	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	233168	20.0	19.3	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	99	243368	20.0	18.8	
127 o-diethylbenzene	119	13.517	13.510	0.007	93	239905	20.0	18.8	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	89	38417	20.0	21.3	
130 1,3,5-Trichlorobenzene	180	14.168	14.168	0.000	98	159952	20.0	16.9	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	148858	20.0	17.9	
132 Hexachlorobutadiene	225	14.673	14.672	0.001	97	51807	20.0	14.8	
133 Naphthalene	128	14.776	14.776	0.000	96	570683	20.0	21.3	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	95	138904	20.0	17.8	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	93	292097	20.0	19.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00009	Amount Added: 50.00	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 50.00	Units: uL	
MSV_QCYC_00005	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00014	Amount Added: 50.00	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 06-Jul-2021 23:08:42 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33637.b\NL06L35.D

Injection Date: 06-Jul-2021 21:12:30 Instrument ID: 7159 Operator ID: etp33087

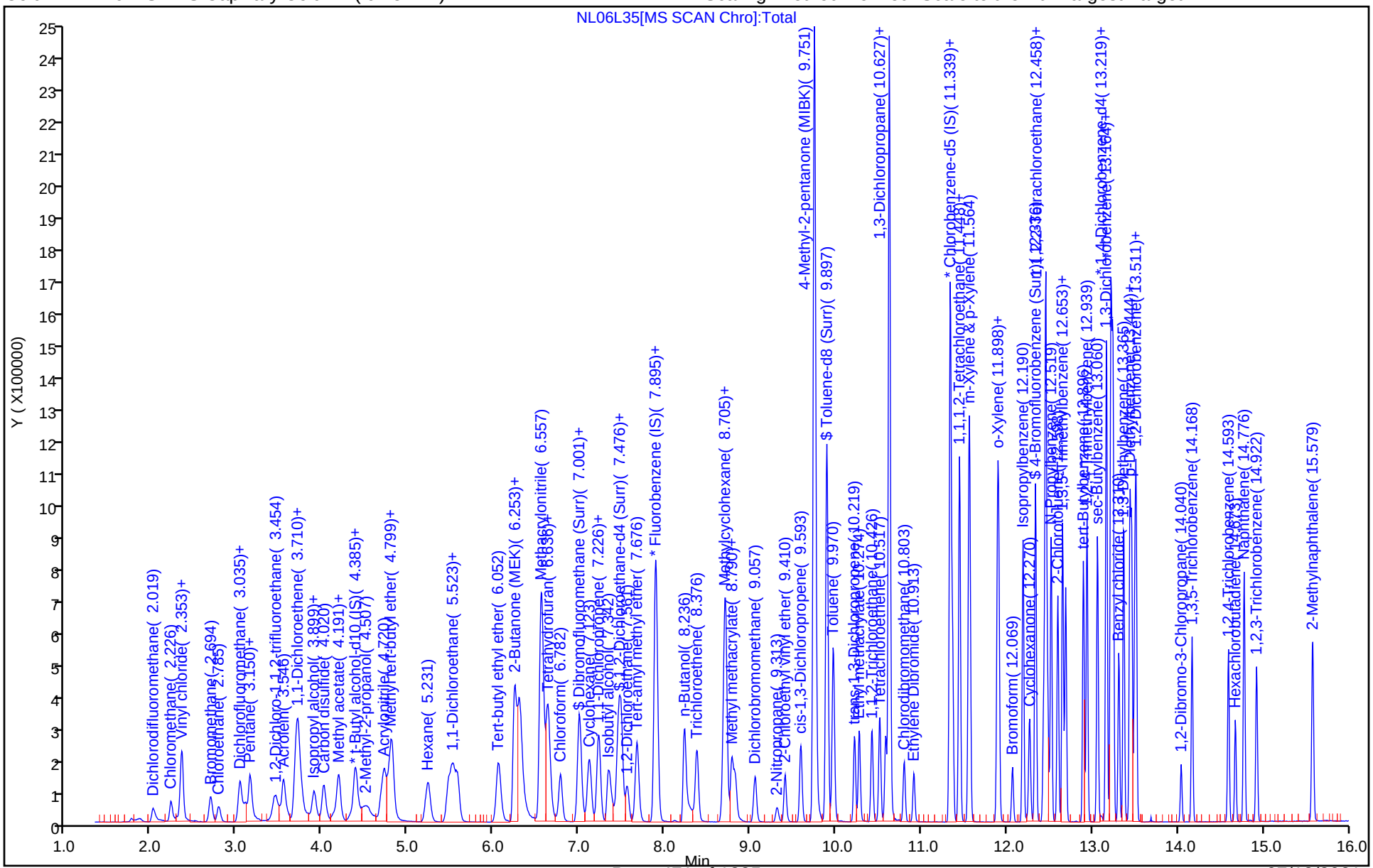
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145954/4

Matrix: Water Lab File ID: NL07L35.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/07/2021 21:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145954 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	19.9		1.0	0.30
100-41-4	Ethylbenzene	19.6		1.0	0.40
108-88-3	Toluene	20.1		1.0	0.20
1330-20-7	Xylenes, Total	58.2		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.3		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07L35.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Jul-2021 21:21:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033734-004
Misc. Info.: LCS
Operator ID: etp33087 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 22:36:11 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1641

First Level Reviewer: proctore Date: 07-Jul-2021 21:51:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.012	2.019	-0.007	99	90563	20.0	13.0	M
6 Chloromethane	50	2.219	2.225	-0.006	99	102488	20.0	16.4	
8 Vinyl chloride	62	2.341	2.347	-0.006	98	105002	20.0	17.0	
9 Butadiene	39	2.353	2.359	-0.006	90	132034	20.0	23.5	
10 Bromomethane	94	2.688	2.694	-0.006	90	85399	20.0	17.3	
11 Chloroethane	64	2.779	2.791	-0.012	99	73771	20.0	18.2	
12 Dichlorofluoromethane	67	3.028	3.035	-0.007	97	178075	20.0	18.2	
13 Trichlorofluoromethane	101	3.095	3.089	0.006	97	138545	20.0	12.9	
15 Pentane	43	3.150	3.150	0.000	98	175222	20.0	19.5	
16 Ethanol	45	3.223	3.217	0.006	22	75160	1000.0	1218.5	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.442	-0.006	92	111523	20.0	17.7	
18 Acrolein	56	3.539	3.540	-0.001	99	257997	150.0	120.2	
20 1,1-Dichloroethene	96	3.685	3.692	-0.007	97	93644	20.0	18.5	
21 Acetone	58	3.710	3.716	-0.006	100	224651	250.0	262.2	
22 112TCTFE	101	3.716	3.728	-0.012	83	92039	20.0	15.8	
23 Isopropyl alcohol	45	3.874	3.880	-0.006	33	58459	150.0	107.4	
24 Iodomethane	142	3.898	3.898	0.000	98	165517	20.0	15.9	
25 Carbon disulfide	76	4.008	4.014	-0.006	99	301839	20.0	19.9	
26 Methyl acetate	43	4.148	4.148	0.000	97	122357	20.0	21.8	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	94	157077	20.0	18.0	
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.379	-0.006	97	279806	250.0	250.0	
28 Methylene Chloride	84	4.385	4.379	0.006	90	114826	20.0	20.3	
31 2-Methyl-2-propanol	59	4.513	4.501	0.012	100	196759	200.0	160.2	
32 Acrylonitrile	53	4.714	4.708	0.006	99	325561	100.0	117.0	
33 Methyl tert-butyl ether	73	4.781	4.793	-0.013	94	327838	20.0	18.3	
34 trans-1,2-Dichloroethene	96	4.805	4.811	-0.006	99	109754	20.0	18.7	
36 Hexane	57	5.231	5.231	0.000	90	155625	20.0	18.2	
37 1,1-Dichloroethane	63	5.468	5.468	0.000	95	188028	20.0	19.2	
39 Isopropyl ether	45	5.511	5.523	-0.012	94	336565	20.0	19.5	
40 2-Chloro-1,3-butadiene	53	5.571	5.578	-0.007	89	151917	20.0	16.3	
41 Tert-butyl ethyl ether	59	6.058	6.058	0.000	97	334060	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	6.247	6.247	0.000	99	1115463	250.0	285.1	
44 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	80	126292	20.0	19.0	
45 2,2-Dichloropropane	77	6.307	6.314	-0.007	65	155672	20.0	15.7	
46 Propionitrile	54	6.332	6.338	-0.006	99	209702	150.0	152.3	
47 Methacrylonitrile	67	6.557	6.563	-0.006	90	532880	150.0	170.7	
49 Tetrahydrofuran	71	6.630	6.636	-0.006	84	133553	100.0	96.0	
48 Chlorobromomethane	128	6.636	6.636	0.000	88	61342	20.0	16.9	
50 Chloroform	83	6.776	6.782	-0.006	93	188218	20.0	17.6	
$ 51 Dibromofluoromethane (Surr)	113	6.995	6.995	0.000	94	232616	50.0	45.0	
52 1,1,1-Trichloroethane	97	7.013	7.019	-0.006	97	157502	20.0	15.1	
54 Cyclohexane	56	7.117	7.123	-0.006	88	184583	20.0	18.2	
56 1,1-Dichloropropene	75	7.226	7.226	0.000	97	148964	20.0	18.1	
55 Carbon tetrachloride	117	7.226	7.238	-0.012	79	129892	20.0	13.9	
58 Isobutyl alcohol	41	7.342	7.348	-0.006	96	184746	500.0	479.4	M
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.457	-0.006	98	64520	50.0	51.0	
60 Benzene	78	7.488	7.494	-0.006	96	467772	20.0	19.9	
61 1,2-Dichloroethane	62	7.561	7.561	0.000	97	138630	20.0	16.2	
62 Tert-amyl methyl ether	73	7.670	7.676	-0.006	99	336890	20.0	18.9	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	989093	50.0	50.0	
65 n-Heptane	43	7.901	7.908	-0.007	89	144009	20.0	16.9	
66 n-Butanol	56	8.230	8.236	-0.006	86	323092	1000.0	1084.8	
67 Trichloroethene	95	8.376	8.376	0.000	97	112577	20.0	17.5	
68 Methylcyclohexane	83	8.686	8.692	-0.006	93	209079	20.0	17.2	
69 2-ethoxy-2-methyl butane	87	8.710	8.711	-0.001	94	185088	20.0	18.9	
70 1,2-Dichloropropane	63	8.710	8.717	-0.007	71	120395	20.0	21.0	
71 Methyl methacrylate	69	8.783	8.784	-0.001	93	108596	20.0	20.5	
72 1,4-Dioxane	88	8.796	8.796	0.000	39	36283	500.0	607.1	
74 Dibromomethane	93	8.820	8.826	-0.006	97	72394	20.0	18.2	
75 Dichlorobromomethane	83	9.051	9.057	-0.006	99	140685	20.0	17.6	
77 2-Nitropropane	41	9.313	9.313	0.000	98	39995	20.0	12.3	
78 2-Chloroethyl vinyl ether	63	9.410	9.410	0.000	91	88411	20.0	21.0	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	191009	20.0	20.1	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	2142719	250.0	260.8	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1011339	50.0	53.4	
82 Toluene	92	9.970	9.970	0.000	98	299907	20.0	20.1	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	175153	20.0	21.2	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	179257	20.0	21.3	
86 1,1,2-Trichloroethane	97	10.420	10.426	-0.006	88	108761	20.0	20.4	
87 Tetrachloroethene	166	10.517	10.517	0.000	96	117821	20.0	15.4	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	88	182582	20.0	21.3	
89 2-Hexanone	43	10.627	10.627	0.000	95	1664010	250.0	287.1	
90 Chlorodibromomethane	129	10.803	10.803	0.000	90	112119	20.0	17.5	
91 Ethylene Dibromide	107	10.913	10.913	0.000	97	116089	20.0	19.7	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	762224	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	94	164358	20.0	18.2	
95 Chlorobenzene	112	11.363	11.363	0.000	96	341574	20.0	19.5	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	96	113150	20.0	17.4	
97 Ethylbenzene	91	11.448	11.448	0.000	97	584536	20.0	19.6	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	469816	40.0	38.9	
99 o-Xylene	106	11.892	11.892	0.000	96	229640	20.0	19.3	
100 Styrene	104	11.904	11.904	0.000	95	387142	20.0	20.0	
101 Bromoform	173	12.069	12.069	0.000	97	78672	20.0	16.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Isopropylbenzene	105	12.190	12.190	0.000	95	595860	20.0	18.6	
103 Cyclohexanone	55	12.263	12.263	0.000	90	135283	500.0	545.8	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	88	366390	50.0	48.5	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	176950	20.0	24.3	
106 Bromobenzene	156	12.452	12.458	-0.006	96	136114	20.0	18.1	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	90	214843	100.0	83.2	
108 1,2,3-Trichloropropane	110	12.476	12.482	-0.006	82	56102	20.0	21.7	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	691605	20.0	21.3	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	142187	20.0	19.9	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	488229	20.0	20.0	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	144414	20.0	19.9	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	99629	20.0	17.8	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	97	511108	20.0	20.4	
116 sec-Butylbenzene	105	13.060	13.060	0.000	93	614769	20.0	20.3	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	268936	20.0	18.9	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	534518	20.0	19.6	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	410651	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	95	279218	20.0	19.2	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	505883	20.0	20.3	
122 Benzyl chloride	91	13.310	13.310	0.000	98	363770	20.0	22.0	
123 1,3-Diethylbenzene	119	13.371	13.371	-0.001	95	309608	20.0	19.0	
124 p-Diethylbenzene	119	13.437	13.444	-0.007	96	328671	20.0	19.1	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	260050	20.0	20.5	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	260267	20.0	19.2	
127 o-diethylbenzene	119	13.517	13.517	-0.001	94	257246	20.0	19.1	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	87	42130	20.0	22.2	
130 1,3,5-Trichlorobenzene	180	14.167	14.168	-0.001	97	165114	20.0	16.6	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	155922	20.0	17.9	
132 Hexachlorobutadiene	225	14.672	14.679	-0.007	98	54620	20.0	14.8	
133 Naphthalene	128	14.776	14.776	0.000	96	592733	20.0	21.0	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	144885	20.0	17.6	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	291870	20.0	18.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00009	Amount Added: 50.00	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 50.00	Units: uL	
MSV_QCYC_00005	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00014	Amount Added: 50.00	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 07-Jul-2021 22:36:18 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210707-33734.b\NL07L35.D

Injection Date: 07-Jul-2021 21:21:30 Instrument ID: 7159 Operator ID: etp33087

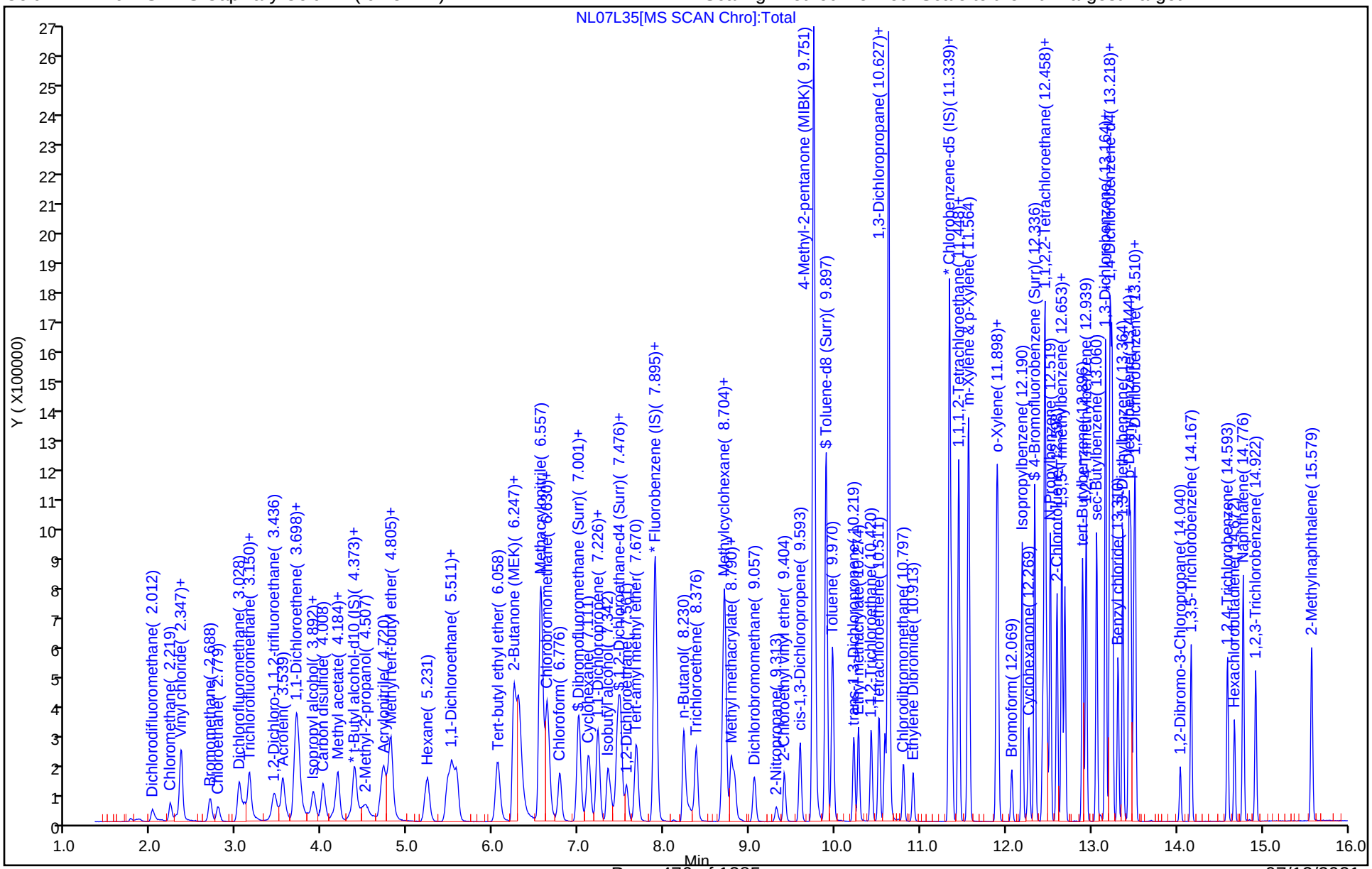
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8D-20210623 MS Lab Sample ID: 410-45105-5 MS

Matrix: Groundwater Lab File ID: NL06S03.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:49

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 11:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	22.3		1.0	0.30
100-41-4	Ethylbenzene	22.2		1.0	0.40
108-88-3	Toluene	22.7		1.0	0.20
1330-20-7	Xylenes, Total	65.1		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.4		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S03.D
Lims ID: 410-45105-C-5 MS
Client ID: MW-8D-20210623
Sample Type: MS
Inject. Date: 06-Jul-2021 11:42:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-010
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.012	2.019	-0.007	99	140162	20.0	19.9	
6 Chloromethane	50	2.219	2.225	-0.006	99	129788	20.0	20.6	
8 Vinyl chloride	62	2.335	2.341	-0.006	98	141179	20.0	22.7	
9 Butadiene	39	2.347	2.353	-0.006	89	155790	20.0	27.5	
10 Bromomethane	94	2.682	2.694	-0.012	90	100238	20.0	20.2	
11 Chloroethane	64	2.779	2.785	-0.006	99	91196	20.0	22.3	
12 Dichlorofluoromethane	67	3.022	3.028	-0.006	97	210445	20.0	21.4	
13 Trichlorofluoromethane	101	3.083	3.089	-0.006	98	188517	20.0	17.4	
15 Pentane	43	3.144	3.150	-0.006	98	233112	20.0	25.8	
16 Ethanol	45	3.229	3.223	0.006	93	52153	1000.0	780.3	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.448	-0.012	93	140718	20.0	22.1	
18 Acrolein	56	3.539	3.539	0.000	99	254378	150.0	109.4	
20 1,1-Dichloroethene	96	3.685	3.692	-0.007	97	118121	20.0	23.2	
21 Acetone	58	3.704	3.716	-0.012	100	216522	250.0	233.2	
22 112TCTFE	101	3.716	3.722	-0.006	53	122165	20.0	20.8	
23 Isopropyl alcohol	45	3.880	3.874	0.006	40	75561	150.0	128.2	
24 Iodomethane	142	3.892	3.898	-0.006	96	189280	20.0	18.1	
25 Carbon disulfide	76	4.002	4.008	-0.006	99	374698	20.0	24.6	
26 Methyl acetate	43	4.148	4.154	-0.006	97	124332	20.0	22.0	
27 3-Chloro-1-propene	41	4.178	4.184	-0.006	93	181755	20.0	20.6	
* 29 t-Butyl alcohol-d10 (IS)	65	4.367	4.373	-0.006	97	303172	250.0	250.0	
28 Methylene Chloride	84	4.385	4.385	0.000	92	123392	20.0	21.7	
31 2-Methyl-2-propanol	59	4.501	4.501	0.000	100	225706	200.0	169.6	
32 Acrylonitrile	53	4.720	4.714	0.006	100	325734	100.0	116.3	
33 Methyl tert-butyl ether	73	4.787	4.787	0.000	94	331826	20.0	18.4	
34 trans-1,2-Dichloroethene	96	4.799	4.805	-0.006	99	127550	20.0	21.6	
36 Hexane	57	5.219	5.231	-0.012	90	200780	20.0	23.3	
37 1,1-Dichloroethane	63	5.462	5.468	-0.006	96	210763	20.0	21.4	
39 Isopropyl ether	45	5.511	5.517	-0.006	94	352802	20.0	20.3	
40 2-Chloro-1,3-butadiene	53	5.571	5.577	-0.006	89	186500	20.0	19.8	
41 Tert-butyl ethyl ether	59	6.052	6.052	0.000	98	344616	20.0	19.6	
43 2-Butanone (MEK)	43	6.241	6.247	-0.006	99	1101768	250.0	279.7	
44 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	80	141610	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 2,2-Dichloropropane	77	6.307	6.320	-0.013	71	187436	20.0	18.8	
46 Propionitrile	54	6.326	6.332	-0.006	99	217966	150.0	146.1	
47 Methacrylonitrile	67	6.551	6.557	-0.006	90	530138	150.0	168.7	
48 Chlorobromomethane	128	6.630	6.636	-0.006	65	65739	20.0	18.0	
49 Tetrahydrofuran	71	6.636	6.636	0.000	85	133023	100.0	88.2	
50 Chloroform	83	6.782	6.782	0.000	92	203267	20.0	18.9	
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	94	234951	50.0	45.1	
52 1,1,1-Trichloroethane	97	7.013	7.019	-0.006	98	188991	20.0	18.0	
54 Cyclohexane	56	7.111	7.123	-0.012	87	239779	20.0	23.5	
56 1,1-Dichloropropene	75	7.220	7.226	-0.006	97	181388	20.0	21.9	
55 Carbon tetrachloride	117	7.232	7.226	0.006	80	165196	20.0	17.6	
58 Isobutyl alcohol	41	7.348	7.342	0.006	96	193033	500.0	462.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.451	0.006	92	63746	50.0	50.1	
60 Benzene	78	7.488	7.494	-0.006	96	527986	20.0	22.3	
61 1,2-Dichloroethane	62	7.555	7.561	-0.006	97	139428	20.0	16.2	
62 Tert-amyl methyl ether	73	7.676	7.676	0.000	99	345570	20.0	19.2	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	995862	50.0	50.0	
65 n-Heptane	43	7.901	7.901	0.000	94	181333	20.0	21.1	
66 n-Butanol	56	8.230	8.230	0.000	86	346142	1000.0	1072.6	
67 Trichloroethene	95	8.370	8.376	-0.006	97	130047	20.0	20.0	
68 Methylcyclohexane	83	8.686	8.692	-0.006	93	265671	20.0	21.7	
70 1,2-Dichloropropane	63	8.711	8.710	0.000	72	128143	20.0	22.2	
69 2-ethoxy-2-methyl butane	87	8.711	8.710	0.000	92	194249	20.0	19.7	
71 Methyl methacrylate	69	8.784	8.783	0.001	88	108062	20.0	20.2	
72 1,4-Dioxane	88	8.784	8.790	-0.006	43	41114	500.0	634.9	
74 Dibromomethane	93	8.820	8.826	-0.006	97	72486	20.0	18.1	
75 Dichlorobromomethane	83	9.051	9.057	-0.006	99	147852	20.0	18.3	
77 2-Nitropropane	41	9.313	9.313	0.000	98	40789	20.0	11.6	
78 2-Chloroethyl vinyl ether	63		9.404				20.0	ND	7
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	198664	20.0	20.7	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	2114141	250.0	255.6	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1011428	50.0	53.5	
82 Toluene	92	9.970	9.970	0.000	99	338516	20.0	22.7	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	179648	20.0	21.8	
85 Ethyl methacrylate	69	10.274	10.274	0.000	89	178515	20.0	21.3	
86 1,1,2-Trichloroethane	97	10.426	10.426	0.000	89	111517	20.0	21.0	
87 Tetrachloroethene	166	10.517	10.517	0.000	96	140424	20.0	18.3	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	88	183435	20.0	21.4	
89 2-Hexanone	43	10.627	10.627	0.000	94	1631263	250.0	282.2	
90 Chlorodibromomethane	129	10.803	10.797	0.006	90	116678	20.0	18.3	
91 Ethylene Dibromide	107	10.913	10.913	0.000	99	115118	20.0	19.6	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	760179	50.0	50.0	
94 1-Chlorohexane	91	11.345	11.345	0.000	92	201300	20.0	22.4	
95 Chlorobenzene	112	11.363	11.363	0.000	96	367909	20.0	21.1	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	96	121383	20.0	18.7	
97 Ethylbenzene	91	11.448	11.448	0.000	97	661423	20.0	22.2	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	522804	40.0	43.4	
99 o-Xylene	106	11.892	11.892	0.000	95	257619	20.0	21.7	
100 Styrene	104	11.904	11.904	0.000	95	413338	20.0	21.4	
101 Bromoform	173	12.069	12.069	0.000	96	77403	20.0	15.9	
102 Isopropylbenzene	105	12.190	12.190	0.000	95	689668	20.0	21.6	
103 Cyclohexanone	55	12.269	12.269	0.000	90	144354	500.0	537.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	88	364663	50.0	48.4	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	92	180828	20.0	25.1	
106 Bromobenzene	156	12.458	12.458	0.000	82	144286	20.0	19.4	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	90	227451	100.0	89.1	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	84	55179	20.0	21.6	
109 N-Propylbenzene	91	12.519	12.519	0.000	98	795300	20.0	24.7	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	155517	20.0	22.0	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	556478	20.0	23.1	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	157779	20.0	22.0	
113 tert-Butylbenzene	134	12.896	12.896	0.000	92	116160	20.0	21.0	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	96	561098	20.0	22.7	
116 sec-Butylbenzene	105	13.060	13.060	0.000	93	711901	20.0	23.7	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	97	285609	20.0	20.3	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	610469	20.0	22.6	
* 119 1,4-Dichlorobenzene-d4	152	13.218	13.218	0.000	94	406254	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	95	294736	20.0	20.5	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	546778	20.0	22.2	
122 Benzyl chloride	91	13.310	13.310	0.000	98	373651	20.0	22.8	
123 1,3-Diethylbenzene	119	13.371	13.364	0.007	96	352719	20.0	21.8	
124 p-Diethylbenzene	119	13.437	13.443	-0.006	94	368713	20.0	21.7	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	295603	20.0	23.5	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	270628	20.0	20.1	
127 o-diethylbenzene	119	13.510	13.510	0.000	95	282146	20.0	21.2	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	87	40693	20.0	21.7	
130 1,3,5-Trichlorobenzene	180	14.167	14.167	0.000	98	179119	20.0	18.2	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	157397	20.0	18.2	
132 Hexachlorobutadiene	225	14.672	14.672	0.000	98	62468	20.0	17.1	
133 Naphthalene	128	14.776	14.776	0.000	97	585653	20.0	21.0	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	149125	20.0	18.3	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	92	280816	20.0	17.8	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LCS_Gases_00014	Amount Added: 21.50	Units: uL	
MSV_LCS_2CEVE_00008	Amount Added: 21.50	Units: uL	
MSV_LCS_ACROL_00009	Amount Added: 21.50	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 21.50	Units: uL	
MSV_QCYC_00005	Amount Added: 21.50	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added: 21.50	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

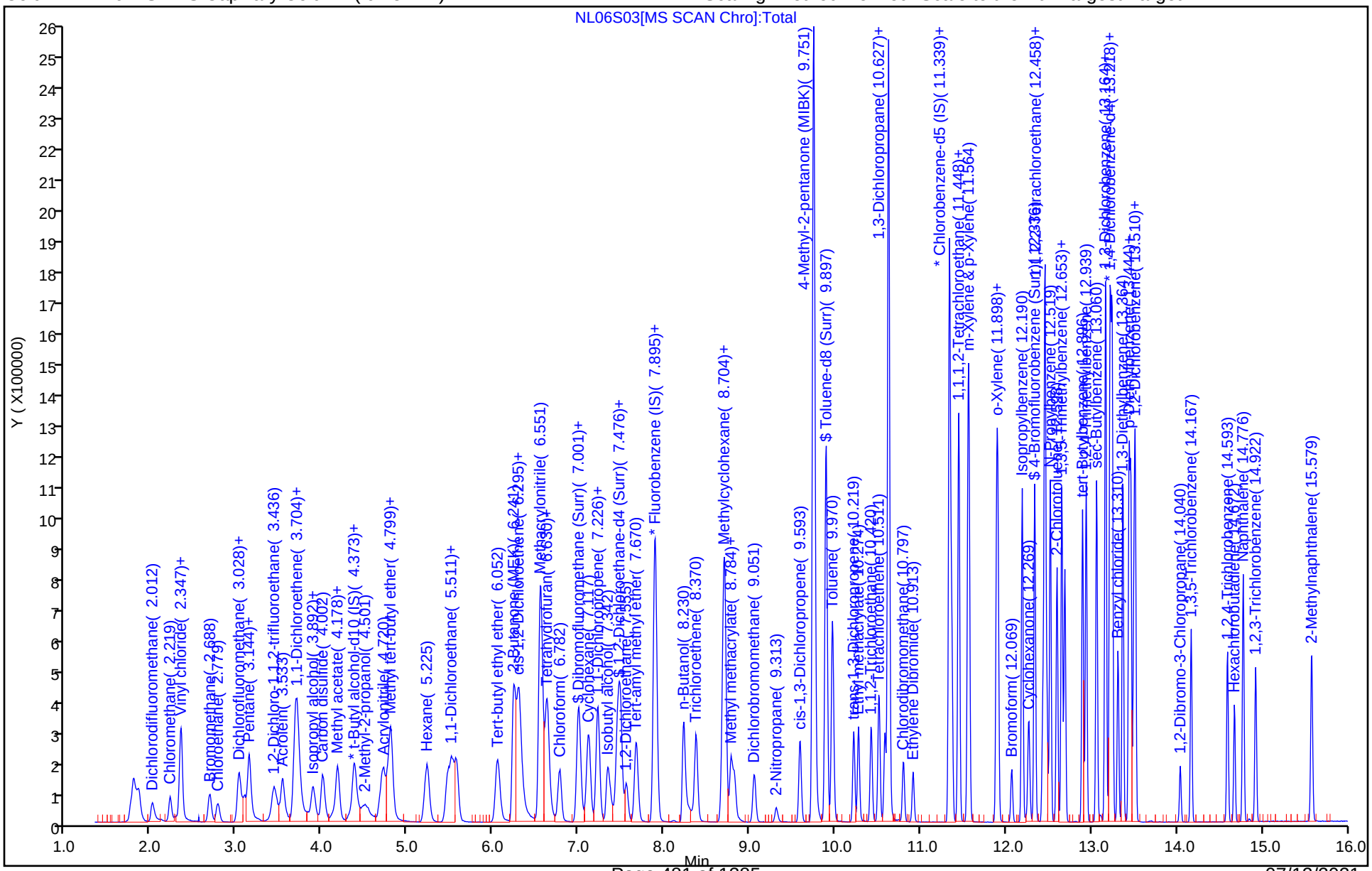
Report Date: 06-Jul-2021 20:48:18 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S03.D

Injection Date:	06-Jul-2021 11:42:30	Instrument ID:	7159	Operator ID:	lcp00895
Lims ID:	410-45105-C-5 MS			Worklist Smp#:	10
Client ID:	MW-8D-20210623				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_7159	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8D-20210623 MSD Lab Sample ID: 410-45105-5 MSD

Matrix: Groundwater Lab File ID: NL06S04.D

Analysis Method: 8260C Date Collected: 06/23/2021 09:49

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2021 12:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145203 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	22.2		1.0	0.30
100-41-4	Ethylbenzene	22.3		1.0	0.40
108-88-3	Toluene	22.9		1.0	0.20
1330-20-7	Xylenes, Total	65.5		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.7		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S04.D
Lims ID: 410-45105-C-5 MSD
Client ID: MW-8D-20210623
Sample Type: MSD
Inject. Date: 06-Jul-2021 12:05:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033575-011
Operator ID: lcp00895 Instrument ID: 7159

Method: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\MSVoa_7159.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 20:48:07 Calib Date: 08-Mar-2021 18:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\7159\20210308-23524.b\NM08X09.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 20:36:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	2.013	2.019	-0.006	99	141694	20.0	20.1	
6 Chloromethane	50	2.219	2.225	-0.006	100	130636	20.0	20.8	
8 Vinyl chloride	62	2.335	2.341	-0.006	97	140809	20.0	22.6	
9 Butadiene	39	2.347	2.353	-0.006	90	154616	20.0	27.3	
10 Bromomethane	94	2.682	2.694	-0.012	89	102597	20.0	20.6	
11 Chloroethane	64	2.779	2.785	-0.006	99	90897	20.0	22.2	
12 Dichlorofluoromethane	67	3.023	3.028	-0.005	98	213332	20.0	21.7	
13 Trichlorofluoromethane	101	3.089	3.089	0.000	97	189762	20.0	17.5	
15 Pentane	43	3.138	3.150	-0.012	97	228520	20.0	25.3	
16 Ethanol	45	3.211	3.223	-0.012	77	42282	1000.0	667.0	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.436	3.448	-0.012	91	143039	20.0	22.5	
18 Acrolein	56	3.534	3.539	-0.005	99	251349	150.0	114.0	
20 1,1-Dichloroethene	96	3.686	3.692	-0.006	97	119921	20.0	23.6	
21 Acetone	58	3.704	3.716	-0.012	100	223078	250.0	253.3	
22 112TCTFE	101	3.716	3.722	-0.006	86	122332	20.0	20.8	
23 Isopropyl alcohol	45	3.838	3.874	-0.036	96	57788	150.0	103.4	
24 Iodomethane	142	3.892	3.898	-0.006	96	191293	20.0	18.3	
25 Carbon disulfide	76	4.002	4.008	-0.006	98	372896	20.0	24.4	
26 Methyl acetate	43	4.148	4.154	-0.006	97	118832	20.0	21.0	
27 3-Chloro-1-propene	41	4.184	4.184	0.000	94	182967	20.0	20.8	
* 29 t-Butyl alcohol-d10 (IS)	65	4.373	4.373	0.000	98	287530	250.0	250.0	
28 Methylene Chloride	84	4.373	4.385	-0.012	89	125613	20.0	22.0	
31 2-Methyl-2-propanol	59	4.507	4.501	0.006	100	225893	200.0	179.0	
32 Acrylonitrile	53	4.714	4.714	0.000	100	317966	100.0	113.5	
33 Methyl tert-butyl ether	73	4.787	4.787	0.000	94	337906	20.0	18.7	
34 trans-1,2-Dichloroethene	96	4.805	4.805	0.000	99	125724	20.0	21.3	
36 Hexane	57	5.225	5.231	-0.006	90	203974	20.0	23.7	
37 1,1-Dichloroethane	63	5.462	5.468	-0.006	96	207676	20.0	21.1	
39 Isopropyl ether	45	5.511	5.517	-0.006	94	354437	20.0	20.4	
40 2-Chloro-1,3-butadiene	53	5.572	5.577	-0.005	89	184400	20.0	19.6	
41 Tert-butyl ethyl ether	59	6.052	6.052	0.000	97	349407	20.0	19.8	
43 2-Butanone (MEK)	43	6.241	6.247	-0.006	100	1072344	250.0	272.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	81	142317	20.0	21.3	
45 2,2-Dichloropropane	77	6.308	6.320	-0.012	85	189242	20.0	19.0	
46 Propionitrile	54	6.326	6.332	-0.006	99	210262	150.0	148.6	
47 Methacrylonitrile	67	6.557	6.557	0.000	90	529266	150.0	168.3	
48 Chlorobromomethane	128	6.630	6.636	-0.006	69	64165	20.0	17.5	
49 Tetrahydrofuran	71	6.630	6.636	-0.006	82	128465	100.0	89.8	
50 Chloroform	83	6.782	6.782	0.000	93	205742	20.0	19.1	
$ 51 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	93	238019	50.0	45.7	
52 1,1,1-Trichloroethane	97	7.013	7.019	-0.006	98	192288	20.0	18.3	
54 Cyclohexane	56	7.111	7.123	-0.012	88	239493	20.0	23.5	
56 1,1-Dichloropropene	75	7.220	7.226	-0.006	96	178735	20.0	21.5	
55 Carbon tetrachloride	117	7.226	7.226	0.000	92	163459	20.0	17.4	
58 Isobutyl alcohol	41	7.336	7.342	-0.006	96	181059	500.0	457.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.451	7.451	0.000	95	62034	50.0	48.7	
60 Benzene	78	7.488	7.494	-0.006	96	525854	20.0	22.2	
61 1,2-Dichloroethane	62	7.561	7.561	0.000	97	147591	20.0	17.1	
62 Tert-amyl methyl ether	73	7.670	7.676	-0.006	99	350068	20.0	19.4	
* 64 Fluorobenzene (IS)	96	7.889	7.895	-0.006	99	996520	50.0	50.0	
65 n-Heptane	43	7.902	7.901	0.001	90	182040	20.0	21.2	
66 n-Butanol	56	8.230	8.230	0.000	86	336771	1000.0	1100.4	
67 Trichloroethene	95	8.376	8.376	0.000	98	130281	20.0	20.1	
68 Methylcyclohexane	83	8.692	8.692	0.000	93	267315	20.0	21.9	
70 1,2-Dichloropropane	63	8.711	8.710	0.001	72	130424	20.0	22.6	
69 2-ethoxy-2-methyl butane	87	8.711	8.710	0.001	96	200525	20.0	20.4	
71 Methyl methacrylate	69	8.784	8.783	0.001	90	107916	20.0	20.2	
72 1,4-Dioxane	88	8.790	8.790	0.000	41	50731	500.0	826.1	
74 Dibromomethane	93	8.820	8.826	-0.006	96	73846	20.0	18.4	
75 Dichlorobromomethane	83	9.057	9.057	0.000	100	148583	20.0	18.4	
77 2-Nitropropane	41	9.307	9.313	-0.006	98	38526	20.0	11.5	
78 2-Chloroethyl vinyl ether	63		9.404				ND	ND	
79 cis-1,3-Dichloropropene	75	9.593	9.593	0.000	97	196012	20.0	20.4	
80 4-Methyl-2-pentanone (MIBK)	43	9.751	9.751	0.000	95	2121878	250.0	256.4	
$ 81 Toluene-d8 (Surr)	98	9.897	9.897	0.000	93	1007605	50.0	53.3	
82 Toluene	92	9.970	9.970	0.000	98	341042	20.0	22.9	
84 trans-1,3-Dichloropropene	75	10.219	10.219	0.000	91	181195	20.0	21.9	
85 Ethyl methacrylate	69	10.274	10.274	0.000	88	180846	20.0	21.6	
86 1,1,2-Trichloroethane	97	10.420	10.426	-0.006	89	113616	20.0	21.4	
87 Tetrachloroethene	166	10.517	10.517	0.000	96	138605	20.0	18.1	
88 1,3-Dichloropropane	76	10.584	10.584	0.000	86	188349	20.0	22.0	
89 2-Hexanone	43	10.627	10.627	0.000	95	1647766	250.0	284.9	
90 Chlorodibromomethane	129	10.797	10.797	0.000	89	120044	20.0	18.8	
91 Ethylene Dibromide	107	10.913	10.913	0.000	99	116430	20.0	19.8	
* 93 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	85	760534	50.0	50.0	
94 1-Chlorohexane	91	11.339	11.345	-0.006	95	201636	20.0	22.4	
95 Chlorobenzene	112	11.363	11.363	0.000	96	373926	20.0	21.4	
96 1,1,1,2-Tetrachloroethane	131	11.448	11.448	0.000	96	120515	20.0	18.5	
97 Ethylbenzene	91	11.448	11.448	0.000	98	663187	20.0	22.3	
98 m-Xylene & p-Xylene	106	11.564	11.564	0.000	100	528210	40.0	43.8	
99 o-Xylene	106	11.892	11.892	0.000	94	257783	20.0	21.7	
100 Styrene	104	11.905	11.904	0.001	94	418894	20.0	21.7	
101 Bromoform	173	12.069	12.069	0.000	96	82066	20.0	16.9	
102 Isopropylbenzene	105	12.190	12.190	0.000	95	688819	20.0	21.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Cyclohexanone	55	12.263	12.269	-0.006	90	138118	500.0	542.2	
$ 104 4-Bromofluorobenzene (Surr)	95	12.336	12.336	0.000	90	368622	50.0	48.9	
105 1,1,2,2-Tetrachloroethane	83	12.434	12.434	0.000	93	182914	20.0	25.3	
106 Bromobenzene	156	12.452	12.458	-0.006	95	148683	20.0	19.9	
107 trans-1,4-Dichloro-2-butene	53	12.458	12.458	0.000	92	228666	100.0	89.1	
108 1,2,3-Trichloropropane	110	12.482	12.482	0.000	84	54095	20.0	21.1	
109 N-Propylbenzene	91	12.519	12.519	0.000	99	806607	20.0	25.0	
110 2-Chlorotoluene	126	12.598	12.598	0.000	97	154141	20.0	21.7	
111 1,3,5-Trimethylbenzene	105	12.653	12.653	0.000	94	560774	20.0	23.1	
112 4-Chlorotoluene	126	12.689	12.689	0.000	97	158828	20.0	22.0	
113 tert-Butylbenzene	134	12.896	12.896	0.000	91	118288	20.0	21.3	
115 1,2,4-Trimethylbenzene	105	12.939	12.939	0.000	97	558752	20.0	22.5	
116 sec-Butylbenzene	105	13.060	13.060	0.000	94	715489	20.0	23.8	
117 1,3-Dichlorobenzene	146	13.164	13.164	0.000	98	290283	20.0	20.5	
118 4-Isopropyltoluene	119	13.170	13.170	0.000	97	613762	20.0	22.6	
* 119 1,4-Dichlorobenzene-d4	152	13.219	13.218	0.001	94	408204	50.0	50.0	
120 1,4-Dichlorobenzene	146	13.237	13.237	0.000	95	297374	20.0	20.6	
121 1,2,3-Trimethylbenzene	105	13.243	13.243	0.000	98	549218	20.0	22.2	
122 Benzyl chloride	91	13.310	13.310	0.000	98	375577	20.0	22.9	
123 1,3-Diethylbenzene	119	13.365	13.364	0.001	95	353933	20.0	21.8	
124 p-Diethylbenzene	119	13.438	13.443	-0.005	96	375031	20.0	22.0	
125 n-Butylbenzene	92	13.462	13.462	0.000	97	295308	20.0	23.4	
126 1,2-Dichlorobenzene	146	13.498	13.498	0.000	98	275996	20.0	20.4	
127 o-diethylbenzene	119	13.511	13.510	0.001	95	288046	20.0	21.5	
129 1,2-Dibromo-3-Chloropropane	75	14.040	14.040	0.000	86	41792	20.0	22.1	
130 1,3,5-Trichlorobenzene	180	14.168	14.167	0.001	97	178376	20.0	18.0	
131 1,2,4-Trichlorobenzene	180	14.593	14.593	0.000	94	161467	20.0	18.6	
132 Hexachlorobutadiene	225	14.673	14.672	0.001	98	63294	20.0	17.3	
133 Naphthalene	128	14.776	14.776	0.000	97	596019	20.0	21.2	
134 1,2,3-Trichlorobenzene	180	14.922	14.922	0.000	96	149040	20.0	18.2	
135 2-Methylnaphthalene	142	15.579	15.579	0.000	93	289617	20.0	18.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_Gases_00014	Amount Added: 21.50	Units: uL	
MSV_LCS_2CEVE_00008	Amount Added: 21.50	Units: uL	
MSV_LCS_ACROL_00009	Amount Added: 21.50	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 21.50	Units: uL	
MSV_QCYC_00005	Amount Added: 21.50	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added: 21.50	Units: uL	
MSV_HP11_ISSS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 06-Jul-2021 20:48:22 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\7159\20210706-33575.b\NL06S04.D

Injection Date: 06-Jul-2021 12:05:30 Instrument ID: 7159 Operator ID: lcp00895

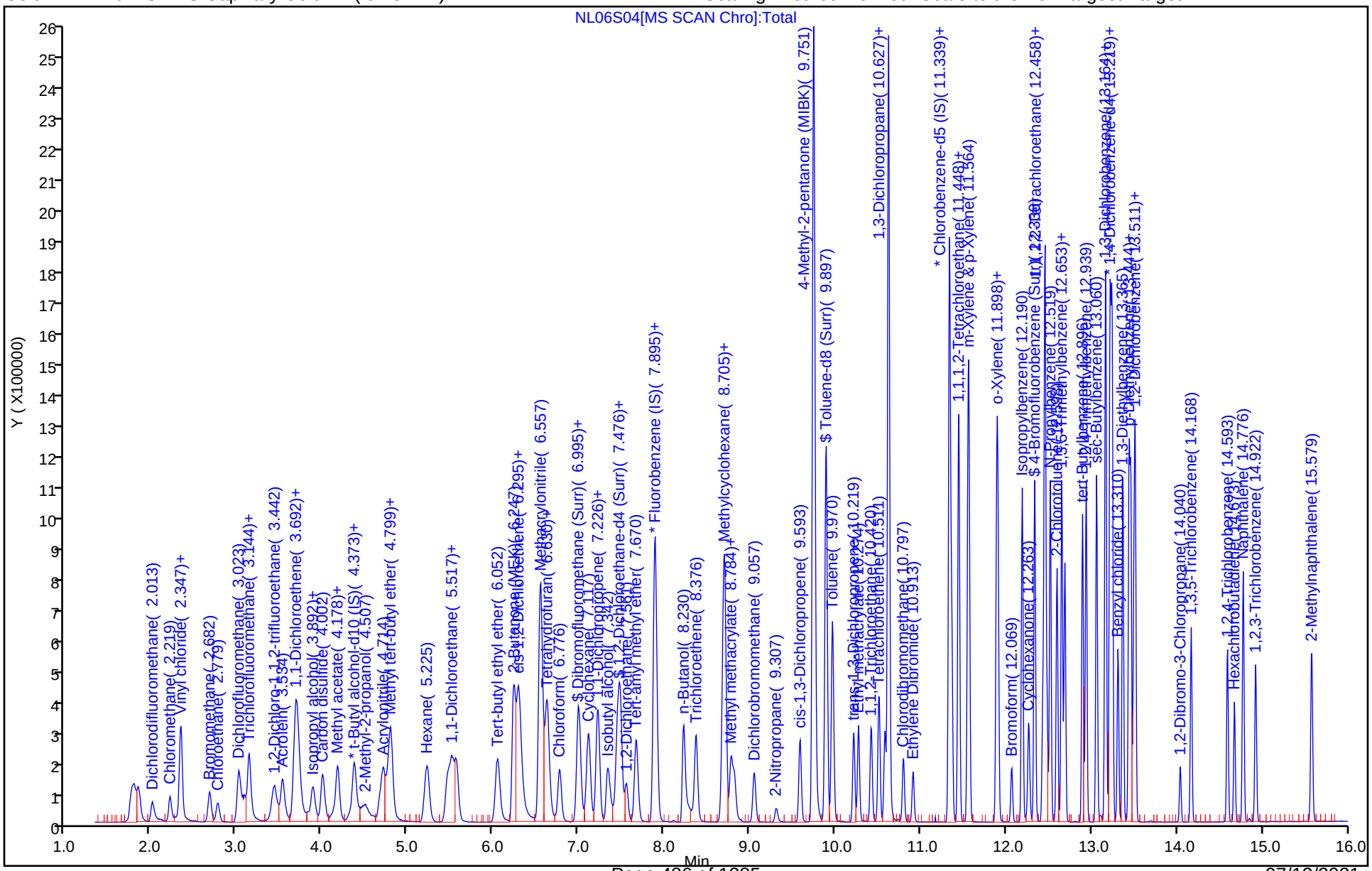
Lims ID: 410-45105-C-5 MSD Worklist Smp#: 11

Client ID: MW-8D-20210623

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: MSVoa_7159 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: 7159 Start Date: 03/08/2021 15:12

Analysis Batch Number: 100578 End Date: 03/08/2021 18:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-100578/1		03/08/2021 15:12	1	NM08T01.D	R-624SilMS 30m 0.25(mm)
IC 410-100578/3		03/08/2021 15:51	1	NM08X03.D	R-624SilMS 30m 0.25(mm)
IC 410-100578/4		03/08/2021 16:13	1	NM08X04.D	R-624SilMS 30m 0.25(mm)
ICIS 410-100578/5		03/08/2021 16:35	1	NM08X05.D	R-624SilMS 30m 0.25(mm)
IC 410-100578/6		03/08/2021 16:57	1	NM08X06.D	R-624SilMS 30m 0.25(mm)
IC 410-100578/7		03/08/2021 17:19	1	NM08X07.D	R-624SilMS 30m 0.25(mm)
IC 410-100578/8		03/08/2021 17:41	1	NM08X08.D	R-624SilMS 30m 0.25(mm)
IC 410-100578/9		03/08/2021 18:03	1	NM08X09.D	R-624SilMS 30m 0.25(mm)
ICV 410-100578/11		03/08/2021 18:47	1	NM08X11.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: 7159 Start Date: 07/02/2021 08:29

Analysis Batch Number: 144661 End Date: 07/02/2021 17:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-144661/1		07/02/2021 08:29	1	NL02T02.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-144661/3		07/02/2021 09:07	1	NL02C01.D	R-624SilMS 30m 0.25(mm)
LCS 410-144661/5		07/02/2021 09:53	1	NL02L01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 10:16	1		R-624SilMS 30m 0.25(mm)
MB 410-144661/7		07/02/2021 10:39	1	NL02B01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 11:02	1		R-624SilMS 30m 0.25(mm)
410-45105-21	Trip-Blank	07/02/2021 11:49	1	NL02S03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 12:12	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 12:35	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 12:58	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 13:21	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 13:44	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 14:07	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 14:30	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 14:53	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 15:16	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 15:39	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/02/2021 16:03	10		R-624SilMS 30m 0.25(mm)
410-45105-1	MW-1-20210622	07/02/2021 16:26	1	NL02S15.D	R-624SilMS 30m 0.25(mm)
410-45105-2	MW-10S-20210622	07/02/2021 16:49	1	NL02S16.D	R-624SilMS 30m 0.25(mm)
410-45105-3	MW-10D-20210622	07/02/2021 17:12	1	NL02S17.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: 7159 Start Date: 07/06/2021 08:18

Analysis Batch Number: 145203 End Date: 07/06/2021 19:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-145203/1		07/06/2021 08:18	1	NL06T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-145203/3		07/06/2021 09:01	1	NL06C01.D	R-624SilMS 30m 0.25(mm)
LCS 410-145203/5		07/06/2021 09:47	1	NL06L01.D	R-624SilMS 30m 0.25(mm)
MB 410-145203/7		07/06/2021 10:33	1	NL06B01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 10:56	1		R-624SilMS 30m 0.25(mm)
410-45105-5	MW-8D-20210623	07/06/2021 11:19	1	NL06S02.D	R-624SilMS 30m 0.25(mm)
410-45105-5 MS	MW-8D-20210623 MS	07/06/2021 11:42	1	NL06S03.D	R-624SilMS 30m 0.25(mm)
410-45105-5 MSD	MW-8D-20210623 MSD	07/06/2021 12:05	1	NL06S04.D	R-624SilMS 30m 0.25(mm)
410-45105-4	MW-8S-20210623	07/06/2021 12:28	1	NL06S05.D	R-624SilMS 30m 0.25(mm)
410-45105-6	MW-7S-20210623	07/06/2021 12:51	1	NL06S06.D	R-624SilMS 30m 0.25(mm)
410-45105-7	MW-7D-20210623	07/06/2021 13:14	1	NL06S07.D	R-624SilMS 30m 0.25(mm)
410-45105-8	MW-14S-20210623	07/06/2021 13:37	1	NL06S08.D	R-624SilMS 30m 0.25(mm)
410-45105-9	MW-14D-20210623	07/06/2021 14:00	1	NL06S09.D	R-624SilMS 30m 0.25(mm)
410-45105-10	MW-12S-20210623	07/06/2021 14:23	1	NL06S10.D	R-624SilMS 30m 0.25(mm)
410-45105-11	MW-12D-20210623	07/06/2021 14:46	1	NL06S11.D	R-624SilMS 30m 0.25(mm)
410-45105-12	MW-11S-20210623	07/06/2021 15:09	1	NL06S12.D	R-624SilMS 30m 0.25(mm)
410-45105-13	MW-11D-20210623	07/06/2021 15:32	1	NL06S13.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 17:04	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 17:28	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 17:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 18:14	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 19:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 19:23	5		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: 7159 Start Date: 07/06/2021 20:10

Analysis Batch Number: 145456 End Date: 07/07/2021 07:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-145456/1		07/06/2021 20:10	1	NL06T35.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-145456/3		07/06/2021 20:49	1	NL06C35.D	R-624SilMS 30m 0.25(mm)
LCS 410-145456/4		07/06/2021 21:12	1	NL06L35.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 21:35	1		R-624SilMS 30m 0.25(mm)
MB 410-145456/6		07/06/2021 21:58	1	NL06B35.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 22:28	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 22:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 23:14	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 23:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 00:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 00:23	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 00:47	1		R-624SilMS 30m 0.25(mm)
410-45105-14	MW-4S-20210624	07/07/2021 01:10	1	NL06S42.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 01:33	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 01:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 02:19	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 02:42	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 03:05	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 03:28	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 03:52	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 04:15	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 04:38	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 05:01	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 05:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 05:47	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 06:10	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 06:33	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 06:56	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 07:19	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 07:42	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: 7159 Start Date: 07/07/2021 20:19

Analysis Batch Number: 145954 End Date: 07/08/2021 07:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-145954/1		07/07/2021 20:19	1	NL07T35.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-145954/3		07/07/2021 20:58	1	NL07C35.D	R-624SilMS 30m 0.25(mm)
LCS 410-145954/4		07/07/2021 21:21	1	NL07L35.D	R-624SilMS 30m 0.25(mm)
MB 410-145954/6		07/07/2021 22:07	1	NL07B35.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 22:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 23:00	1		R-624SilMS 30m 0.25(mm)
410-45105-19	FB-20210624	07/07/2021 23:46	1	NL07S38.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 00:10	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 00:33	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 00:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 01:19	1		R-624SilMS 30m 0.25(mm)
410-45105-15	MW-4D-20210624	07/08/2021 01:42	1	NL07S43.D	R-624SilMS 30m 0.25(mm)
410-45105-16	MW-3-20210624	07/08/2021 02:05	1	NL07S44.D	R-624SilMS 30m 0.25(mm)
410-45105-18	MW-13D-20210624	07/08/2021 02:28	1	NL07S45.D	R-624SilMS 30m 0.25(mm)
410-45105-20	DUP-20210624	07/08/2021 02:52	1	NL07S46.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 04:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 04:47	1		R-624SilMS 30m 0.25(mm)
410-45105-17	MW-13S-20210624	07/08/2021 05:10	5	NL07S52.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2021 07:29	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 100578 Batch Start Date: 03/08/21 15:12 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEE 00183	MSV_DCFM 00036	MSV_HP11_ISSS 00005
BFB 410-100578/1		8260C		1 uL	1 uL				
IC 410-100578/3		8260C		5 mL	5 mL	0126201F		7.5 uL	5 uL
IC 410-100578/4		8260C		5 mL	5 mL	0126201F		2.5 uL	5 uL
ICIS 410-100578/5		8260C		5 mL	5 mL	0126201F		2.5 uL	5 uL
IC 410-100578/6		8260C		5 mL	5 mL	0126201F		2 uL	5 uL
IC 410-100578/7		8260C		5 mL	5 mL	0126201F		1 uL	5 uL
IC 410-100578/8		8260C		5 mL	5 mL	0126201F		2 uL	5 uL
IC 410-100578/9		8260C		5 mL	5 mL	0126201F	12.5 mL		5 uL
ICV 410-100578/11		8260C		5 mL	5 mL	0126201F		1 uL	5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_ETOH 00008	MSV_Q_QARC 00071	MSV_Q_QGases 00131	MSV_Q_QVOA1 00071	MSV_Q_QVOA6 00069	MSV_QCYC 00005
BFB 410-100578/1		8260C							
IC 410-100578/3		8260C							
IC 410-100578/4		8260C							
ICIS 410-100578/5		8260C							
IC 410-100578/6		8260C							
IC 410-100578/7		8260C							
IC 410-100578/8		8260C							
IC 410-100578/9		8260C							
ICV 410-100578/11		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00144	MSV_V_BFB 00004	MSV_V_ETOH 00011	MSV_V_Gas 00219	MSV_V_VOA1 00132	MSV_V_VOA2 00074
BFB 410-100578/1		8260C			1 uL				
IC 410-100578/3		8260C		15 uL		30 uL	7.5 uL	15 uL	
IC 410-100578/4		8260C		5 uL		10 uL	2.5 uL	5 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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 100578 Batch Start Date: 03/08/21 15:12 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00144	MSV_V_BFB 00004	MSV_V_ETOH 00011	MSV_V_Gas 00219	MSV_V_VOA1 00132	MSV_V_VOA2 00074
ICIS 410-100578/5		8260C		5 uL		10 uL	2.5 uL	5 uL	
IC 410-100578/6		8260C		4 uL		16 uL	2 uL	4 uL	4 uL
IC 410-100578/7		8260C		2 uL		8 uL	1 uL	2 uL	2 uL
IC 410-100578/8		8260C		4 uL		20 uL	2 uL	4 uL	12 uL
IC 410-100578/9		8260C							
ICV 410-100578/11		8260C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA3 00072	MSV_V_VOA6 00078	MSV_VCYC 00006			
BFB 410-100578/1		8260C							
IC 410-100578/3		8260C		6 uL	15 uL	30 uL			
IC 410-100578/4		8260C		2 uL	5 uL	10 uL			
ICIS 410-100578/5		8260C		2 uL	5 uL	10 uL			
IC 410-100578/6		8260C		1.6 uL	4 uL	16 uL			
IC 410-100578/7		8260C		0.8 uL	2 uL	8 uL			
IC 410-100578/8		8260C		1.6 uL	4 uL	32 uL			
IC 410-100578/9		8260C							
ICV 410-100578/11		8260C							

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 144661 Batch Start Date: 07/02/21 08:29 Batch Analyst: Riehl, Chelsea

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-144661/1		8260C		1 uL	1 uL				
CCVIS 410-144661/3		8260C		5 mL	5 mL				2597
LCS 410-144661/5		8260C		5 mL	5 mL				2597
MB 410-144661/7		8260C		5 mL	5 mL				2597
410-45105-A-21	Trip-Blank	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-1	MW-1-20210622	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-2	MW-10S-20210622	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-3	MW-10D-20210622	8260C	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00007	MSV_CCV_GASES 00025	MSV_CCV_VOC#1 00007	MSV_CCV_VOC#3 00007	MSV_HP11_ISSS 00007	MSV_LCS_2CEVE 00008
BFB 410-144661/1		8260C							
CCVIS 410-144661/3		8260C		5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-144661/5		8260C						5 uL	50 uL
MB 410-144661/7		8260C						5 uL	
410-45105-A-21	Trip-Blank	8260C	T					5 uL	
410-45105-C-1	MW-1-20210622	8260C	T					5 uL	
410-45105-C-2	MW-10S-20210622	8260C	T					5 uL	
410-45105-C-3	MW-10D-20210622	8260C	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00009	MSV_LCS_Gases 00012	MSV_LCS_VOC#1 00007	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005
BFB 410-144661/1		8260C							1 uL
CCVIS 410-144661/3		8260C							
LCS 410-144661/5		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-144661/7		8260C							
410-45105-A-21	Trip-Blank	8260C	T						

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 144661 Batch Start Date: 07/02/21 08:29 Batch Analyst: Riehl, Chelsea

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00009	MSV_LCS_Gases 00012	MSV_LCS_VOC#1 00007	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005
410-45105-C-1	MW-1-20210622	8260C	T						
410-45105-C-2	MW-10S-20210622	8260C	T						
410-45105-C-3	MW-10D-20210622	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_ETOH 00012	MSV_VCYC 00006				
BFB 410-144661/1		8260C							
CCVIS 410-144661/3		8260C		10 uL	10 uL				
LCS 410-144661/5		8260C							
MB 410-144661/7		8260C							
410-45105-A-21	Trip-Blank	8260C	T						
410-45105-C-1	MW-1-20210622	8260C	T						
410-45105-C-2	MW-10S-20210622	8260C	T						
410-45105-C-3	MW-10D-20210622	8260C	T						

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145203 Batch Start Date: 07/06/21 08:18 Batch Analyst: Becker, Kari

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-145203/1		8260C		1 uL	1 uL				
CCVIS 410-145203/3		8260C		5 mL	5 mL				2597
LCS 410-145203/5		8260C		5 mL	5 mL				2597
MB 410-145203/7		8260C		5 mL	5 mL				2597
410-45105-C-5	MW-8D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-5 MS	MW-8D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-5 MSD	MW-8D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-4	MW-8S-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-6	MW-7S-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-7	MW-7D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-8	MW-14S-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-9	MW-14D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-10	MW-12S-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-11	MW-12D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-12	MW-11S-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-13	MW-11D-20210623	8260C	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00008	MSV_CCV_GASES 00031	MSV_CCV_VOC#1 00008	MSV_CCV_VOC#3 00008	MSV_HP11_ISSS 00007	MSV_LCS_2CEVE 00008
BFB 410-145203/1		8260C							
CCVIS 410-145203/3		8260C		5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-145203/5		8260C						5 uL	50 uL
MB 410-145203/7		8260C						5 uL	
410-45105-C-5	MW-8D-20210623	8260C	T					5 uL	
410-45105-C-5 MS	MW-8D-20210623	8260C	T					5 uL	21.5 uL
410-45105-C-5 MSD	MW-8D-20210623	8260C	T					5 uL	21.5 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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145203 Batch Start Date: 07/06/21 08:18 Batch Analyst: Becker, Kari

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00008	MSV_CCV_GASES 00031	MSV_CCV_VOC#1 00008	MSV_CCV_VOC#3 00008	MSV_HP11_ISSS 00007	MSV_LCS_2CEVE 00008
410-45105-C-4	MW-8S-20210623	8260C	T					5 uL	
410-45105-C-6	MW-7S-20210623	8260C	T					5 uL	
410-45105-C-7	MW-7D-20210623	8260C	T					5 uL	
410-45105-C-8	MW-14S-20210623	8260C	T					5 uL	
410-45105-C-9	MW-14D-20210623	8260C	T					5 uL	
410-45105-C-10	MW-12S-20210623	8260C	T					5 uL	
410-45105-C-11	MW-12D-20210623	8260C	T					5 uL	
410-45105-C-12	MW-11S-20210623	8260C	T					5 uL	
410-45105-C-13	MW-11D-20210623	8260C	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00009	MSV_LCS_Gases 00014	MSV_LCS_VOC#1 00008	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005
BFB 410-145203/1		8260C							1 uL
CCVIS 410-145203/3		8260C							
LCS 410-145203/5		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-145203/7		8260C							
410-45105-C-5	MW-8D-20210623	8260C	T						
410-45105-C-5 MS	MW-8D-20210623	8260C	T	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	
410-45105-C-5 MSD	MW-8D-20210623	8260C	T	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	
410-45105-C-4	MW-8S-20210623	8260C	T						
410-45105-C-6	MW-7S-20210623	8260C	T						
410-45105-C-7	MW-7D-20210623	8260C	T						
410-45105-C-8	MW-14S-20210623	8260C	T						
410-45105-C-9	MW-14D-20210623	8260C	T						
410-45105-C-10	MW-12S-20210623	8260C	T						
410-45105-C-11	MW-12D-20210623	8260C	T						
410-45105-C-12	MW-11S-20210623	8260C	T						
410-45105-C-13	MW-11D-20210623	8260C	T						

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145203 Batch Start Date: 07/06/21 08:18 Batch Analyst: Becker, Kari

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_ETOH 00012	MSV_VCYC 00006				
BFB 410-145203/1		8260C							
CCVIS 410-145203/3		8260C		10 uL	10 uL				
LCS 410-145203/5		8260C							
MB 410-145203/7		8260C							
410-45105-C-5	MW-8D-20210623	8260C	T						
410-45105-C-5 MS	MW-8D-20210623	8260C	T						
410-45105-C-5 MSD	MW-8D-20210623	8260C	T						
410-45105-C-4	MW-8S-20210623	8260C	T						
410-45105-C-6	MW-7S-20210623	8260C	T						
410-45105-C-7	MW-7D-20210623	8260C	T						
410-45105-C-8	MW-14S-20210623	8260C	T						
410-45105-C-9	MW-14D-20210623	8260C	T						
410-45105-C-10	MW-12S-20210623	8260C	T						
410-45105-C-11	MW-12D-20210623	8260C	T						
410-45105-C-12	MW-11S-20210623	8260C	T						
410-45105-C-13	MW-11D-20210623	8260C	T						

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145456 Batch Start Date: 07/06/21 20:10 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-145456/1		8260C		1 uL	1 uL				2597
CCVIS 410-145456/3		8260C		5 mL	5 mL				2597
LCS 410-145456/4		8260C		5 mL	5 mL				2597
MB 410-145456/6		8260C		5 mL	5 mL				2597
410-45105-C-14	MW-4S-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00008	MSV_CCV_GASES 00031	MSV_CCV_VOC#1 00008	MSV_CCV_VOC#3 00008	MSV_HP11_ISSS 00007	MSV_LCS_2CEVE 00008
BFB 410-145456/1		8260C							
CCVIS 410-145456/3		8260C		5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-145456/4		8260C						5 uL	50 uL
MB 410-145456/6		8260C						5 uL	
410-45105-C-14	MW-4S-20210624	8260C	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00009	MSV_LCS_Gases 00014	MSV_LCS_VOC#1 00008	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005
BFB 410-145456/1		8260C							1 uL
CCVIS 410-145456/3		8260C							
LCS 410-145456/4		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-145456/6		8260C							
410-45105-C-14	MW-4S-20210624	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_ETOH 00012	MSV_VCYC 00006				
BFB 410-145456/1		8260C							
CCVIS 410-145456/3		8260C		10 uL	10 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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145456 Batch Start Date: 07/06/21 20:10 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_ETOH 00012	MSV_VCYC 00006				
LCS 410-145456/4		8260C							
MB 410-145456/6		8260C							
410-45105-C-14	MW-4S-20210624	8260C	T						

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145954 Batch Start Date: 07/07/21 20:19 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-145954/1		8260C		1 uL	1 uL				
CCVIS 410-145954/3		8260C		5 mL	5 mL				2597
LCS 410-145954/4		8260C		5 mL	5 mL				2597
MB 410-145954/6		8260C		5 mL	5 mL				2597
410-45105-C-19	FB-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-15	MW-4D-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-16	MW-3-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-18	MW-13D-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-20	DUP-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-45105-C-17	MW-13S-20210624	8260C	T	5 mL	5 mL	<2 SU	N	N	2597

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00008	MSV_CCV_GASES 00031	MSV_CCV_VOC#1 00008	MSV_CCV_VOC#3 00008	MSV_HP11_ISSS 00007	MSV_LCS_2CEVE 00008
BFB 410-145954/1		8260C							
CCVIS 410-145954/3		8260C		5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-145954/4		8260C						5 uL	50 uL
MB 410-145954/6		8260C						5 uL	
410-45105-C-19	FB-20210624	8260C	T					5 uL	
410-45105-C-15	MW-4D-20210624	8260C	T					5 uL	
410-45105-C-16	MW-3-20210624	8260C	T					5 uL	
410-45105-C-18	MW-13D-20210624	8260C	T					5 uL	
410-45105-C-20	DUP-20210624	8260C	T					5 uL	
410-45105-C-17	MW-13S-20210624	8260C	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00009	MSV_LCS_Gases 00014	MSV_LCS_VOC#1 00008	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005
BFB 410-145954/1		8260C							1 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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 145954 Batch Start Date: 07/07/21 20:19 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00009	MSV_LCS_Gases 00014	MSV_LCS_VOC#1 00008	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005
CCVIS 410-145954/3		8260C							
LCS 410-145954/4		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-145954/6		8260C							
410-45105-C-19	FB-20210624	8260C	T						
410-45105-C-15	MW-4D-20210624	8260C	T						
410-45105-C-16	MW-3-20210624	8260C	T						
410-45105-C-18	MW-13D-20210624	8260C	T						
410-45105-C-20	DUP-20210624	8260C	T						
410-45105-C-17	MW-13S-20210624	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_ETOH 00012	MSV_VCYC 00006	AnalysisComment			
BFB 410-145954/1		8260C							
CCVIS 410-145954/3		8260C		10 uL	10 uL				
LCS 410-145954/4		8260C							
MB 410-145954/6		8260C							
410-45105-C-19	FB-20210624	8260C	T						
410-45105-C-15	MW-4D-20210624	8260C	T						
410-45105-C-16	MW-3-20210624	8260C	T						
410-45105-C-18	MW-13D-20210624	8260C	T						
410-45105-C-20	DUP-20210624	8260C	T						
410-45105-C-17	MW-13S-20210624	8260C	T			2708			

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 SIM

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
MW-1-20210622	410-45105-1	73	73	69
MW-1-20210622 RE	410-45105-1 RE	67	85	76
MW-10S-20210622	410-45105-2	77	80	74
MW-10S-20210622 RE	410-45105-2 RE	70	80	73
MW-10D-20210622	410-45105-3	76	84	72
MW-10D-20210622 RE	410-45105-3 RE	64	77	70
MW-8S-20210623	410-45105-4	88	88	79
MW-8S-20210623 RE	410-45105-4 RE	78	94	88
MW-8D-20210623	410-45105-5	55	84	63
MW-7S-20210623	410-45105-6	72	84	66
MW-7D-20210623	410-45105-7	76	87	68
MW-14S-20210623	410-45105-8	75	89	69
MW-14D-20210623	410-45105-9	71	85	37
MW-12S-20210623	410-45105-10	74	86	42
MW-12D-20210623	410-45105-11	64	78	33
MW-11S-20210623	410-45105-12	79	95	78
MW-11S-20210623 DL	410-45105-12 DL	75	83	72
MW-11D-20210623	410-45105-13	73	88	71
MW-4S-20210624	410-45105-14	79	98	78
MW-4S-20210624 DL	410-45105-14 DL	95	114	92
MW-4D-20210624	410-45105-15	76	85	50
MW-3-20210624	410-45105-16	70	104	76
MW-3-20210624 DL	410-45105-16 DL	81	101	87
MW-13S-20210624	410-45105-17	74	102	71
MW-13S-20210624 DL	410-45105-17 DL	83	109	73
MW-13D-20210624	410-45105-18	87	92	90
FB-20210624	410-45105-19	76	87	82
DUP-20210624	410-45105-20	81	117	82
DUP-20210624 DL	410-45105-20 DL	87	101	86
	MB 410-143125/1-A	0.6 S1-	1 S1-	1 S1-
	MB 410-143664/1-A	82	87	79
	MB 410-143667/1-A	74	89	76
	MB 410-143956/1-A	68	73	76

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270D SIM

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
	MB 410-143961/1-A	67	88	84
	MB 410-144459/1-A	72	80	80
	LCS 410-143125/2-A	65	90	83
	LCS 410-143664/2-A	88	91	86
	LCS 410-143667/2-A	74	86	79
	LCS 410-143956/2-A	77	89	87
	LCS 410-143961/2-A	83	93	88
	LCS 410-144459/2-A	74	82	83
MW-8D-20210623 MS	410-45105-5 MS	72	88	88
MW-8D-20210623 MSD	410-45105-5 MSD	67	86	78

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF2102.D

Lab ID: LCS 410-143125/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.802	80	42-120	
Acenaphthylene	1.00	0.826	83	49-120	
Anthracene	1.00	0.938	94	54-121	
Benzo[a]anthracene	1.00	0.895	90	61-122	
Benzo[a]pyrene	1.00	0.954	95	60-120	
Benzo[b]fluoranthene	1.00	0.962	96	58-122	
Benzo[g,h,i]perylene	1.00	0.897	90	50-120	
Benzo[k]fluoranthene	1.00	0.900	90	57-128	
Chrysene	1.00	0.878	88	55-123	
Dibenz(a,h)anthracene	1.00	0.939	94	50-121	
Fluoranthene	1.00	0.917	92	61-123	
Fluorene	1.00	0.851	85	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.03	103	47-143	
Naphthalene	1.00	0.650	65	20-120	
Phenanthrene	1.00	0.887	89	59-120	
Pyrene	1.00	0.868	87	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NF1703.D

Lab ID: LCS 410-143664/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.921	92	42-120	
Acenaphthylene	1.00	0.912	91	49-120	
Anthracene	1.00	1.01	101	54-121	
Benzo[a]anthracene	1.00	0.961	96	61-122	
Benzo[a]pyrene	1.00	1.11	111	60-120	
Benzo[b]fluoranthene	1.00	0.981	98	58-122	
Benzo[g,h,i]perylene	1.00	1.21	121	50-120	*+
Benzo[k]fluoranthene	1.00	1.04	104	57-128	
Chrysene	1.00	1.01	101	55-123	
Dibenz(a,h)anthracene	1.00	1.13	113	50-121	
Fluoranthene	1.00	0.987	99	61-123	
Fluorene	1.00	0.929	93	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.24	124	47-143	
Naphthalene	1.00	0.850	85	20-120	
Phenanthrene	1.00	0.944	94	59-120	
Pyrene	1.00	0.950	95	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF2203.D

Lab ID: LCS 410-143667/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.829	83	42-120	
Acenaphthylene	1.00	0.828	83	49-120	
Anthracene	1.00	0.910	91	54-121	
Benzo[a]anthracene	1.00	0.876	88	61-122	
Benzo[a]pyrene	1.00	0.913	91	60-120	
Benzo[b]fluoranthene	1.00	0.921	92	58-122	
Benzo[g,h,i]perylene	1.00	0.934	93	50-120	
Benzo[k]fluoranthene	1.00	0.873	87	57-128	
Chrysene	1.00	0.850	85	55-123	
Dibenz(a,h)anthracene	1.00	1.01	101	50-121	
Fluoranthene	1.00	0.853	85	61-123	
Fluorene	1.00	0.852	85	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.17	117	47-143	
Naphthalene	1.00	0.762	76	20-120	
Phenanthrene	1.00	0.862	86	59-120	
Pyrene	1.00	0.885	88	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NG0005.D

Lab ID: LCS 410-143956/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.836	84	42-120	
Acenaphthylene	1.00	0.826	83	49-120	
Anthracene	1.00	0.978	98	54-121	
Benzo[a]anthracene	1.00	0.938	94	61-122	
Benzo[a]pyrene	1.00	1.05	105	60-120	
Benzo[b]fluoranthene	1.00	0.914	91	58-122	
Benzo[g,h,i]perylene	1.00	1.17	117	50-120	
Benzo[k]fluoranthene	1.00	1.03	103	57-128	
Chrysene	1.00	1.01	101	55-123	
Dibenz(a,h)anthracene	1.00	1.08	108	50-121	
Fluoranthene	1.00	0.946	95	61-123	
Fluorene	1.00	0.858	86	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.20	120	47-143	
Naphthalene	1.00	0.803	80	20-120	
Phenanthrene	1.00	0.908	91	59-120	
Pyrene	1.00	0.967	97	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NG0003.D

Lab ID: LCS 410-143961/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.882	88	42-120	
Acenaphthylene	1.00	0.875	88	49-120	
Anthracene	1.00	1.02	102	54-121	
Benzo[a]anthracene	1.00	0.967	97	61-122	
Benzo[a]pyrene	1.00	1.08	108	60-120	
Benzo[b]fluoranthene	1.00	0.992	99	58-122	
Benzo[g,h,i]perylene	1.00	1.12	112	50-120	
Benzo[k]fluoranthene	1.00	1.07	107	57-128	
Chrysene	1.00	1.06	106	55-123	
Dibenz(a,h)anthracene	1.00	1.01	101	50-121	
Fluoranthene	1.00	1.01	101	61-123	
Fluorene	1.00	0.898	90	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.18	118	47-143	
Naphthalene	1.00	0.773	77	20-120	
Phenanthrene	1.00	0.966	97	59-120	
Pyrene	1.00	1.04	104	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NG0263.D

Lab ID: LCS 410-144459/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.777	78	42-120	
Acenaphthylene	1.00	0.794	79	49-120	
Anthracene	1.00	0.915	91	54-121	
Benzo[a]anthracene	1.00	0.881	88	61-122	
Benzo[a]pyrene	1.00	0.998	100	60-120	
Benzo[b]fluoranthene	1.00	0.906	91	58-122	
Benzo[g,h,i]perylene	1.00	1.11	111	50-120	
Benzo[k]fluoranthene	1.00	0.969	97	57-128	
Chrysene	1.00	0.957	96	55-123	
Dibenz(a,h)anthracene	1.00	0.996	100	50-121	
Fluoranthene	1.00	0.889	89	61-123	
Fluorene	1.00	0.786	79	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.19	119	47-143	
Naphthalene	1.00	0.683	68	20-120	
Phenanthrene	1.00	0.835	83	59-120	
Pyrene	1.00	0.850	85	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MG0106.D

Lab ID: 410-45105-5 MS Client ID: MW-8D-20210623 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	1.03	ND	0.890	87	42-120	
Acenaphthylene	1.03	ND	0.912	89	49-120	
Anthracene	1.03	ND	0.913	89	54-121	
Benzo[a]anthracene	1.03	ND	1.06	103	61-122	
Benzo[a]pyrene	1.03	ND	1.04	101	60-120	
Benzo[b]fluoranthene	1.03	ND	1.07	104	58-122	
Benzo[g,h,i]perylene	1.03	ND	0.897	87	50-120	
Benzo[k]fluoranthene	1.03	ND	0.972	95	57-128	
Chrysene	1.03	ND	0.979	95	55-123	
Dibenz(a,h)anthracene	1.03	ND	1.02	99	50-121	
Fluoranthene	1.03	ND	0.931	91	61-123	
Fluorene	1.03	ND	0.934	91	55-120	
Indeno[1,2,3-cd]pyrene	1.03	ND	1.13	110	47-143	
Naphthalene	1.03	ND	0.795	78	20-120	
Phenanthrene	1.03	ND	0.968	94	59-120	
Pyrene	1.03	ND	0.943	92	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MG0107.D

Lab ID: 410-45105-5 MSD Client ID: MW-8D-20210623 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.04	0.782	75	13	30	42-120	
Acenaphthylene	1.04	0.809	78	12	30	49-120	
Anthracene	1.04	0.913	88	0	30	54-121	
Benzo[a]anthracene	1.04	0.939	90	12	30	61-122	
Benzo[a]pyrene	1.04	0.932	89	11	30	60-120	
Benzo[b]fluoranthene	1.04	0.954	92	11	30	58-122	
Benzo[g,h,i]perylene	1.04	0.757	73	17	30	50-120	
Benzo[k]fluoranthene	1.04	0.887	85	9	30	57-128	
Chrysene	1.04	0.889	85	10	30	55-123	
Dibenz(a,h)anthracene	1.04	0.885	85	14	30	50-121	
Fluoranthene	1.04	0.932	90	0	30	61-123	
Fluorene	1.04	0.839	81	11	30	55-120	
Indeno[1,2,3-cd]pyrene	1.04	0.961	92	16	30	47-143	
Naphthalene	1.04	0.719	69	10	30	20-120	
Phenanthrene	1.04	0.906	87	7	30	59-120	
Pyrene	1.04	0.874	84	8	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: MF2103.D Lab Sample ID: MB 410-143125/1-A

Matrix: Water Date Extracted: 06/29/2021 09:35

Instrument ID: HP21585 Date Analyzed: 06/29/2021 20:50

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-143125/2-A	MF2102.D	06/29/2021 20:19
MW-1-20210622	410-45105-1	MG0020.D	07/02/2021 02:32
MW-10S-20210622	410-45105-2	MG0021.D	07/02/2021 03:03
MW-10D-20210622	410-45105-3	MG0022.D	07/02/2021 03:33

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: MF2202.D Lab Sample ID: MB 410-143667/1-A

Matrix: Water Date Extracted: 06/30/2021 09:42

Instrument ID: HP21585 Date Analyzed: 06/30/2021 21:54

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-143667/2-A	MF2203.D	06/30/2021 22:25
MW-7S-20210623	410-45105-6	MF2212.D	07/01/2021 03:01
MW-7D-20210623	410-45105-7	MF2213.D	07/01/2021 03:32
MW-14S-20210623	410-45105-8	MF2214.D	07/01/2021 04:02
MW-14D-20210623	410-45105-9	MF2215.D	07/01/2021 04:33
MW-12S-20210623	410-45105-10	MF2216.D	07/01/2021 05:04
MW-12D-20210623	410-45105-11	MF2217.D	07/01/2021 05:34
MW-11S-20210623	410-45105-12	MF2218.D	07/01/2021 06:05
MW-11D-20210623	410-45105-13	MF2219.D	07/01/2021 06:36
MW-11S-20210623 DL	410-45105-12 DL	MG0013.D	07/01/2021 22:57

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NF1702.D Lab Sample ID: MB 410-143664/1-A

Matrix: Water Date Extracted: 06/30/2021 09:42

Instrument ID: HP23263 Date Analyzed: 06/30/2021 20:12

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-143664/2-A	NF1703.D	06/30/2021 20:42
MW-8S-20210623	410-45105-4	NF1718.D	07/01/2021 04:10

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0002.D Lab Sample ID: MB 410-143961/1-A

Matrix: Water Date Extracted: 06/30/2021 17:15

Instrument ID: HP23263 Date Analyzed: 07/01/2021 09:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-143961/2-A	NG0003.D	07/01/2021 09:38
MW-1-20210622 RE	410-45105-1 RE	NG0117.D	07/02/2021 04:11
MW-10S-20210622 RE	410-45105-2 RE	MG0121.D	07/02/2021 15:03
MW-10D-20210622 RE	410-45105-3 RE	MG0122.D	07/02/2021 15:34

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0004.D Lab Sample ID: MB 410-143956/1-A

Matrix: Water Date Extracted: 06/30/2021 17:15

Instrument ID: HP23263 Date Analyzed: 07/01/2021 10:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-143956/2-A	NG0005.D	07/01/2021 10:38
MW-8D-20210623 MS	410-45105-5 MS	MG0106.D	07/02/2021 14:01
MW-8D-20210623 MSD	410-45105-5 MSD	MG0107.D	07/02/2021 14:32
MW-8D-20210623	410-45105-5	MG0226.D	07/06/2021 12:23

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0262.D Lab Sample ID: MB 410-144459/1-A

Matrix: Water Date Extracted: 07/01/2021 18:00

Instrument ID: HP23263 Date Analyzed: 07/05/2021 09:18

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-144459/2-A	NG0263.D	07/05/2021 09:48
MW-8S-20210623 RE	410-45105-4 RE	NG0284.D	07/05/2021 20:16
MW-4S-20210624	410-45105-14	NG0375.D	07/06/2021 08:29
MW-4S-20210624 DL	410-45105-14 DL	NG0376.D	07/06/2021 08:59
MW-4D-20210624	410-45105-15	NG0377.D	07/06/2021 09:29
MW-3-20210624	410-45105-16	NG0378.D	07/06/2021 09:59
MW-3-20210624 DL	410-45105-16 DL	NG0379.D	07/06/2021 10:29
MW-13S-20210624	410-45105-17	NG0380.D	07/06/2021 10:59
MW-13S-20210624 DL	410-45105-17 DL	NG0381.D	07/06/2021 11:29
MW-13D-20210624	410-45105-18	NG0382.D	07/06/2021 11:59
FB-20210624	410-45105-19	NG0383.D	07/06/2021 12:28
DUP-20210624	410-45105-20	NG0384.D	07/06/2021 12:58
DUP-20210624 DL	410-45105-20 DL	NG0385.D	07/06/2021 13:28

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: MF0160.D DFTPP Injection Date: 06/03/2021

Instrument ID: HP21585 DFTPP Injection Time: 08:59

Analysis Batch No.: 133561

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	22.6	
68	Less than 2% of mass 69	0.7	(1.5) 1
69	Mass 69 Relative abundance	44.7	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	40.9	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	28.3	
365	Greater than 1% of mass 198	4.9	
441	present but less than 24% of mass 442	13.9	(15.2) 2
442	Greater than 50% of mass 198	92.0	
443	15-24% of mass 442	18.2	(19.7) 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
	ICIS 410-133561/2	MF0161.D	06/03/2021	9:18
	IC 410-133561/3	MF0162.D	06/03/2021	9:48
	IC 410-133561/4	MF0163.D	06/03/2021	10:19
	IC 410-133561/5	MF0164.D	06/03/2021	10:49
	IC 410-133561/6	MF0165.D	06/03/2021	11:20
	IC 410-133561/7	MF0166.D	06/03/2021	11:51
	ICV 410-133561/9	MF0168.D	06/03/2021	12:52

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: MF2100.D DFTPP Injection Date: 06/29/2021

Instrument ID: HP21585 DFTPP Injection Time: 17:25

Analysis Batch No.: 143507

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	29.6	
68	Less than 2% of mass 69	0.9	(1.9) 1
69	Mass 69 Relative abundance	47.1	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	46.4	
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	32.0	
365	Greater than 1% of mass 198	7.4	
441	present but less than 24% of mass 442	22.4	(14.8) 2
442	Greater than 50% of mass 198	151.5	
443	15-24% of mass 442	28.8	(19.0) 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 410-143507/2	MF2101a.D	06/29/2021	18:47
	LCS 410-143125/2-A	MF2102.D	06/29/2021	20:19
	MB 410-143125/1-A	MF2103.D	06/29/2021	20:50

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: MF2200b.D DFTPP Injection Date: 06/30/2021

Instrument ID: HP21585 DFTPP Injection Time: 20:32

Analysis Batch No.: 143973

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	35.6	
68	Less than 2% of mass 69	1.1	(1.9) 1
69	Mass 69 Relative abundance	58.9	
70	Less than 2% of mass 69	0.3	(0.4) 1
127	10-80% of Base Peak	48.4	
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	31.7	
365	Greater than 1% of mass 198	7.9	
441	present but less than 24% of mass 442	21.9	(14.4) 2
442	Greater than 50% of mass 198	151.7	
443	15-24% of mass 442	29.3	(19.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-143973/2	MF2201b.D	06/30/2021	20:53
	MB 410-143667/1-A	MF2202.D	06/30/2021	21:54
	LCS 410-143667/2-A	MF2203.D	06/30/2021	22:25
MW-7S-20210623	410-45105-6	MF2212.D	07/01/2021	3:01
MW-7D-20210623	410-45105-7	MF2213.D	07/01/2021	3:32
MW-14S-20210623	410-45105-8	MF2214.D	07/01/2021	4:02
MW-14D-20210623	410-45105-9	MF2215.D	07/01/2021	4:33
MW-12S-20210623	410-45105-10	MF2216.D	07/01/2021	5:04
MW-12D-20210623	410-45105-11	MF2217.D	07/01/2021	5:34
MW-11S-20210623	410-45105-12	MF2218.D	07/01/2021	6:05
MW-11D-20210623	410-45105-13	MF2219.D	07/01/2021	6:36

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: MG0010.D DFTPP Injection Date: 07/01/2021

Instrument ID: HP21585 DFTPP Injection Time: 21:28

Analysis Batch No.: 144441

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	36.3	
68	Less than 2% of mass 69	1.1	(1.8) 1
69	Mass 69 Relative abundance	62.2	
70	Less than 2% of mass 69	0.4	(0.6) 1
127	10-80% of Base Peak	53.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	30.0	
365	Greater than 1% of mass 198	7.2	
441	present but less than 24% of mass 442	21.4	(15.2) 2
442	Greater than 50% of mass 198	140.3	
443	15-24% of mass 442	26.9	(19.2) 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 410-144441/2	MG0011.D	07/01/2021	21:45
MW-11S-20210623 DL	410-45105-12 DL	MG0013.D	07/01/2021	22:57
MW-1-20210622	410-45105-1	MG0020.D	07/02/2021	2:32
MW-10S-20210622	410-45105-2	MG0021.D	07/02/2021	3:03
MW-10D-20210622	410-45105-3	MG0022.D	07/02/2021	3:33

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: MG0100.D DFTPP Injection Date: 07/02/2021

Instrument ID: HP21585 DFTPP Injection Time: 10:43

Analysis Batch No.: 144775

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	36.5	
68	Less than 2% of mass 69	1.1	(1.8) 1
69	Mass 69 Relative abundance	60.7	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	50.7	
197	Less than 2% of mass 198	0.6	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	30.6	
365	Greater than 1% of mass 198	7.4	
441	present but less than 24% of mass 442	25.2	(15.0) 2
442	Greater than 50% of mass 198	168.1	
443	15-24% of mass 442	33.4	(19.9) 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 410-144775/2	MG0101.D	07/02/2021	11:05
MW-8D-20210623 MS	410-45105-5 MS	MG0106.D	07/02/2021	14:01
MW-8D-20210623 MSD	410-45105-5 MSD	MG0107.D	07/02/2021	14:32
MW-10S-20210622 RE	410-45105-2 RE	MG0121.D	07/02/2021	15:03
MW-10D-20210622 RE	410-45105-3 RE	MG0122.D	07/02/2021	15:34

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: MG0200.D DFTPP Injection Date: 07/06/2021

Instrument ID: HP21585 DFTPP Injection Time: 04:22

Analysis Batch No.: 145121

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	44.2	
68	Less than 2% of mass 69	1.3	(1.8) 1
69	Mass 69 Relative abundance	71.5	
70	Less than 2% of mass 69	0.5	(0.6) 1
127	10-80% of Base Peak	56.3	
197	Less than 2% of mass 198	0.8	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	31.2	
365	Greater than 1% of mass 198	9.2	
441	present but less than 24% of mass 442	25.3	(14.8) 2
442	Greater than 50% of mass 198	171.3	
443	15-24% of mass 442	33.7	(19.7) 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 410-145121/2	MG0201.D	07/06/2021	4:42
MW-8D-20210623	410-45105-5	MG0226.D	07/06/2021	12:23

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NF0900.D DFTPP Injection Date: 06/22/2021

Instrument ID: HP23263 DFTPP Injection Time: 05:58

Analysis Batch No.: 140413

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	30.1	
68	Less than 2% of mass 69	0.3	(0.8) 1
69	Mass 69 Relative abundance	32.5	
70	Less than 2% of mass 69	0.0	(0.1) 1
127	10-80% of Base Peak	47.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	30.0	
365	Greater than 1% of mass 198	4.0	
441	present but less than 24% of mass 442	13.5	(16.3) 2
442	Greater than 50% of mass 198	83.0	
443	15-24% of mass 442	16.2	(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
	ICIS 410-140413/2	NF0901.D	06/22/2021	6:25
	IC 410-140413/3	NF0902.D	06/22/2021	7:12
	IC 410-140413/4	NF0903.D	06/22/2021	7:42
	IC 410-140413/5	NF0904.D	06/22/2021	8:12
	IC 410-140413/6	NF0905.D	06/22/2021	8:42
	IC 410-140413/7	NF0906.D	06/22/2021	9:12
	ICV 410-140413/9	NF0908.D	06/22/2021	10:12

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NF1700a.D DFTPP Injection Date: 06/30/2021

Instrument ID: HP23263 DFTPP Injection Time: 18:30

Analysis Batch No.: 143979

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	32.7	
68	Less than 2% of mass 69	0.6	(1.7) 1
69	Mass 69 Relative abundance	36.0	
70	Less than 2% of mass 69	0.2	(0.5) 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	7.0	
275	10-60% of Base Peak	30.5	
365	Greater than 1% of mass 198	3.8	
441	present but less than 24% of mass 442	14.2	(16.0) 2
442	Greater than 50% of mass 198	88.9	
443	15-24% of mass 442	17.6	(19.9) 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 410-143979/2	NF1701a.D	06/30/2021	18:52
	MB 410-143664/1-A	NF1702.D	06/30/2021	20:12
	LCS 410-143664/2-A	NF1703.D	06/30/2021	20:42
MW-8S-20210623	410-45105-4	NF1718.D	07/01/2021	4:10

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0000.D DFTPP Injection Date: 07/01/2021

Instrument ID: HP23263 DFTPP Injection Time: 08:04

Analysis Batch No.: 144210

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	33.0	
68	Less than 2% of mass 69	0.7	(2.0) 1
69	Mass 69 Relative abundance	35.2	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	48.5	
197	Less than 2% of mass 198	0.1	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	30.4	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	13.2	(16.1) 2
442	Greater than 50% of mass 198	81.6	
443	15-24% of mass 442	15.8	(19.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-144210/2	NG0001.D	07/01/2021	8:27
	MB 410-143961/1-A	NG0002.D	07/01/2021	9:08
	LCS 410-143961/2-A	NG0003.D	07/01/2021	9:38
	MB 410-143956/1-A	NG0004.D	07/01/2021	10:08
	LCS 410-143956/2-A	NG0005.D	07/01/2021	10:38

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0100.D DFTPP Injection Date: 07/01/2021

Instrument ID: HP23263 DFTPP Injection Time: 18:54

Analysis Batch No.: 144525

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	31.8	
68	Less than 2% of mass 69	0.7	(2.0) 1
69	Mass 69 Relative abundance	34.7	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	48.0	
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	30.7	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	13.6	(16.3) 2
442	Greater than 50% of mass 198	83.5	
443	15-24% of mass 442	16.9	(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 410-144525/2	NG0101.D	07/01/2021	19:13
MW-1-20210622 RE	410-45105-1 RE	NG0117.D	07/02/2021	4:11

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0260.D DFTPP Injection Date: 07/05/2021

Instrument ID: HP23263 DFTPP Injection Time: 08:25

Analysis Batch No.: 145058

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	32.7	
68	Less than 2% of mass 69	0.7	(2.0) 1
69	Mass 69 Relative abundance	35.8	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	48.5	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	30.4	
365	Greater than 1% of mass 198	3.8	
441	present but less than 24% of mass 442	12.9	(16.1) 2
442	Greater than 50% of mass 198	80.5	
443	15-24% of mass 442	16.1	(20.0) 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 410-145058/2	NG0261.D	07/05/2021	8:44
	MB 410-144459/1-A	NG0262.D	07/05/2021	9:18
	LCS 410-144459/2-A	NG0263.D	07/05/2021	9:48
MW-8S-20210623 RE	410-45105-4 RE	NG0284.D	07/05/2021	20:16

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Lab File ID: NG0370.D DFTPP Injection Date: 07/06/2021

Instrument ID: HP23263 DFTPP Injection Time: 05:55

Analysis Batch No.: 145132

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	32.9	
68	Less than 2% of mass 69	0.4	(1.2) 1
69	Mass 69 Relative abundance	35.2	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	48.5	
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	30.7	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	13.2	(16.2) 2
442	Greater than 50% of mass 198	81.7	
443	15-24% of mass 442	16.2	(19.9) 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 410-145132/2	NG0371.D	07/06/2021	6:14
MW-4S-20210624	410-45105-14	NG0375.D	07/06/2021	8:29
MW-4S-20210624 DL	410-45105-14 DL	NG0376.D	07/06/2021	8:59
MW-4D-20210624	410-45105-15	NG0377.D	07/06/2021	9:29
MW-3-20210624	410-45105-16	NG0378.D	07/06/2021	9:59
MW-3-20210624 DL	410-45105-16 DL	NG0379.D	07/06/2021	10:29
MW-13S-20210624	410-45105-17	NG0380.D	07/06/2021	10:59
MW-13S-20210624 DL	410-45105-17 DL	NG0381.D	07/06/2021	11:29
MW-13D-20210624	410-45105-18	NG0382.D	07/06/2021	11:59
FB-20210624	410-45105-19	NG0383.D	07/06/2021	12:28
DUP-20210624	410-45105-20	NG0384.D	07/06/2021	12:58
DUP-20210624 DL	410-45105-20 DL	NG0385.D	07/06/2021	13:28

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: ICIS 410-133561/2 Date Analyzed: 06/03/2021 09:18

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF0161.D Heated Purge: (Y/N) N

Calibration ID: 26007

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		13994	6.85	44016	8.75	31042	11.52
UPPER LIMIT		27988	7.35	88032	9.25	62084	12.02
LOWER LIMIT		6997	6.35	22008	8.25	15521	11.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-133561/9		11077	6.85	35131	8.75	24904	11.51
CCVIS 410-143507/2		7645	6.73	26809	8.62	17330	11.40
CCVIS 410-143973/2		10719	6.69	34624	8.61	22763	11.38
CCVIS 410-144441/2		15073	6.67	53033	8.59	33150	11.37
CCVIS 410-144775/2		12198	6.67	41369	8.59	25958	11.37
CCVIS 410-145121/2		8336	6.67	27096	8.59	17632	11.37

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: ICIS 410-133561/2 Date Analyzed: 06/03/2021 09:18

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF0161.D Heated Purge: (Y/N) N

Calibration ID: 26007

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		64866	13.41	73652	17.50	86651	19.97
UPPER LIMIT		129732	13.91	147304	18.00	173302	20.47
LOWER LIMIT		32433	12.91	36826	17.00	43326	19.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-133561/9		53833	13.41	60233	17.50	69615	19.97
CCVIS 410-143507/2		36229	13.31	41919	17.35	50908	19.82
CCVIS 410-143973/2		47871	13.29	49764	17.33	57368	19.79
CCVIS 410-144441/2		69297	13.27	80786	17.31	96244	19.77
CCVIS 410-144775/2		54770	13.27	62379	17.31	73658	19.77
CCVIS 410-145121/2		38049	13.27	48578	17.30	56047	19.77

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-143507/2 Date Analyzed: 06/29/2021 18:47

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF2101a.D Heated Purge: (Y/N) N

Calibration ID: 26007

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		7645	6.73	26809	8.62	17330	11.40
UPPER LIMIT		15290	7.23	53618	9.12	34660	11.90
LOWER LIMIT		3823	6.23	13405	8.12	8665	10.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-143125/2-A		8399	6.71	27507	8.62	18250	11.40
MB 410-143125/1-A		6704	6.73	22683	8.62	15761	11.41

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-143507/2 Date Analyzed: 06/29/2021 18:47

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF2101a.D Heated Purge: (Y/N) N

Calibration ID: 26007

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		36229	13.31	41919	17.35	50908	19.82
UPPER LIMIT		72458	13.81	83838	17.85	101816	20.32
LOWER LIMIT		18115	12.81	20960	16.85	25454	19.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-143125/2-A		38320	13.31	45017	17.35	51828	19.82
MB 410-143125/1-A		31096	13.31	35151	17.36	40499	19.82

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-143973/2 Date Analyzed: 06/30/2021 20:53

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF2201b.D Heated Purge: (Y/N) N

Calibration ID: 26007

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		10719	6.69	34624	8.61	22763	11.38
UPPER LIMIT		21438	7.19	69248	9.11	45526	11.88
LOWER LIMIT		5360	6.19	17312	8.11	11382	10.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-143667/1-A		7513	6.69	24120	8.61	15683	11.38
LCS 410-143667/2-A		9112	6.69	30249	8.61	20429	11.38
410-45105-6	MW-7S-20210623	11037	6.69	37786	8.61	24845	11.38
410-45105-7	MW-7D-20210623	10489	6.69	36159	8.61	23812	11.38
410-45105-8	MW-14S-20210623	10134	6.69	34394	8.61	22653	11.39
410-45105-9	MW-14D-20210623	9648	6.69	33059	8.61	22184	11.38
410-45105-10	MW-12S-20210623	8227	6.69	27813	8.61	18355	11.38
410-45105-11	MW-12D-20210623	9414	6.69	31755	8.61	21497	11.38
410-45105-12	MW-11S-20210623	8369	6.69	29718	8.59	21896	11.38
410-45105-13	MW-11D-20210623	8941	6.69	30716	8.61	21712	11.38

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-143973/2 Date Analyzed: 06/30/2021 20:53

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF2201b.D Heated Purge: (Y/N) N

Calibration ID: 26007

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		47871	13.29	49764	17.33	57368	19.79
UPPER LIMIT		95742	13.79	99528	17.83	114736	20.29
LOWER LIMIT		23936	12.79	24882	16.83	28684	19.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-143667/1-A		32516	13.29	35534	17.33	45774	19.79
LCS 410-143667/2-A		43228	13.28	46501	17.32	51958	19.79
410-45105-6	MW-7S-20210623	45360	13.29	54533	17.33	60687	19.79
410-45105-7	MW-7D-20210623	47820	13.29	53217	17.33	53379	19.80
410-45105-8	MW-14S-20210623	45426	13.29	51777	17.33	53931	19.79
410-45105-9	MW-14D-20210623	44616	13.29	48666	17.33	46680	19.79
410-45105-10	MW-12S-20210623	35480	13.28	43536	17.33	44940	19.79
410-45105-11	MW-12D-20210623	43781	13.29	47691	17.33	47185	19.79
410-45105-12	MW-11S-20210623	35052	13.28	43986	17.32	51587	19.79
410-45105-13	MW-11D-20210623	39284	13.28	46246	17.33	49772	19.79

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144441/2 Date Analyzed: 07/01/2021 21:45

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG0011.D Heated Purge: (Y/N) N

Calibration ID: 26007

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		15073	6.67	53033	8.59	33150	11.37
UPPER LIMIT		30146	7.17	106066	9.09	66300	11.87
LOWER LIMIT		7537	6.17	26517	8.09	16575	10.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-12 DL	MW-11S-20210623 DL	12746	6.67	44308	8.59	29832	11.37
410-45105-1	MW-1-20210622	13942	6.67	47884	8.59	32972	11.37
410-45105-2	MW-10S-20210622	11970	6.67	41652	8.58	27547	11.37
410-45105-3	MW-10D-20210622	11845	6.67	40666	8.59	26565	11.37

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144441/2 Date Analyzed: 07/01/2021 21:45

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG0011.D Heated Purge: (Y/N) N

Calibration ID: 26007

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		69297	13.27	80786	17.31	96244	19.77
UPPER LIMIT		138594	13.77	161572	17.81	192488	20.27
LOWER LIMIT		34649	12.77	40393	16.81	48122	19.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-12 DL	MW-11S-20210623 DL	62066	13.27	68072	17.31	81173	19.77
410-45105-1	MW-1-20210622	66789	13.27	68899	17.31	85983	19.77
410-45105-2	MW-10S-20210622	57988	13.27	62254	17.31	77570	19.77
410-45105-3	MW-10D-20210622	55905	13.27	59693	17.31	72827	19.77

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144775/2 Date Analyzed: 07/02/2021 11:05

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG0101.D Heated Purge: (Y/N) N

Calibration ID: 26007

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		12198	6.67	41369	8.59	25958	11.37
UPPER LIMIT		24396	7.17	82738	9.09	51916	11.87
LOWER LIMIT		6099	6.17	20685	8.09	12979	10.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-5 MS	MW-8D-20210623 MS	9173	6.67	31000	8.59	20295	11.37
410-45105-5 MSD	MW-8D-20210623 MSD	10648	6.67	36226	8.59	23810	11.37
410-45105-2 RE	MW-10S-20210622 RE	10365	6.67	34904	8.58	23087	11.37
410-45105-3 RE	MW-10D-20210622 RE	11072	6.67	38232	8.59	24425	11.37

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144775/2 Date Analyzed: 07/02/2021 11:05

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG0101.D Heated Purge: (Y/N) N

Calibration ID: 26007

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		54770	13.27	62379	17.31	73658	19.77
UPPER LIMIT		109540	13.77	124758	17.81	147316	20.27
LOWER LIMIT		27385	12.77	31190	16.81	36829	19.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-5 MS	MW-8D-20210623 MS	43622	13.27	49181	17.30	60421	19.77
410-45105-5 MSD	MW-8D-20210623 MSD	50803	13.27	58249	17.30	69484	19.77
410-45105-2 RE	MW-10S-20210622 RE	48244	13.27	53925	17.31	68894	19.77
410-45105-3 RE	MW-10D-20210622 RE	51532	13.27	55849	17.31	70240	19.77

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145121/2 Date Analyzed: 07/06/2021 04:42

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG0201.D Heated Purge: (Y/N) N

Calibration ID: 26007

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		8336	6.67	27096	8.59	17632	11.37
UPPER LIMIT		16672	7.17	54192	9.09	35264	11.87
LOWER LIMIT		4168	6.17	13548	8.09	8816	10.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-5	MW-8D-20210623	7761	6.67	26869	8.59	18243	11.37

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145121/2 Date Analyzed: 07/06/2021 04:42

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MG0201.D Heated Purge: (Y/N) N

Calibration ID: 26007

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		38049	13.27	48578	17.30	56047	19.77
UPPER LIMIT		76098	13.77	97156	17.80	112094	20.27
LOWER LIMIT		19025	12.77	24289	16.80	28024	19.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-5	MW-8D-20210623	39161	13.27	49693	17.31	58240	19.77

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: ICIS 410-140413/2 Date Analyzed: 06/22/2021 06:25

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NF0901.D Heated Purge: (Y/N) N

Calibration ID: 27846

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		266919	6.18	908604	8.14	493724	10.98
UPPER LIMIT		533838	6.68	1817208	8.64	987448	11.48
LOWER LIMIT		133460	5.68	454302	7.64	246862	10.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-140413/9		138976	6.18	485177	8.14	262325	10.98
CCVIS 410-143979/2		251851	6.08	907763	8.04	485662	10.89
CCVIS 410-144210/2		233330	6.08	821074	8.04	446691	10.89
CCVIS 410-144525/2		219745	6.08	768058	8.05	418252	10.89
CCVIS 410-145058/2		248295	6.05	865400	8.03	468201	10.87
CCVIS 410-145132/2		216299	6.05	762103	8.03	421441	10.87

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: ICIS 410-140413/2 Date Analyzed: 06/22/2021 06:25

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NF0901.D Heated Purge: (Y/N) N

Calibration ID: 27846

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1002213	12.89	978511	17.00	1062986	19.49
UPPER LIMIT		2004426	13.39	1957022	17.50	2125972	19.99
LOWER LIMIT		501107	12.39	489256	16.50	531493	18.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-140413/9		501189	12.89	478338*3	16.99	522166*3	19.48
CCVIS 410-143979/2		952144	12.81	916825	16.89	1063155	19.37
CCVIS 410-144210/2		896421	12.81	846074	16.89	964545	19.38
CCVIS 410-144525/2		836517	12.82	847314	16.90	977820	19.39
CCVIS 410-145058/2		898194	12.79	977764	16.86	1133179	19.35
CCVIS 410-145132/2		810356	12.79	885525	16.87	1042104	19.36

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-143979/2 Date Analyzed: 06/30/2021 18:52

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NF1701a.D Heated Purge: (Y/N) N

Calibration ID: 27846

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		251851	6.08	907763	8.04	485662	10.89
UPPER LIMIT		503702	6.58	1815526	8.54	971324	11.39
LOWER LIMIT		125926	5.58	453882	7.54	242831	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-143664/1-A		223326	6.08	795439	8.04	430451	10.88
LCS 410-143664/2-A		221886	6.08	773893	8.04	429318	10.88
410-45105-4	MW-8S-20210623	217350	6.07	776267	8.04	427800	10.88

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-143979/2 Date Analyzed: 06/30/2021 18:52

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NF1701a.D Heated Purge: (Y/N) N

Calibration ID: 27846

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		952144	12.81	916825	16.89	1063155	19.37
UPPER LIMIT		1904288	13.31	1833650	17.39	2126310	19.87
LOWER LIMIT		476072	12.31	458413	16.39	531578	18.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-143664/1-A		840353	12.81	821886	16.89	894460	19.36
LCS 410-143664/2-A		825721	12.80	800107	16.89	894506	19.36
410-45105-4	MW-8S-20210623	768975	12.80	712765	16.88	822141	19.37

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144210/2 Date Analyzed: 07/01/2021 08:27

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0001.D Heated Purge: (Y/N) N

Calibration ID: 27846

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		233330	6.08	821074	8.04	446691	10.89
UPPER LIMIT		466660	6.58	1642148	8.54	893382	11.39
LOWER LIMIT		116665	5.58	410537	7.54	223346	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-143961/1-A		211131	6.08	761484	8.04	406610	10.89
LCS 410-143961/2-A		212058	6.08	753885	8.04	423105	10.89
MB 410-143956/1-A		213437	6.08	774631	8.04	419684	10.88
LCS 410-143956/2-A		201972	6.08	708756	8.04	397180	10.88

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144210/2 Date Analyzed: 07/01/2021 08:27

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0001.D Heated Purge: (Y/N) N

Calibration ID: 27846

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		896421	12.81	846074	16.89	964545	19.38
UPPER LIMIT		1792842	13.31	1692148	17.39	1929090	19.88
LOWER LIMIT		448211	12.31	423037	16.39	482273	18.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-143961/1-A		793781	12.81	719137	16.89	784815	19.37
LCS 410-143961/2-A		796543	12.81	730819	16.89	814235	19.37
MB 410-143956/1-A		819002	12.81	749115	16.89	815011	19.37
LCS 410-143956/2-A		754301	12.80	714507	16.89	834147	19.37

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144525/2 Date Analyzed: 07/01/2021 19:13

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0101.D Heated Purge: (Y/N) N

Calibration ID: 27846

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		219745	6.08	768058	8.05	418252	10.89
UPPER LIMIT		439490	6.58	1536116	8.55	836504	11.39
LOWER LIMIT		109873	5.58	384029	7.55	209126	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-1 RE	MW-1-20210622 RE	208215	6.09	735504	8.05	402145	10.90

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-144525/2 Date Analyzed: 07/01/2021 19:13

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0101.D Heated Purge: (Y/N) N

Calibration ID: 27846

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		836517	12.82	847314	16.90	977820	19.39
UPPER LIMIT		1673034	13.32	1694628	17.40	1955640	19.89
LOWER LIMIT		418259	12.32	423657	16.40	488910	18.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-1 RE	MW-1-20210622 RE	661349	12.82	753578	16.90	838934	19.39

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145058/2 Date Analyzed: 07/05/2021 08:44

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0261.D Heated Purge: (Y/N) N

Calibration ID: 27846

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		248295	6.05	865400	8.03	468201	10.87
UPPER LIMIT		496590	6.55	1730800	8.53	936402	11.37
LOWER LIMIT		124148	5.55	432700	7.53	234101	10.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-144459/1-A		190474	6.07	671754	8.03	375467	10.87
LCS 410-144459/2-A		212764	6.07	752544	8.03	415857	10.87
410-45105-4 RE	MW-8S-20210623 RE	204673	6.07	698122	8.03	382072	10.87

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145058/2 Date Analyzed: 07/05/2021 08:44

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0261.D Heated Purge: (Y/N) N

Calibration ID: 27846

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		898194	12.79	977764	16.86	1133179	19.35
UPPER LIMIT		1796388	13.29	1955528	17.36	2266358	19.85
LOWER LIMIT		449097	12.29	488882	16.36	566590	18.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-144459/1-A		723978	12.79	735951	16.86	825764	19.35
LCS 410-144459/2-A		798235	12.79	807746	16.86	973285	19.35
410-45105-4 RE	MW-8S-20210623 RE	694123	12.79	757011	16.87	957803	19.35

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145132/2 Date Analyzed: 07/06/2021 06:14

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0371.D Heated Purge: (Y/N) N

Calibration ID: 27846

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		216299	6.05	762103	8.03	421441	10.87
UPPER LIMIT		432598	6.55	1524206	8.53	842882	11.37
LOWER LIMIT		108150	5.55	381052	7.53	210721	10.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-14	MW-4S-20210624	203665	6.07	721430	8.03	396634	10.87
410-45105-14 DL	MW-4S-20210624 DL	177039	6.06	620498	8.02	344912	10.87
410-45105-15	MW-4D-20210624	192573	6.07	662239	8.03	376346	10.87
410-45105-16	MW-3-20210624	191954	6.08	644591	8.03	336736	10.87
410-45105-16 DL	MW-3-20210624 DL	170848	6.07	615123	8.03	338576	10.87
410-45105-17	MW-13S-20210624	185299	6.08	623311	8.03	375487	10.88
410-45105-17 DL	MW-13S-20210624 DL	170330	6.07	617869	8.03	351262	10.87
410-45105-18	MW-13D-20210624	185018	6.08	645552	8.02	369207	10.87
410-45105-19	FB-20210624	207815	6.08	735662	8.02	403763	10.87
410-45105-20	DUP-20210624	180628	6.07	603257	8.03	289845	10.88
410-45105-20 DL	DUP-20210624 DL	168936	6.07	588833	8.03	328772	10.87

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 SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Sample No.: CCVIS 410-145132/2 Date Analyzed: 07/06/2021 06:14

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NG0371.D Heated Purge: (Y/N) N

Calibration ID: 27846

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		810356	12.79	885525	16.87	1042104	19.36
UPPER LIMIT		1620712	13.29	1771050	17.37	2084208	19.86
LOWER LIMIT		405178	12.29	442763	16.37	521052	18.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-45105-14	MW-4S-20210624	654021	12.79	755065	16.87	951330	19.35
410-45105-14 DL	MW-4S-20210624 DL	670475	12.79	719968	16.87	750721	19.35
410-45105-15	MW-4D-20210624	672005	12.79	738517	16.87	866439	19.35
410-45105-16	MW-3-20210624	538844	12.79	736400	16.88	940084	19.36
410-45105-16 DL	MW-3-20210624 DL	666486	12.79	708891	16.87	865535	19.35
410-45105-17	MW-13S-20210624	531858	12.80	708188	16.87	909771	19.36
410-45105-17 DL	MW-13S-20210624 DL	664844	12.79	741978	16.87	789357	19.35
410-45105-18	MW-13D-20210624	706507	12.79	756063	16.87	797893	19.35
410-45105-19	FB-20210624	806197	12.79	854437	16.87	869944	19.35
410-45105-20	DUP-20210624	501529	12.79	714439	16.88	883378	19.36
410-45105-20 DL	DUP-20210624 DL	650686	12.79	686108	16.87	821428	19.36

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 SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-1-20210622 Lab Sample ID: 410-45105-1

Matrix: Groundwater Lab File ID: MG0020.D

Analysis Method: 8270D SIM Date Collected: 06/22/2021 11:32

Extract. Method: 3510C Date Extracted: 06/29/2021 09:35

Sample wt/vol: 246(mL) Date Analyzed: 07/02/2021 02:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144441 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	ND		0.071	0.030
85-01-8	Phenanthrene	ND		0.071	0.030
129-00-0	Pyrene	ND		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	69		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		36-111
93951-69-0	Fluoranthene-d10 (Surr)	73		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0020.D				
Lims ID:	410-45105-A-1-A				
Client ID:	MW-1-20210622				
Sample Type:	Client				
Inject. Date:	02-Jul-2021 02:32:27	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-45105-A-2-A				
Misc. Info.:	410-0033409-012				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	02-Jul-2021 10:09:39	Calib Date:	03-Jun-2021 11:51:27		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1633				
First Level Reviewer: transuea		Date:	02-Jul-2021 09:56:09		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	93	13942	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	-0.001	91	47884	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	22756	0.1828	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	90	32972	0.2500	
* 20 Phenanthrene-d10	188	13.265	13.273	-0.008	95	66789	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	96	56984	0.1823	
* 29 Chrysene-d12	240	17.309	17.309	0.000	55	68899	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	98	56860	0.1729	
* 38 Perylene-d12	264	19.771	19.771	0.000	97	85983	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

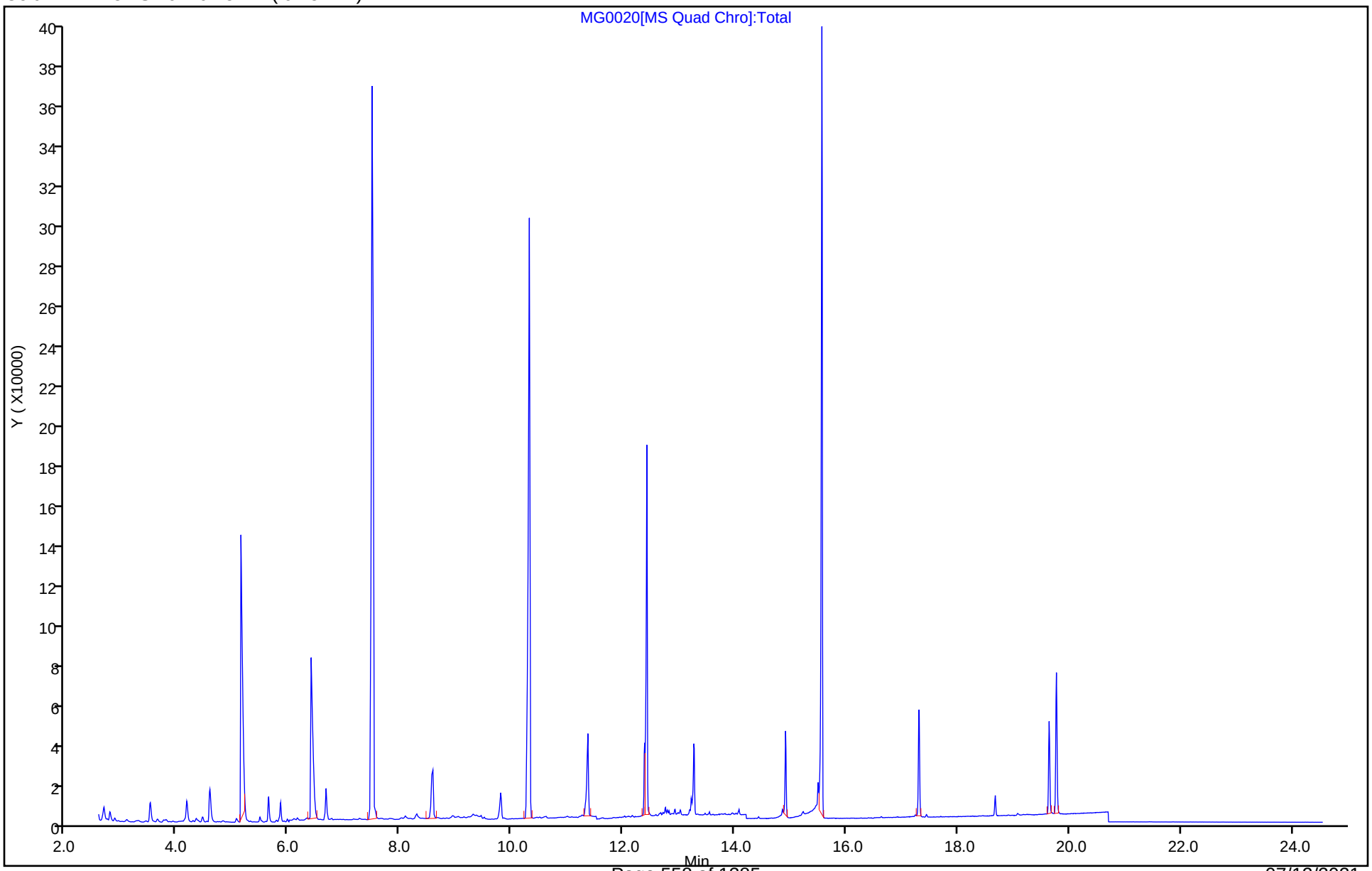
Report Date: 02-Jul-2021 10:12:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0020.D

Injection Date:	02-Jul-2021 02:32:27	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-1-A	Lab Sample ID:	410-45105-1	Worklist Smp#:	12
Client ID:	MW-1-20210622				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



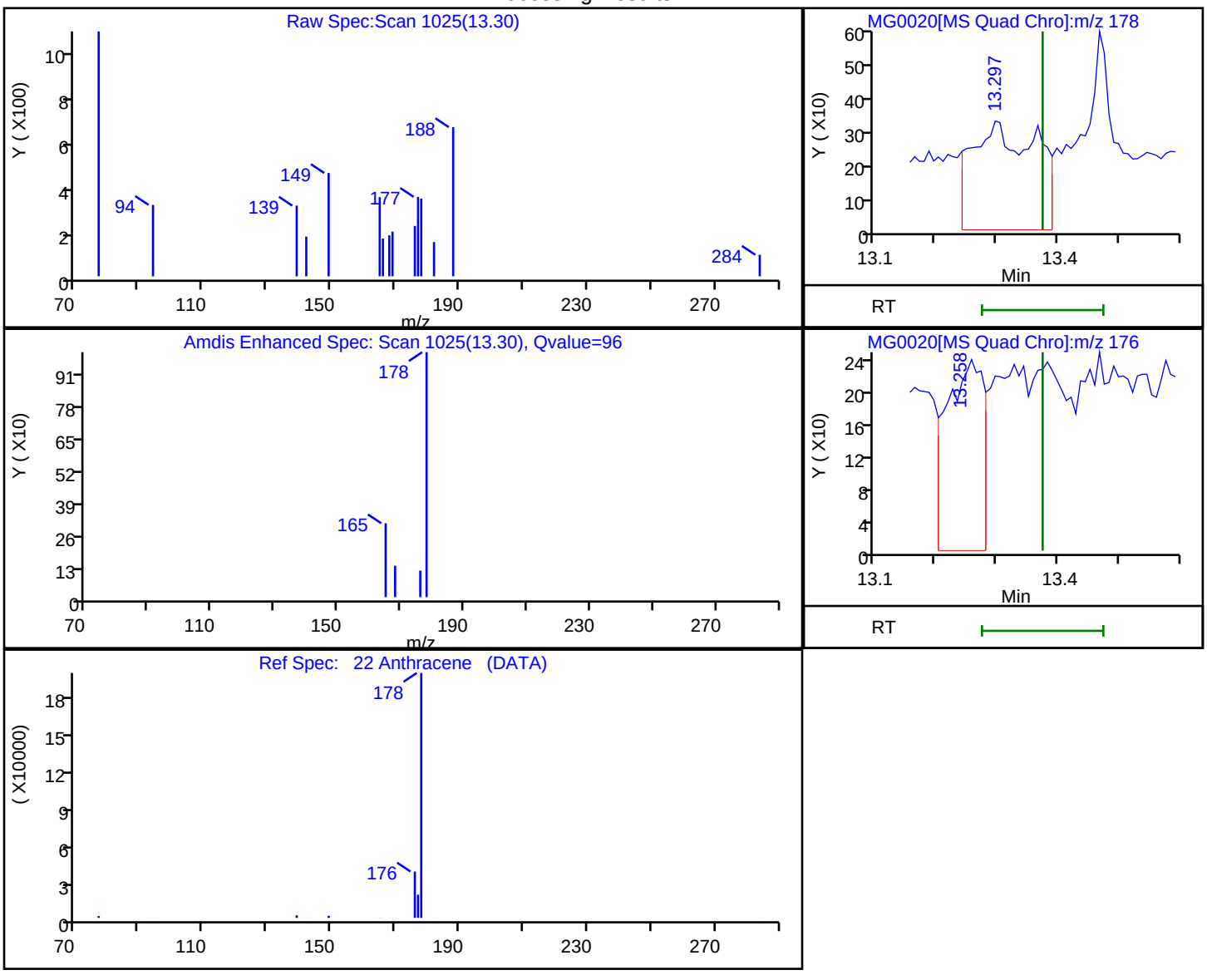
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0020.D				
Injection Date:	02-Jul-2021 02:32:27	Instrument ID:	HP21585		
Lims ID:	410-45105-A-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
13.30	178.00	2328	0.008875
13.26	176.00	936	

Reviewer: transuea, 02-Jul-2021 09:55:06

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

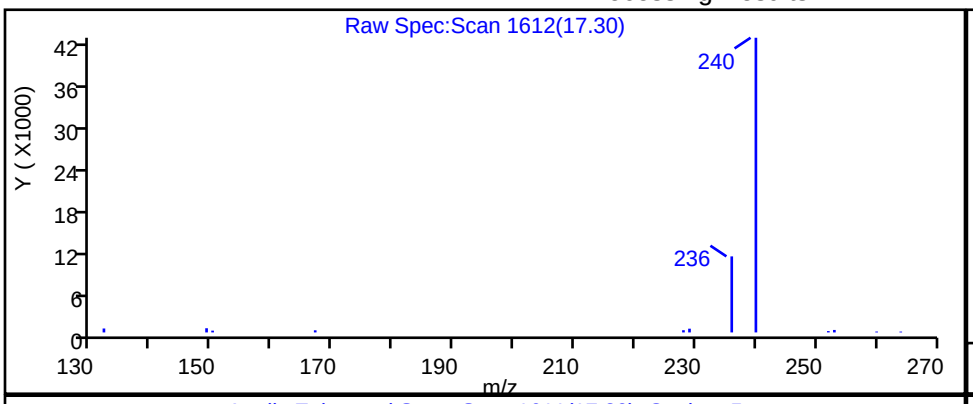
User Disabled Compound Report

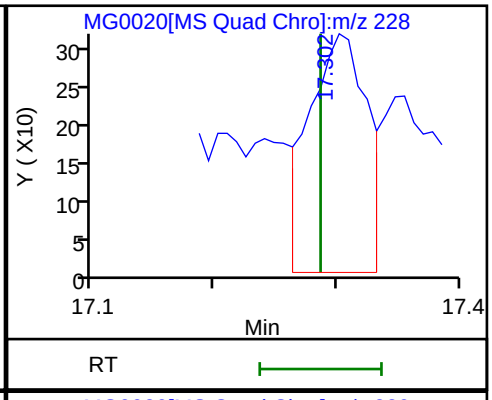
Eurofins Lancaster Laboratories Env, LLC

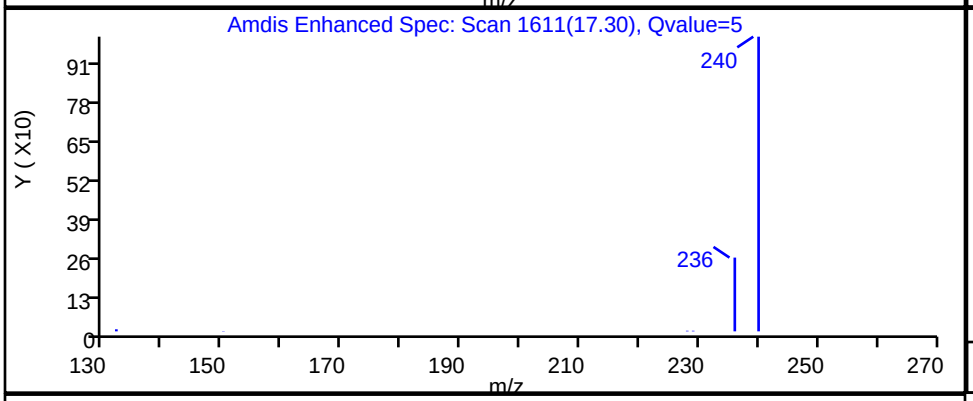
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0020.D				
Injection Date:	02-Jul-2021 02:32:27	Instrument ID:	HP21585		
Lims ID:	410-45105-A-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

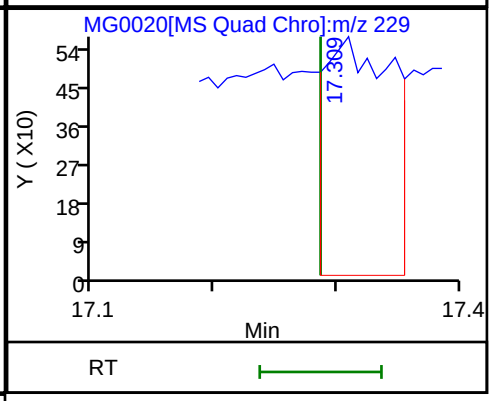
28 Benzo[a]anthracene, CAS: 56-55-3

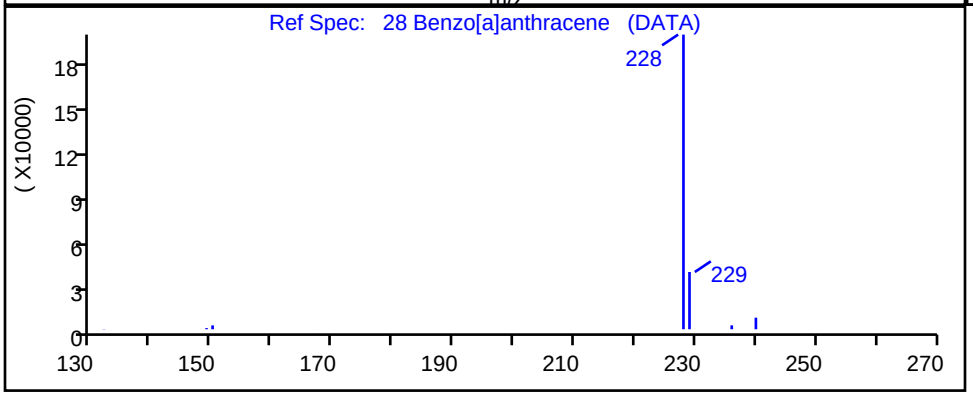
Processing Results











RT	Mass	Response	Amount
17.30	228.00	1011	0.002829
17.31	229.00	2086	

Reviewer: transuea, 02-Jul-2021 09:55:21

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

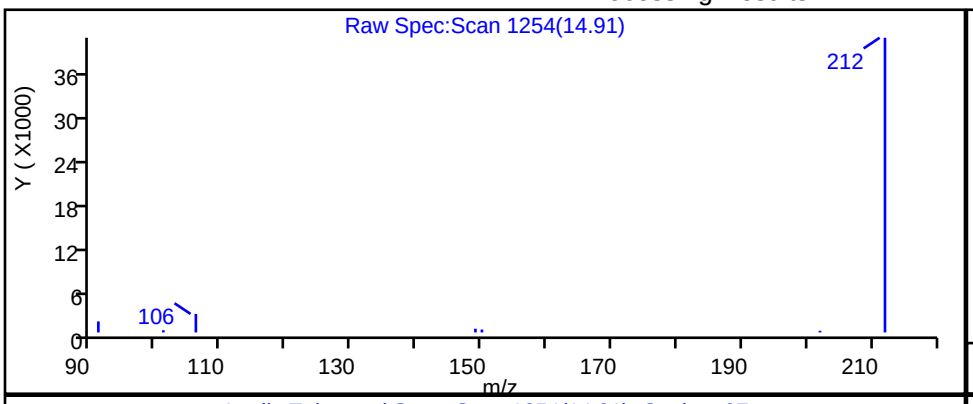
User Disabled Compound Report

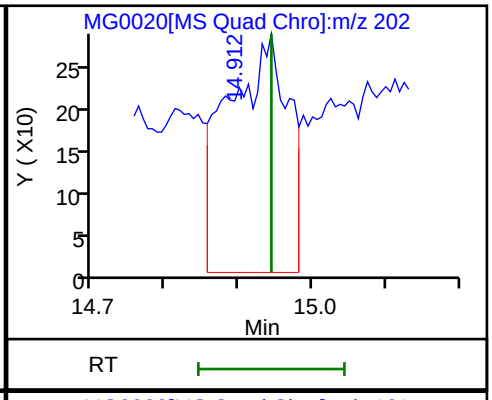
Eurofins Lancaster Laboratories Env, LLC

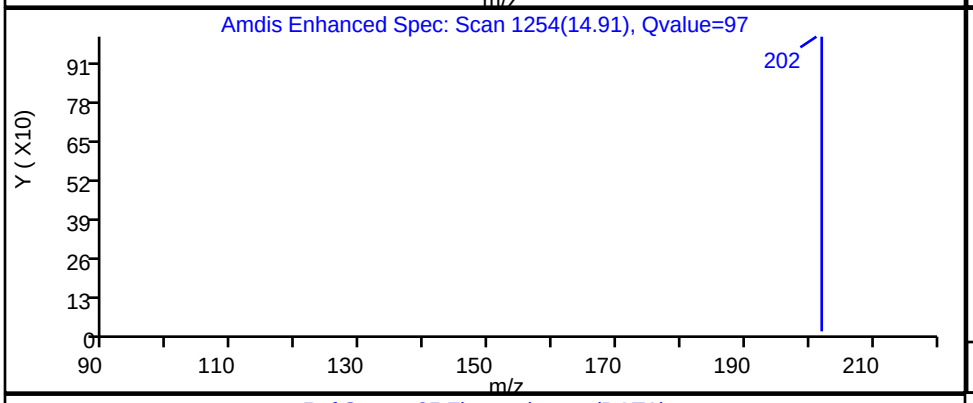
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0020.D				
Injection Date:	02-Jul-2021 02:32:27	Instrument ID:	HP21585		
Lims ID:	410-45105-A-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

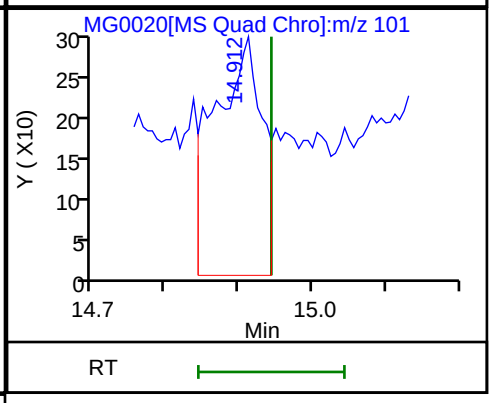
25 Fluoranthene, CAS: 206-44-0

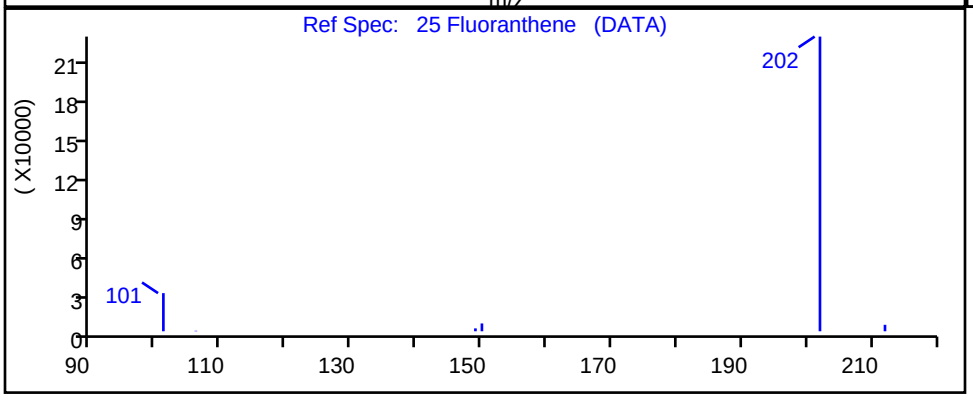
Processing Results











RT	Mass	Response	Amount
14.91	202.00	1619	0.004342
14.91	101.00	1331	

Reviewer: transuea, 02-Jul-2021 09:55:09

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

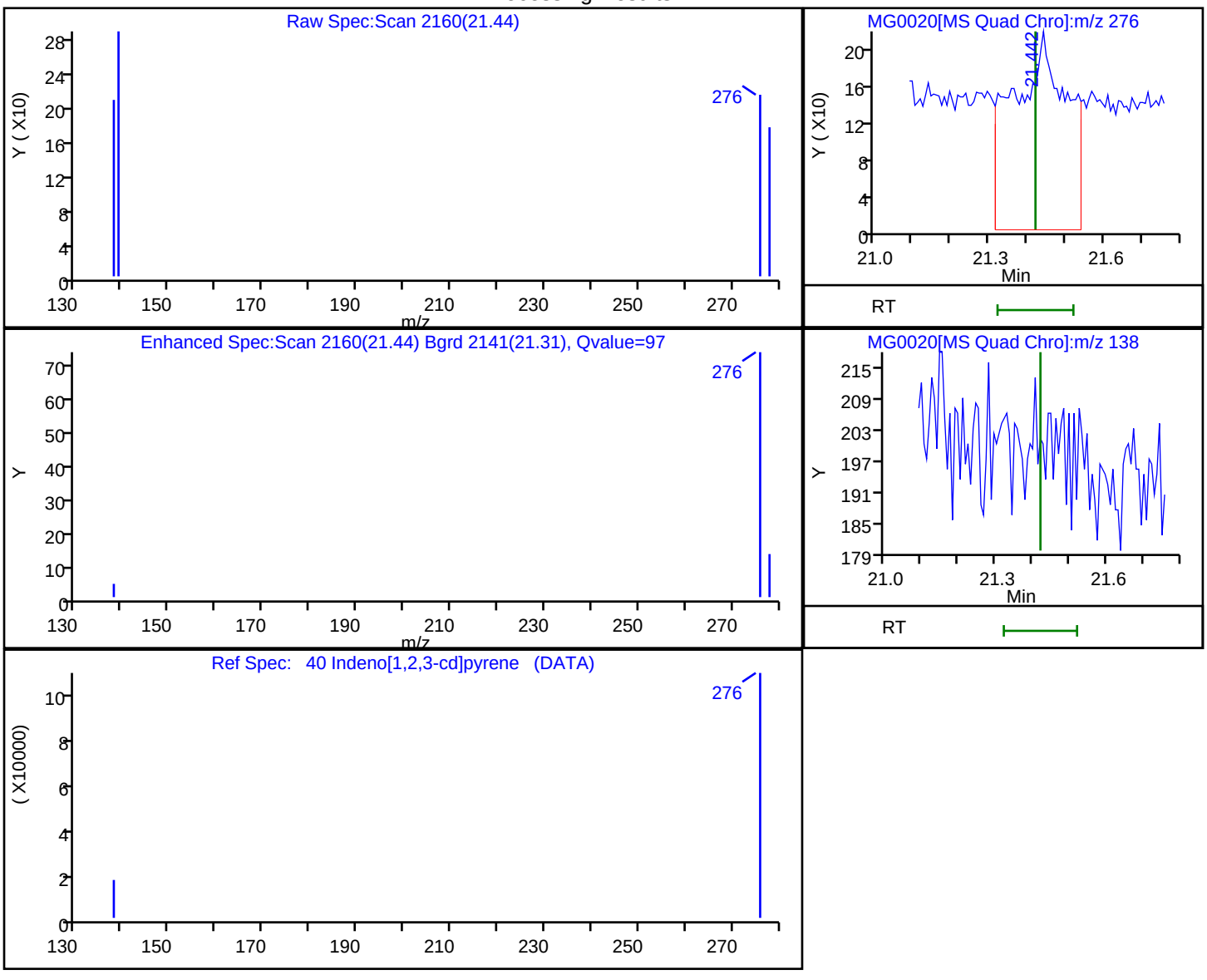
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0020.D				
Injection Date:	02-Jul-2021 02:32:27	Instrument ID:	HP21585		
Lims ID:	410-45105-A-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Processing Results



RT	Mass	Response	Amount
21.44	276.00	2048	0.005639
21.42	138.00	0	

Reviewer: transuea, 02-Jul-2021 09:55:25

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-1-20210622 RE Lab Sample ID: 410-45105-1 RE

Matrix: Groundwater Lab File ID: NG0117.D

Analysis Method: 8270D SIM Date Collected: 06/22/2021 11:32

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 243.1(mL) Date Analyzed: 07/02/2021 04:11

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144525 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*	*H*	*0.051*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.051*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.051*	*0.010*
56-55-3	*Benzo[a]anthracene*	*ND*	*H*	*0.051*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*	*H*	*0.051*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*ND*	*H*	*0.051*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
218-01-9	*Chrysene*	*ND*	*H*	*0.051*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.051*	*0.021*
206-44-0	*Fluoranthene*	*ND*	*H*	*0.051*	*0.010*
86-73-7	*Fluorene*	*ND*	*H*	*0.051*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.051*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.072*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.072*	*0.031*
129-00-0	*Pyrene*	*ND*	*H*	*0.051*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	67		36-111
93951-69-0	Fluoranthene-d10 (Surr)	85		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D
Lims ID: 410-45105-B-1-A
Client ID: MW-1-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 04:11:30 ALS Bottle#: 18 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-B-1-A
Misc. Info.: 410-0033426-019
Operator ID: art12405 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Jul-2021 08:59:00 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: transuea Date: 02-Jul-2021 08:55:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.090	6.078	0.012	100	208215	0.2500	
* 5 Naphthalene-d8	136	8.052	8.052	0.000	100	735504	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.306	9.306	0.000	100	263444	0.1682	
* 13 Acenaphthene-d10	164	10.898	10.888	0.010	100	402145	0.2500	
* 20 Phenanthrene-d10	188	12.815	12.815	0.000	100	661349	0.2500	
22 Anthracene	178	12.915	12.915	0.008	74	1330	0.000505	7M
$ 24 Fluoranthene-d10 (Surr)	212	14.484	14.484	0.000	97	581529	0.2137	
* 29 Chrysene-d12	240	16.901	16.901	0.000	82	753578	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.256	19.256	0.000	96	586071	0.1893	
* 38 Perylene-d12	264	19.386	19.386	0.000	95	838934	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

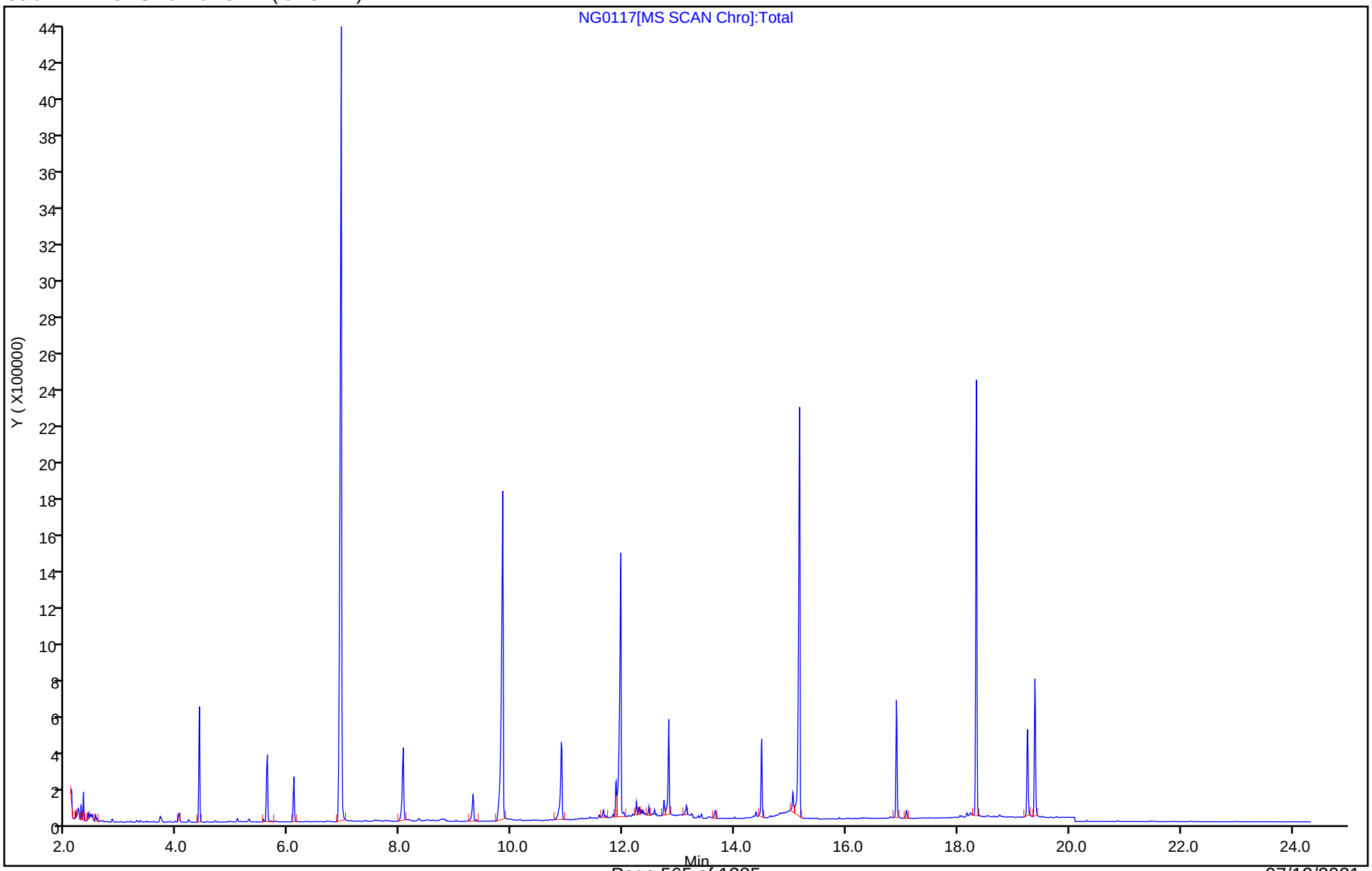
Report Date: 02-Jul-2021 09:00:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D

Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1	Worklist Smp#:	19
Client ID:	MW-1-20210622				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

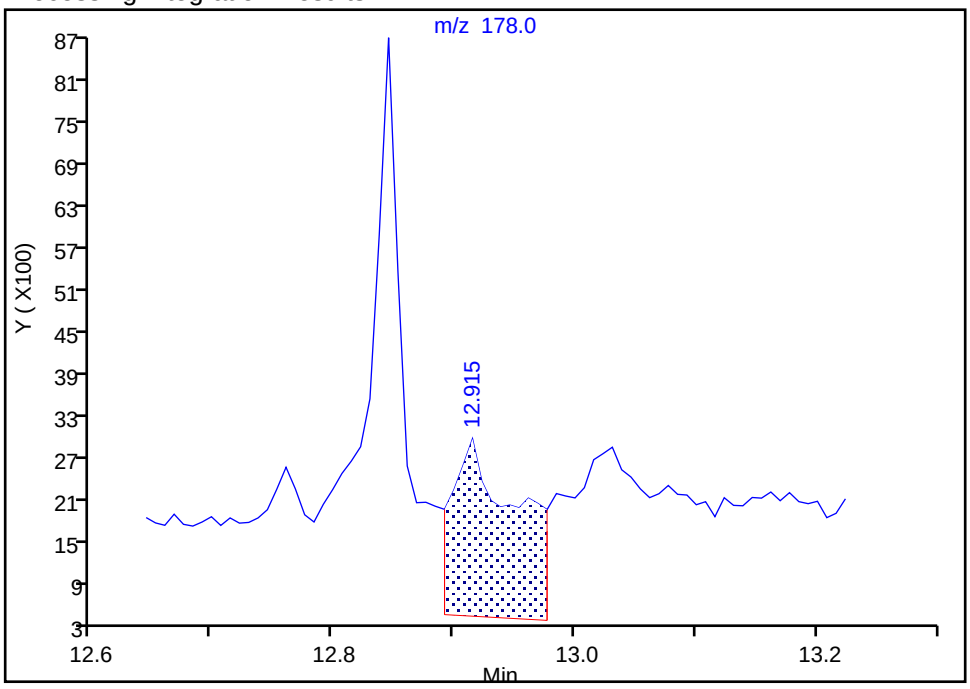
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D		
Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1
Client ID:	MW-1-20210622		
Operator ID:	art12405	ALS Bottle#:	18 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

22 Anthracene, CAS: 120-12-7

Signal: 1

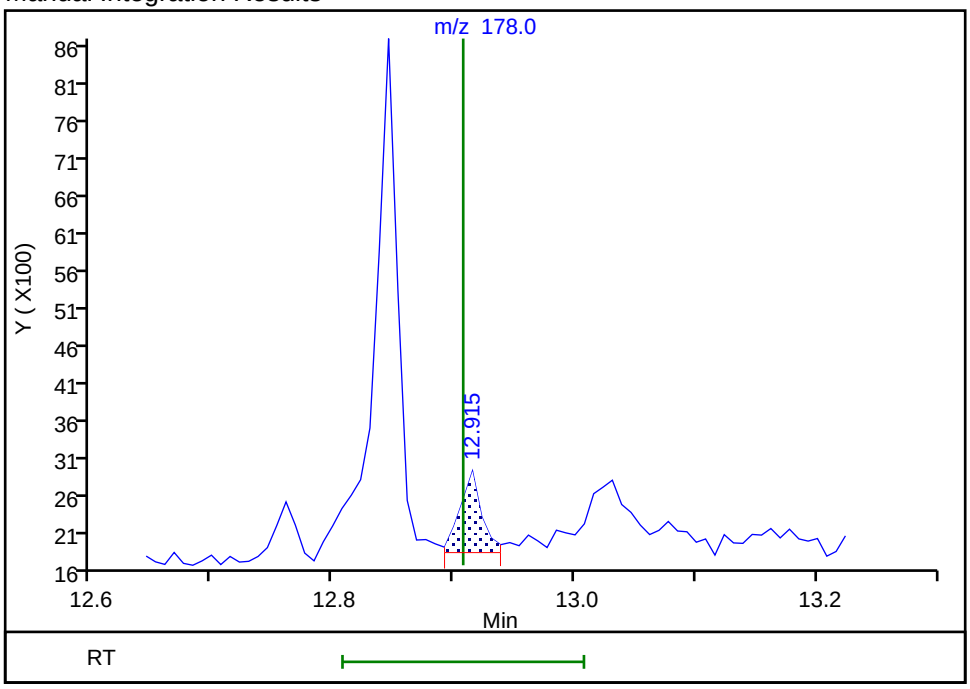
Processing Integration Results

RT: 12.92
Area: 9139
Amount: 0.003470
Amount Units: ug/ml



Manual Integration Results

RT: 12.92
Area: 1330
Amount: 0.000505
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 08:55:08
Audit Action: Manually Integrated Audit Reason: Baseline

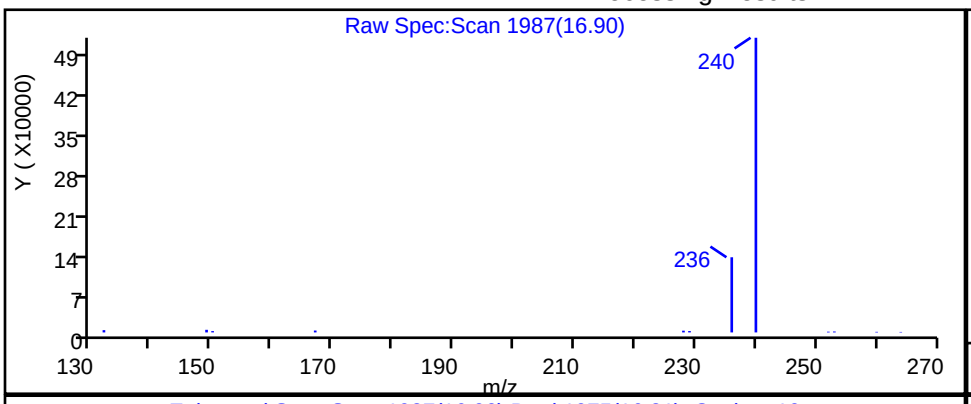
User Disabled Compound Report

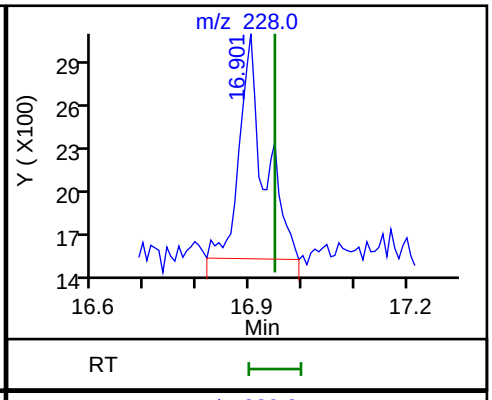
Eurofins Lancaster Laboratories Env, LLC

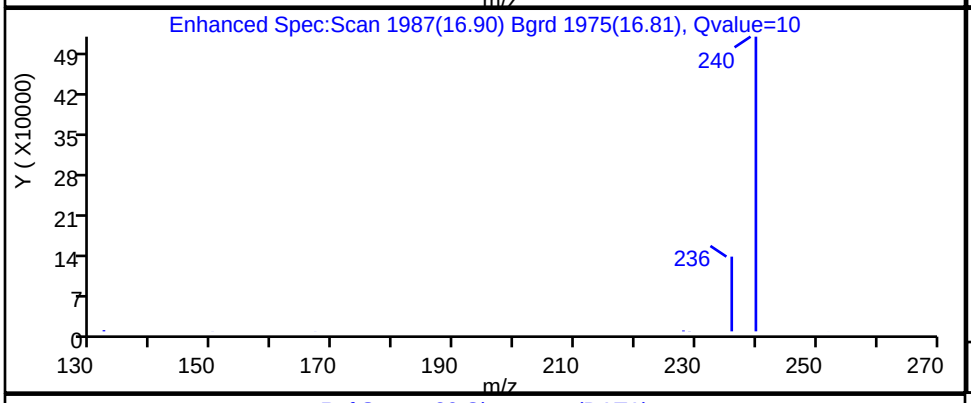
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D				
Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

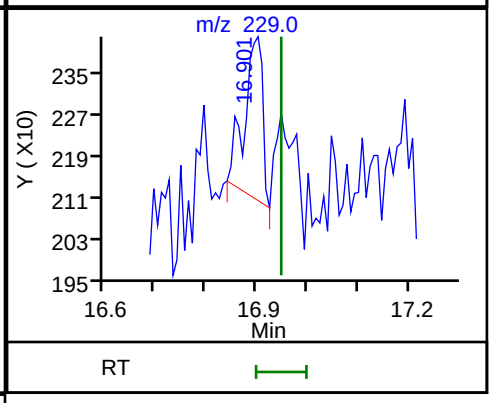
30 Chrysene, CAS: 218-01-9

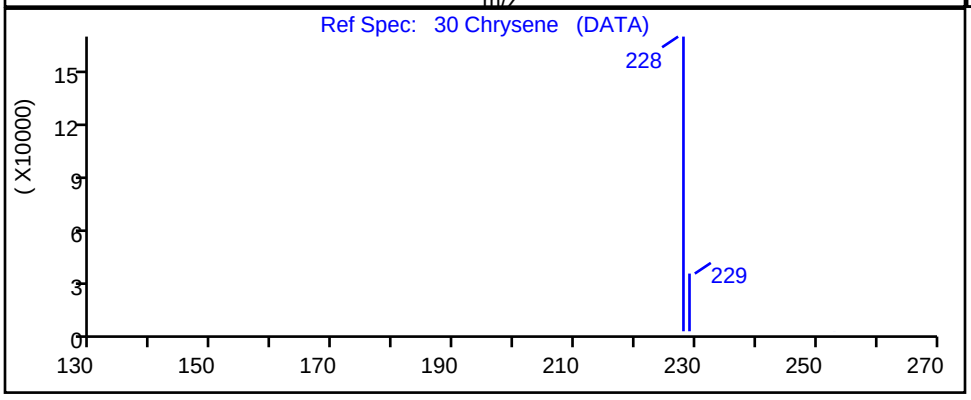
Processing Results











RT	Mass	Response	Amount
16.90	228.00	5044	0.001443
16.90	229.00	772	

Reviewer: transuea, 02-Jul-2021 08:55:19

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

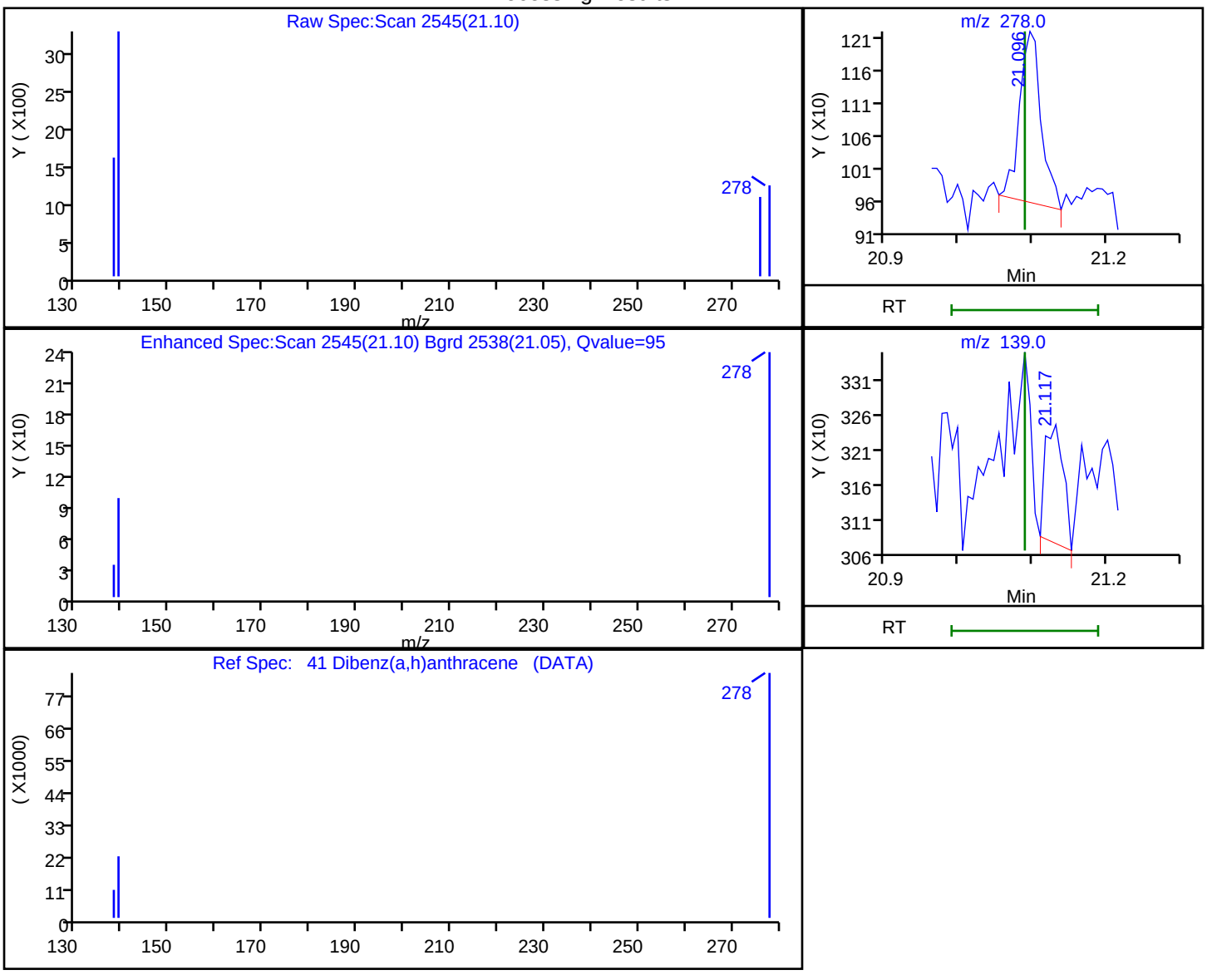
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D				
Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.10	278.00	522	0.006818
21.12	139.00	286	

Reviewer: transuea, 02-Jul-2021 08:55:23

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

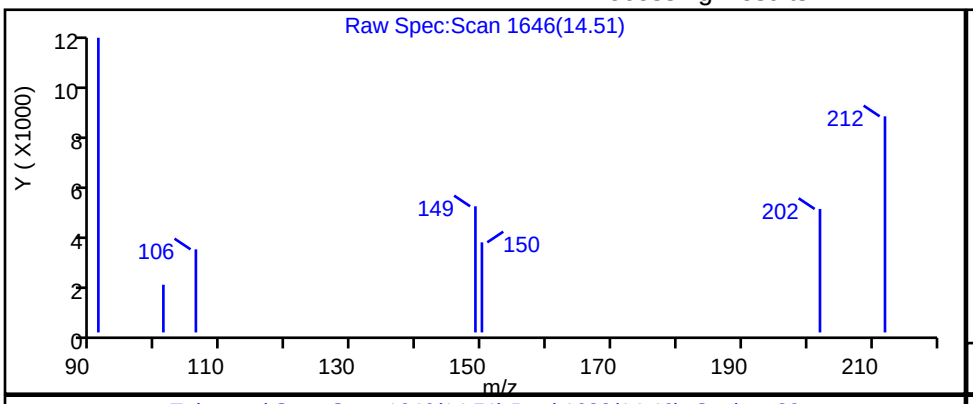
User Disabled Compound Report

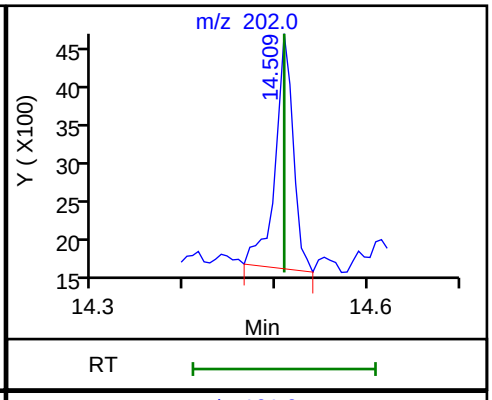
Eurofins Lancaster Laboratories Env, LLC

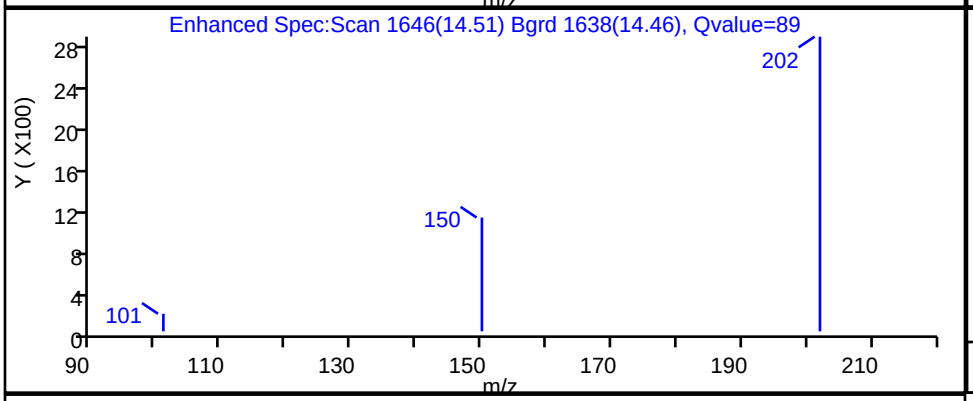
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D				
Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

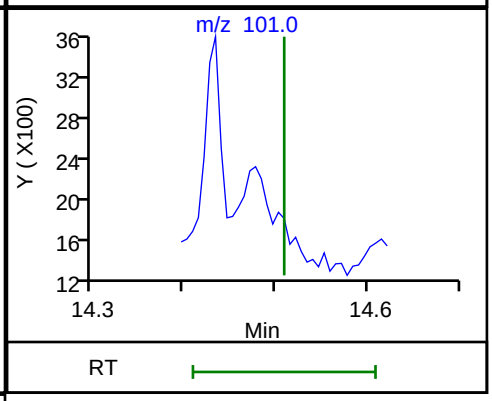
25 Fluoranthene, CAS: 206-44-0

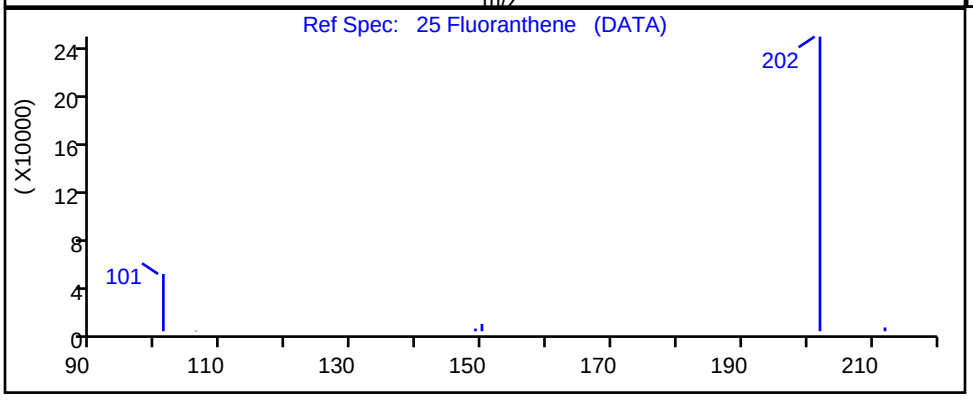
Processing Results











RT	Mass	Response	Amount
14.51	202.00	4088	0.001307
14.51	101.00	0	

Reviewer: transuea, 02-Jul-2021 08:55:15

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

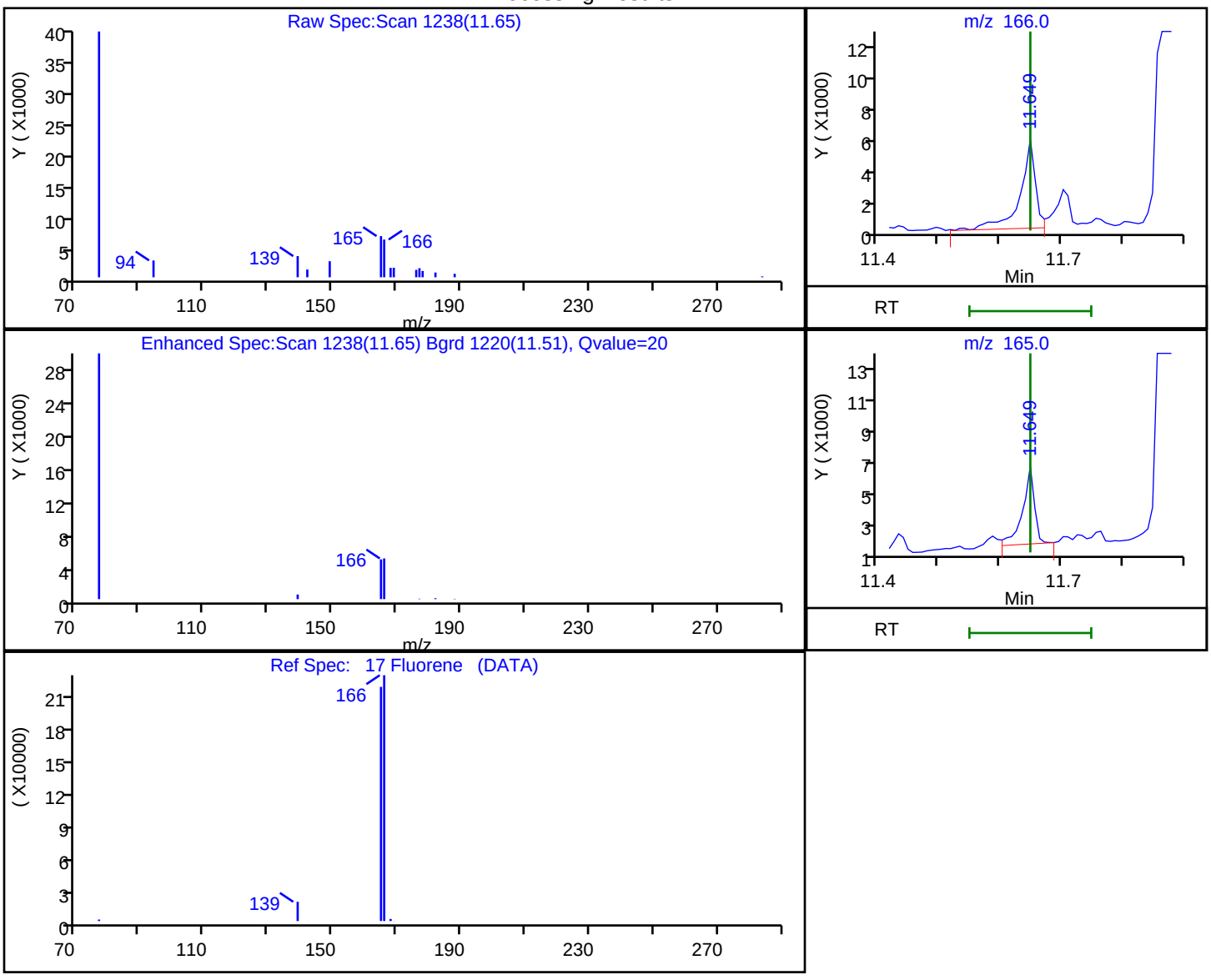
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D				
Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
11.65	166.00	8818	0.003825
11.65	165.00	6148	

Reviewer: transuea, 02-Jul-2021 08:54:58

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

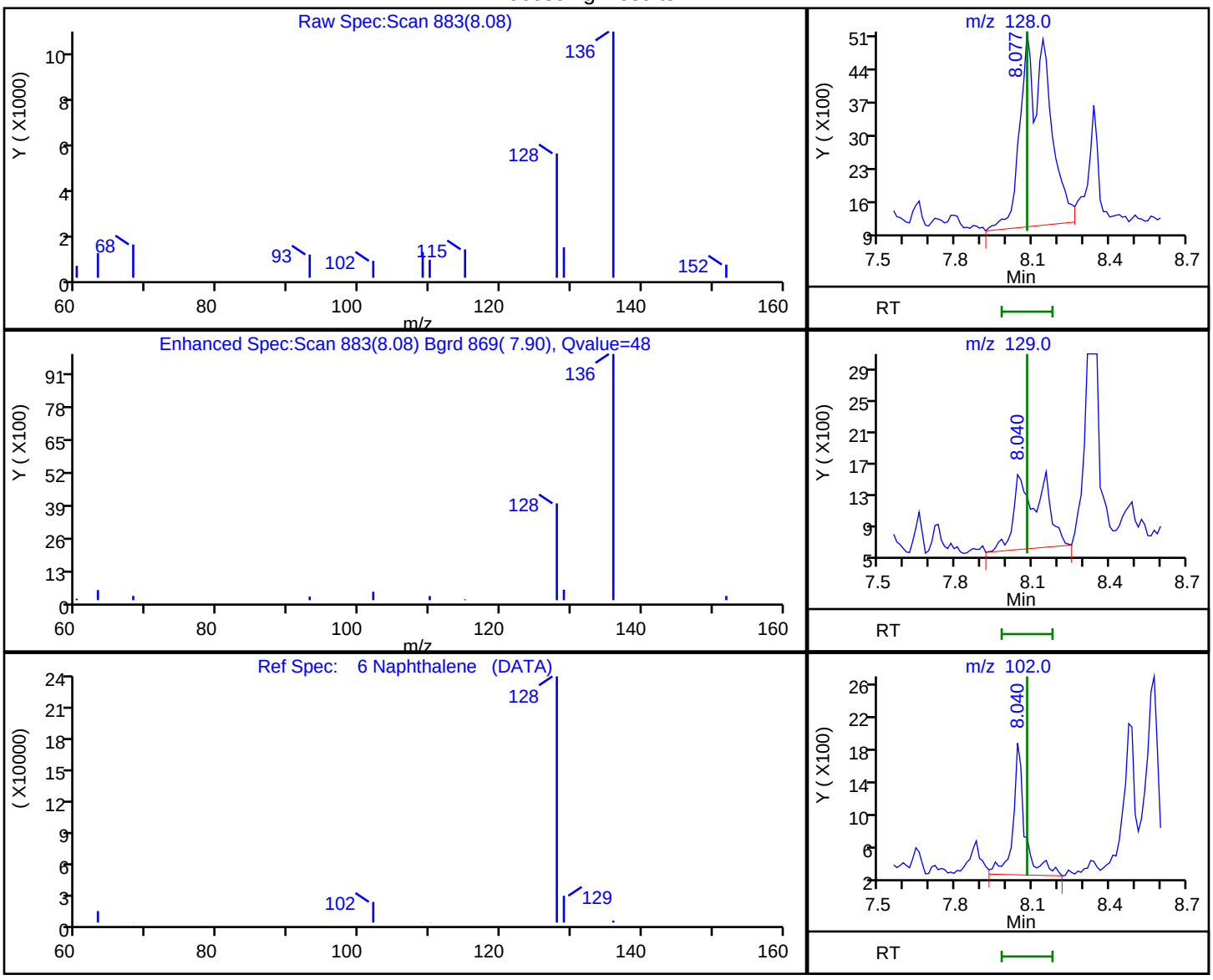
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0117.D				
Injection Date:	02-Jul-2021 04:11:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-1-A	Lab Sample ID:	410-45105-1		
Client ID:	MW-1-20210622				
Operator ID:	art12405	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
8.08	128.00	31661	0.010447
8.04	129.00	7448	
8.04	102.00	5057	

Reviewer: transuea, 02-Jul-2021 08:54:51

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-10S-20210622 Lab Sample ID: 410-45105-2

Matrix: Groundwater Lab File ID: MG0021.D

Analysis Method: 8270D SIM Date Collected: 06/22/2021 13:25

Extract. Method: 3510C Date Extracted: 06/29/2021 09:35

Sample wt/vol: 224.8(mL) Date Analyzed: 07/02/2021 03:03

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144441 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.056	0.011
208-96-8	Acenaphthylene	ND		0.056	0.011
120-12-7	Anthracene	ND		0.056	0.011
56-55-3	Benzo[a]anthracene	0.019	J B	0.056	0.011
50-32-8	Benzo[a]pyrene	0.023	J B	0.056	0.011
205-99-2	Benzo[b]fluoranthene	0.025	J B	0.056	0.011
191-24-2	Benzo[g,h,i]perylene	0.019	J B	0.056	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.056	0.011
218-01-9	Chrysene	0.016	J B	0.056	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.056	0.022
206-44-0	Fluoranthene	0.016	J	0.056	0.011
86-73-7	Fluorene	ND		0.056	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.056	0.022
91-20-3	Naphthalene	ND		0.078	0.033
85-01-8	Phenanthrene	ND		0.078	0.033
129-00-0	Pyrene	0.020	J B	0.056	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	74		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		36-111
93951-69-0	Fluoranthene-d10 (Surr)	80		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0021.D
Lims ID: 410-45105-A-2-A
Client ID: MW-10S-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 03:03:16 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-3-A
Misc. Info.: 410-0033409-013
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Jul-2021 10:09:39 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: transuea Date: 02-Jul-2021 09:58:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	94	11970	0.2500	
* 5 Naphthalene-d8	136	8.584	8.585	-0.001	92	41652	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	20777	0.1919	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	98	27547	0.2500	
* 20 Phenanthrene-d10	188	13.273	13.273	0.000	97	57988	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	96	54340	0.2003	
25 Fluoranthene	202	14.943	14.943	0.000	97	1130	0.003491	M
26 Pyrene	202	15.288	15.288	0.000	96	1418	0.004600	M
28 Benzo[a]anthracene	228	17.286	17.294	0.000	100	1348	0.004175	M
* 29 Chrysene-d12	240	17.309	17.309	0.000	58	62254	0.2500	
30 Chrysene	228	17.348	17.356	-0.007	100	1189	0.003493	M
33 Benzo[b]fluoranthene	252	19.165	19.166	0.015	99	2034	0.005631	M
34 Benzo[k]fluoranthene	252	19.204	19.204	0.008	99	852	0.002175	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	98	54630	0.1842	M
37 Benzo[a]pyrene	252	19.679	19.679	0.000	99	1791	0.005134	M
* 38 Perylene-d12	264	19.771	19.771	0.000	97	77570	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.434	21.442	0.014	97	1369	0.004178	M
42 Benzo[g,h,i]perylene	276	21.865	21.865	0.014	94	1675	0.004308	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

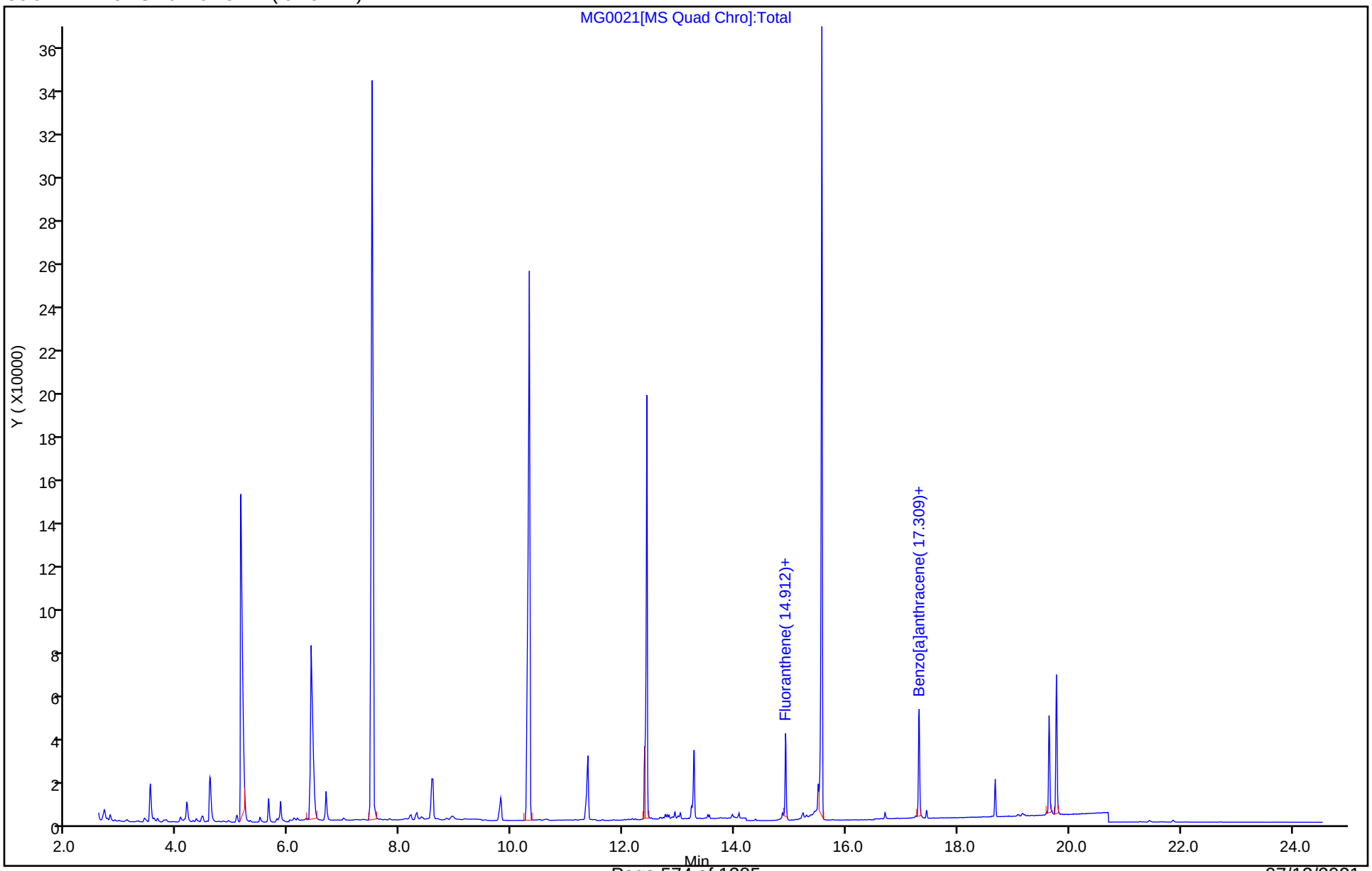
Report Date: 02-Jul-2021 10:12:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2	Worklist Smp#:	13
Client ID:	MW-10S-20210622				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

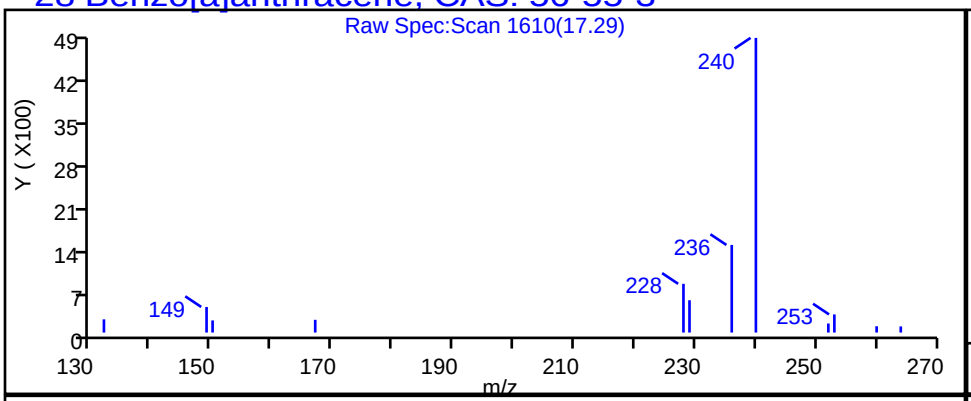
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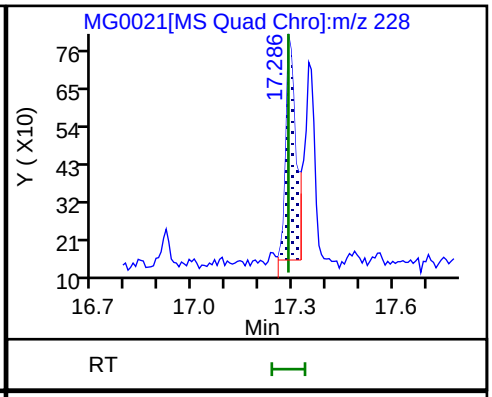


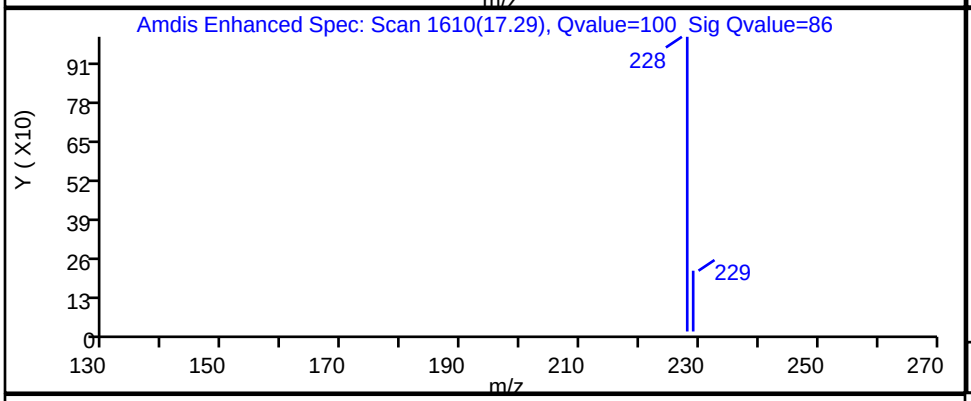
Eurofins Lancaster Laboratories Env, LLC

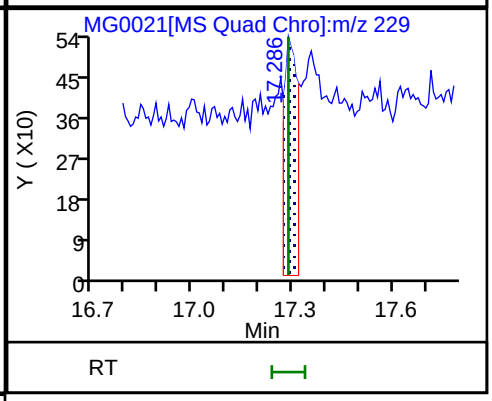
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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2
Client ID:	MW-10S-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

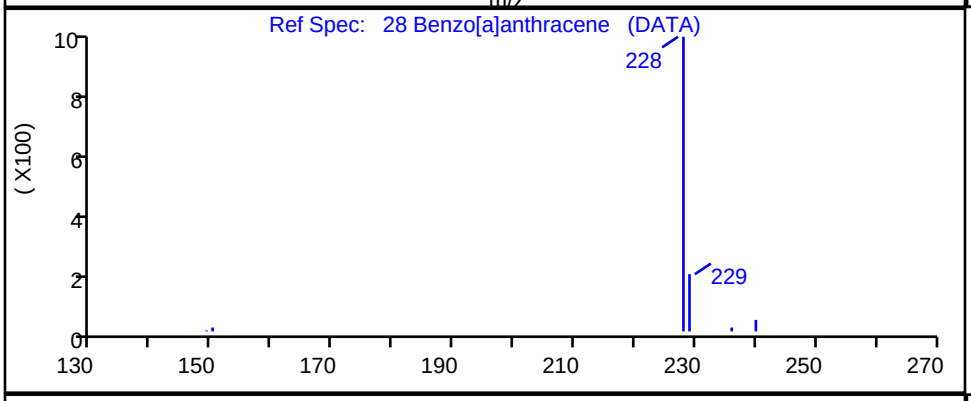
28 Benzo[a]anthracene, CAS: 56-55-3

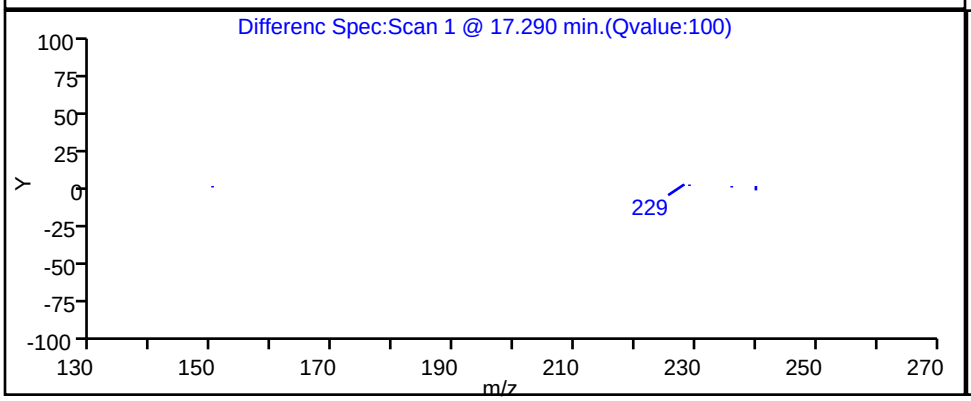


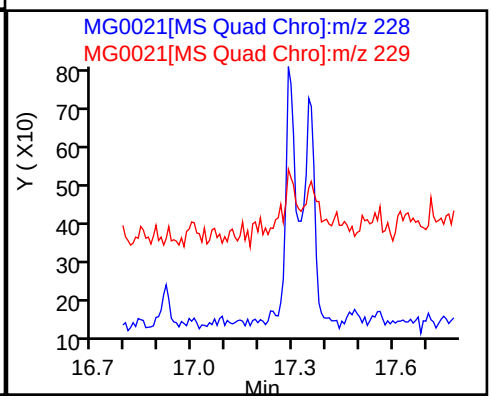








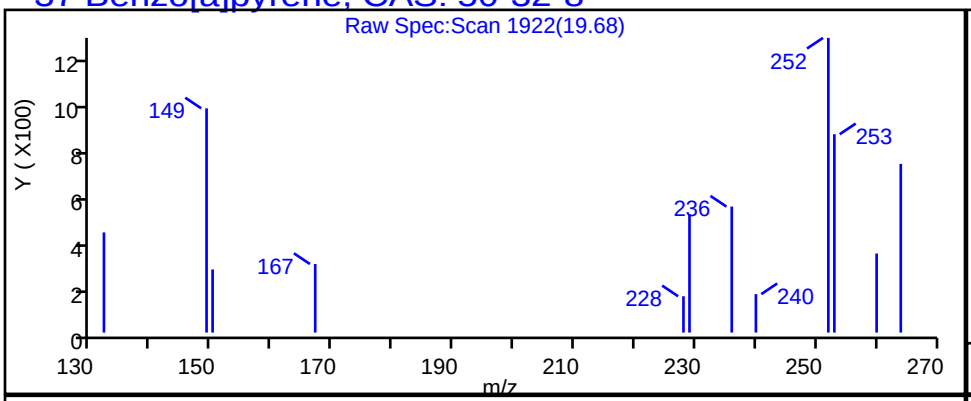


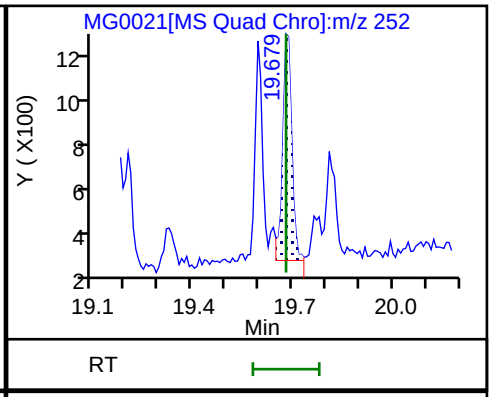


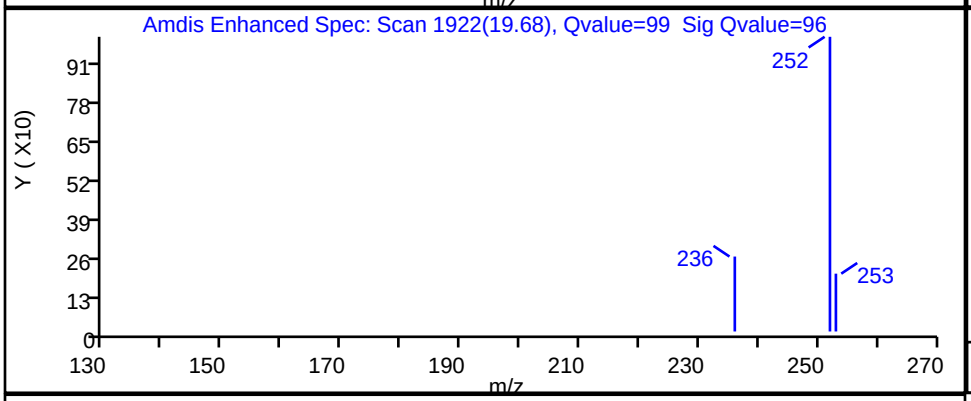
Eurofins Lancaster Laboratories Env, LLC

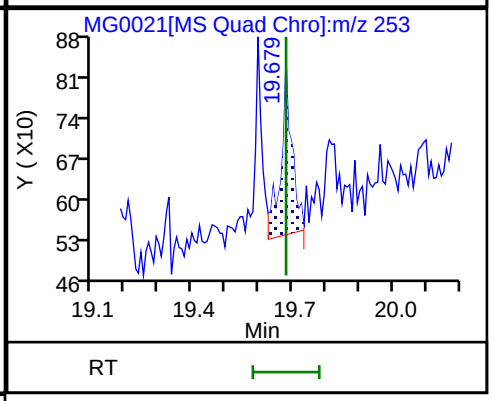
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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2
Client ID:	MW-10S-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

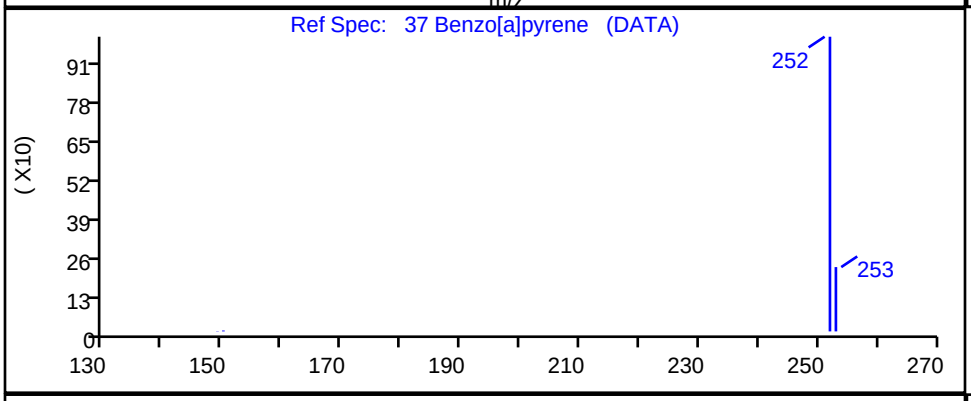
37 Benzo[a]pyrene, CAS: 50-32-8

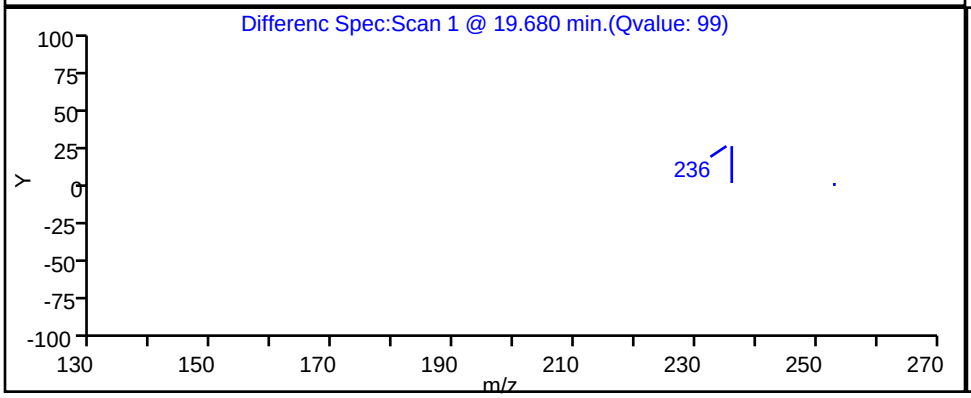


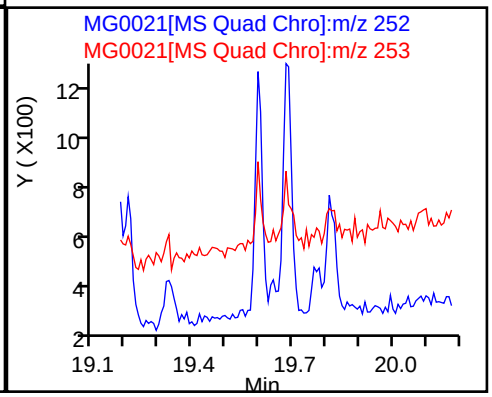








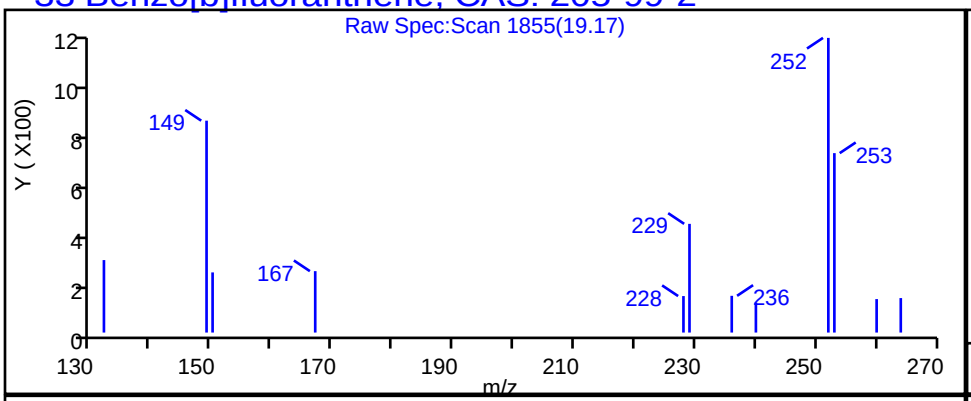


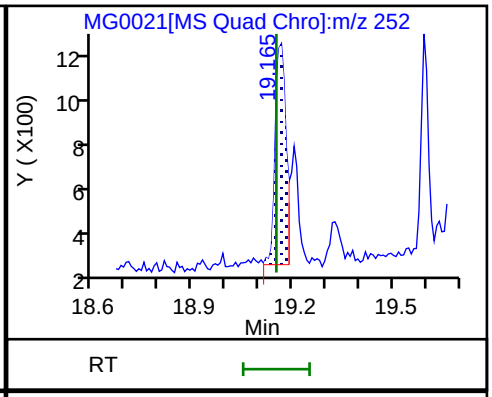


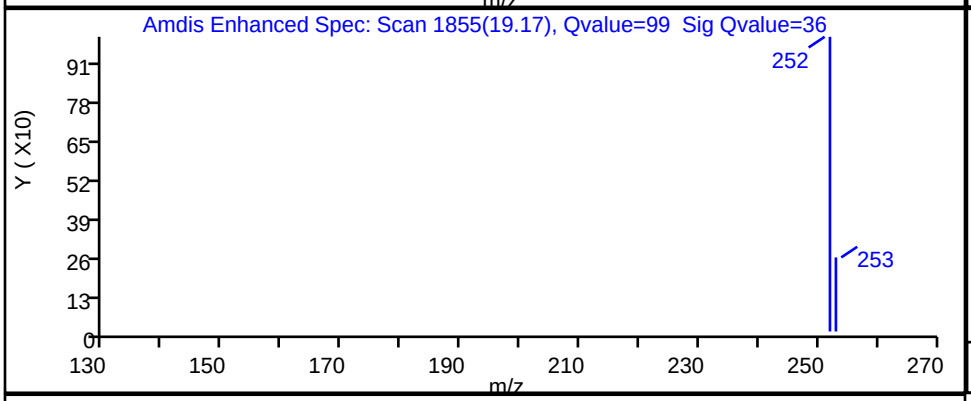
Eurofins Lancaster Laboratories Env, LLC

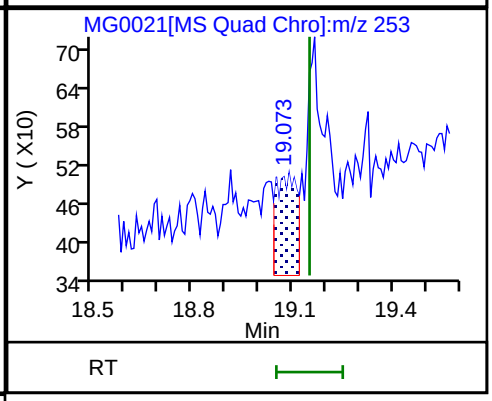
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

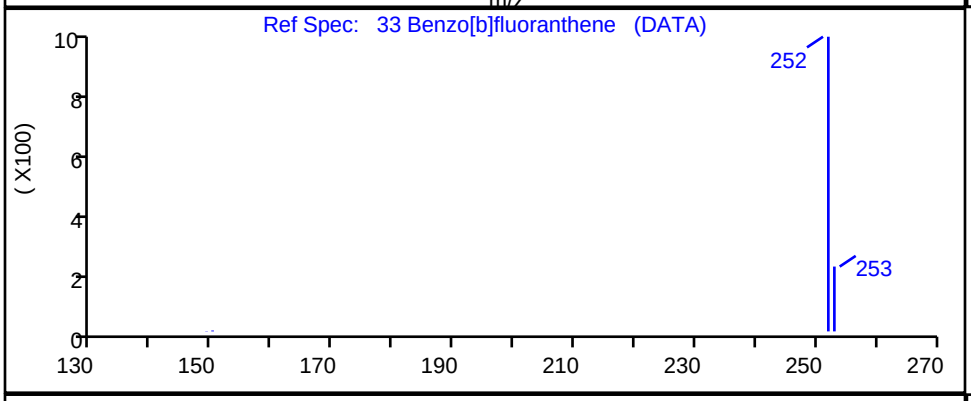
33 Benzo[b]fluoranthene, CAS: 205-99-2

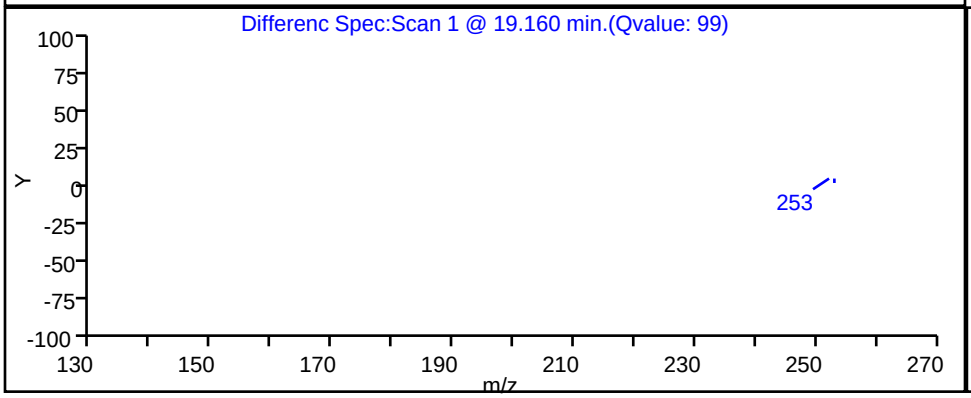


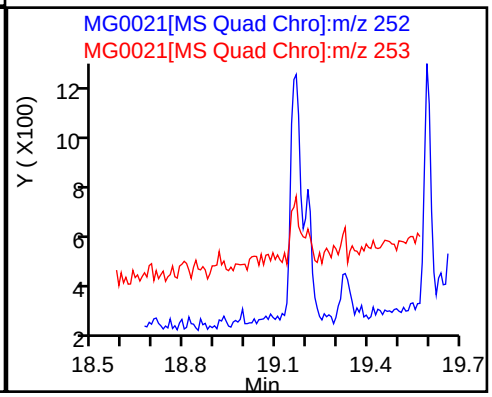








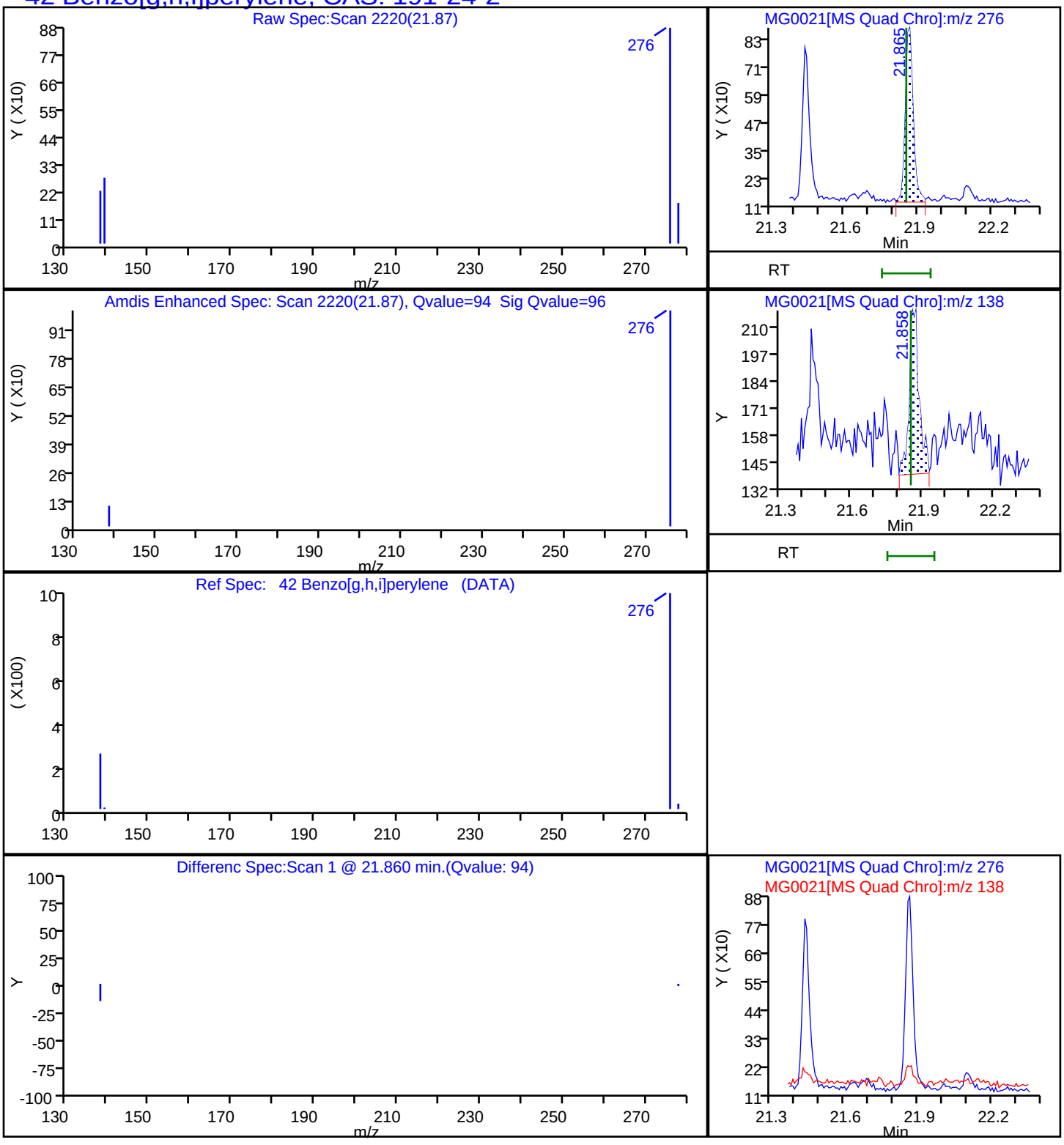




Eurofins Lancaster Laboratories Env, LLC

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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

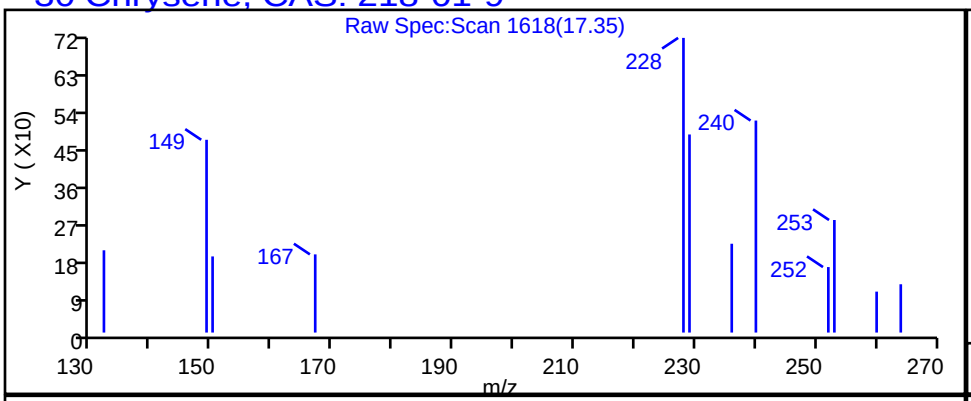


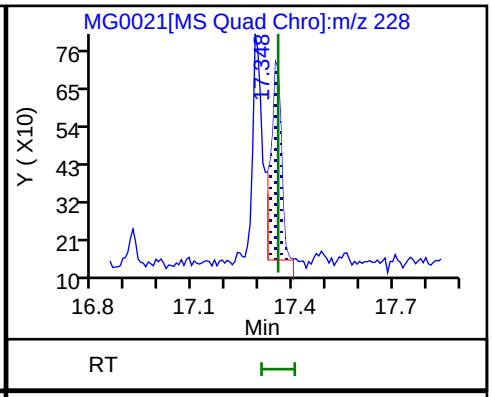
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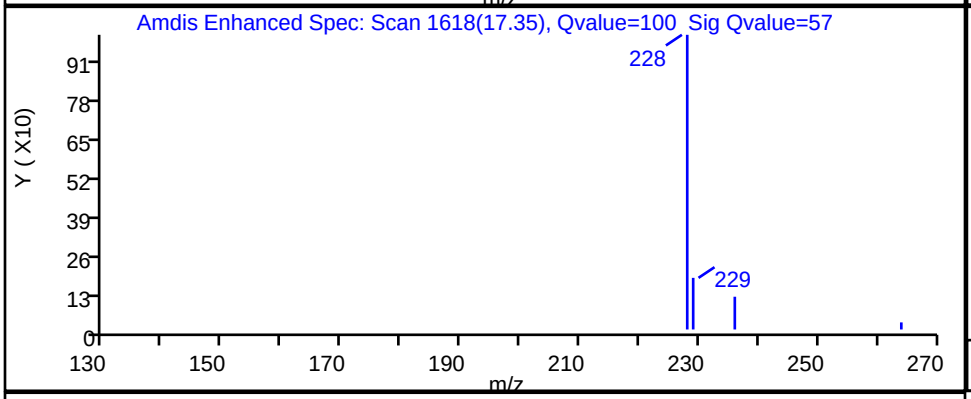
Eurofins Lancaster Laboratories Env, LLC

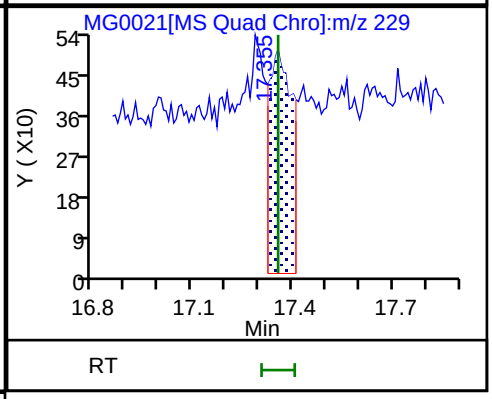
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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585		
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

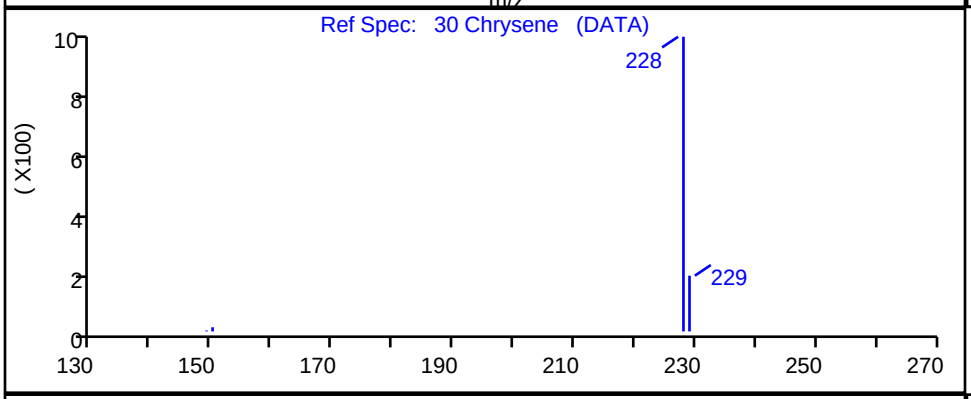
30 Chrysene, CAS: 218-01-9

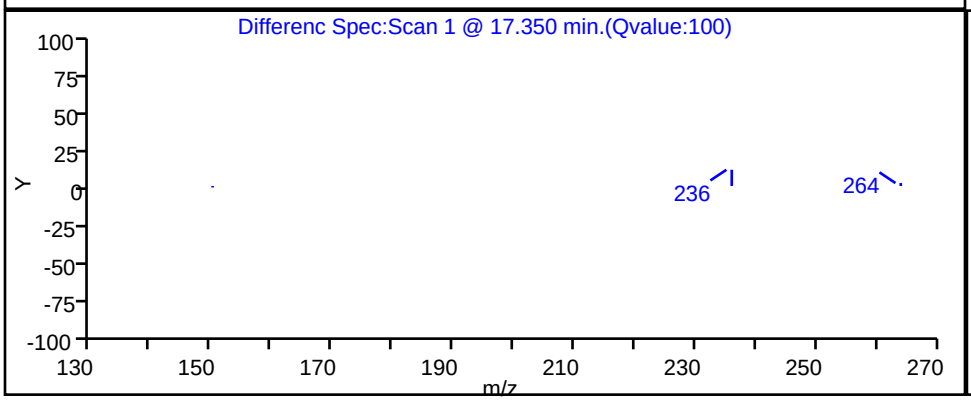


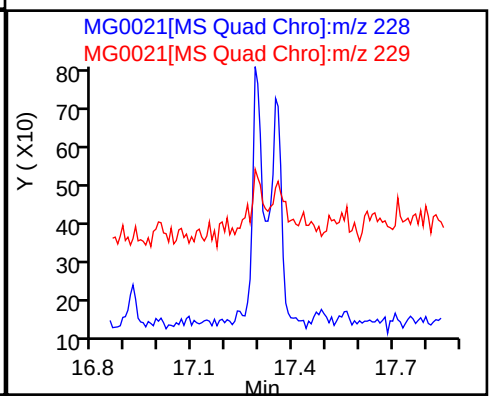












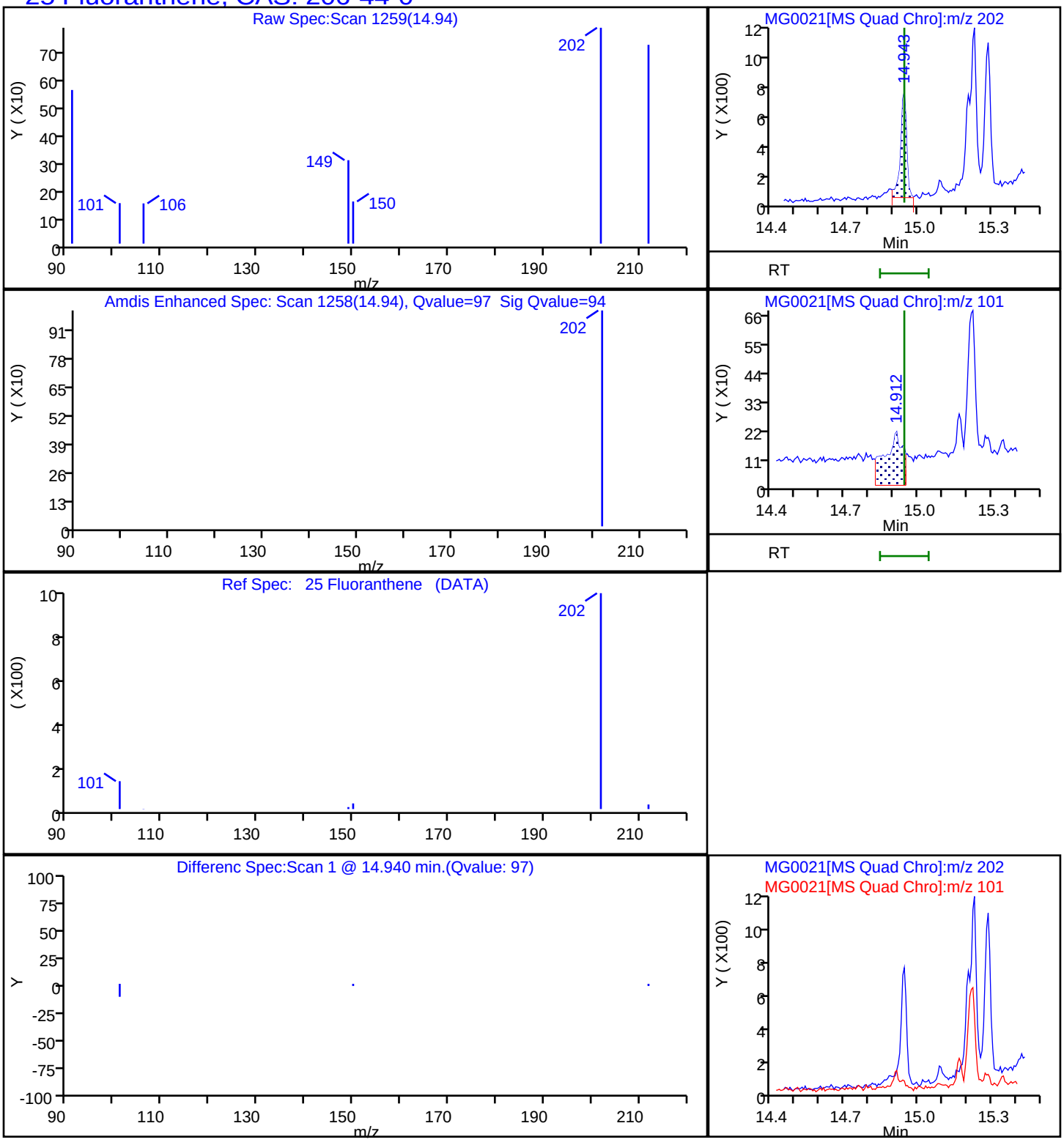
Report Date: 02-Jul-2021 10:12:31 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0021.D

Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585		
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

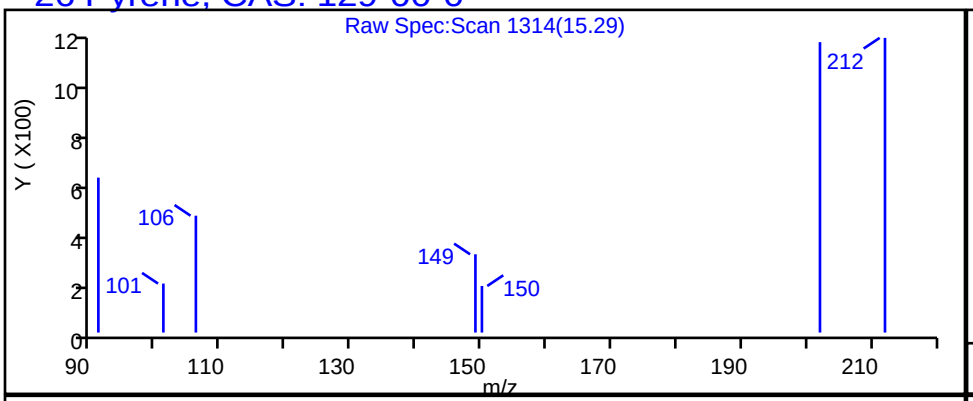
25 Fluoranthene, CAS: 206-44-0

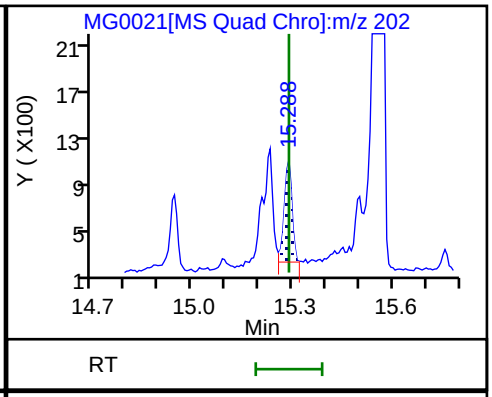


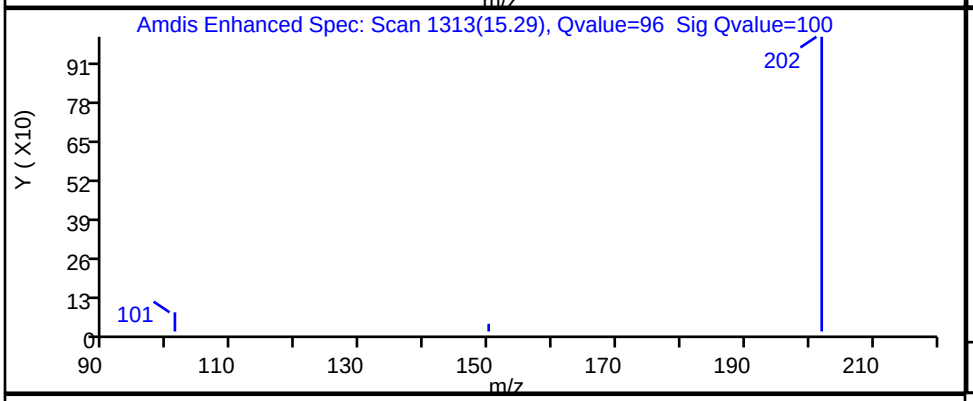
Eurofins Lancaster Laboratories Env, LLC

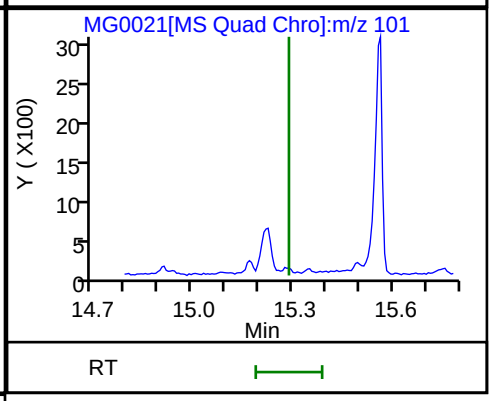
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2
Client ID:	MW-10S-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

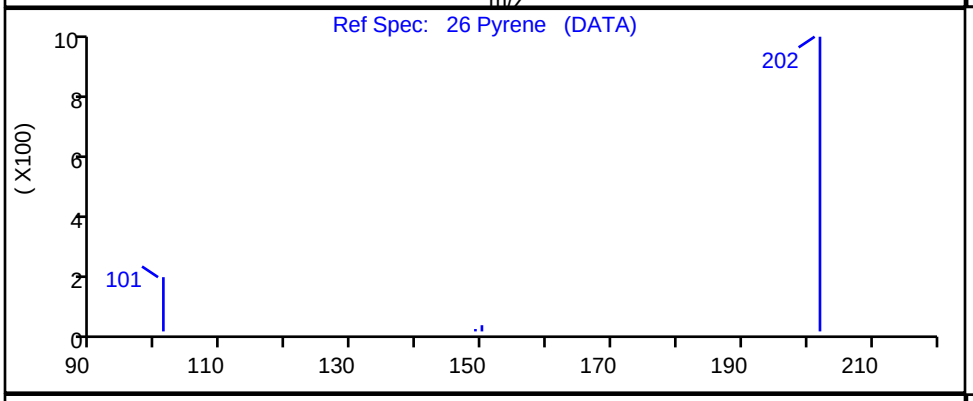
26 Pyrene, CAS: 129-00-0

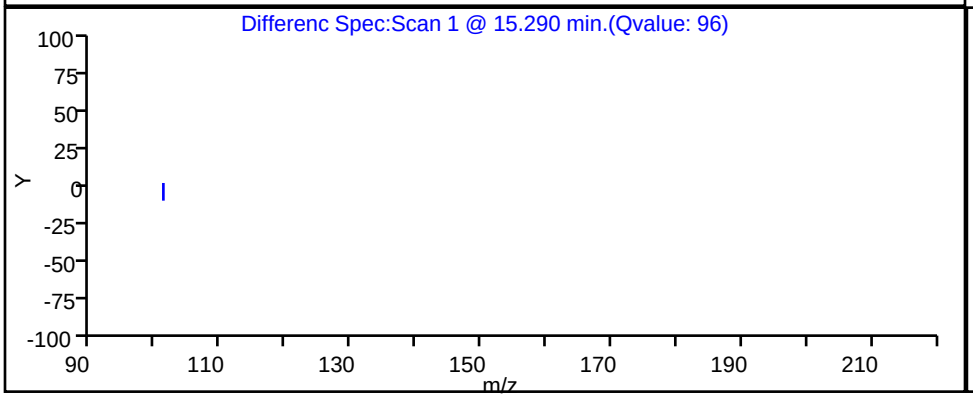


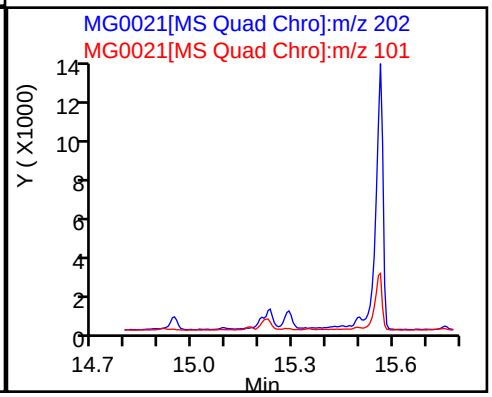












Eurofins Lancaster Laboratories Env, LLC

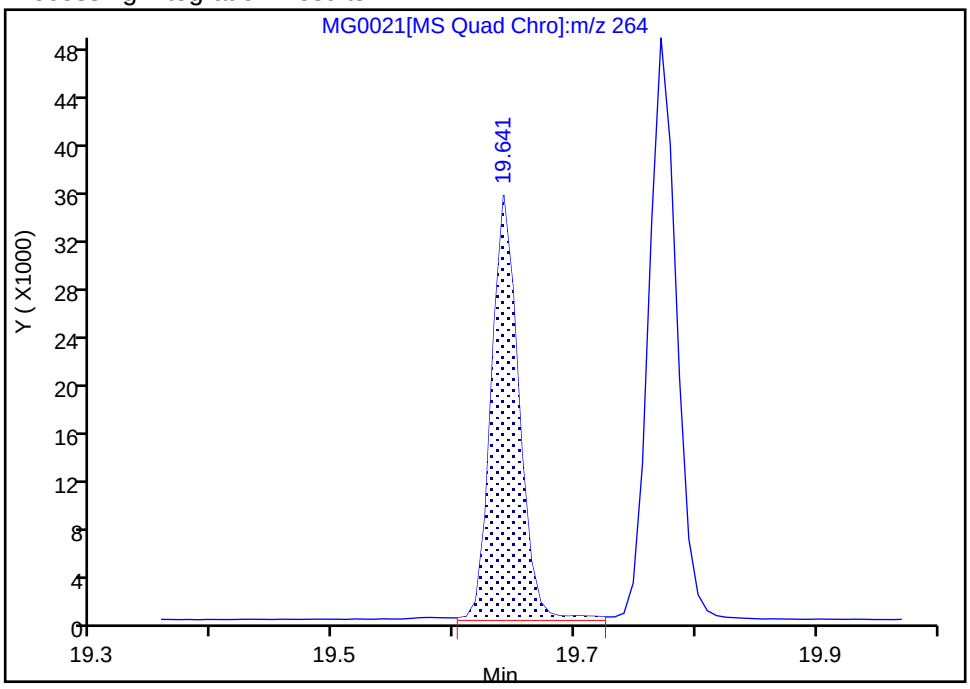
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

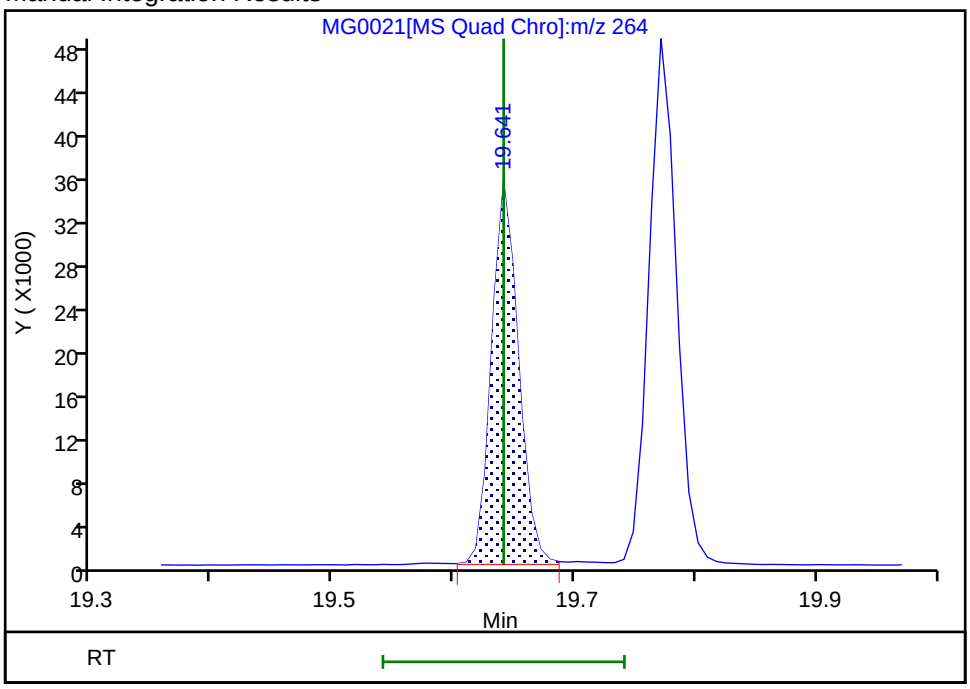
Processing Integration Results

RT: 19.64
Area: 56100
Amount: 0.189140
Amount Units: ug/ml



Manual Integration Results

RT: 19.64
Area: 54630
Amount: 0.184184
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:57:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

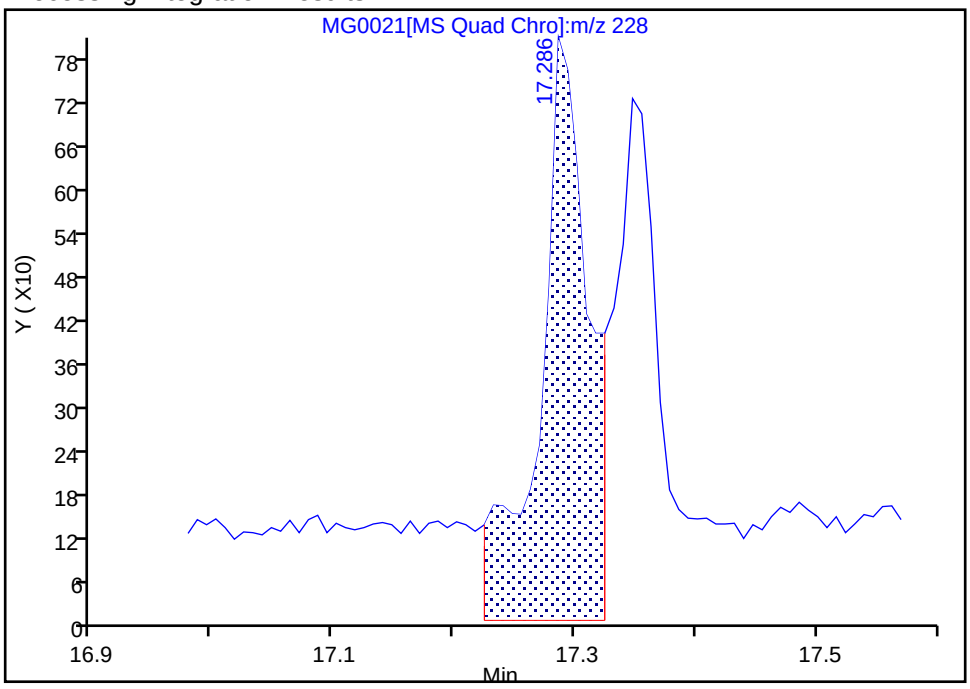
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

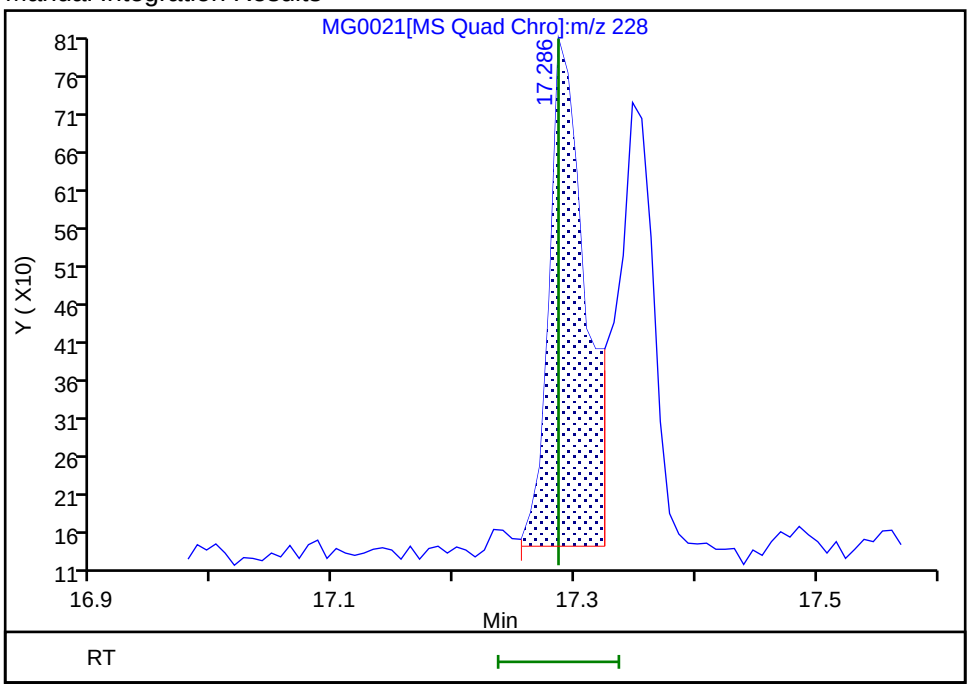
Processing Integration Results

RT: 17.29
Area: 2193
Amount: 0.006792
Amount Units: ug/ml



Manual Integration Results

RT: 17.29
Area: 1348
Amount: 0.004175
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:56:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

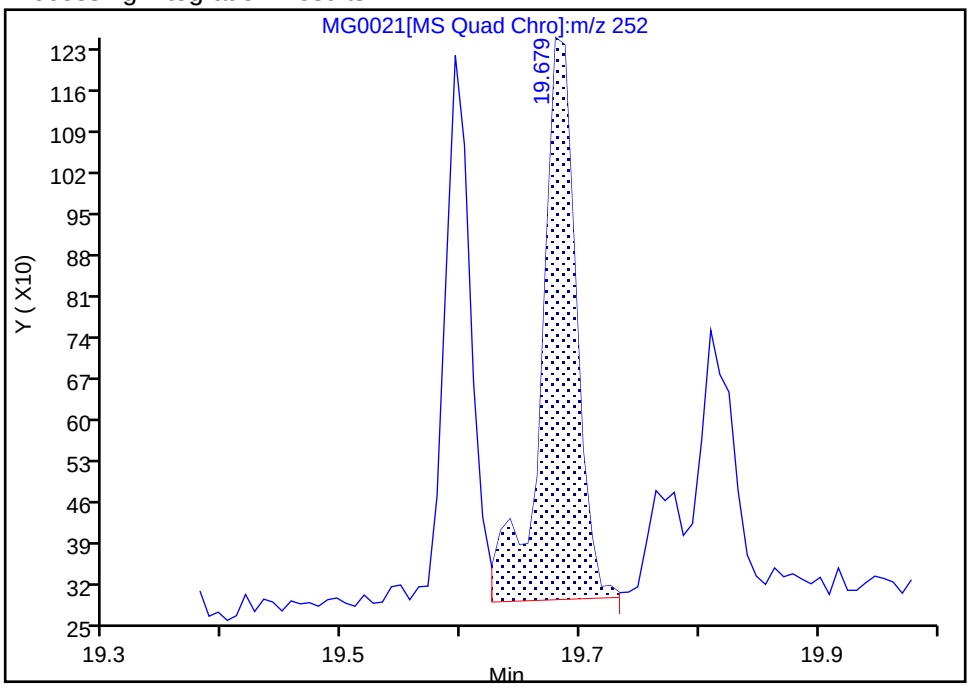
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

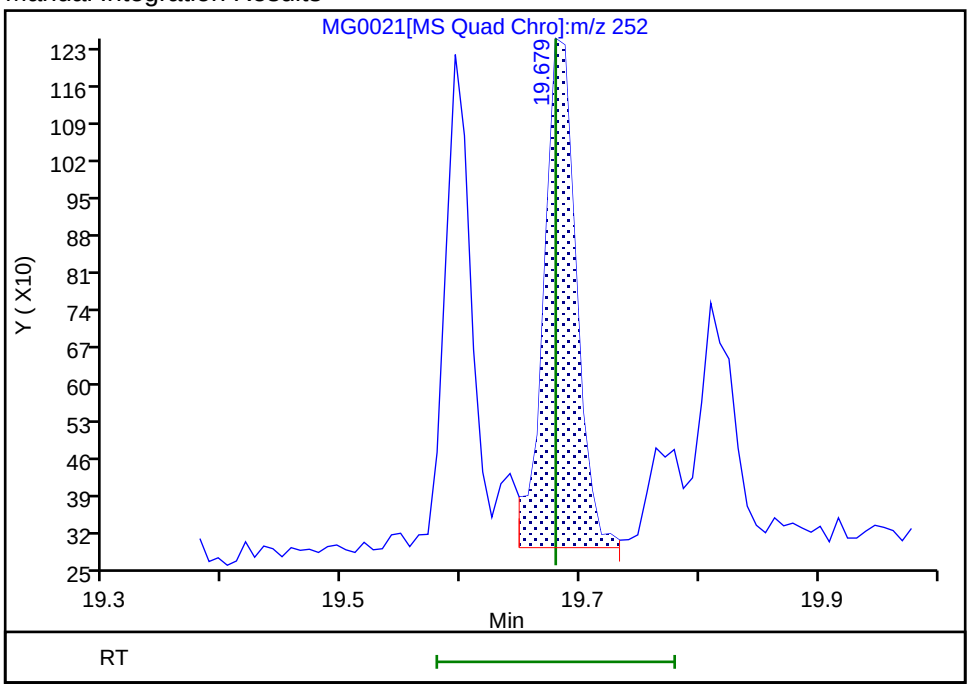
Processing Integration Results

RT: 19.68
Area: 1933
Amount: 0.005541
Amount Units: ug/ml



Manual Integration Results

RT: 19.68
Area: 1791
Amount: 0.005134
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:57:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

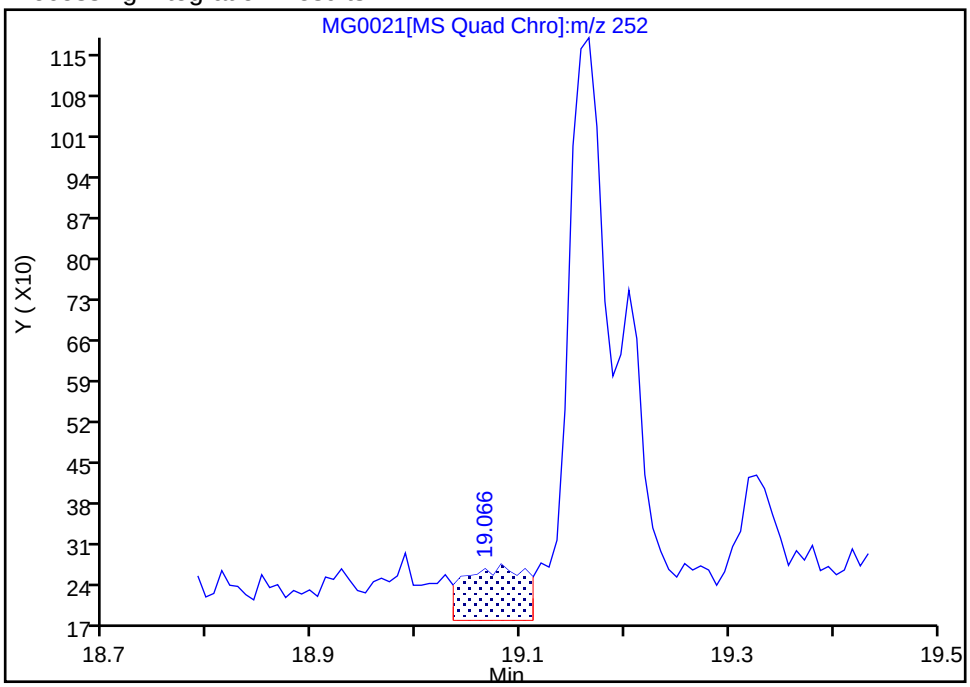
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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585		
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

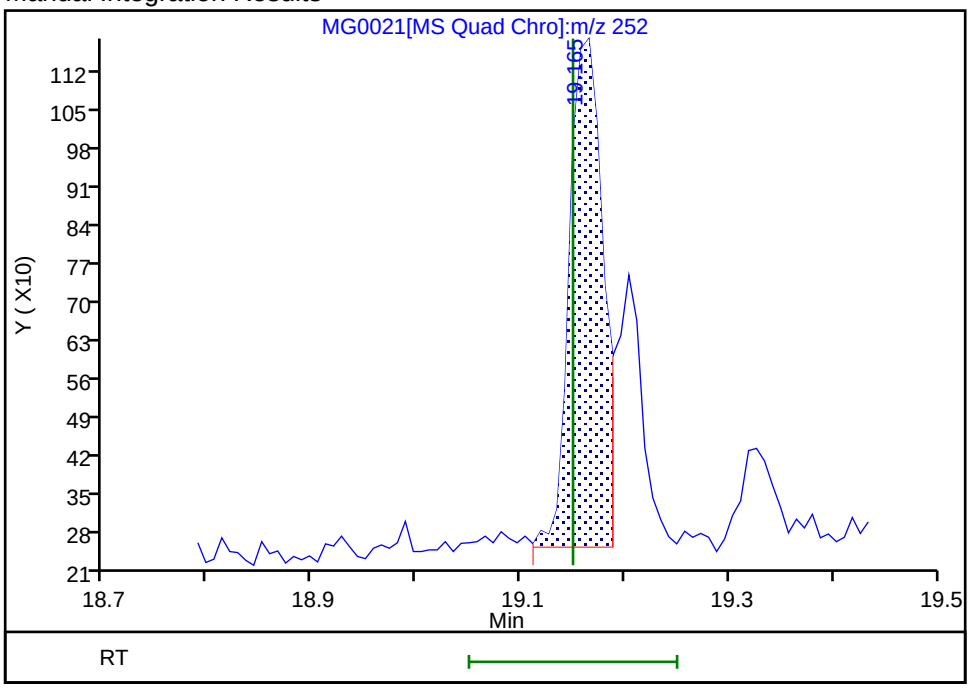
Processing Integration Results

RT: 19.07
Area: 369
Amount: 0.001022
Amount Units: ug/ml



Manual Integration Results

RT: 19.17
Area: 2034
Amount: 0.005631
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:57:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

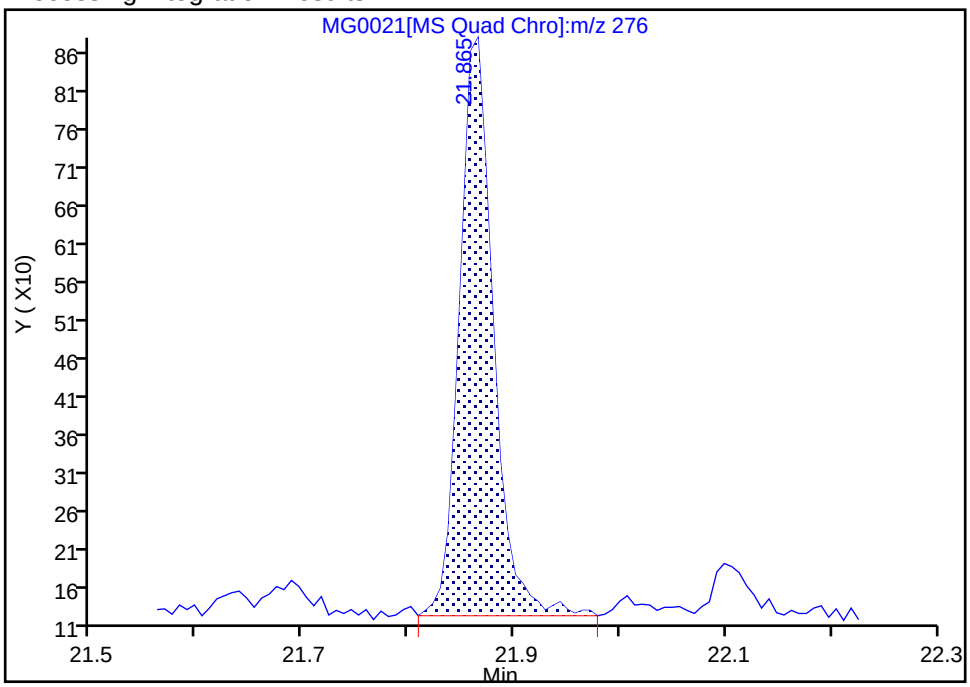
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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585		
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

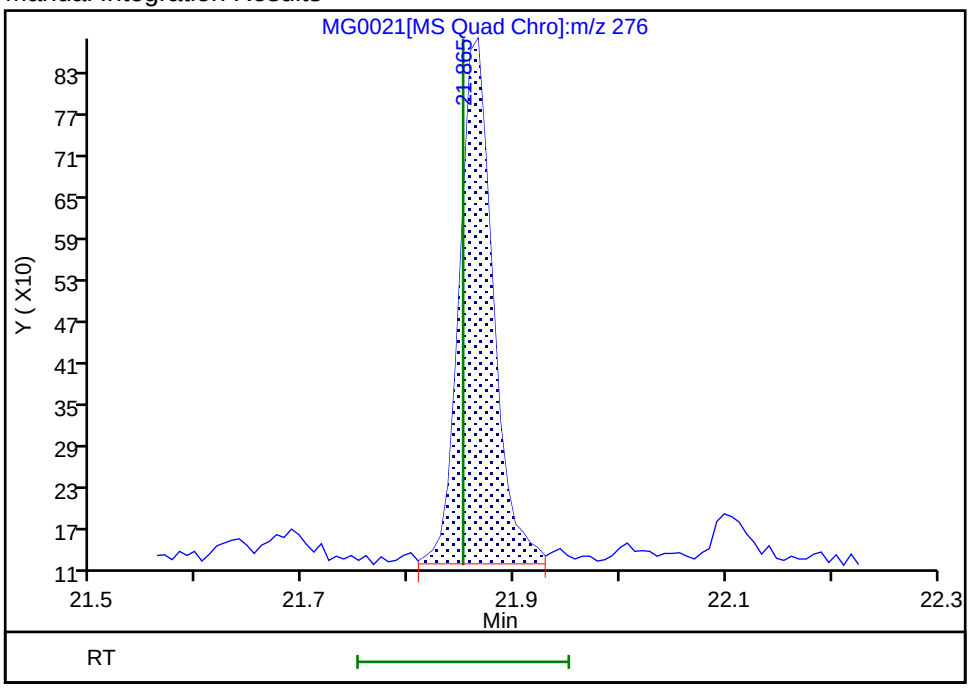
Processing Integration Results

RT: 21.87
Area: 1671
Amount: 0.004298
Amount Units: ug/ml



Manual Integration Results

RT: 21.87
Area: 1675
Amount: 0.004308
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:58:10

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

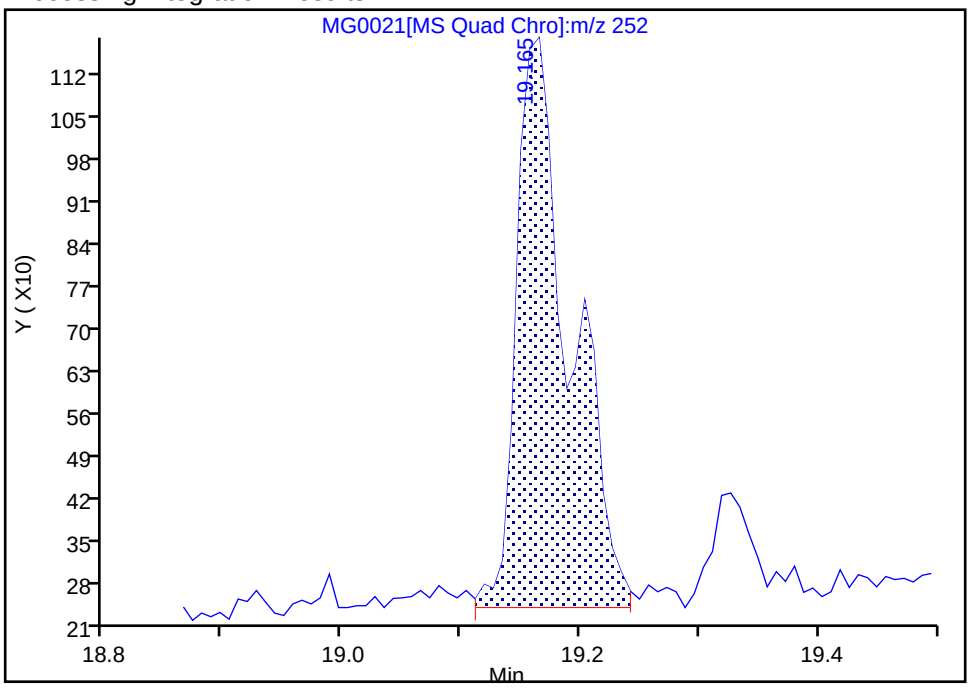
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Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585		
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

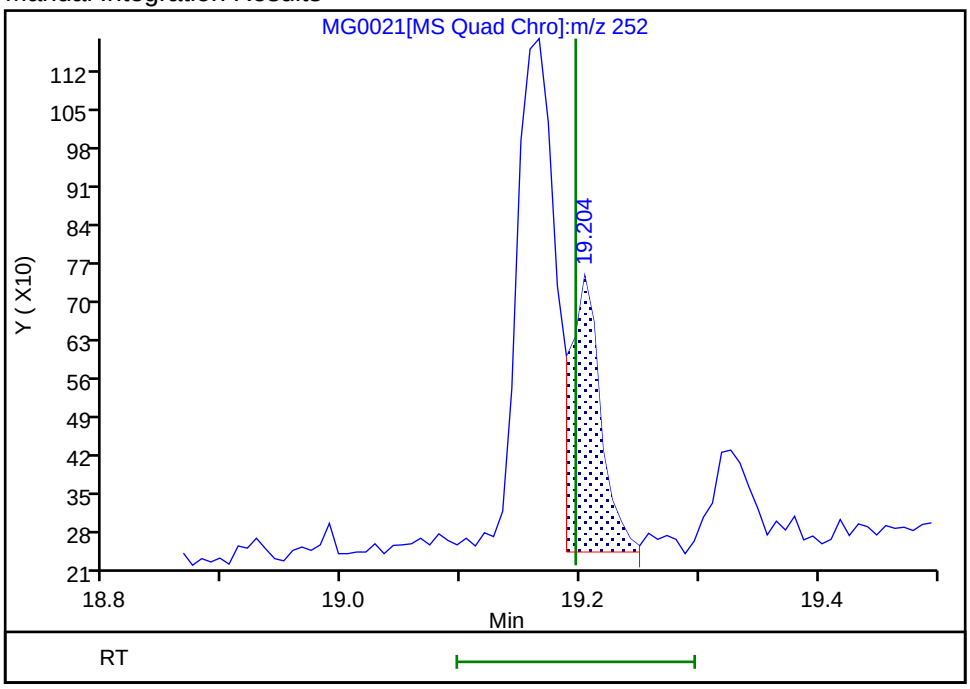
Processing Integration Results

RT: 19.17
Area: 2924
Amount: 0.007466
Amount Units: ug/ml



Manual Integration Results

RT: 19.20
Area: 852
Amount: 0.002175
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:57:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

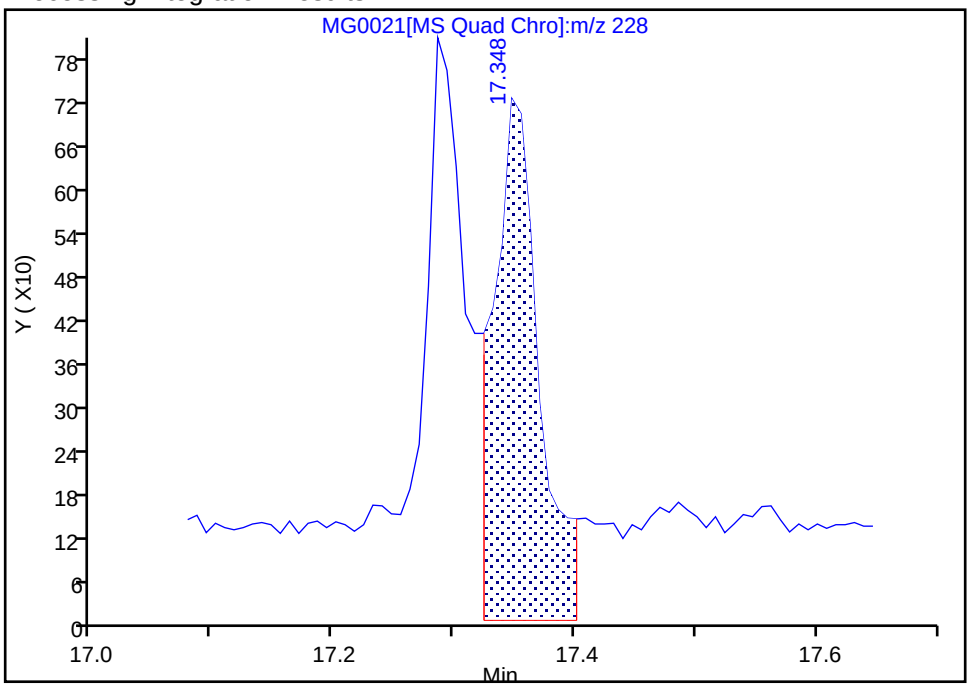
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

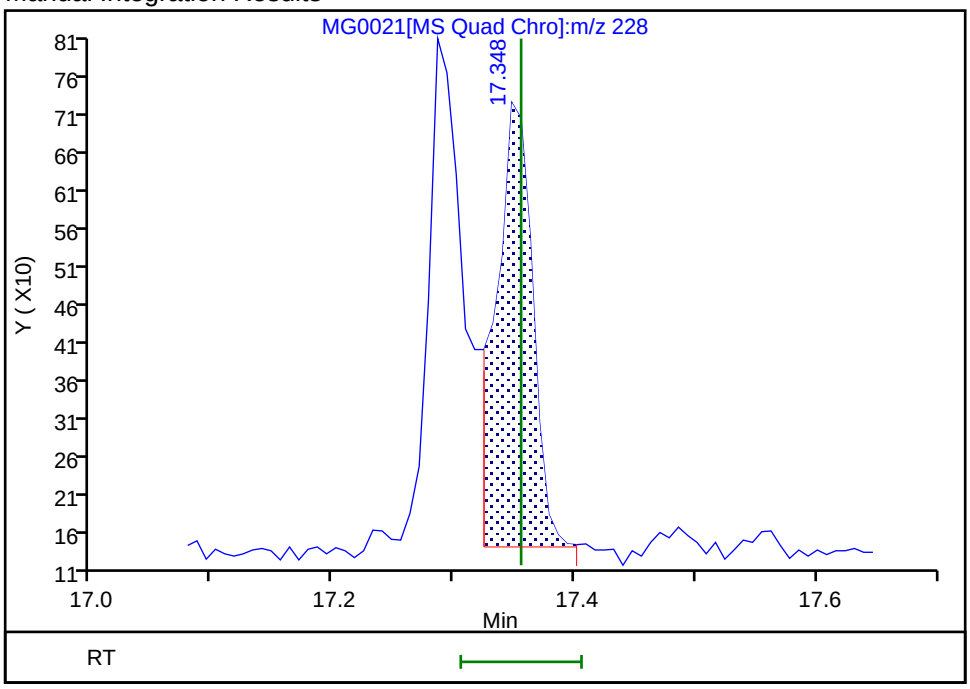
Processing Integration Results

RT: 17.35
Area: 1820
Amount: 0.005347
Amount Units: ug/ml



Manual Integration Results

RT: 17.35
Area: 1189
Amount: 0.003493
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:57:03

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

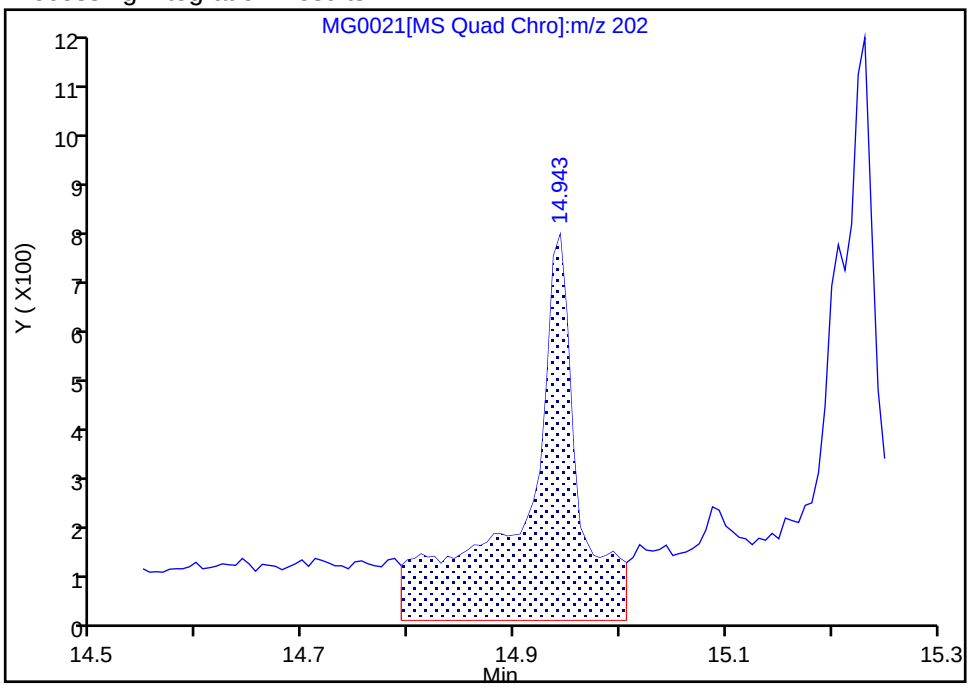
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

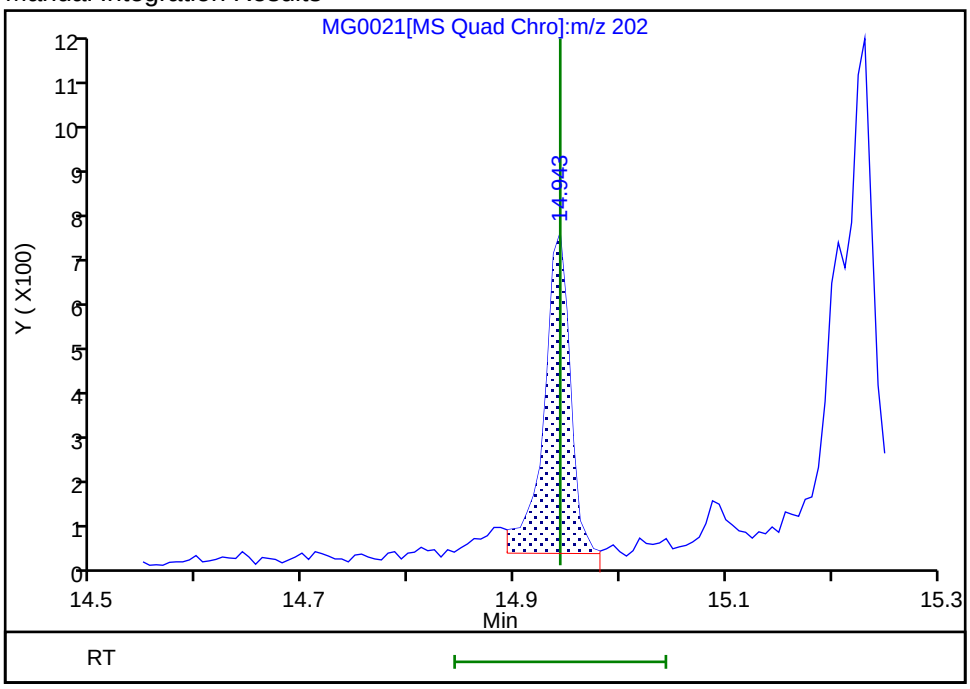
Processing Integration Results

RT: 14.94
Area: 2814
Amount: 0.008693
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 1130
Amount: 0.003491
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:56:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

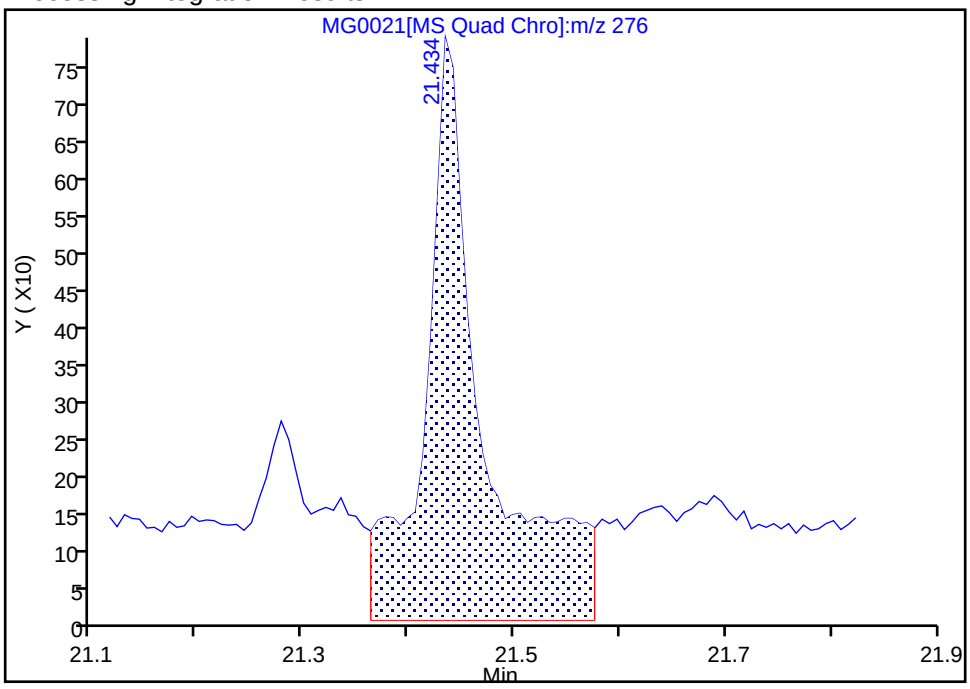
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0021.D				
Injection Date:	02-Jul-2021 03:03:16	Instrument ID:	HP21585		
Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

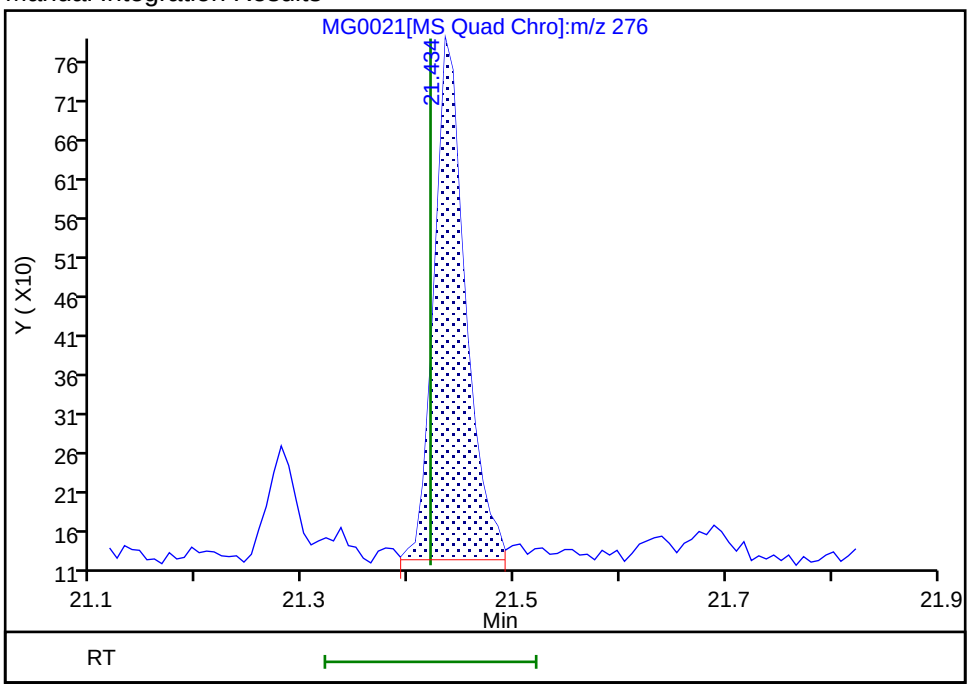
Processing Integration Results

RT: 21.43
Area: 3032
Amount: 0.009254
Amount Units: ug/ml



Manual Integration Results

RT: 21.43
Area: 1369
Amount: 0.004178
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:57:57

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

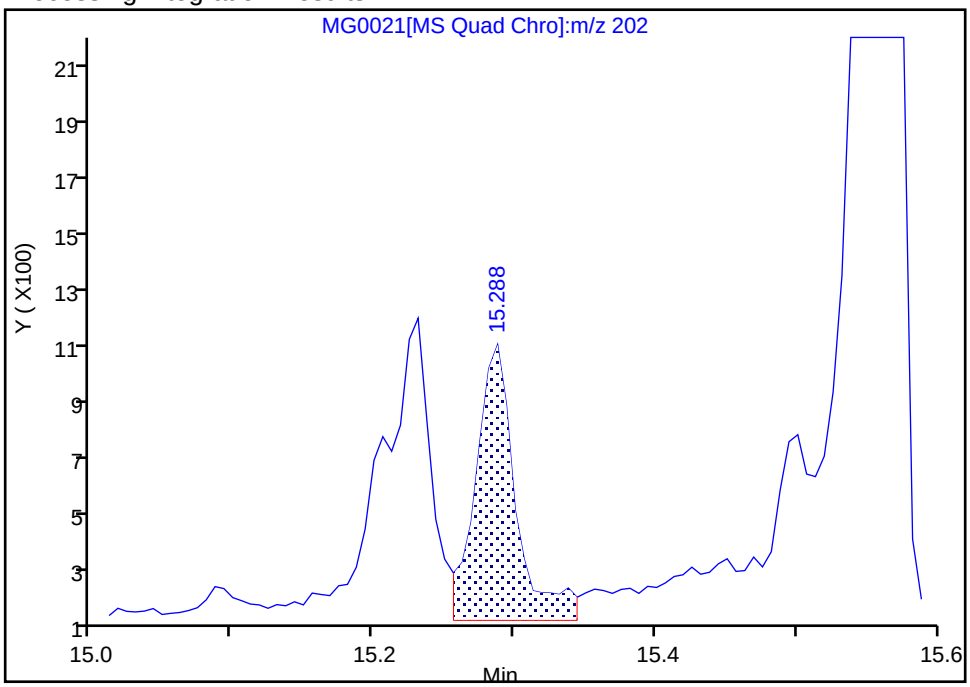
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Lims ID:	410-45105-A-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

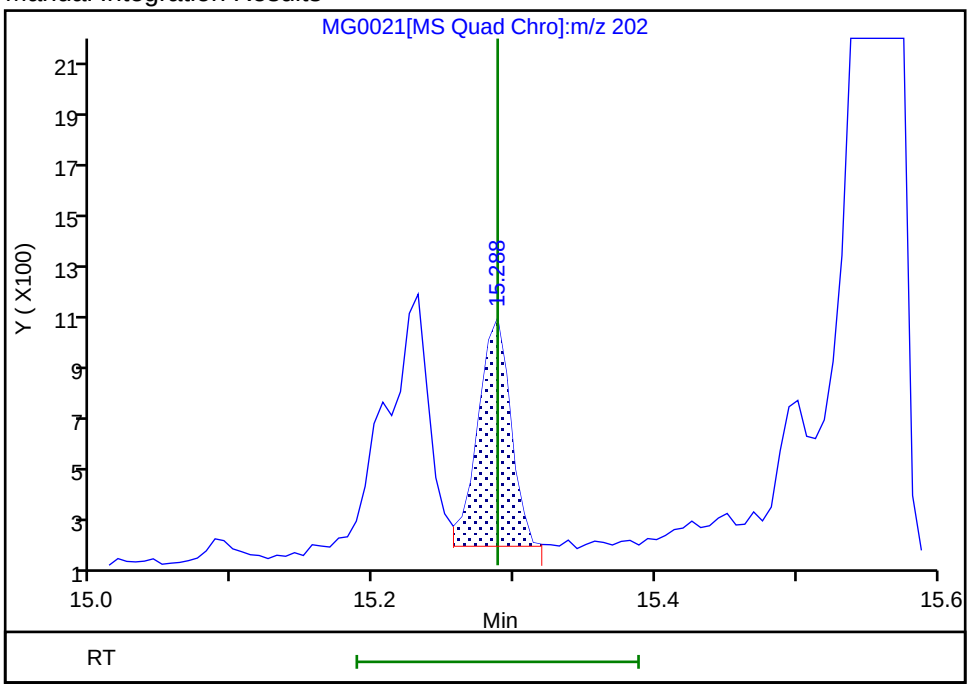
Processing Integration Results

RT: 15.29
Area: 1908
Amount: 0.006190
Amount Units: ug/ml



Manual Integration Results

RT: 15.29
Area: 1418
Amount: 0.004600
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:56:45

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-10S-20210622 RE Lab Sample ID: 410-45105-2 RE

Matrix: Groundwater Lab File ID: MG0121.D

Analysis Method: 8270D SIM Date Collected: 06/22/2021 13:25

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 240.8(mL) Date Analyzed: 07/02/2021 15:03

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*	*H*	*0.052*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.052*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.052*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.026*	*J H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.035*	*J H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.041*	*J H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.034*	*J H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.014*	*J H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*0.029*	*J H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.022*	*J H*	*0.052*	*0.010*
86-73-7	*Fluorene*	*ND*	*H*	*0.052*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.033*	*J H*	*0.052*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.073*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.073*	*0.031*
129-00-0	*Pyrene*	*0.037*	*J H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	70		36-111
93951-69-0	Fluoranthene-d10 (Surr)	80		47-128

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Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D
Lims ID: 410-45105-B-2-A
Client ID: MW-10S-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 15:03:21 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-B-2-A
Misc. Info.: 410-0033483-022
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jul-2021 12:57:31 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1642

First Level Reviewer: transuea Date: 02-Jul-2021 16:18:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	93	10365	0.2500	
* 5 Naphthalene-d8	136	8.584	8.585	-0.001	91	34904	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	15792	0.1740	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	93	23087	0.2500	
* 20 Phenanthrene-d10	188	13.273	13.273	0.000	95	48244	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	96	45402	0.2011	
25 Fluoranthene	202	14.943	14.949	-0.007	97	1453	0.005395	M
26 Pyrene	202	15.288	15.288	0.000	96	2387	0.008940	
28 Benzo[a]anthracene	228	17.286	17.286	-0.008	100	1746	0.006243	M
* 29 Chrysene-d12	240	17.309	17.310	-0.001	59	53925	0.2500	
30 Chrysene	228	17.348	17.348	-0.008	100	2082	0.007061	M
33 Benzo[b]fluoranthene	252	19.158	19.150	0.008	100	3160	0.009851	M
34 Benzo[k]fluoranthene	252	19.204	19.196	0.008	98	1189	0.003418	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	97	48283	0.1833	
37 Benzo[a]pyrene	252	19.679	19.679	-0.001	100	2597	0.008382	M
* 38 Perylene-d12	264	19.771	19.772	-0.001	97	68894	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.434	21.427	0.006	98	2338	0.008034	M
42 Benzo[g,h,i]perylene	276	21.858	21.851	0.006	93	2823	0.008176	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

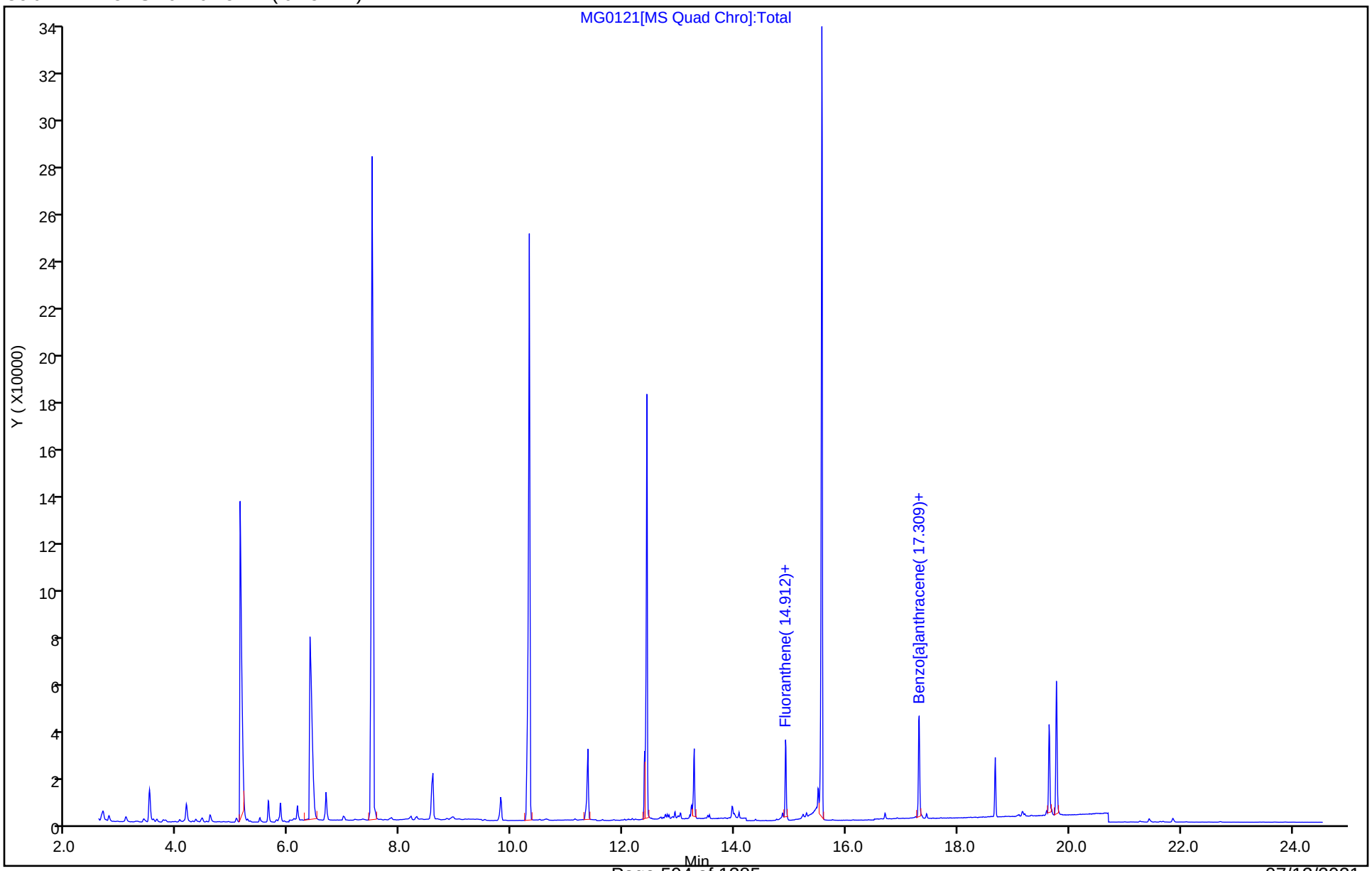
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Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D

Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2	Worklist Smp#:	22
Client ID:	MW-10S-20210622				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



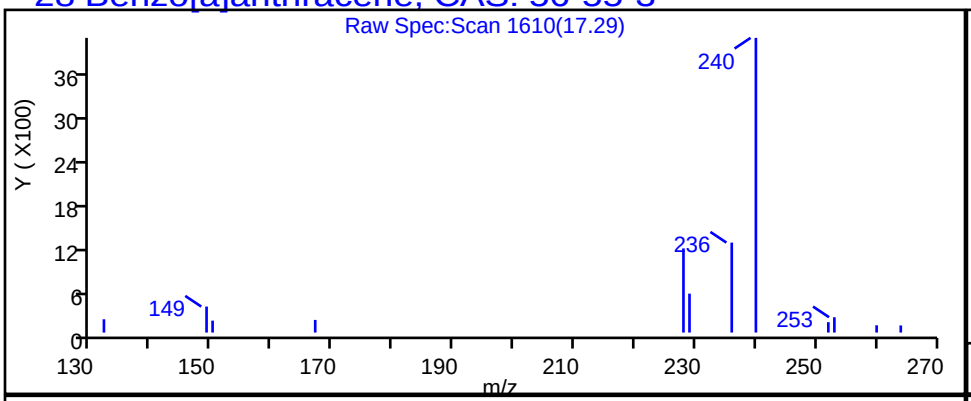
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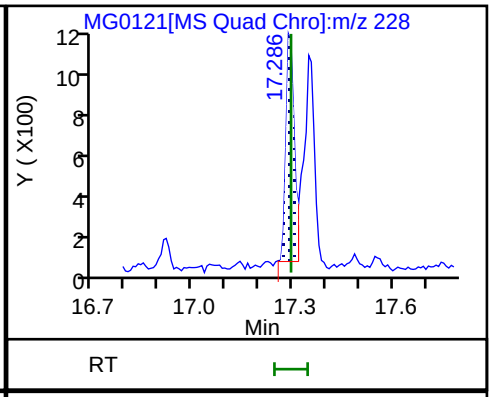
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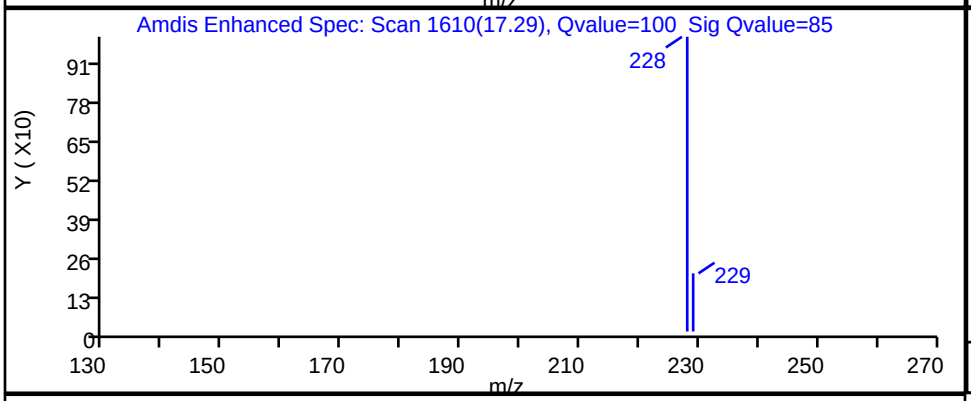
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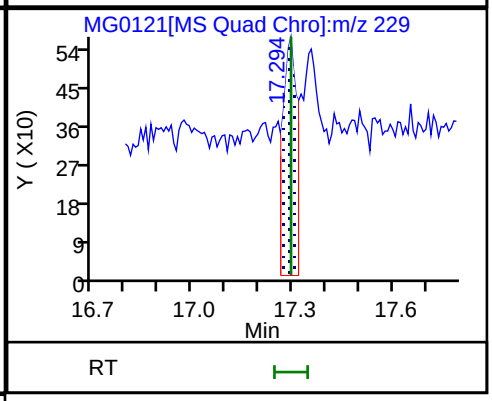
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Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

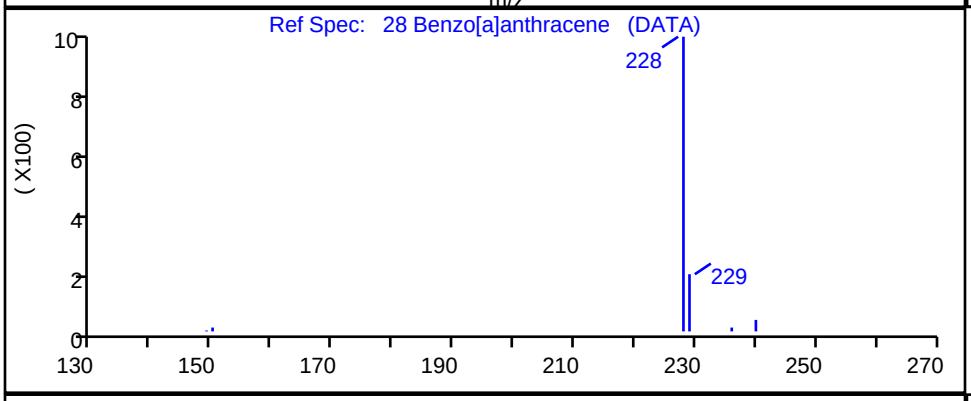
28 Benzo[a]anthracene, CAS: 56-55-3

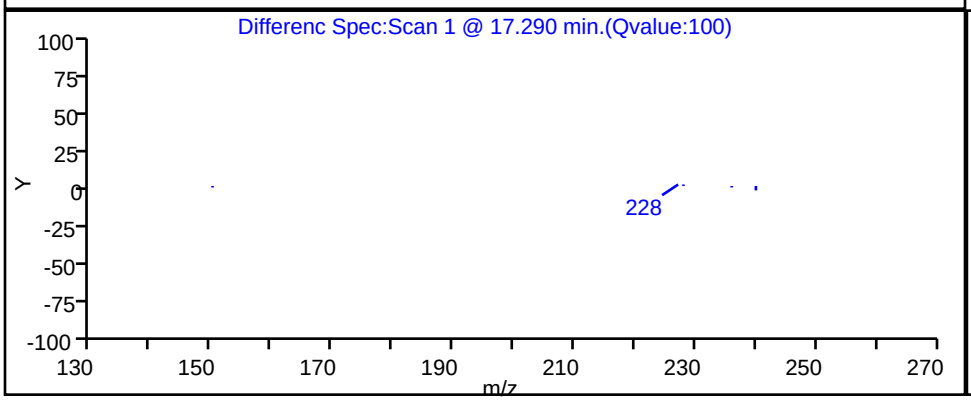


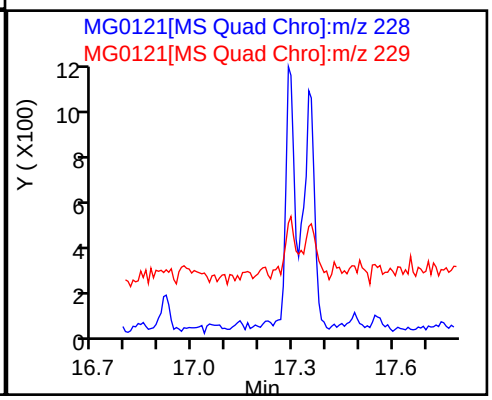










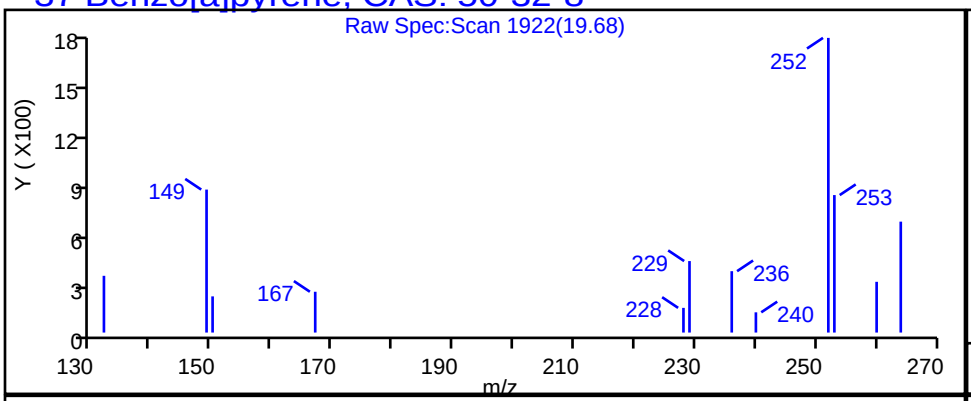


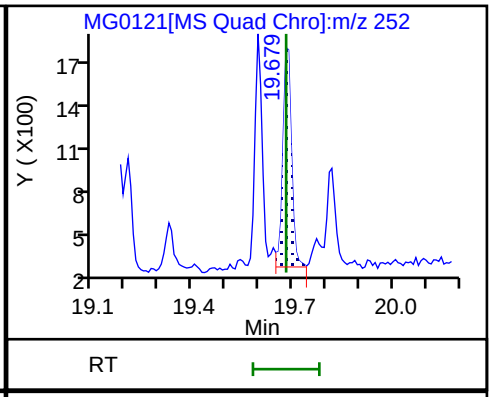
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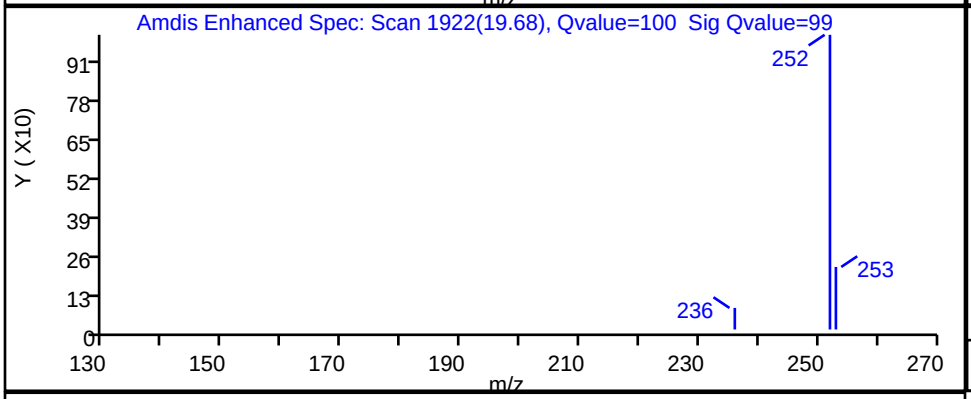
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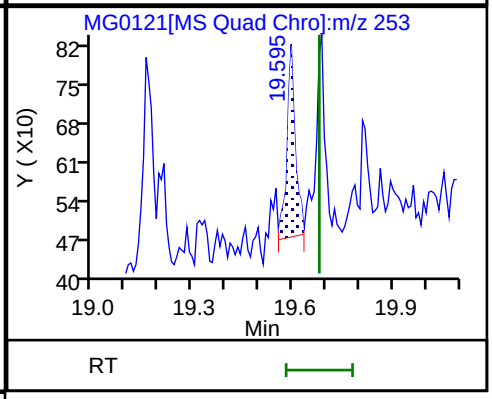
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Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

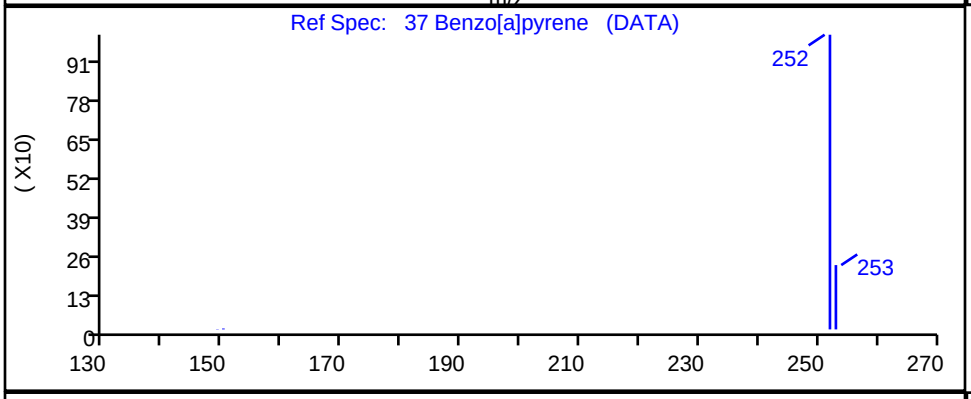
37 Benzo[a]pyrene, CAS: 50-32-8

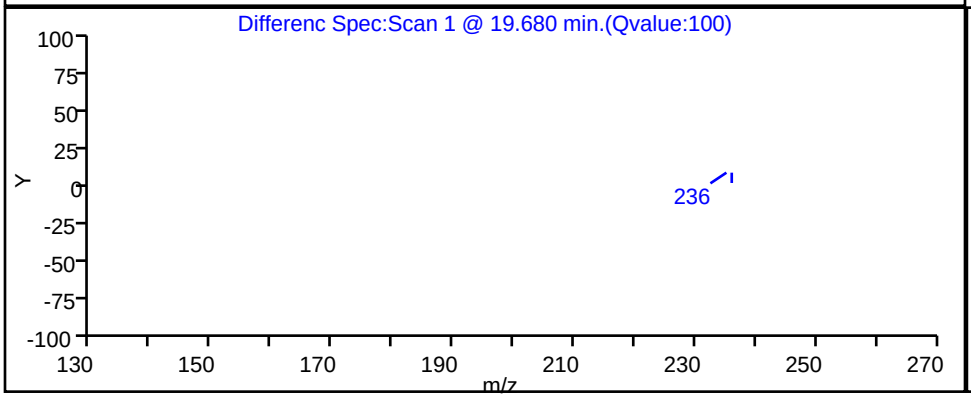


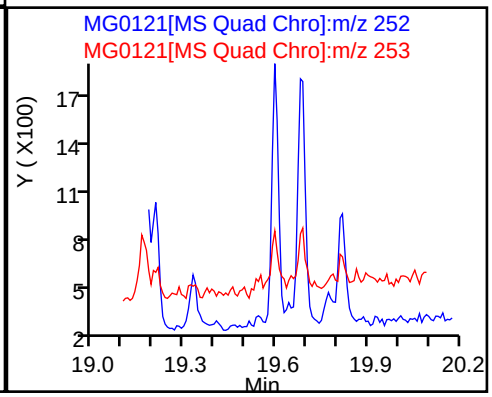








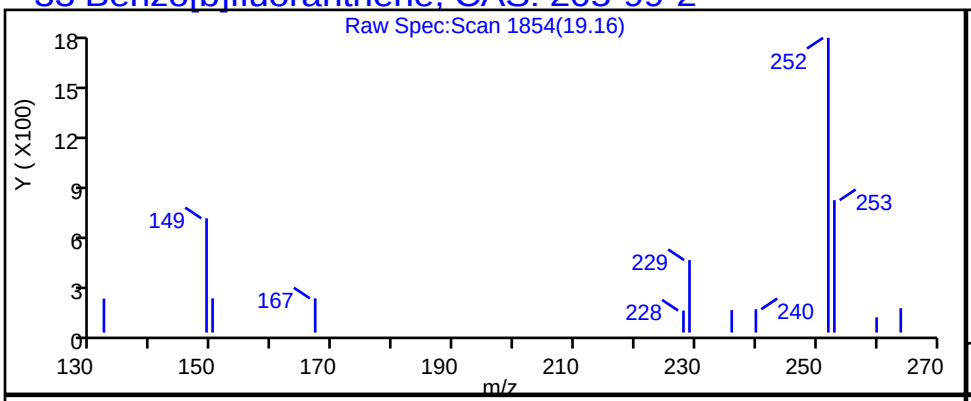


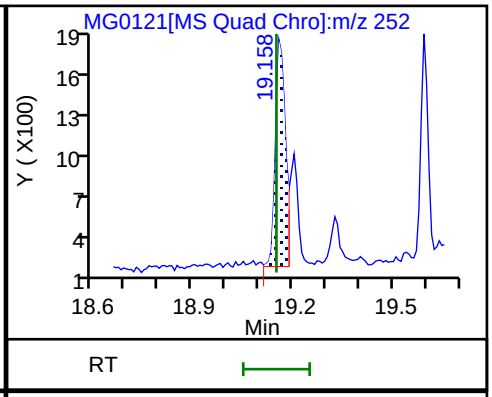


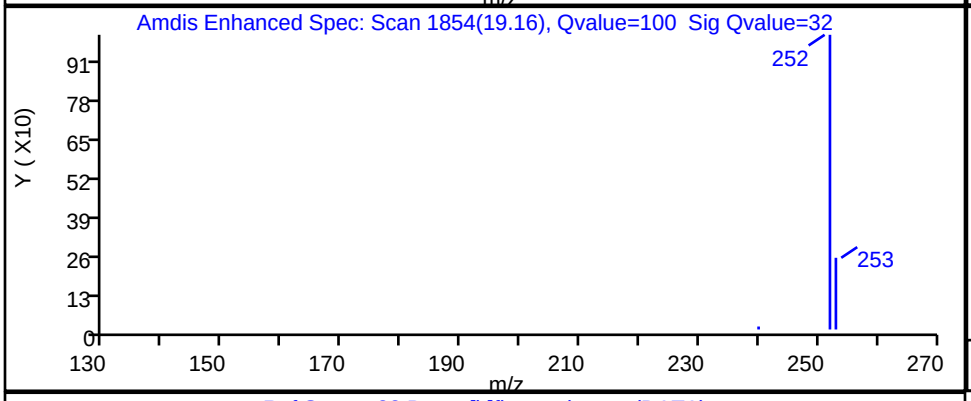
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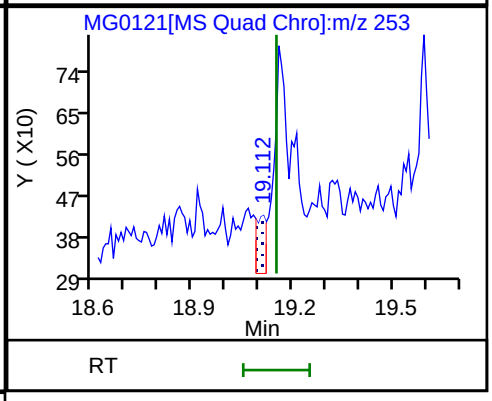
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Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

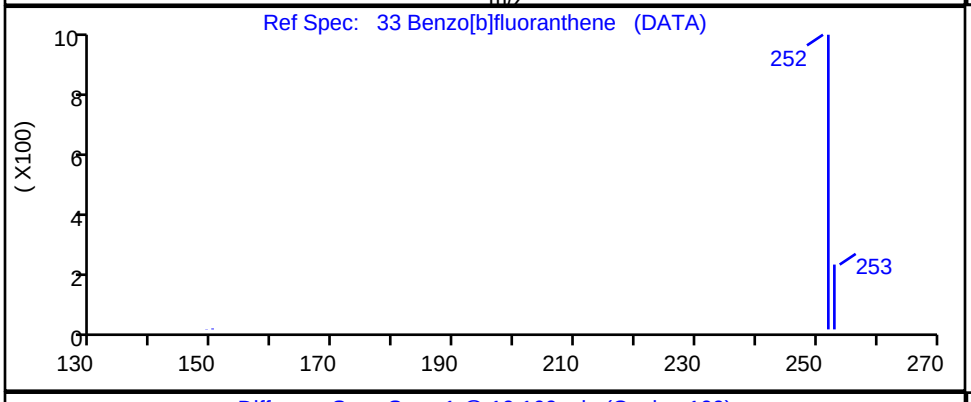
33 Benzo[b]fluoranthene, CAS: 205-99-2

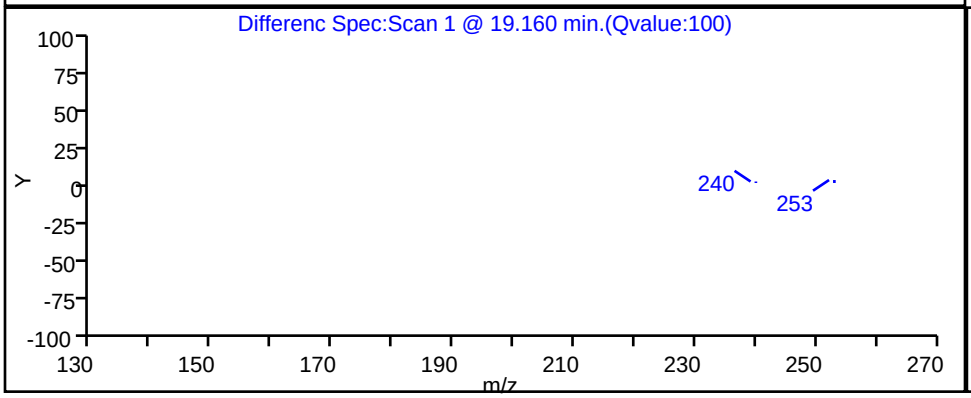


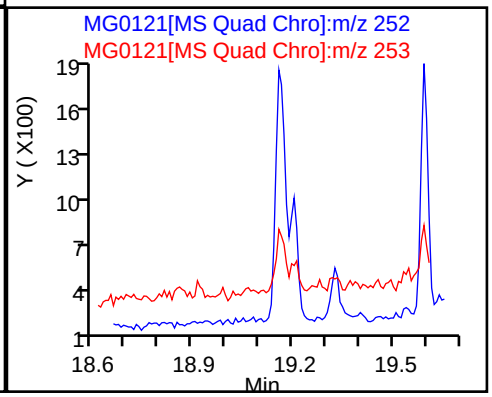








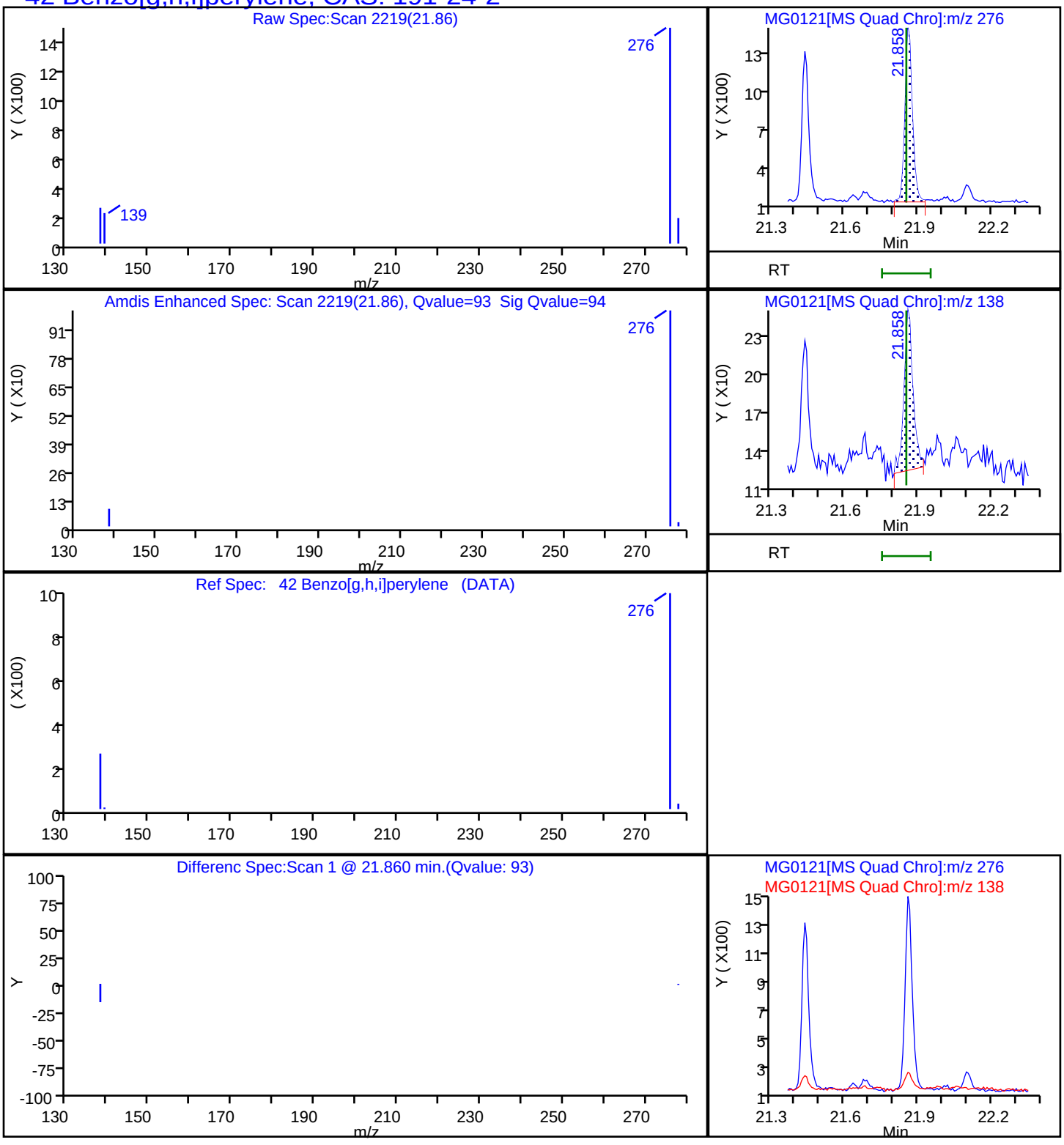




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Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

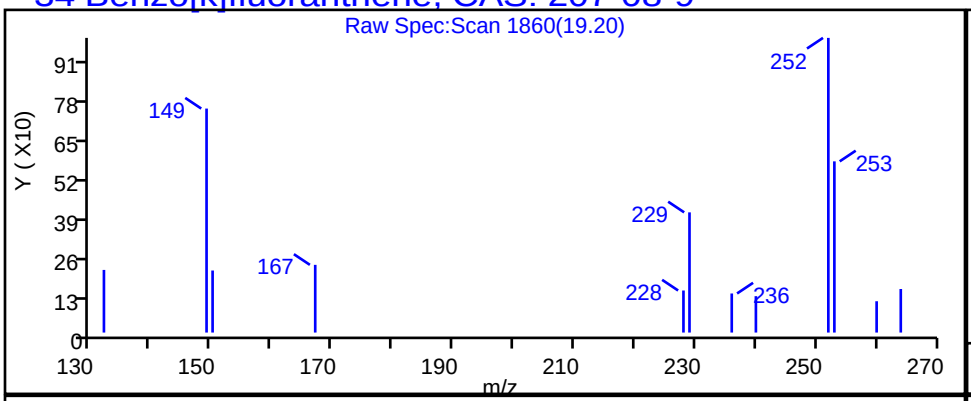


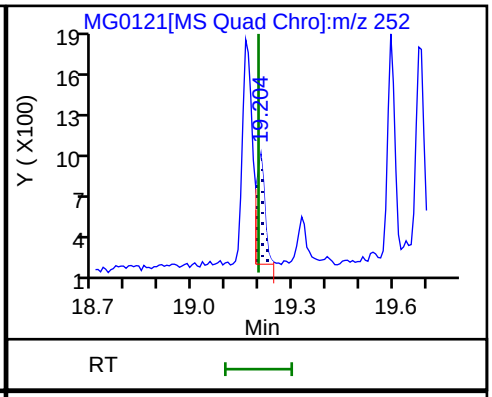
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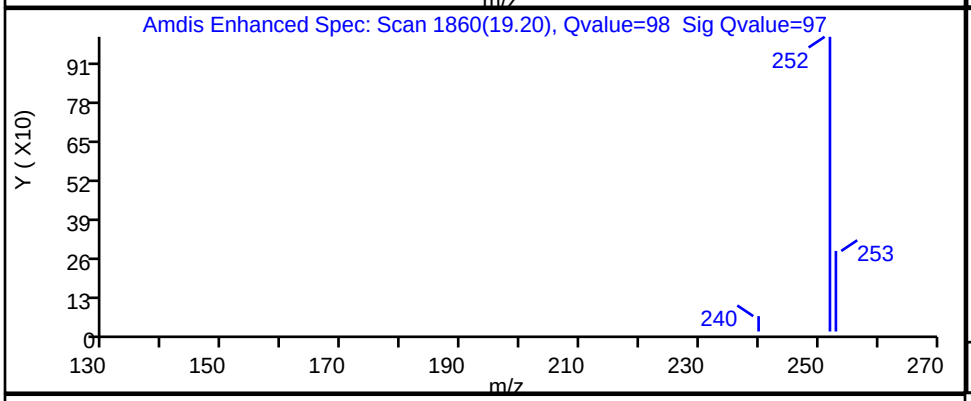
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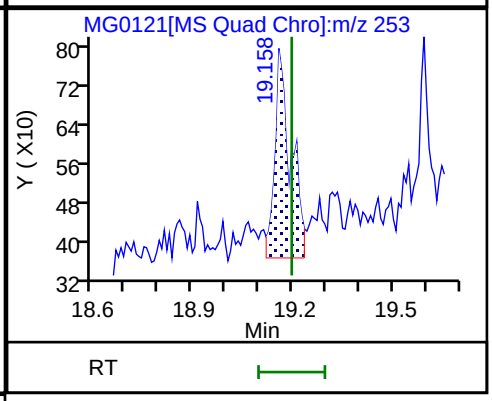
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Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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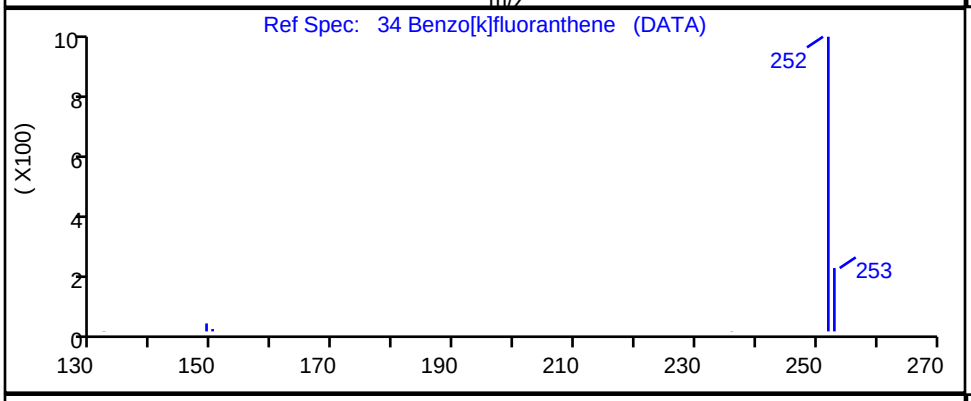
34 Benzo[k]fluoranthene, CAS: 207-08-9

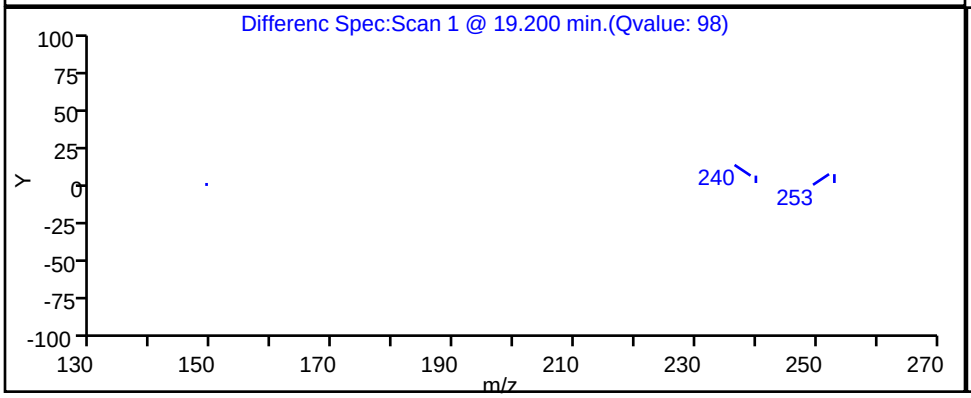


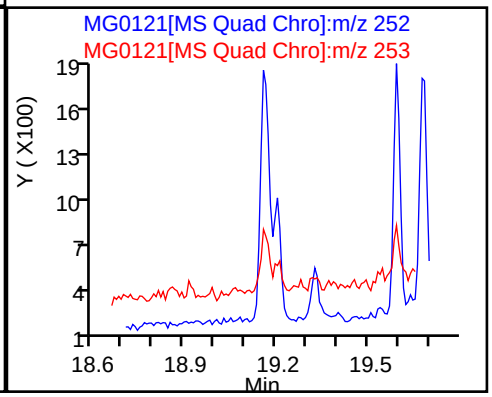












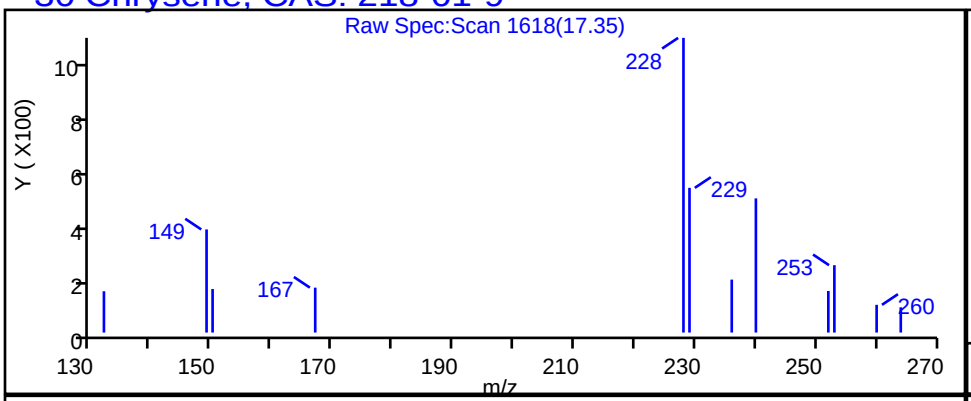
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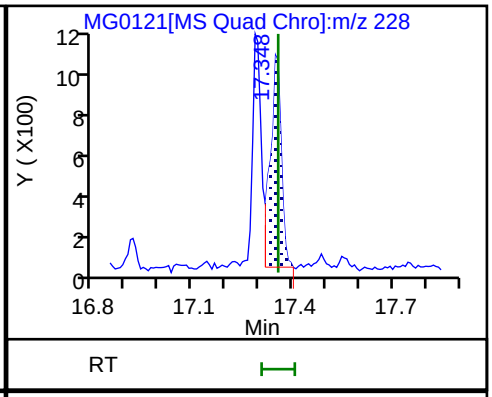
Eurofins Lancaster Laboratories Env, LLC

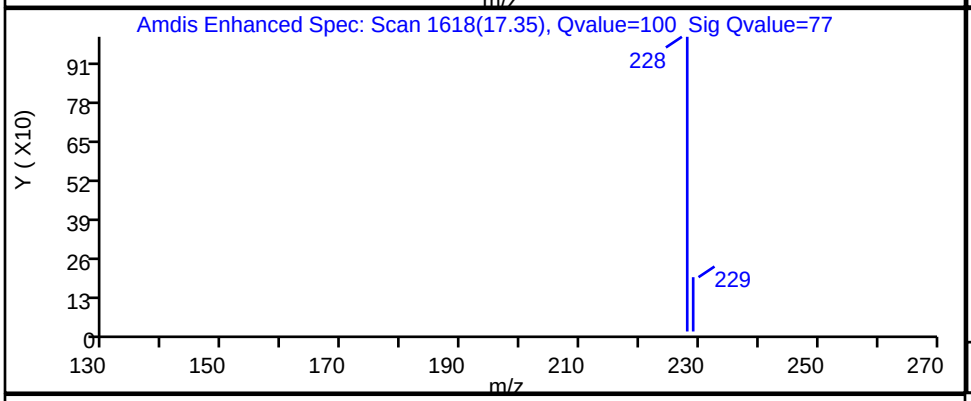
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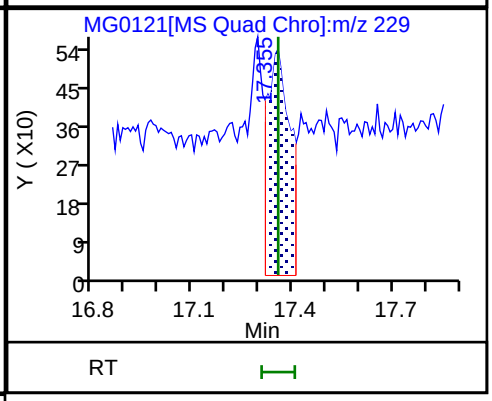
Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

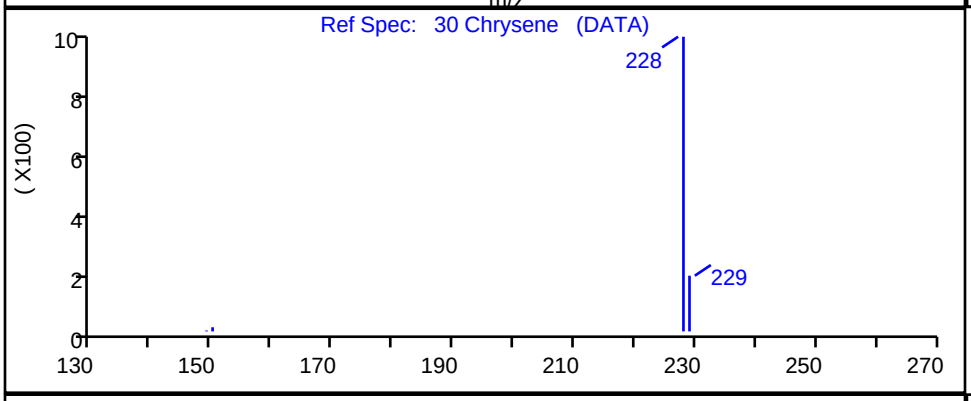
30 Chrysene, CAS: 218-01-9

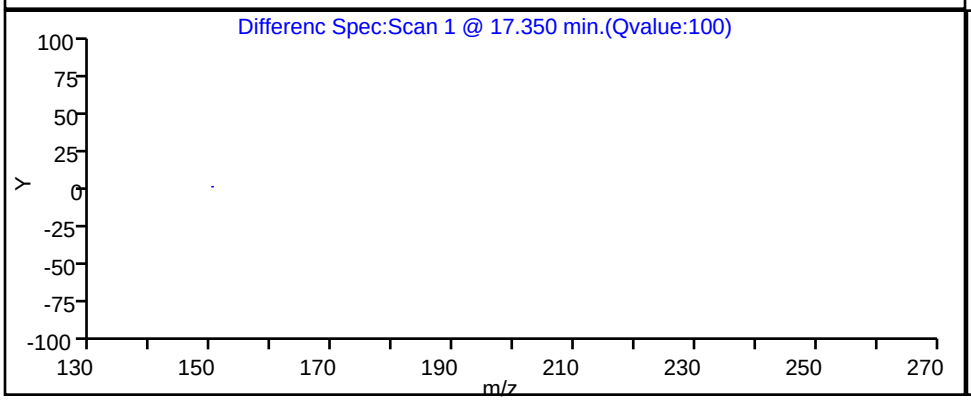


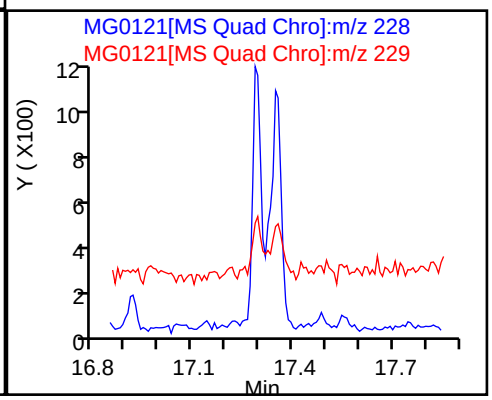












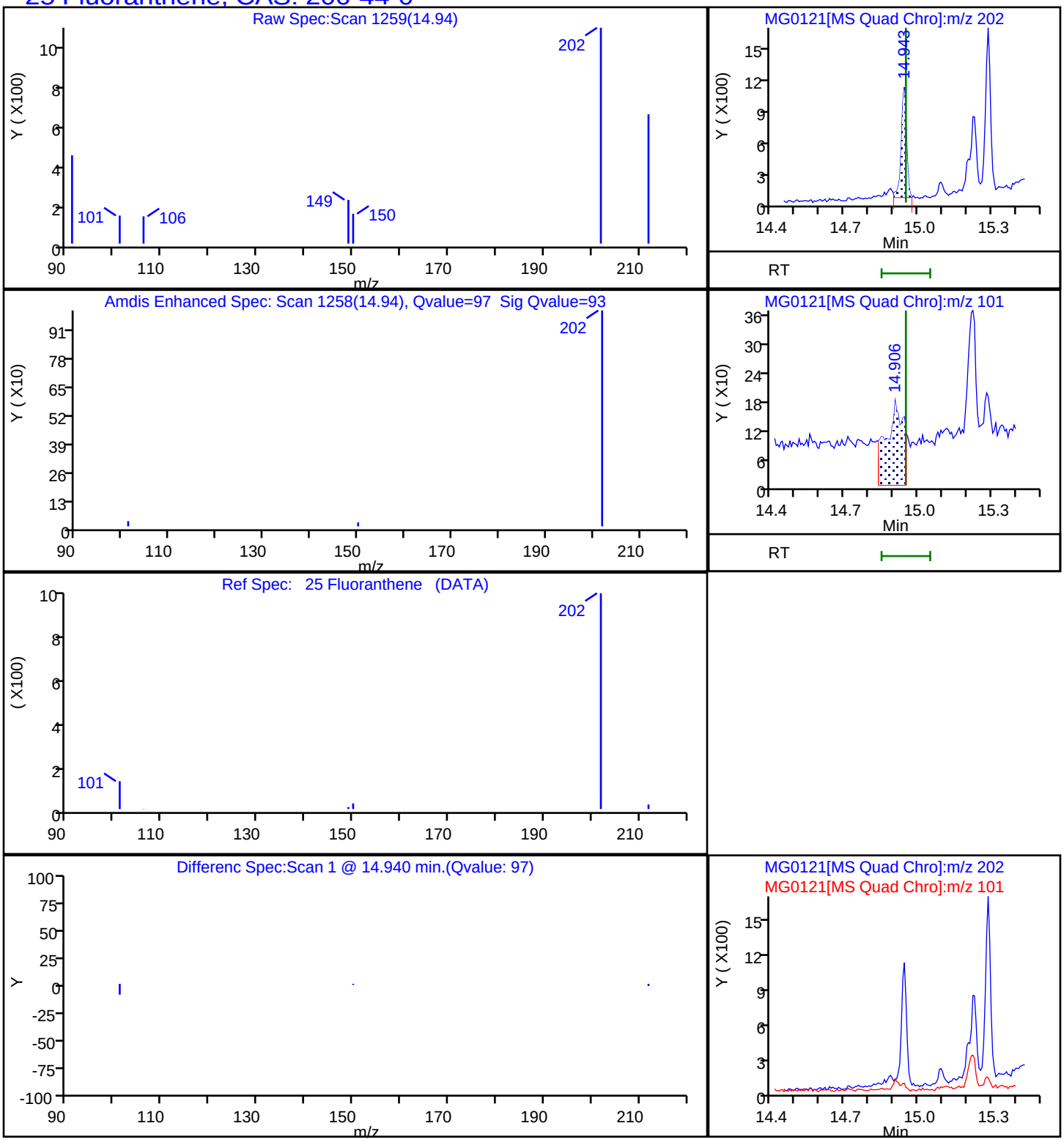
Report Date: 05-Jul-2021 12:57:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D

Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

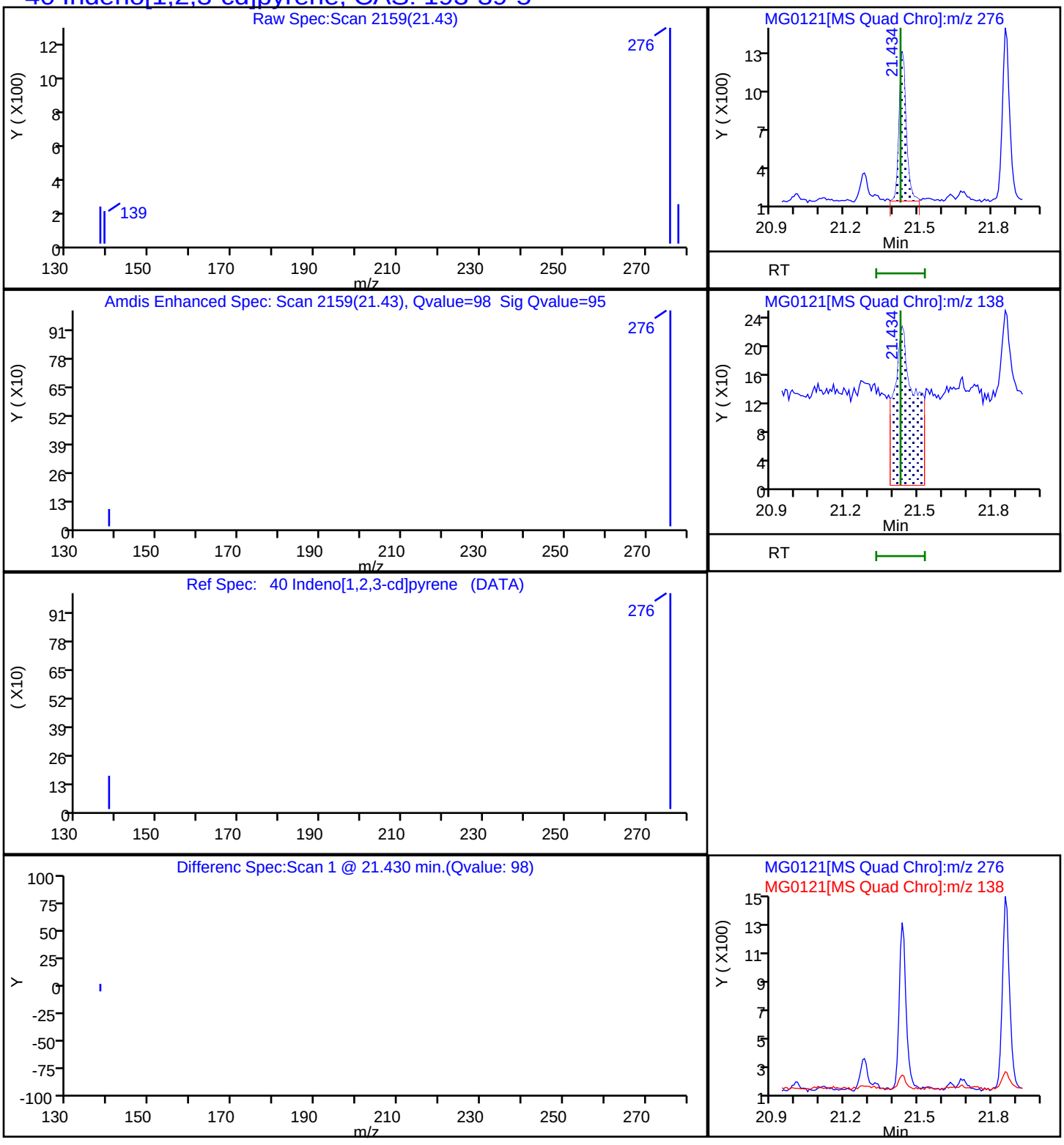
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D		
Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2
Client ID:	MW-10S-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



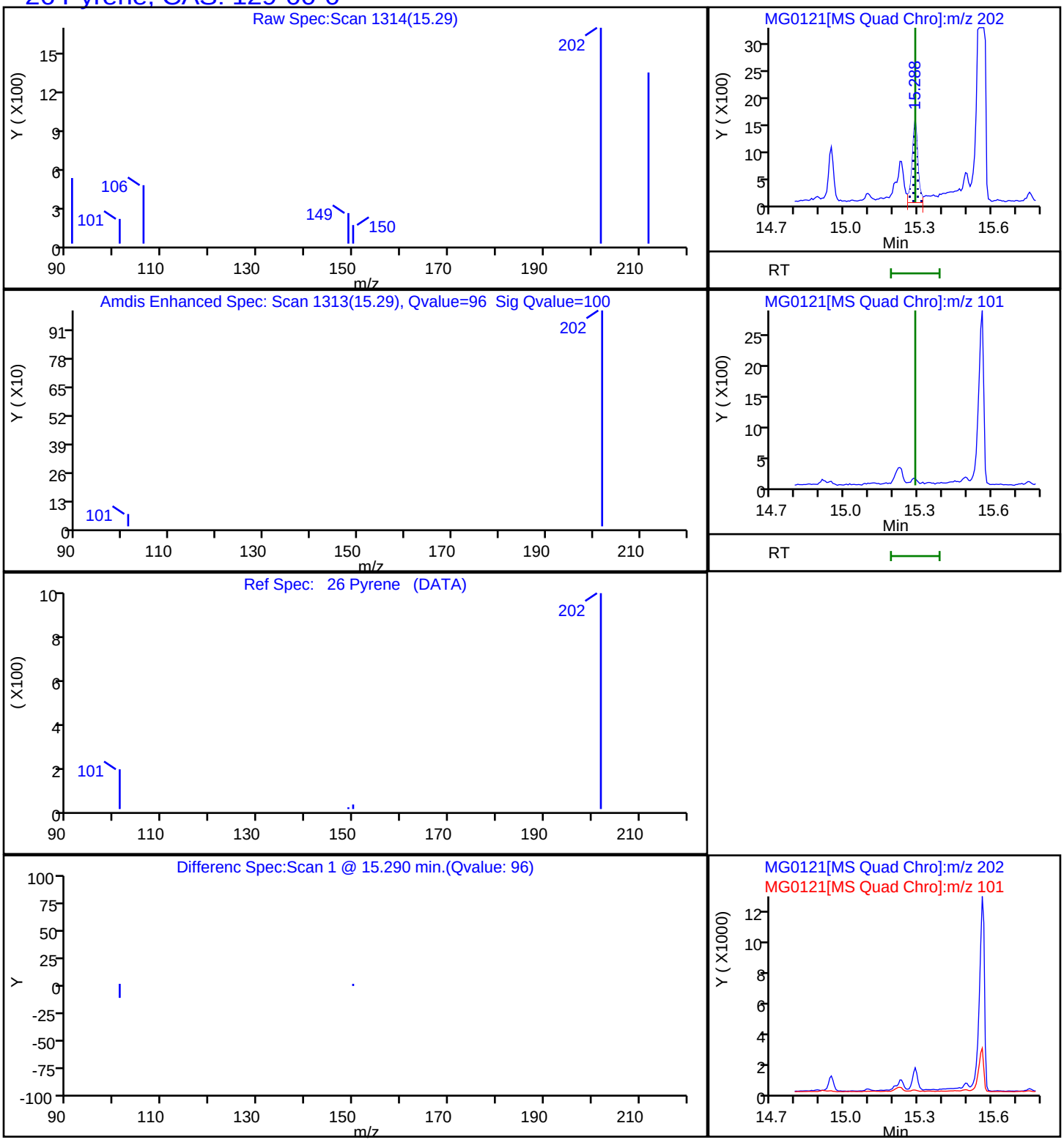
Report Date: 05-Jul-2021 12:57:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D

Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

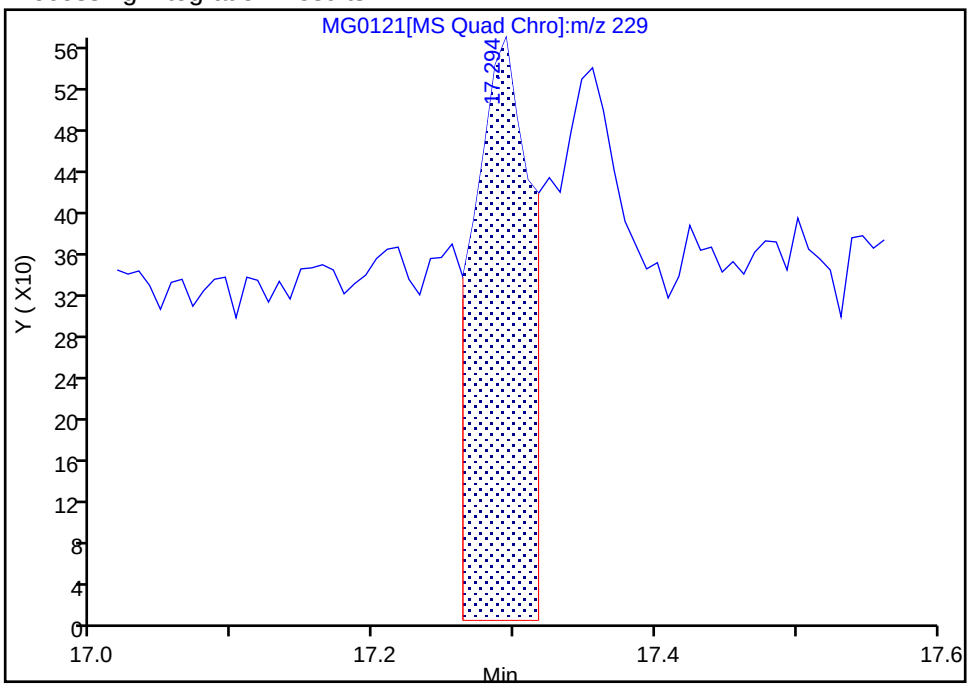
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Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 2

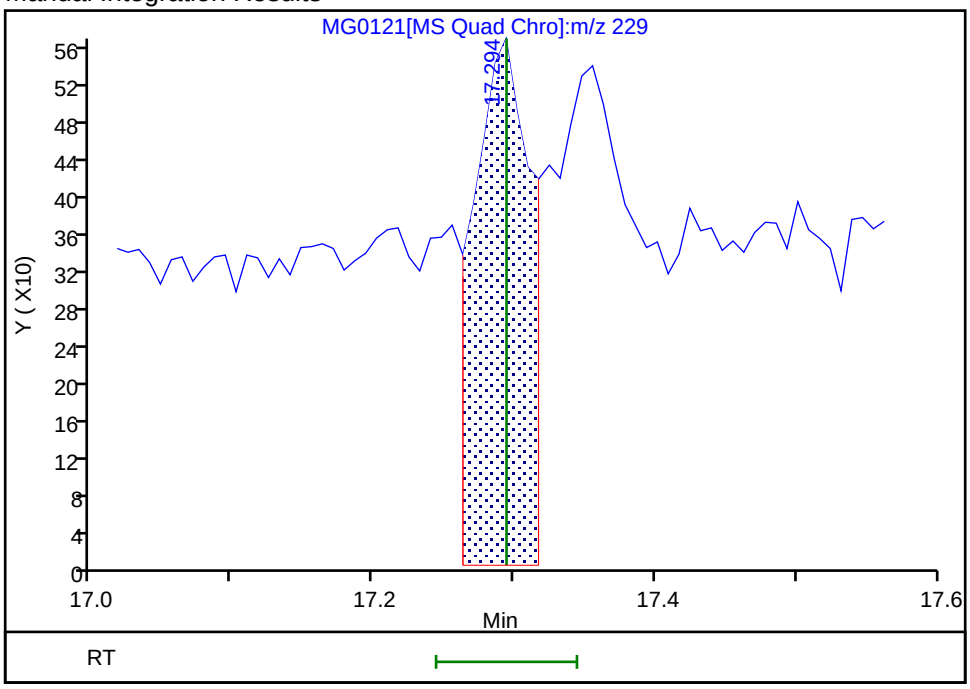
Processing Integration Results

RT: 17.29
Area: 1482
Amount: 0.008631
Amount Units: ug/ml



Manual Integration Results

RT: 17.29
Area: 1482
Amount: 0.006243
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:17:26

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

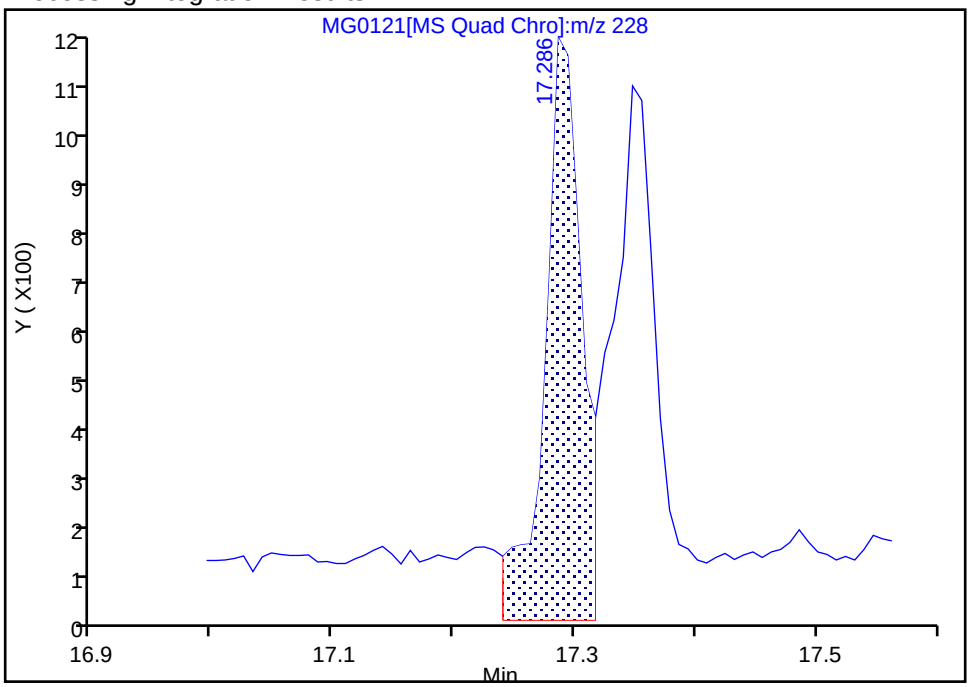
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Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

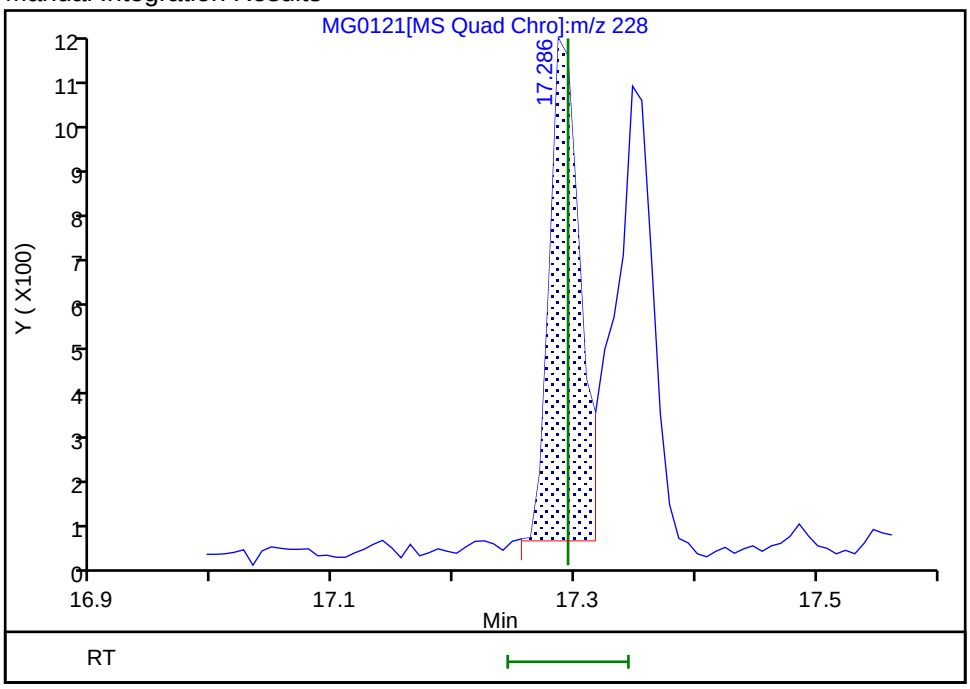
Processing Integration Results

RT: 17.29
Area: 2414
Amount: 0.008631
Amount Units: ug/ml



Manual Integration Results

RT: 17.29
Area: 1746
Amount: 0.006243
Amount Units: ug/ml



Reviewer: phakdeer, 05-Jul-2021 12:57:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

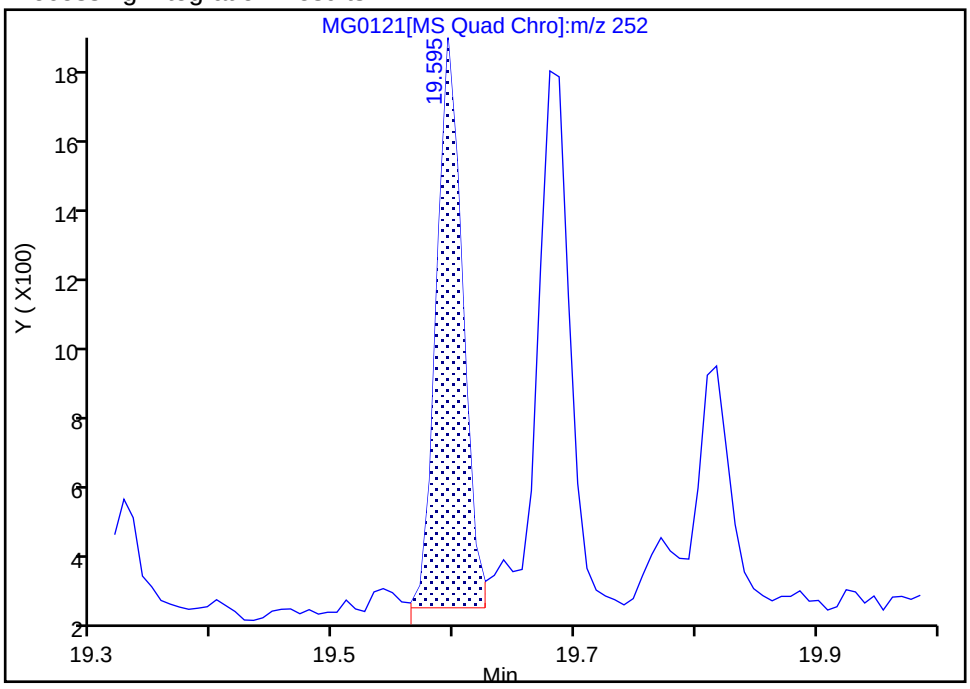
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Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

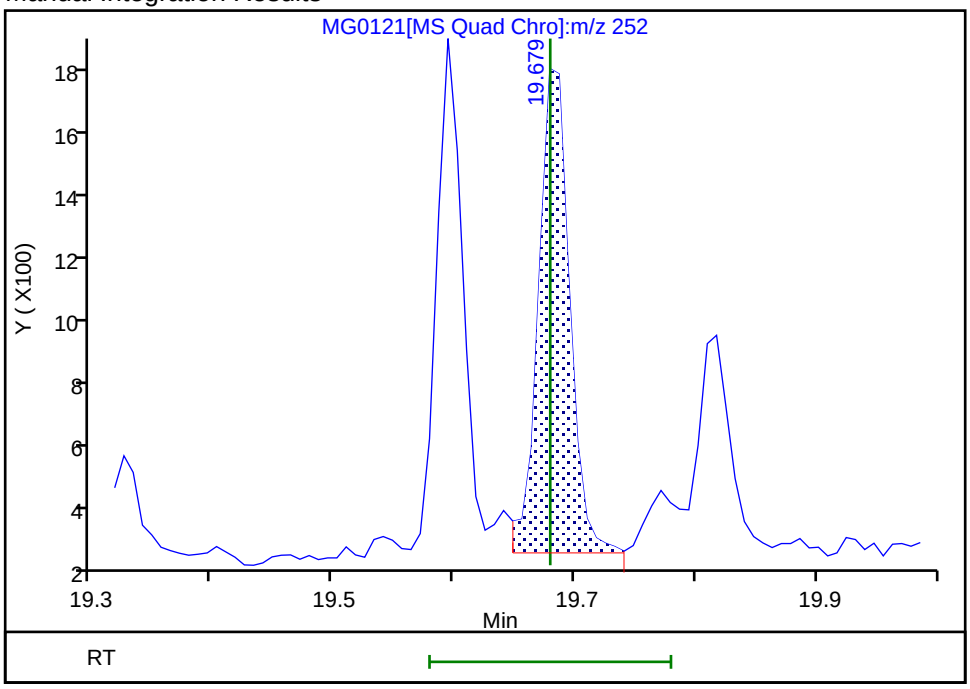
Processing Integration Results

RT: 19.59
Area: 2305
Amount: 0.007439
Amount Units: ug/ml



Manual Integration Results

RT: 19.68
Area: 2597
Amount: 0.008382
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:17:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

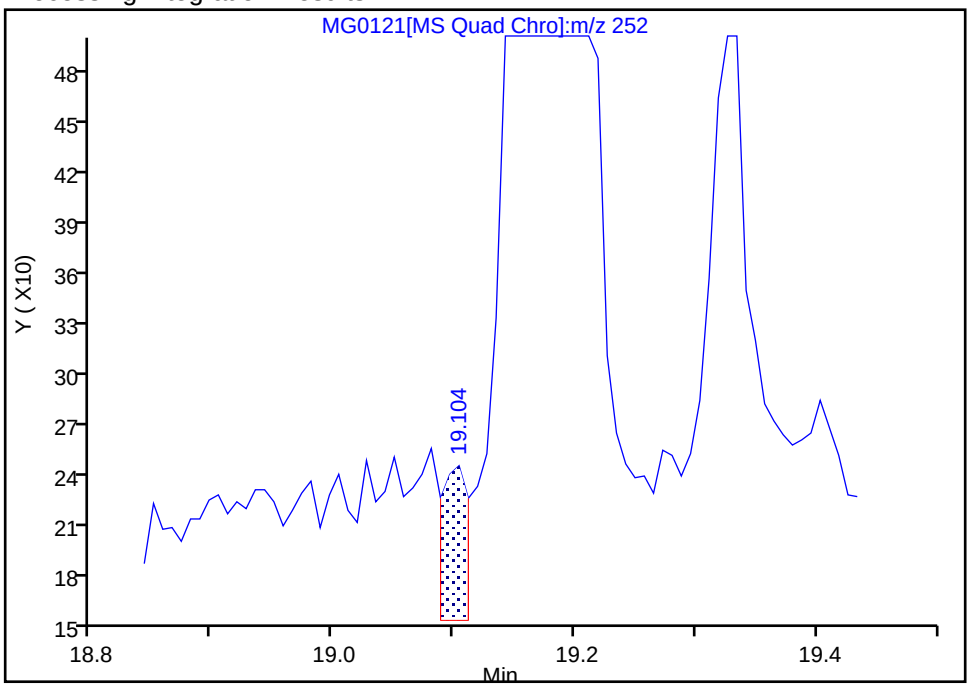
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Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

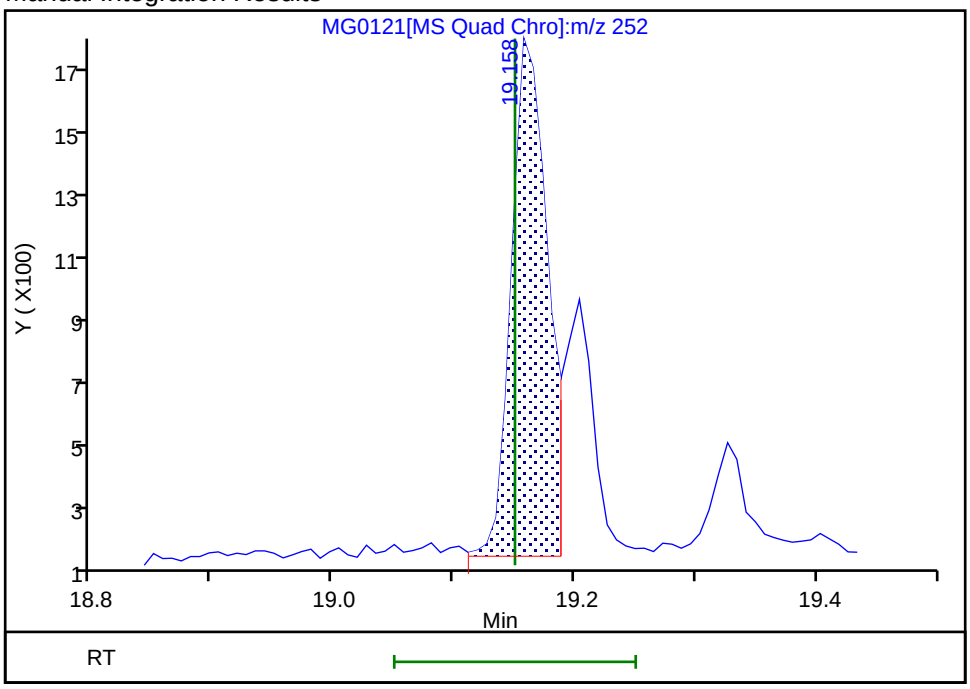
Processing Integration Results

RT: 19.10
Area: 113
Amount: 0.000352
Amount Units: ug/ml



Manual Integration Results

RT: 19.16
Area: 3160
Amount: 0.009851
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:17:39

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

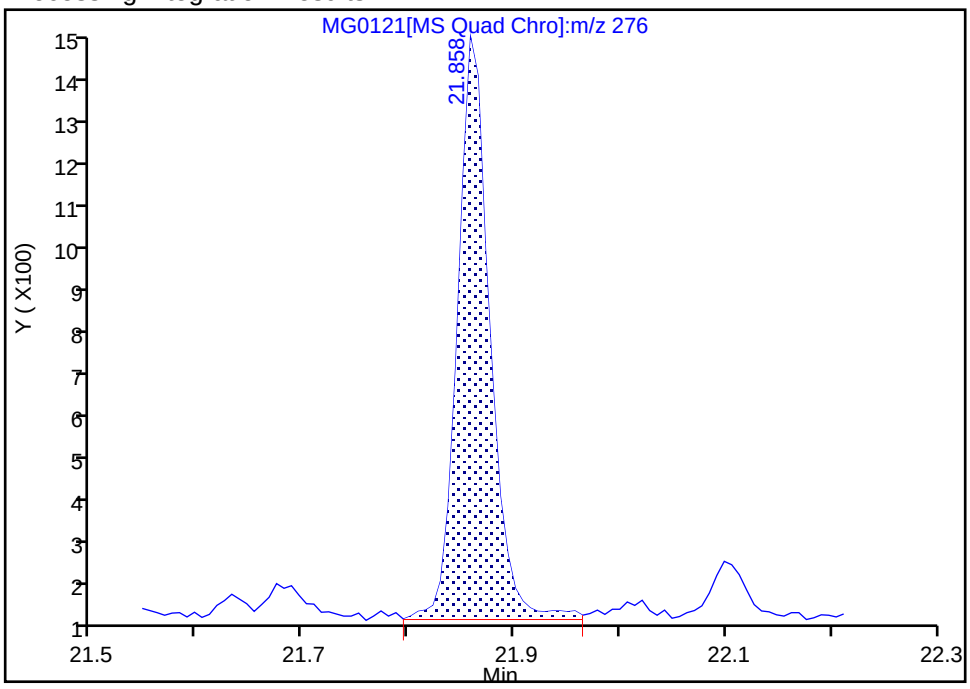
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Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

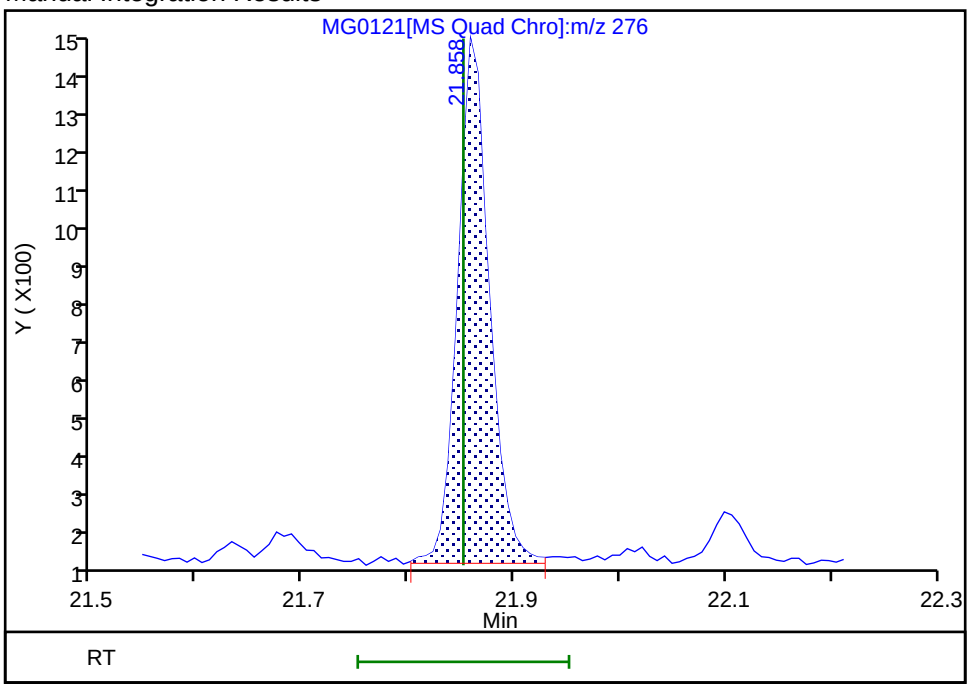
Processing Integration Results

RT: 21.86
Area: 2887
Amount: 0.008361
Amount Units: ug/ml



Manual Integration Results

RT: 21.86
Area: 2823
Amount: 0.008176
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:18:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

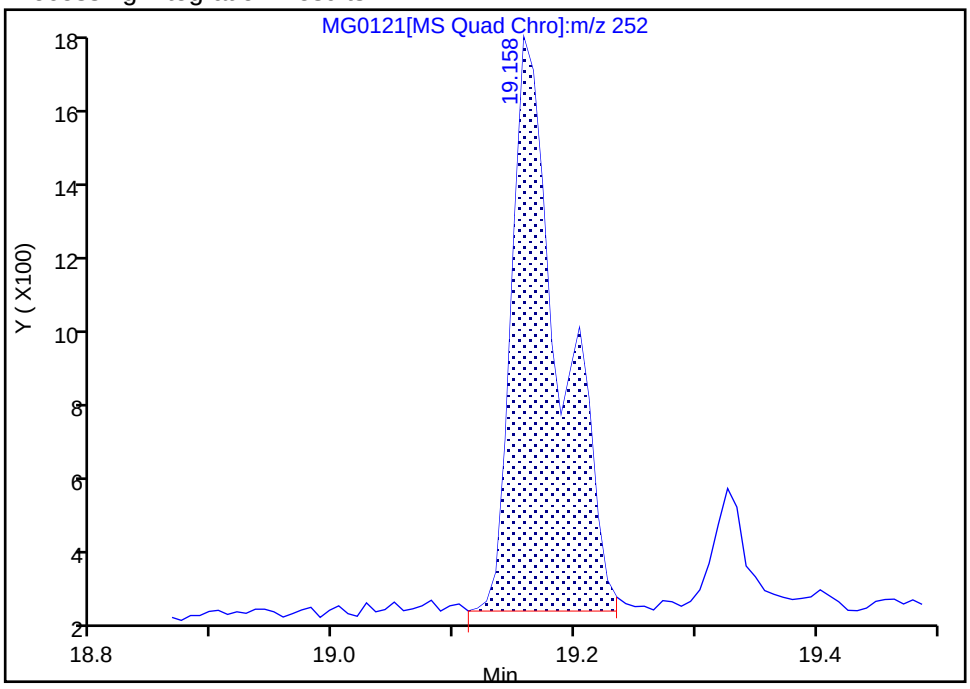
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D				
Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

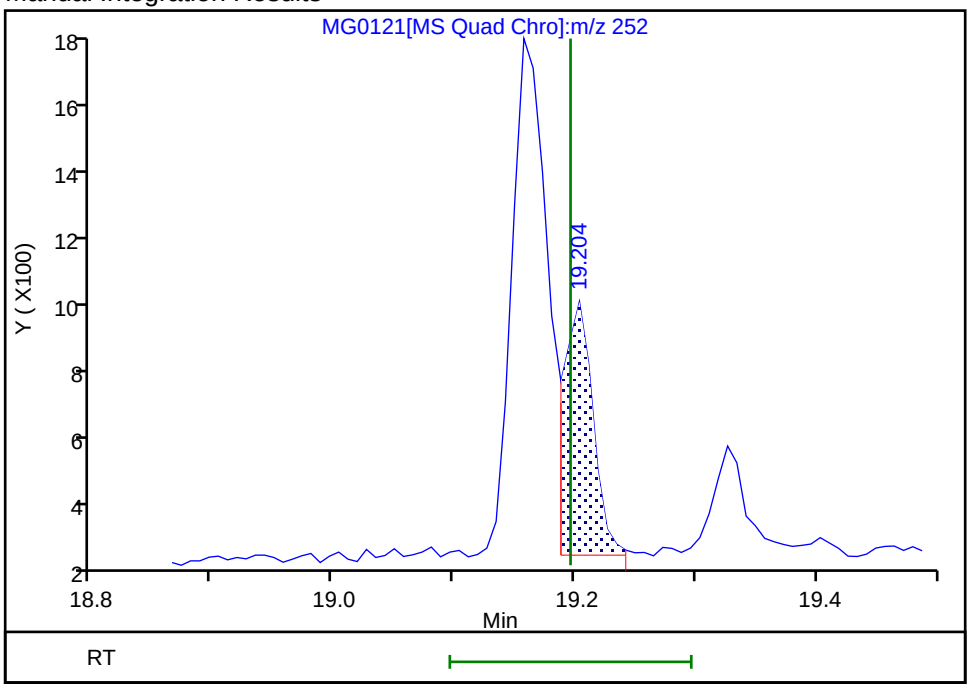
Processing Integration Results

RT: 19.16
Area: 4302
Amount: 0.012368
Amount Units: ug/ml



Manual Integration Results

RT: 19.20
Area: 1189
Amount: 0.003418
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:17:44

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

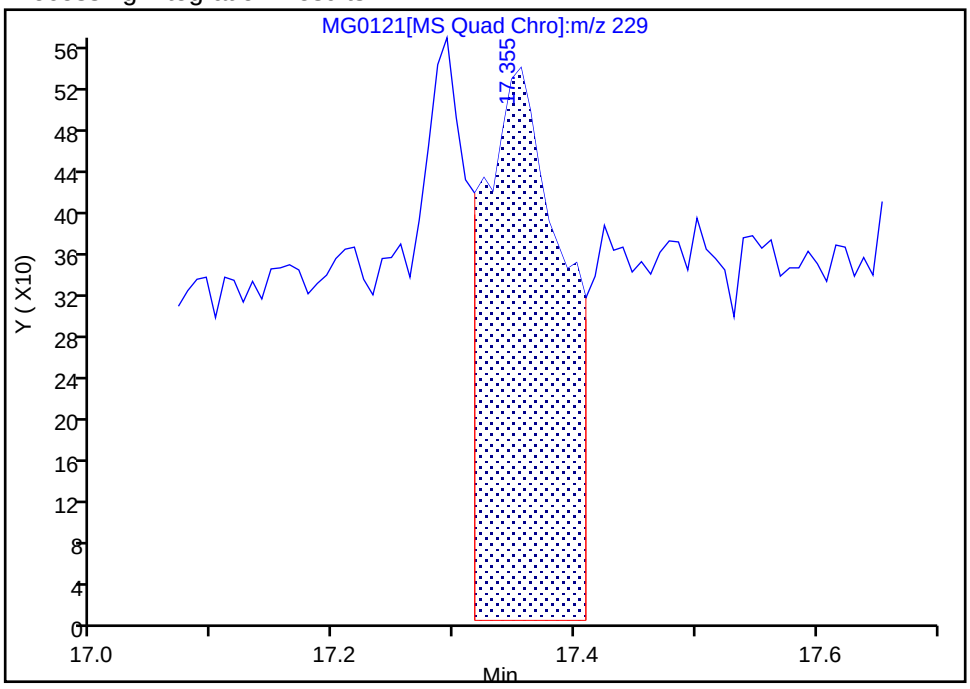
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0121.D				
Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 2

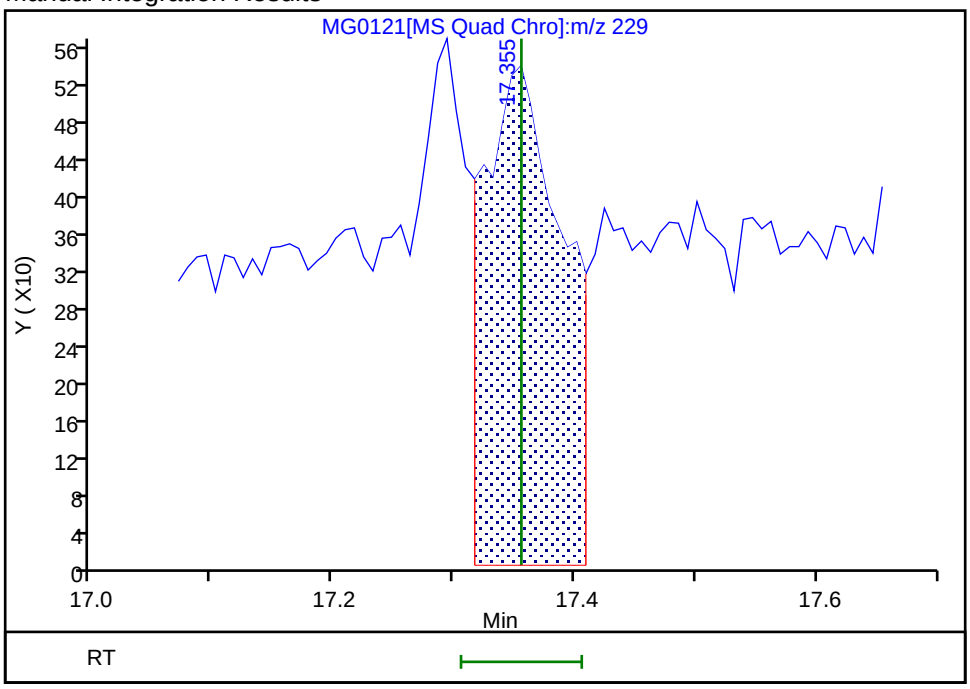
Processing Integration Results

RT: 17.36
Area: 2339
Amount: 0.009320
Amount Units: ug/ml



Manual Integration Results

RT: 17.36
Area: 2339
Amount: 0.007061
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:17:29

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

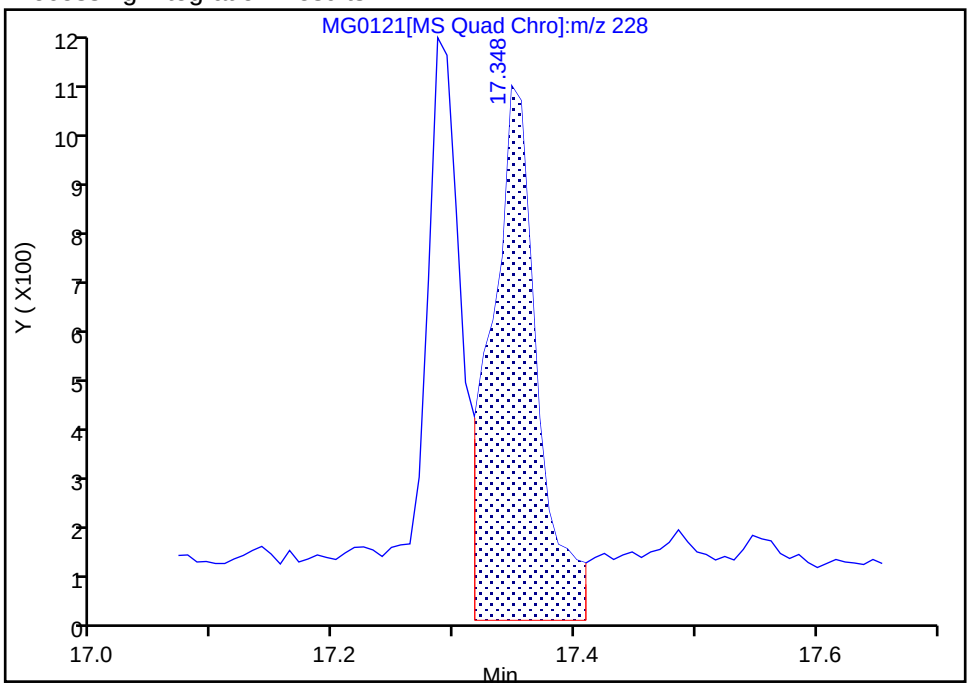
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Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

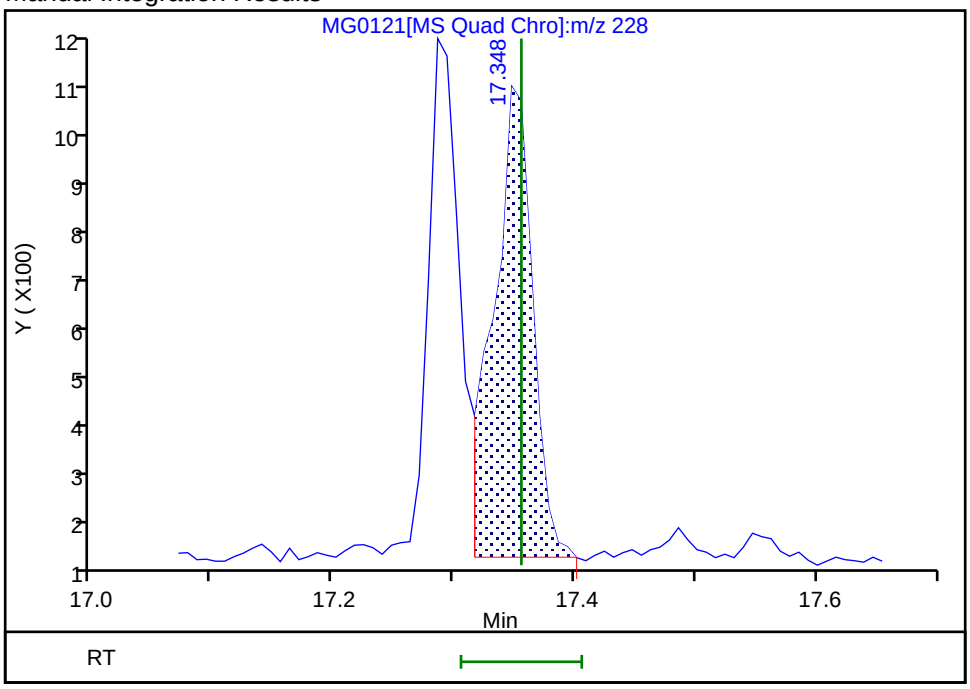
Processing Integration Results

RT: 17.35
Area: 2748
Amount: 0.009320
Amount Units: ug/ml



Manual Integration Results

RT: 17.35
Area: 2082
Amount: 0.007061
Amount Units: ug/ml



Reviewer: phakdeer, 05-Jul-2021 12:57:11
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

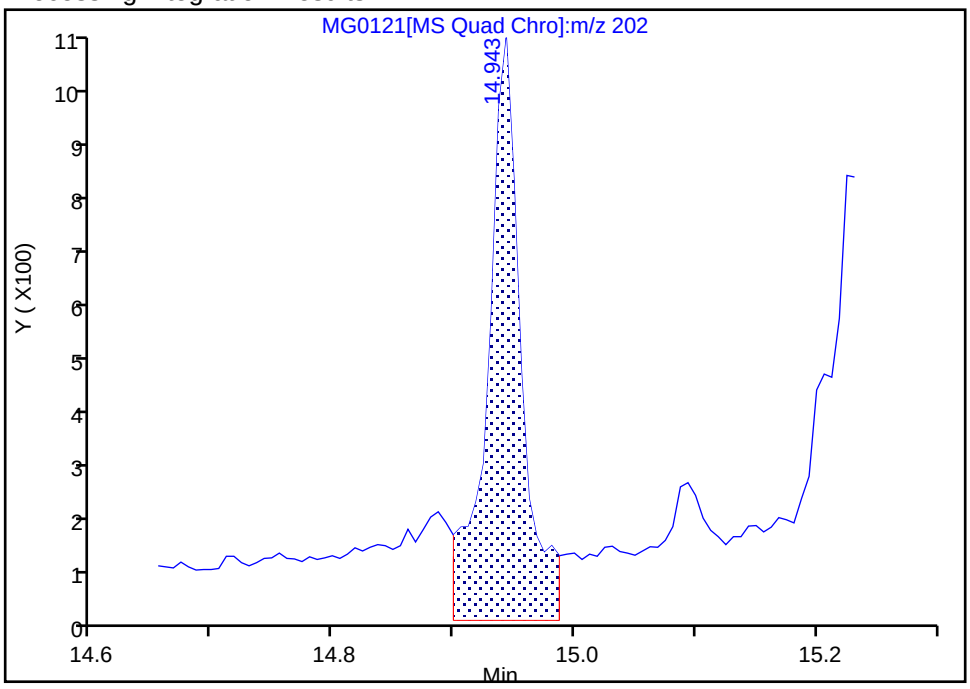
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Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

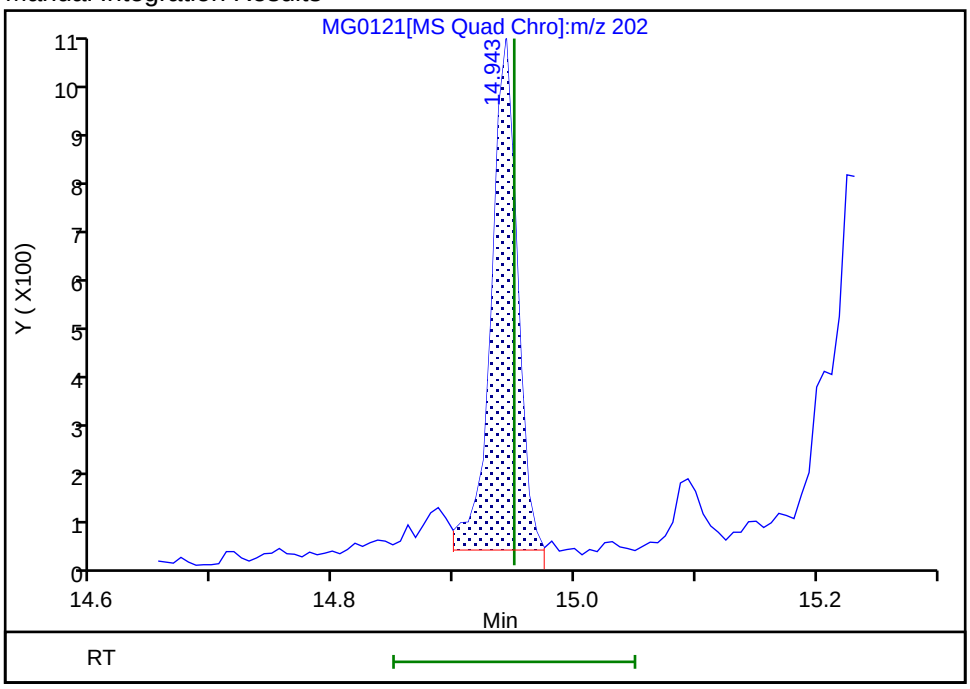
Processing Integration Results

RT: 14.94
Area: 2112
Amount: 0.007842
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 1453
Amount: 0.005395
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:17:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

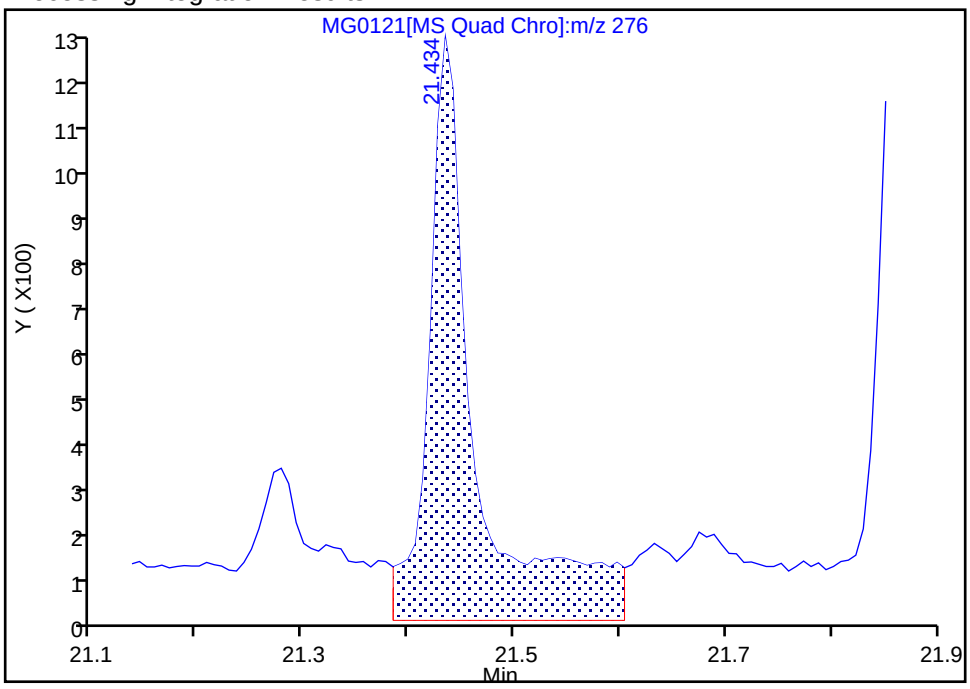
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Injection Date:	02-Jul-2021 15:03:21	Instrument ID:	HP21585		
Lims ID:	410-45105-B-2-A	Lab Sample ID:	410-45105-2		
Client ID:	MW-10S-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

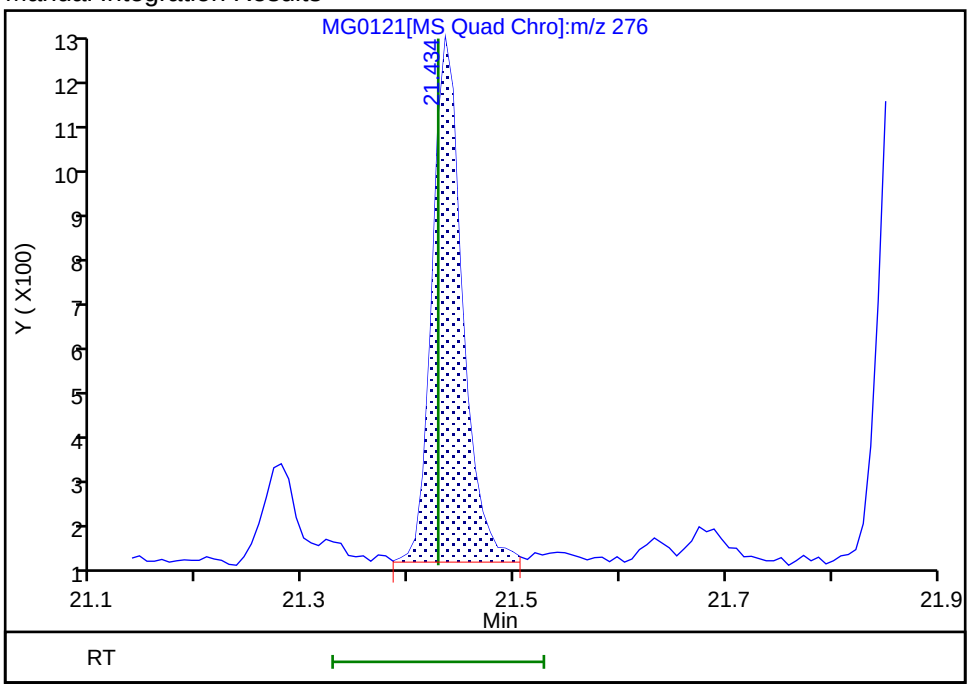
Processing Integration Results

RT: 21.43
Area: 3938
Amount: 0.013532
Amount Units: ug/ml



Manual Integration Results

RT: 21.43
Area: 2338
Amount: 0.008034
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:18:07

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-10D-20210622 Lab Sample ID: 410-45105-3

Matrix: Groundwater Lab File ID: MG0022.D

Analysis Method: 8270D SIM Date Collected: 06/22/2021 14:10

Extract. Method: 3510C Date Extracted: 06/29/2021 09:35

Sample wt/vol: 239.7(mL) Date Analyzed: 07/02/2021 03:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144441 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	0.018	J B	0.052	0.010
50-32-8	Benzo[a]pyrene	0.021	J B	0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.026	J B	0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.021	J B	0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.011	J B	0.052	0.010
218-01-9	Chrysene	0.020	J B	0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	0.013	J	0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.023	J	0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	0.024	J B	0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	72		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		36-111
93951-69-0	Fluoranthene-d10 (Surr)	84		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0022.D
Lims ID: 410-45105-A-3-A
Client ID: MW-10D-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 03:33:54 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-3-A
Misc. Info.: 410-0033409-013
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Jul-2021 10:09:39 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: transuea Date: 02-Jul-2021 10:00:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	93	11845	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	0.000	91	40666	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	20000	0.1892	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	97	26565	0.2500	
* 20 Phenanthrene-d10	188	13.273	13.273	0.000	95	55905	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	96	54939	0.2100	
25 Fluoranthene	202	14.943	14.943	0.000	97	997	0.003195	M
26 Pyrene	202	15.288	15.288	0.000	96	1697	0.005741	
28 Benzo[a]anthracene	228	17.294	17.294	0.008	99	1346	0.004348	M
* 29 Chrysene-d12	240	17.309	17.309	0.000	59	59693	0.2500	
30 Chrysene	228	17.356	17.356	0.001	99	1531	0.004691	M
33 Benzo[b]fluoranthene	252	19.166	19.166	0.016	99	2089	0.006160	M
34 Benzo[k]fluoranthene	252	19.204	19.204	0.008	89	952	0.002589	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	98	50037	0.1797	
37 Benzo[a]pyrene	252	19.679	19.679	0.000	100	1682	0.005135	M
* 38 Perylene-d12	264	19.771	19.771	0.000	97	72827	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.442	21.442	0.022	98	1692	0.005500	M
42 Benzo[g,h,i]perylene	276	21.866	21.865	0.015	90	1842	0.005047	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

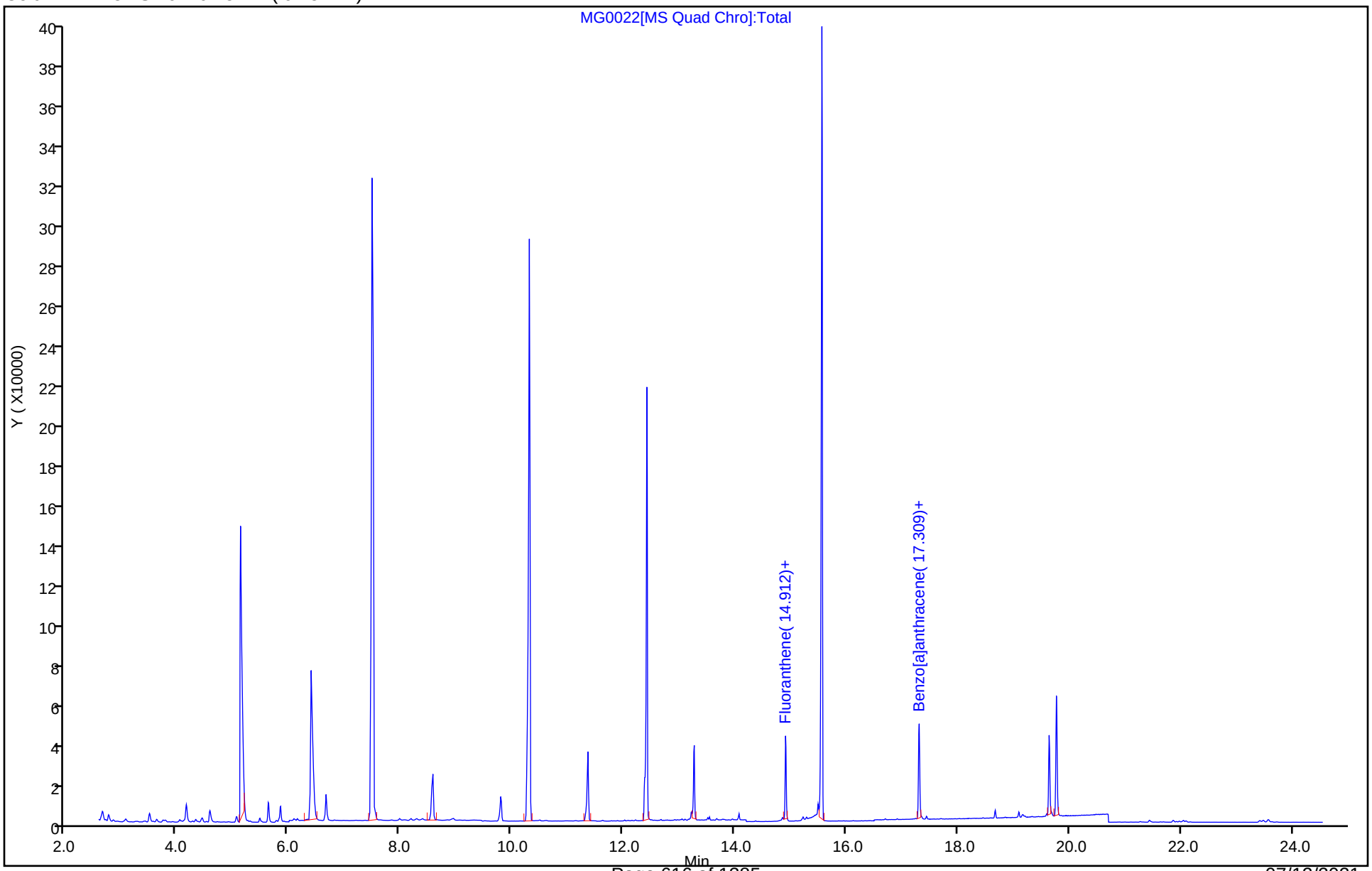
Report Date: 02-Jul-2021 10:12:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3	Worklist Smp#:	14
Client ID:	MW-10D-20210622				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

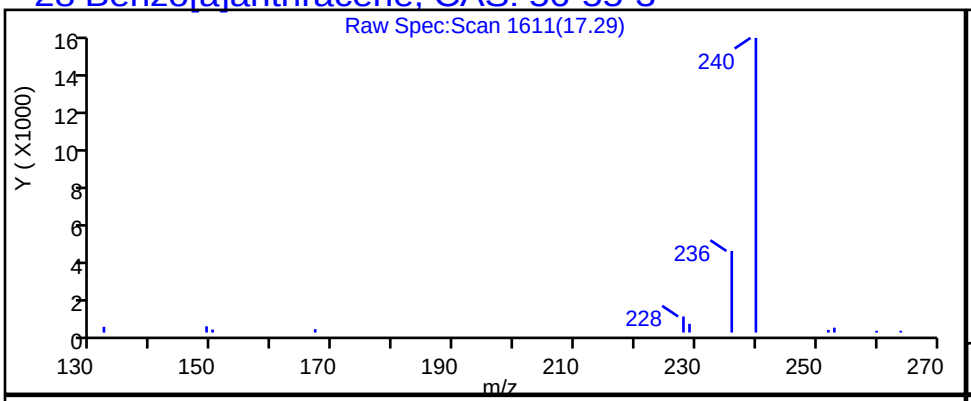
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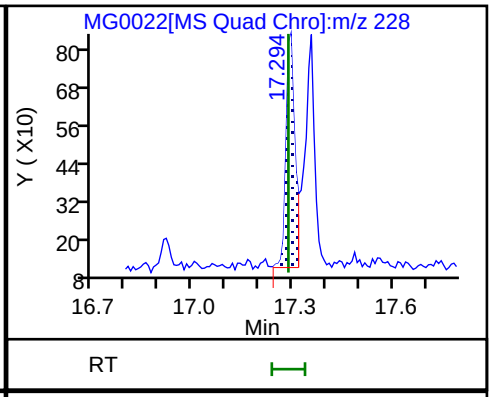


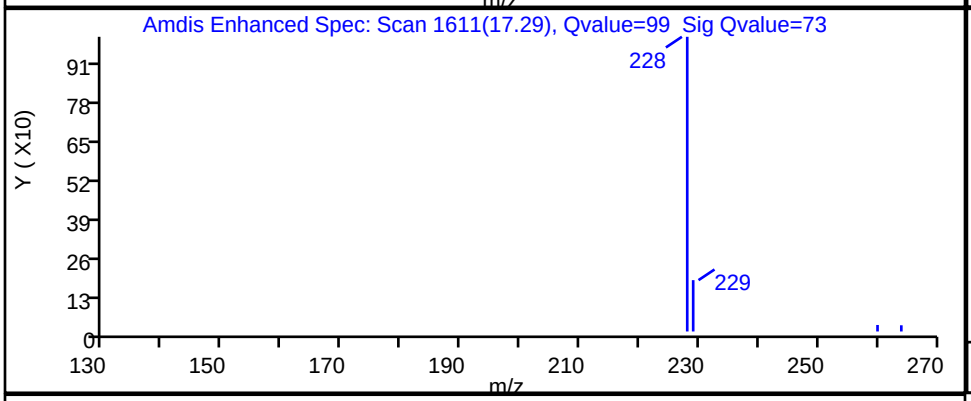
Eurofins Lancaster Laboratories Env, LLC

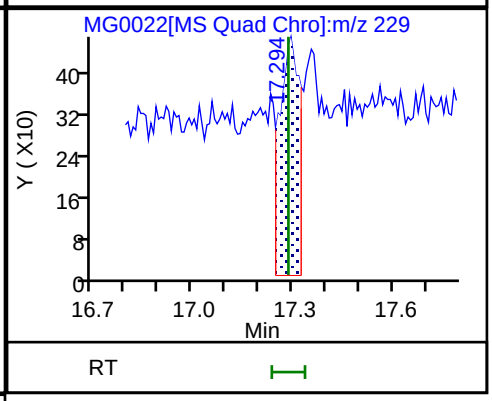
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Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

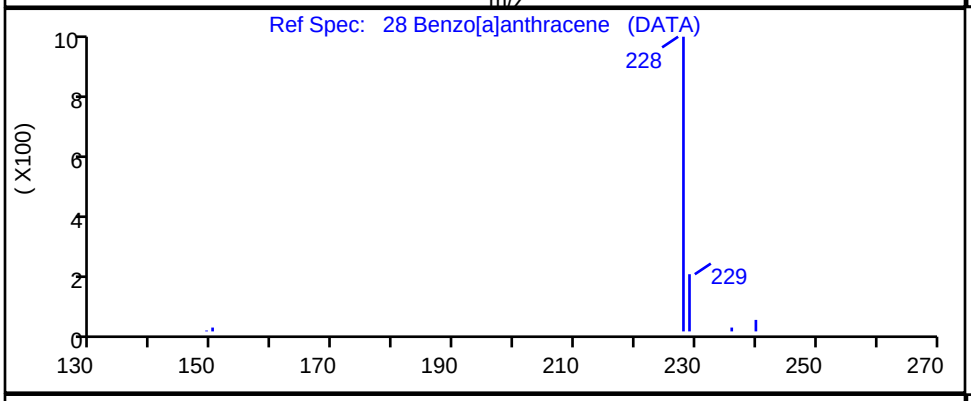
28 Benzo[a]anthracene, CAS: 56-55-3

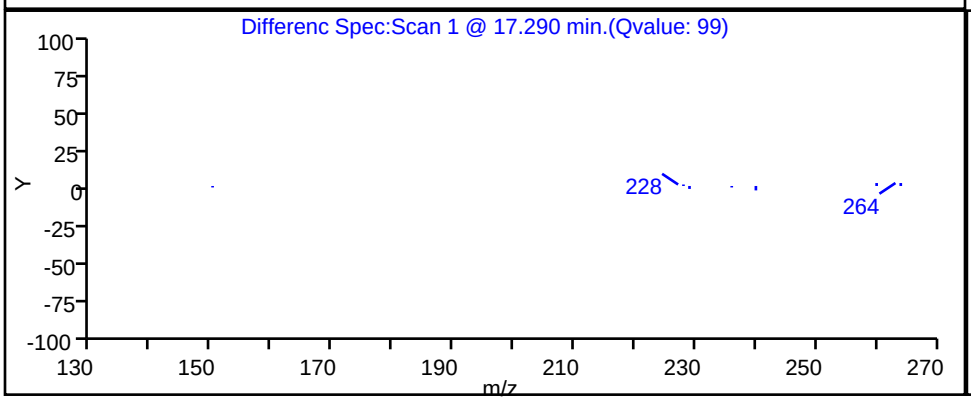


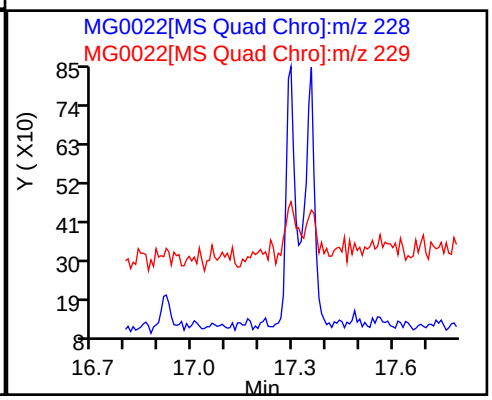








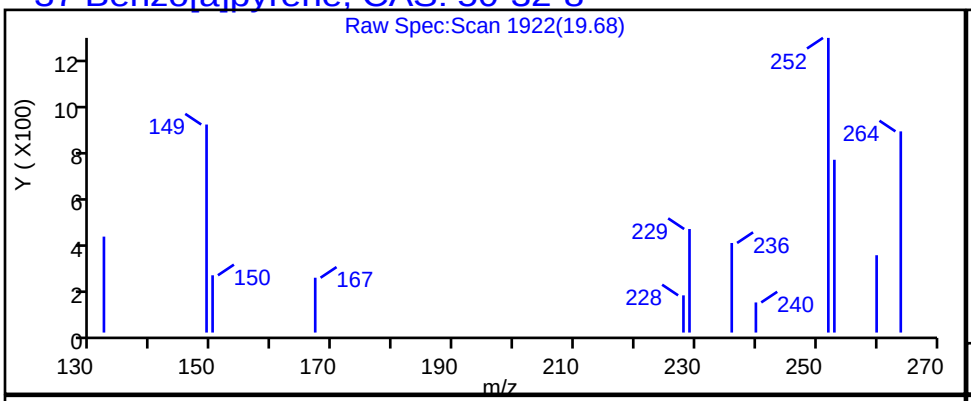


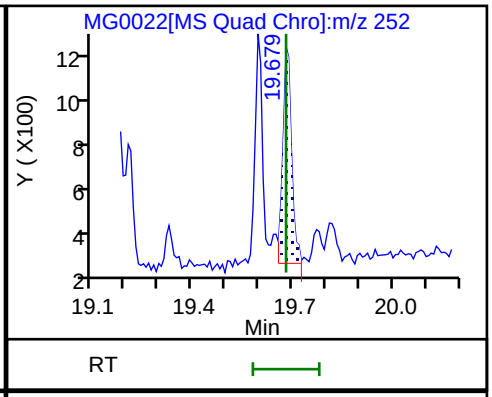


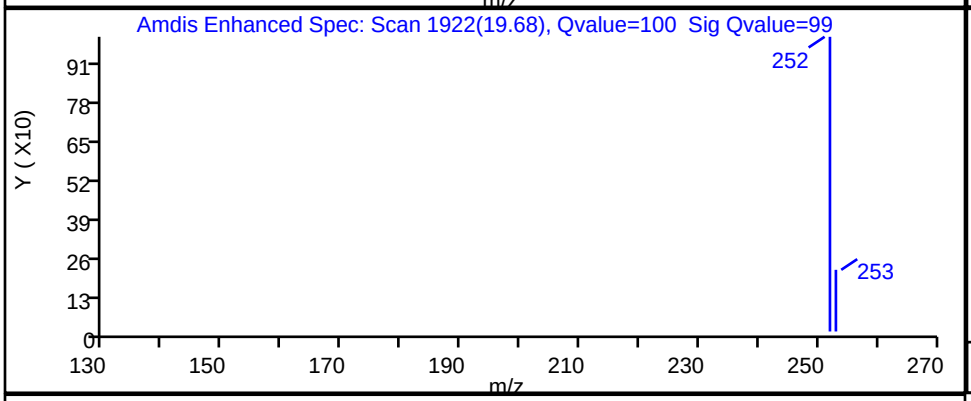
Eurofins Lancaster Laboratories Env, LLC

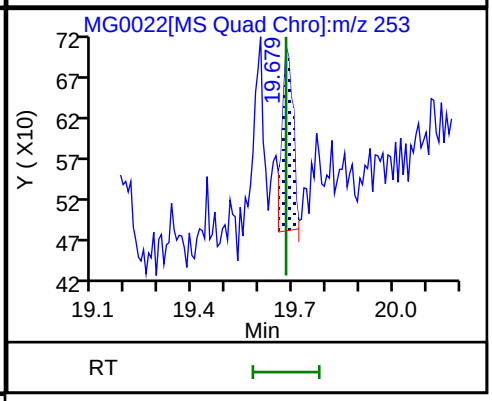
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

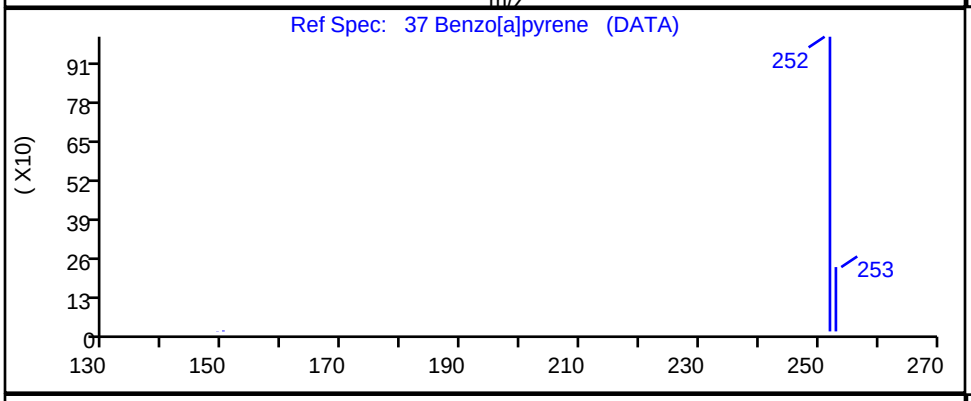
37 Benzo[a]pyrene, CAS: 50-32-8

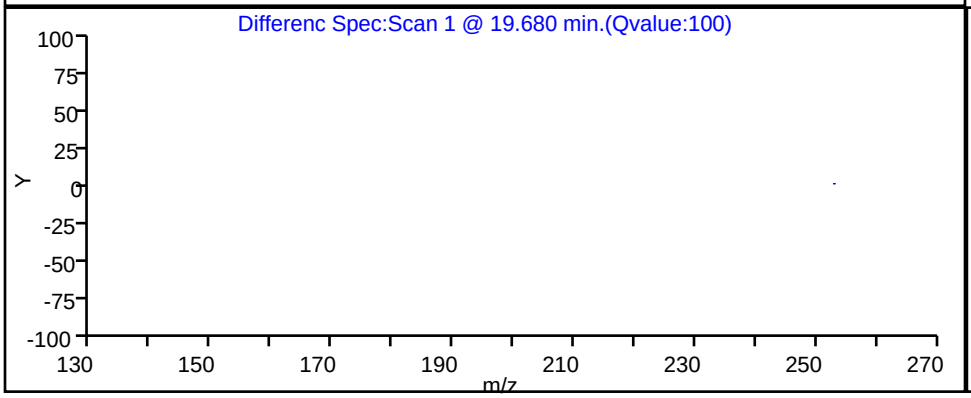


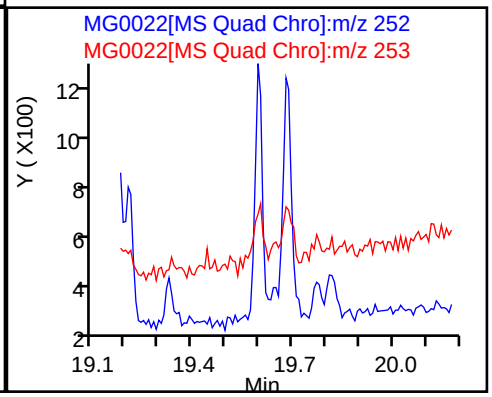








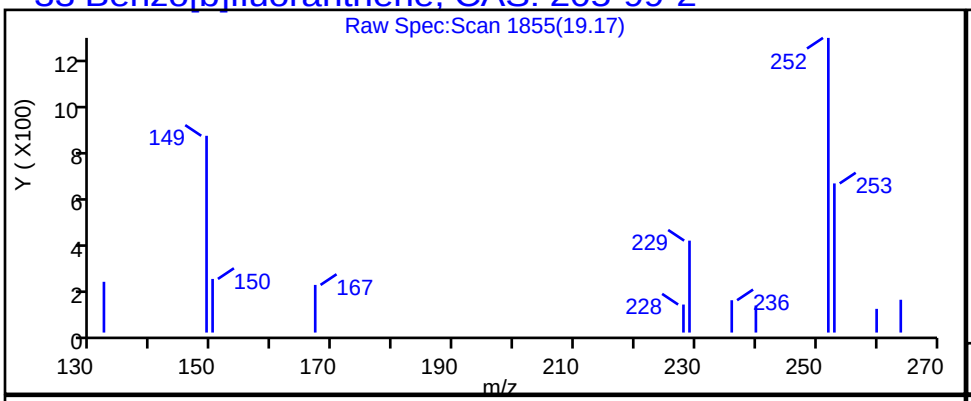


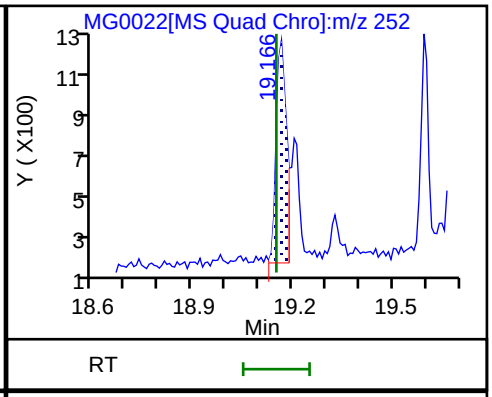


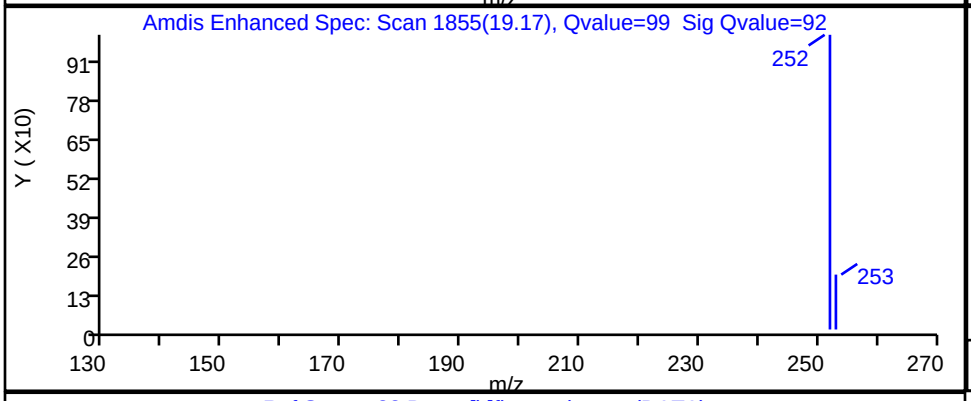
Eurofins Lancaster Laboratories Env, LLC

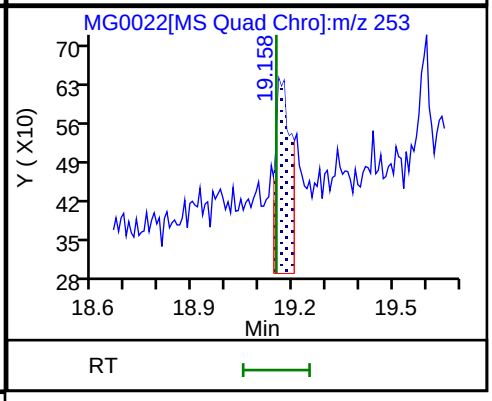
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

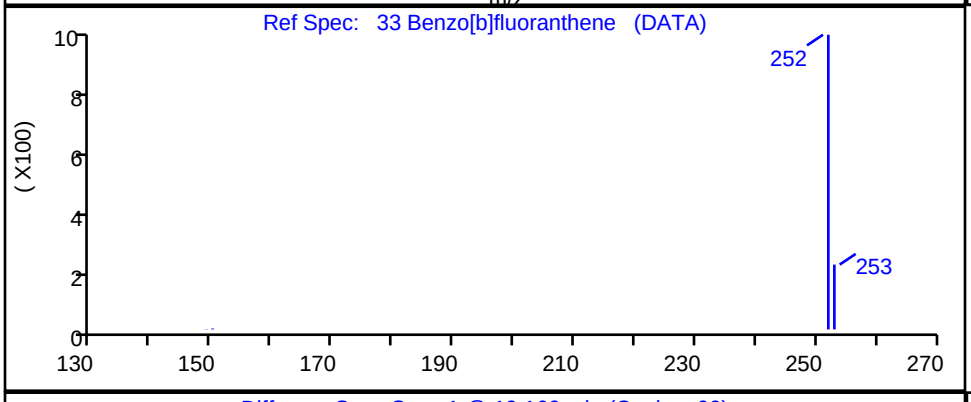
33 Benzo[b]fluoranthene, CAS: 205-99-2

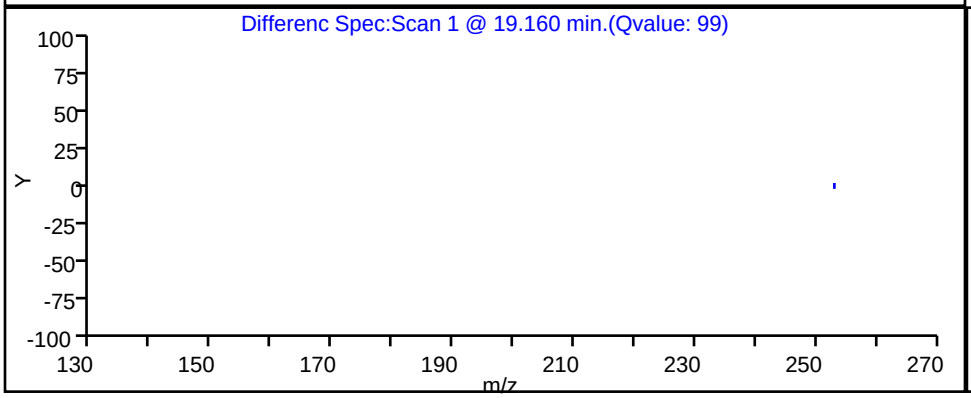


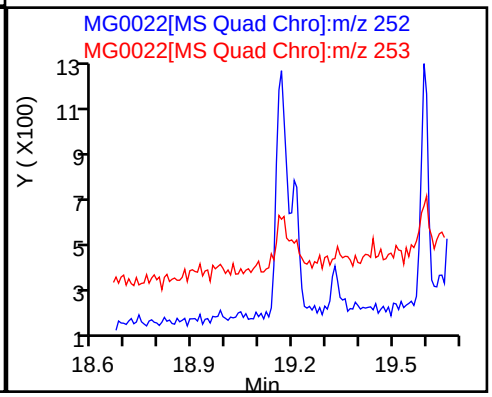










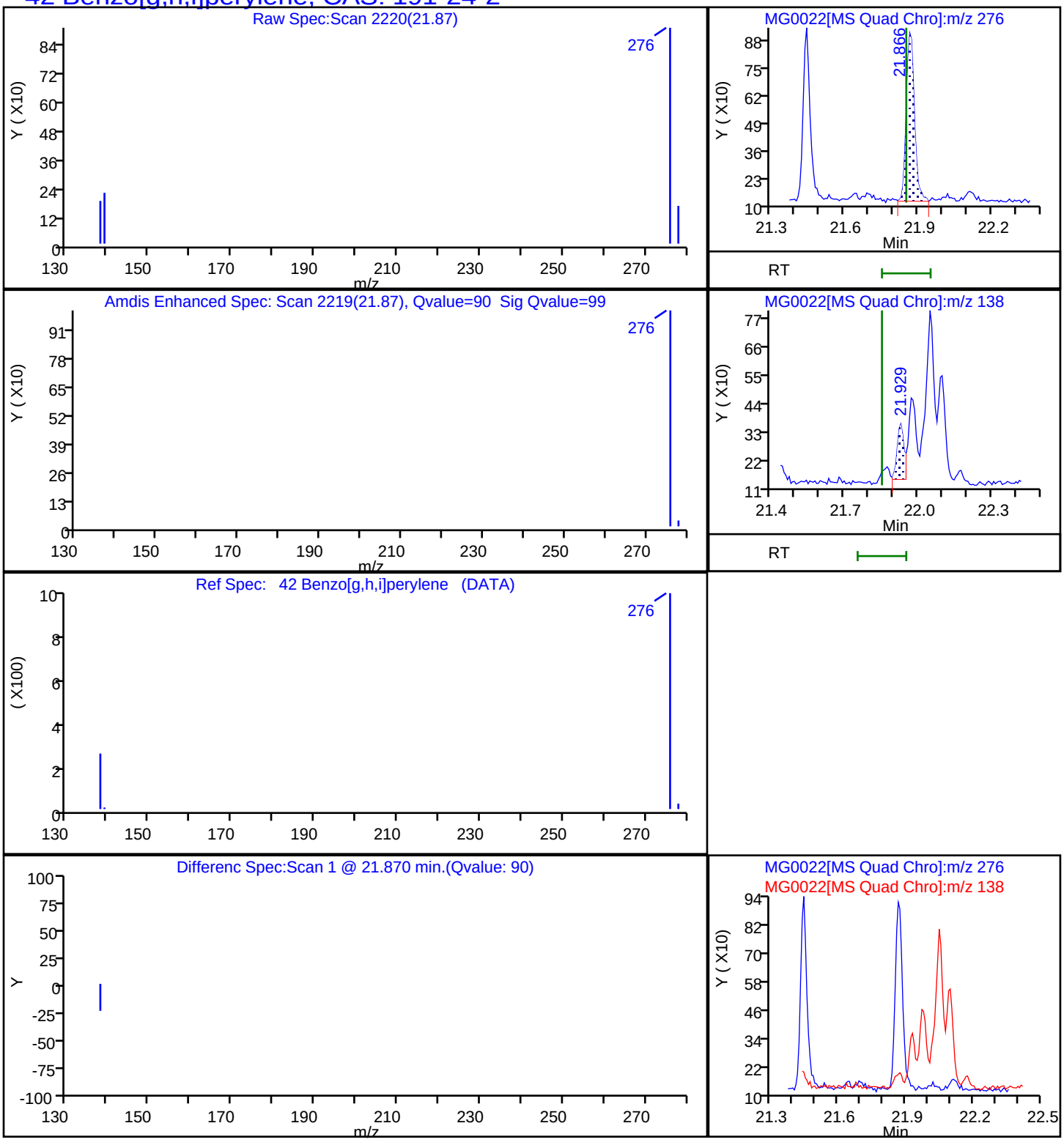


Report Date: 02-Jul-2021 10:12:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

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Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

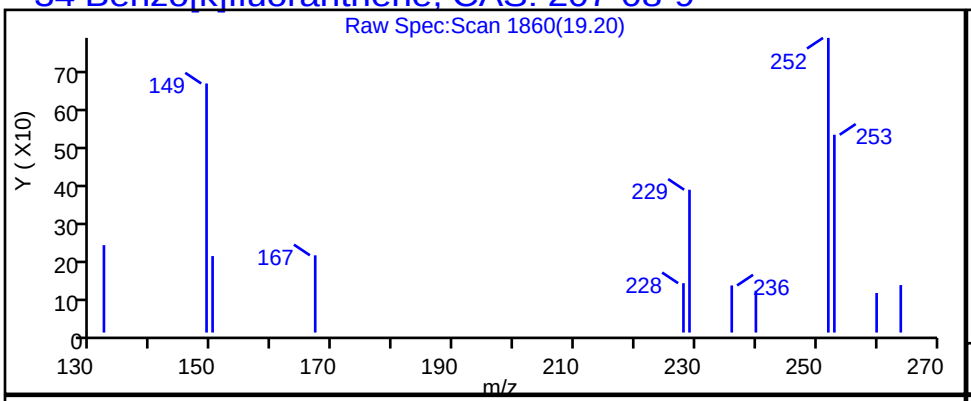
42 Benzo[g,h,i]perylene, CAS: 191-24-2

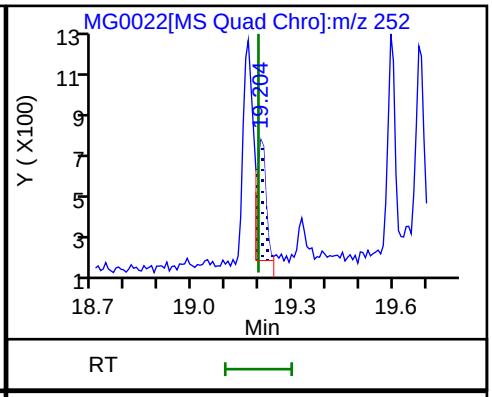


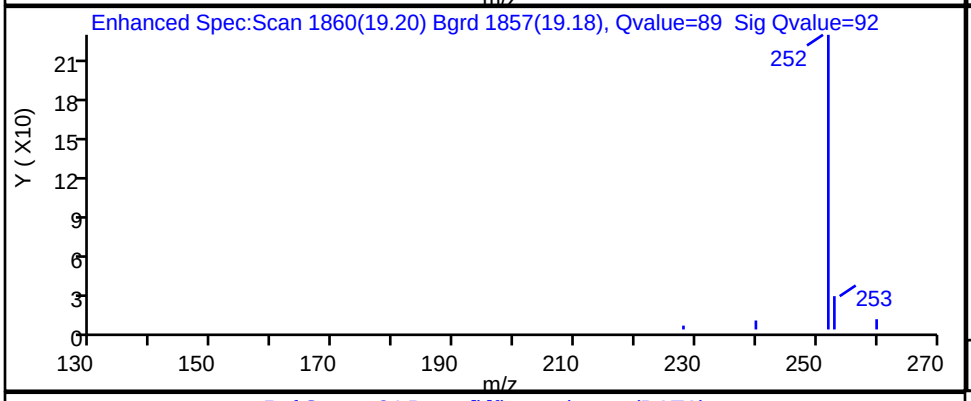
Eurofins Lancaster Laboratories Env, LLC

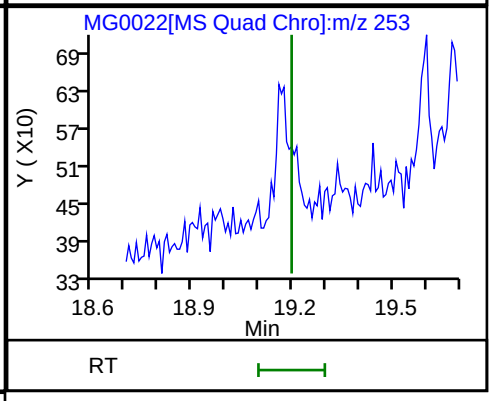
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

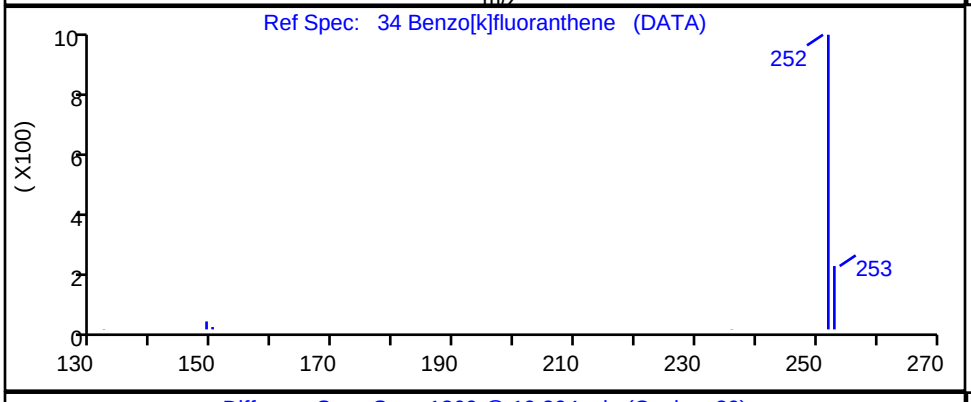
34 Benzo[k]fluoranthene, CAS: 207-08-9

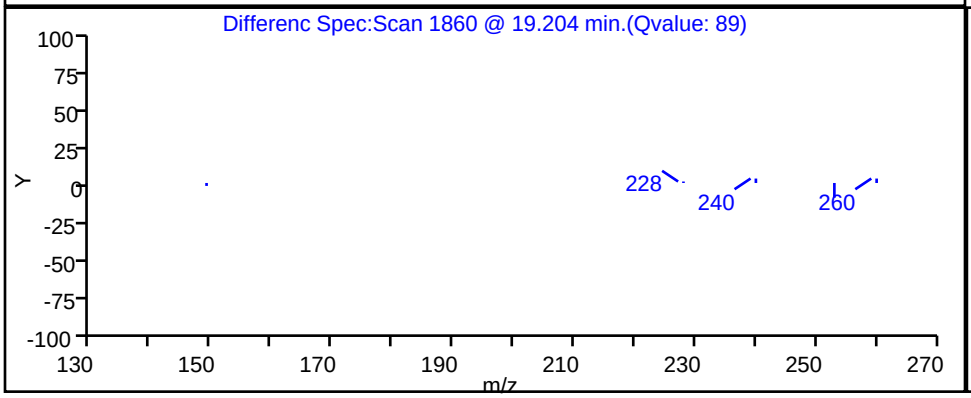


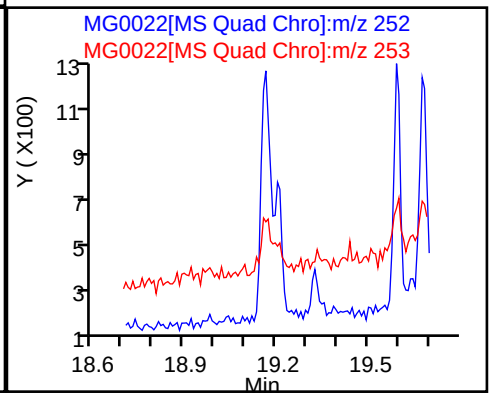










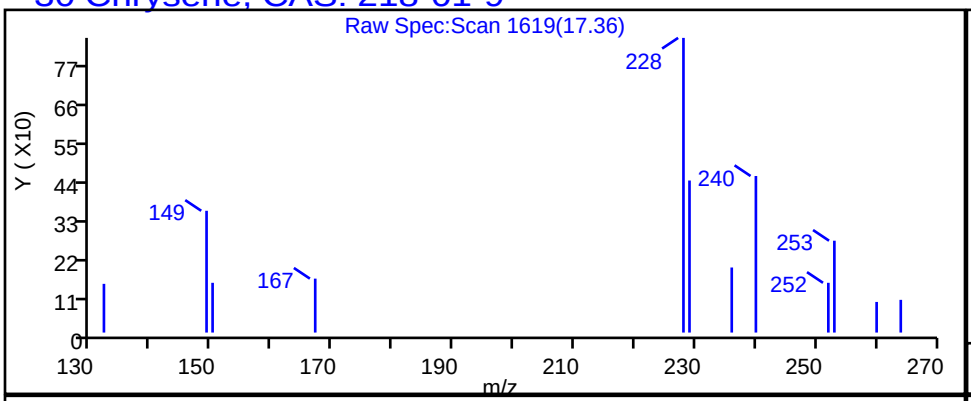


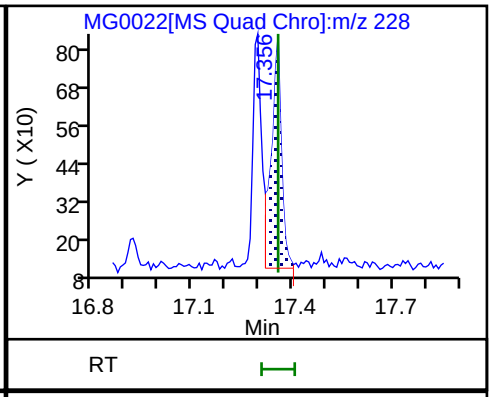
Report Date: 02-Jul-2021 10:12:32 Chrom Revision: 2.3 13-May-2021 07:57:40

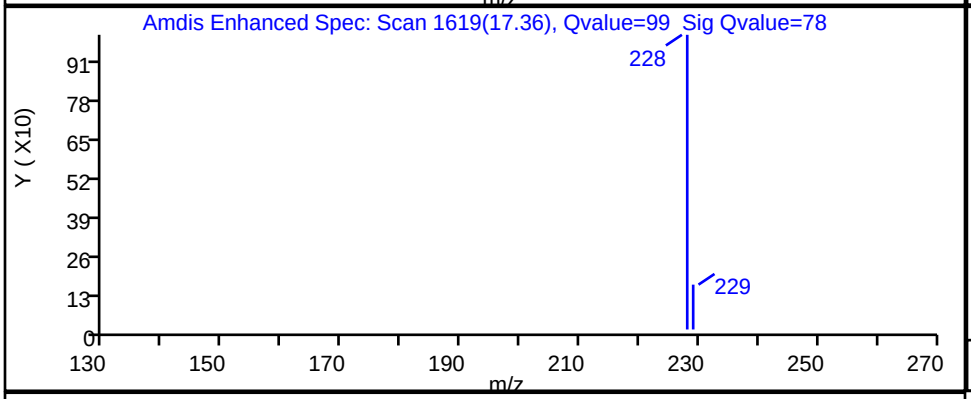
Eurofins Lancaster Laboratories Env, LLC

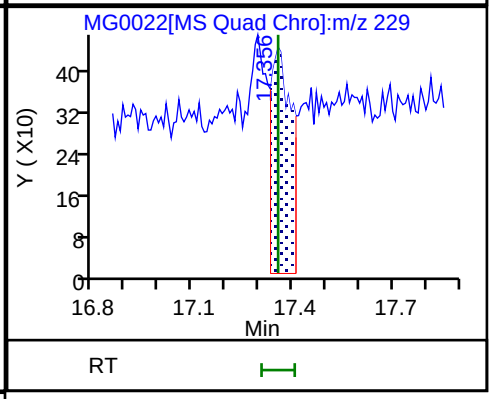
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

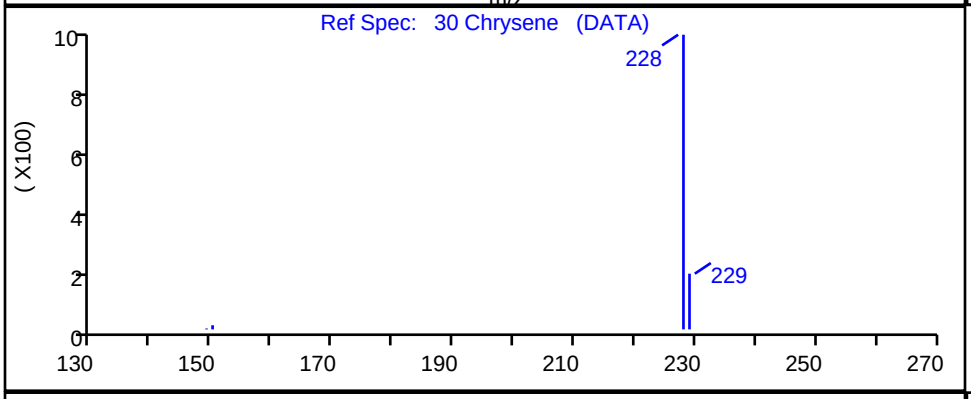
30 Chrysene, CAS: 218-01-9

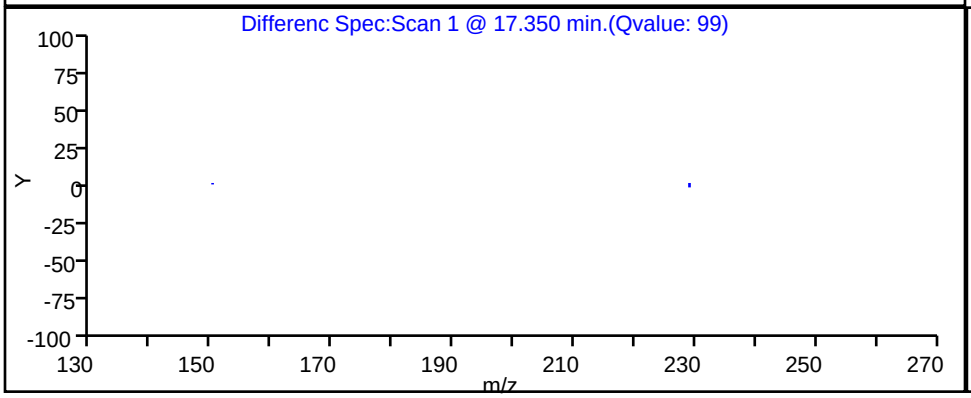


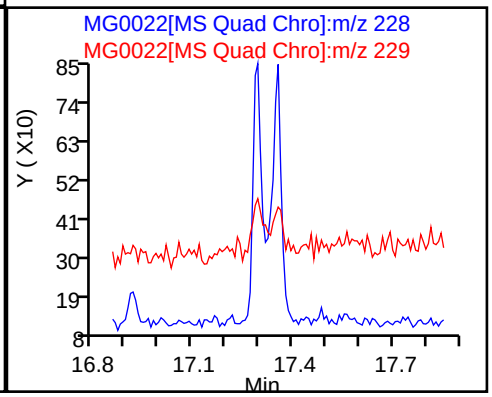












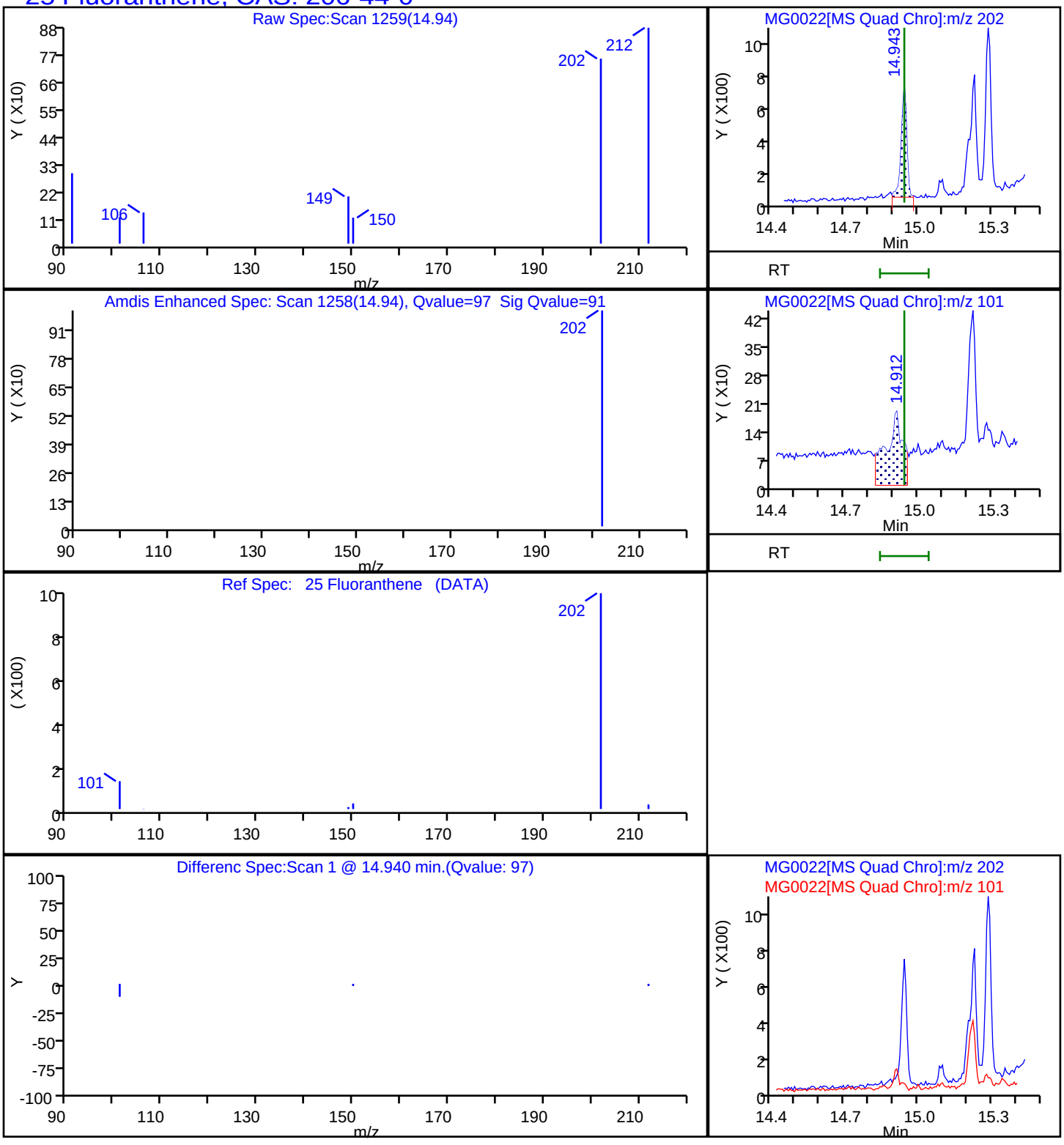
Report Date: 02-Jul-2021 10:12:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3
Client ID:	MW-10D-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

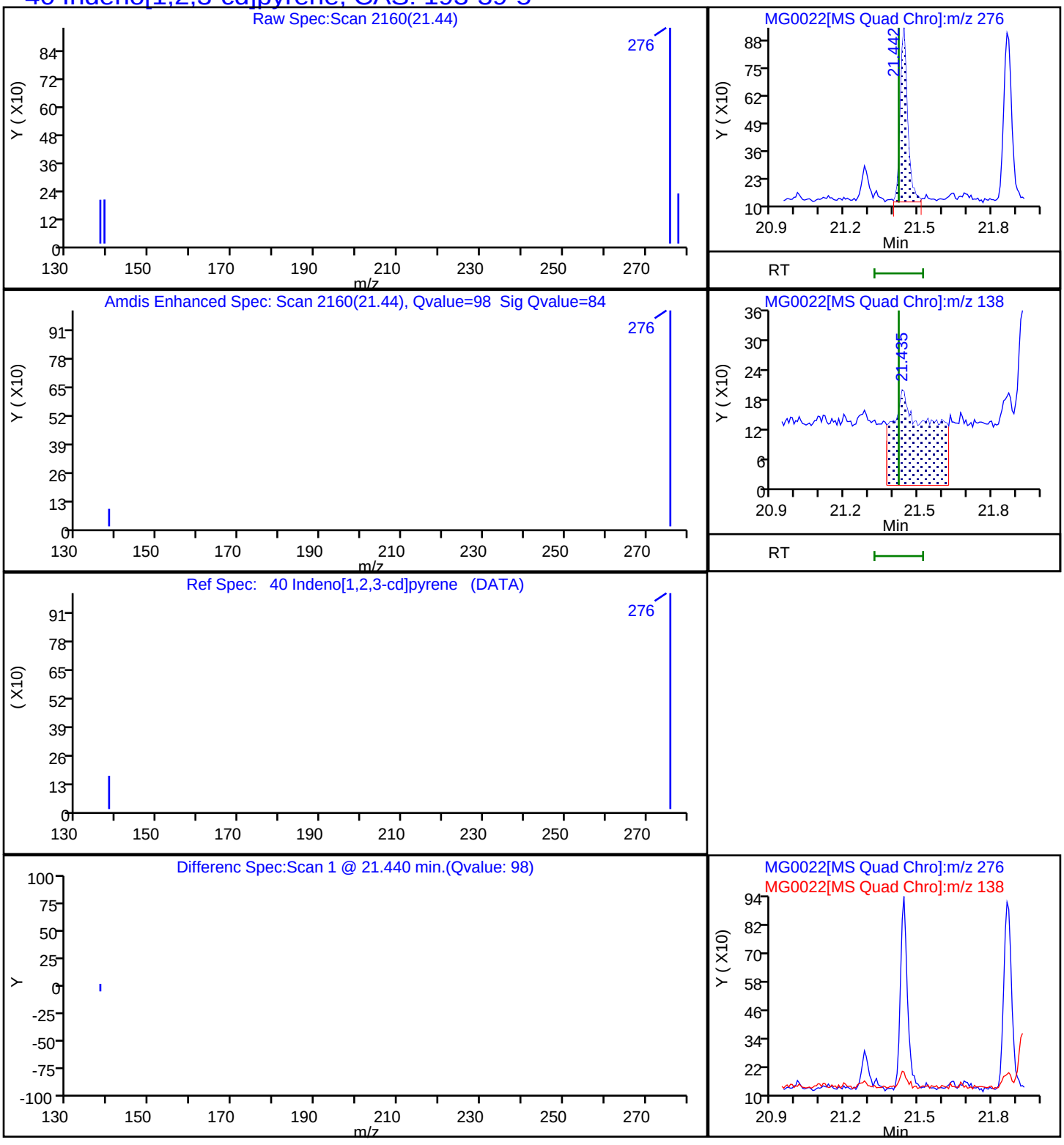
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0022.D		
Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3
Client ID:	MW-10D-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



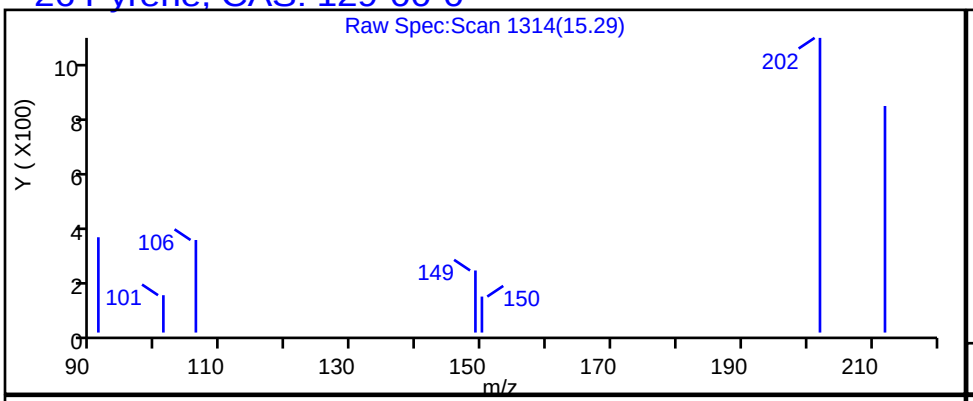
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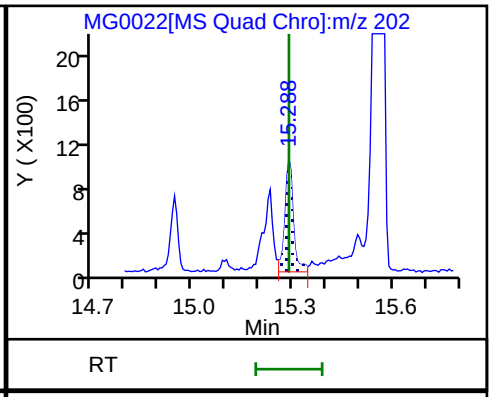
Eurofins Lancaster Laboratories Env, LLC

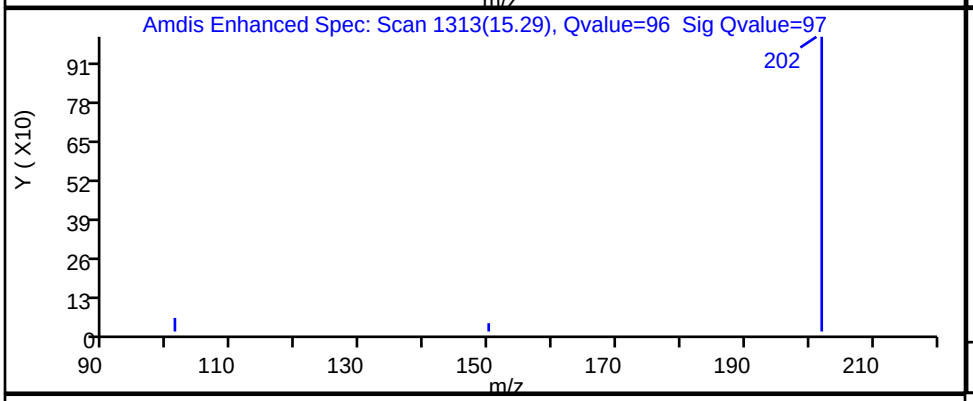
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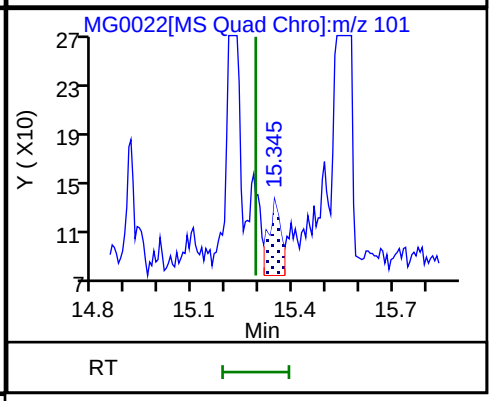
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Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

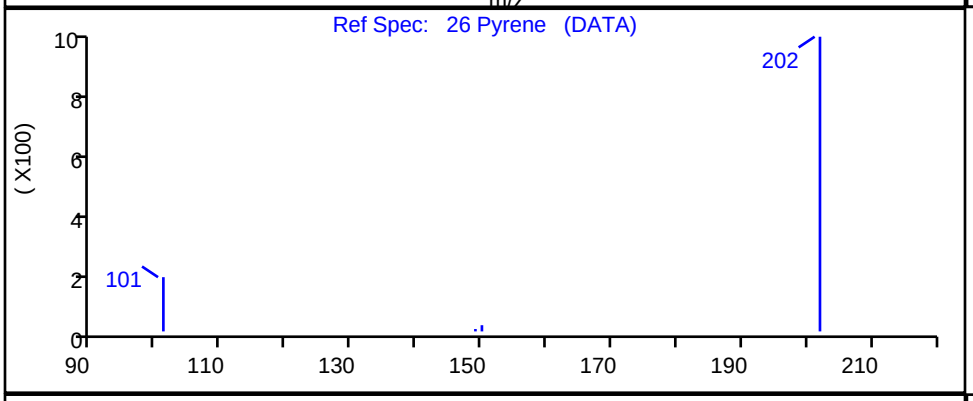
26 Pyrene, CAS: 129-00-0

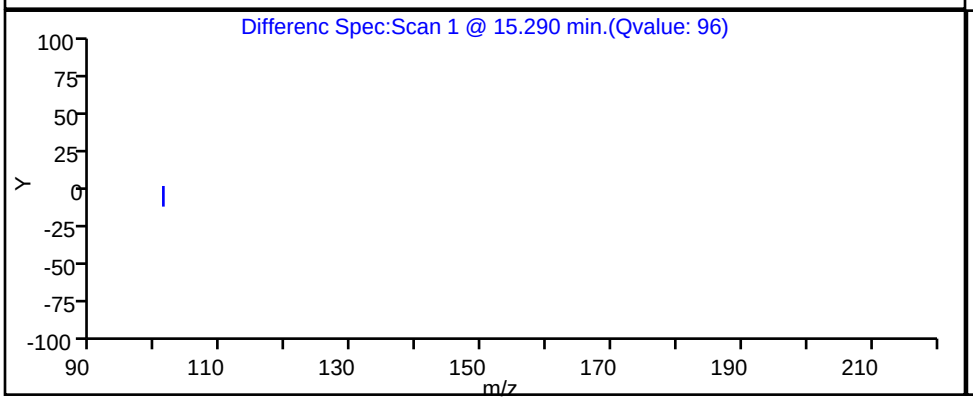


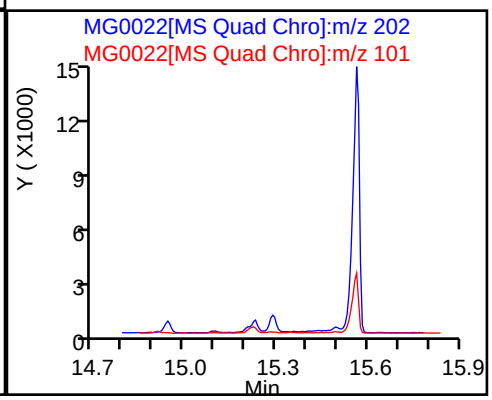












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

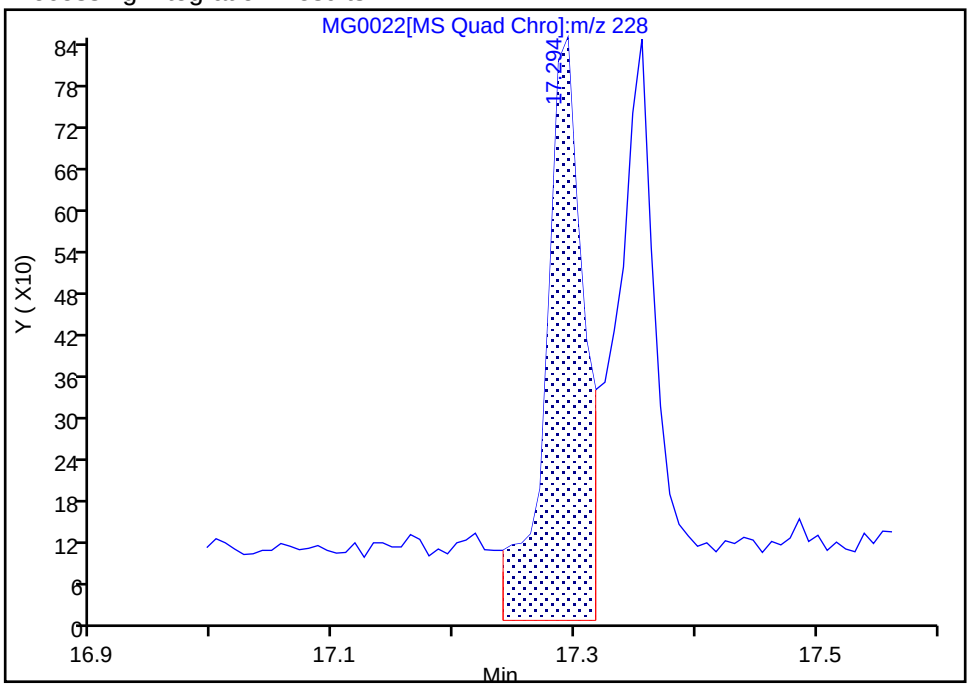
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Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

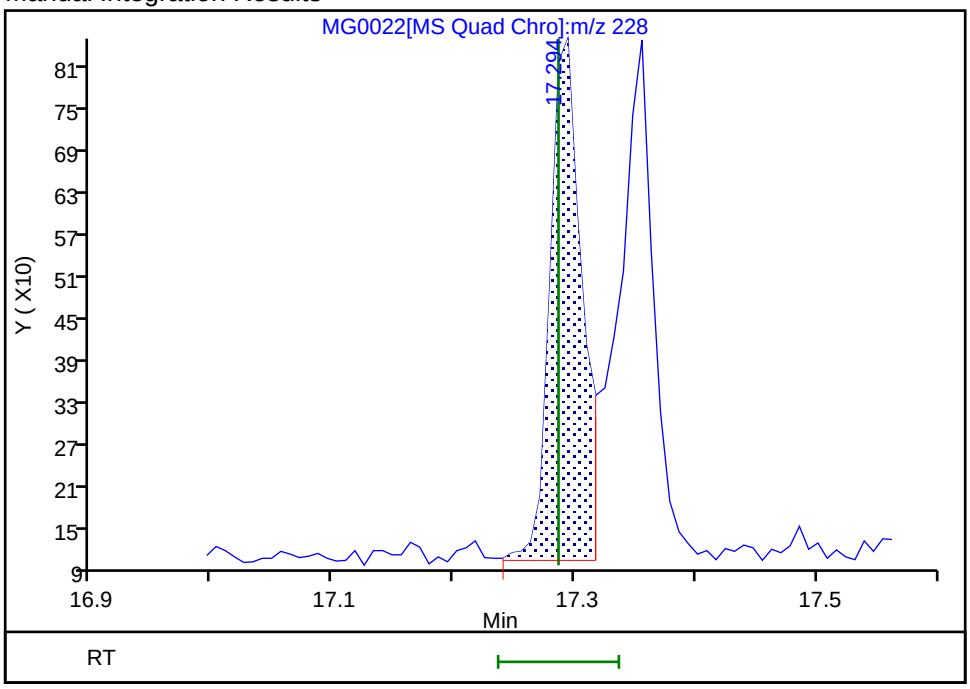
Processing Integration Results

RT: 17.29
Area: 1801
Amount: 0.005817
Amount Units: ug/ml



Manual Integration Results

RT: 17.29
Area: 1346
Amount: 0.004348
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:59:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

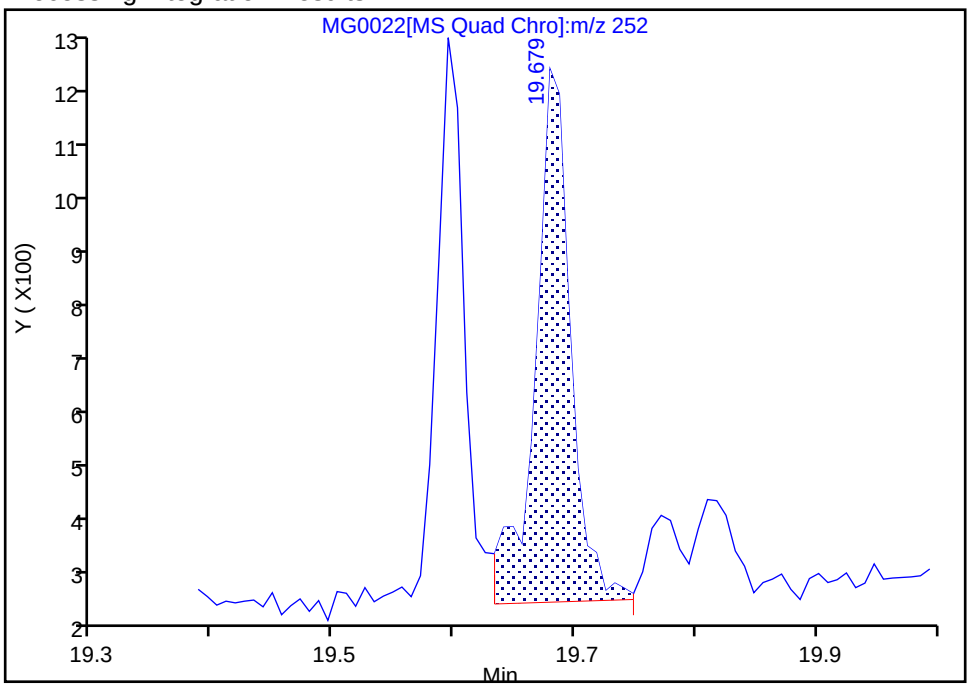
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

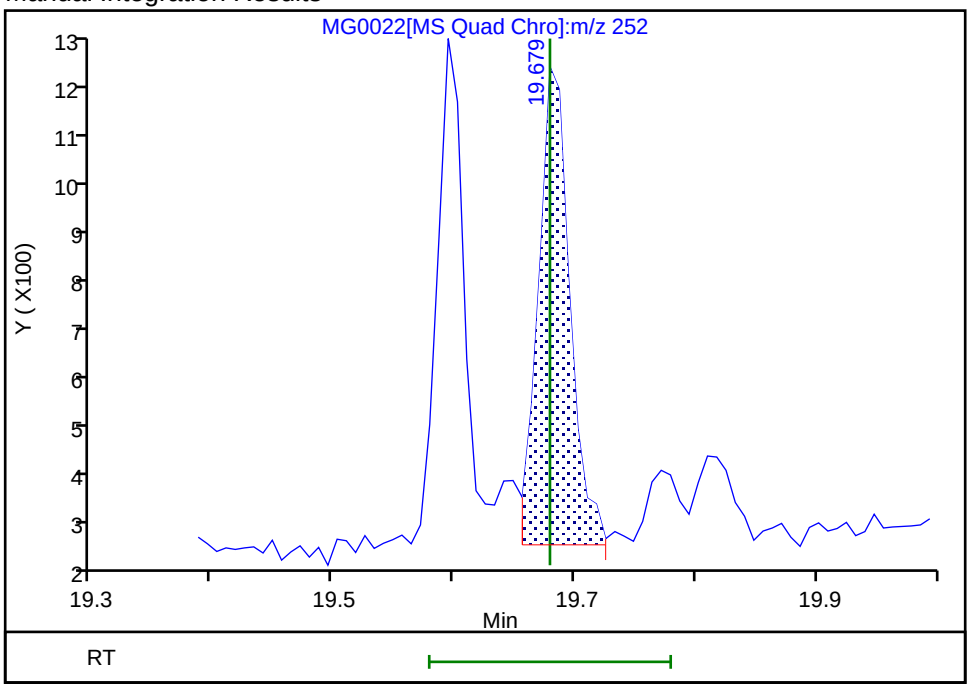
Processing Integration Results

RT: 19.68
Area: 1909
Amount: 0.005828
Amount Units: ug/ml



Manual Integration Results

RT: 19.68
Area: 1682
Amount: 0.005135
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 10:00:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

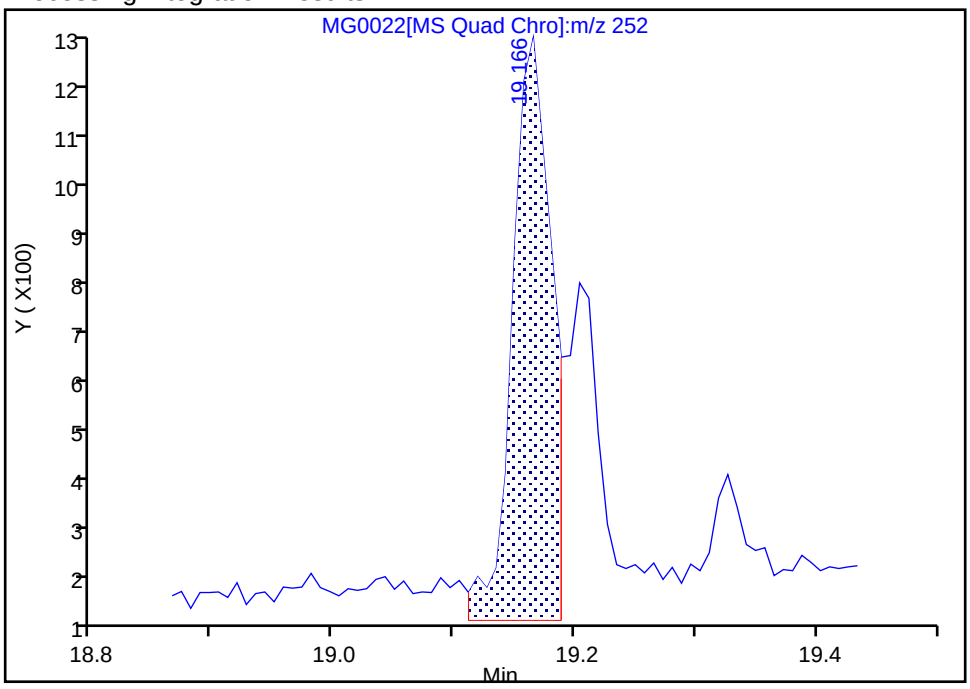
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

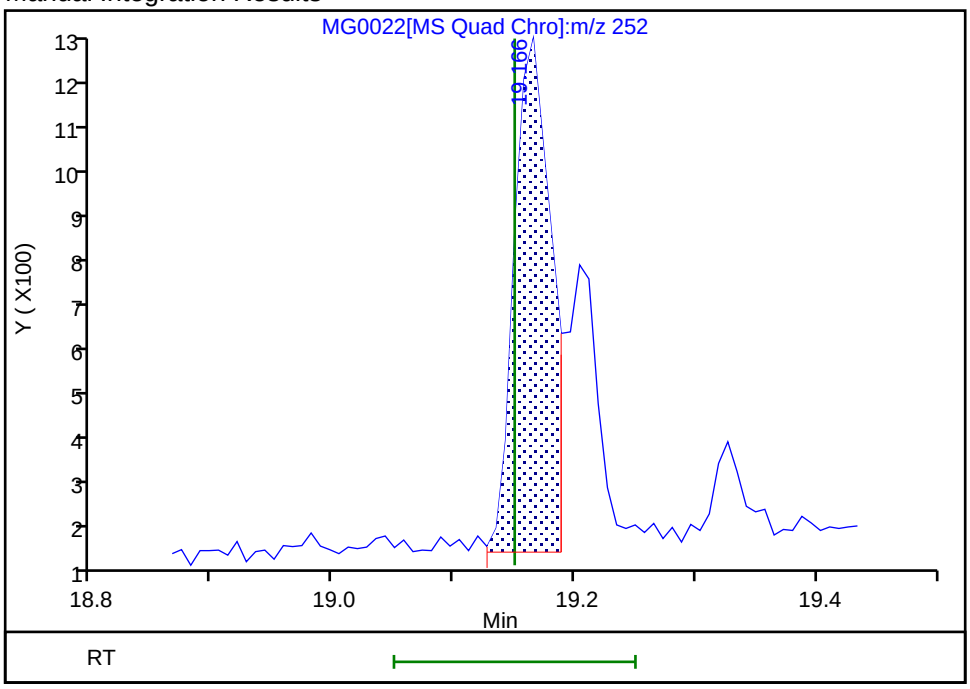
Processing Integration Results

RT: 19.17
Area: 2328
Amount: 0.006865
Amount Units: ug/ml



Manual Integration Results

RT: 19.17
Area: 2089
Amount: 0.006160
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:59:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

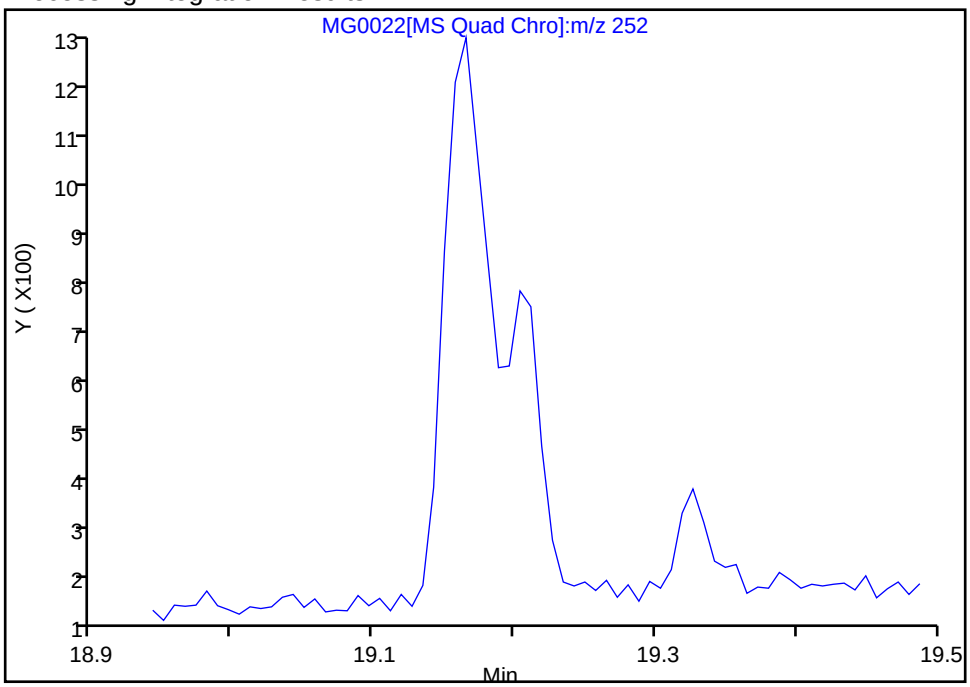
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0022.D				
Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

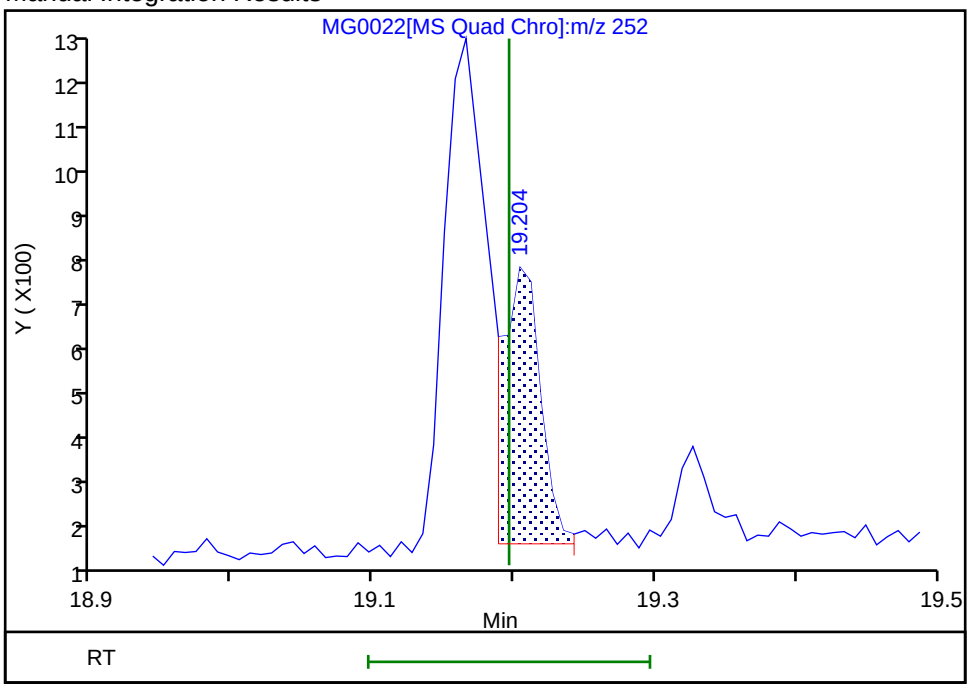
Not Detected
Expected RT: 19.20

Processing Integration Results



Manual Integration Results

RT: 19.20
Area: 952
Amount: 0.002589
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 10:00:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

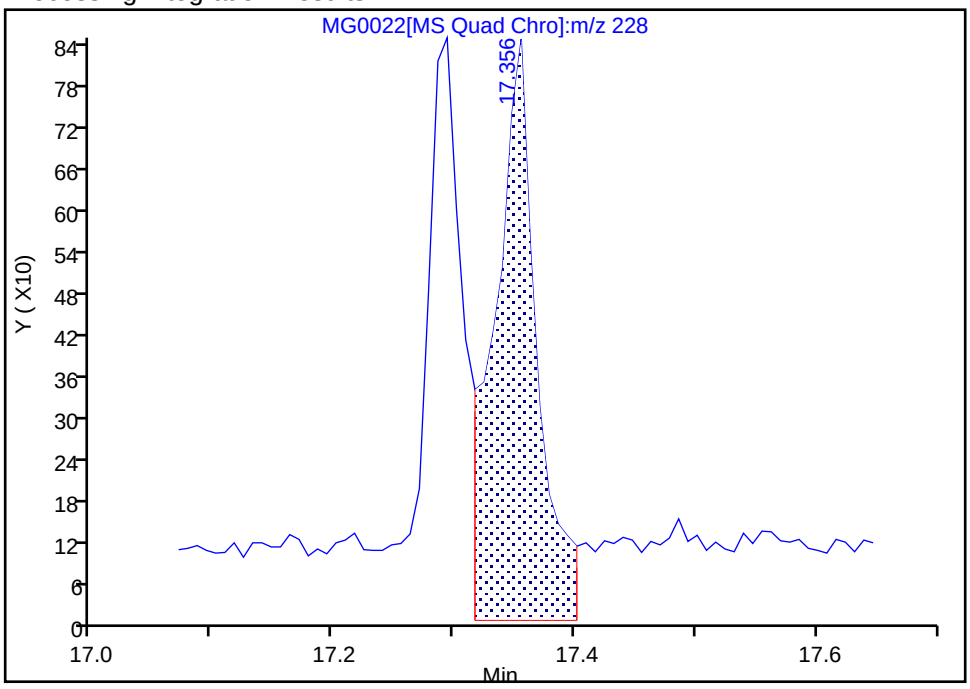
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Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

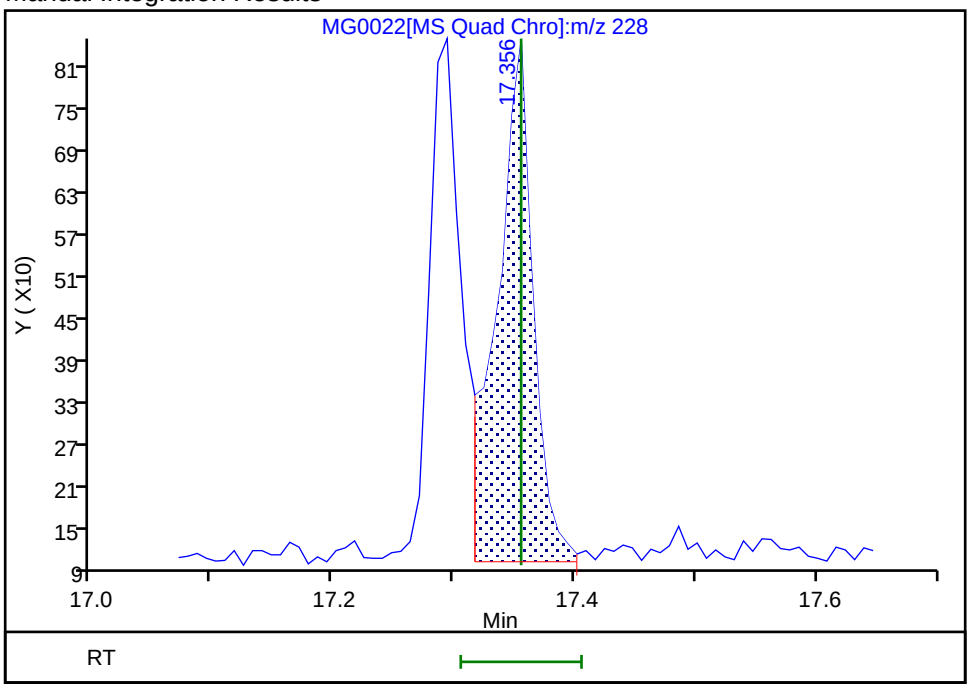
Processing Integration Results

RT: 17.36
Area: 2022
Amount: 0.006195
Amount Units: ug/ml



Manual Integration Results

RT: 17.36
Area: 1531
Amount: 0.004691
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:59:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

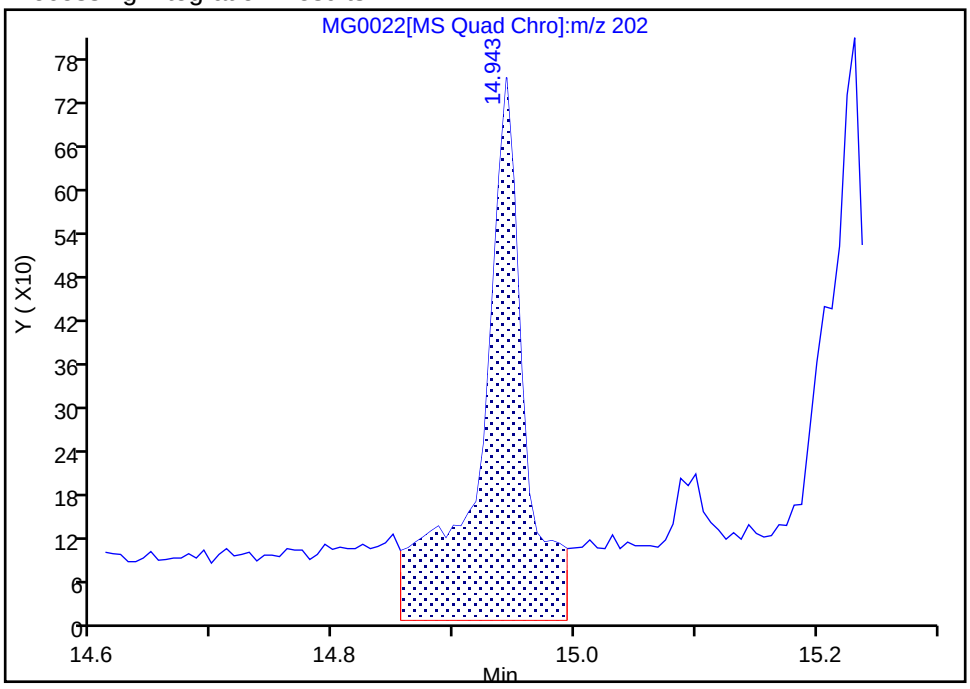
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

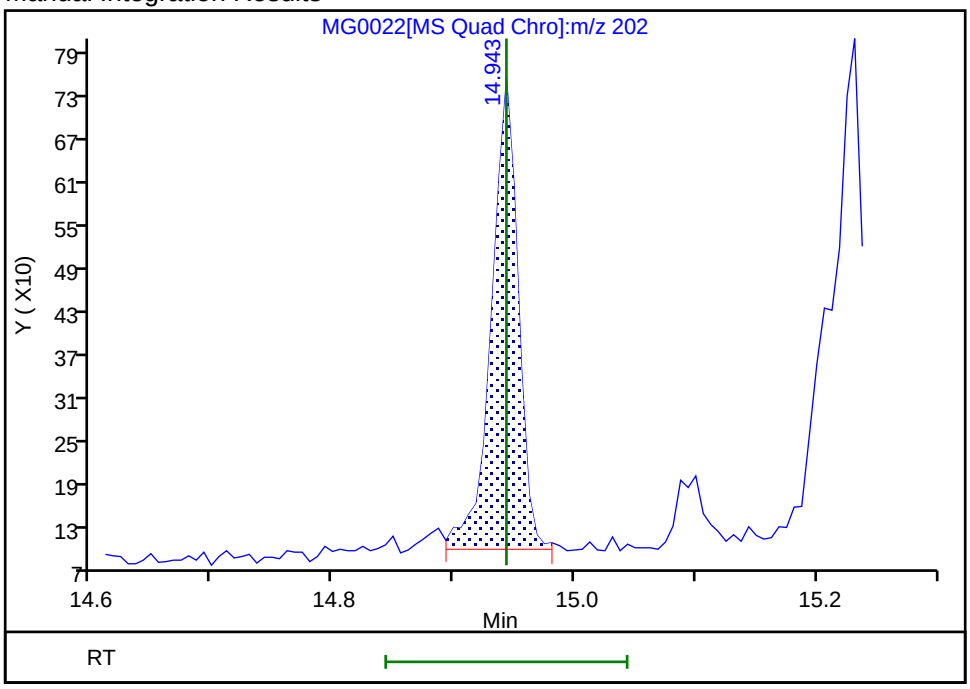
Processing Integration Results

RT: 14.94
Area: 1864
Amount: 0.005973
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 997
Amount: 0.003195
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:59:00

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

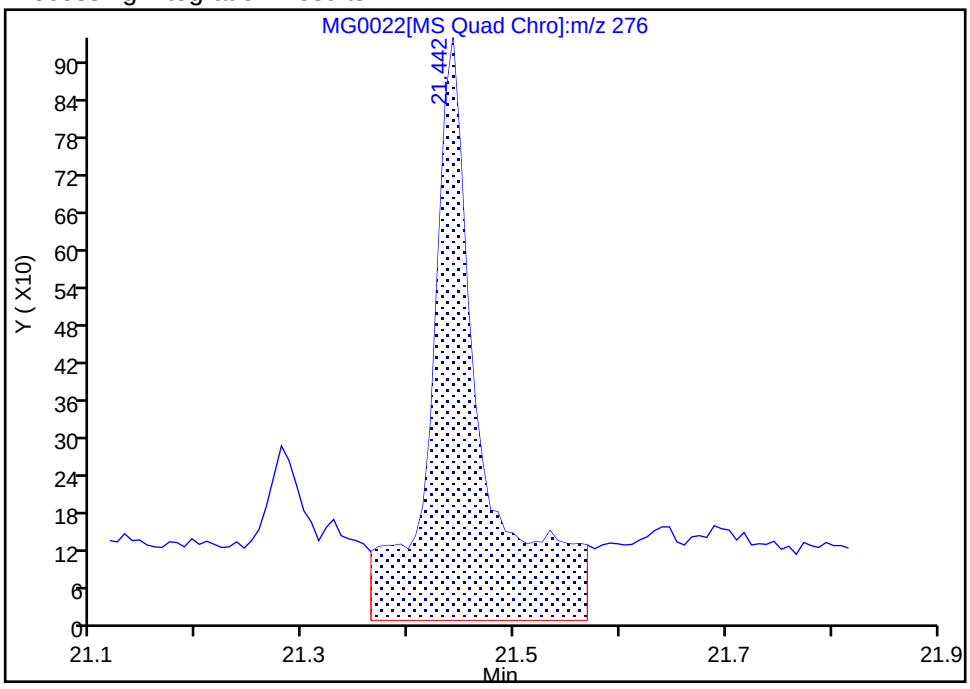
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Injection Date:	02-Jul-2021 03:33:54	Instrument ID:	HP21585		
Lims ID:	410-45105-A-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

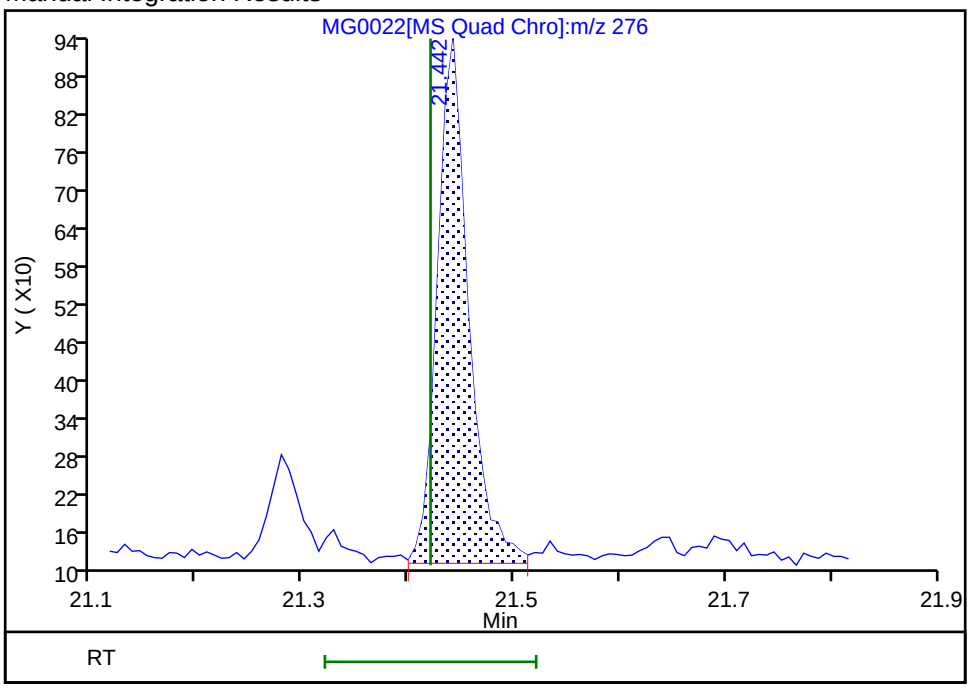
Processing Integration Results

RT: 21.44
Area: 3112
Amount: 0.010116
Amount Units: ug/ml



Manual Integration Results

RT: 21.44
Area: 1692
Amount: 0.005500
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 10:00:19

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-10D-20210622 RE Lab Sample ID: 410-45105-3 RE

Matrix: Groundwater Lab File ID: MG0122.D

Analysis Method: 8270D SIM Date Collected: 06/22/2021 14:10

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 241.7(mL) Date Analyzed: 07/02/2021 15:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*	*H*	*0.052*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.052*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.052*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.014*	*J H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.018*	*J H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.021*	*J H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.017*	*J H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*0.016*	*J H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.010*	*J H*	*0.052*	*0.010*
86-73-7	*Fluorene*	*ND*	*H*	*0.052*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.052*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.072*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.072*	*0.031*
129-00-0	*Pyrene*	*0.021*	*J H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	70		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	64		36-111
93951-69-0	Fluoranthene-d10 (Surr)	77		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D
Lims ID: 410-45105-B-3-A
Client ID: MW-10D-20210622
Sample Type: Client
Inject. Date: 02-Jul-2021 15:34:03 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-B-3-A
Misc. Info.: 410-0033483-023
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jul-2021 12:56:35 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1642

First Level Reviewer: transuea Date: 02-Jul-2021 16:20:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	92	11072	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	0.000	91	38232	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	15881	0.1598	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	95	24425	0.2500	
* 20 Phenanthrene-d10	188	13.273	13.273	0.000	95	51532	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	96	46556	0.1931	
25 Fluoranthene	202	14.943	14.949	-0.007	97	730	0.002538	M
26 Pyrene	202	15.288	15.288	0.000	96	1431	0.005175	
28 Benzo[a]anthracene	228	17.294	17.294	0.000	100	1003	0.003463	M
* 29 Chrysene-d12	240	17.310	17.310	0.000	55	55849	0.2500	
30 Chrysene	228	17.348	17.355	-0.008	100	1151	0.003769	M
33 Benzo[b]fluoranthene	252	19.166	19.150	0.016	100	1645	0.005030	M
34 Benzo[k]fluoranthene	252	19.204	19.196	0.008	90	792	0.002233	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	98	47014	0.1750	
37 Benzo[a]pyrene	252	19.679	19.679	-0.001	100	1345	0.004258	M
* 38 Perylene-d12	264	19.771	19.772	-0.001	97	70240	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.449	21.427	0.021	97	1293	0.004358	M
42 Benzo[g,h,i]perylene	276	21.873	21.851	0.021	93	1445	0.004105	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

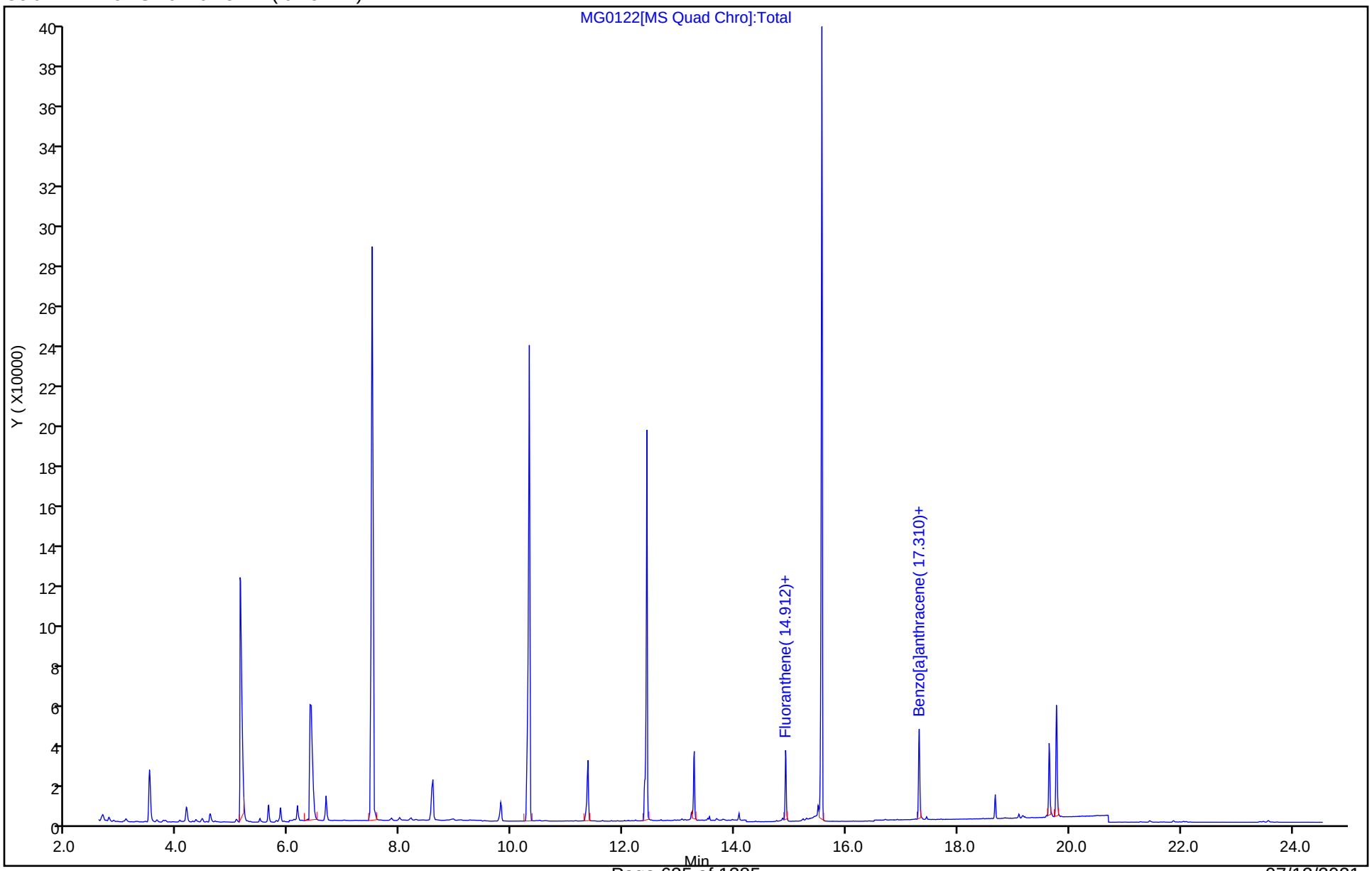
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Jul-2021 12:56:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3	Worklist Smp#:	23
Client ID:	MW-10D-20210622				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

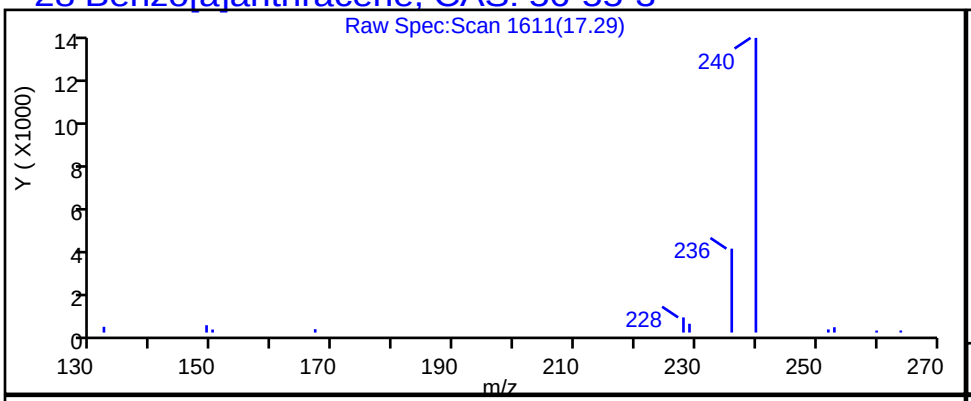
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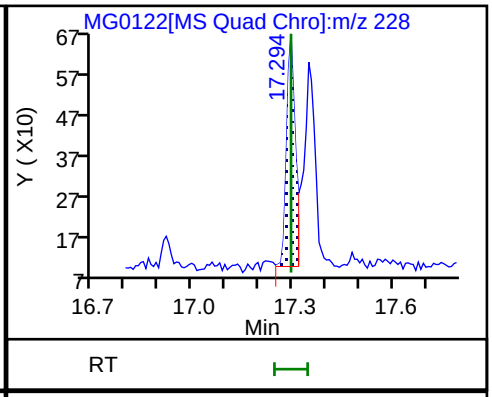


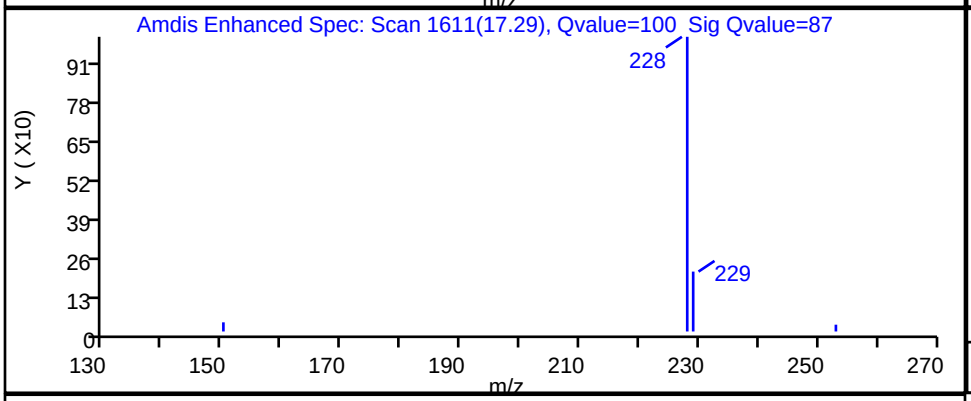
Eurofins Lancaster Laboratories Env, LLC

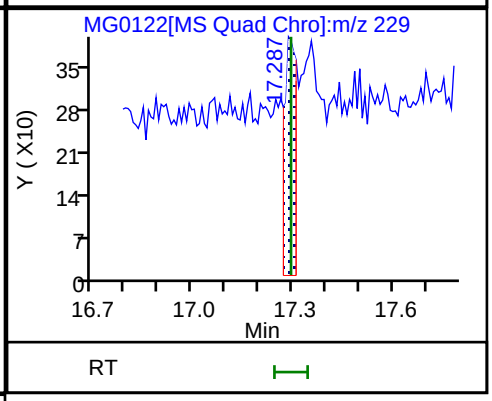
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Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

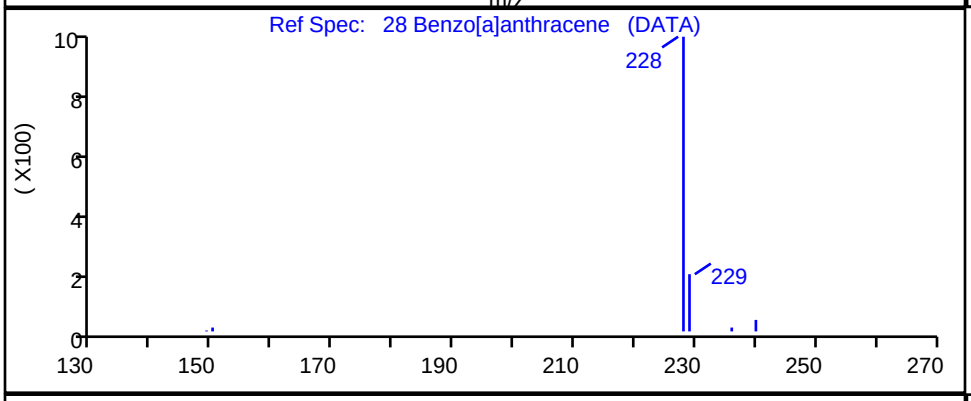
28 Benzo[a]anthracene, CAS: 56-55-3

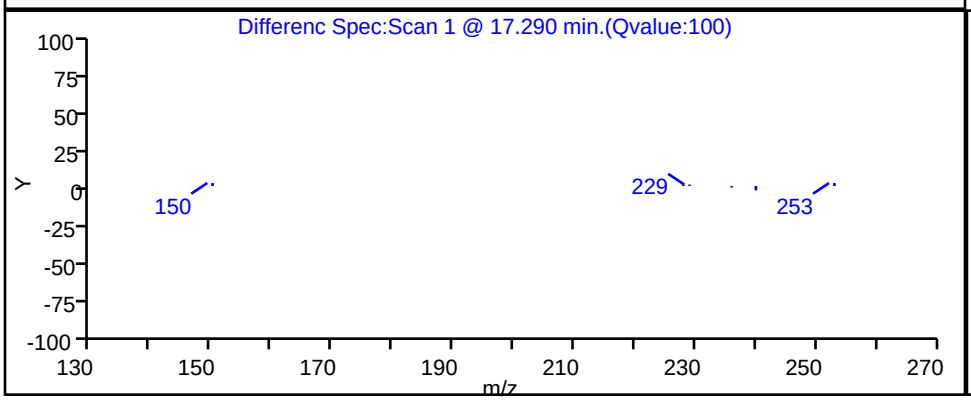


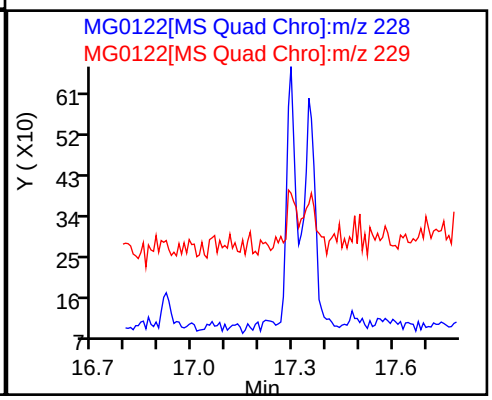








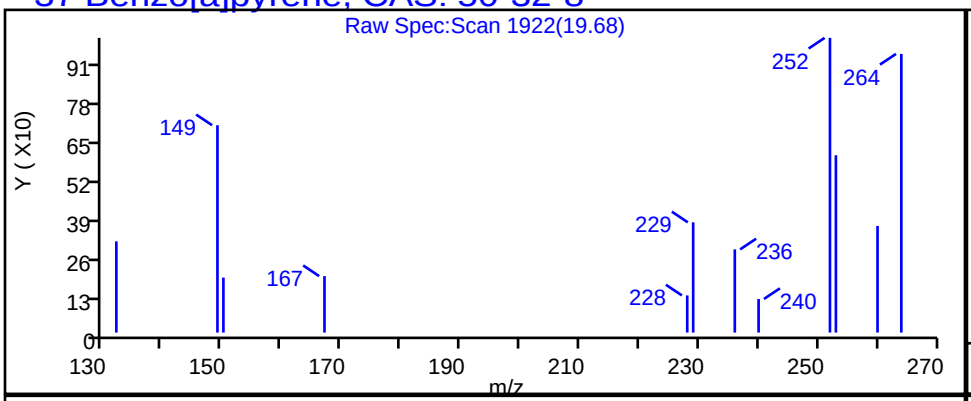


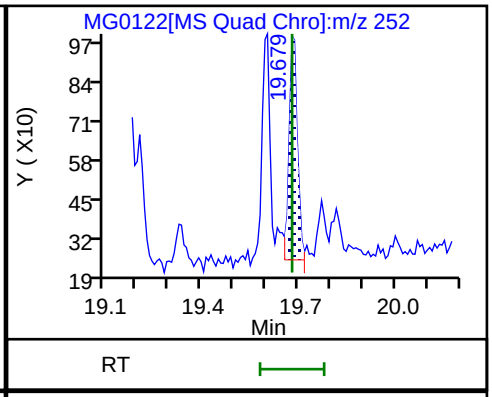


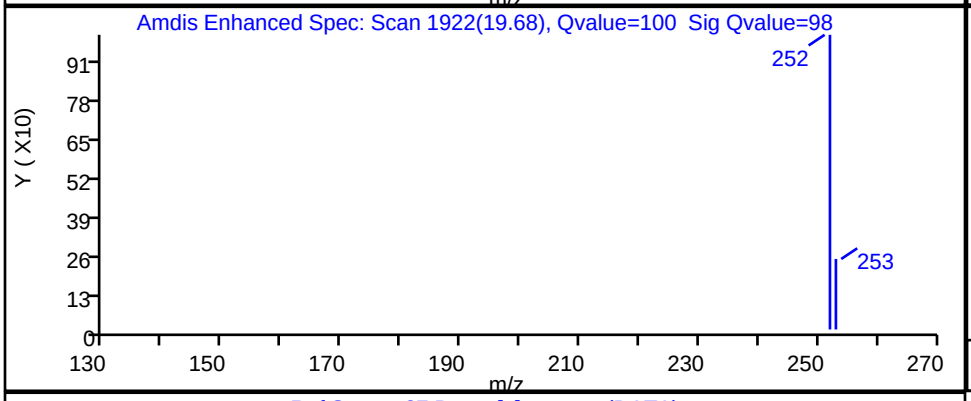
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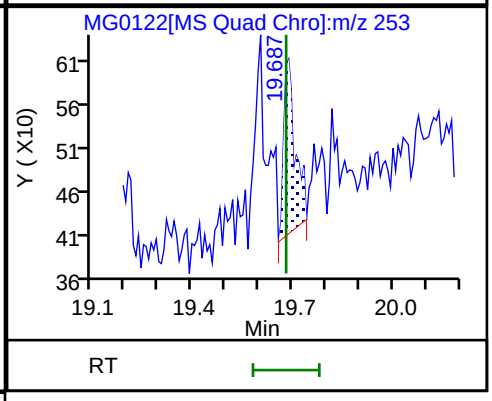
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Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
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Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

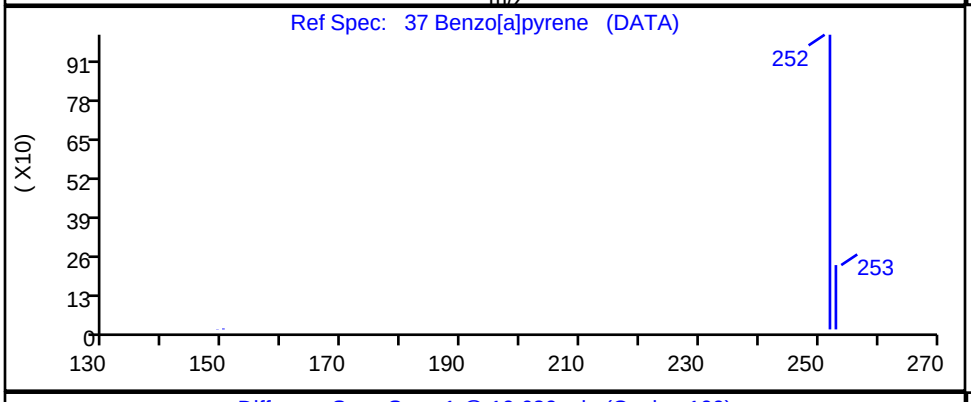
37 Benzo[a]pyrene, CAS: 50-32-8

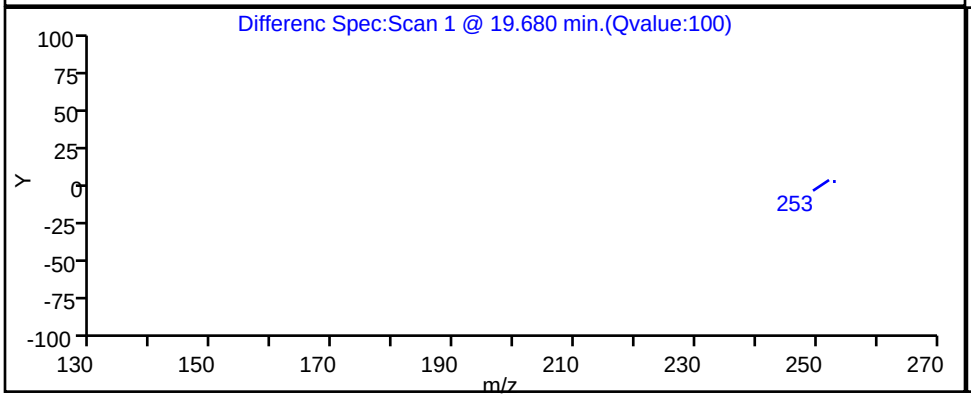


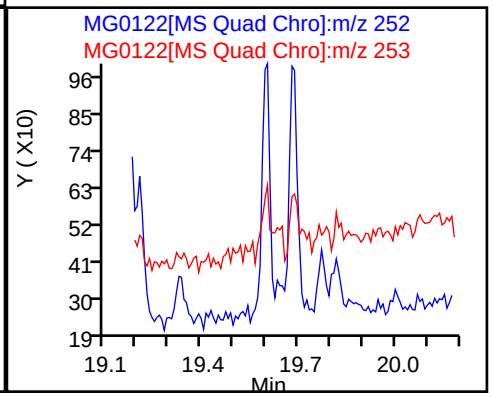












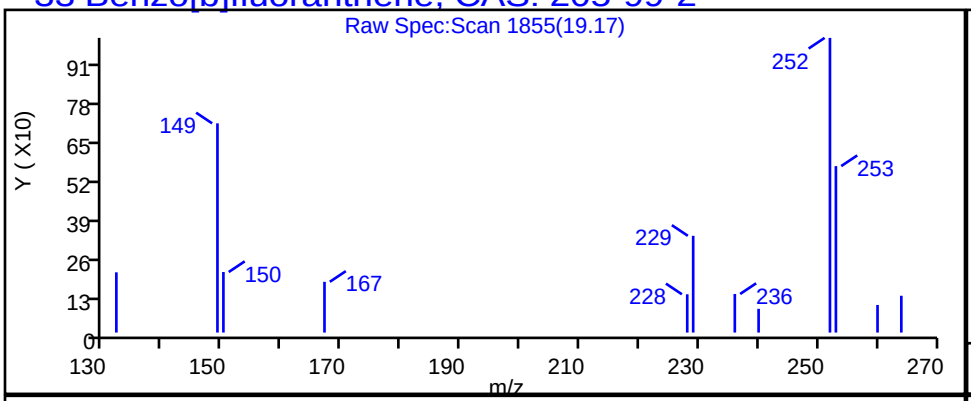
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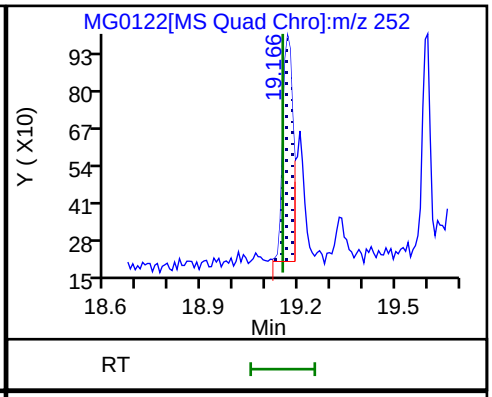
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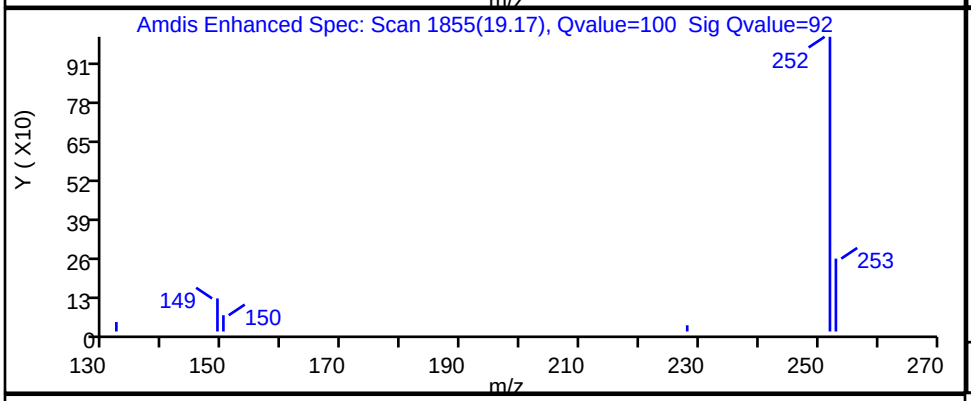
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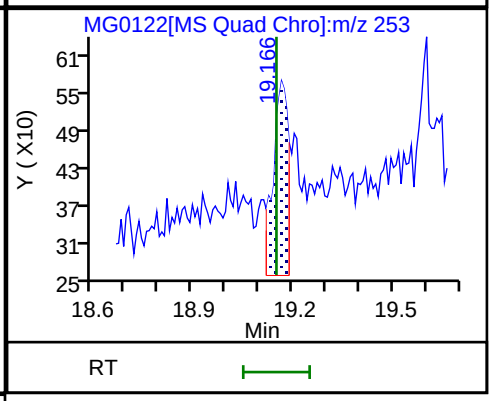
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Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

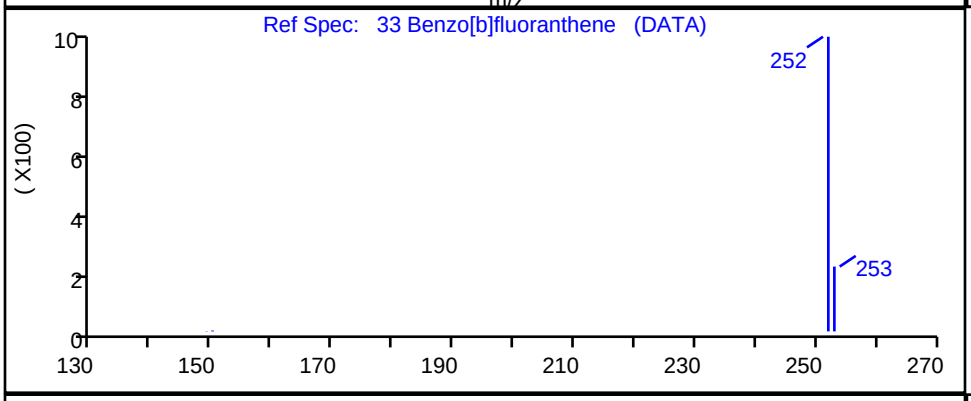
33 Benzo[b]fluoranthene, CAS: 205-99-2

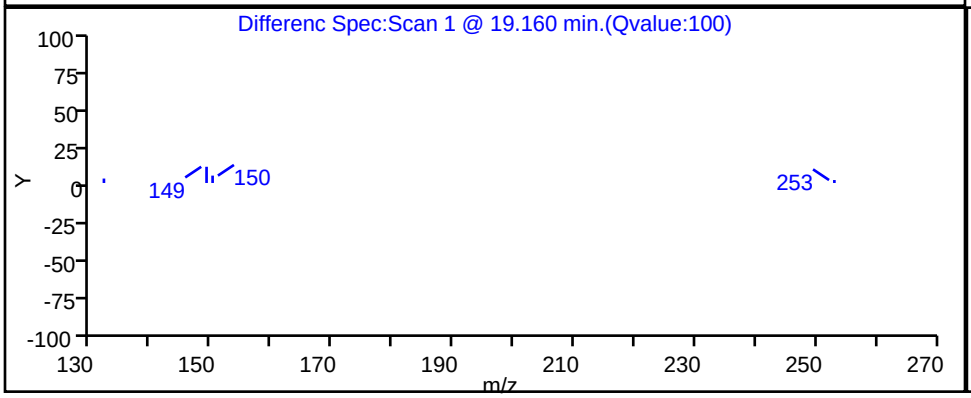


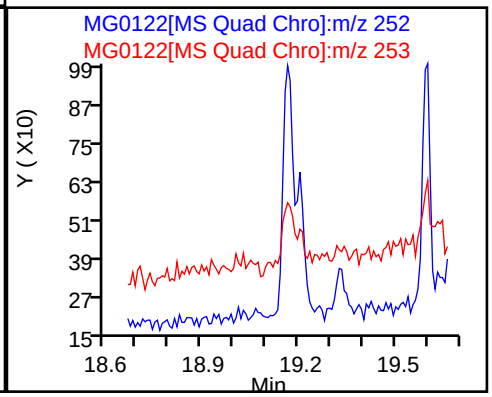








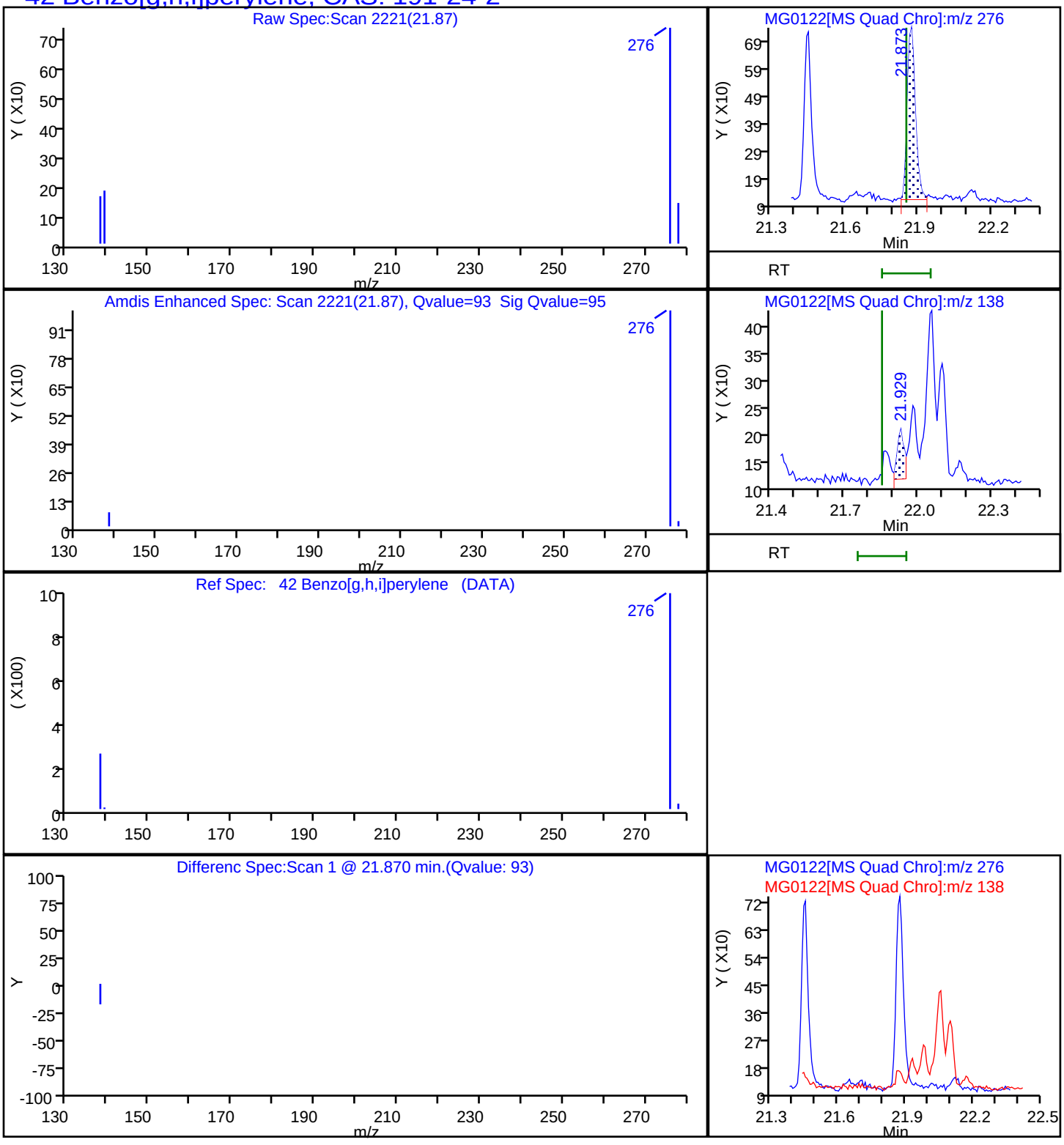




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Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3
Client ID:	MW-10D-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

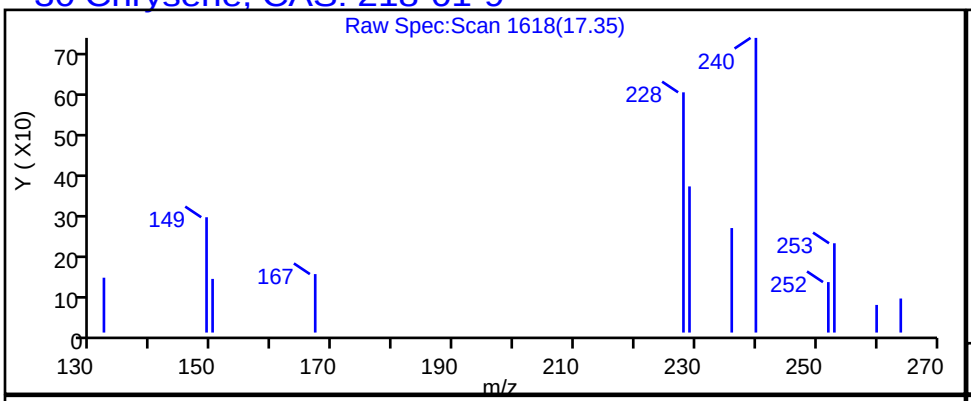
42 Benzo[g,h,i]perylene, CAS: 191-24-2

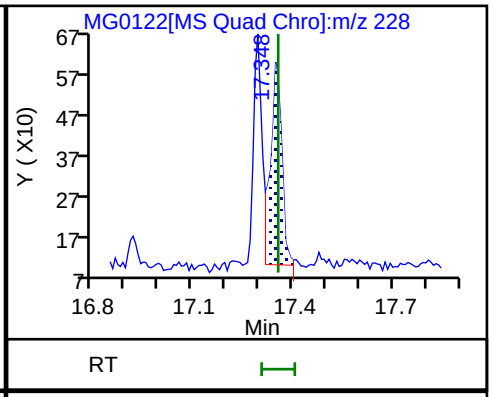


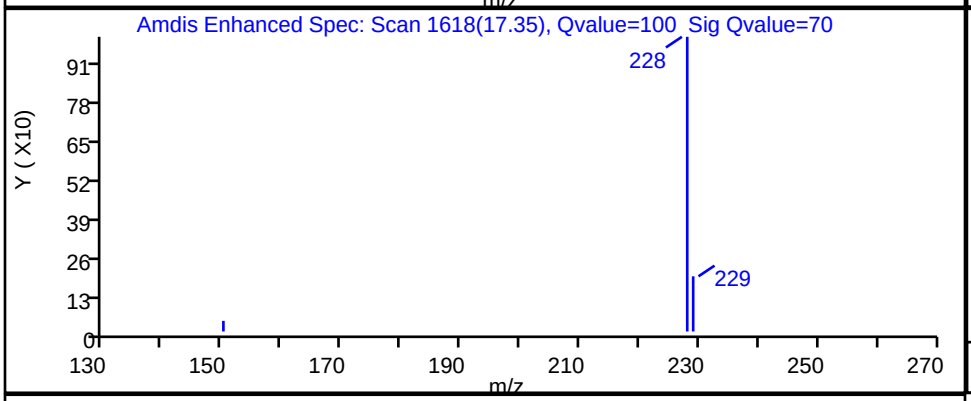
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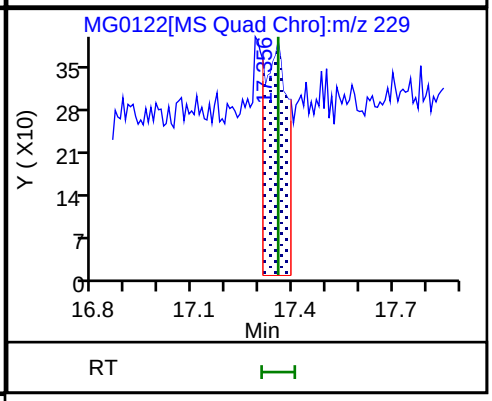
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Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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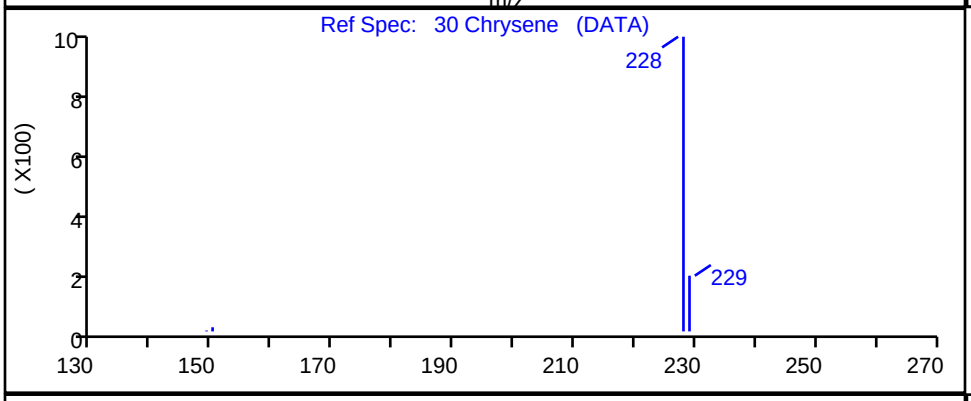
30 Chrysene, CAS: 218-01-9

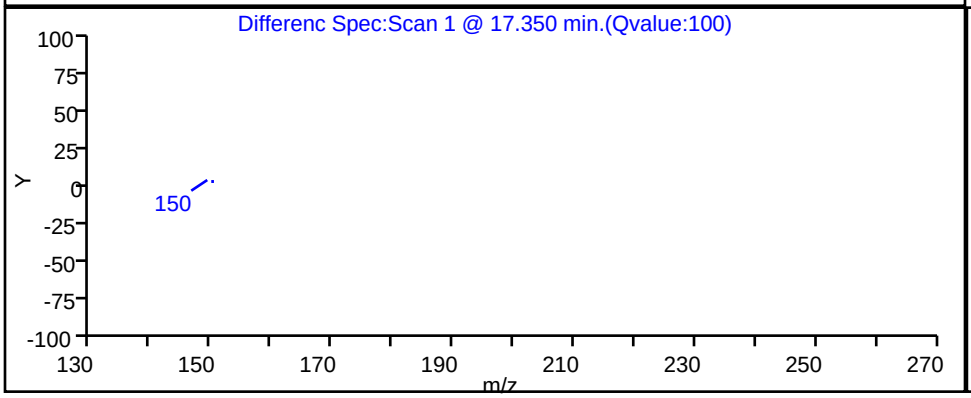


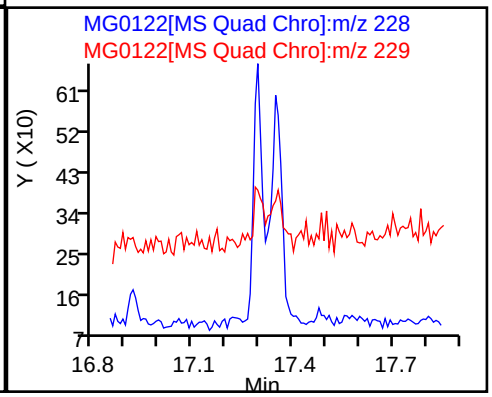












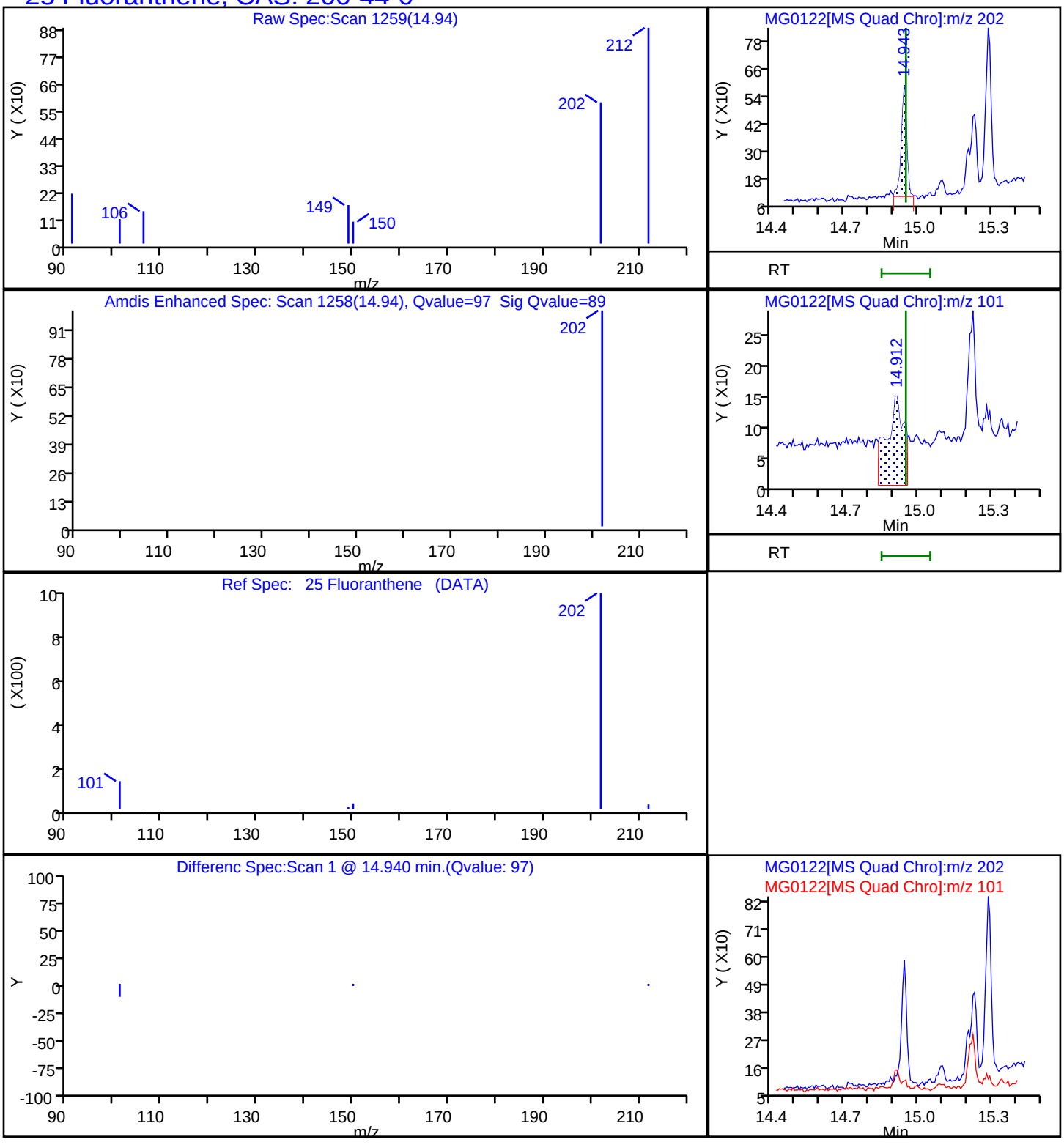
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Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D

Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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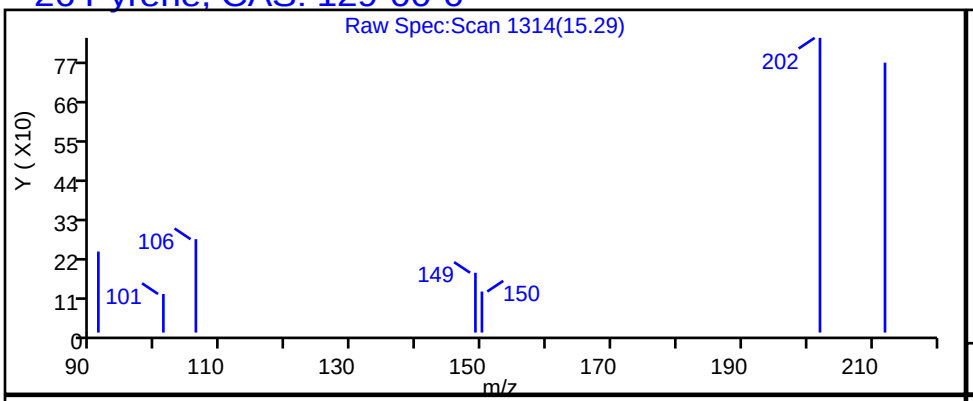
25 Fluoranthene, CAS: 206-44-0

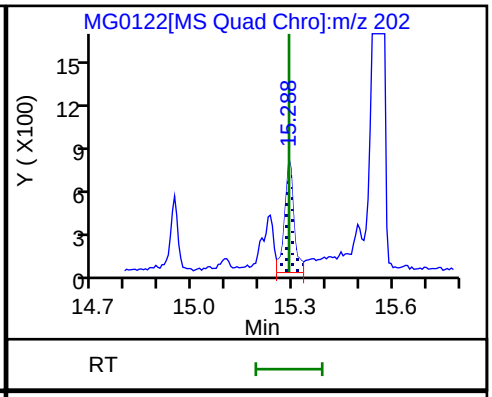


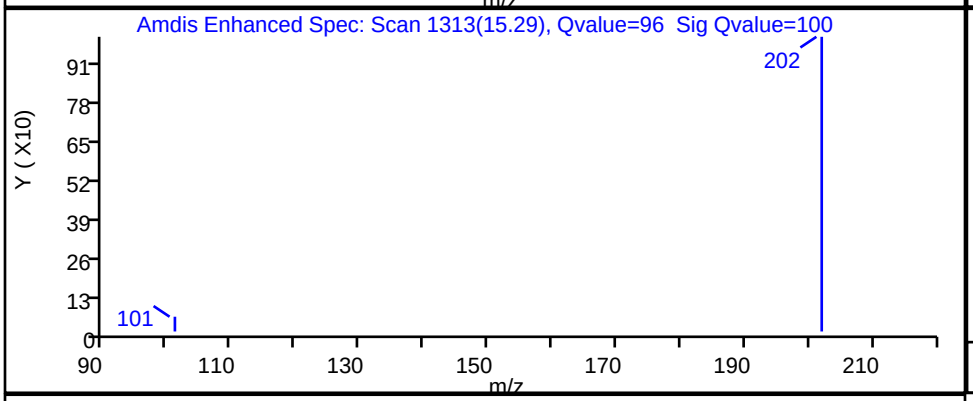
Eurofins Lancaster Laboratories Env, LLC

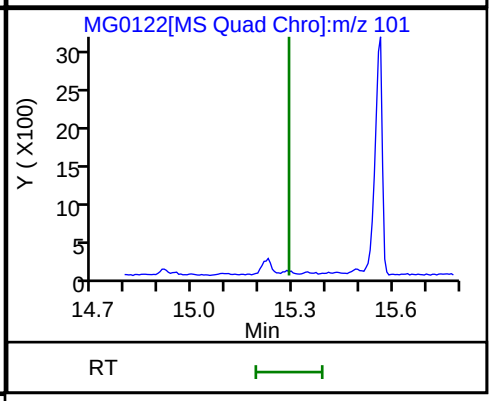
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D		
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3
Client ID:	MW-10D-20210622		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

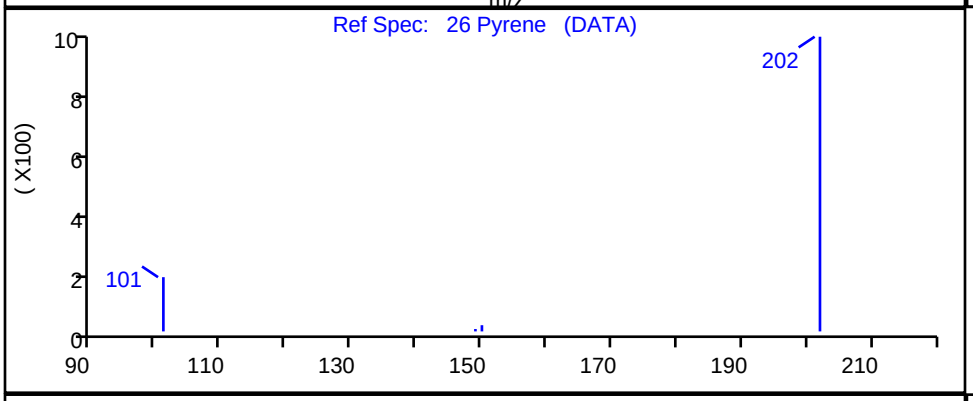
26 Pyrene, CAS: 129-00-0

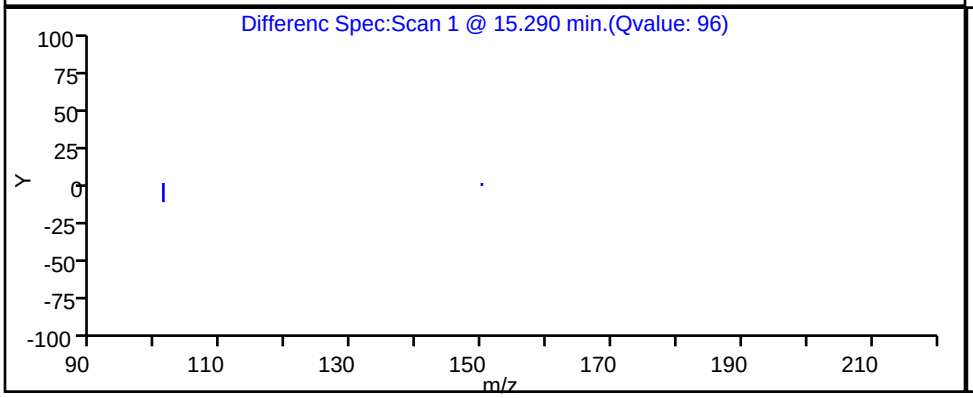


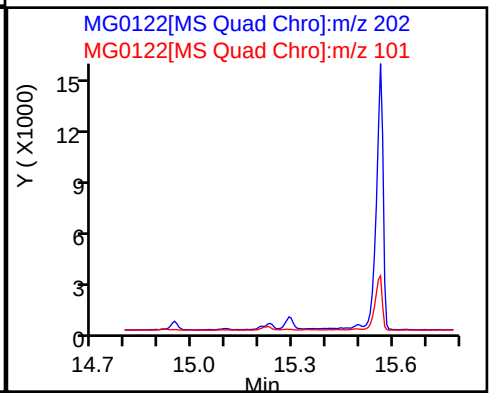












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

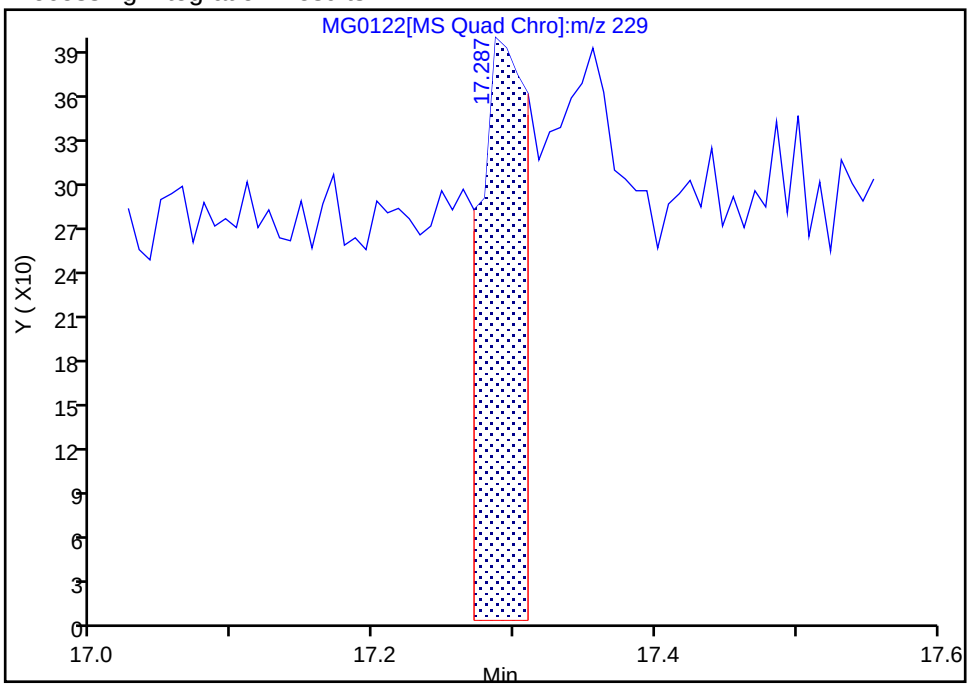
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 2

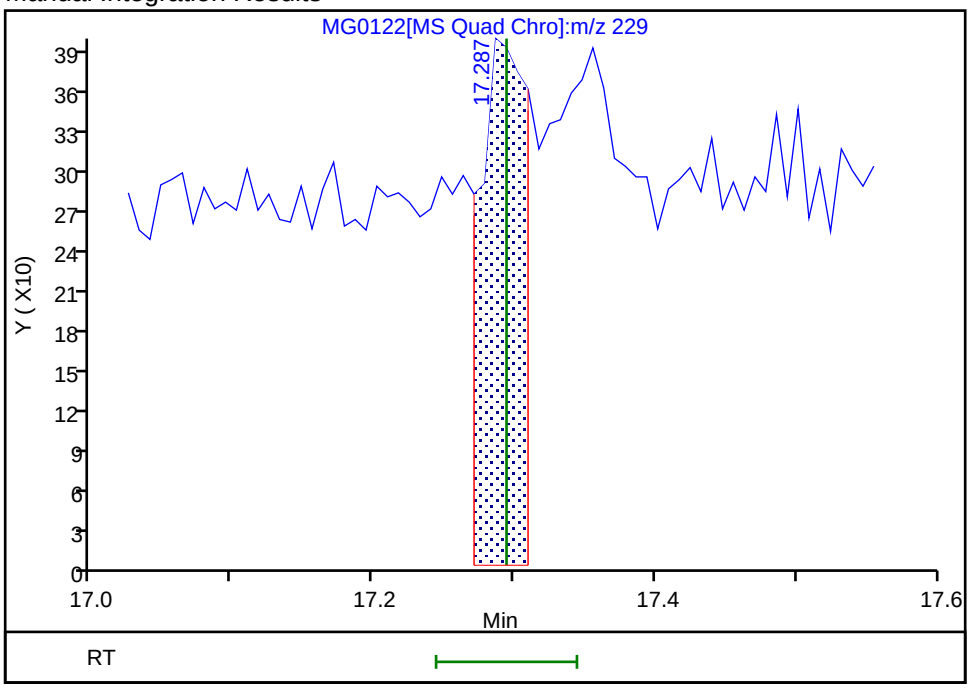
Processing Integration Results

RT: 17.29
Area: 810
Amount: 0.004792
Amount Units: ug/ml



Manual Integration Results

RT: 17.29
Area: 810
Amount: 0.003463
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:19:28

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

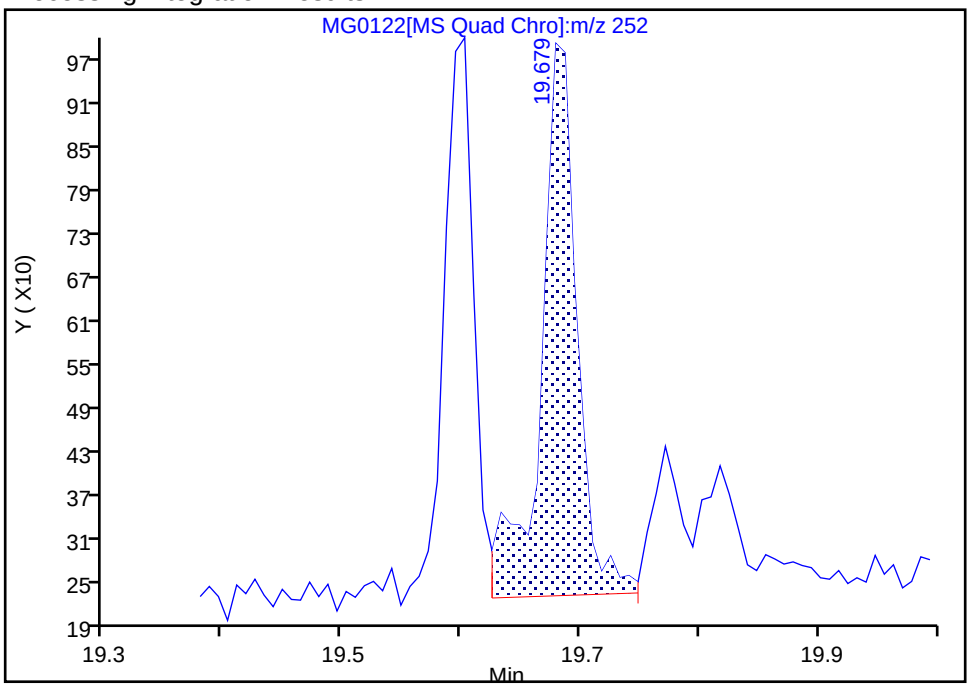
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

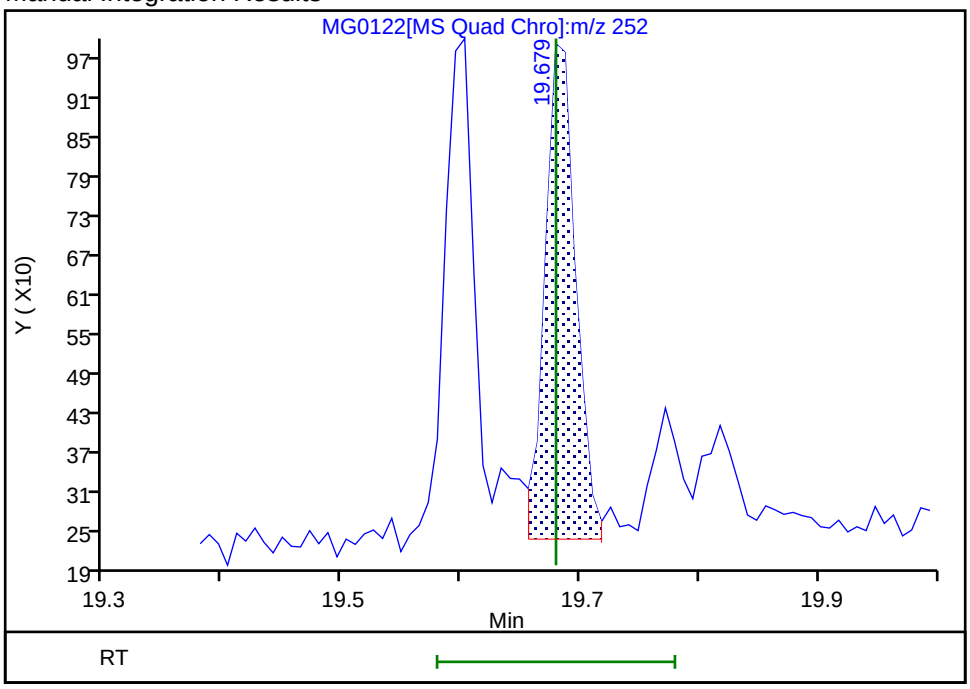
Processing Integration Results

RT: 19.68
Area: 1602
Amount: 0.005071
Amount Units: ug/ml



Manual Integration Results

RT: 19.68
Area: 1345
Amount: 0.004258
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:19:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

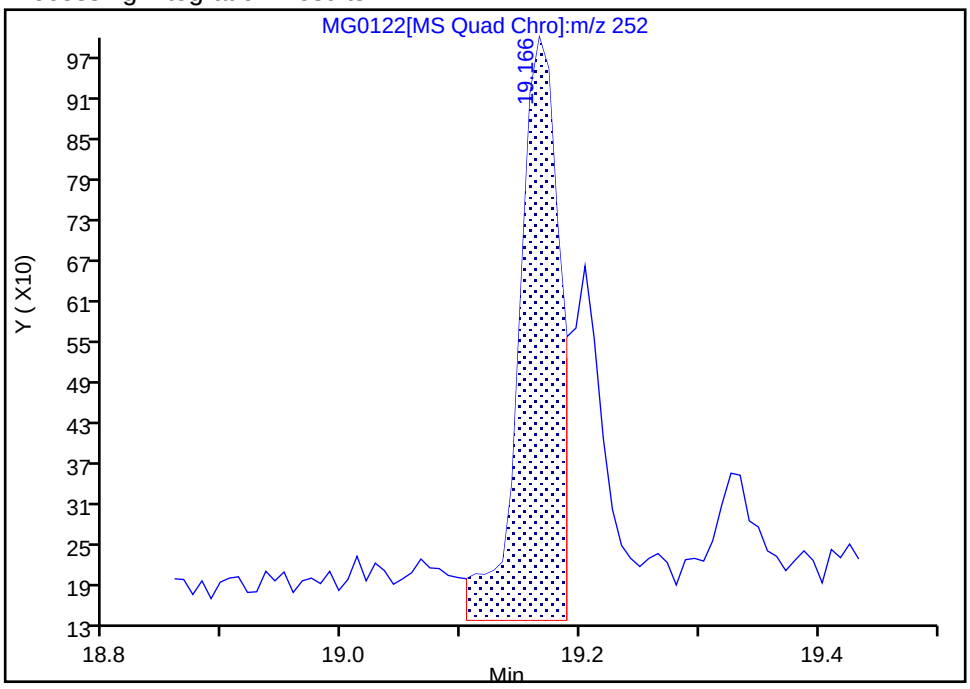
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Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

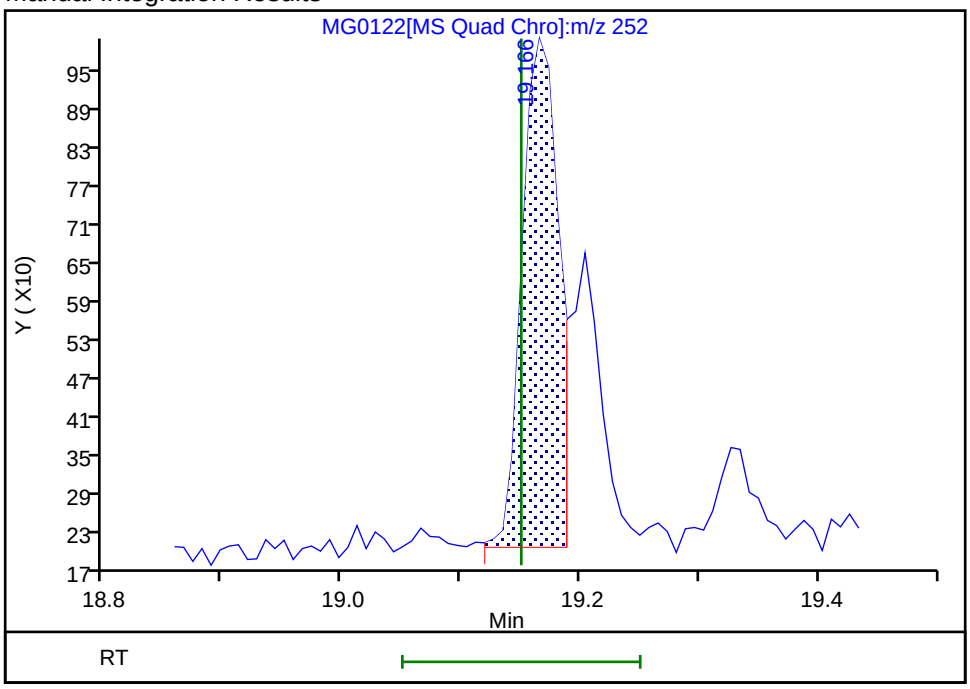
Processing Integration Results

RT: 19.17
Area: 1954
Amount: 0.005974
Amount Units: ug/ml



Manual Integration Results

RT: 19.17
Area: 1645
Amount: 0.005030
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:19:37

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

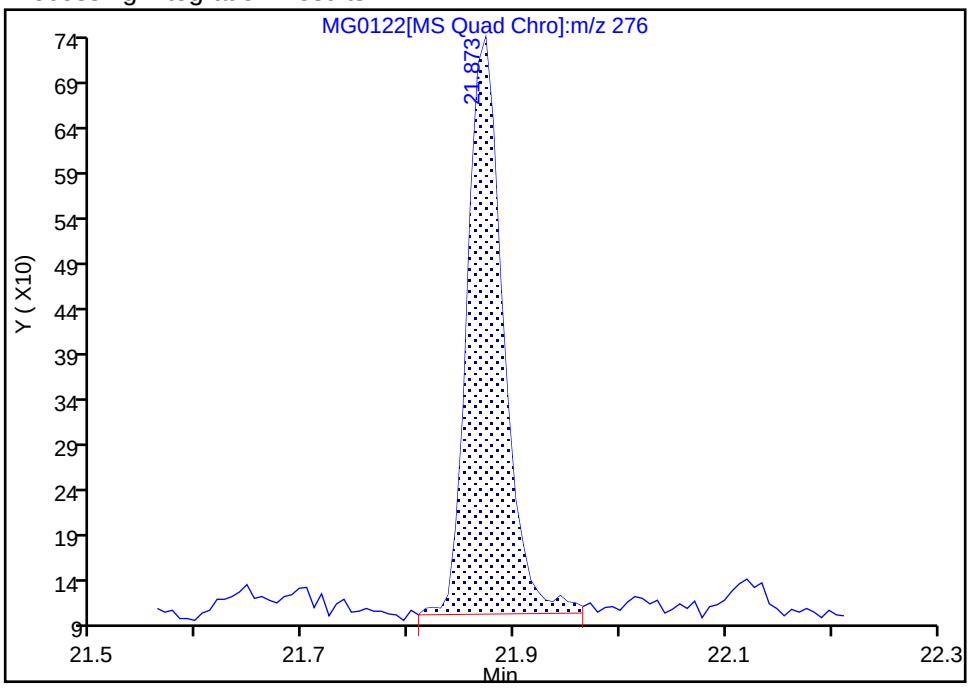
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

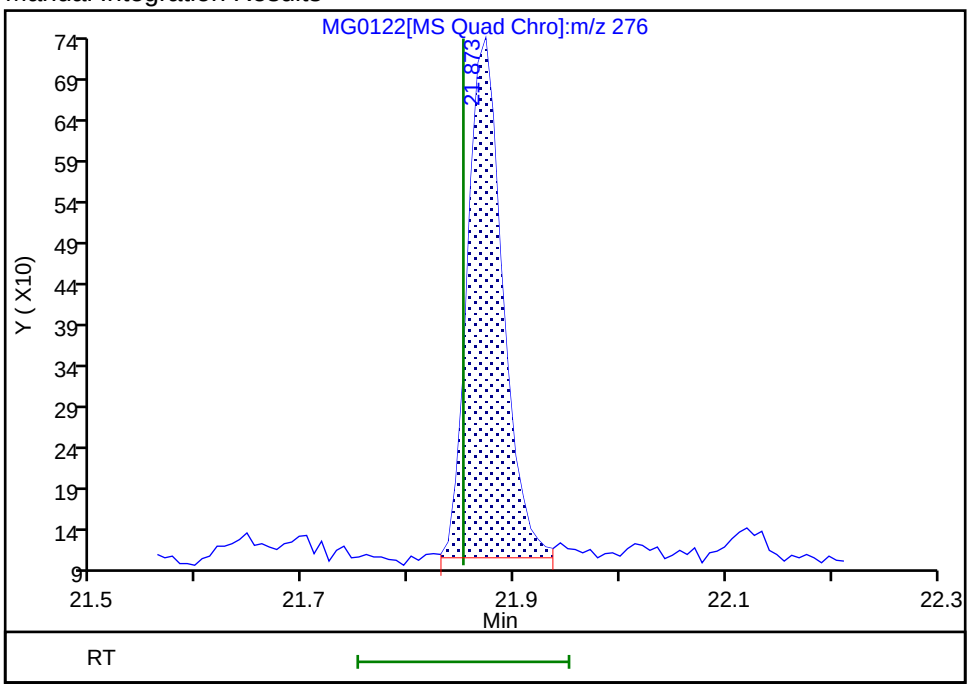
Processing Integration Results

RT: 21.87
Area: 1488
Amount: 0.004227
Amount Units: ug/ml



Manual Integration Results

RT: 21.87
Area: 1445
Amount: 0.004105
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:20:13
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

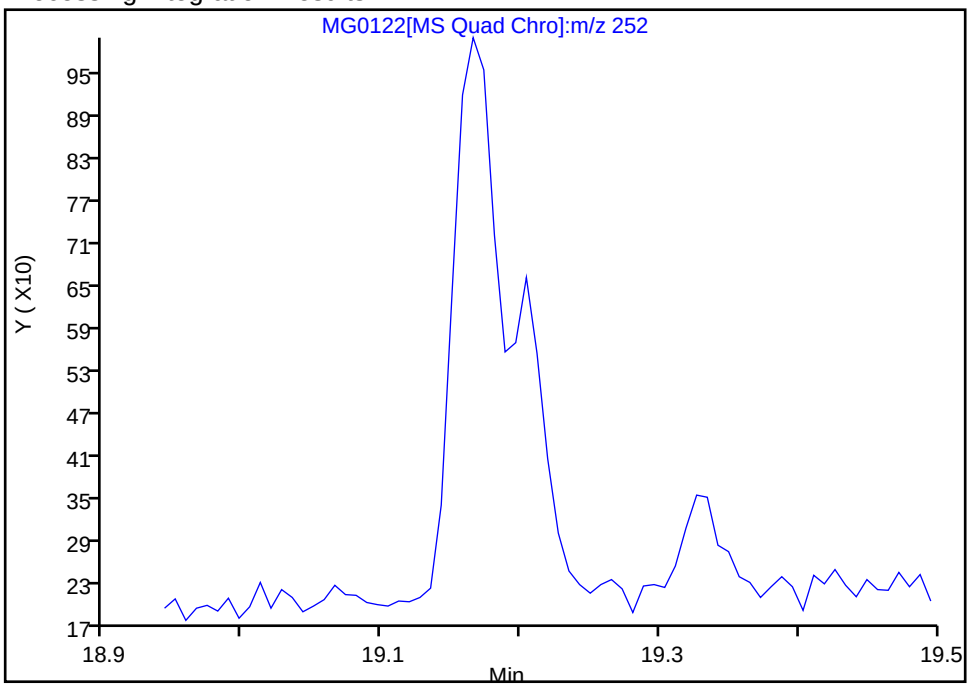
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

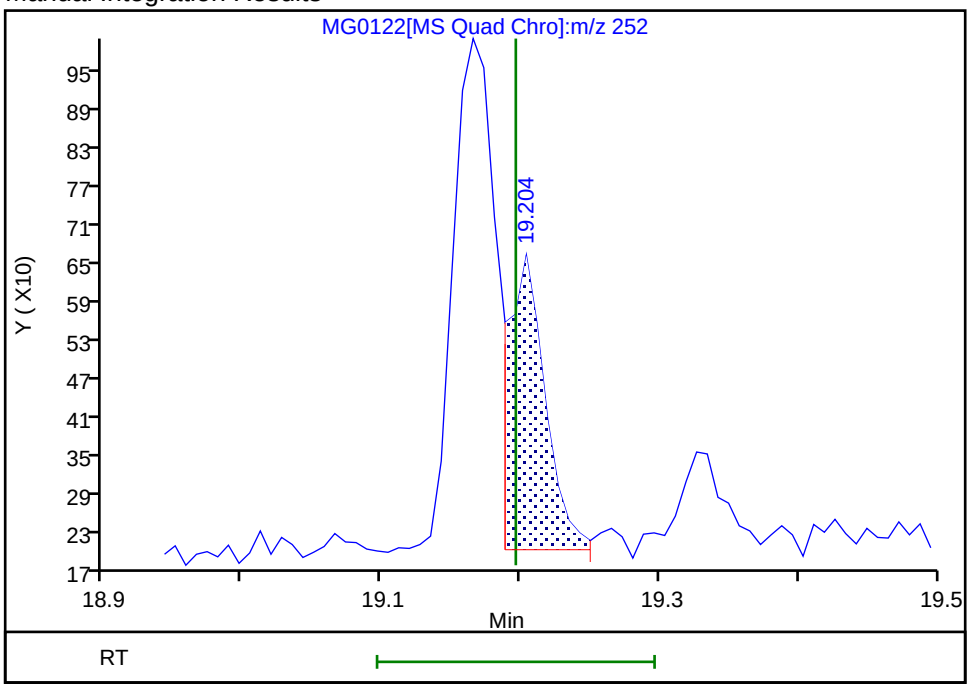
Not Detected
Expected RT: 19.20

Processing Integration Results



Manual Integration Results

RT: 19.20
Area: 792
Amount: 0.002233
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:19:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

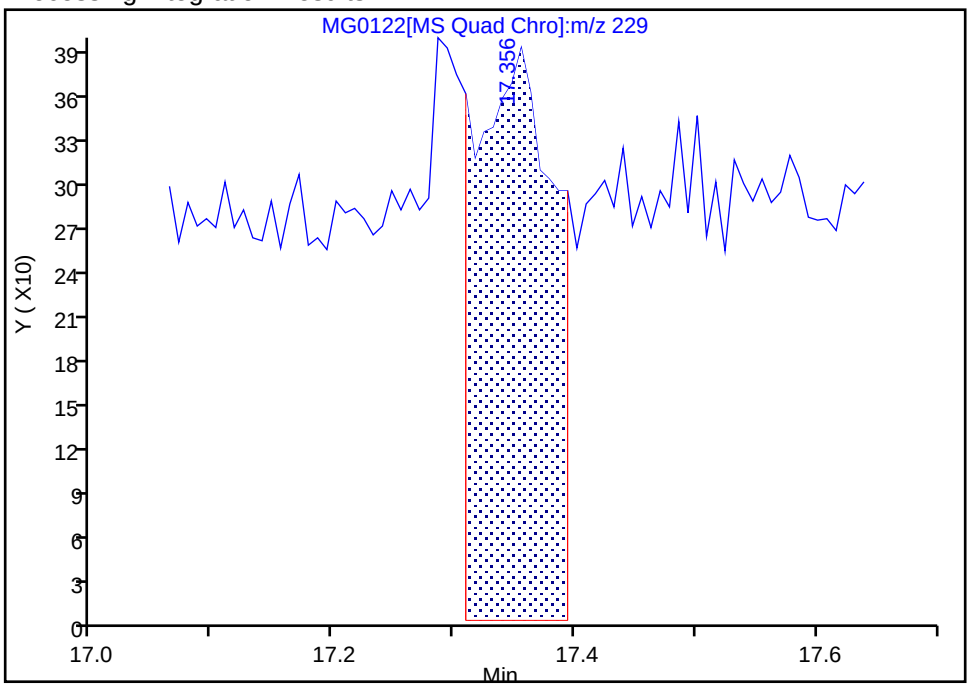
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 2

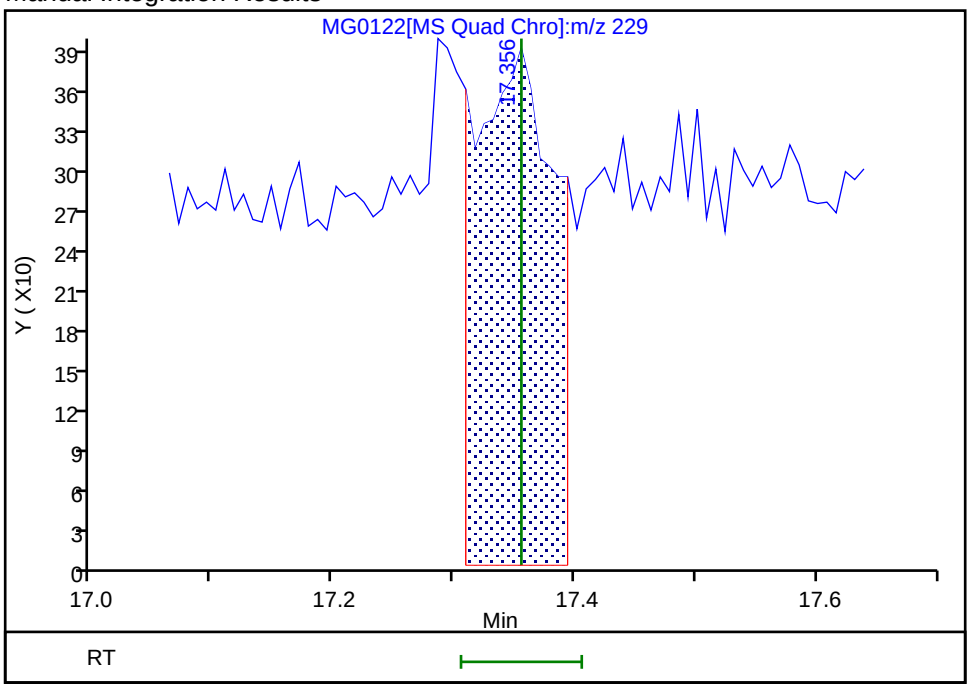
Processing Integration Results

RT: 17.36
Area: 1689
Amount: 0.005377
Amount Units: ug/ml



Manual Integration Results

RT: 17.36
Area: 1689
Amount: 0.003769
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:19:26

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

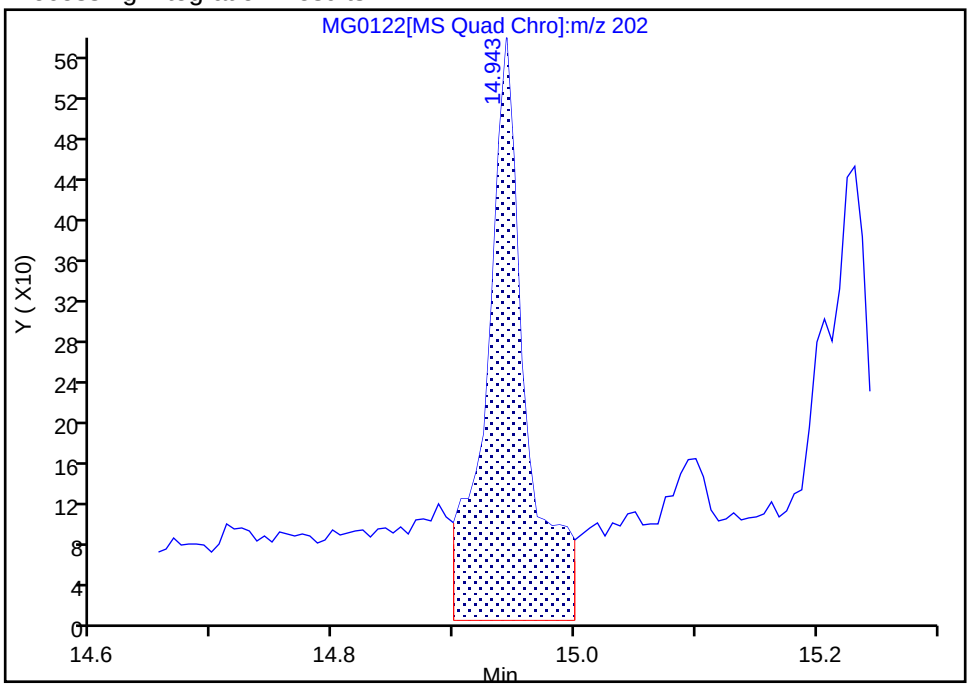
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

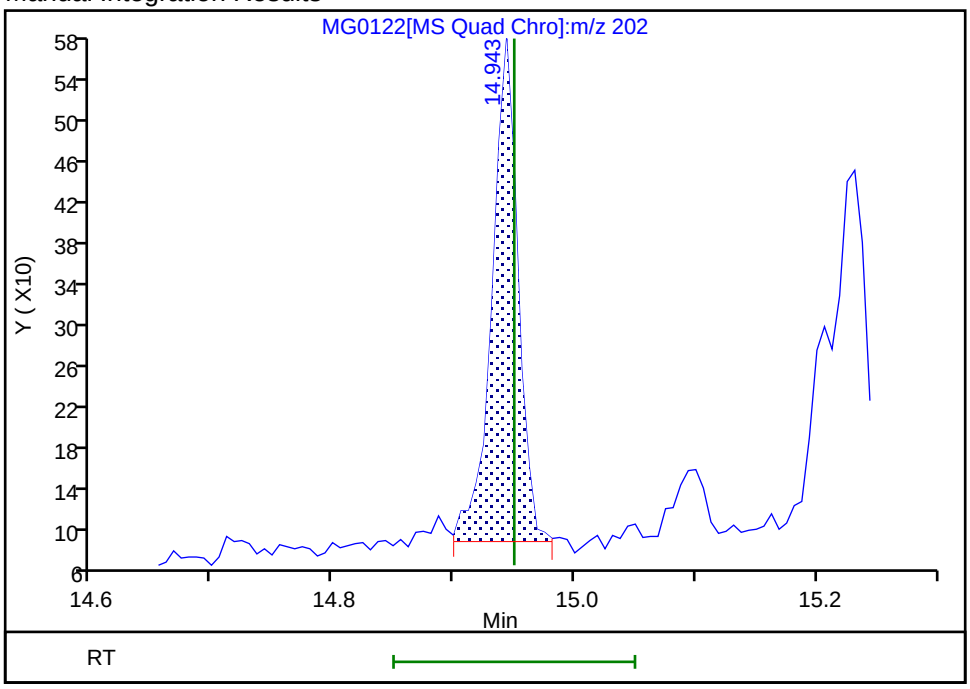
Processing Integration Results

RT: 14.94
Area: 1278
Amount: 0.004442
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 730
Amount: 0.002538
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:18:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

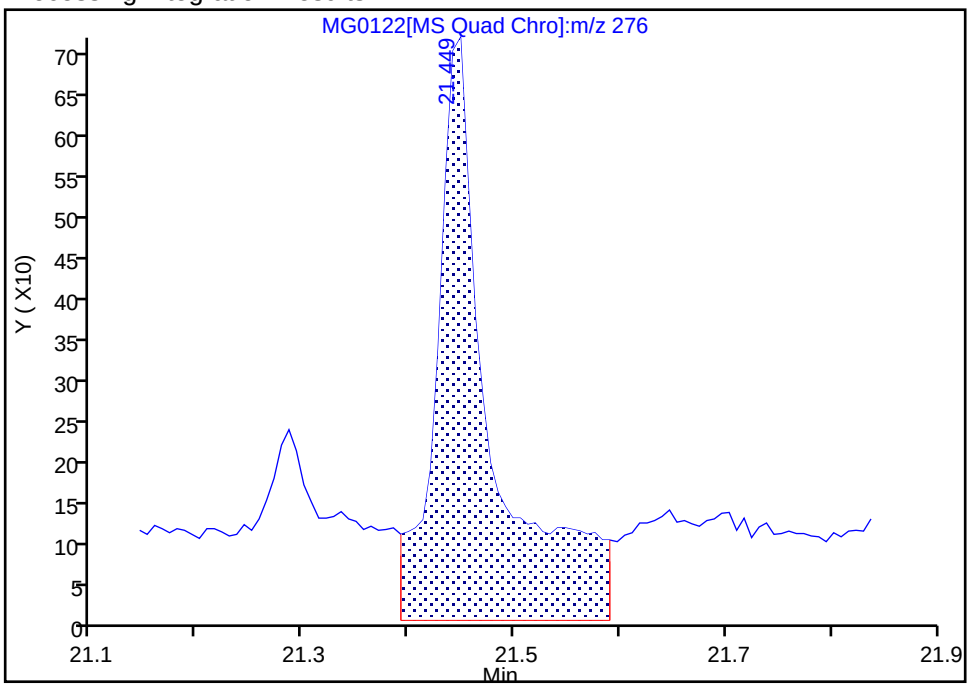
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0122.D				
Injection Date:	02-Jul-2021 15:34:03	Instrument ID:	HP21585		
Lims ID:	410-45105-B-3-A	Lab Sample ID:	410-45105-3		
Client ID:	MW-10D-20210622				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

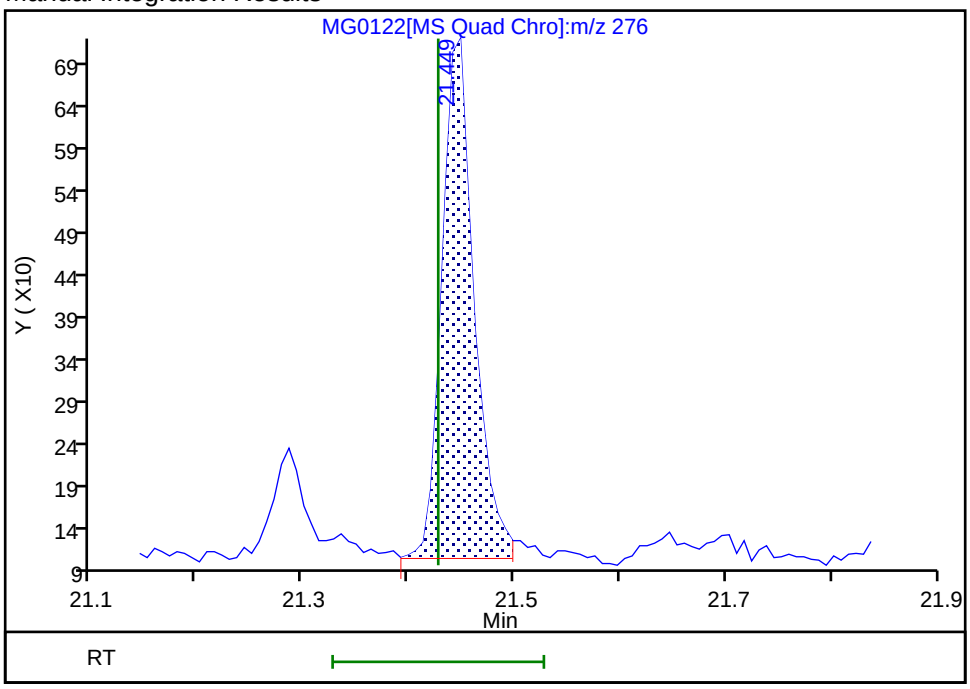
Processing Integration Results

RT: 21.45
Area: 2577
Amount: 0.008686
Amount Units: ug/ml



Manual Integration Results

RT: 21.45
Area: 1293
Amount: 0.004358
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 16:20:05

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8S-20210623 Lab Sample ID: 410-45105-4

Matrix: Groundwater Lab File ID: NF1718.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 09:12

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 239.3(mL) Date Analyzed: 07/01/2021 04:10

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143979 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.20		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND	*+	0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.028	J B	0.052	0.021
206-44-0	Fluoranthene	ND		0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	ND		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	79		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	88		36-111
93951-69-0	Fluoranthene-d10 (Surr)	88		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1718.D
Lims ID: 410-45105-A-4-A
Client ID: MW-8S-20210623
Sample Type: Client
Inject. Date: 01-Jul-2021 04:10:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-4-A
Misc. Info.: 410-0033299-019
Operator ID: art12405 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 07:04:08 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 05:00:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.070	6.078	-0.008	90	217350	0.2500	
* 5 Naphthalene-d8	136	8.044	8.040	0.004	100	776267	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.300	9.296	0.004	98	362824	0.2194	
* 13 Acenaphthene-d10	164	10.882	10.888	-0.006	96	427800	0.2500	
14 Acenaphthene	154	10.933	10.928	0.005	93	91862	0.0482	
* 20 Phenanthrene-d10	188	12.804	12.807	-0.003	100	768975	0.2500	
22 Anthracene	178	12.904	12.900	0.004	95	1065	0.000348	7M
$ 24 Fluoranthene-d10 (Surr)	212	14.469	14.471	-0.002	97	696198	0.2200	
26 Pyrene	202	14.845	14.841	0.004	100	7897	0.002196	
* 29 Chrysene-d12	240	16.884	16.886	-0.002	82	712765	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.239	19.241	-0.001	96	597585	0.1969	
* 38 Perylene-d12	264	19.369	19.371	-0.002	95	822141	0.2500	
41 Dibenz(a,h)anthracene	278	21.073	21.075	-0.002	76	316	0.006759	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

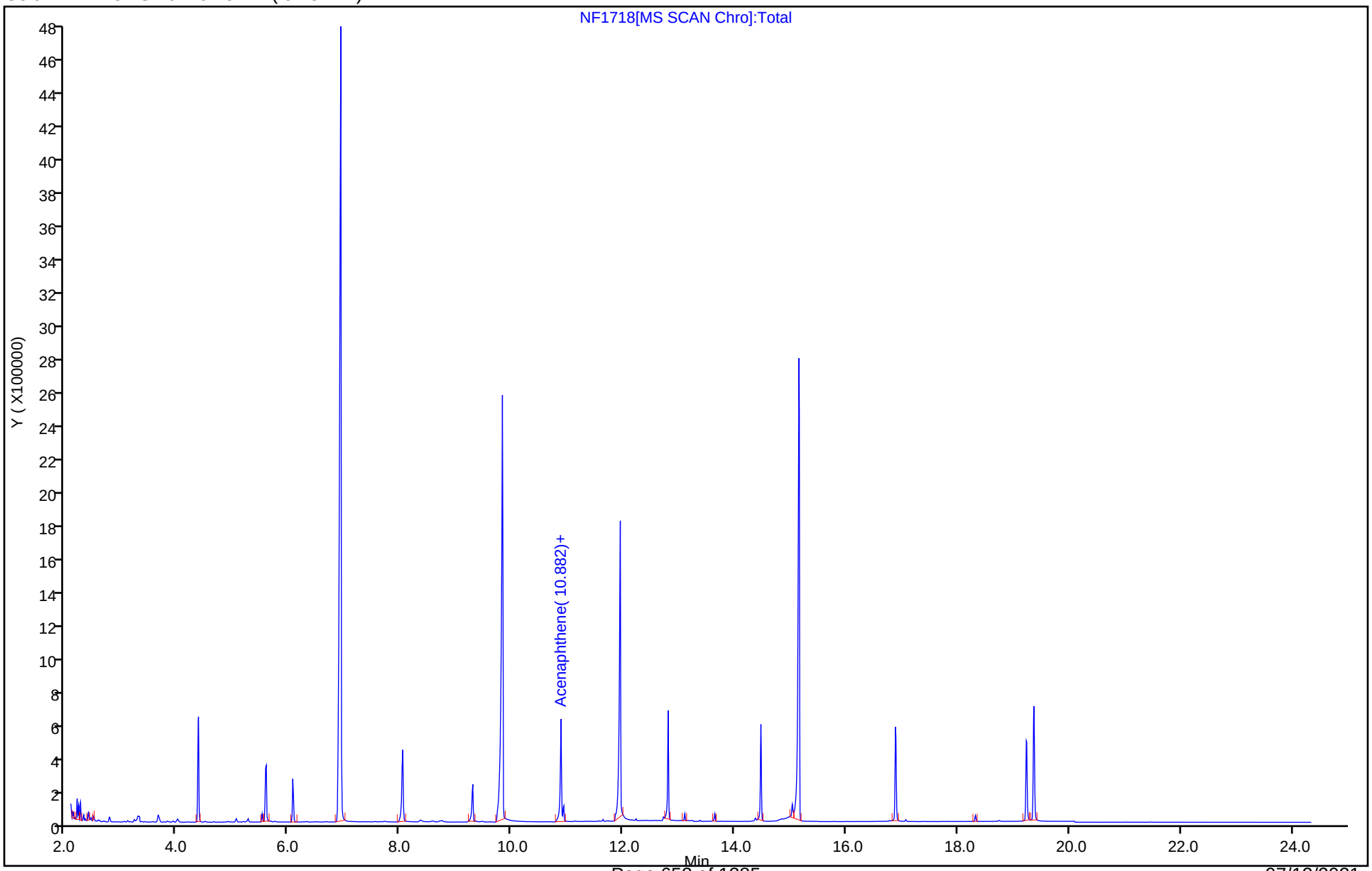
Report Date: 01-Jul-2021 07:04:54 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1718.D

Injection Date:	01-Jul-2021 04:10:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	410-45105-A-4-A	Lab Sample ID:	410-45105-4	Worklist Smp#:	19
Client ID:	MW-8S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



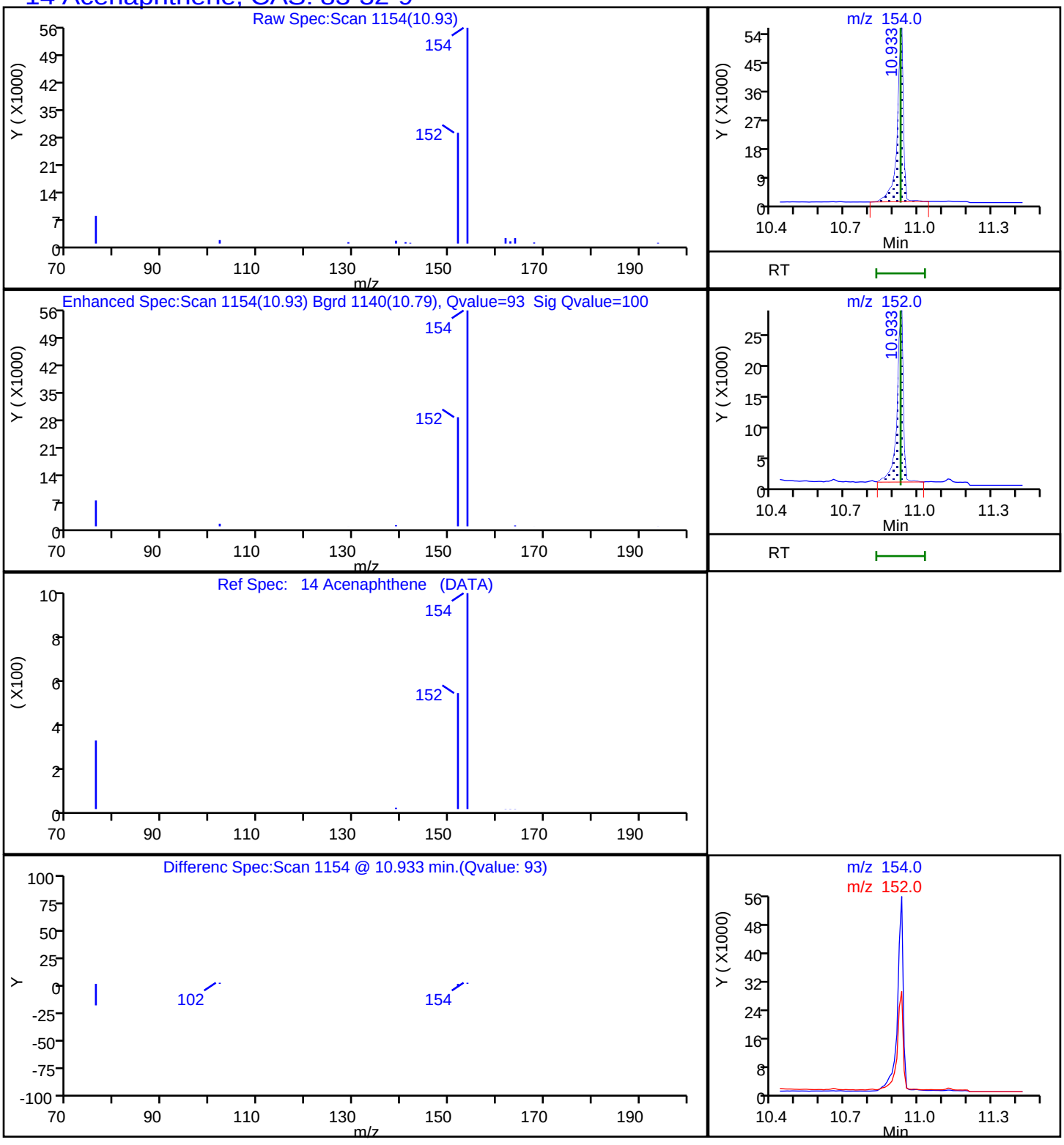
Report Date: 01-Jul-2021 07:04:54 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1718.D

Injection Date:	01-Jul-2021 04:10:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-4-A	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	art12405	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

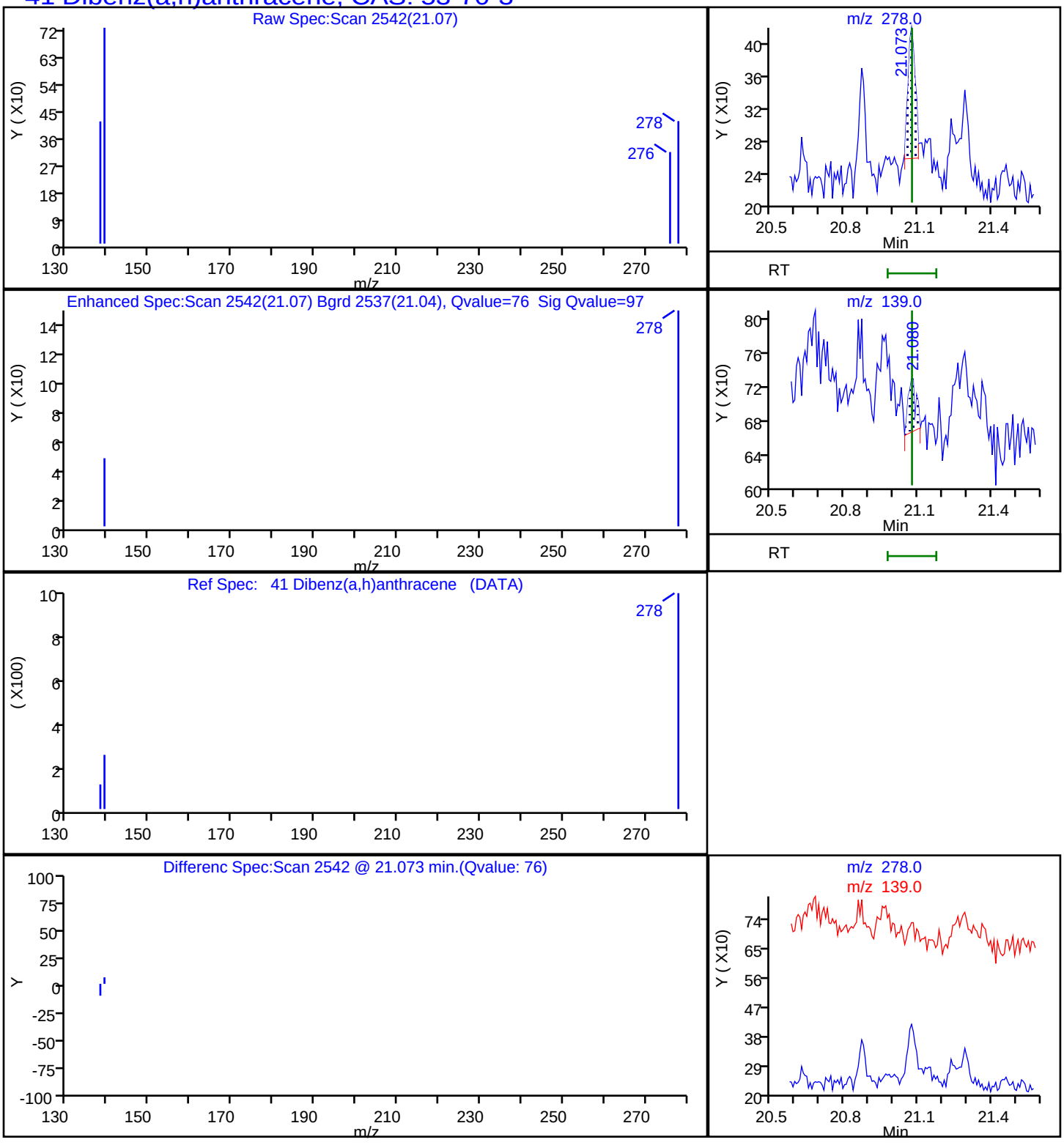
14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1718.D				
Injection Date:	01-Jul-2021 04:10:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-4-A	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	art12405	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

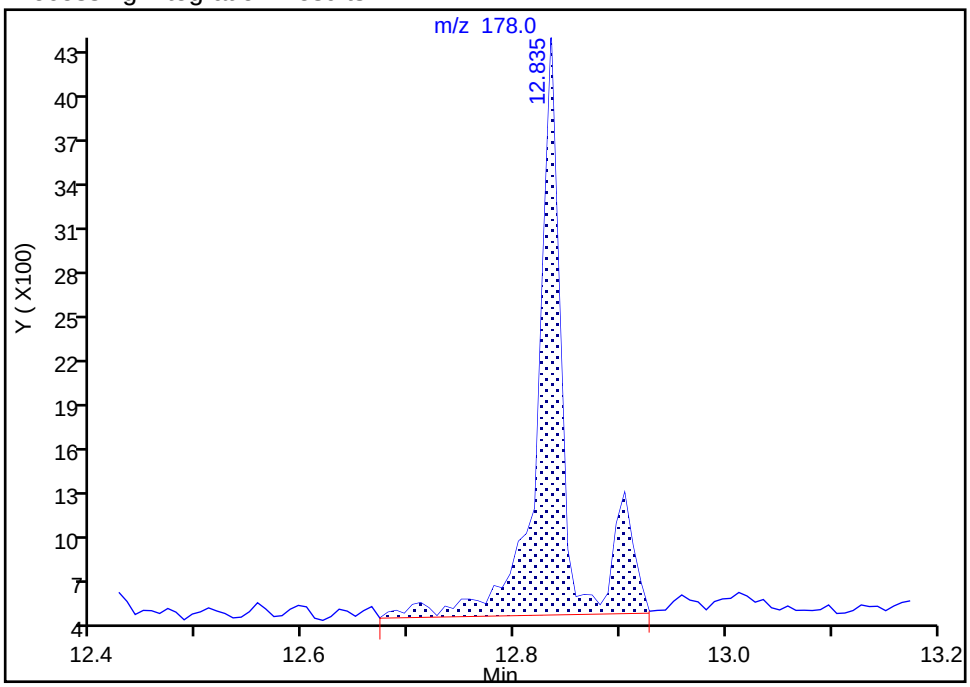
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Lims ID:	410-45105-A-4-A	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	art12405	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

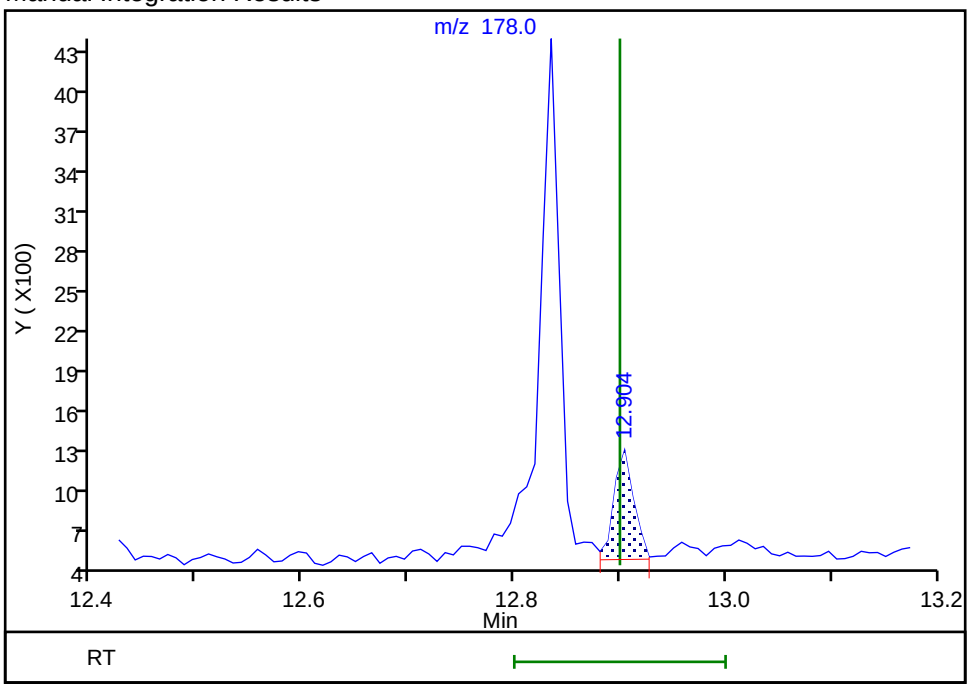
Processing Integration Results

RT: 12.83
Area: 6970
Amount: 0.002276
Amount Units: ug/ml



Manual Integration Results

RT: 12.90
Area: 1065
Amount: 0.000348
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 04:59:59

Audit Action: Manually Integrated Audit Reason: Baseline

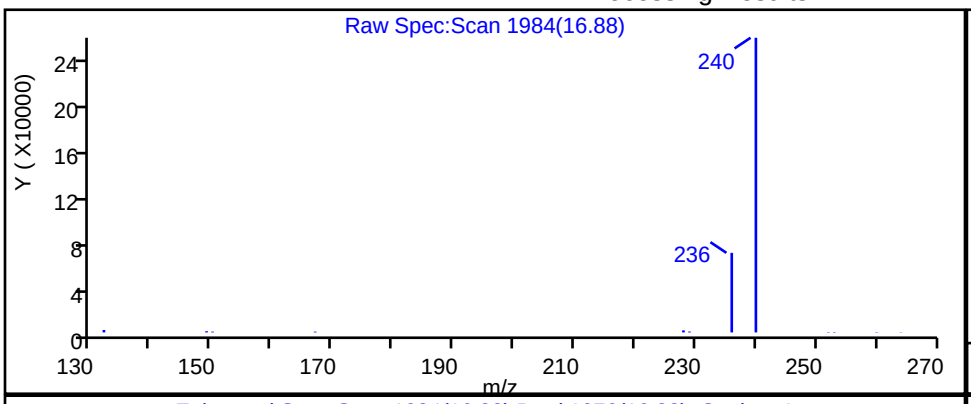
User Disabled Compound Report

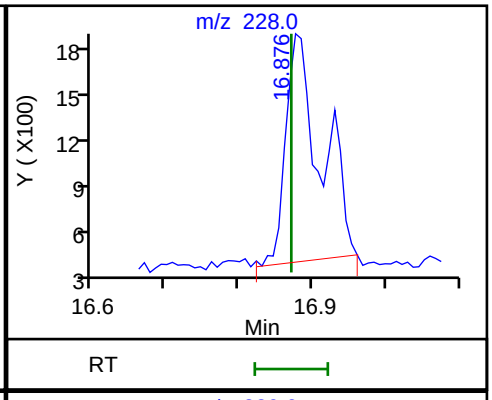
Eurofins Lancaster Laboratories Env, LLC

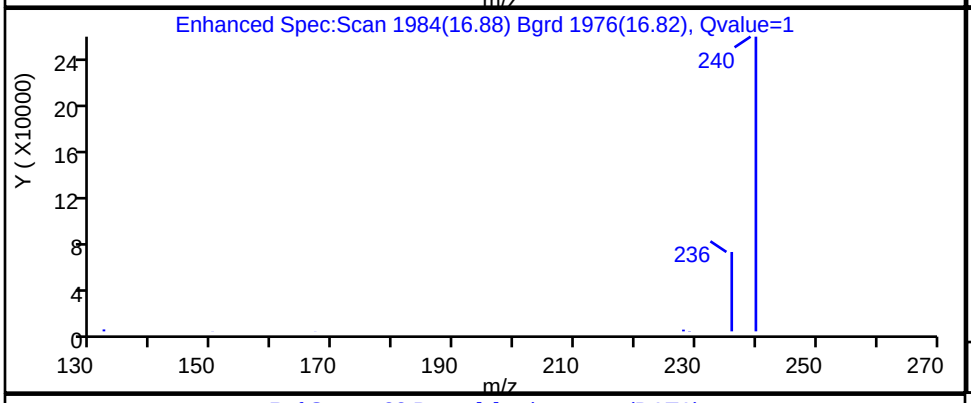
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Injection Date:	01-Jul-2021 04:10:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-4-A	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	art12405	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

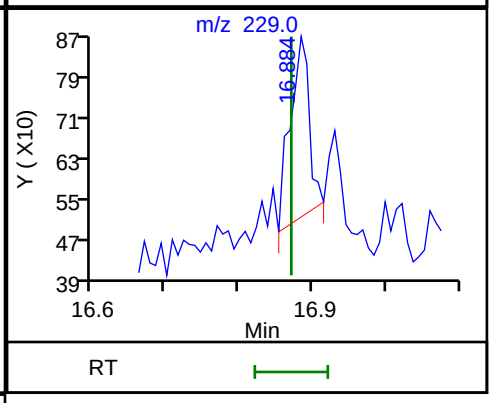
28 Benzo[a]anthracene, CAS: 56-55-3

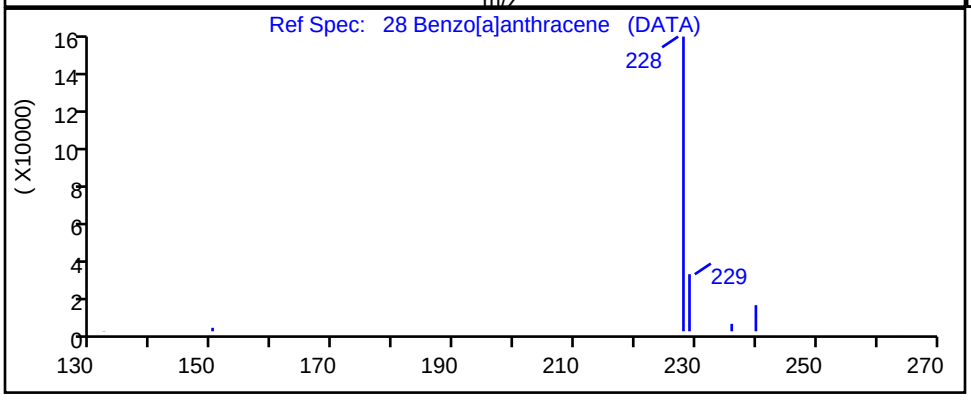
Processing Results











RT	Mass	Response	Amount
16.88	228.00	4792	0.001365
16.88	229.00	627	

Reviewer: gamblerj, 01-Jul-2021 05:00:07

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

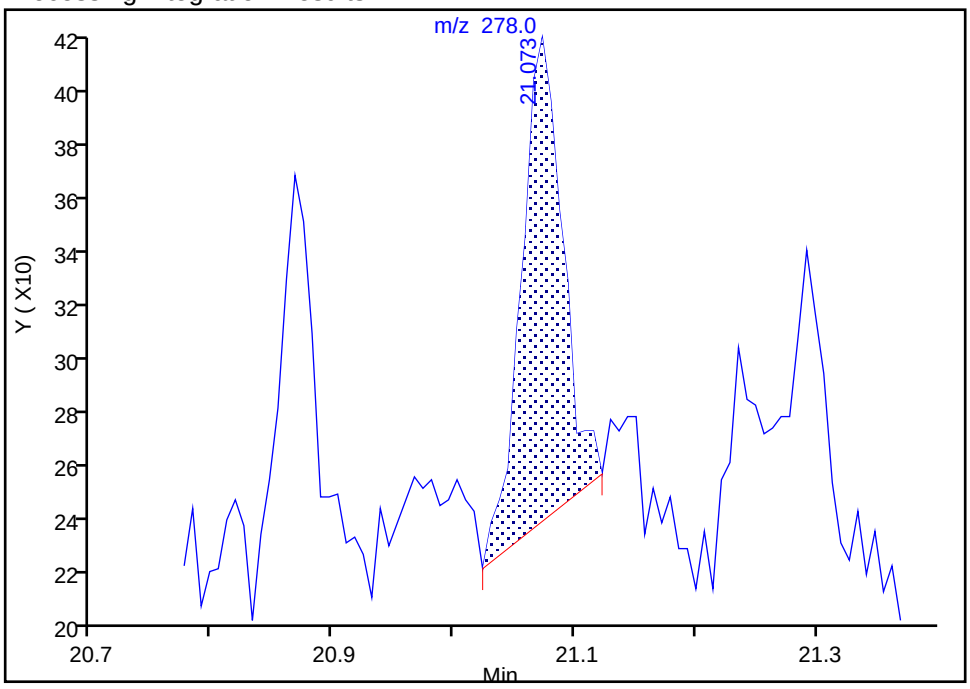
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Injection Date:	01-Jul-2021 04:10:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-4-A	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	art12405	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

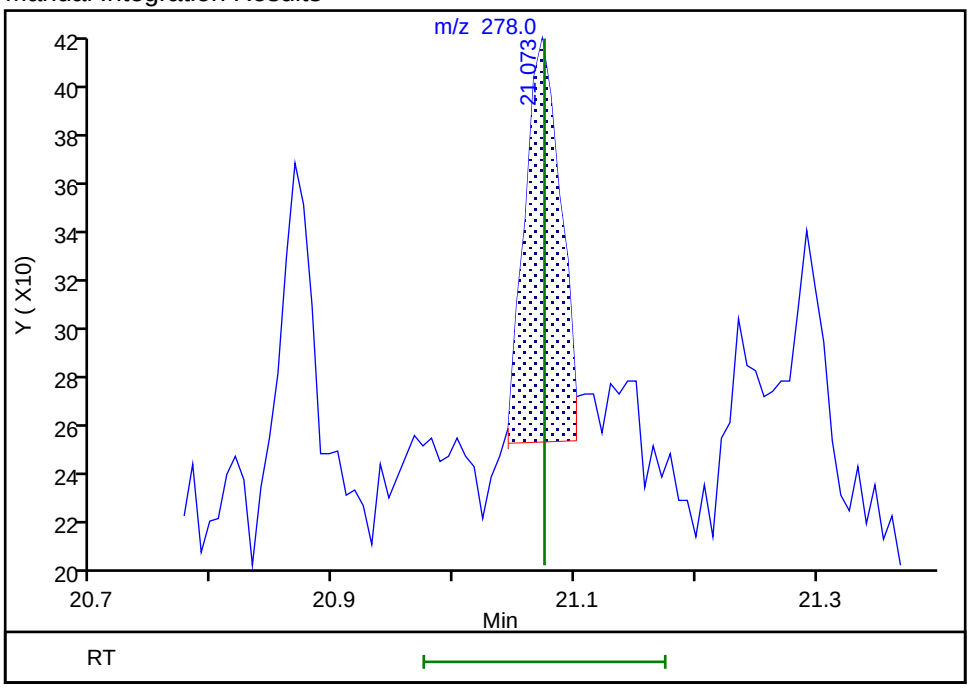
Processing Integration Results

RT: 21.07
Area: 400
Amount: 0.006784
Amount Units: ug/ml



Manual Integration Results

RT: 21.07
Area: 316
Amount: 0.006759
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 05:00:37

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8S-20210623 RE Lab Sample ID: 410-45105-4 RE

Matrix: Groundwater Lab File ID: NG0284.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 09:12

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 245.4(mL) Date Analyzed: 07/05/2021 20:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145058 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.22*	*H*	*0.051*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.051*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.051*	*0.010*
56-55-3	*Benzo[a]anthracene*	*ND*	*H*	*0.051*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*	*H*	*0.051*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*ND*	*H*	*0.051*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
218-01-9	*Chrysene*	*ND*	*H*	*0.051*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.051*	*0.020*
206-44-0	*Fluoranthene*	*ND*	*H*	*0.051*	*0.010*
86-73-7	*Fluorene*	*ND*	*H*	*0.051*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.051*	*0.020*
91-20-3	*Naphthalene*	*ND*	*H*	*0.071*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.071*	*0.031*
129-00-0	*Pyrene*	*ND*	*H*	*0.051*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	88		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	78		36-111
93951-69-0	Fluoranthene-d10 (Surr)	94		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0284.D
Lims ID: 410-45105-B-4-A RE
Client ID: MW-8S-20210623
Sample Type: Client
Inject. Date: 05-Jul-2021 20:16:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-B-4-A
Misc. Info.: 410-0033536-025
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 04:54:35 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: gamblerj Date: 06-Jul-2021 04:48:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.066	6.053	0.013	100	204673	0.2500	
* 5 Naphthalene-d8	136	8.028	8.028	0.000	100	698122	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.286	9.276	0.010	98	288789	0.1942	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	95	382072	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	93	93141	0.0547	
17 Fluorene	166	11.626	11.625	0.000	64	2752	0.001256	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	694123	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.452	0.000	97	669579	0.2344	
25 Fluoranthene	202	14.484	14.477	0.007	94	4723	0.001439	
26 Pyrene	202	14.822	14.822	0.000	91	5861	0.001535	M
* 29 Chrysene-d12	240	16.871	16.863	0.008	81	757011	0.2500	
34 Benzo[k]fluoranthene	252	18.773	18.773	0.008	67	1721	0.000382	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.218	19.217	0.001	96	774894	0.2192	
* 38 Perylene-d12	264	19.348	19.348	0.000	96	957803	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

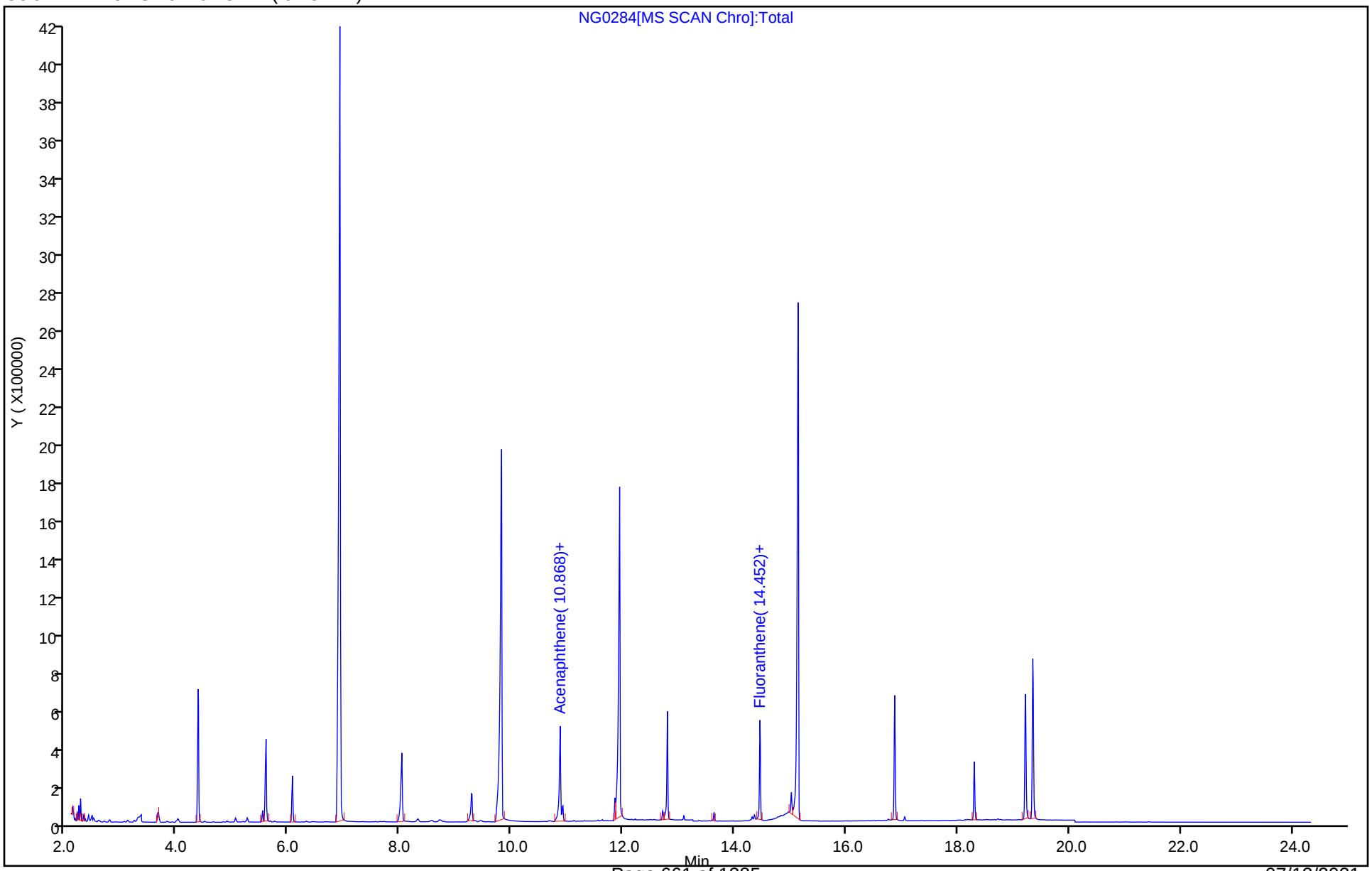
Report Date: 06-Jul-2021 04:55:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0284.D

Injection Date:	05-Jul-2021 20:16:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-B-4-A RE	Lab Sample ID:	410-45105-4	Worklist Smp#:	25
Client ID:	MW-8S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



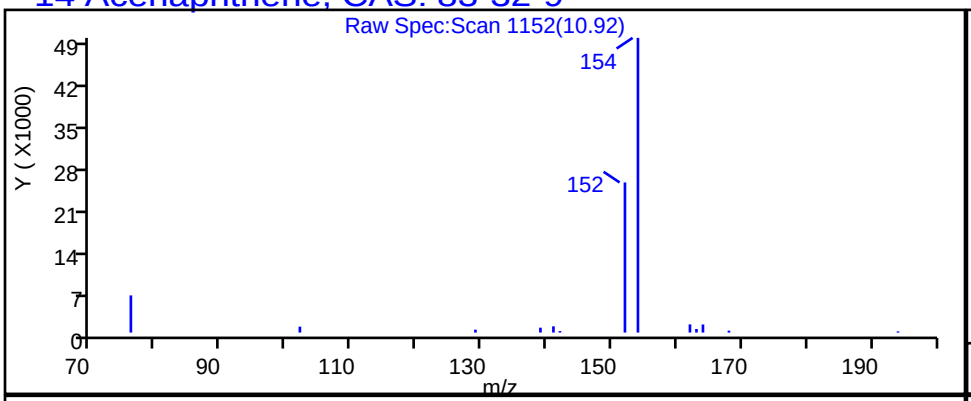
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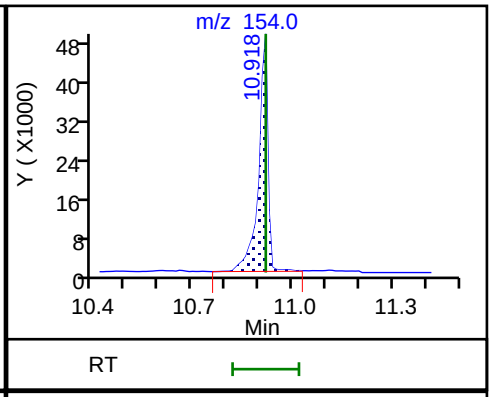
Eurofins Lancaster Laboratories Env, LLC

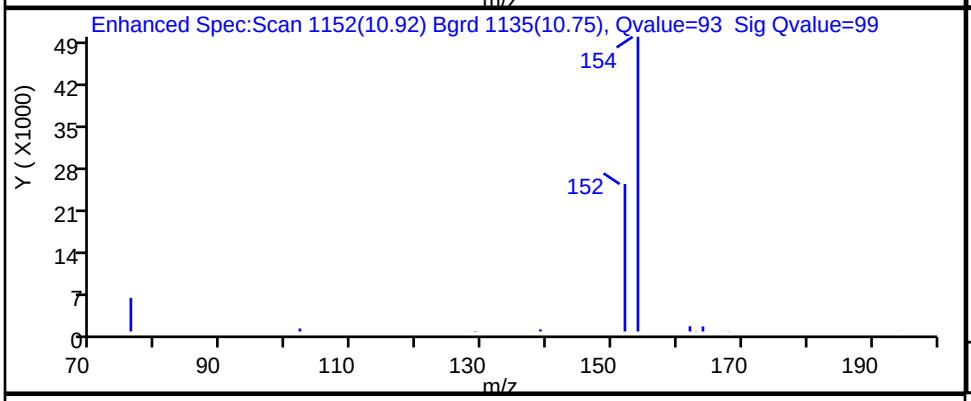
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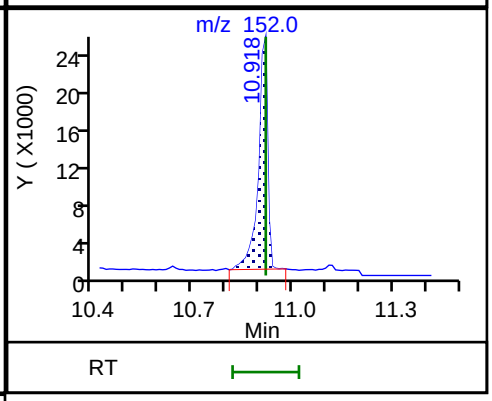
Injection Date:	05-Jul-2021 20:16:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-4-A RE	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

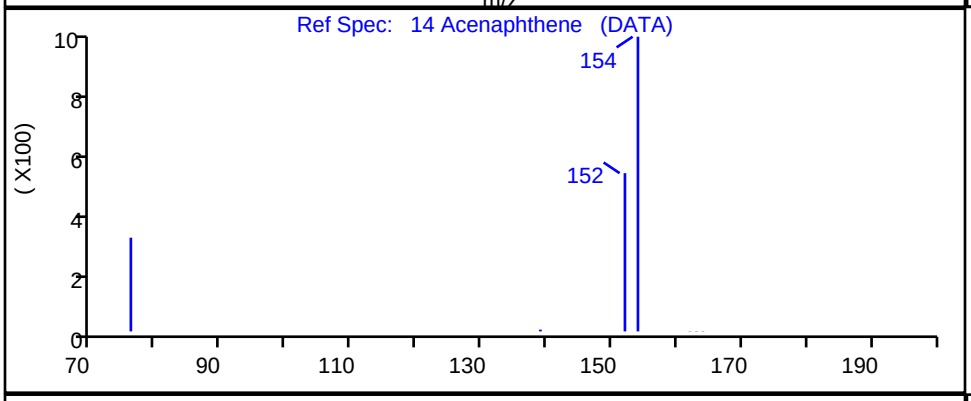
14 Acenaphthene, CAS: 83-32-9

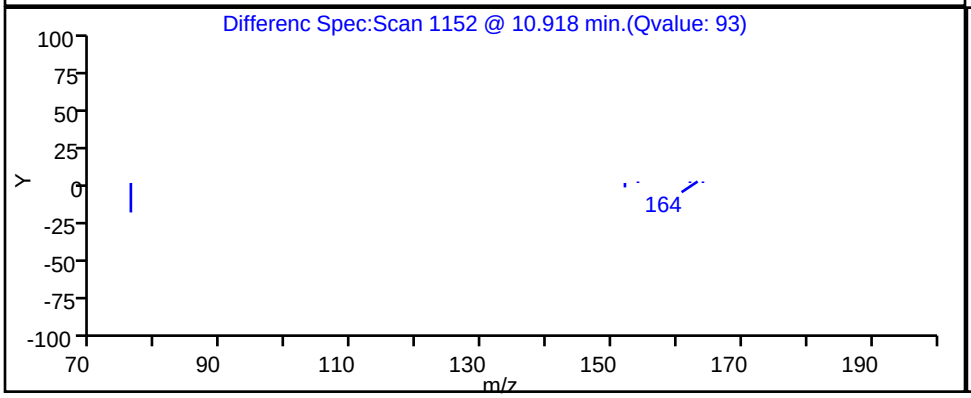


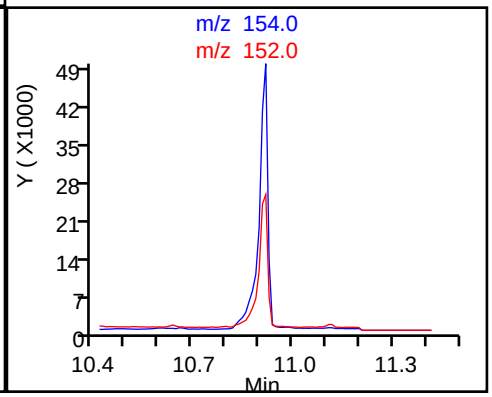












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

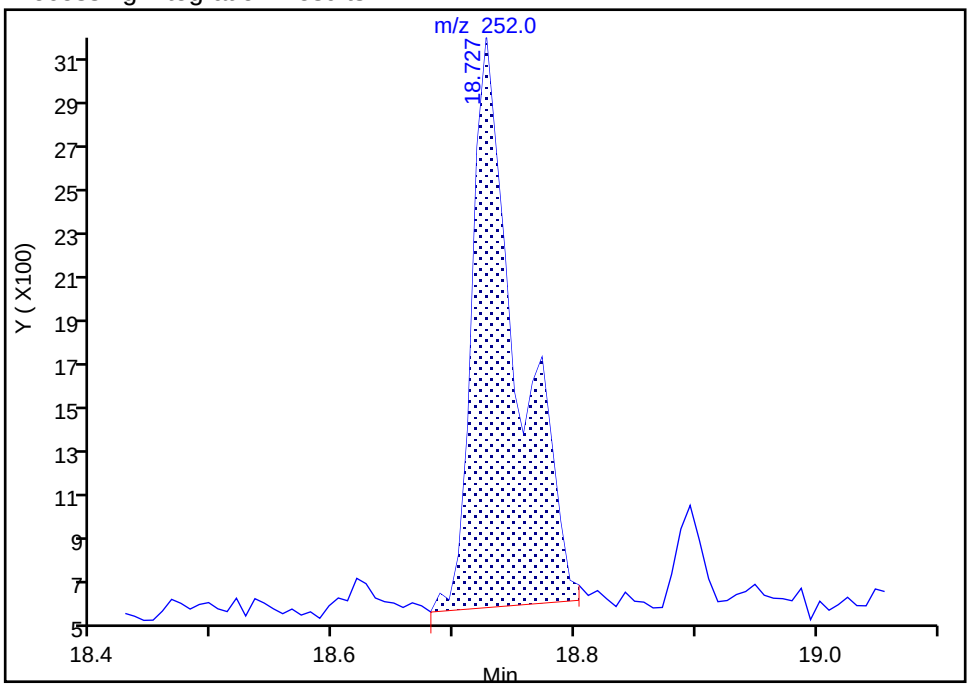
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Injection Date:	05-Jul-2021 20:16:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-4-A RE	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

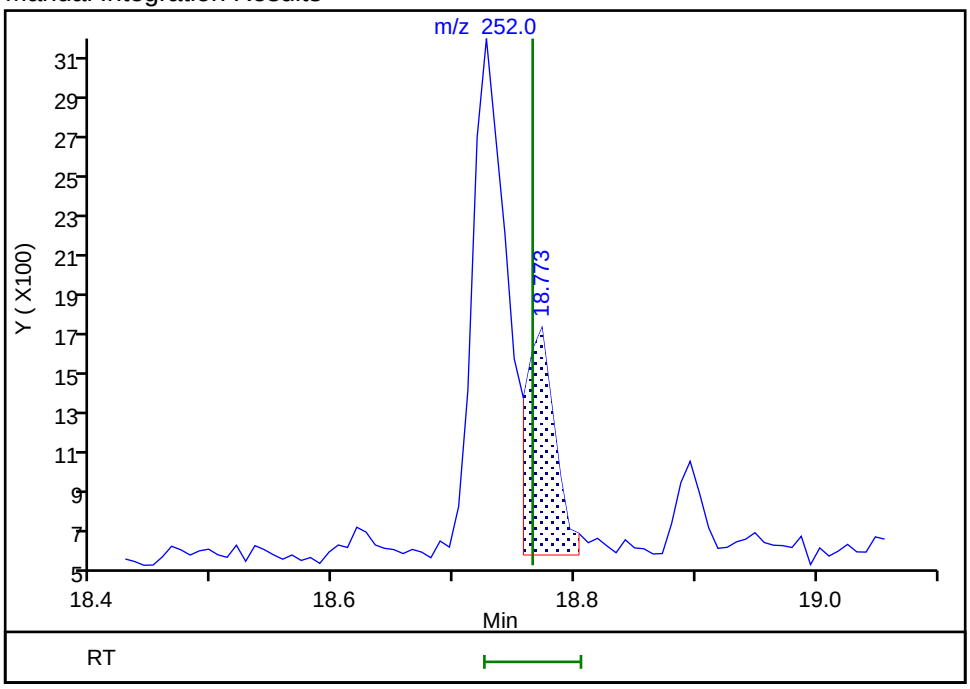
Processing Integration Results

RT: 18.73
Area: 6444
Amount: 0.001432
Amount Units: ug/ml



Manual Integration Results

RT: 18.77
Area: 1721
Amount: 0.000382
Amount Units: ug/ml



Reviewer: gamblerj, 06-Jul-2021 04:48:34

Audit Action: Manually Integrated Audit Reason: Baseline

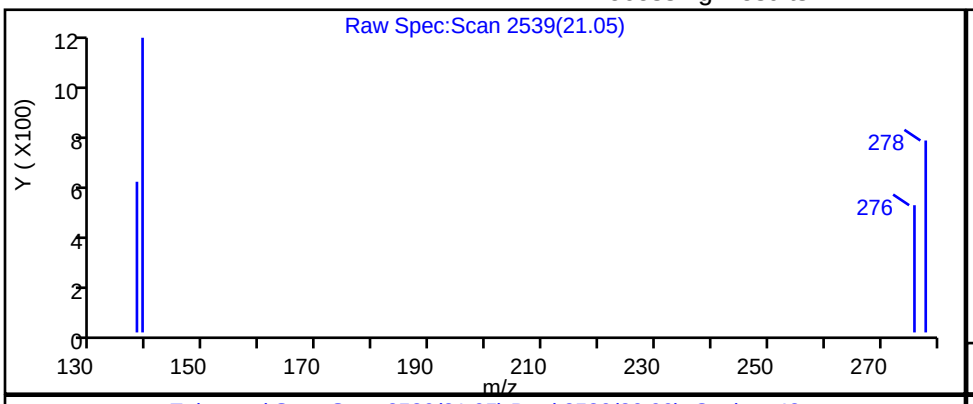
User Disabled Compound Report

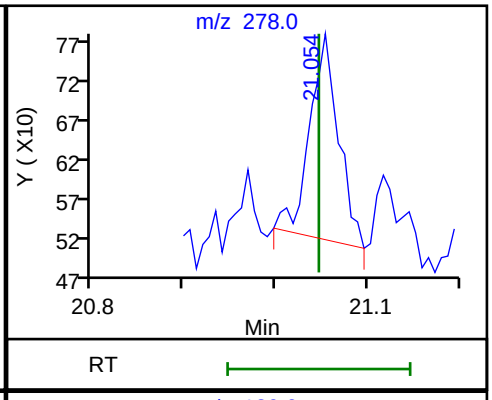
Eurofins Lancaster Laboratories Env, LLC

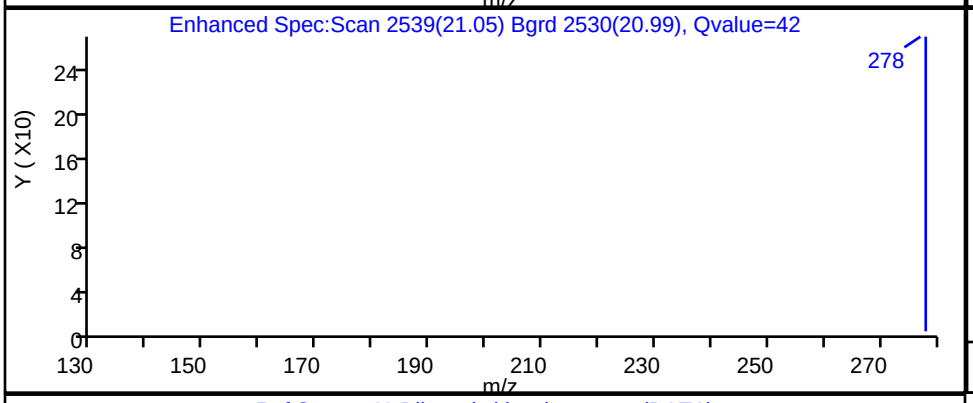
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0284.D				
Injection Date:	05-Jul-2021 20:16:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-4-A RE	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

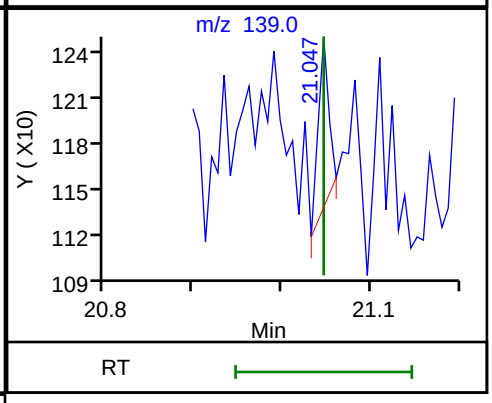
41 Dibenz(a,h)anthracene, CAS: 53-70-3

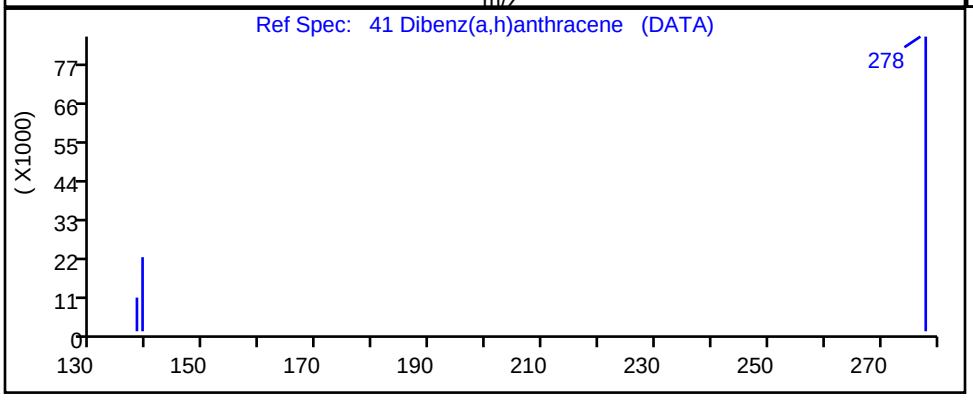
Processing Results











RT	Mass	Response	Amount
21.05	278.00	576	0.006813
21.05	139.00	86	

Reviewer: gamblerj, 06-Jul-2021 04:48:45

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

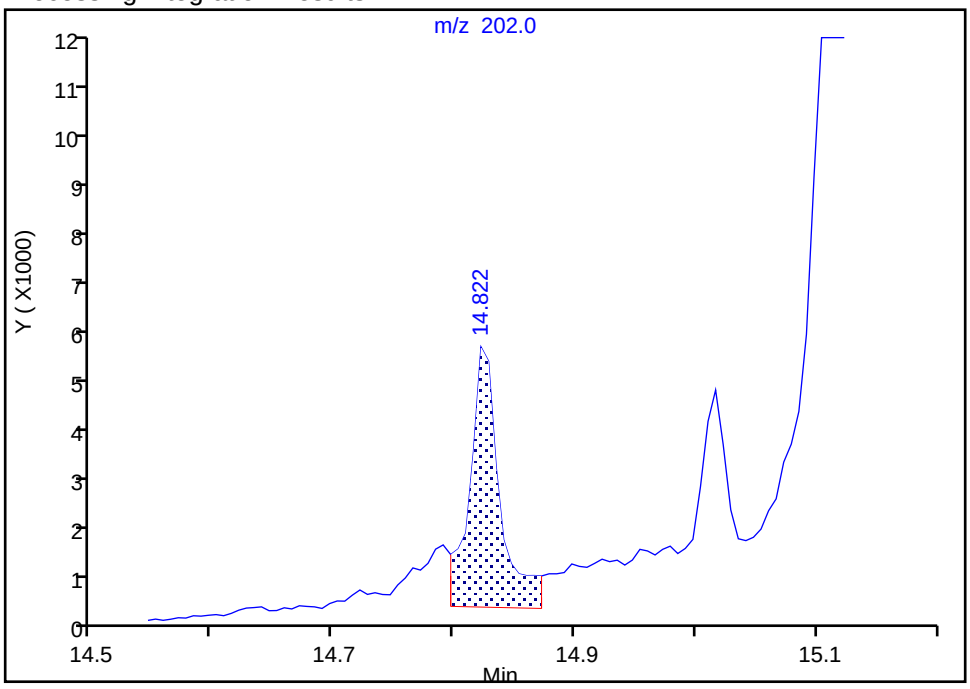
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0284.D				
Injection Date:	05-Jul-2021 20:16:30	Instrument ID:	HP23263		
Lims ID:	410-45105-B-4-A RE	Lab Sample ID:	410-45105-4		
Client ID:	MW-8S-20210623				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

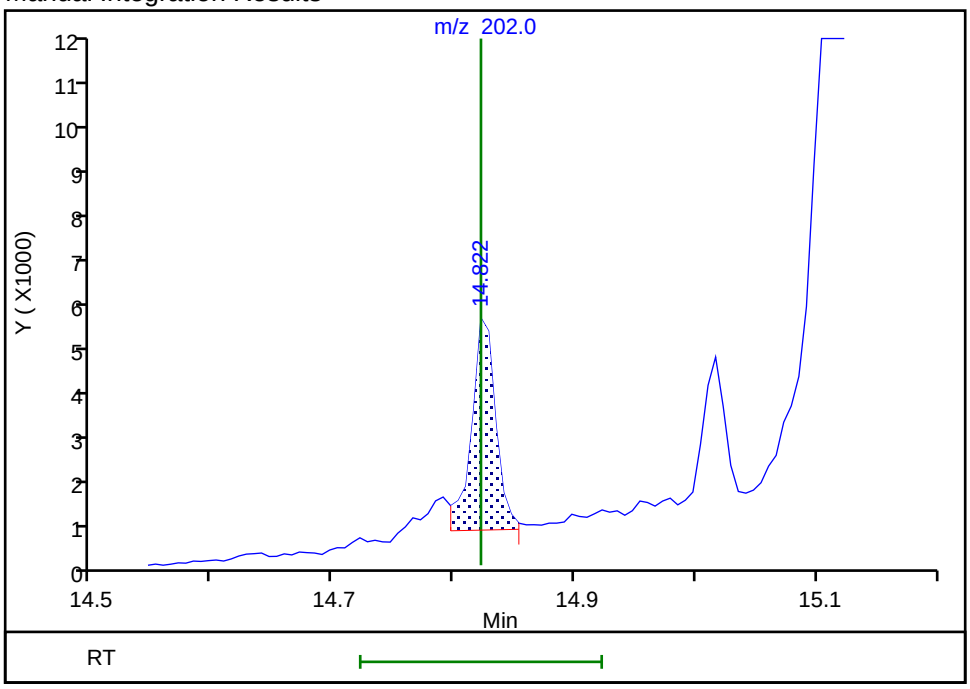
Processing Integration Results

RT: 14.82
Area: 8120
Amount: 0.002126
Amount Units: ug/ml



Manual Integration Results

RT: 14.82
Area: 5861
Amount: 0.001535
Amount Units: ug/ml



Reviewer: gamblerj, 06-Jul-2021 04:48:24

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8D-20210623 Lab Sample ID: 410-45105-5

Matrix: Groundwater Lab File ID: MG0226.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 09:49

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 241.6(mL) Date Analyzed: 07/06/2021 12:23

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145121 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	ND		0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	ND		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	63		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	55		36-111
93951-69-0	Fluoranthene-d10 (Surr)	84		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0226.D
Lims ID: 410-45105-A-5-C
Client ID: MW-8D-20210623
Sample Type: Client
Inject. Date: 06-Jul-2021 12:23:49 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-5-C
Misc. Info.: 410-0033555-027
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 13:31:30 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1642

First Level Reviewer: saadehw Date: 06-Jul-2021 13:31:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	89	7761	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	0.000	91	26869	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.777	0.000	99	9557	0.1368	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	95	18243	0.2500	
* 20 Phenanthrene-d10	188	13.273	13.273	0.000	98	39161	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.909	-0.006	96	38581	0.2105	
25 Fluoranthene	202	14.943	14.943	0.000	97	519	0.002374	7M
26 Pyrene	202	15.288	15.288	0.000	95	533	0.002166	7M
28 Benzo[a]anthracene	228	17.294	17.294	0.007	5	439	0.001703	7M
* 29 Chrysene-d12	240	17.309	17.302	0.007	55	49693	0.2500	
30 Chrysene	228	17.356	17.356	0.008	99	460	0.001693	7M
33 Benzo[b]fluoranthene	252	19.173	19.173	0.023	96	586	0.002161	7Ma
34 Benzo[k]fluoranthene	252	19.204	19.204	0.008	81	407	0.001384	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.649	19.641	0.008	97	35083	0.1575	
* 38 Perylene-d12	264	19.771	19.771	0.000	97	58240	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.477	21.477	0.042	98	336	0.001366	7M

QC Flag Legend

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

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

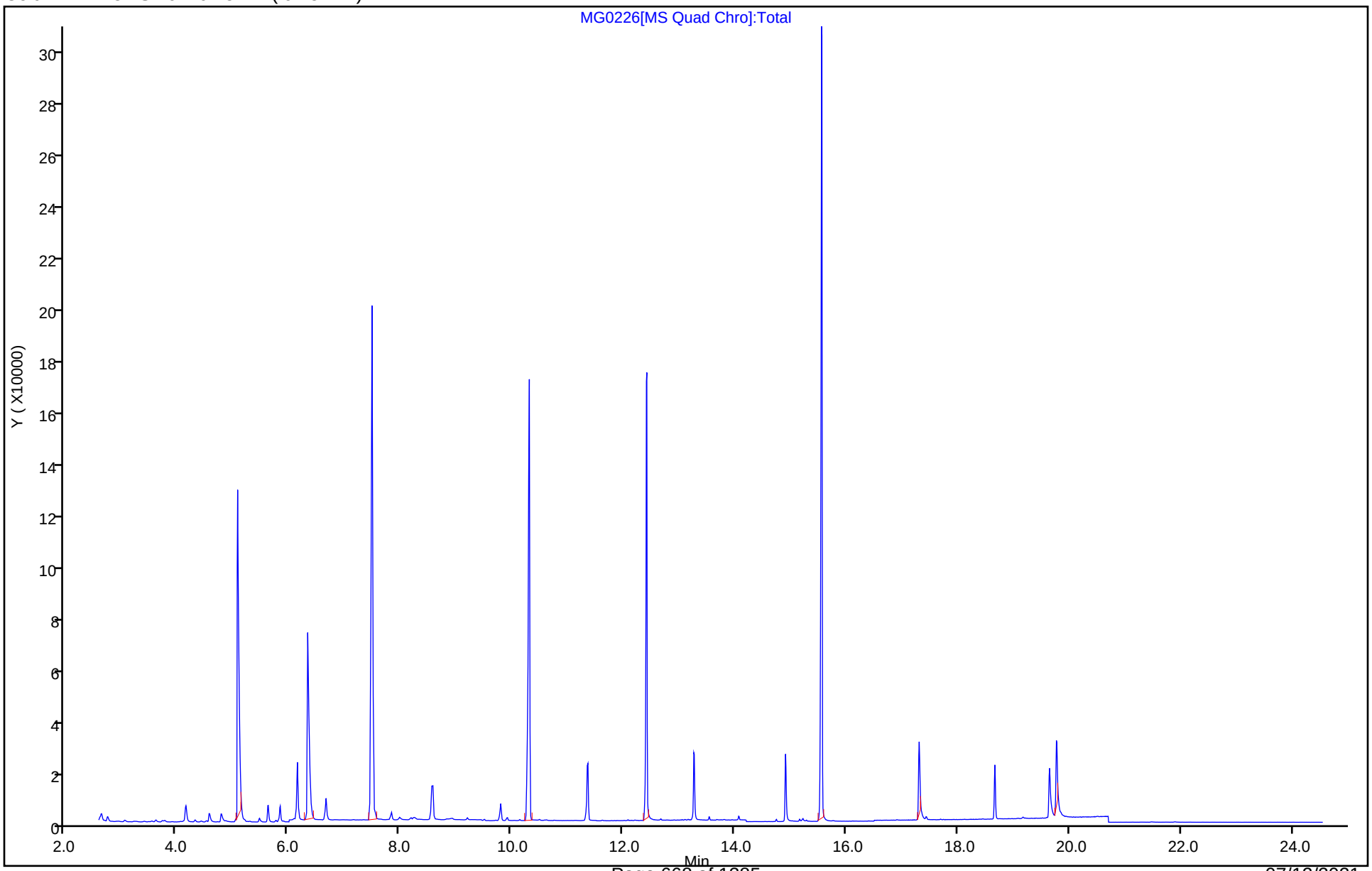
Report Date: 06-Jul-2021 13:31:36 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0226.D

Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5	Worklist Smp#:	27
Client ID:	MW-8D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

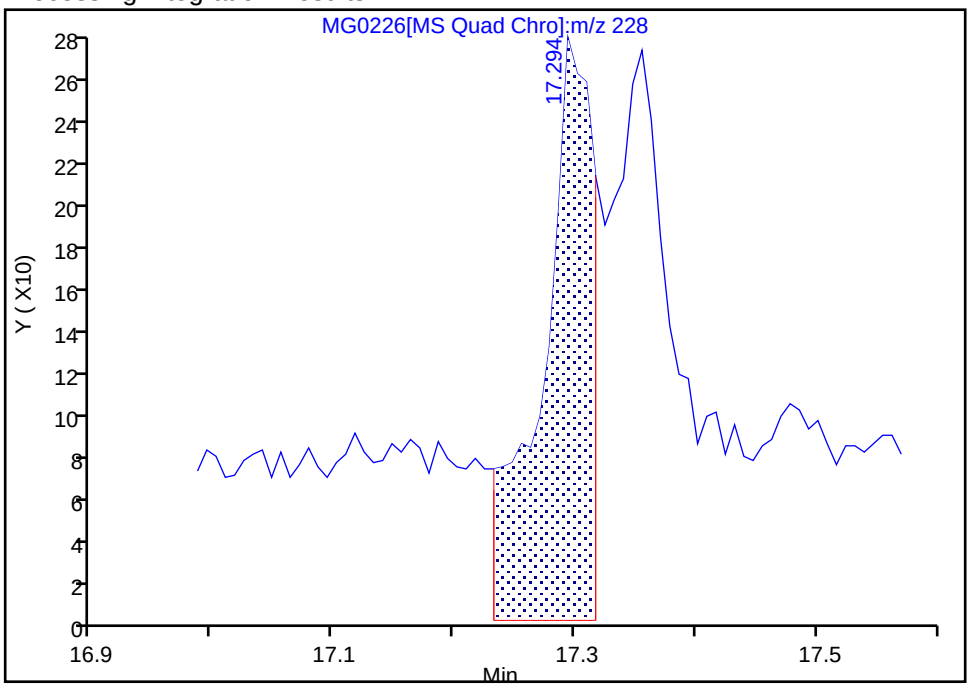
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Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

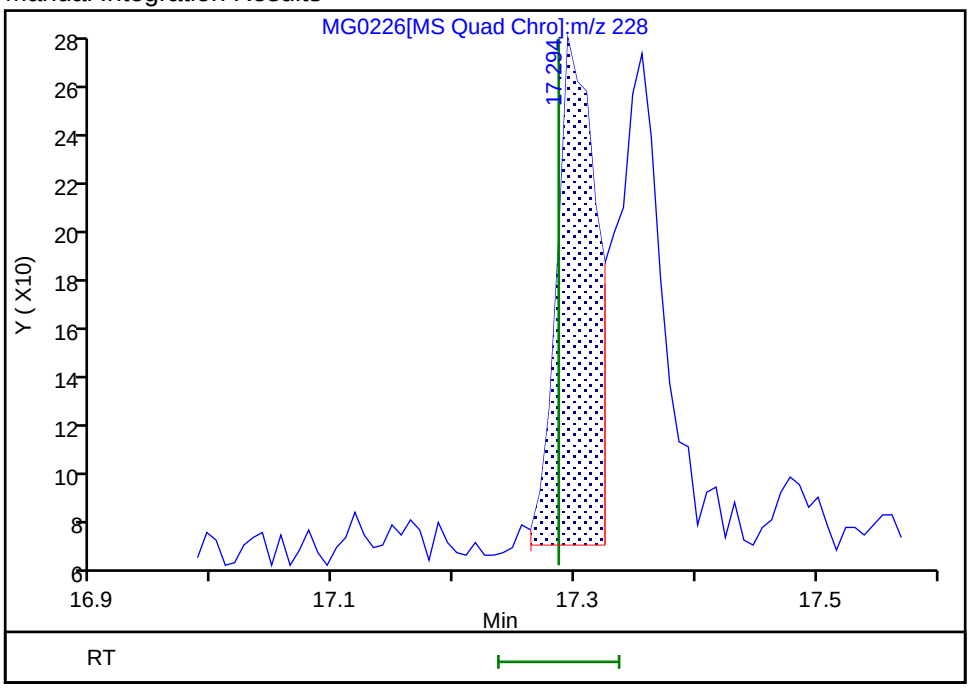
Processing Integration Results

RT: 17.29
Area: 769
Amount: 0.002984
Amount Units: ug/ml



Manual Integration Results

RT: 17.29
Area: 439
Amount: 0.001703
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:30:18

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

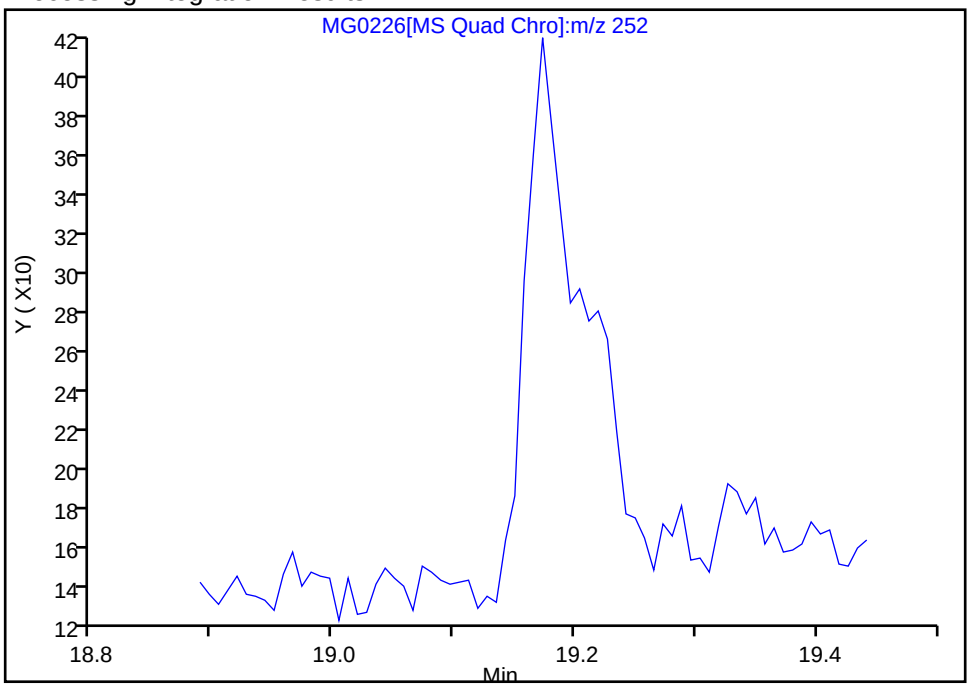
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0226.D				
Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

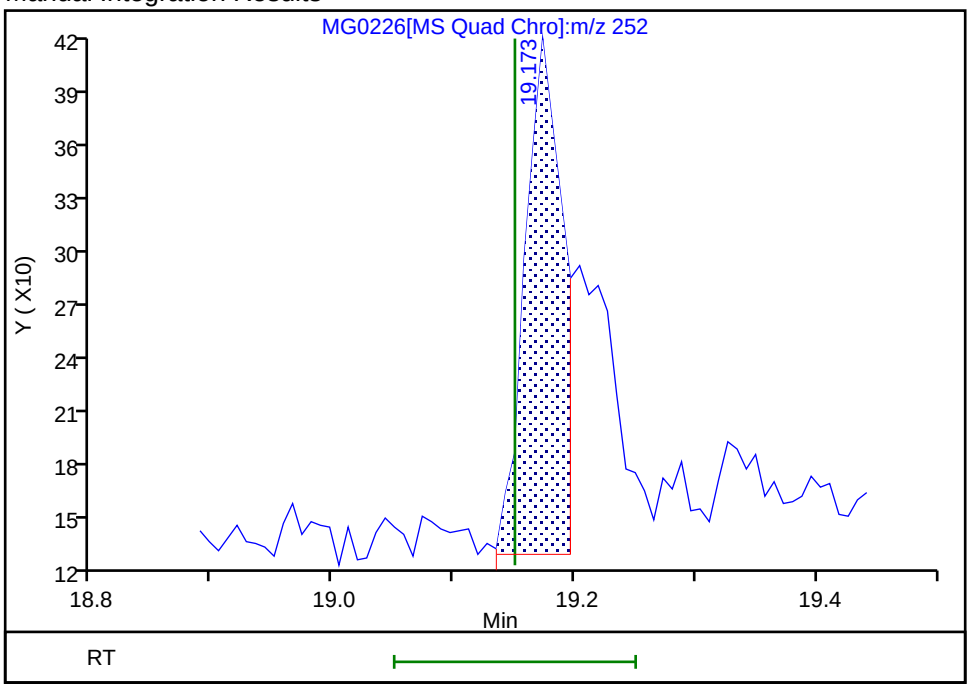
Not Detected
Expected RT: 19.15

Processing Integration Results



Manual Integration Results

RT: 19.17
Area: 586
Amount: 0.002161
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:30:45
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

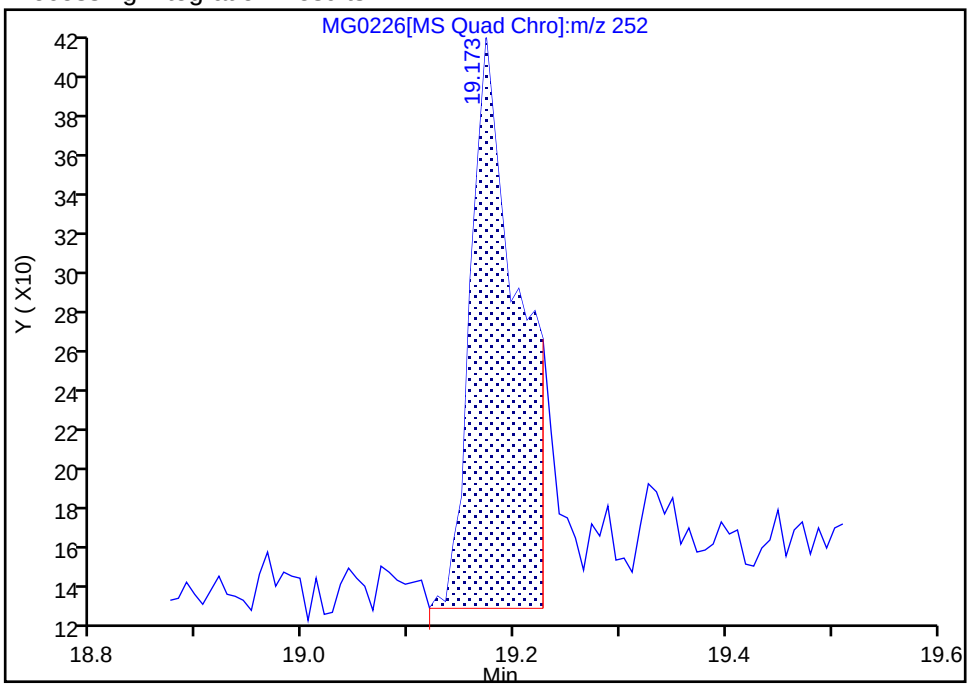
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Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

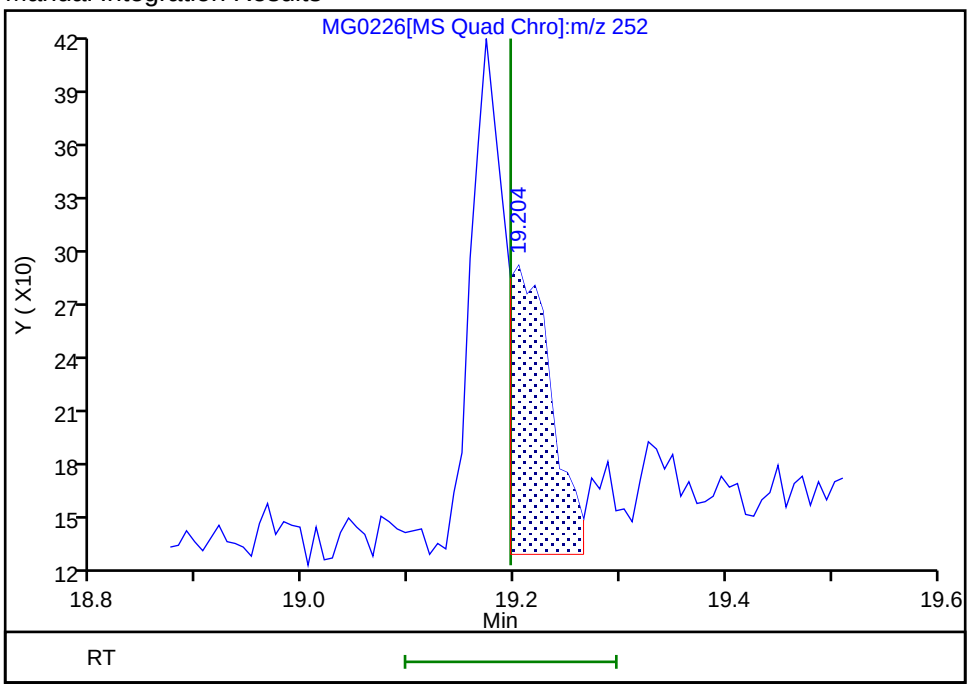
Processing Integration Results

RT: 19.17
Area: 862
Amount: 0.002932
Amount Units: ug/ml



Manual Integration Results

RT: 19.20
Area: 407
Amount: 0.001384
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:30:58

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

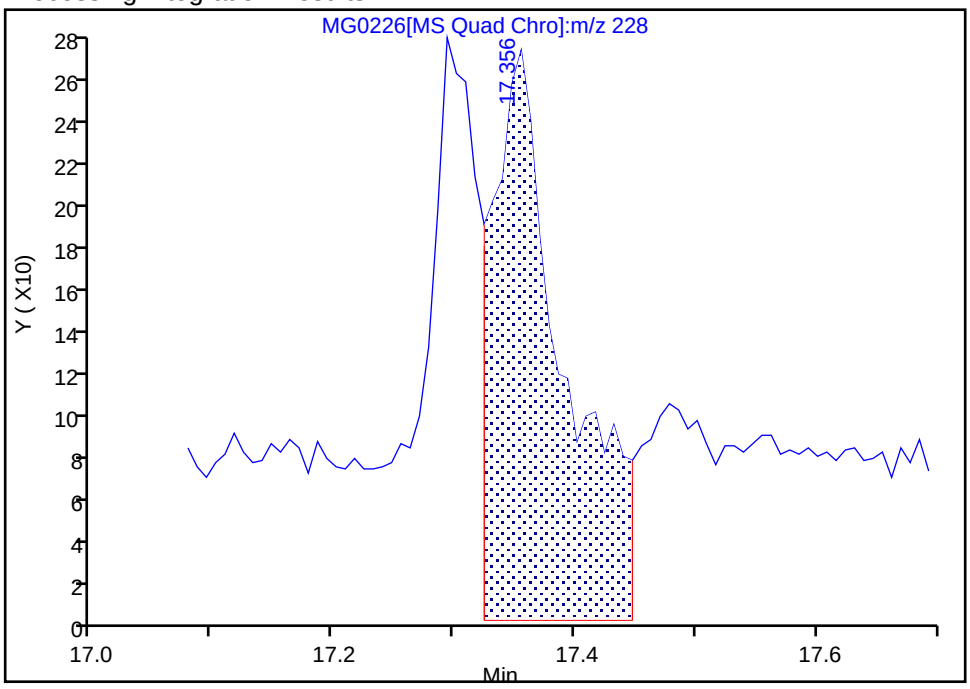
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Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

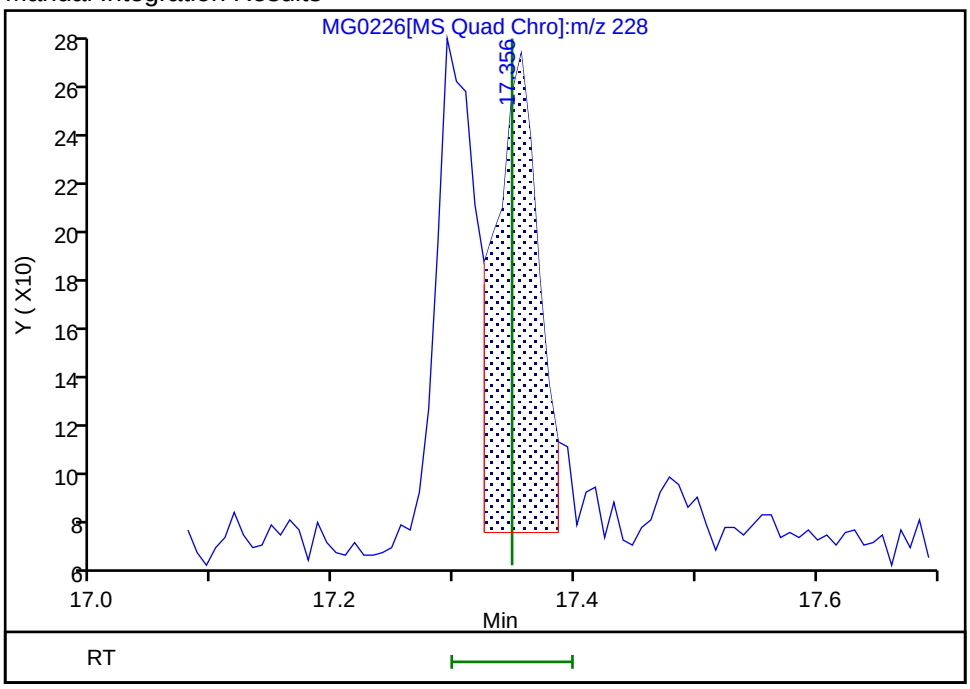
Processing Integration Results

RT: 17.36
Area: 1099
Amount: 0.004045
Amount Units: ug/ml



Manual Integration Results

RT: 17.36
Area: 460
Amount: 0.001693
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:30:26
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

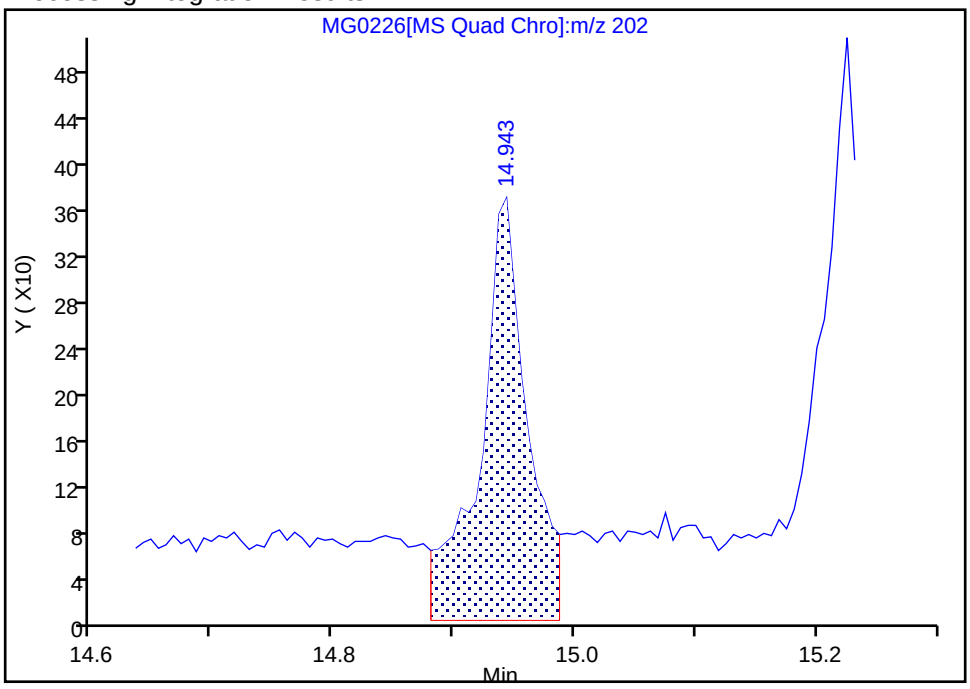
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Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

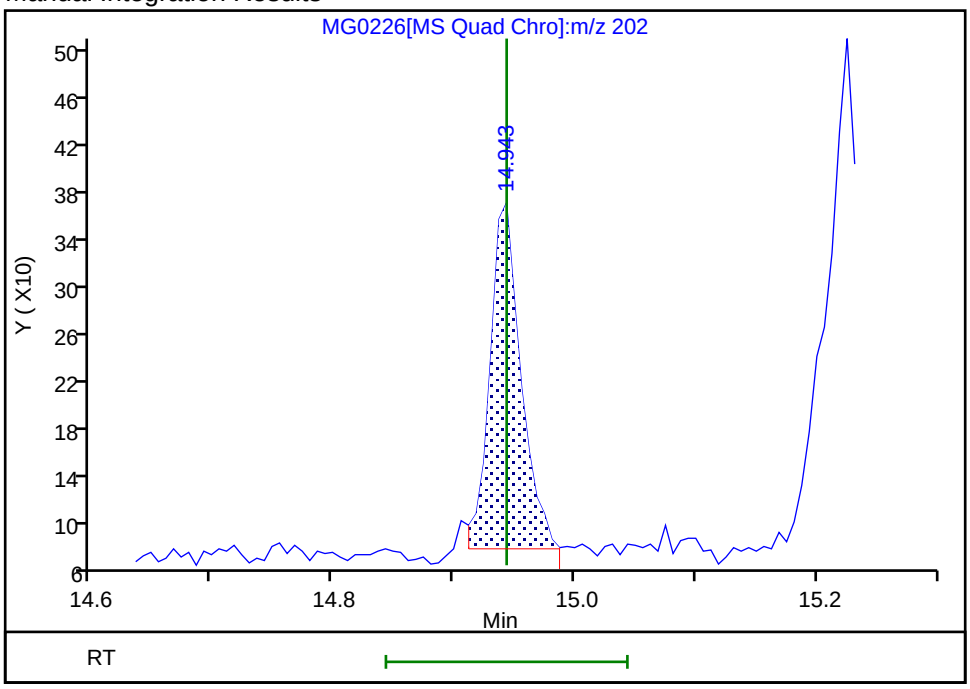
Processing Integration Results

RT: 14.94
Area: 995
Amount: 0.004551
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 519
Amount: 0.002374
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:29:51

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

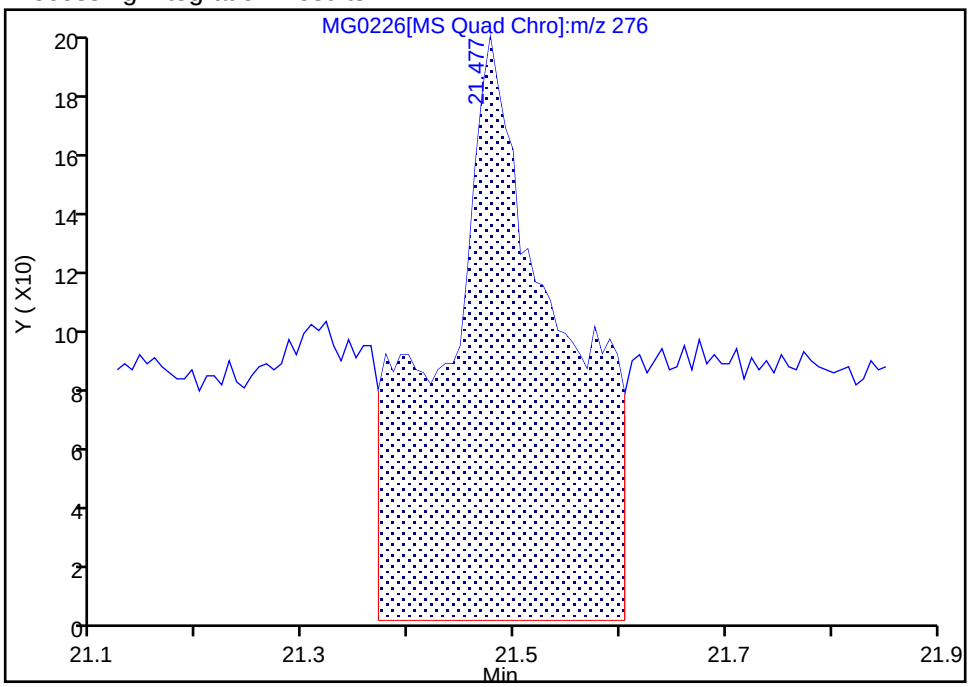
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0226.D				
Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

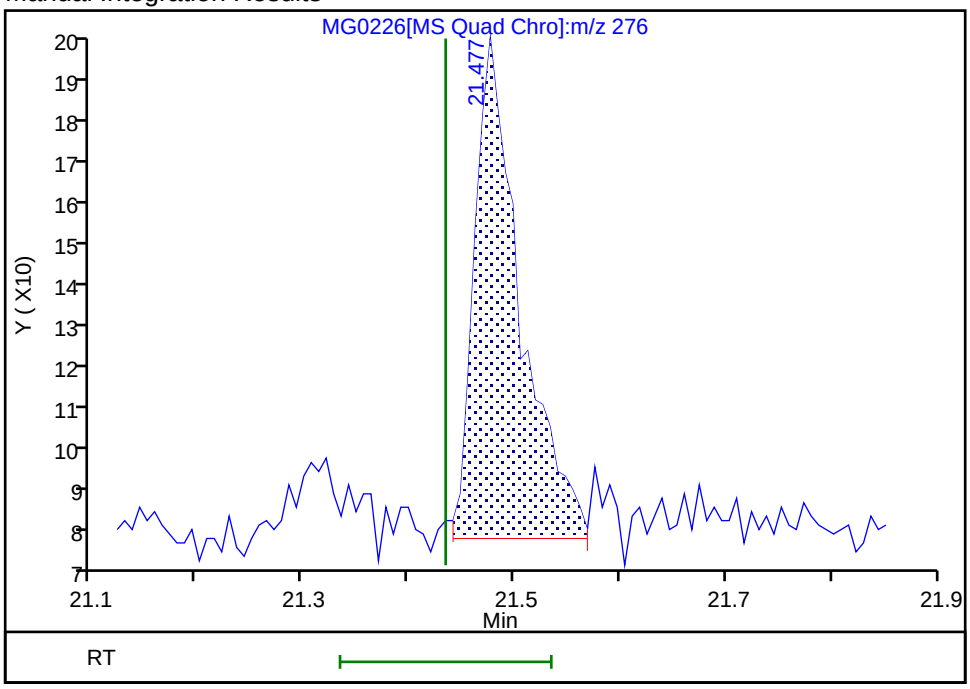
Processing Integration Results

RT: 21.48
Area: 1497
Amount: 0.006085
Amount Units: ug/ml



Manual Integration Results

RT: 21.48
Area: 336
Amount: 0.001366
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:31:17
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

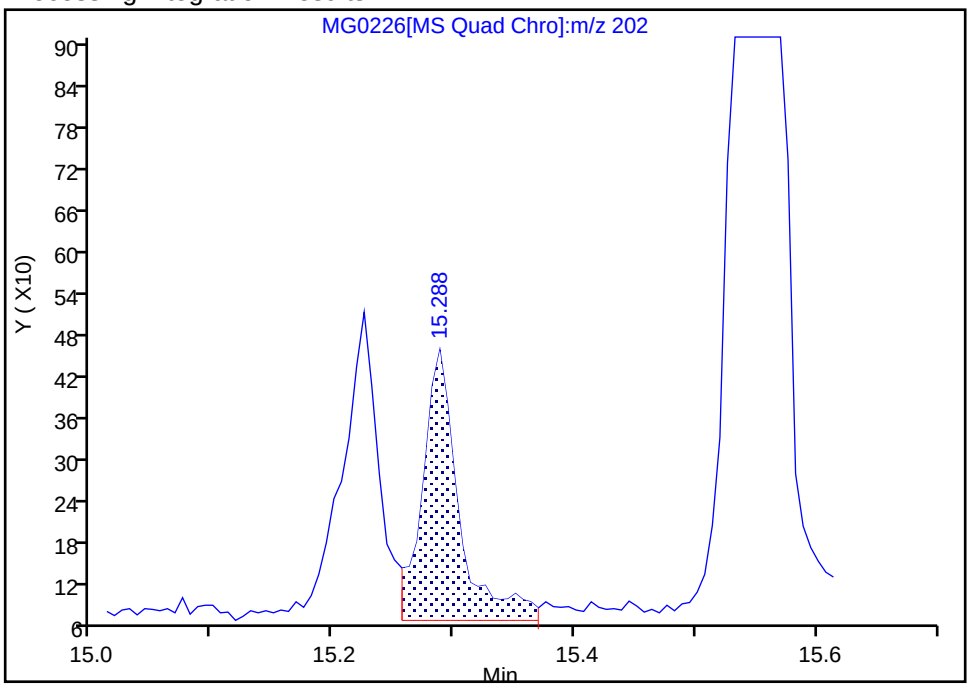
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0226.D				
Injection Date:	06-Jul-2021 12:23:49	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-C	Lab Sample ID:	410-45105-5		
Client ID:	MW-8D-20210623				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

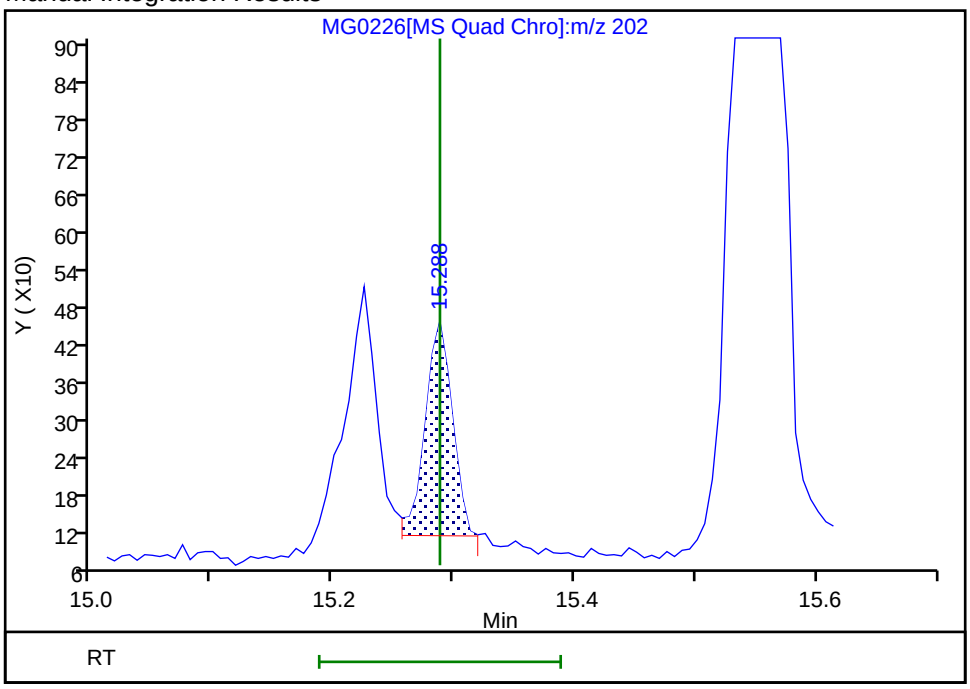
Processing Integration Results

RT: 15.29
Area: 814
Amount: 0.003308
Amount Units: ug/ml



Manual Integration Results

RT: 15.29
Area: 533
Amount: 0.002166
Amount Units: ug/ml



Reviewer: saadehw, 06-Jul-2021 13:30:01

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-7S-20210623 Lab Sample ID: 410-45105-6

Matrix: Groundwater Lab File ID: MF2212.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 10:49

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 243.3(mL) Date Analyzed: 07/01/2021 03:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.099		0.051	0.010
208-96-8	Acenaphthylene	0.012	J	0.051	0.010
120-12-7	Anthracene	0.044	J	0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.021
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	0.025	J	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	ND		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	66		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	72		36-111
93951-69-0	Fluoranthene-d10 (Surr)	84		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D
Lims ID: 410-45105-A-6-A
Client ID: MW-7S-20210623
Sample Type: Client
Inject. Date: 01-Jul-2021 03:01:35 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-6-A
Misc. Info.: 410-0033298-013
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 09:45:43 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 09:33:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	89	11037	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	37786	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	17790	0.1811	
12 Acenaphthylene	152	11.170	11.170	0.000	100	504	0.002995	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	96	24845	0.2500	
14 Acenaphthene	154	11.427	11.427	0.000	93	2606	0.0240	
17 Fluorene	166	12.134	12.134	0.000	95	842	0.006036	
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	96	45360	0.2500	
22 Anthracene	178	13.390	13.383	0.007	100	1922	0.0108	M
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	44641	0.2103	
* 29 Chrysene-d12	240	17.325	17.325	0.000	55	54533	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.664	19.664	0.008	98	38300	0.1651	
* 38 Perylene-d12	264	19.794	19.787	0.007	98	60687	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

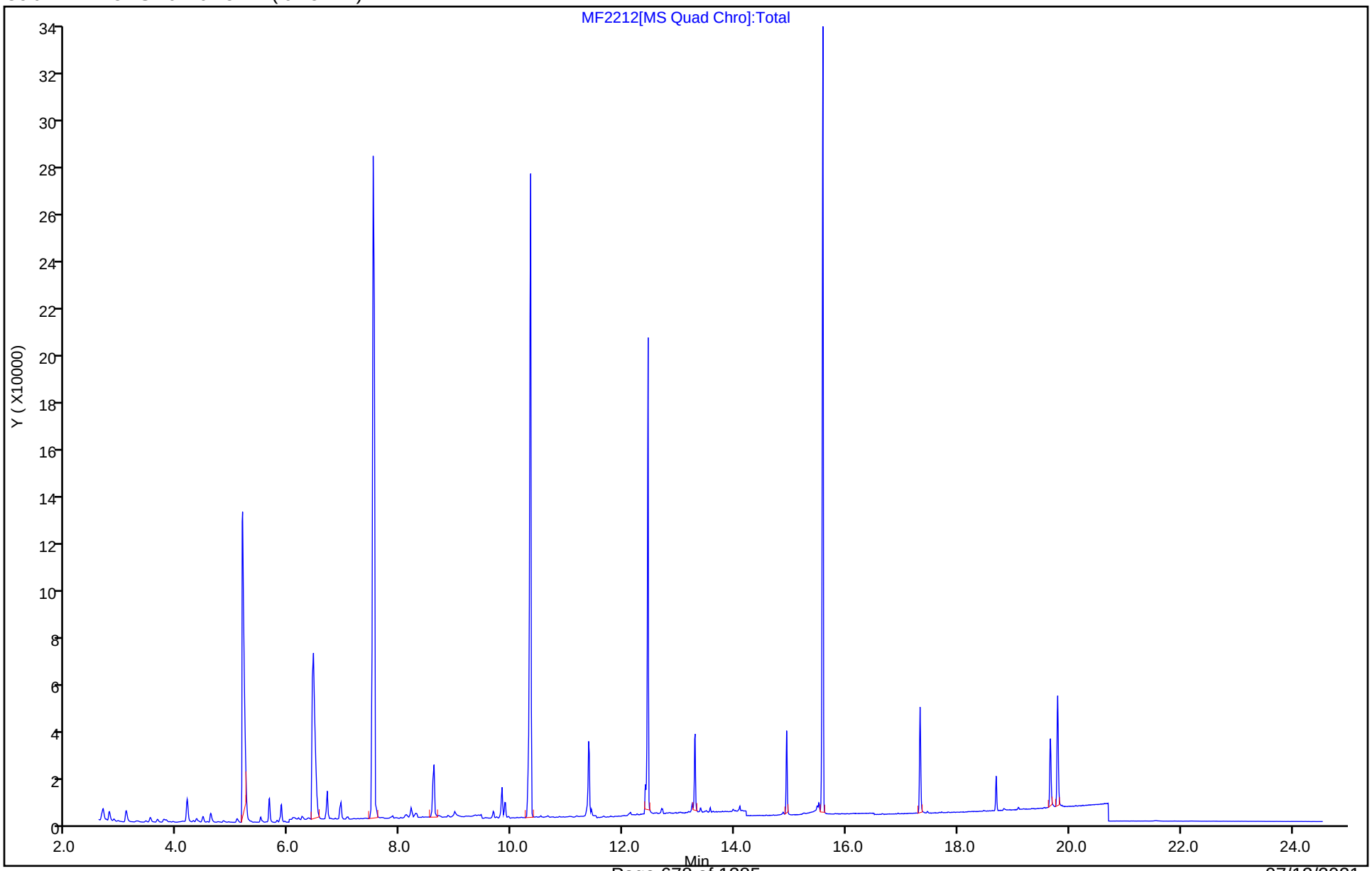
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 01-Jul-2021 09:47:40 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D				
Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6	Worklist Smp#:	13
Client ID:	MW-7S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

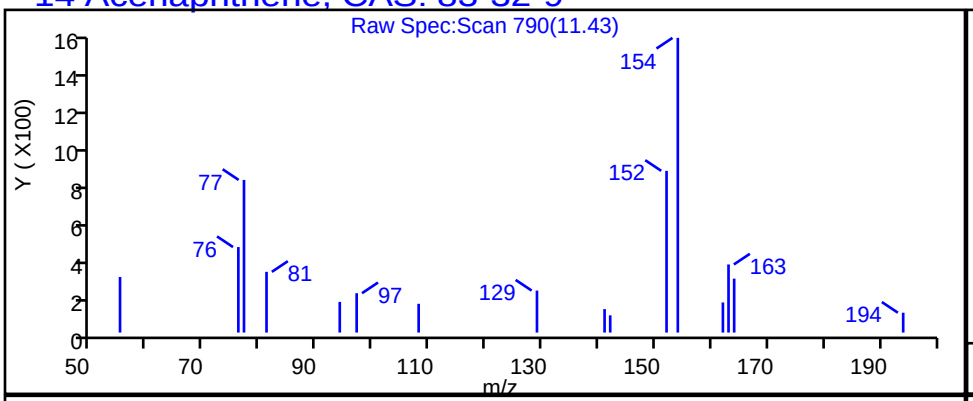
Column: DB-5MS 20m 0.25mm (0.25 mm)

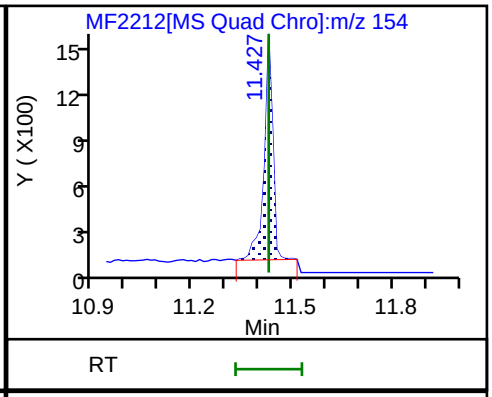


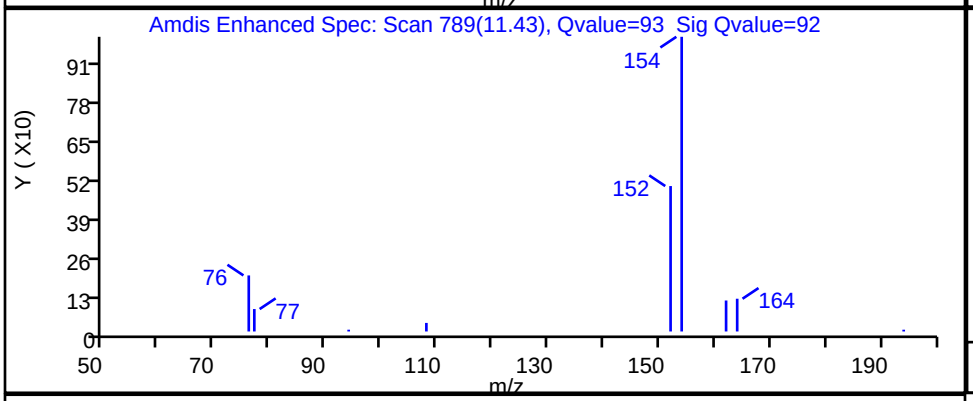
Eurofins Lancaster Laboratories Environment Testing, LLC

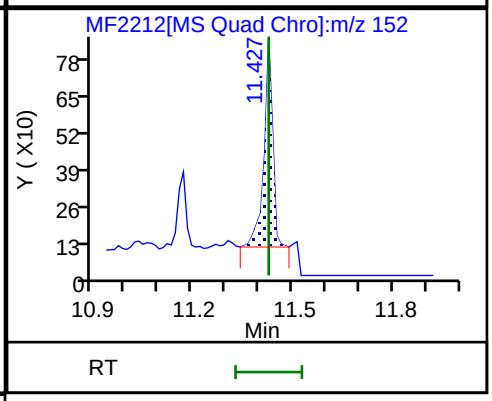
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Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

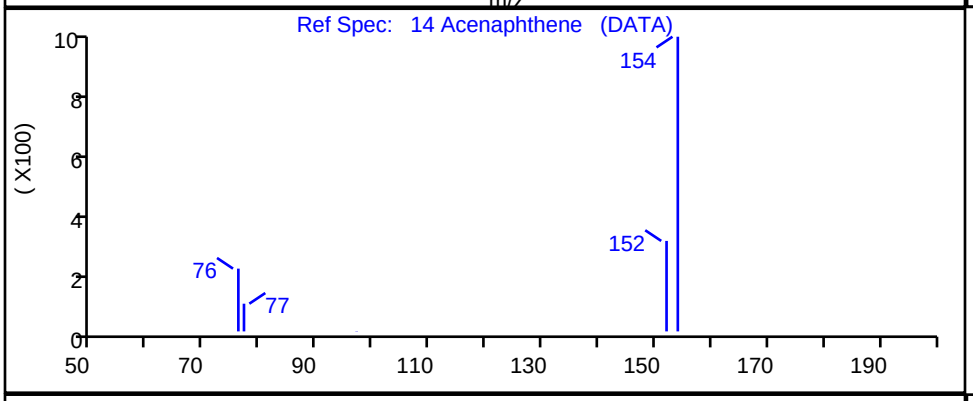
14 Acenaphthene, CAS: 83-32-9

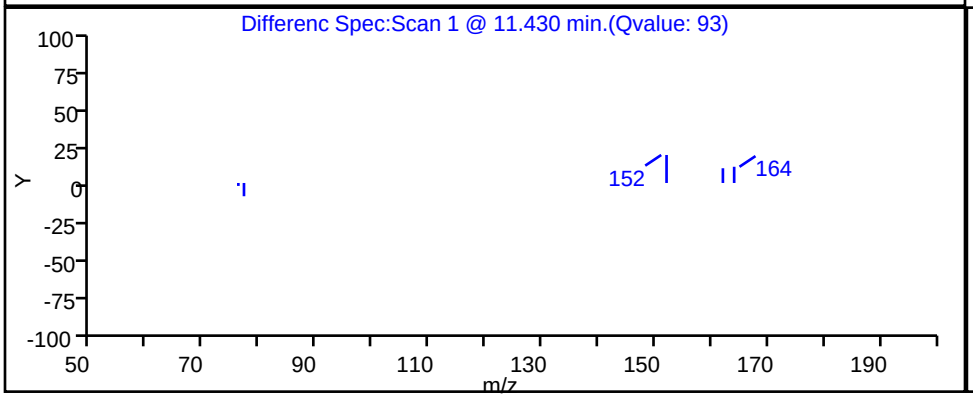


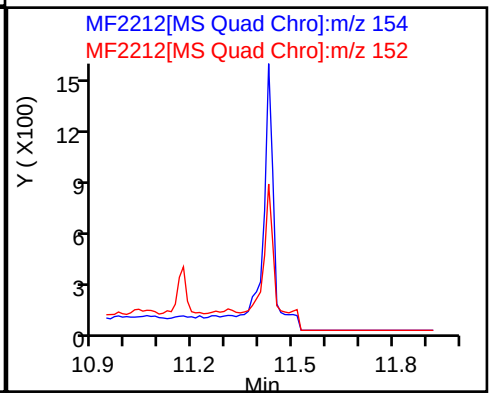












Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D

Injection Date: 01-Jul-2021 03:01:35 Instrument ID: HP21585

Lims ID: 410-45105-A-6-A Lab Sample ID: 410-45105-6

Client ID: MW-7S-20210623

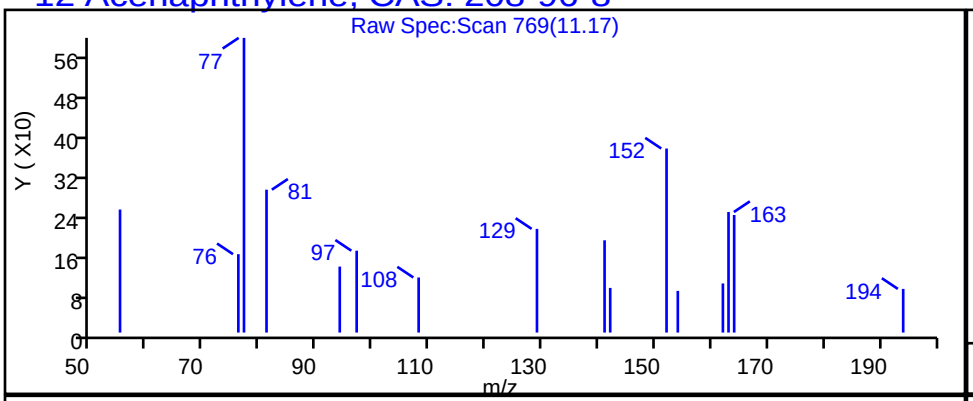
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 13

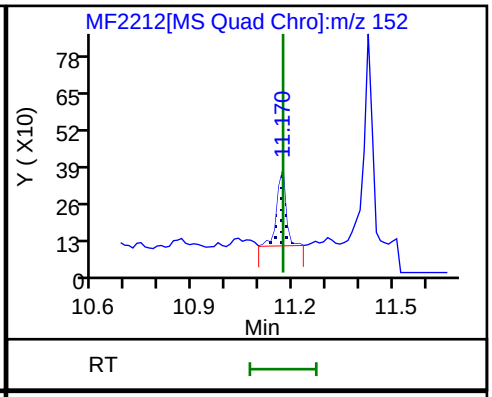
Injection Vol: 1.0 ul Dil. Factor: 1.0000

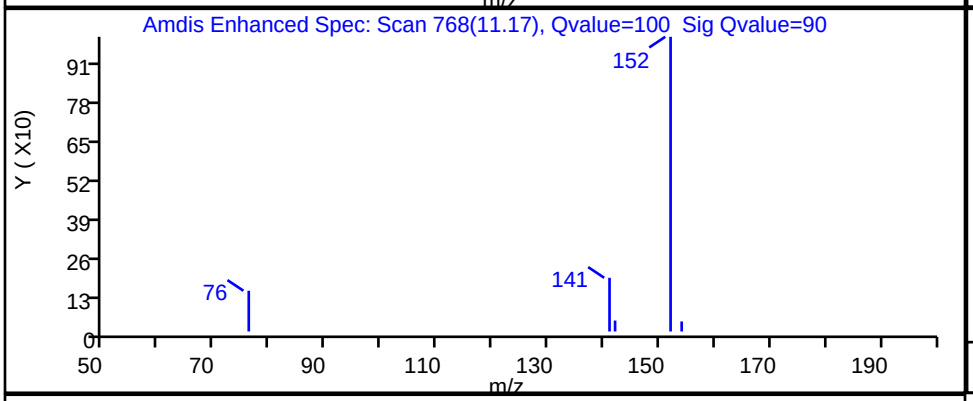
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

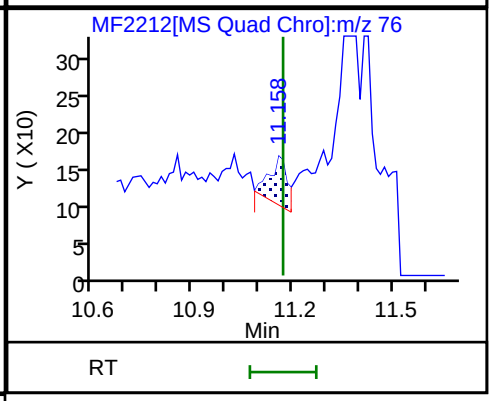
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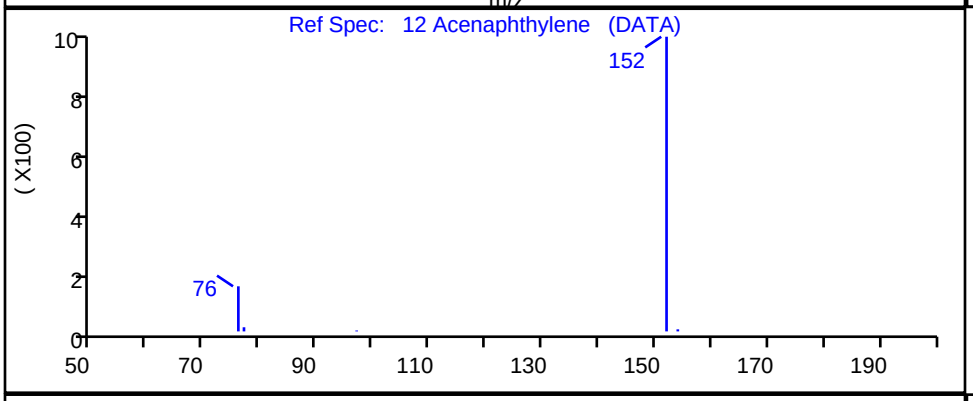
12 Acenaphthylene, CAS: 208-96-8

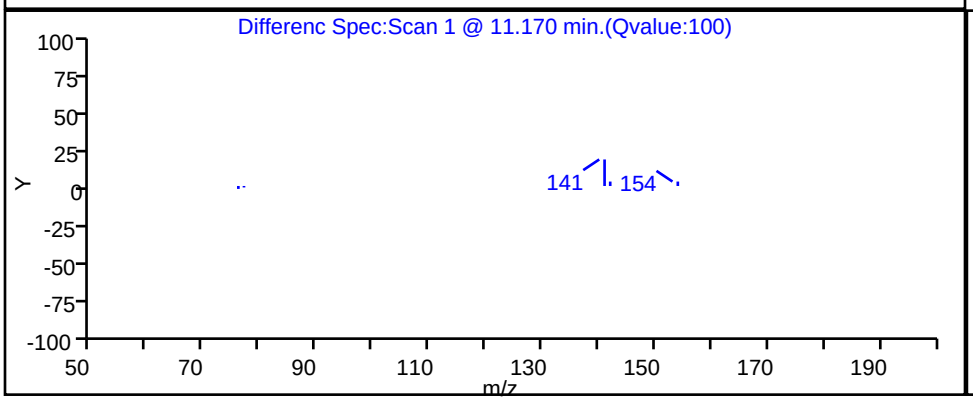


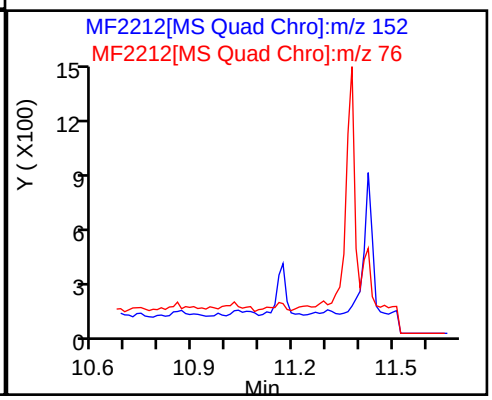












Report Date: 01-Jul-2021 09:47:40 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D

Injection Date: 01-Jul-2021 03:01:35 Instrument ID: HP21585

Lims ID: 410-45105-A-6-A Lab Sample ID: 410-45105-6

Client ID: MW-7S-20210623

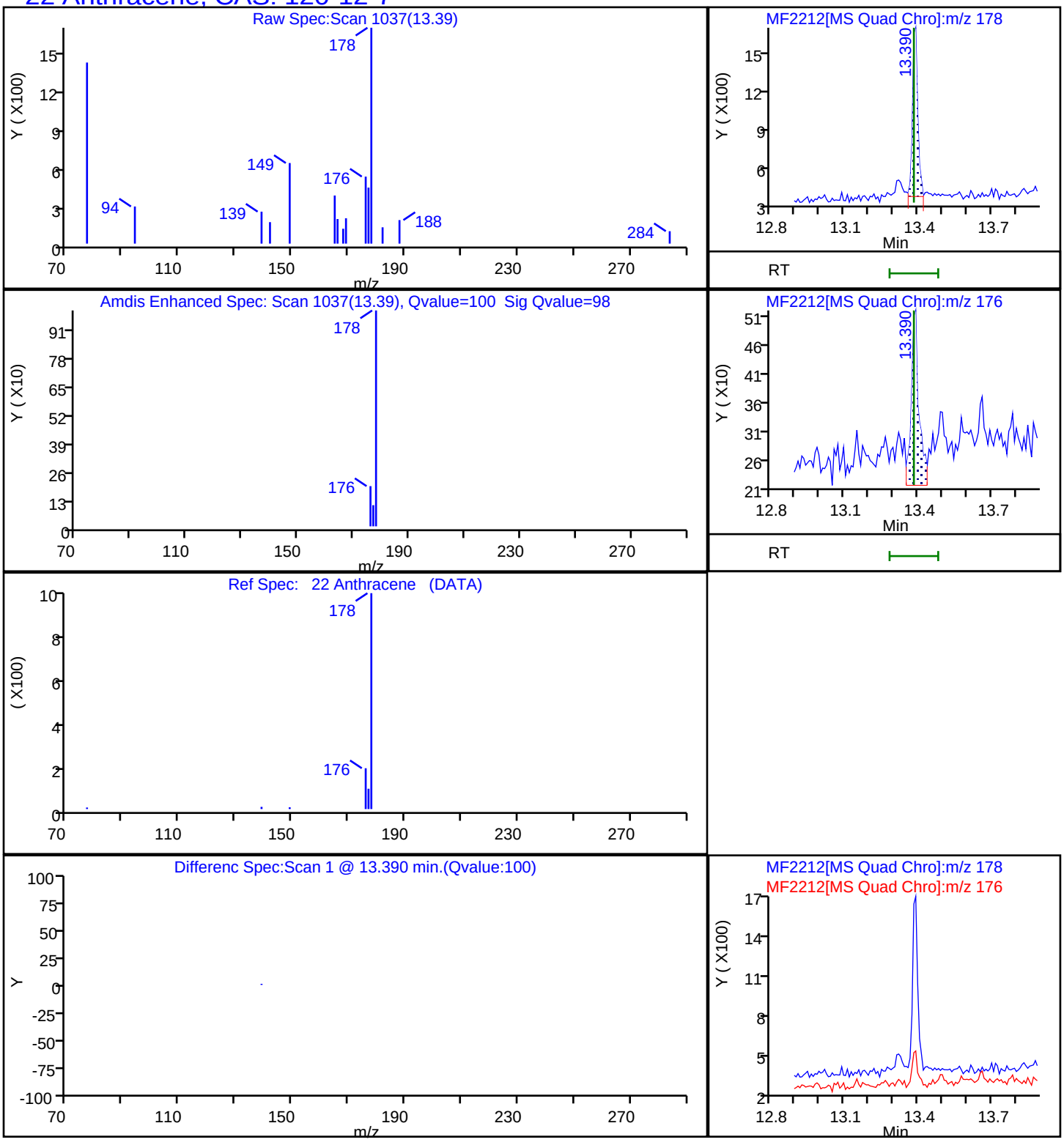
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

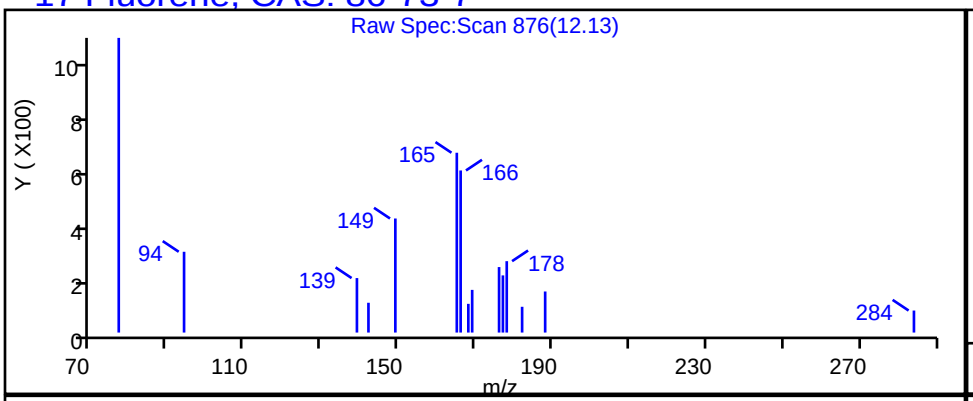
22 Anthracene, CAS: 120-12-7

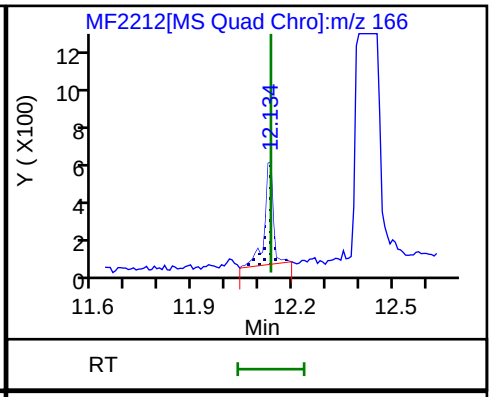


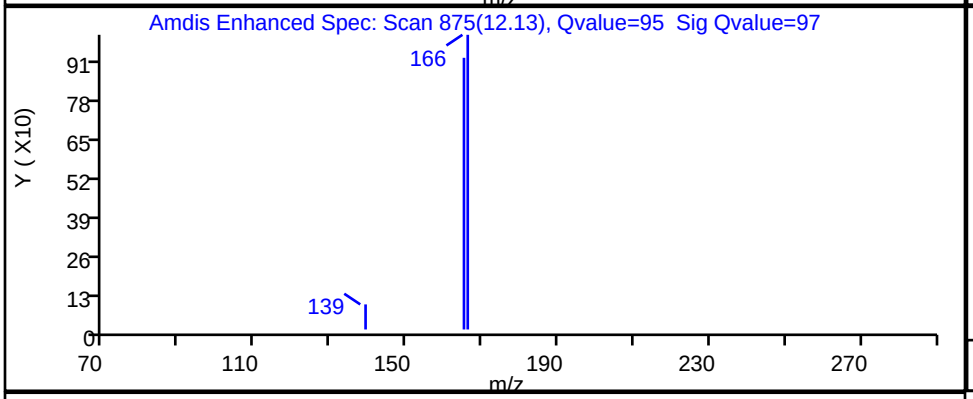
Eurofins Lancaster Laboratories Environment Testing, LLC

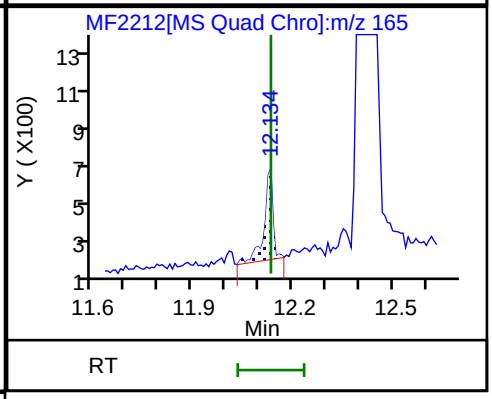
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Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6
Client ID:	MW-7S-20210623		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

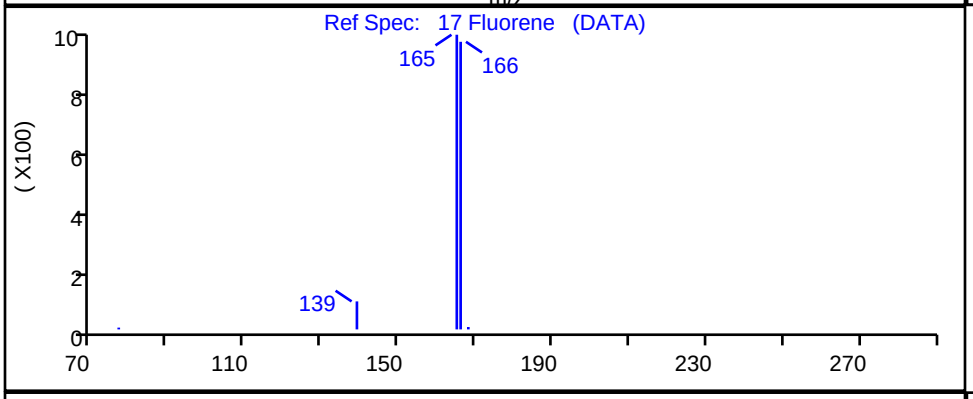
17 Fluorene, CAS: 86-73-7

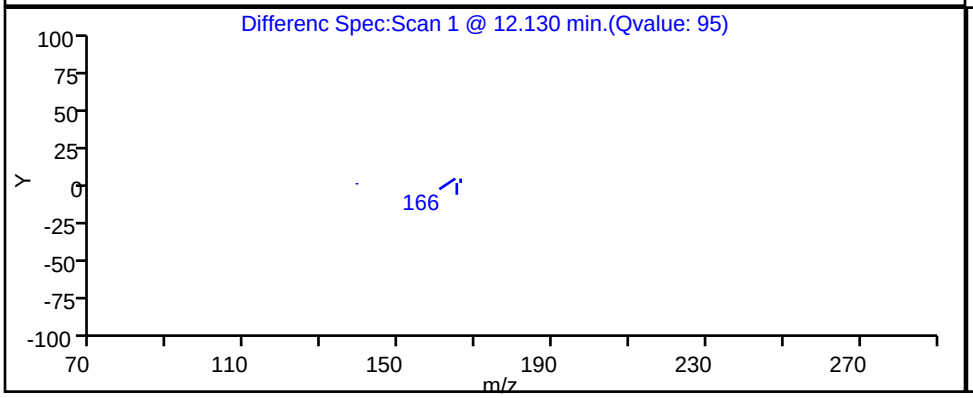


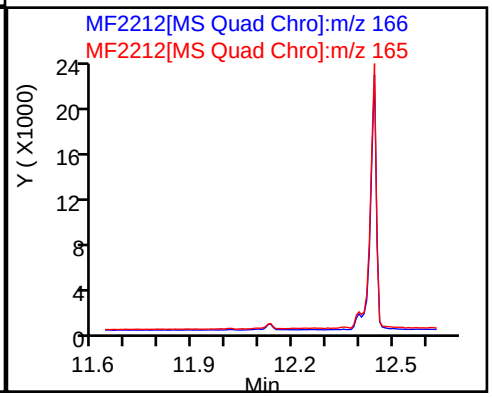












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

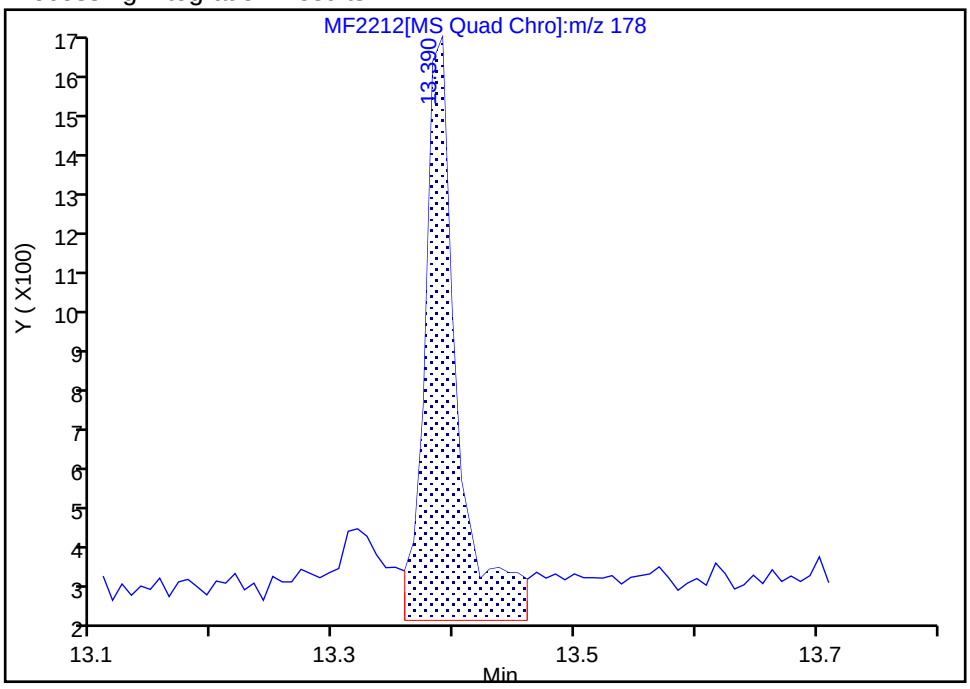
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D				
Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

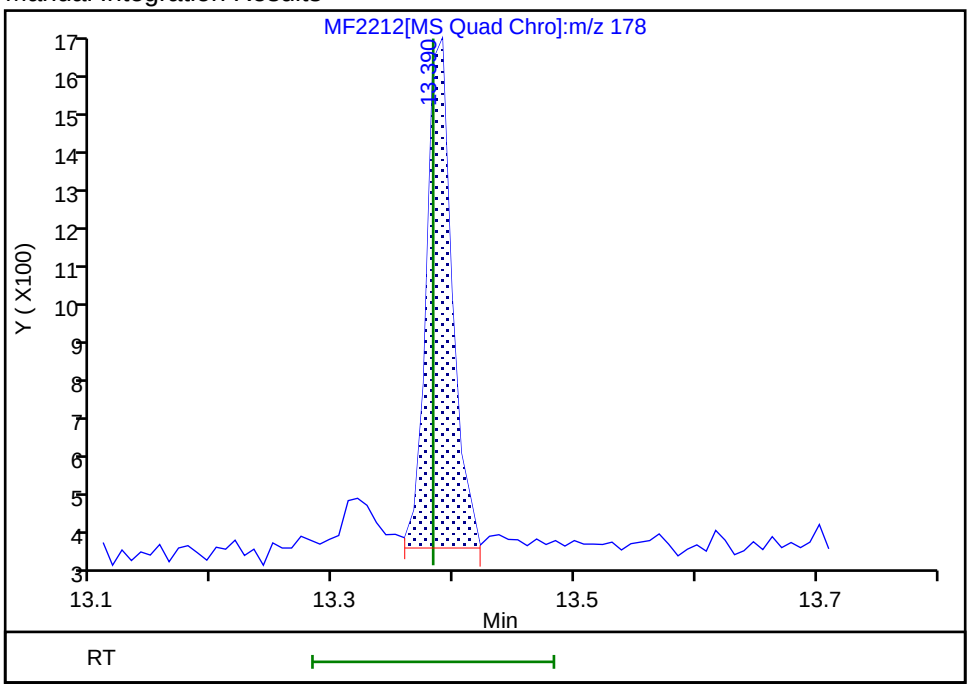
Processing Integration Results

RT: 13.39
Area: 2535
Amount: 0.014230
Amount Units: ug/ml



Manual Integration Results

RT: 13.39
Area: 1922
Amount: 0.010789
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:33:29
Audit Action: Manually Integrated Audit Reason: Baseline

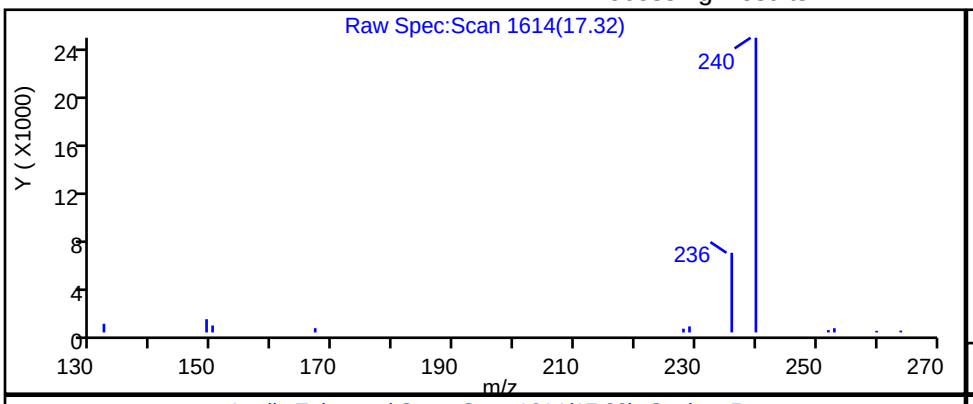
User Disabled Compound Report

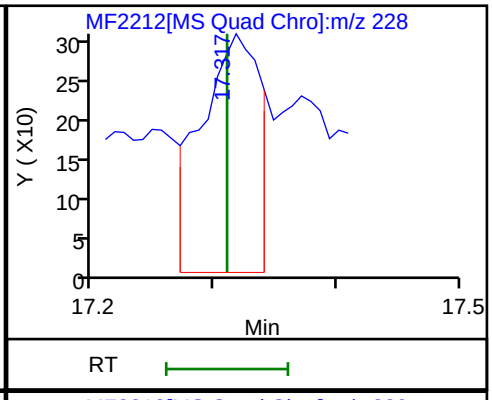
Eurofins Lancaster Laboratories Environment Testing, LLC

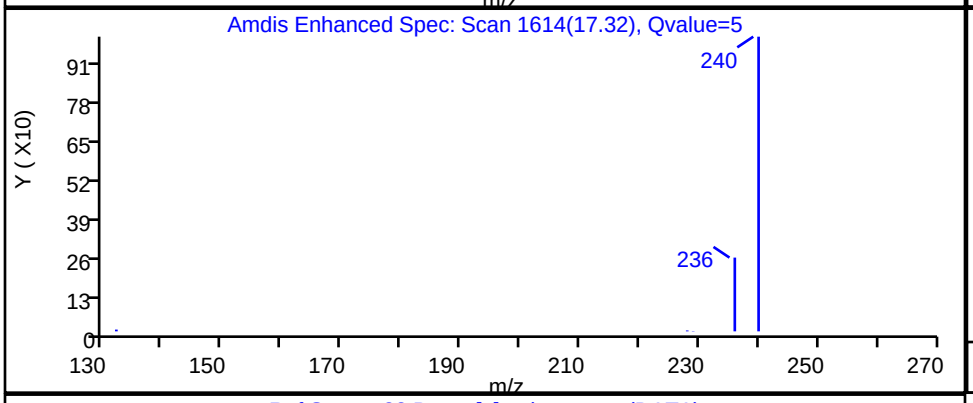
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Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

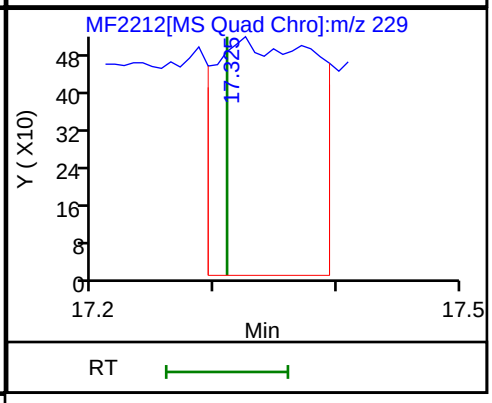
28 Benzo[a]anthracene, CAS: 56-55-3

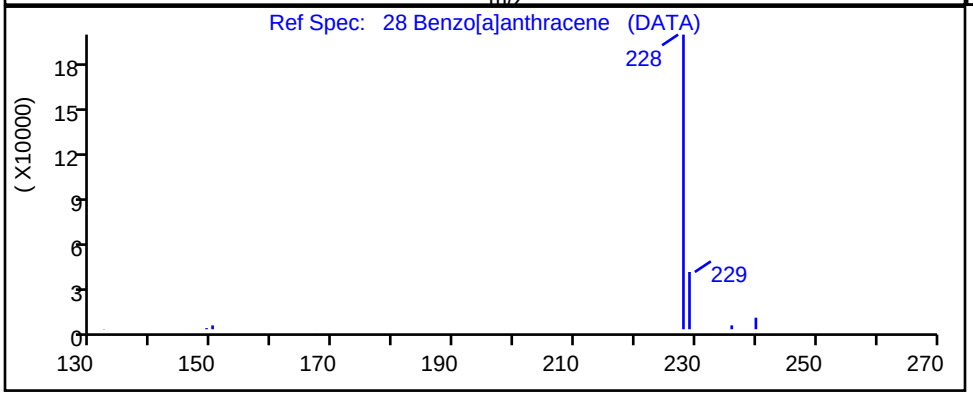
Processing Results











RT	Mass	Response	Amount
17.32	228.00	993	0.003511
17.32	229.00	2865	

Reviewer: gamblerj, 01-Jul-2021 09:33:35

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

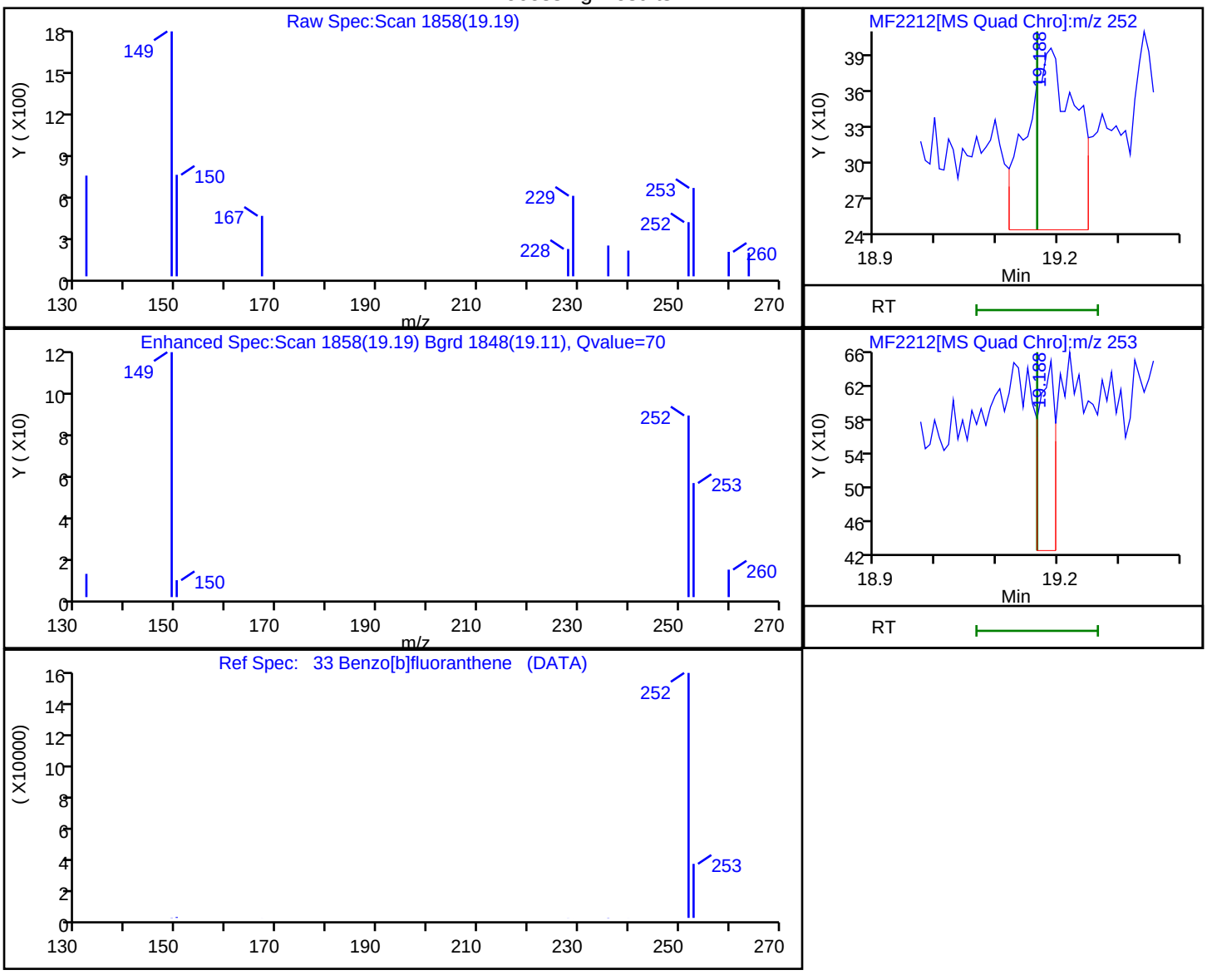
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D				
Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Processing Results



RT	Mass	Response	Amount
19.19	252.00	809	0.002863
19.19	253.00	337	

Reviewer: gamblerj, 01-Jul-2021 09:33:39

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

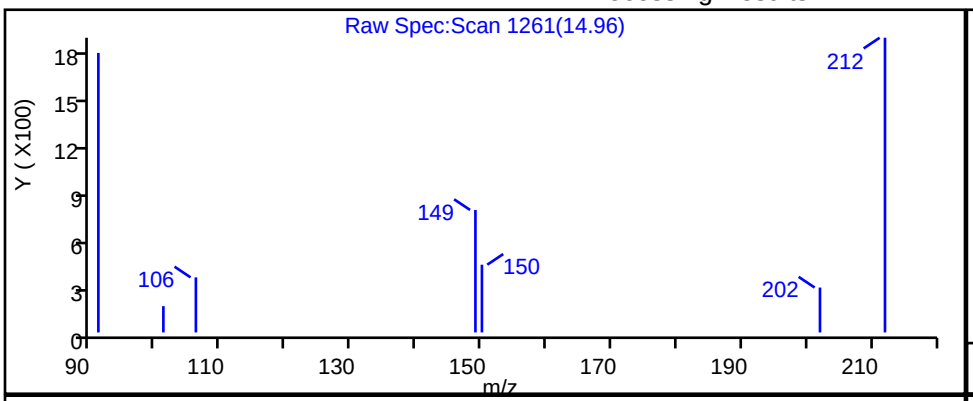
User Disabled Compound Report

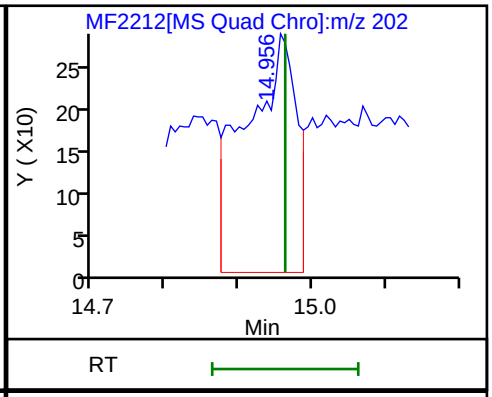
Eurofins Lancaster Laboratories Environment Testing, LLC

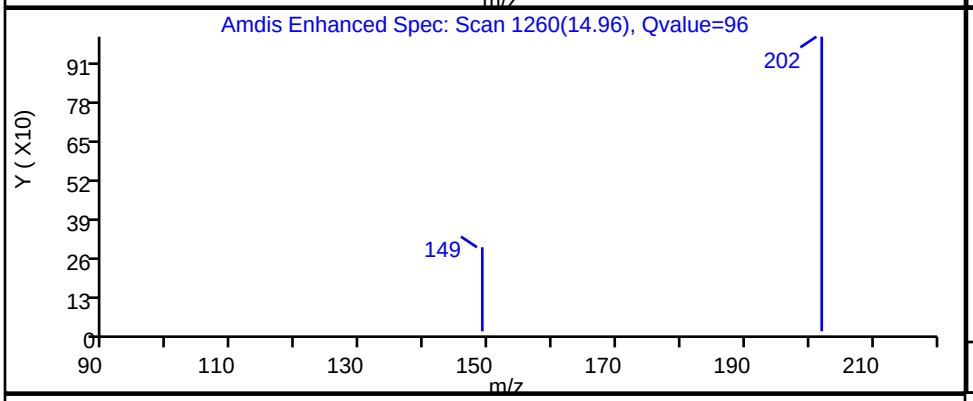
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Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

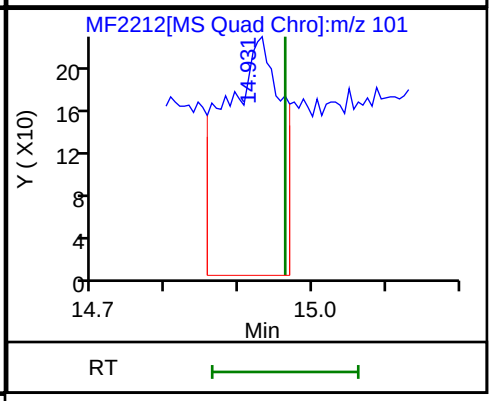
25 Fluoranthene, CAS: 206-44-0

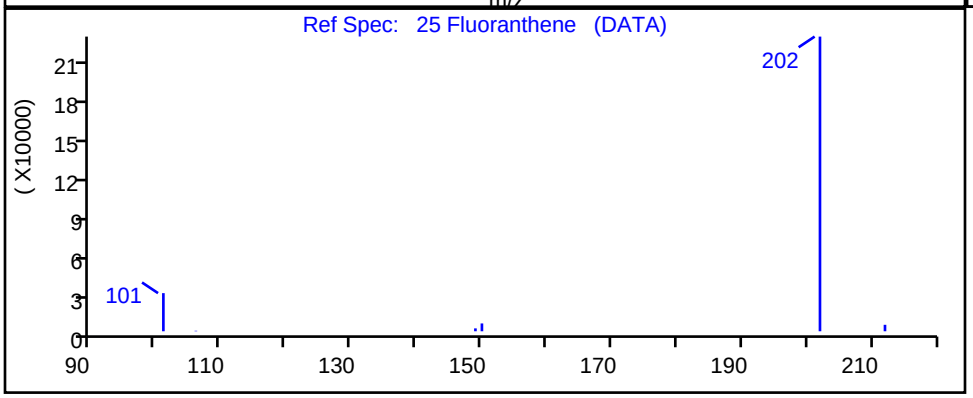
Processing Results











RT	Mass	Response	Amount
14.96	202.00	1363	0.005383
14.93	101.00	1230	

Reviewer: gamblerj, 01-Jul-2021 09:33:33

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

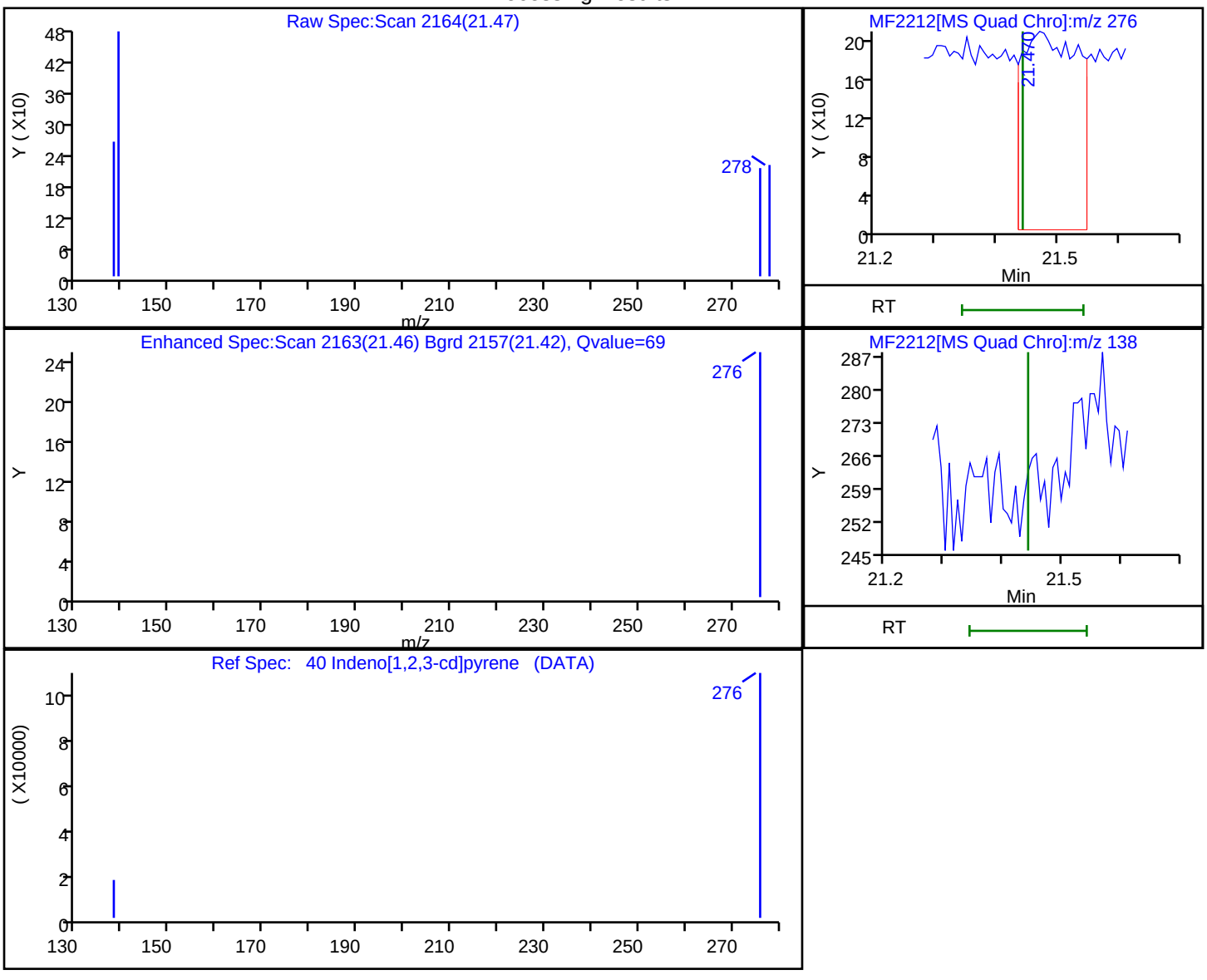
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2212.D				
Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Processing Results



RT	Mass	Response	Amount
21.47	276.00	1301	0.005075
21.44	138.00	0	

Reviewer: gamblerj, 01-Jul-2021 09:33:43

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

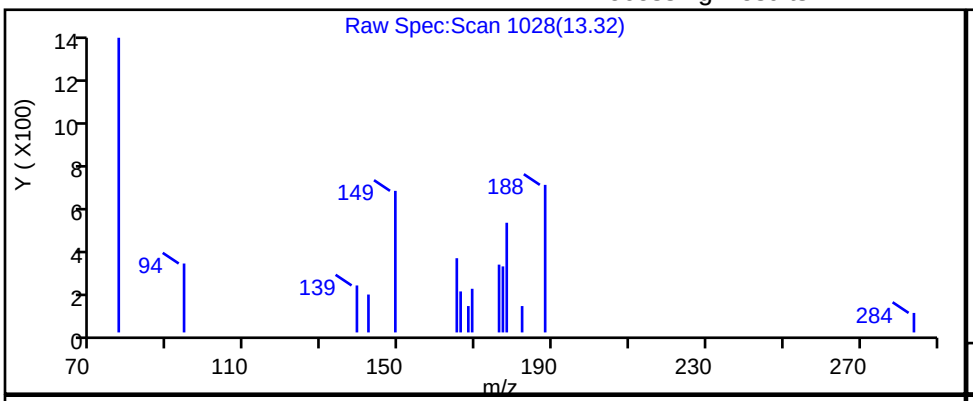
User Disabled Compound Report

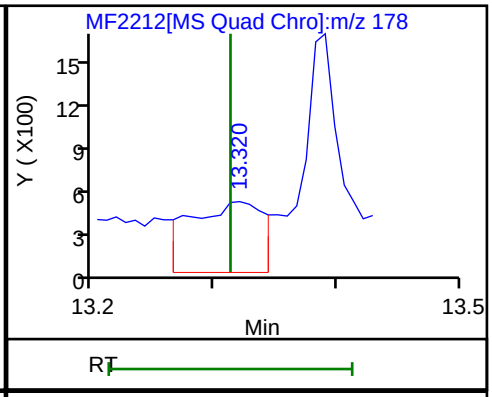
Eurofins Lancaster Laboratories Environment Testing, LLC

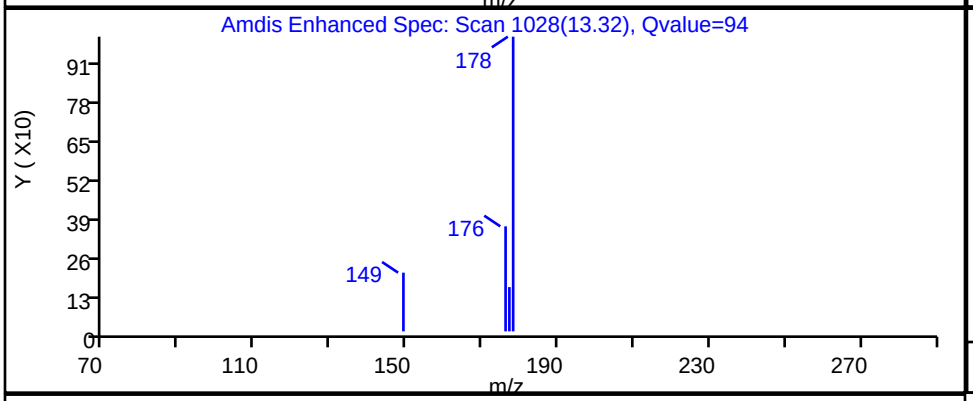
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Injection Date:	01-Jul-2021 03:01:35	Instrument ID:	HP21585		
Lims ID:	410-45105-A-6-A	Lab Sample ID:	410-45105-6		
Client ID:	MW-7S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

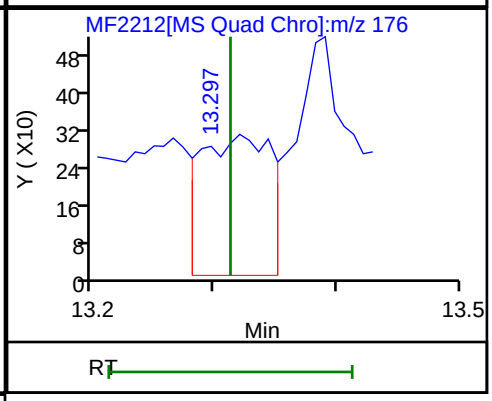
21 Phenanthrene, CAS: 85-01-8

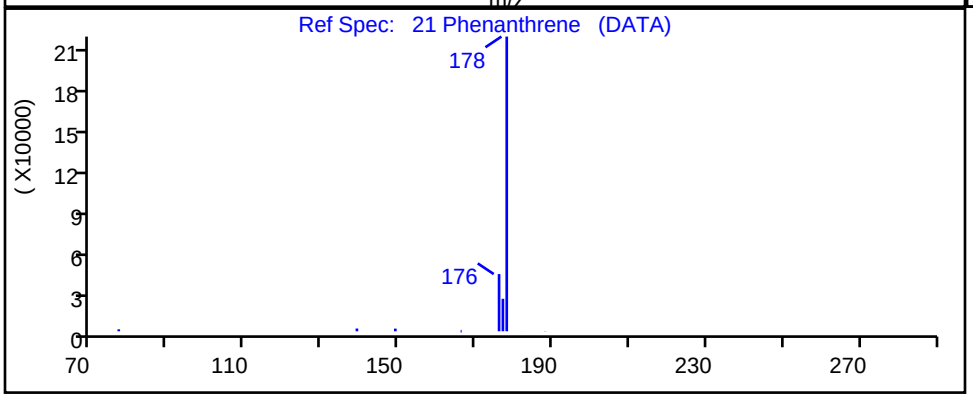
Processing Results











RT	Mass	Response	Amount
13.32	178.00	1982	0.010274
13.30	176.00	1175	

Reviewer: gamblerj, 01-Jul-2021 09:33:22

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-7D-20210623 Lab Sample ID: 410-45105-7

Matrix: Groundwater Lab File ID: MF2213.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 11:29

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 245.5(mL) Date Analyzed: 07/01/2021 03:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	ND		0.071	0.031
85-01-8	Phenanthrene	ND		0.071	0.031
129-00-0	Pyrene	0.012	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	68		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		36-111
93951-69-0	Fluoranthene-d10 (Surr)	87		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2213.D				
Lims ID:	410-45105-A-7-A				
Client ID:	MW-7D-20210623				
Sample Type:	Client				
Inject. Date:	01-Jul-2021 03:32:10	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-45105-A-7-A				
Misc. Info.:	410-0033298-014				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Jul-2021 09:45:43	Calib Date:	03-Jun-2021 11:51:27		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1647				
First Level Reviewer: gamblerj		Date:	01-Jul-2021 09:35:05		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.689	6.689	0.000	87	10489	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	36159	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.826	9.825	0.001	100	17933	0.1908	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	96	23812	0.2500	
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	95	47820	0.2500	
21 Phenanthrene	178	13.312	13.312	0.000	100	915	0.004499	7M
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	48805	0.2181	
25 Fluoranthene	202	14.962	14.956	0.000	97	625	0.002341	7M
26 Pyrene	202	15.313	15.313	0.006	97	779	0.002956	M
28 Benzo[a]anthracene	228	17.317	17.310	0.007	5	422	0.001529	7M
* 29 Chrysene-d12	240	17.333	17.325	0.008	55	53217	0.2500	
30 Chrysene	228	17.379	17.371	0.008	100	438	0.001505	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.672	19.664	0.016	98	34493	0.1690	
* 38 Perylene-d12	264	19.795	19.787	0.008	98	53379	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

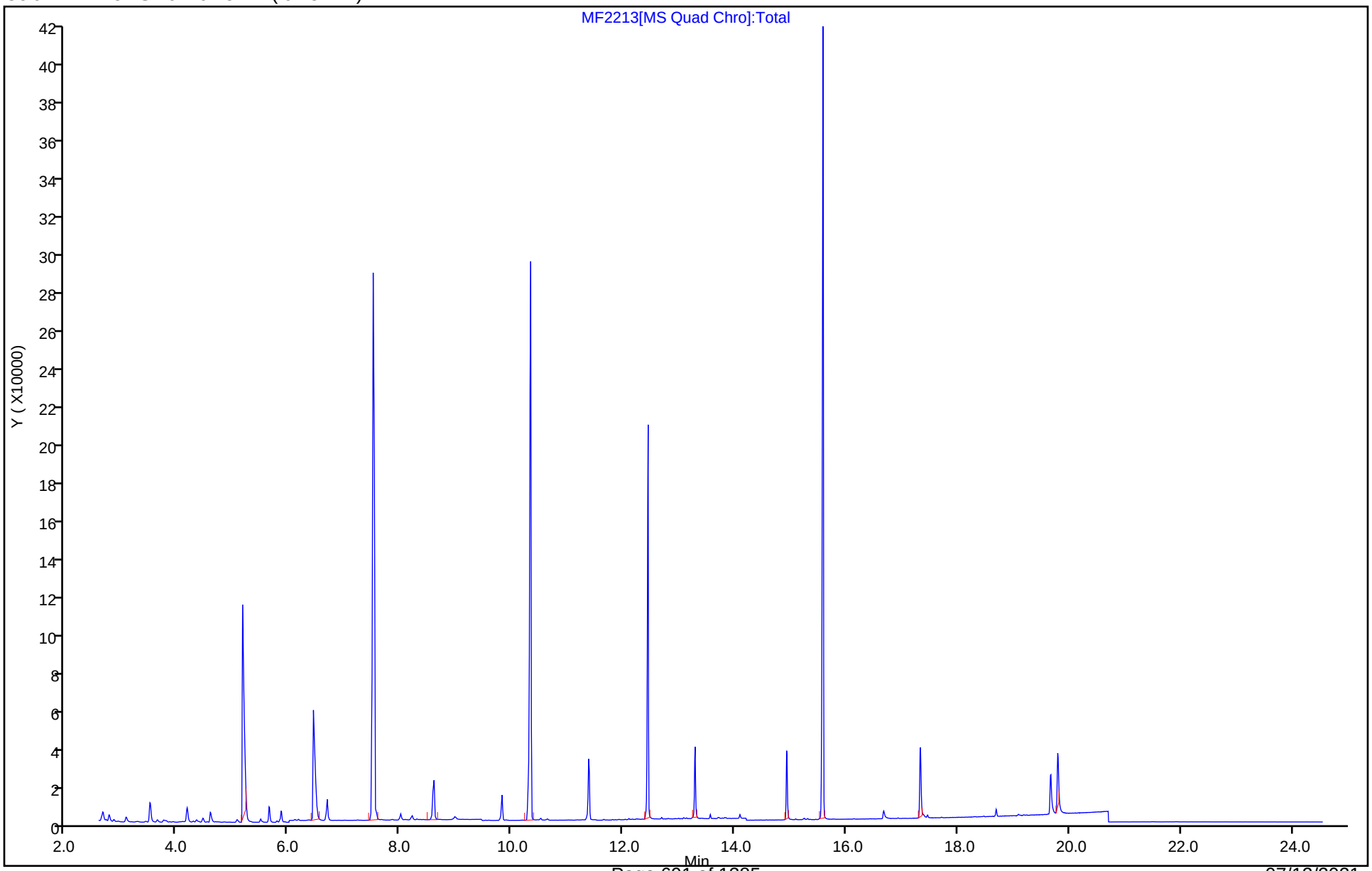
Report Date: 01-Jul-2021 09:47:42 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2213.D

Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7	Worklist Smp#:	14
Client ID:	MW-7D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



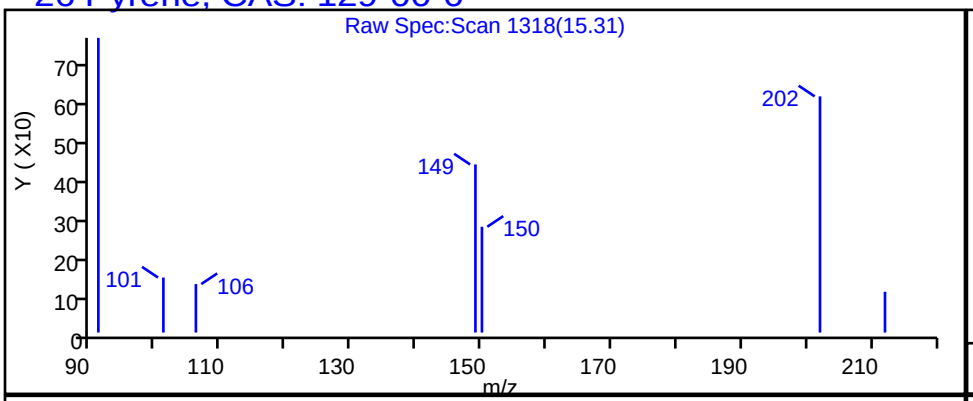
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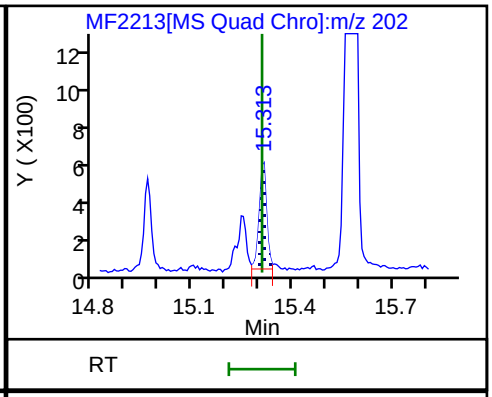
Eurofins Lancaster Laboratories Environment Testing, LLC

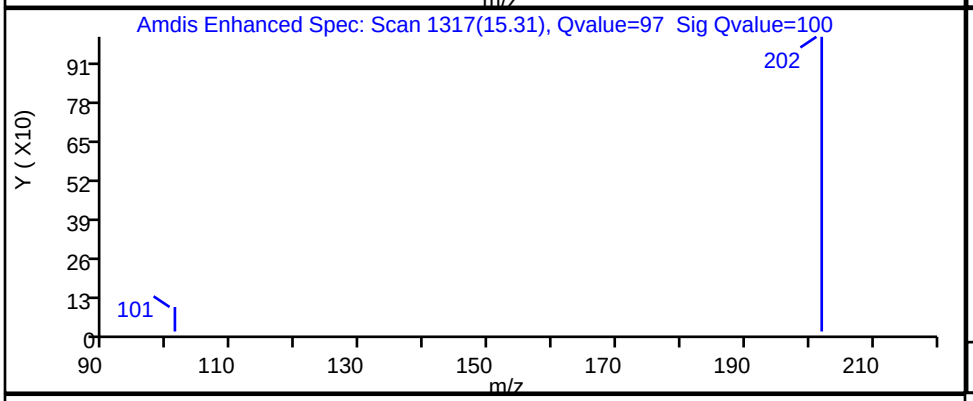
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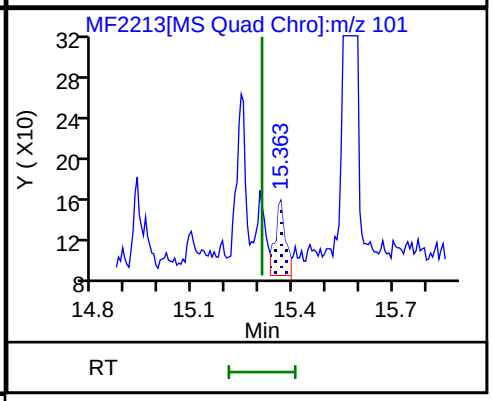
Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

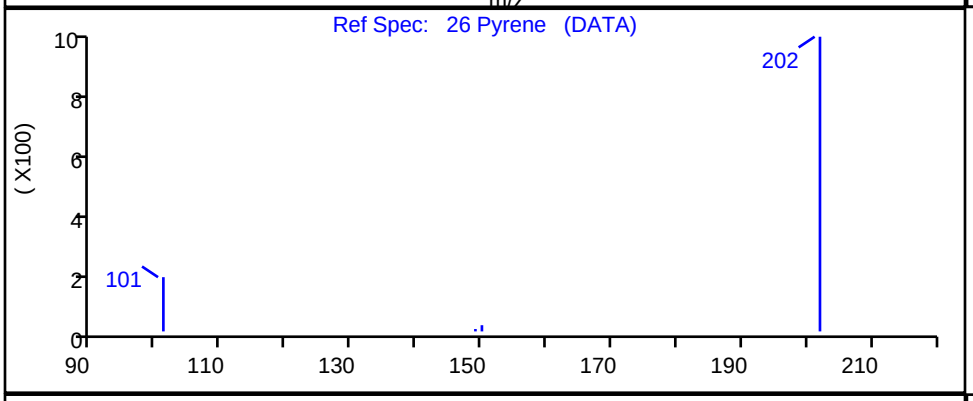
26 Pyrene, CAS: 129-00-0

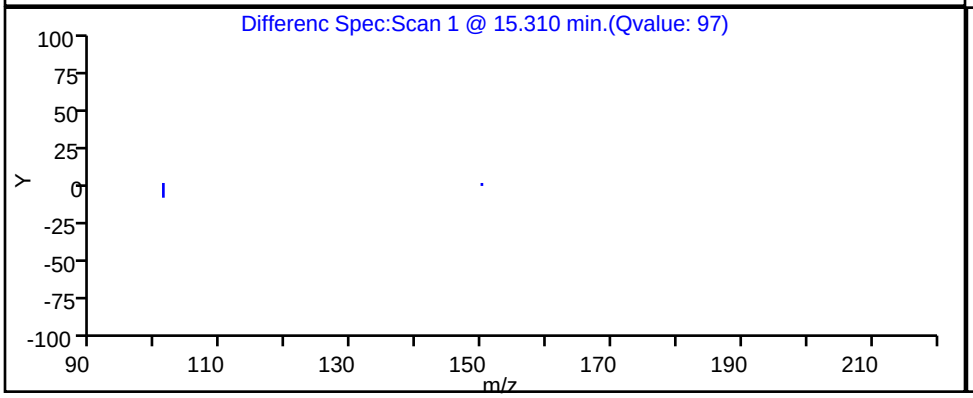


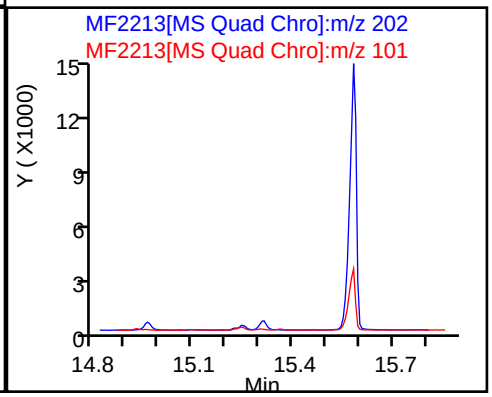












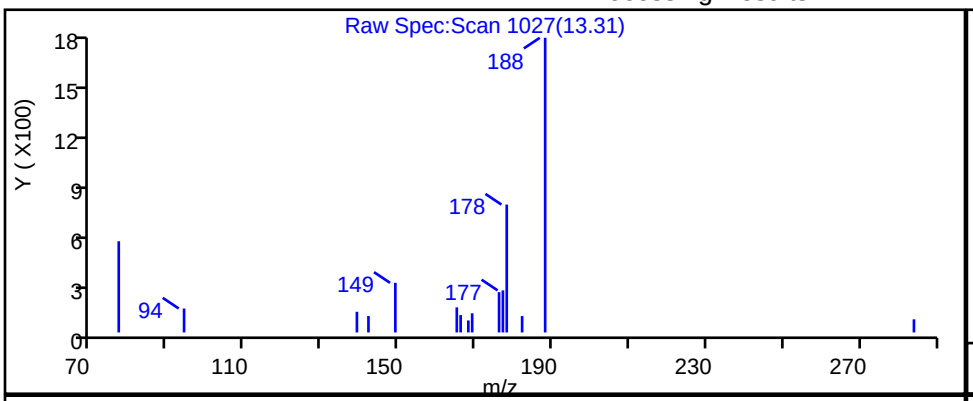
User Disabled Compound Report

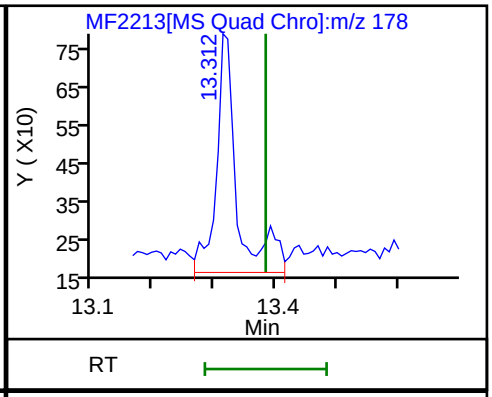
Eurofins Lancaster Laboratories Environment Testing, LLC

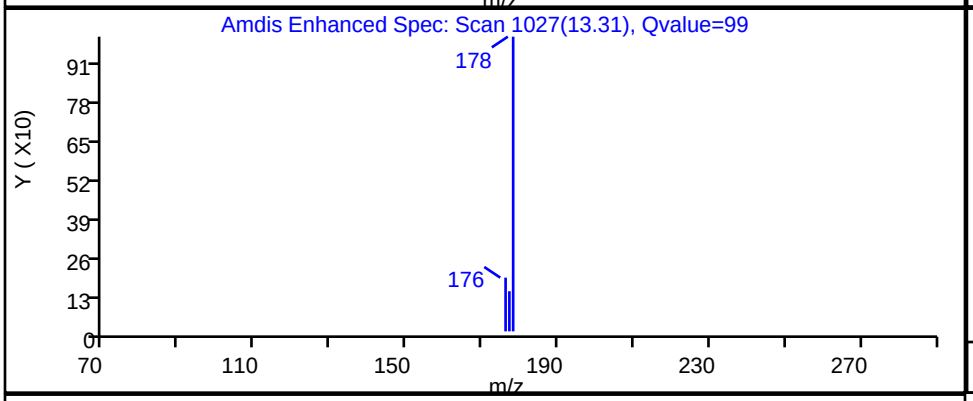
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Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

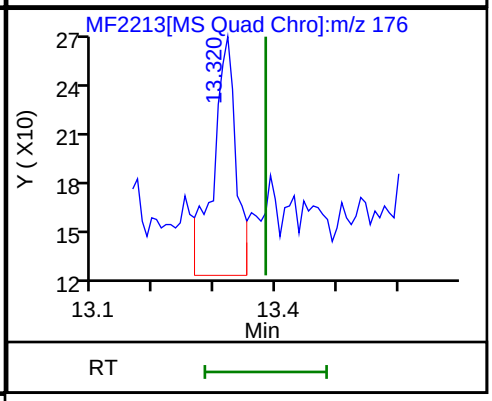
22 Anthracene, CAS: 120-12-7

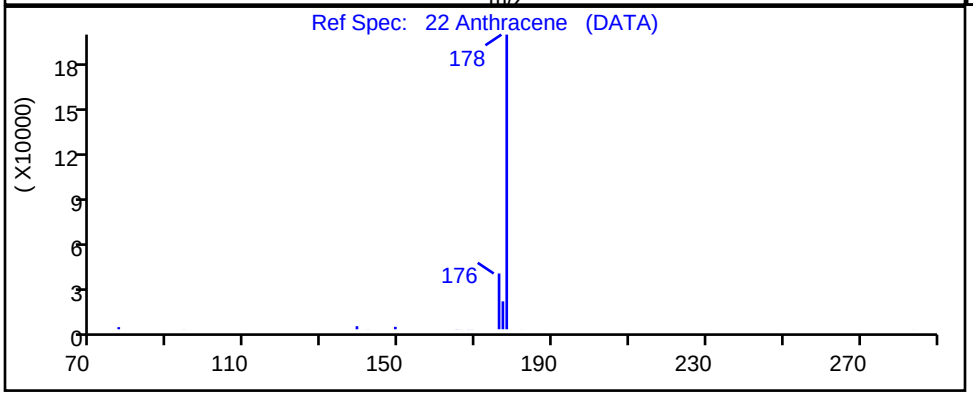
Processing Results











RT	Mass	Response	Amount
13.31	178.00	1451	0.007726
13.32	176.00	356	

Reviewer: gamblerj, 01-Jul-2021 09:34:24

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

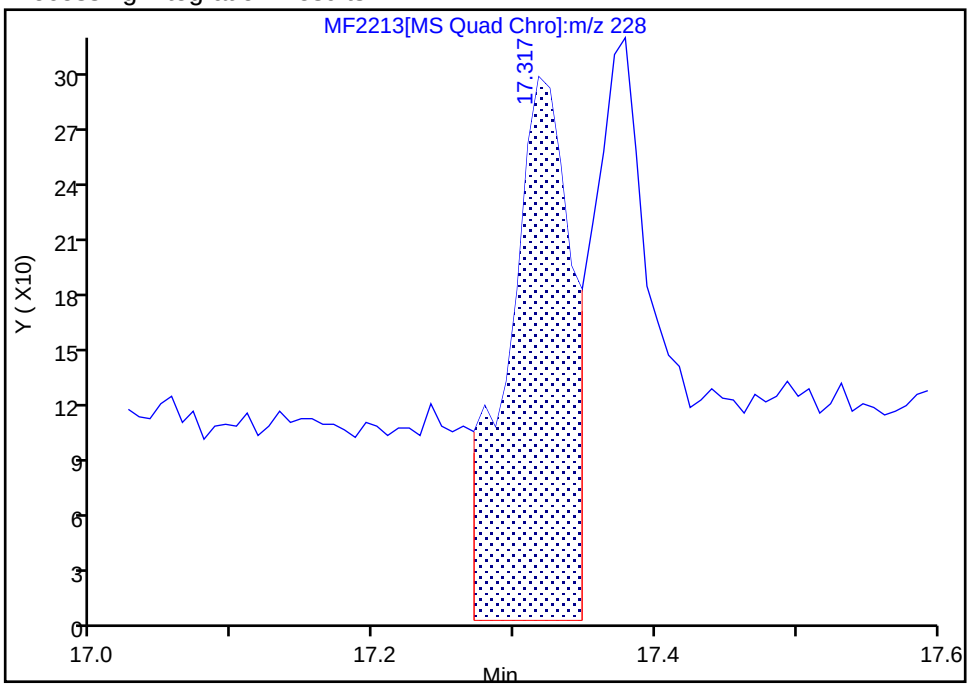
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Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

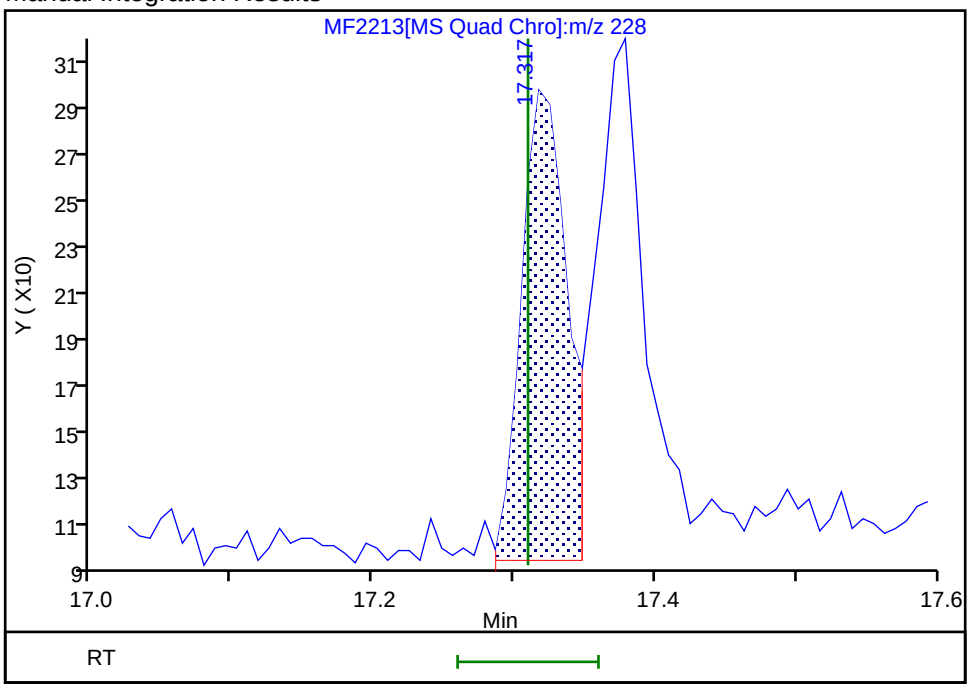
Processing Integration Results

RT: 17.32
Area: 887
Amount: 0.003214
Amount Units: ug/ml



Manual Integration Results

RT: 17.32
Area: 422
Amount: 0.001529
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:34:45

Audit Action: Manually Integrated Audit Reason: Baseline

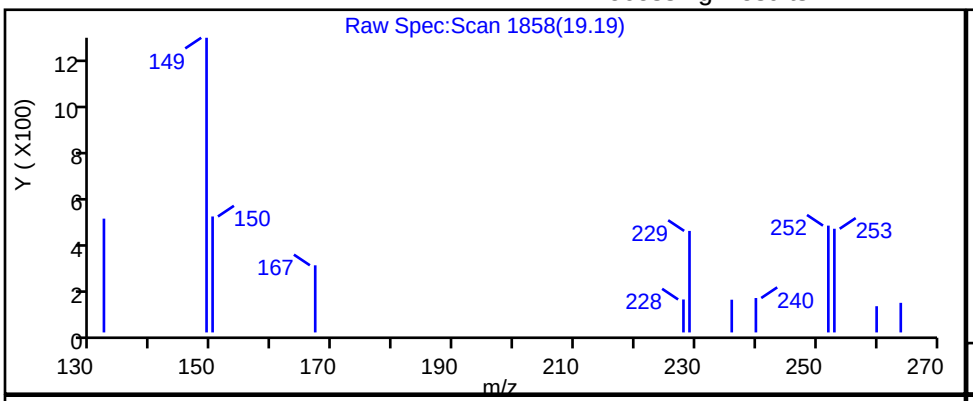
User Disabled Compound Report

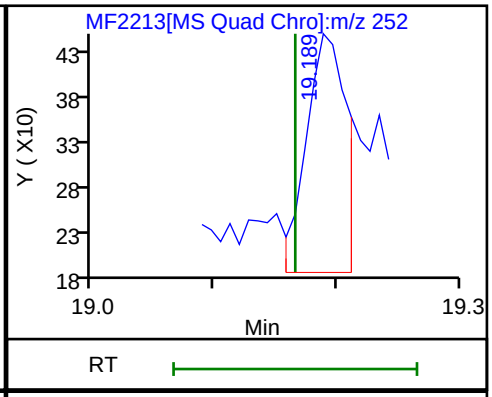
Eurofins Lancaster Laboratories Environment Testing, LLC

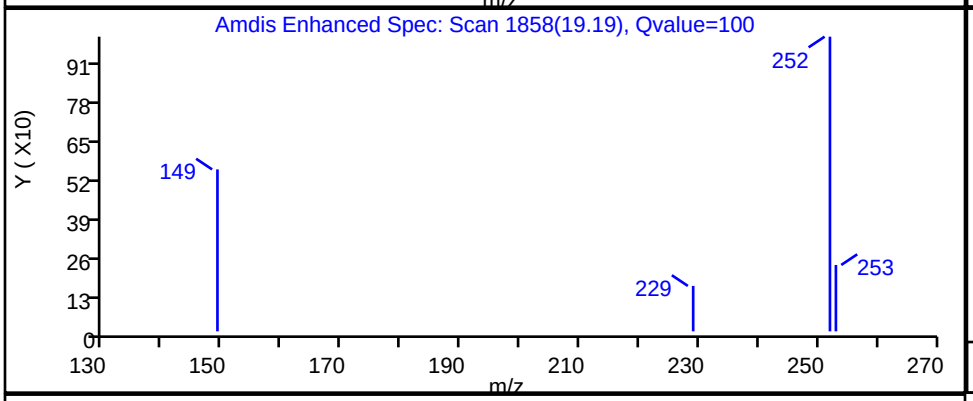
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2213.D				
Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

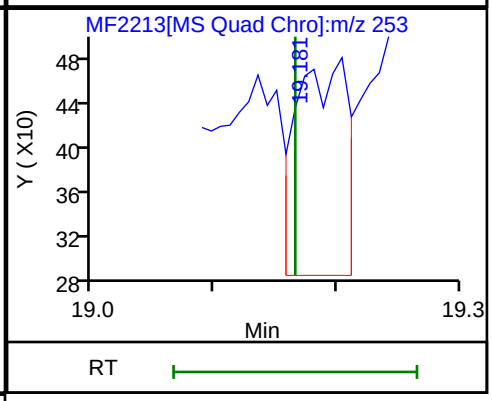
33 Benzo[b]fluoranthene, CAS: 205-99-2

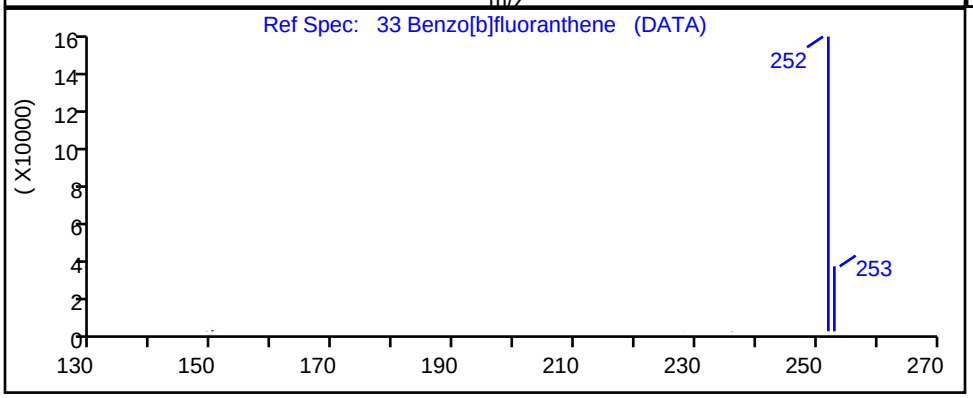
Processing Results











RT	Mass	Response	Amount
19.19	252.00	567	0.002281
19.18	253.00	513	

Reviewer: gamblerj, 01-Jul-2021 09:34:56

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

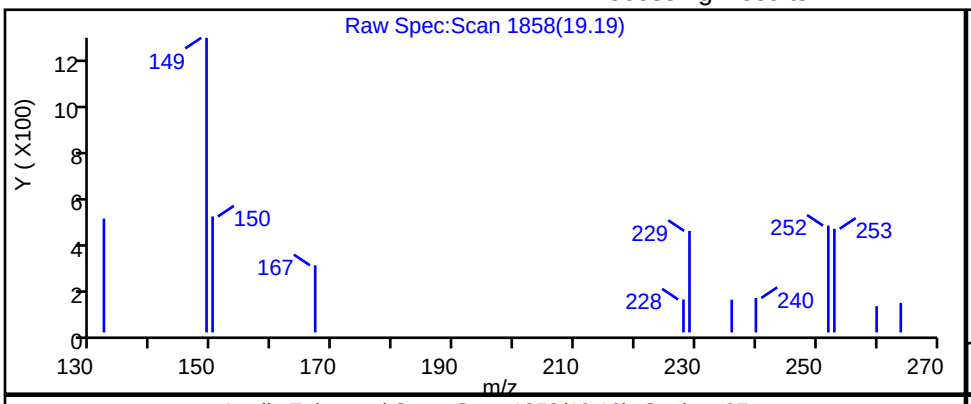
User Disabled Compound Report

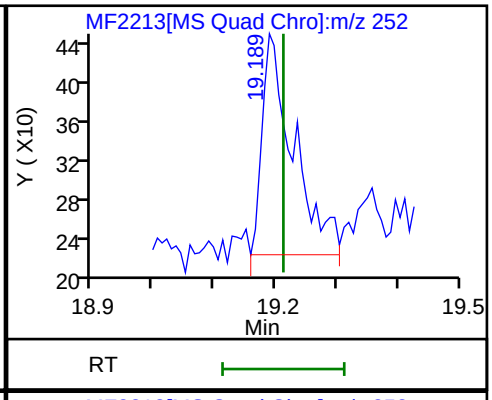
Eurofins Lancaster Laboratories Environment Testing, LLC

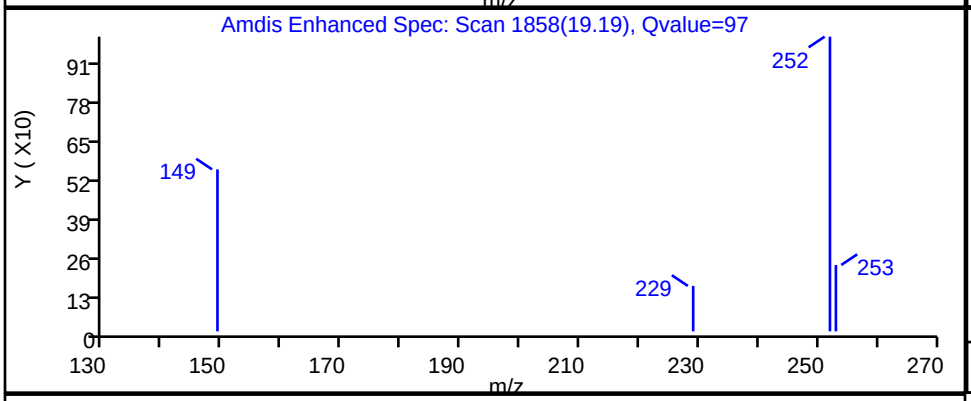
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Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

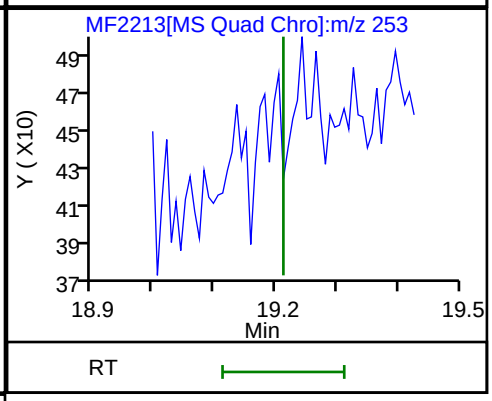
34 Benzo[k]fluoranthene, CAS: 207-08-9

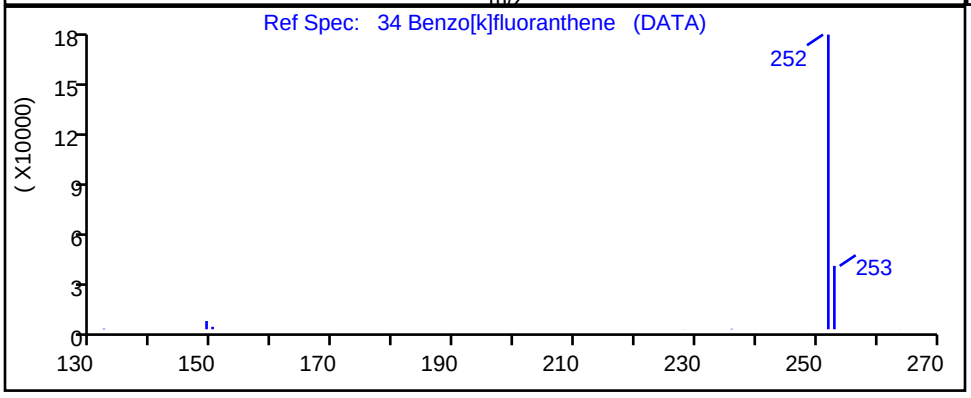
Processing Results











RT	Mass	Response	Amount
19.19	252.00	795	0.002950
19.21	253.00	0	

Reviewer: gamblerj, 01-Jul-2021 09:34:58

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

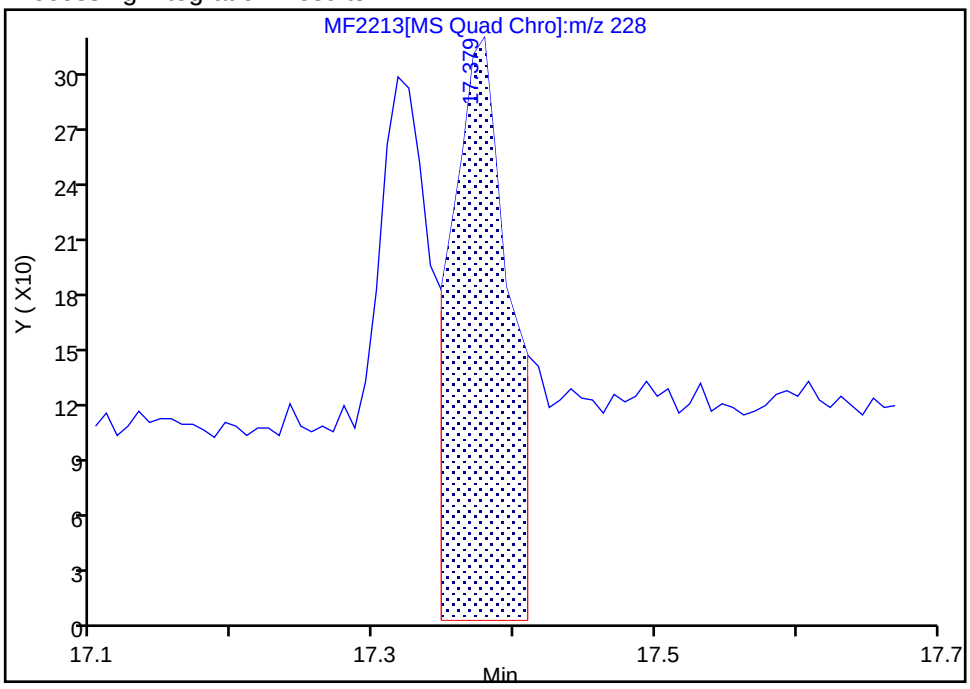
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Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

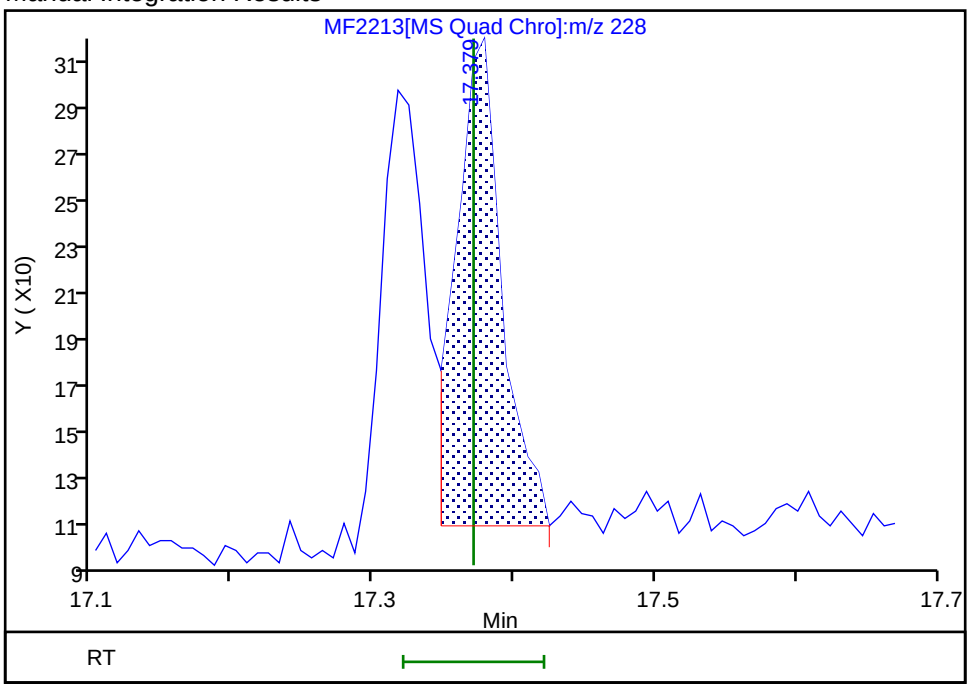
Processing Integration Results

RT: 17.38
Area: 841
Amount: 0.002890
Amount Units: ug/ml



Manual Integration Results

RT: 17.38
Area: 438
Amount: 0.001505
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:34:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

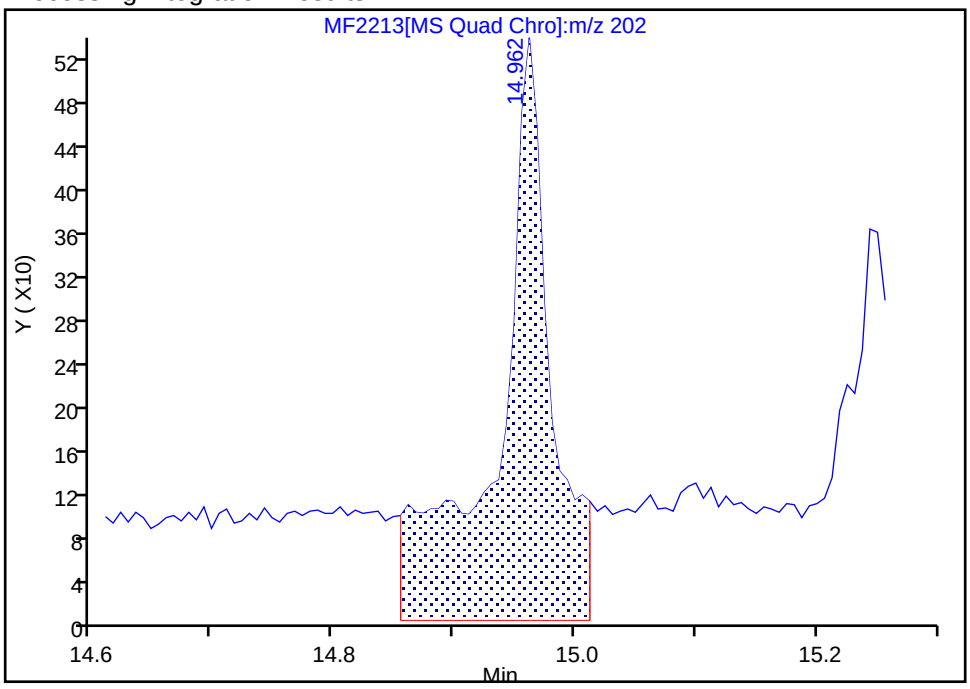
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Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

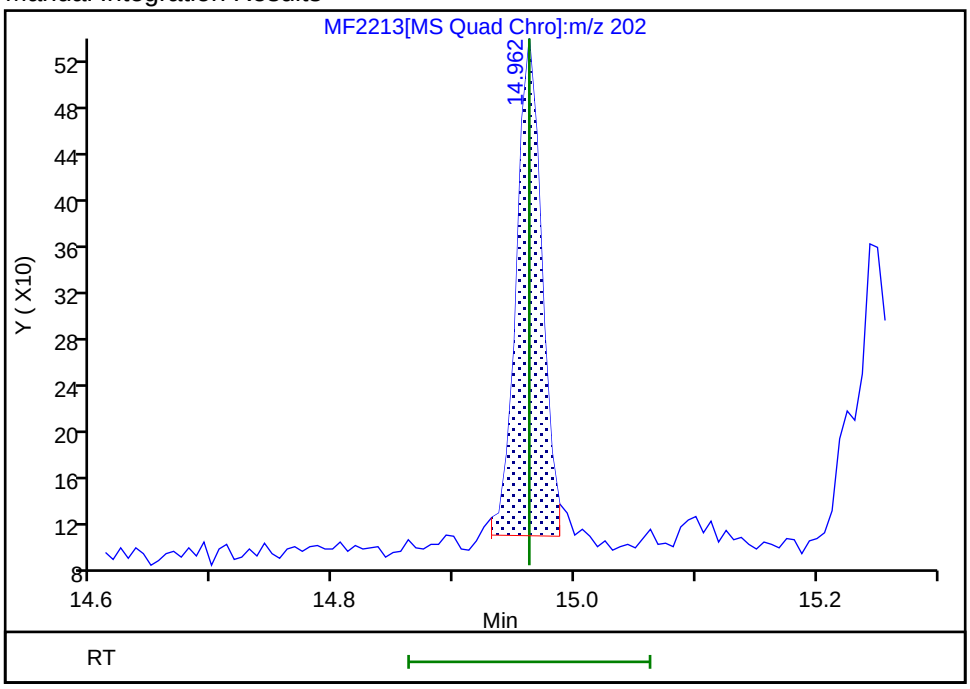
Processing Integration Results

RT: 14.96
Area: 1655
Amount: 0.006199
Amount Units: ug/ml



Manual Integration Results

RT: 14.96
Area: 625
Amount: 0.002341
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:34:30
Audit Action: Manually Integrated Audit Reason: Baseline

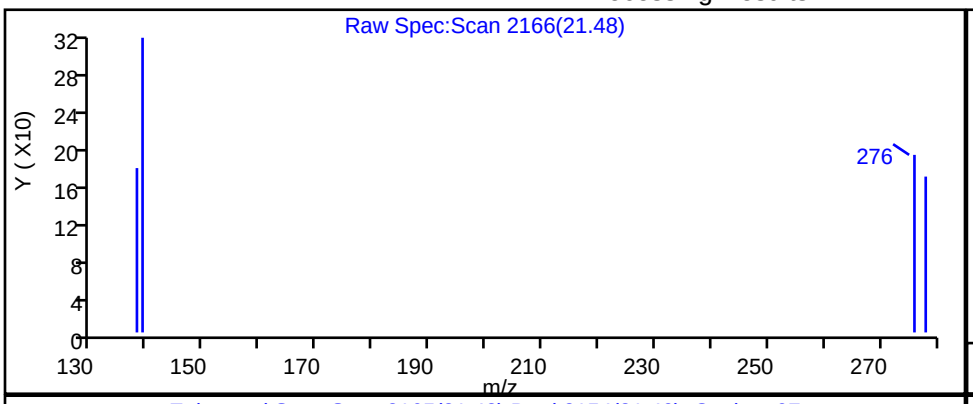
User Disabled Compound Report

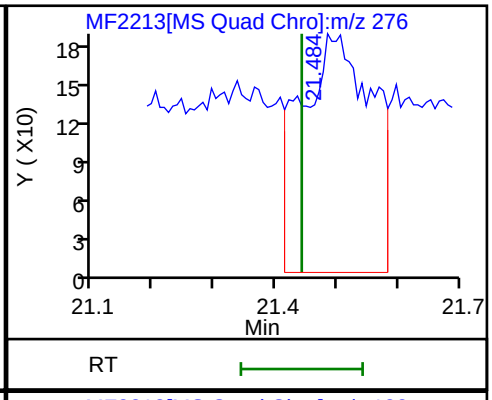
Eurofins Lancaster Laboratories Environment Testing, LLC

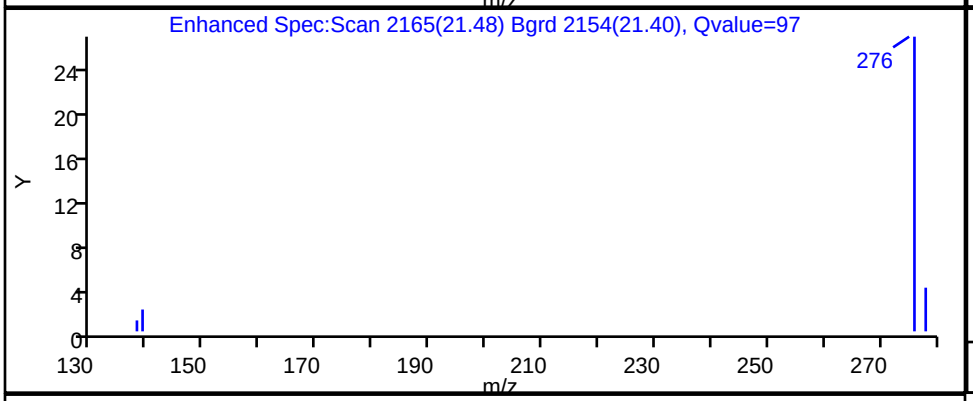
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2213.D				
Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

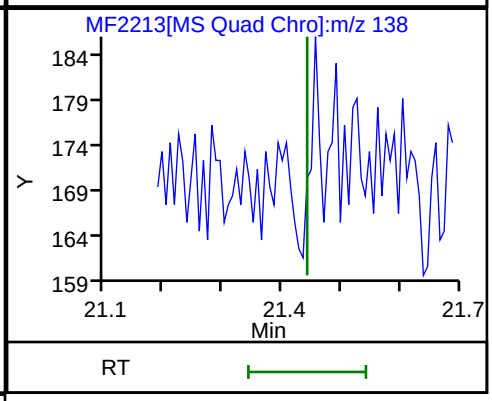
40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

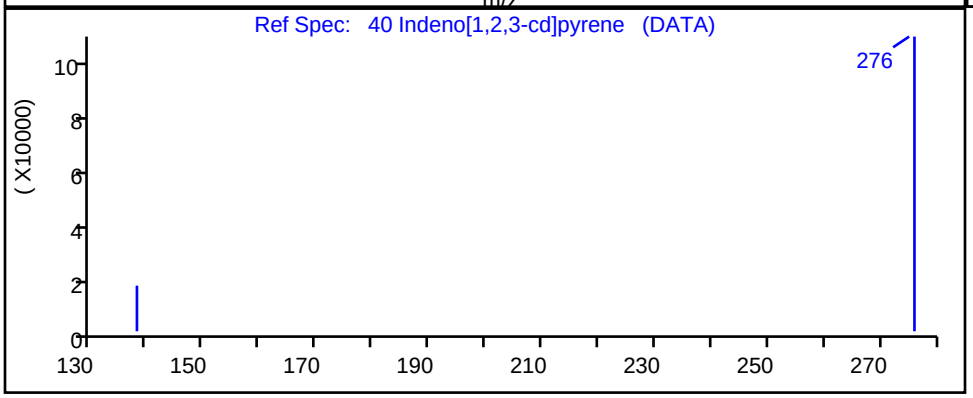
Processing Results











RT	Mass	Response	Amount
21.48	276.00	1519	0.006737
21.44	138.00	0	

Reviewer: gamblerj, 01-Jul-2021 09:35:01

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

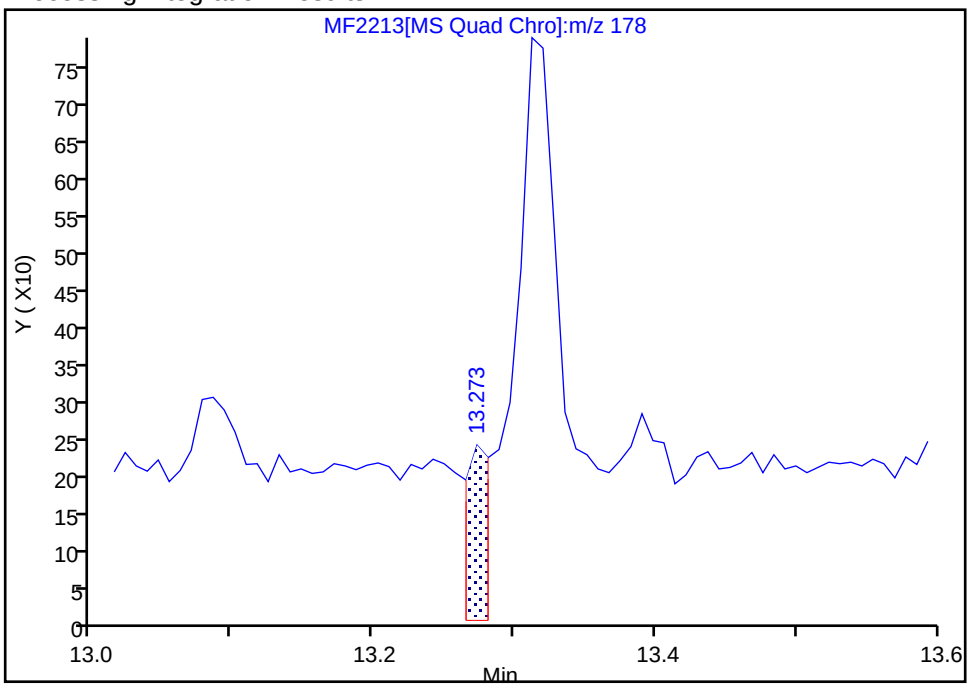
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2213.D				
Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

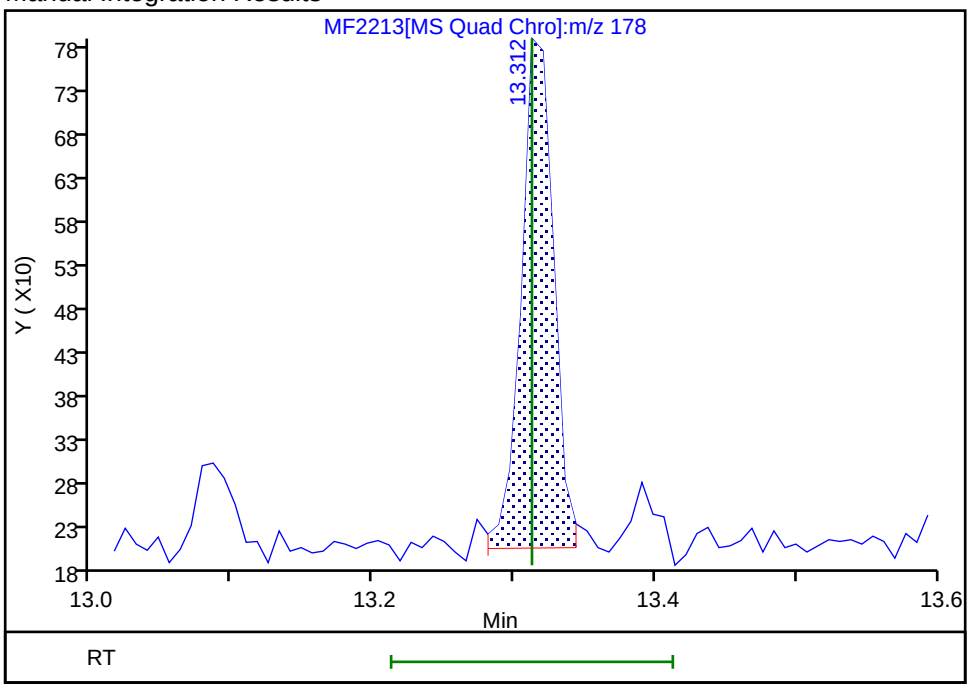
Processing Integration Results

RT: 13.27
Area: 205
Amount: 0.001008
Amount Units: ug/ml



Manual Integration Results

RT: 13.31
Area: 915
Amount: 0.004499
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:34:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

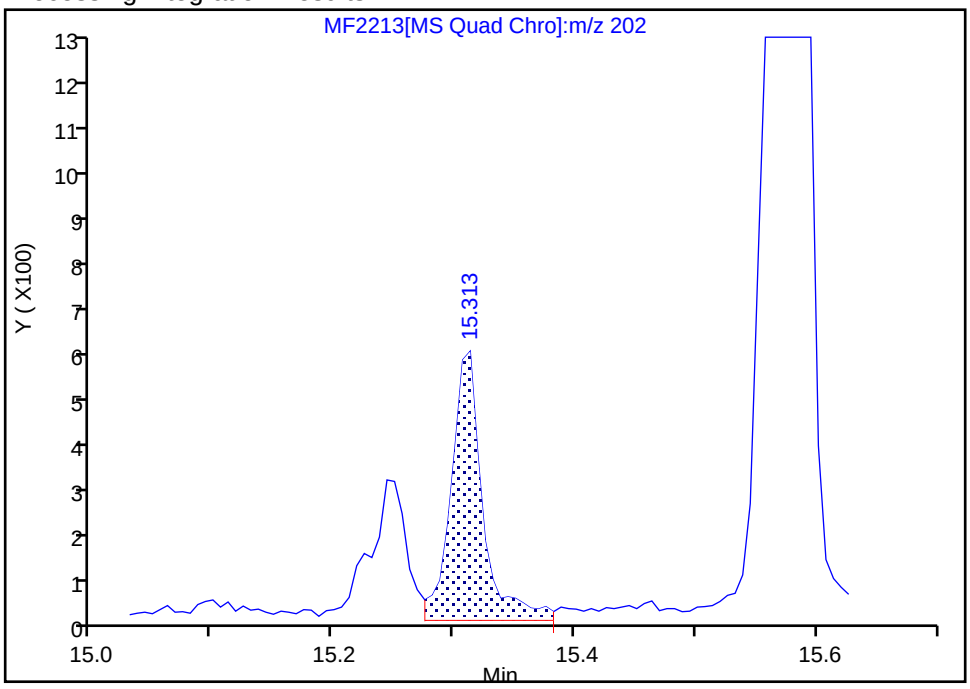
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2213.D				
Injection Date:	01-Jul-2021 03:32:10	Instrument ID:	HP21585		
Lims ID:	410-45105-A-7-A	Lab Sample ID:	410-45105-7		
Client ID:	MW-7D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

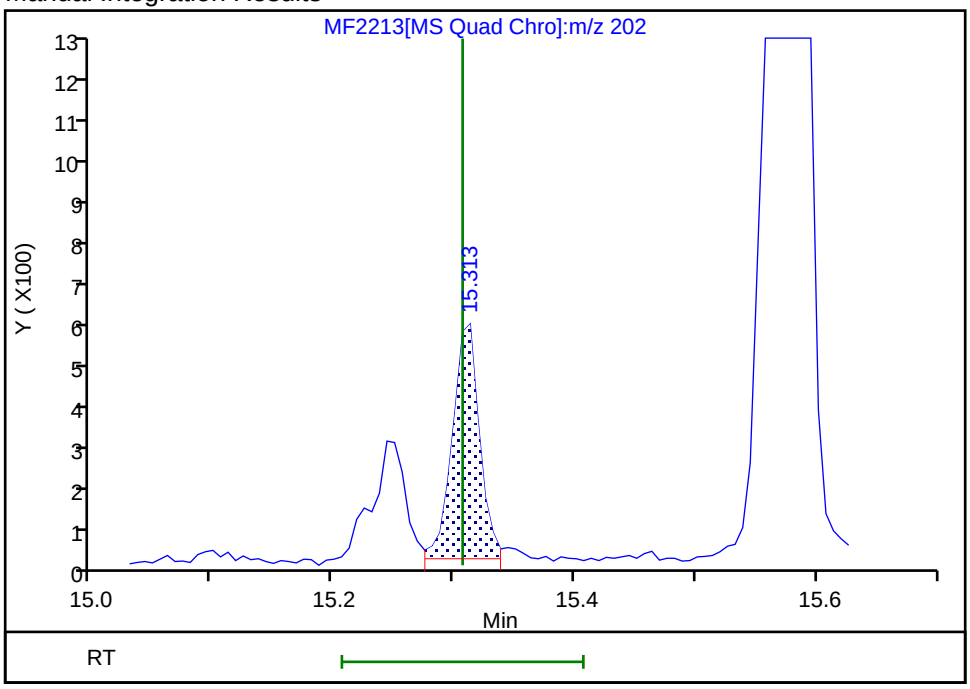
Processing Integration Results

RT: 15.31
Area: 947
Amount: 0.003594
Amount Units: ug/ml



Manual Integration Results

RT: 15.31
Area: 779
Amount: 0.002956
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:34:38

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-14S-20210623 Lab Sample ID: 410-45105-8

Matrix: Groundwater Lab File ID: MF2214.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 13:36

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 240.4(mL) Date Analyzed: 07/01/2021 04:02

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.026	J	0.052	0.010
208-96-8	Acenaphthylene	0.014	J	0.052	0.010
120-12-7	Anthracene	0.015	J	0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	ND		0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	0.021	J	0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	69		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
93951-69-0	Fluoranthene-d10 (Surr)	89		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Lims ID:	410-45105-A-8-A				
Client ID:	MW-14S-20210623				
Sample Type:	Client				
Inject. Date:	01-Jul-2021 04:02:50	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-45105-A-8-A				
Misc. Info.:	410-0033298-015				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Jul-2021 09:45:43	Calib Date:	03-Jun-2021 11:51:27		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1647				
First Level Reviewer: gamblerj		Date:	01-Jul-2021 09:37:37		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	91	10134	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	34394	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	16747	0.1873	
12 Acenaphthylene	152	11.170	11.170	0.000	99	518	0.003376	
* 13 Acenaphthene-d10	164	11.390	11.378	0.012	96	22653	0.2500	
14 Acenaphthene	154	11.427	11.427	0.000	40	613	0.006185	M
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	95	45426	0.2500	
22 Anthracene	178	13.390	13.383	0.007	98	655	0.003671	M
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	47551	0.2237	
25 Fluoranthene	202	14.962	14.956	0.000	97	538	0.002121	7M
26 Pyrene	202	15.307	15.313	0.000	96	1283	0.005004	
* 29 Chrysene-d12	240	17.325	17.325	0.000	55	51777	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.664	19.664	0.008	98	35574	0.1725	
* 38 Perylene-d12	264	19.794	19.787	0.007	98	53931	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

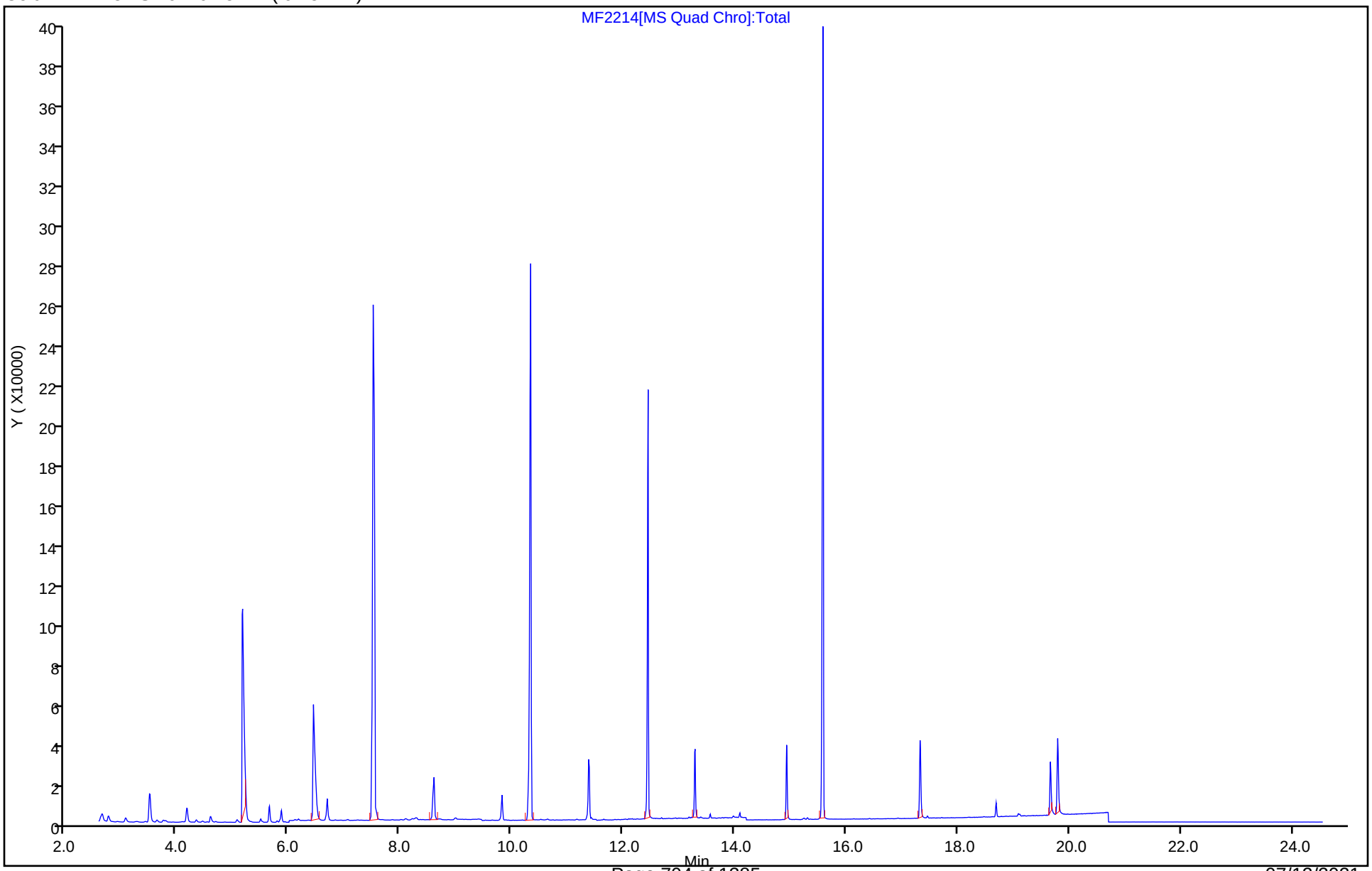
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 01-Jul-2021 09:47:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8	Worklist Smp#:	15
Client ID:	MW-14S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Report Date: 01-Jul-2021 09:47:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D

Injection Date: 01-Jul-2021 04:02:50 Instrument ID: HP21585

Lims ID: 410-45105-A-8-A Lab Sample ID: 410-45105-8

Client ID: MW-14S-20210623

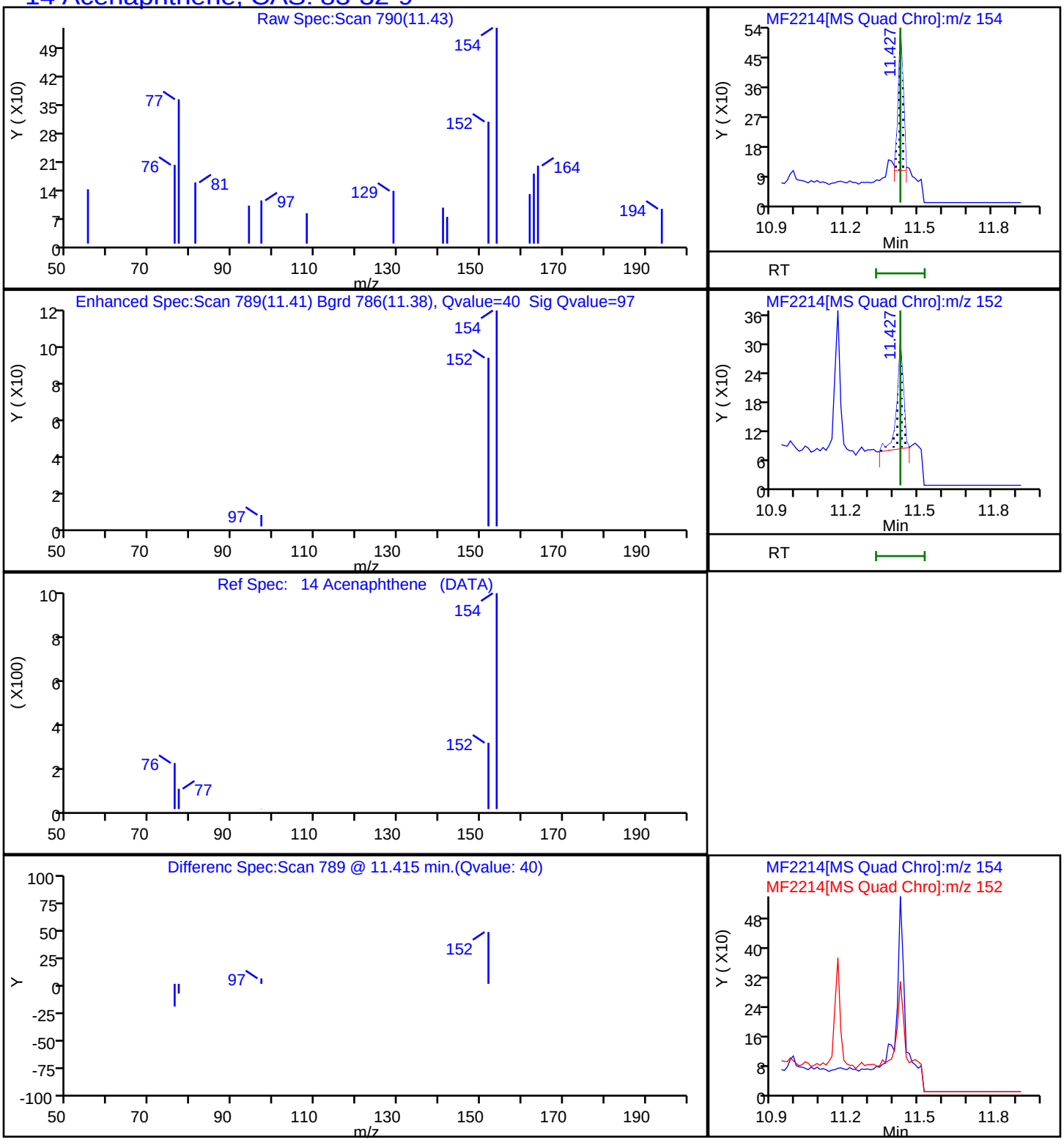
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

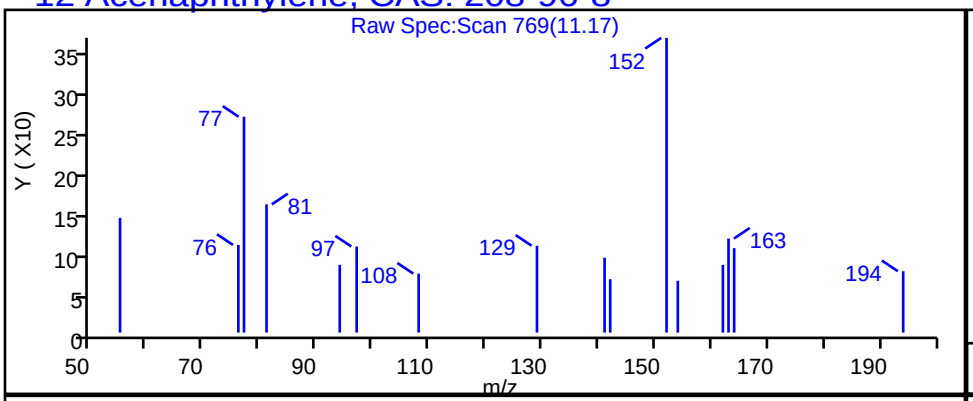
14 Acenaphthene, CAS: 83-32-9

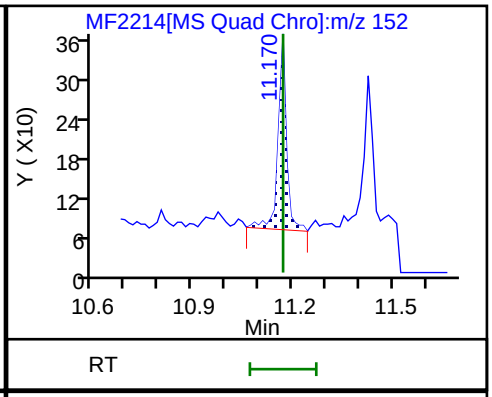


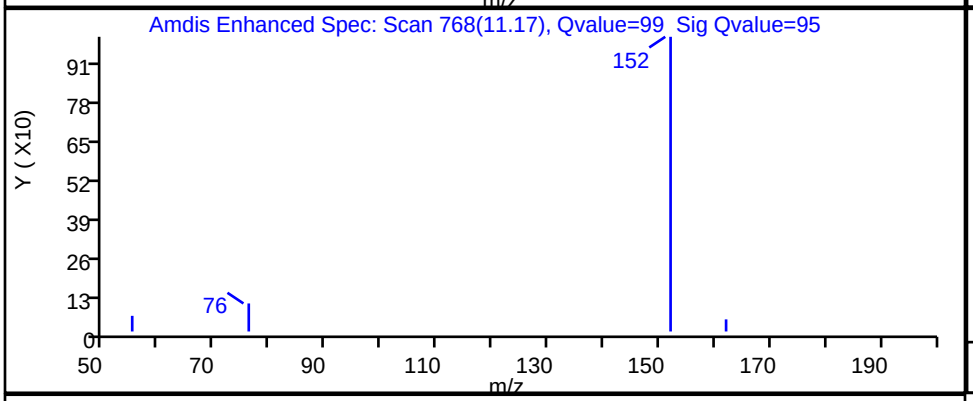
Eurofins Lancaster Laboratories Environment Testing, LLC

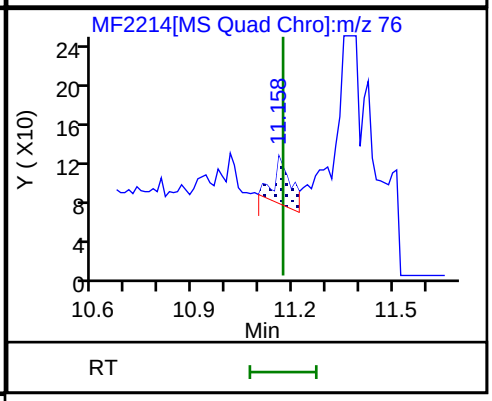
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D		
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8
Client ID:	MW-14S-20210623		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

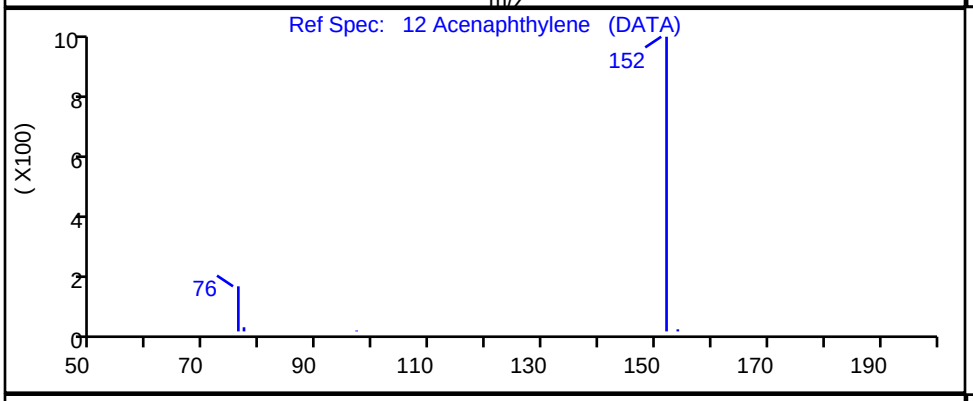
12 Acenaphthylene, CAS: 208-96-8

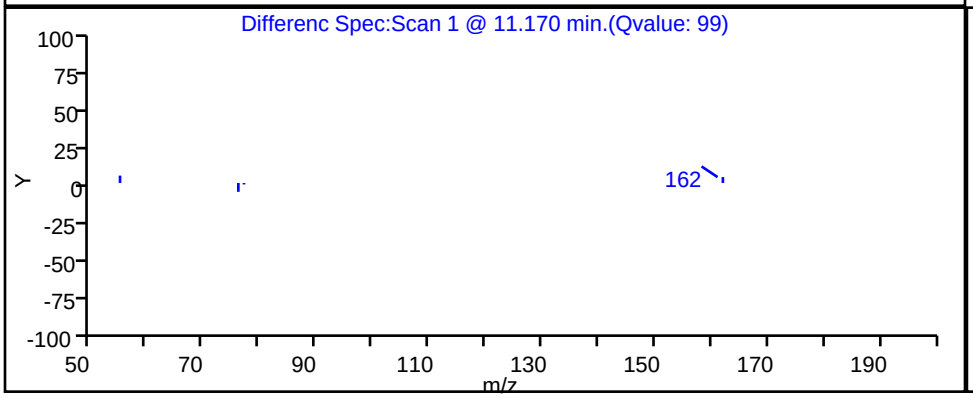


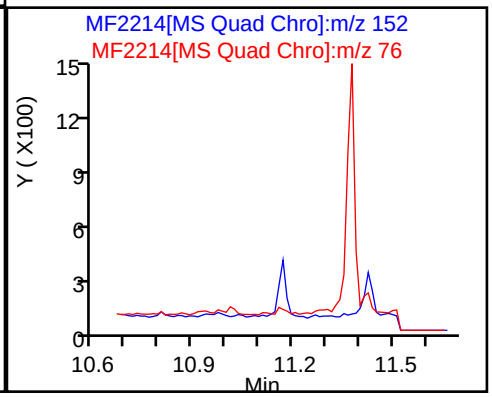








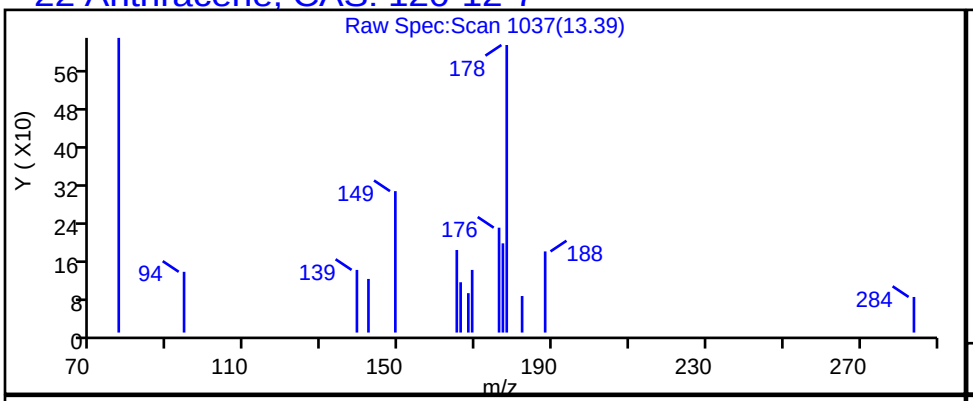


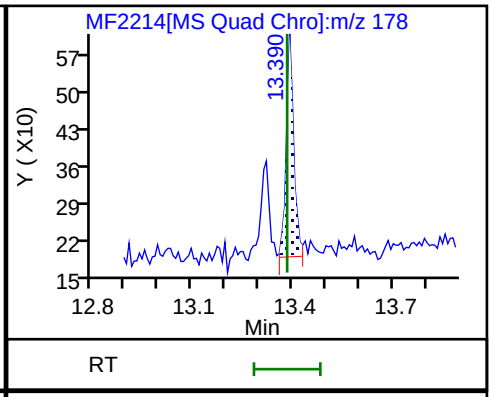


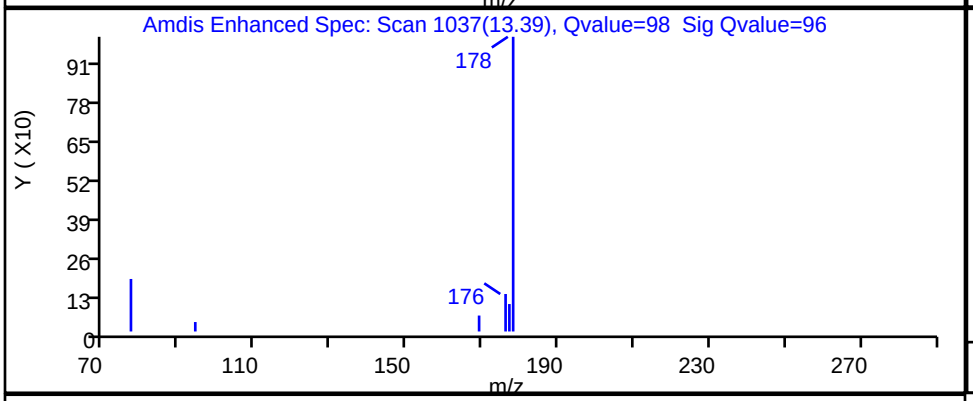
Eurofins Lancaster Laboratories Environment Testing, LLC

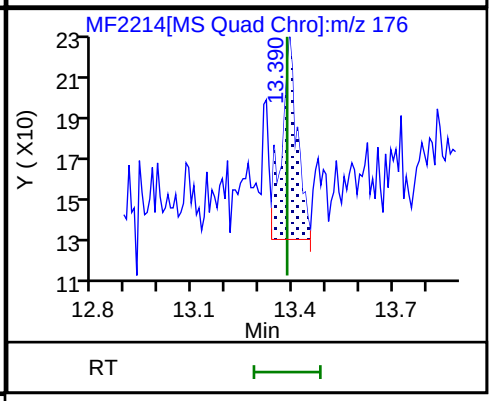
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Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

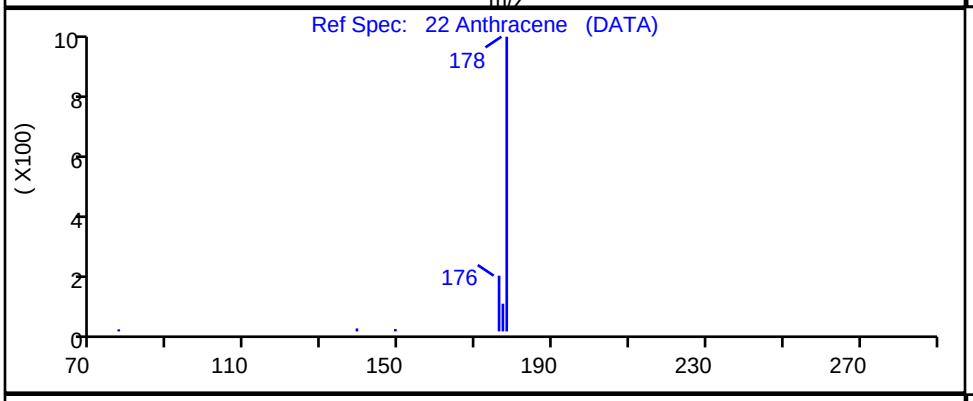
22 Anthracene, CAS: 120-12-7

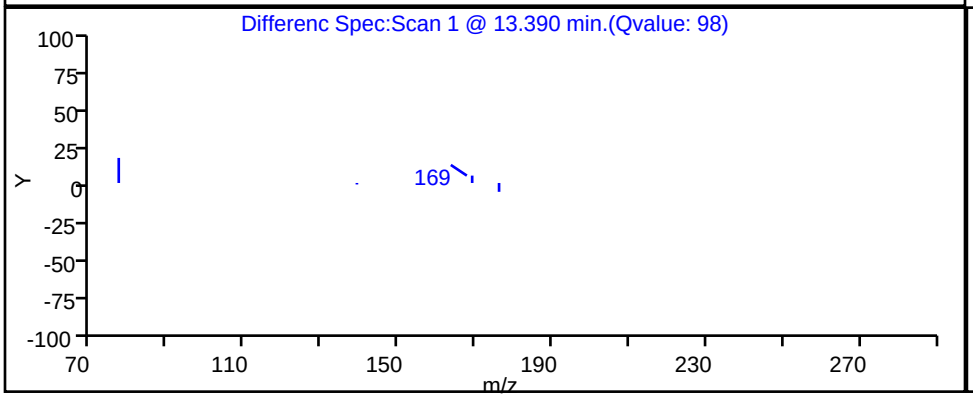


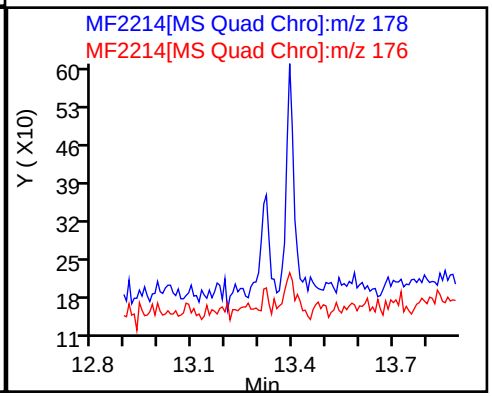










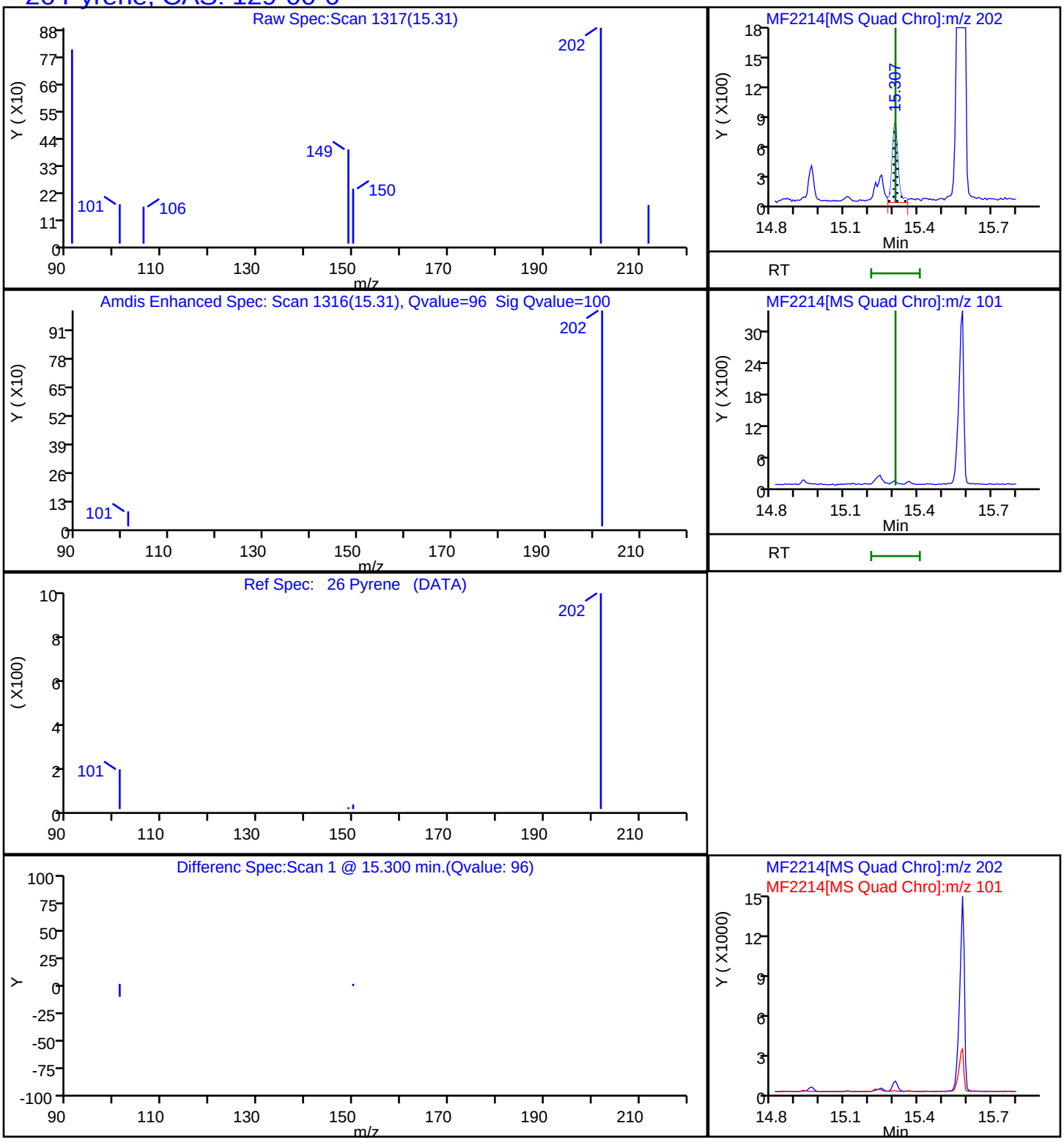


Report Date: 01-Jul-2021 09:47:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

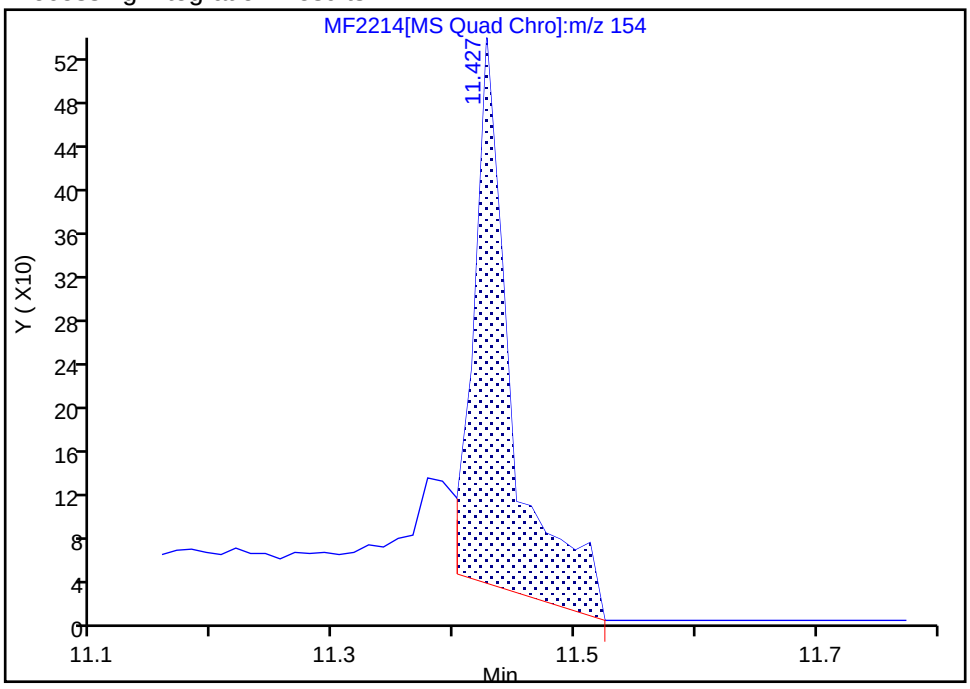
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Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

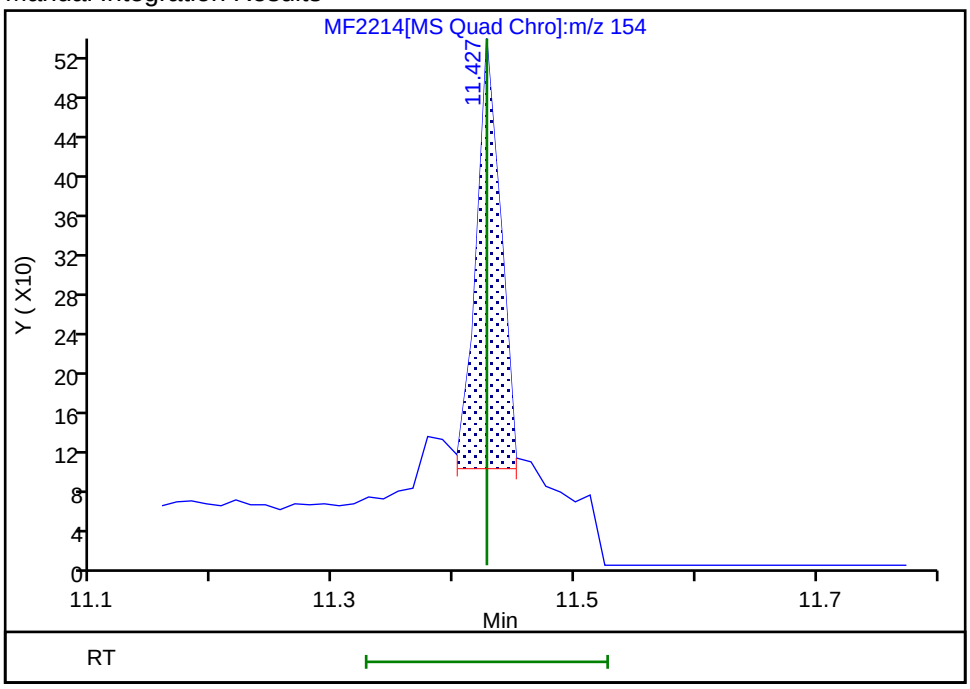
Processing Integration Results

RT: 11.43
Area: 1079
Amount: 0.010888
Amount Units: ug/ml



Manual Integration Results

RT: 11.43
Area: 613
Amount: 0.006185
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:36:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

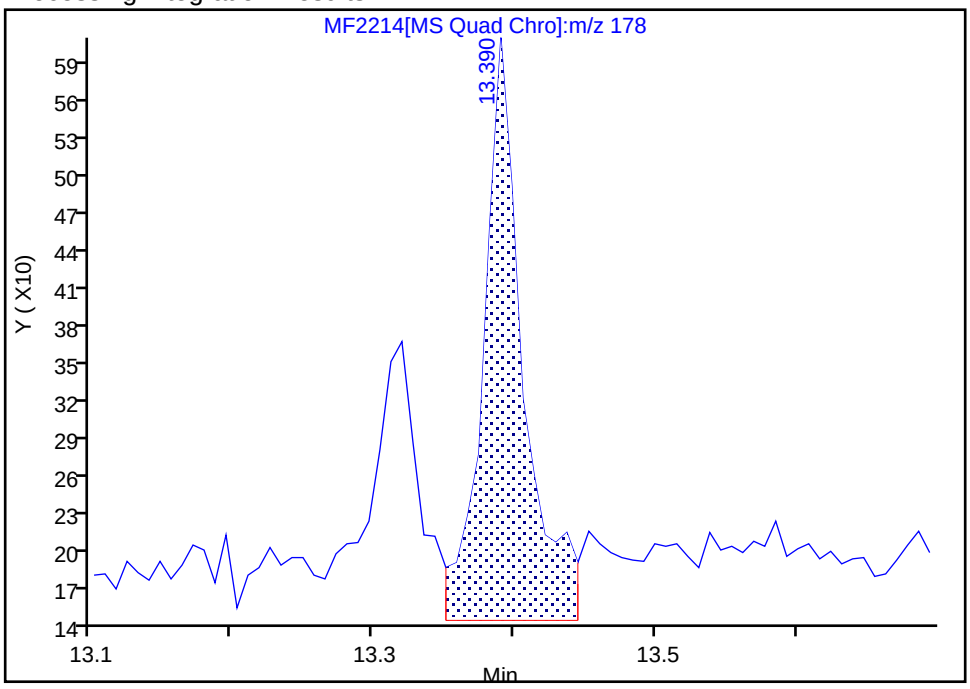
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

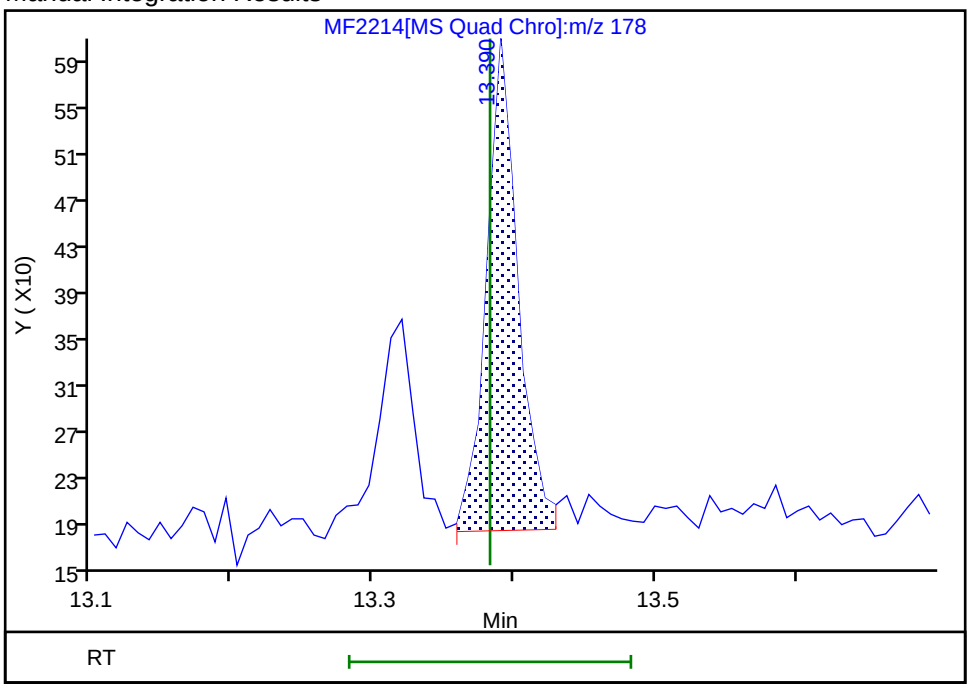
Processing Integration Results

RT: 13.39
Area: 902
Amount: 0.005056
Amount Units: ug/ml



Manual Integration Results

RT: 13.39
Area: 655
Amount: 0.003671
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:37:07

Audit Action: Manually Integrated Audit Reason: Baseline

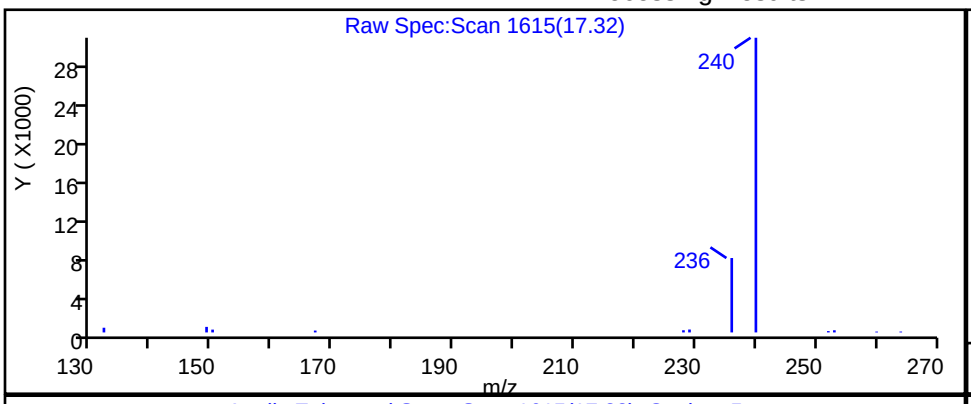
User Disabled Compound Report

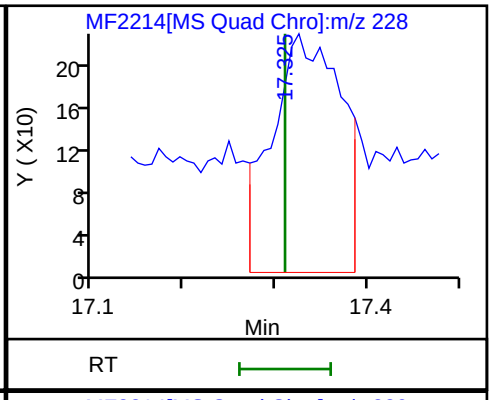
Eurofins Lancaster Laboratories Environment Testing, LLC

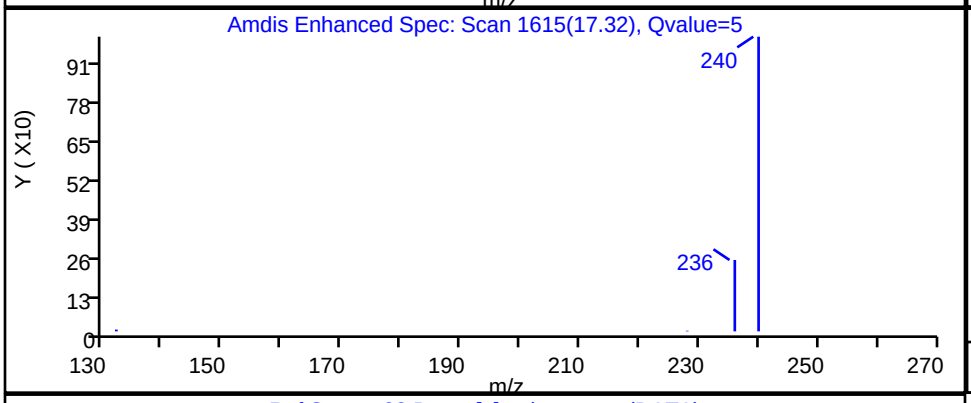
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

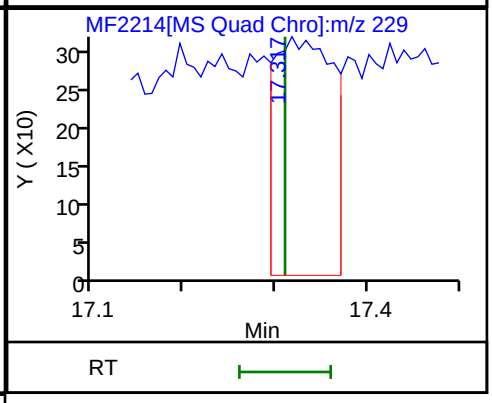
28 Benzo[a]anthracene, CAS: 56-55-3

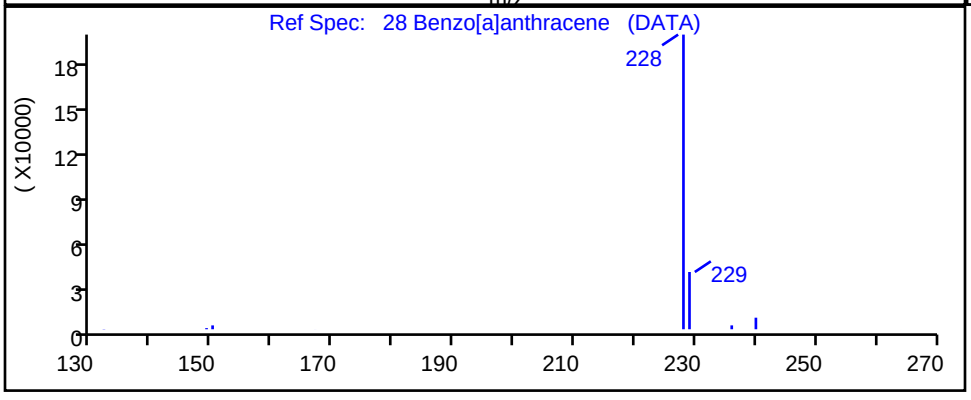
Processing Results











RT	Mass	Response	Amount
17.32	228.00	1178	0.004387
17.32	229.00	1375	

Reviewer: gamblerj, 01-Jul-2021 09:37:19

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

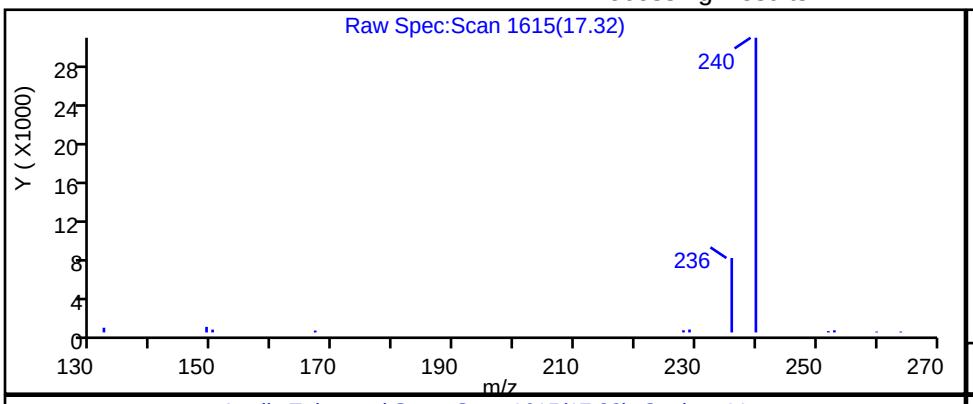
User Disabled Compound Report

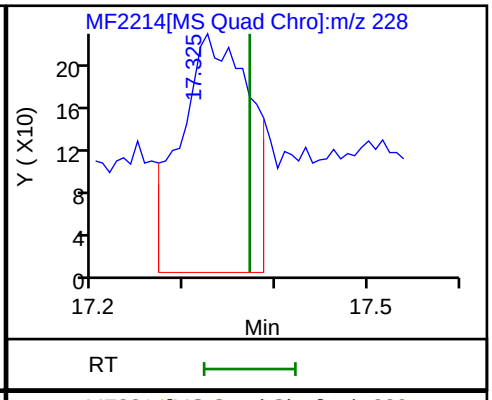
Eurofins Lancaster Laboratories Environment Testing, LLC

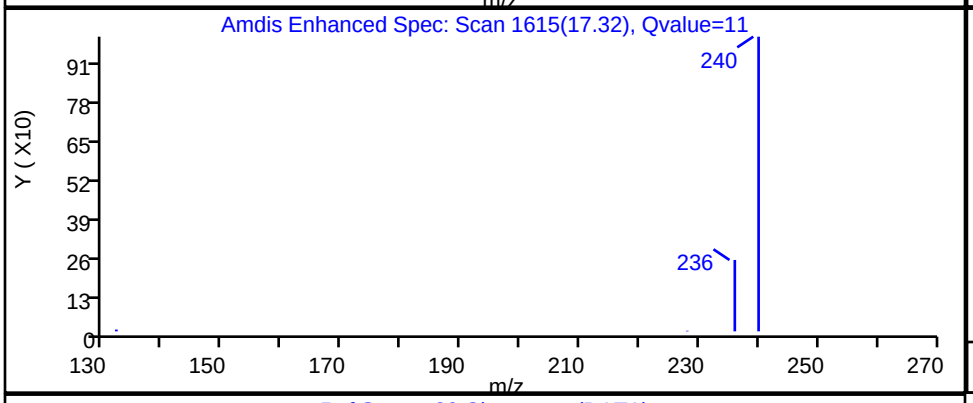
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

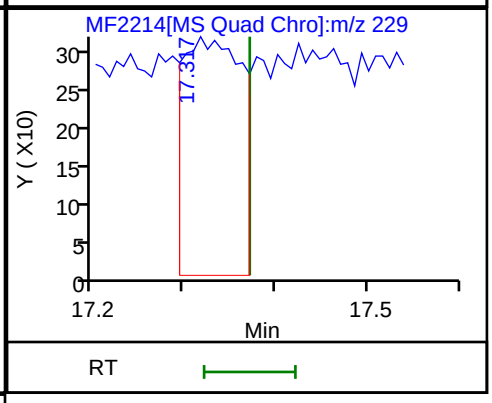
30 Chrysene, CAS: 218-01-9

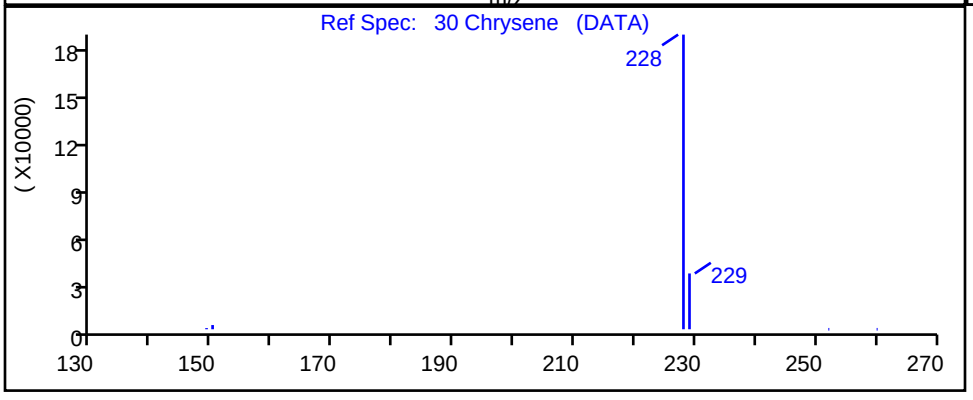
Processing Results











RT	Mass	Response	Amount
17.32	228.00	1178	0.004161
17.32	229.00	1375	

Reviewer: gamblerj, 01-Jul-2021 09:37:23

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

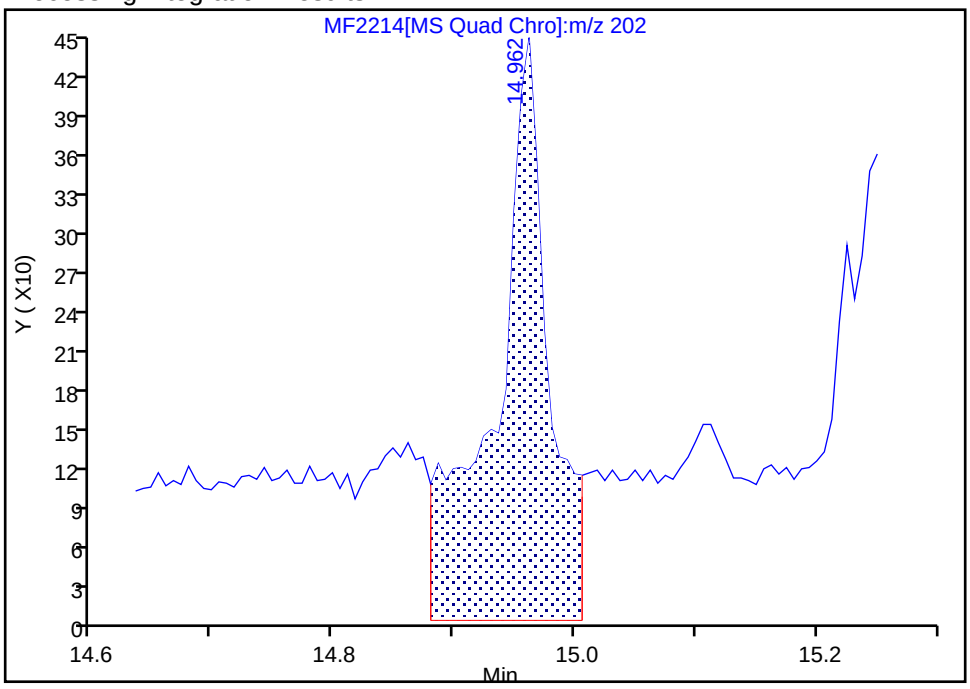
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2214.D				
Injection Date:	01-Jul-2021 04:02:50	Instrument ID:	HP21585		
Lims ID:	410-45105-A-8-A	Lab Sample ID:	410-45105-8		
Client ID:	MW-14S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

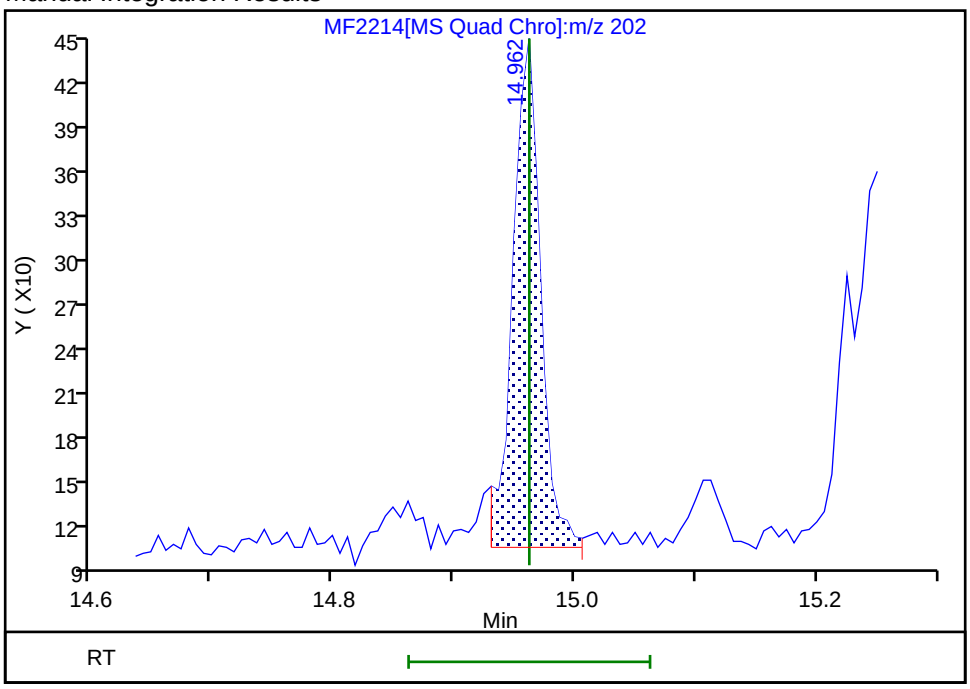
Processing Integration Results

RT: 14.96
Area: 1374
Amount: 0.005418
Amount Units: ug/ml



Manual Integration Results

RT: 14.96
Area: 538
Amount: 0.002121
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:37:14
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-14D-20210623 Lab Sample ID: 410-45105-9

Matrix: Groundwater Lab File ID: MF2215.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 14:15

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 242.3(mL) Date Analyzed: 07/01/2021 04:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	0.010	J	0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.014	J	0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	0.011	J	0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	0.012	J	0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	0.019	J	0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	37		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	71		36-111
93951-69-0	Fluoranthene-d10 (Surr)	85		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D
Lims ID: 410-45105-A-9-A
Client ID: MW-14D-20210623
Sample Type: Client
Inject. Date: 01-Jul-2021 04:33:20 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-9-A
Misc. Info.: 410-0033298-016
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 09:45:43 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 09:39:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	91	9648	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	33059	0.2500	
6 Naphthalene	128	8.626	8.626	0.000	1	519	0.003831	7M
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	15228	0.1772	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	97	22184	0.2500	
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	95	44616	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	44512	0.2132	
25 Fluoranthene	202	14.962	14.956	0.000	97	722	0.002899	M
26 Pyrene	202	15.307	15.313	0.000	97	1090	0.004523	
28 Benzo[a]anthracene	228	17.317	17.310	0.007	99	626	0.002480	7M
* 29 Chrysene-d12	240	17.325	17.325	0.000	56	48666	0.2500	
30 Chrysene	228	17.371	17.371	0.000	98	716	0.002691	M
33 Benzo[b]fluoranthene	252	19.188	19.181	0.022	99	742	0.003414	M
34 Benzo[k]fluoranthene	252	19.227	19.227	0.015	57	285	0.001209	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.672	19.664	0.016	97	16557	0.0928	
37 Benzo[a]pyrene	252	19.710	19.702	0.015	99	503	0.002396	7M
* 38 Perylene-d12	264	19.794	19.787	0.007	97	46680	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.484	21.477	0.042	98	208	0.001055	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

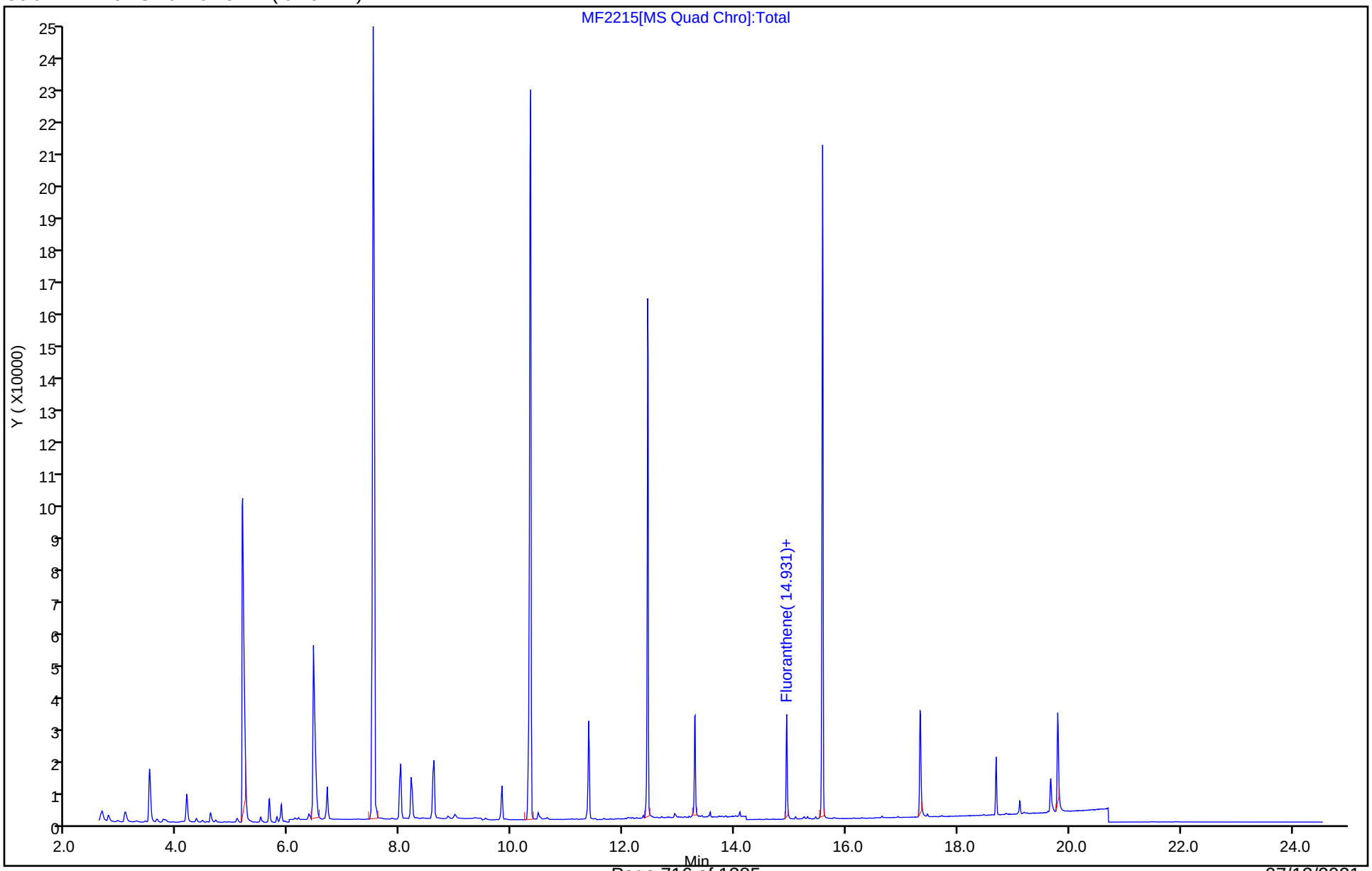
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 01-Jul-2021 09:47:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9	Worklist Smp#:	16
Client ID:	MW-14D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

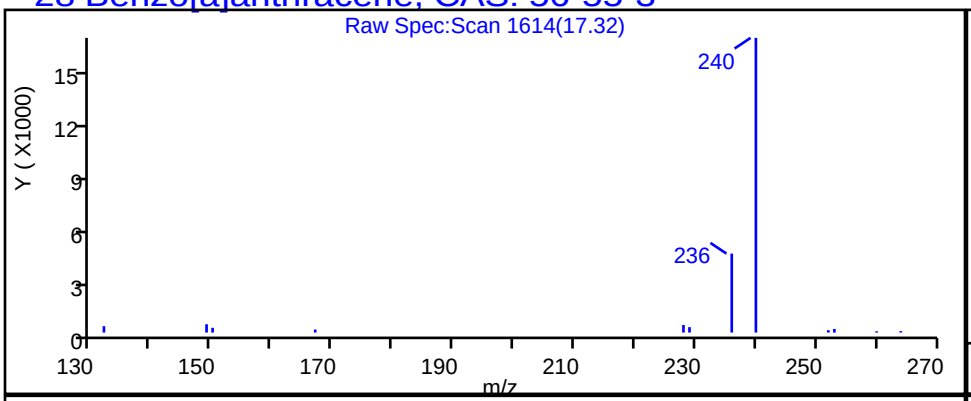
Column: DB-5MS 20m 0.25mm (0.25 mm)

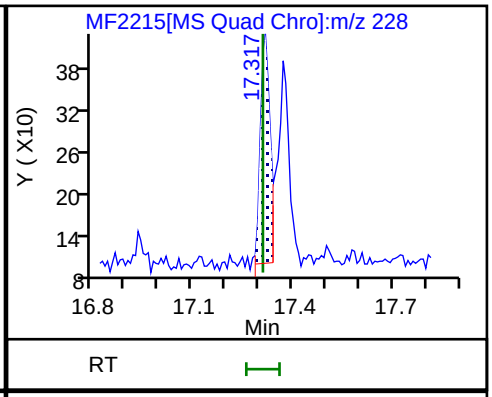


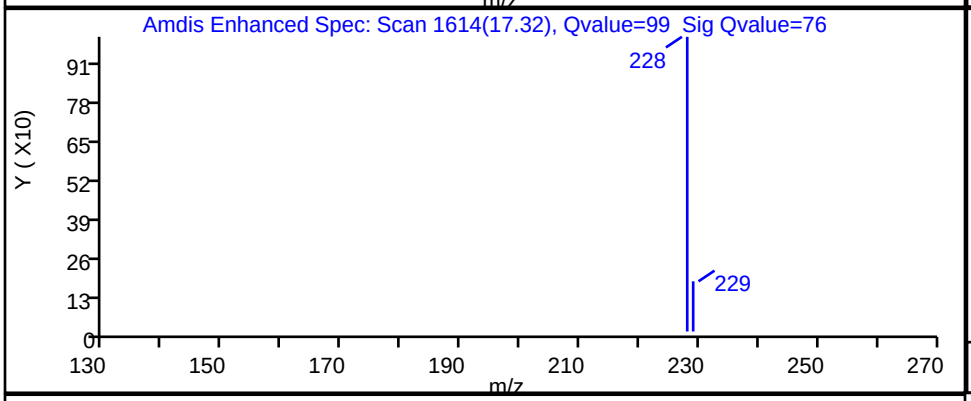
Eurofins Lancaster Laboratories Environment Testing, LLC

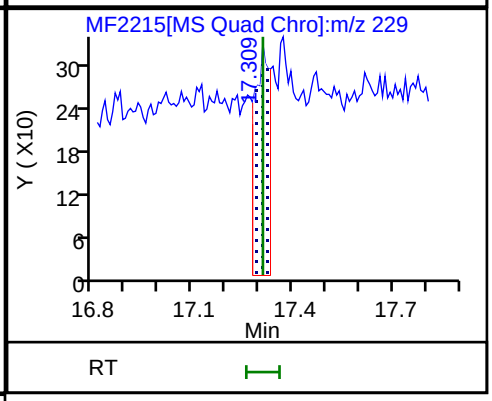
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Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

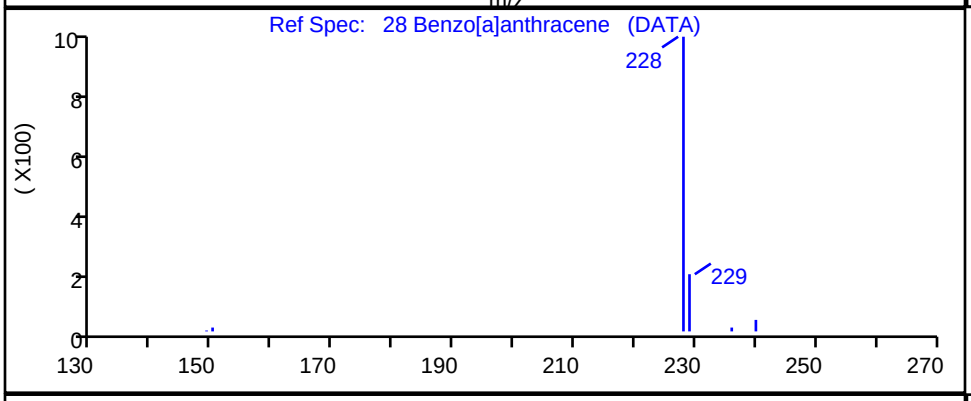
28 Benzo[a]anthracene, CAS: 56-55-3

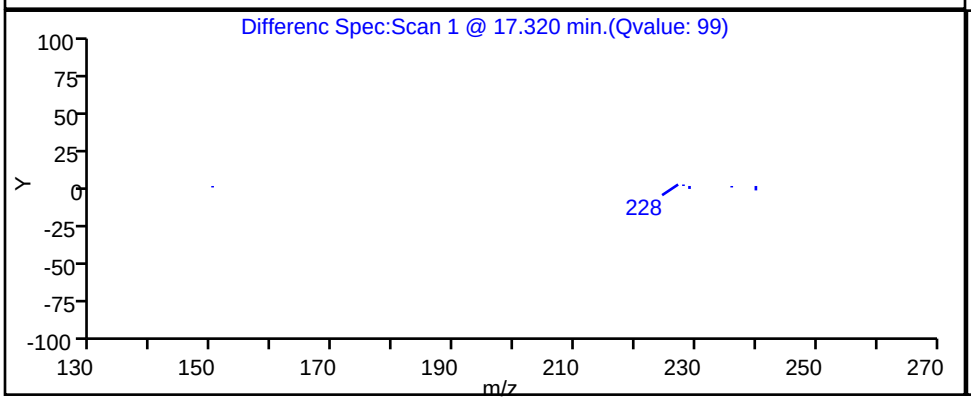


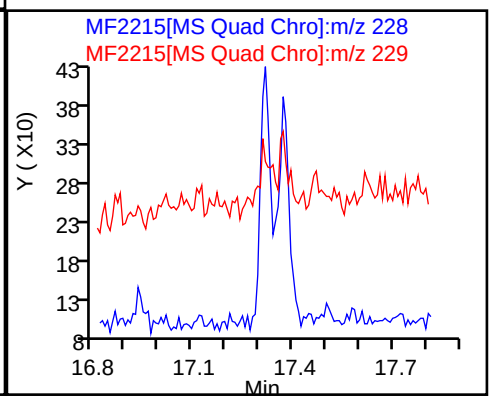








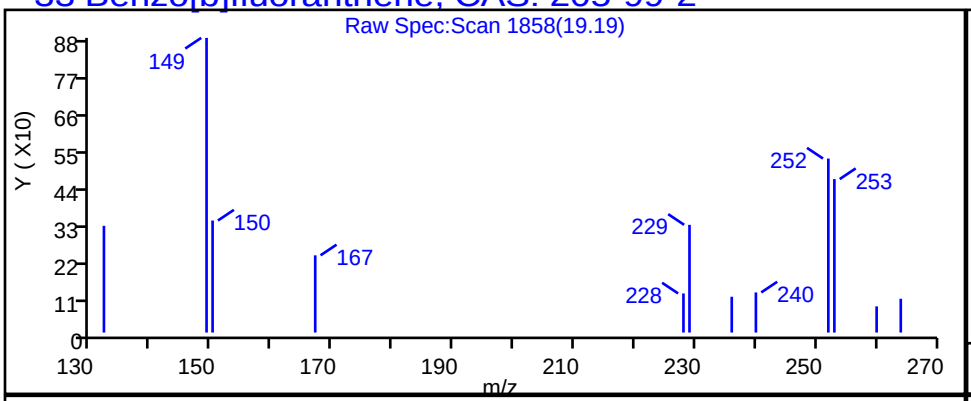


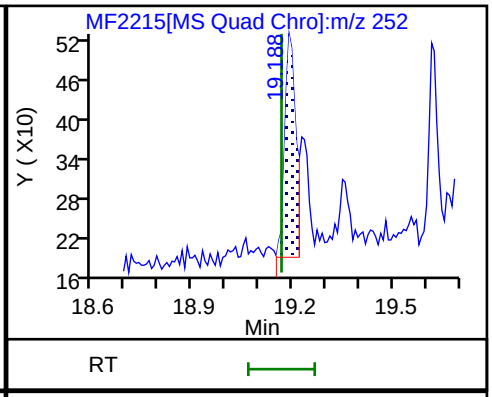


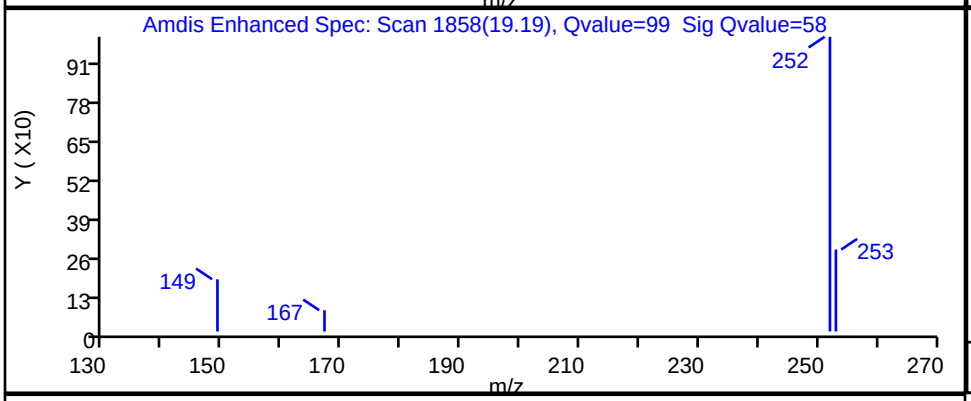
Eurofins Lancaster Laboratories Environment Testing, LLC

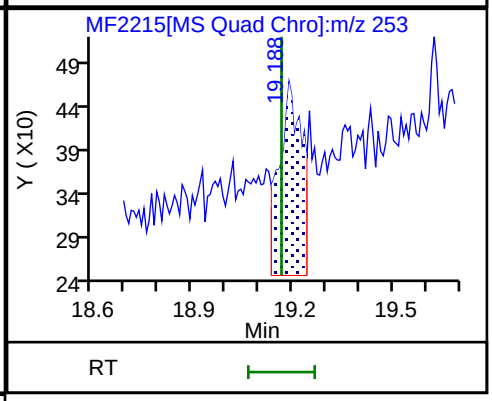
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Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

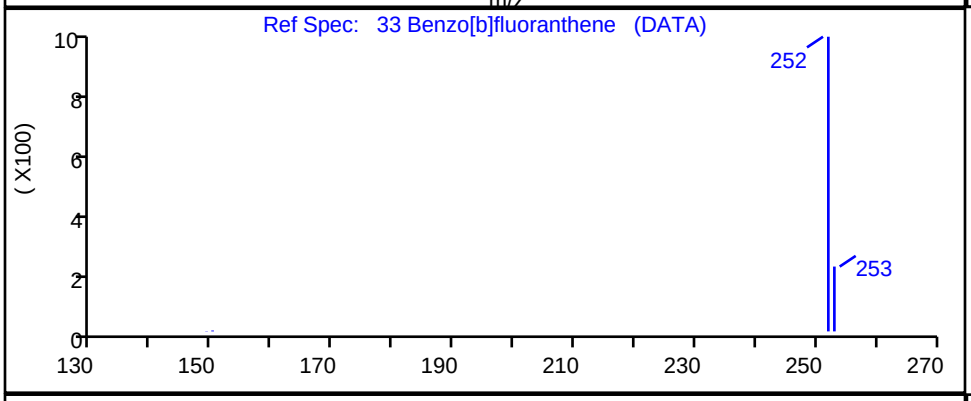
33 Benzo[b]fluoranthene, CAS: 205-99-2

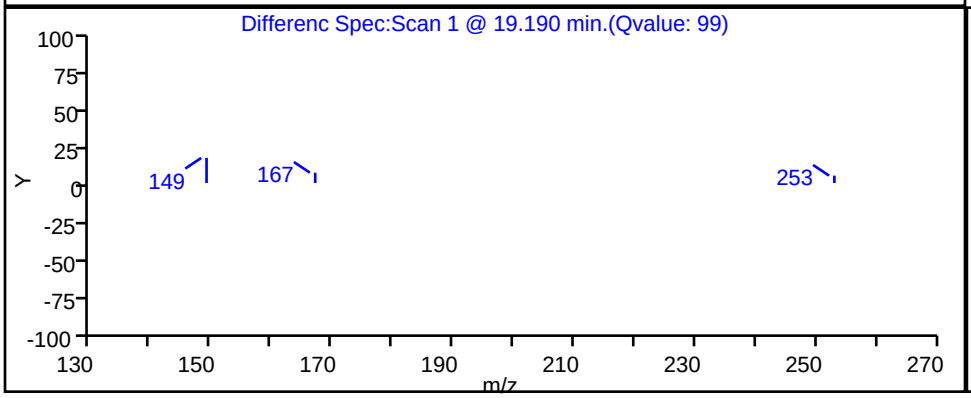


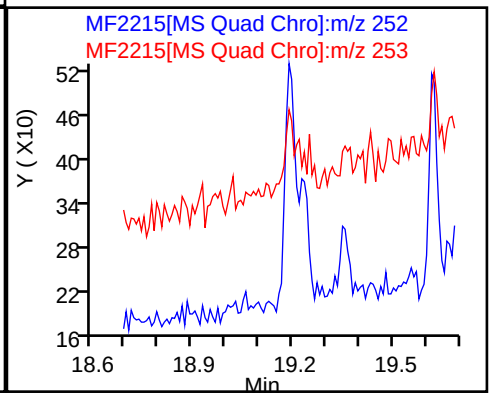








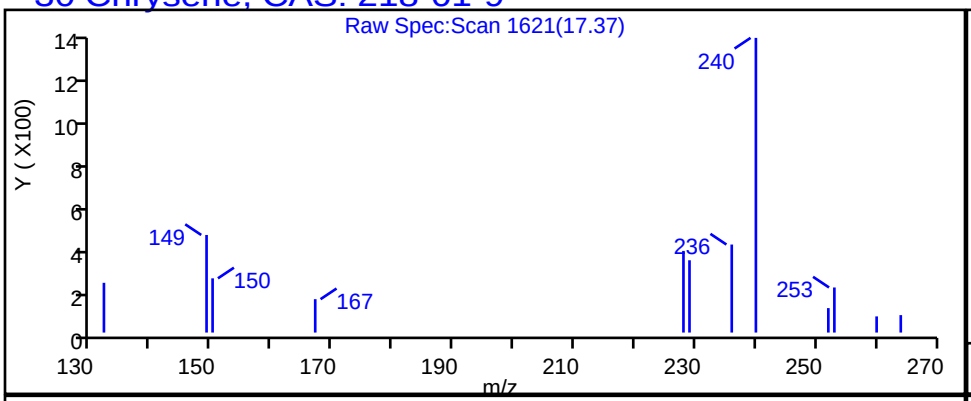


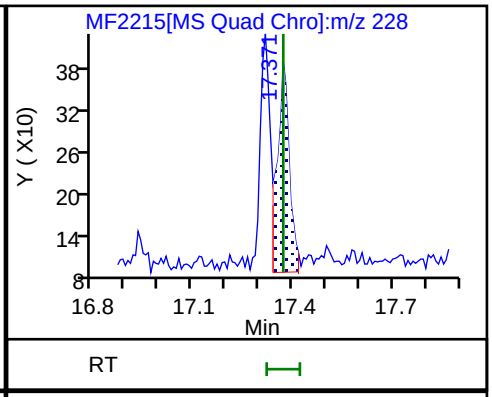


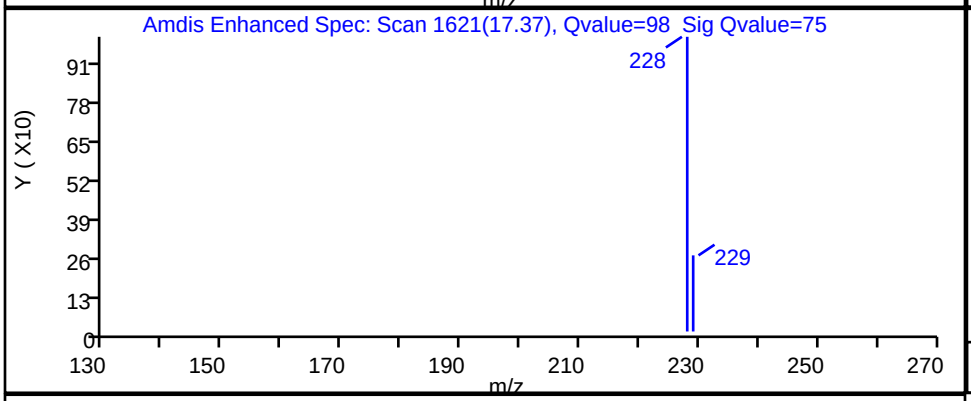
Eurofins Lancaster Laboratories Environment Testing, LLC

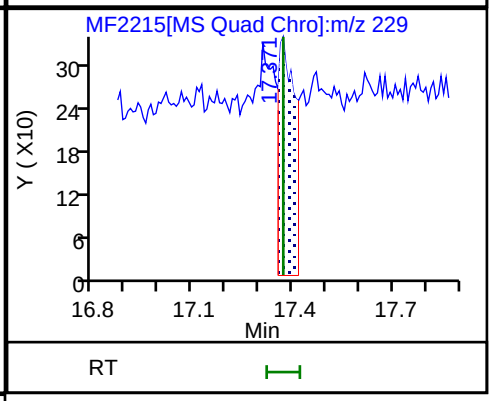
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Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

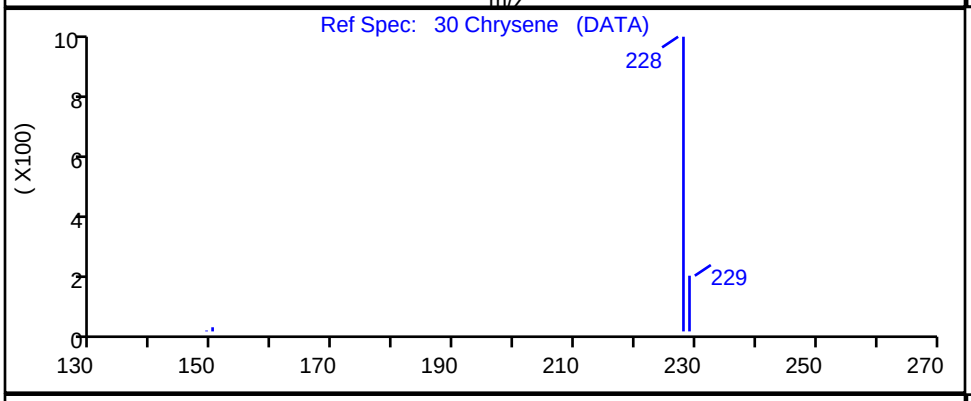
30 Chrysene, CAS: 218-01-9

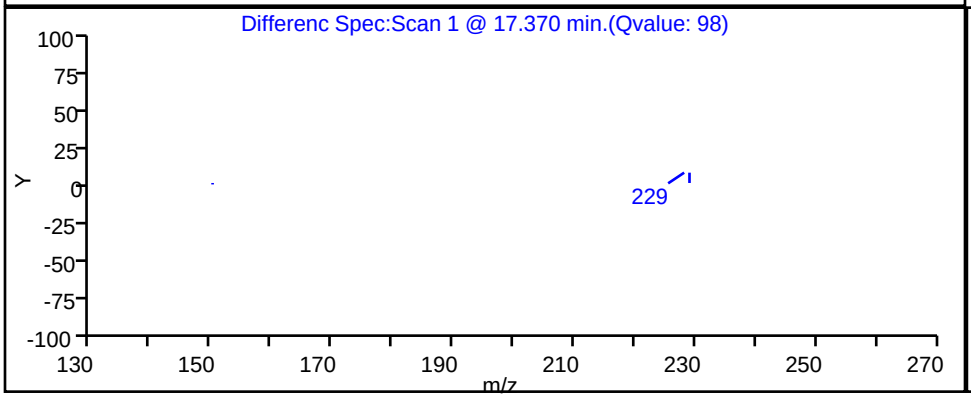


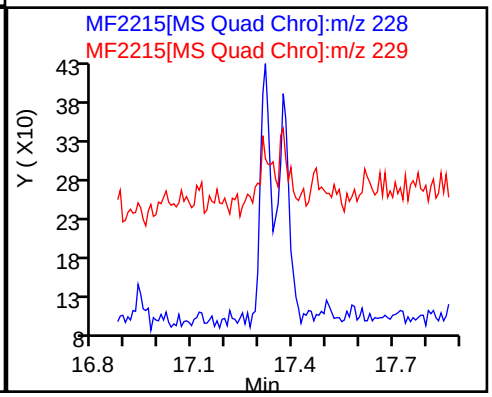








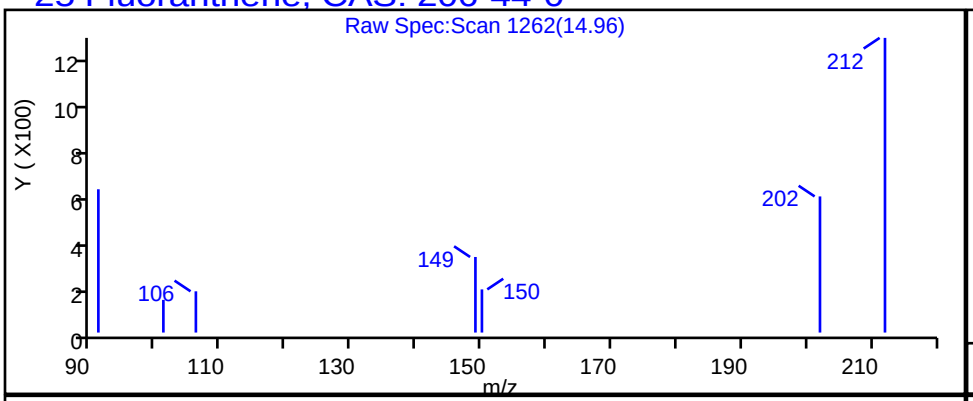


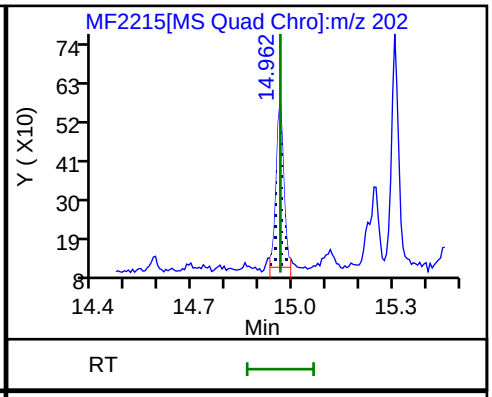


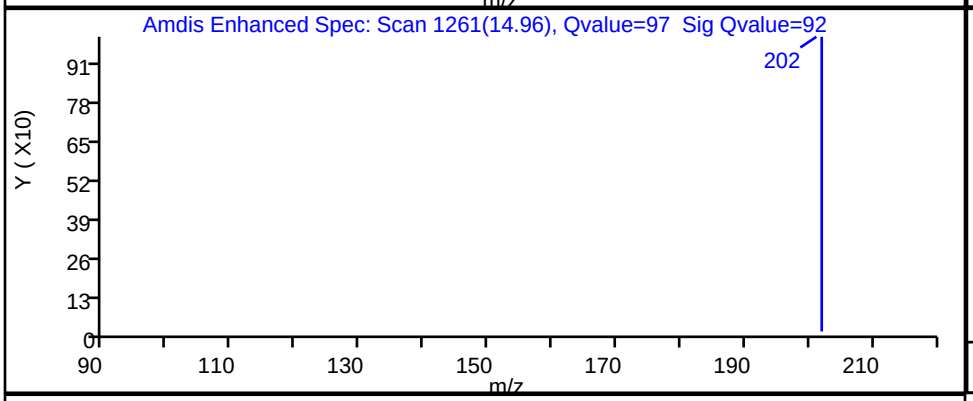
Eurofins Lancaster Laboratories Environment Testing, LLC

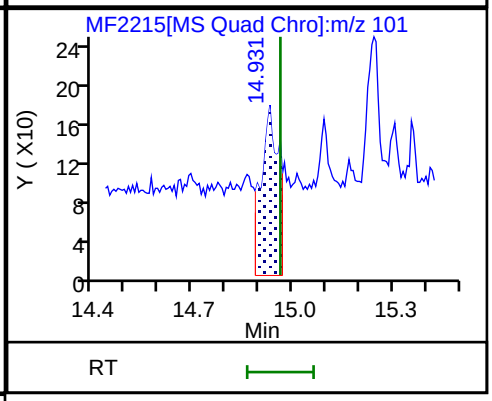
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Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9
Client ID:	MW-14D-20210623		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

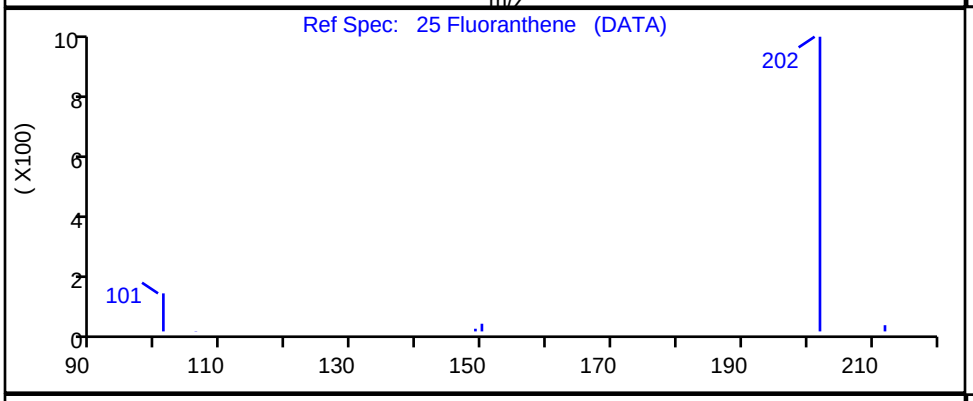
25 Fluoranthene, CAS: 206-44-0

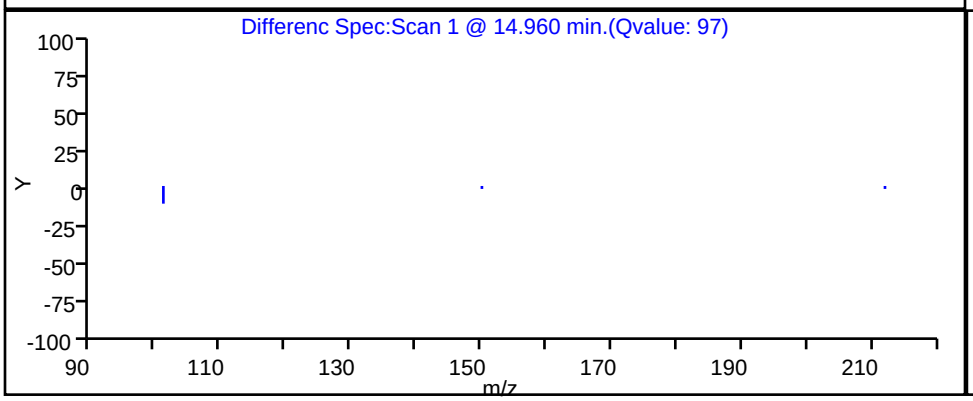


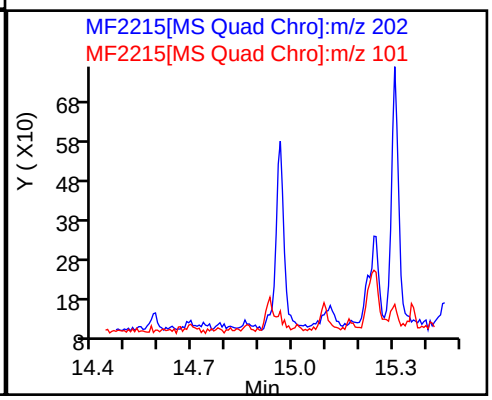










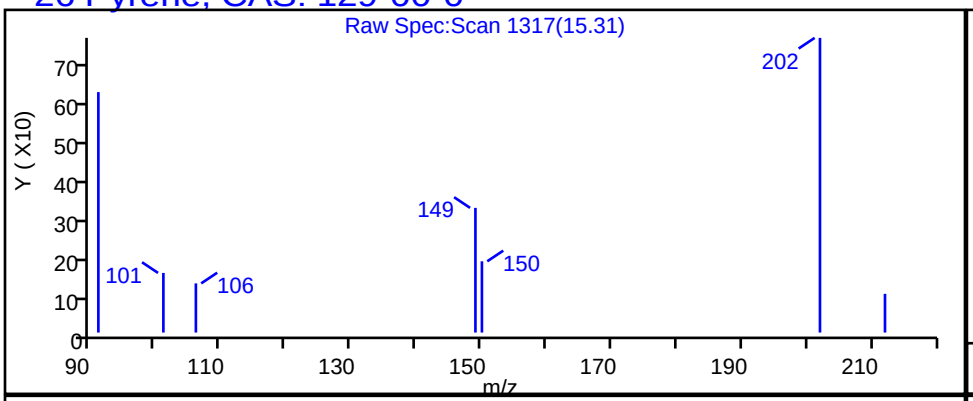


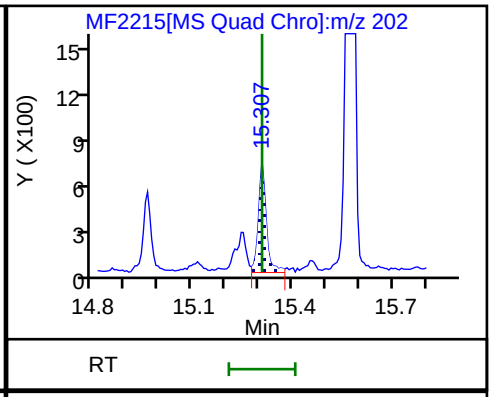
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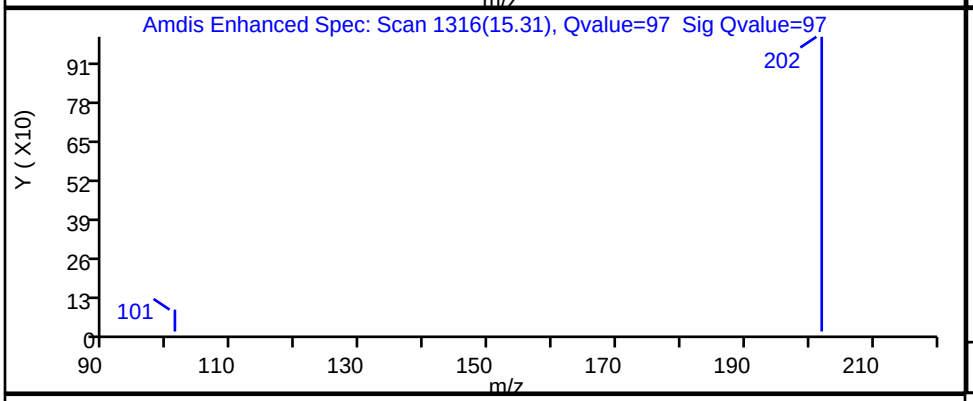
Eurofins Lancaster Laboratories Environment Testing, LLC

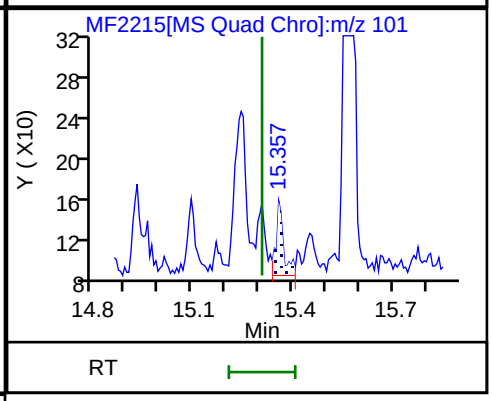
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Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

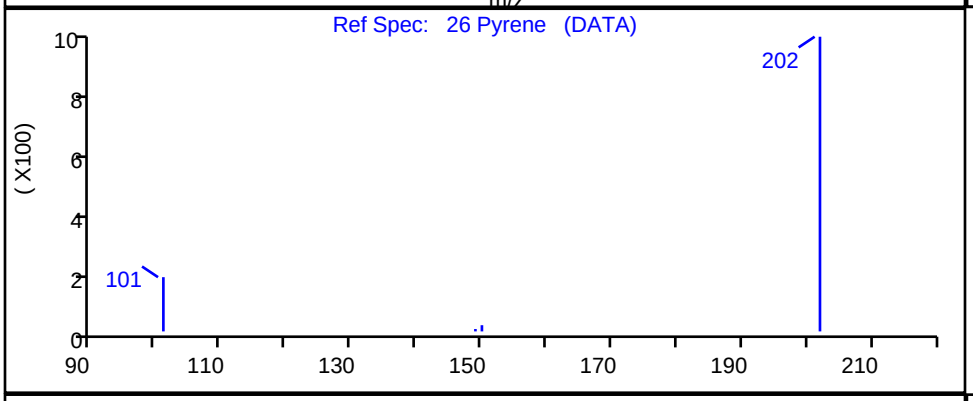
26 Pyrene, CAS: 129-00-0

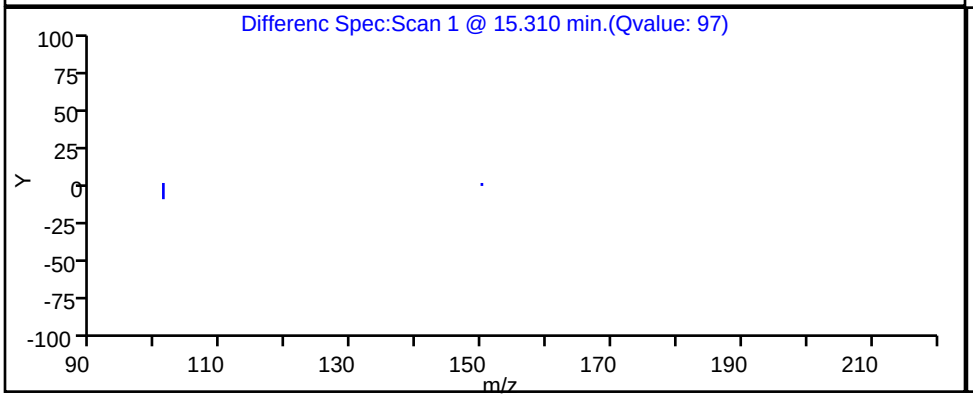


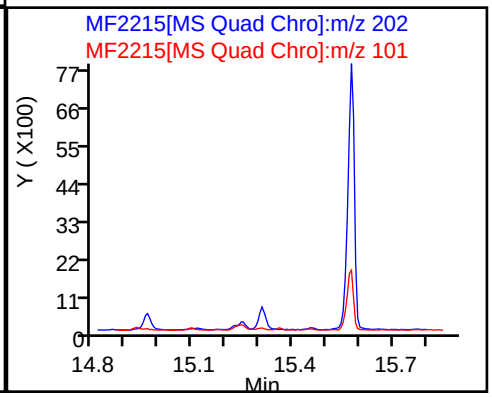












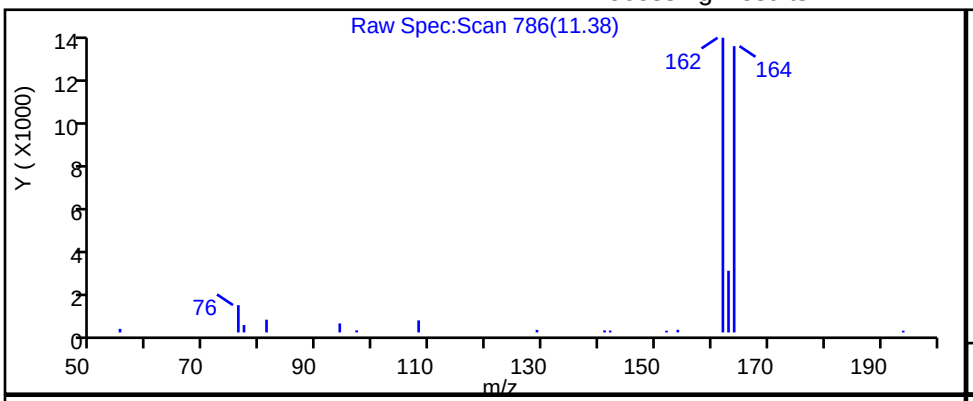
User Disabled Compound Report

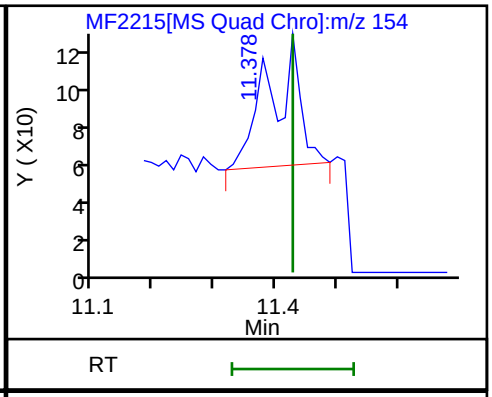
Eurofins Lancaster Laboratories Environment Testing, LLC

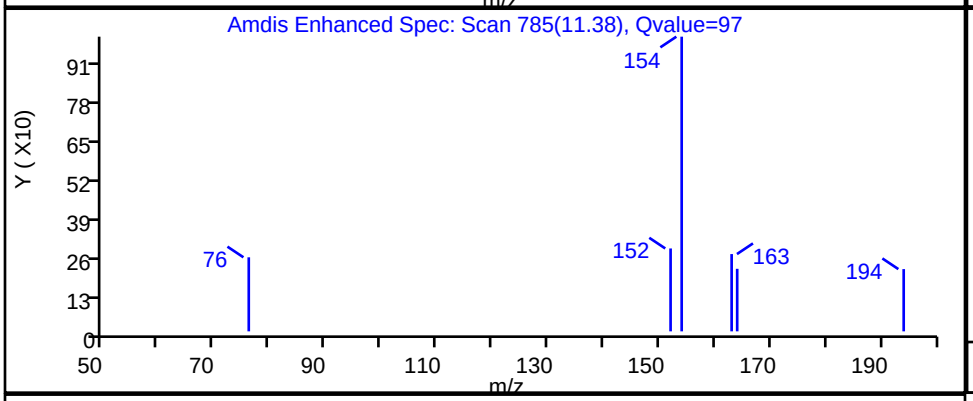
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

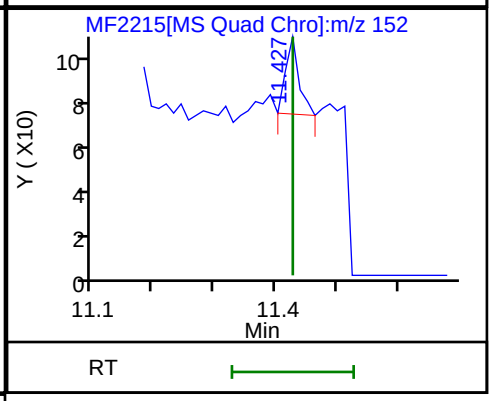
14 Acenaphthene, CAS: 83-32-9

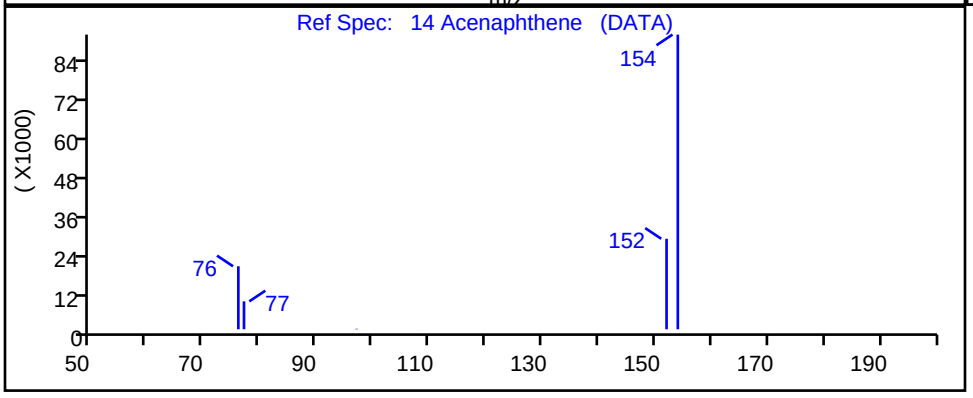
Processing Results











RT	Mass	Response	Amount
11.38	154.00	246	0.002535
11.43	152.00	49	

Reviewer: gamblerj, 01-Jul-2021 09:38:25

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

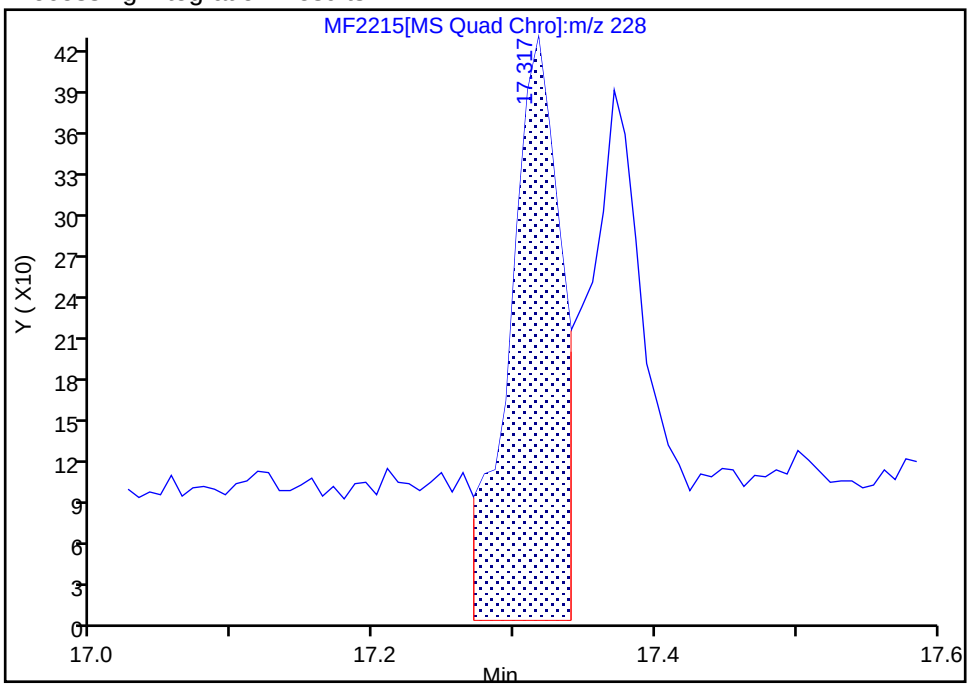
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Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

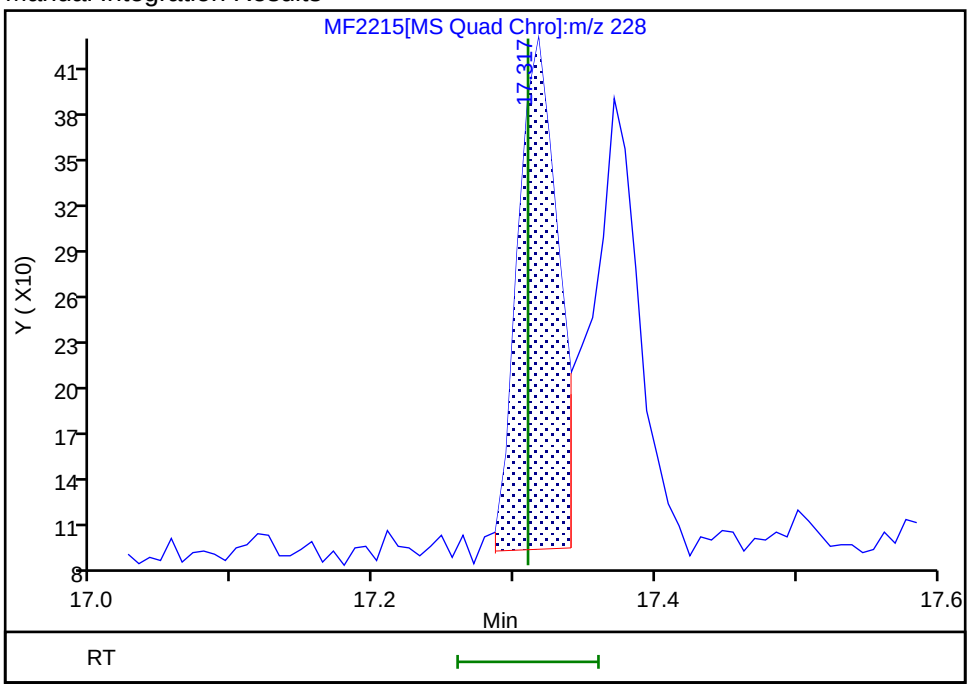
Processing Integration Results

RT: 17.32
Area: 1037
Amount: 0.004109
Amount Units: ug/ml



Manual Integration Results

RT: 17.32
Area: 626
Amount: 0.002480
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:38:43

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

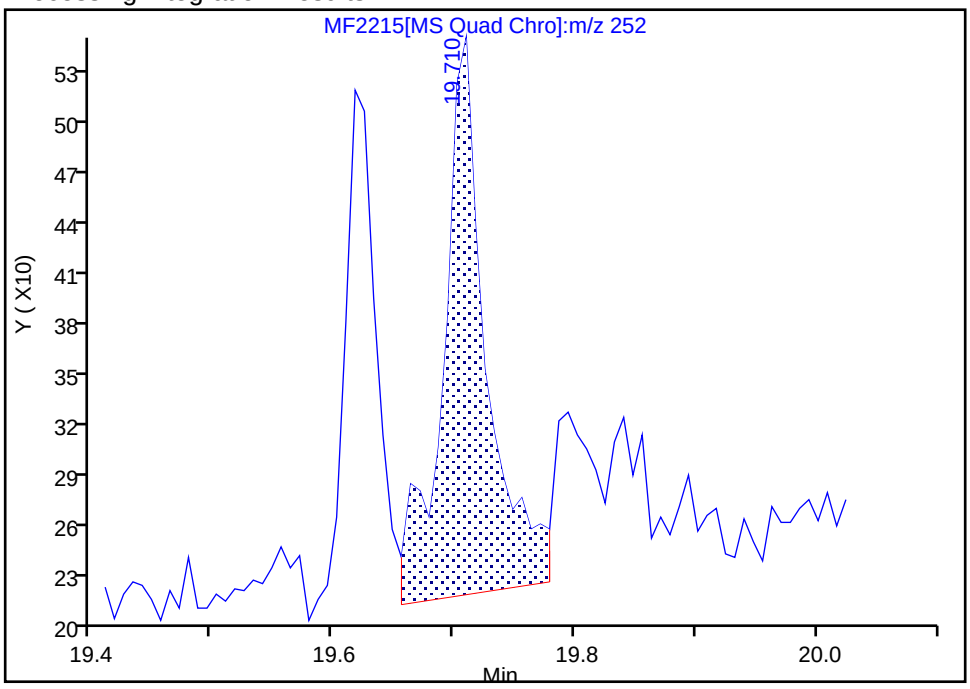
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Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

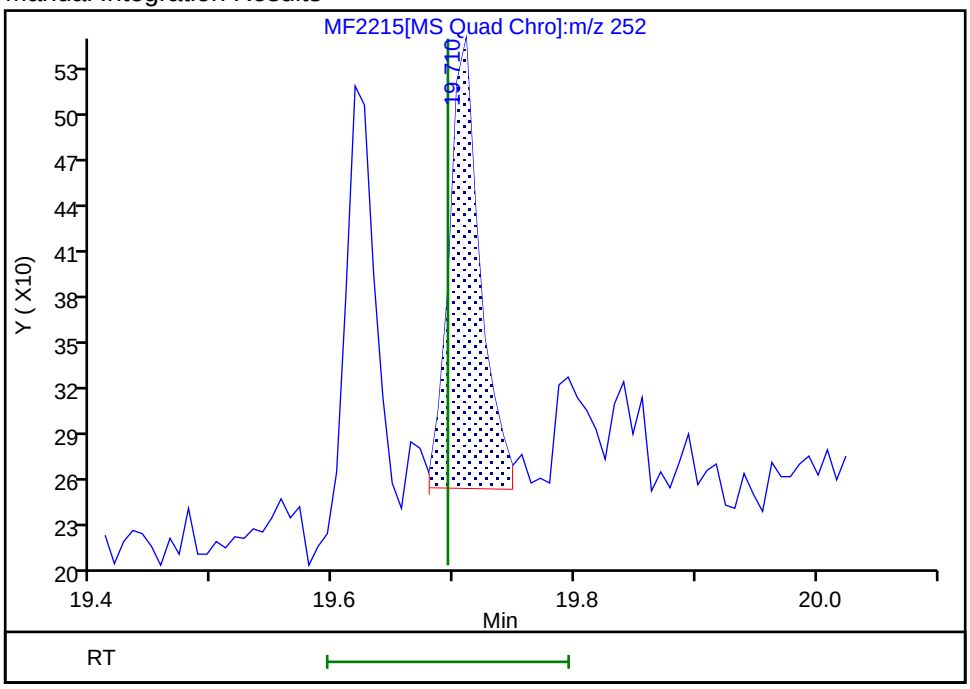
Processing Integration Results

RT: 19.71
Area: 790
Amount: 0.003763
Amount Units: ug/ml



Manual Integration Results

RT: 19.71
Area: 503
Amount: 0.002396
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:39:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

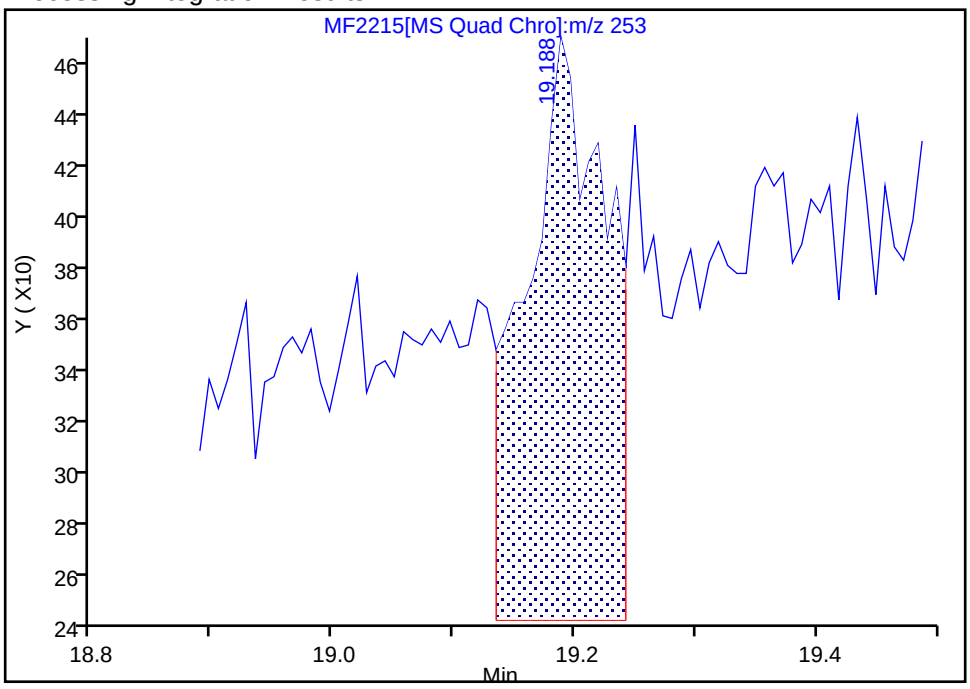
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 2

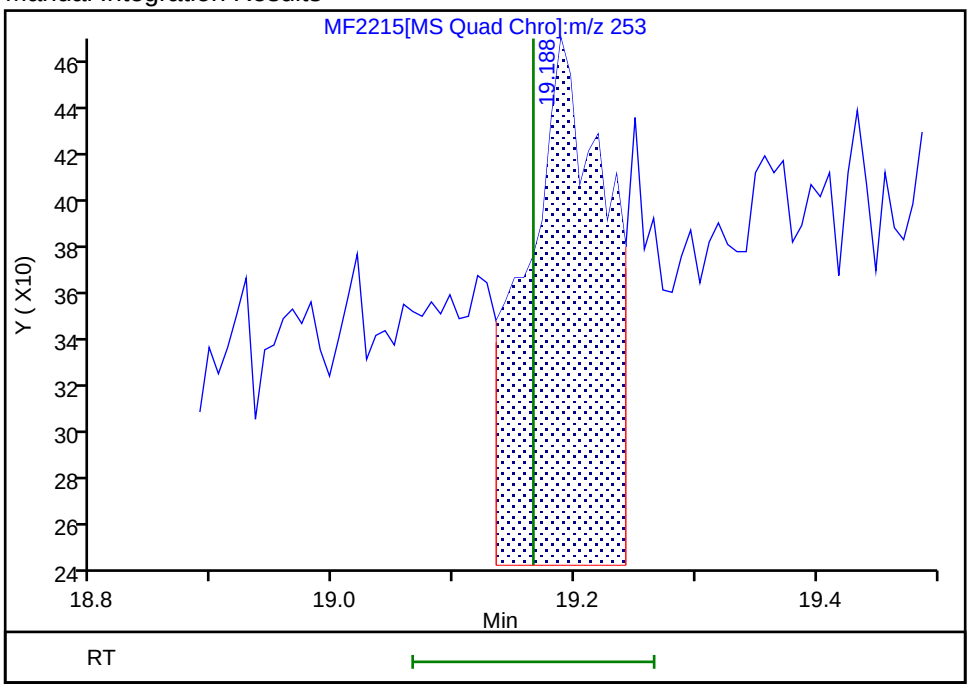
Processing Integration Results

RT: 19.19
Area: 998
Amount: 0.003888
Amount Units: ug/ml



Manual Integration Results

RT: 19.19
Area: 998
Amount: 0.003414
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:38:53

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

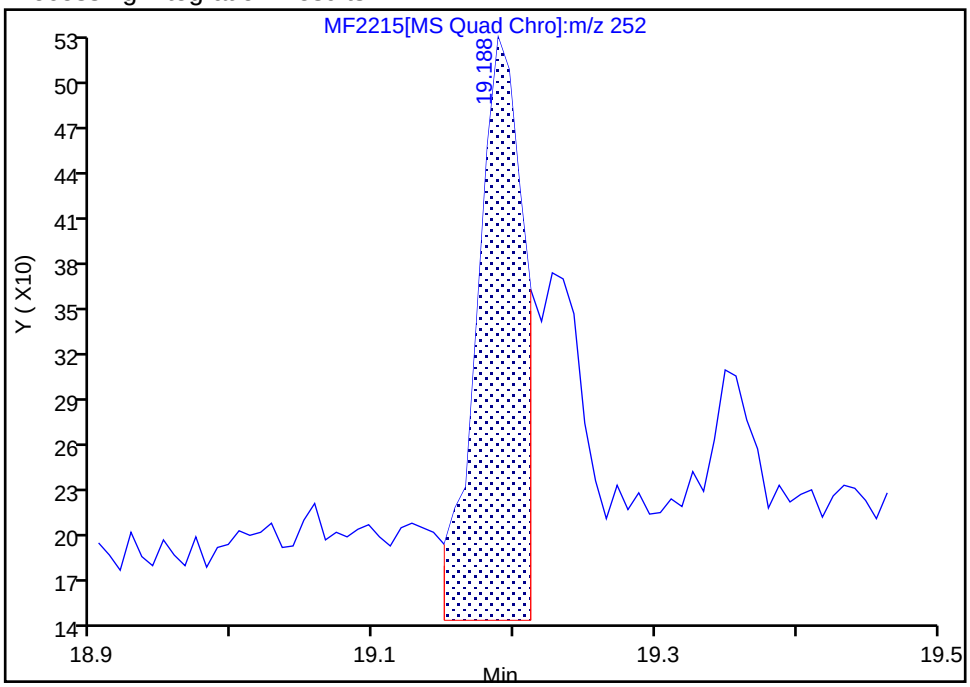
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

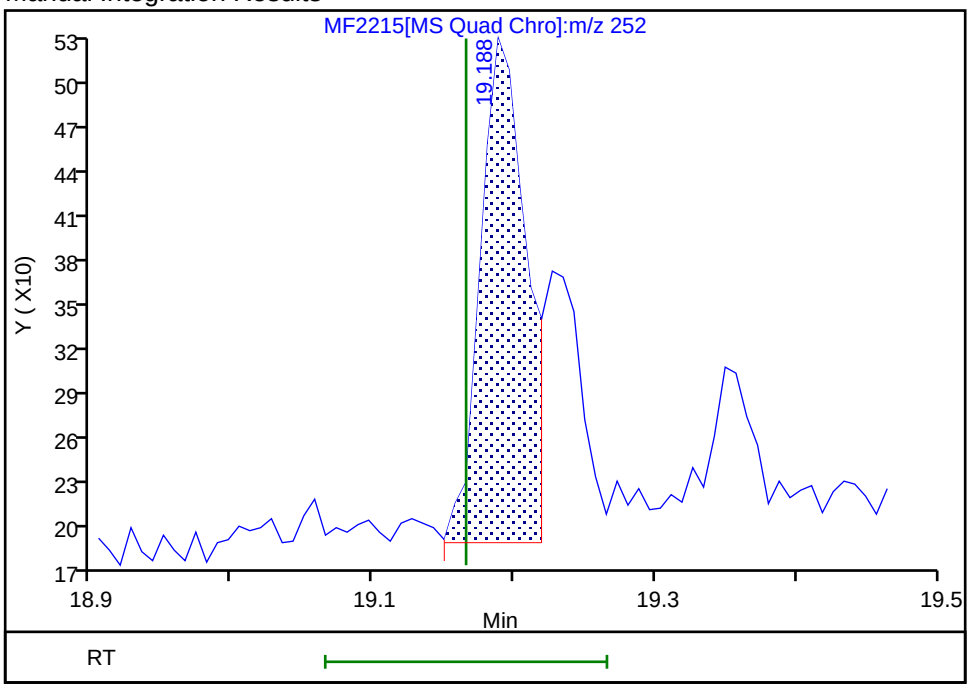
Processing Integration Results

RT: 19.19
Area: 845
Amount: 0.003888
Amount Units: ug/ml



Manual Integration Results

RT: 19.19
Area: 742
Amount: 0.003414
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:39:05
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

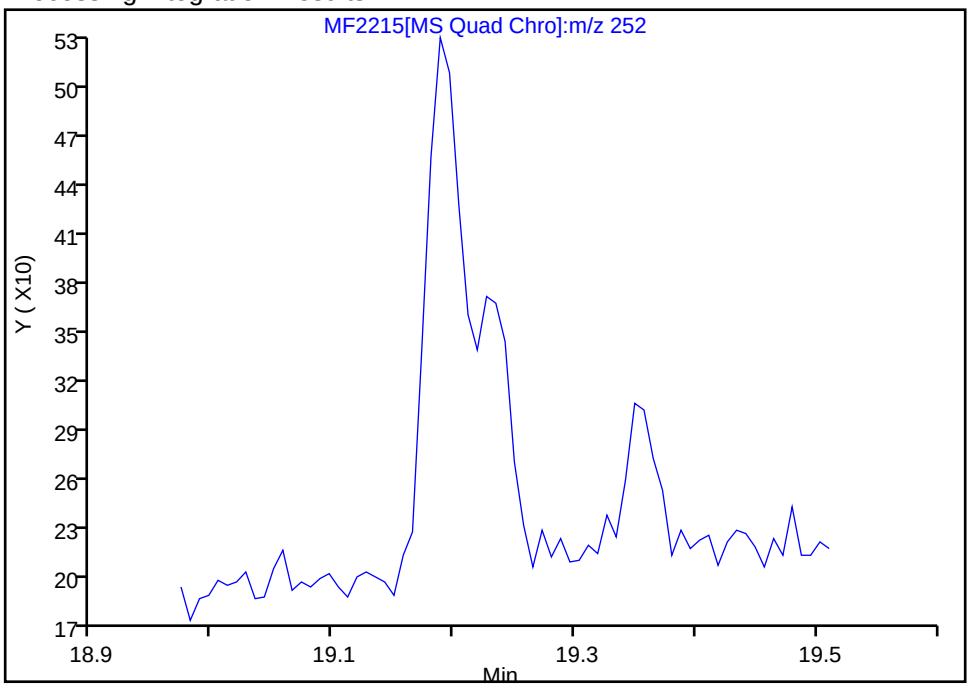
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

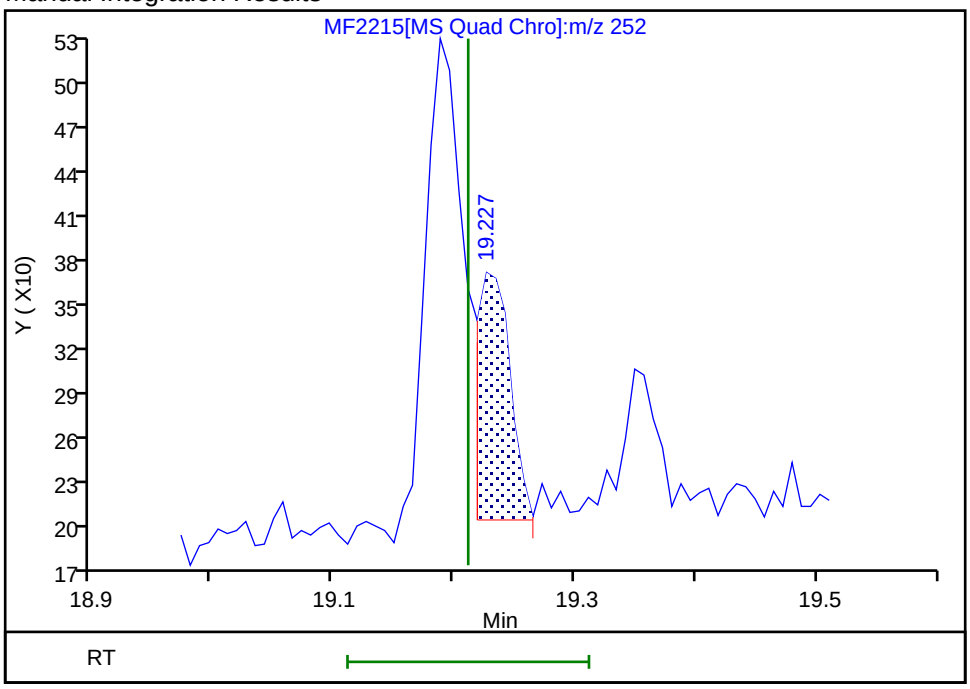
Not Detected
Expected RT: 19.21

Processing Integration Results



Manual Integration Results

RT: 19.23
Area: 285
Amount: 0.001209
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:39:17
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

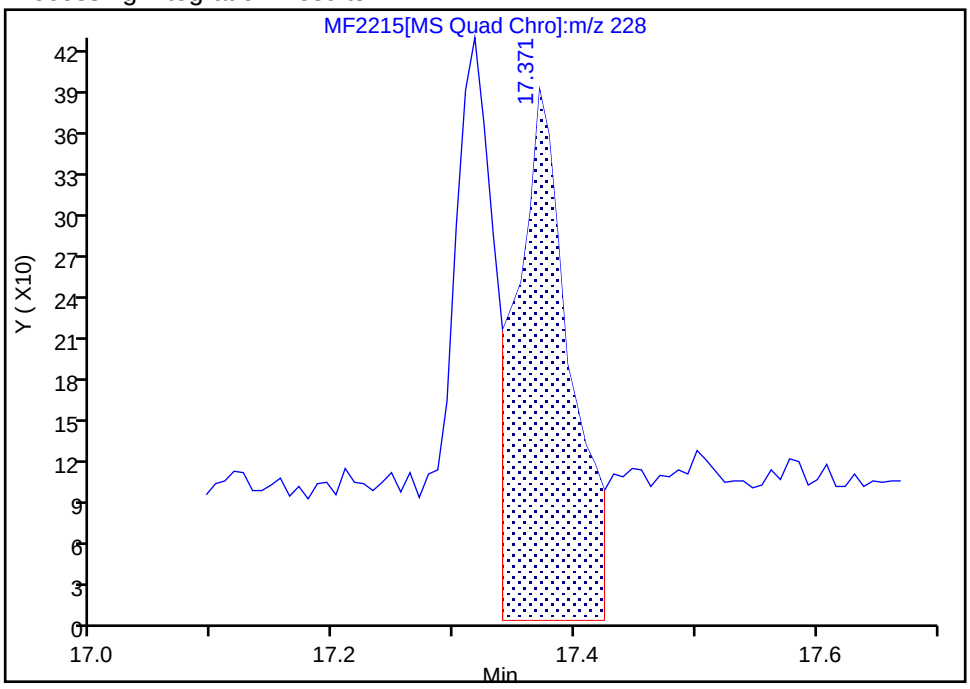
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

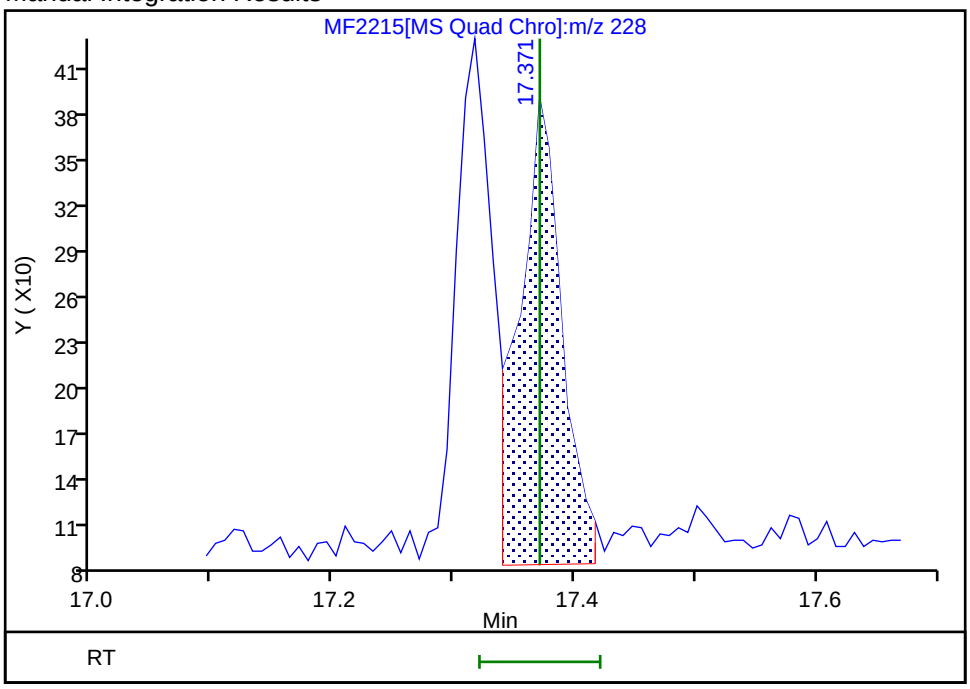
Processing Integration Results

RT: 17.37
Area: 1157
Amount: 0.004348
Amount Units: ug/ml



Manual Integration Results

RT: 17.37
Area: 716
Amount: 0.002691
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:38:48

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

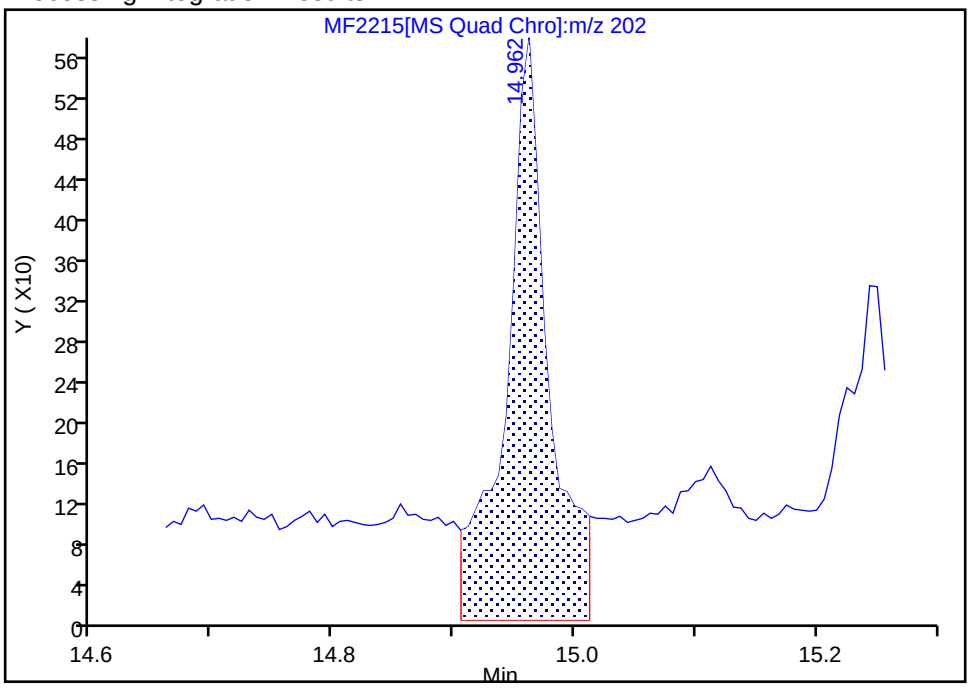
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

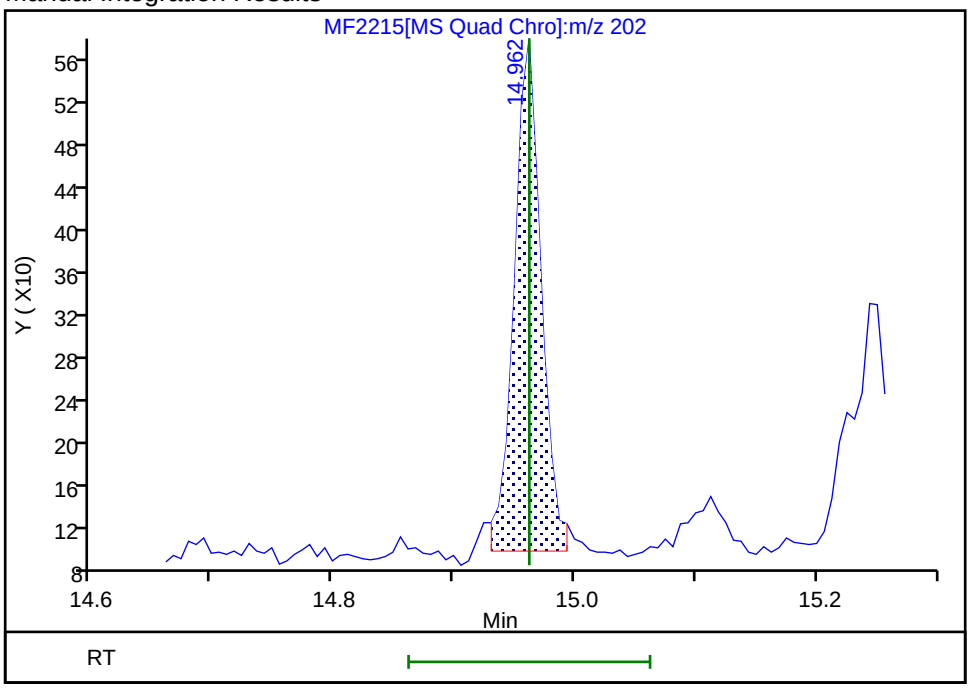
Processing Integration Results

RT: 14.96
Area: 1392
Amount: 0.005589
Amount Units: ug/ml



Manual Integration Results

RT: 14.96
Area: 722
Amount: 0.002899
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:38:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

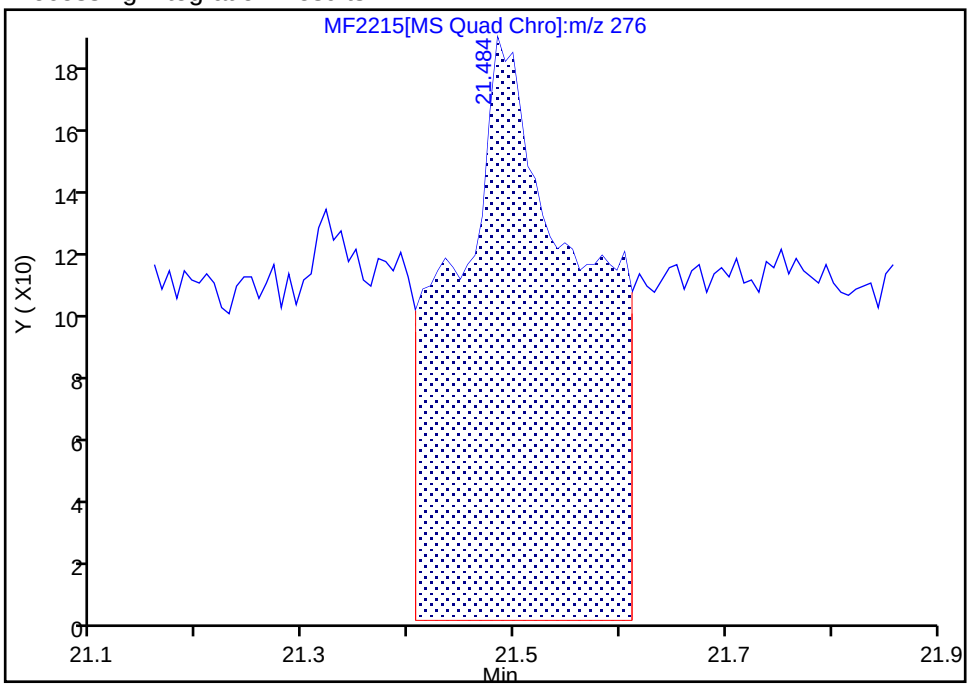
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

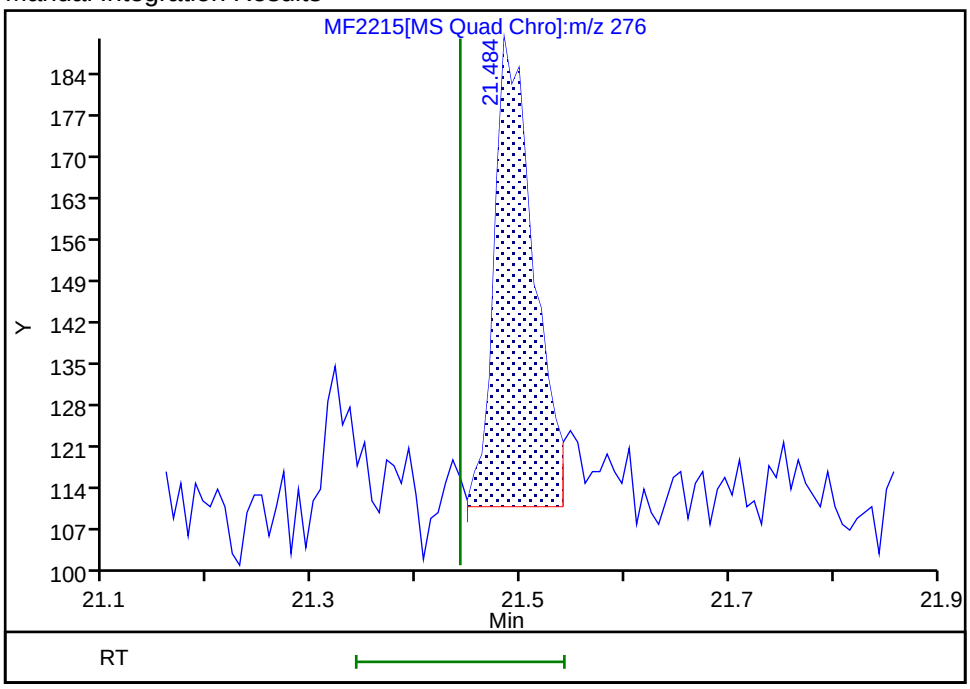
Processing Integration Results

RT: 21.48
Area: 1595
Amount: 0.008089
Amount Units: ug/ml



Manual Integration Results

RT: 21.48
Area: 208
Amount: 0.001055
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:39:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

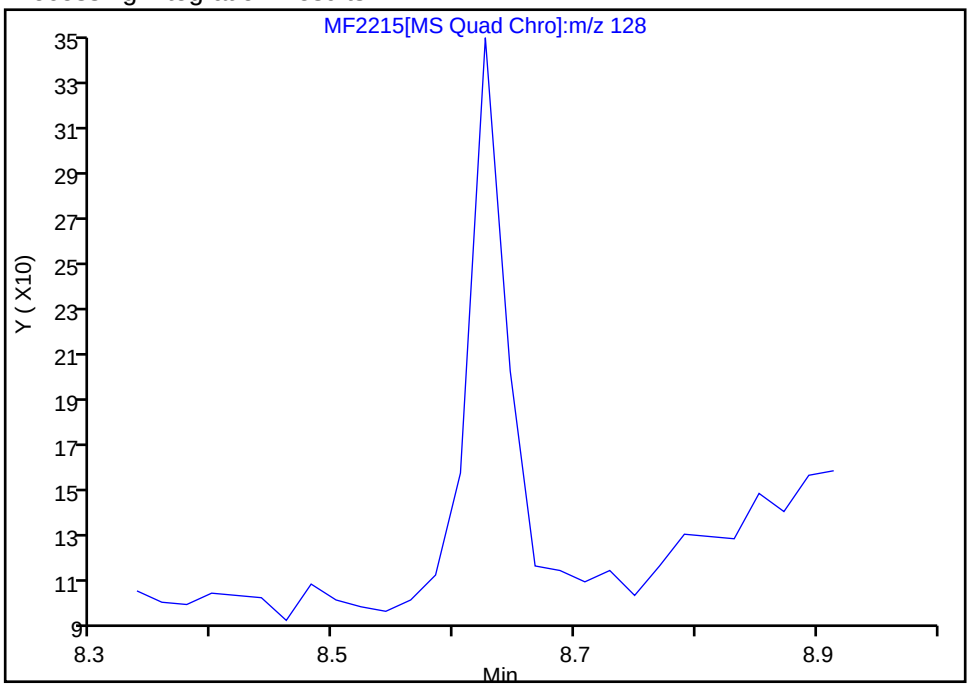
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2215.D				
Injection Date:	01-Jul-2021 04:33:20	Instrument ID:	HP21585		
Lims ID:	410-45105-A-9-A	Lab Sample ID:	410-45105-9		
Client ID:	MW-14D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

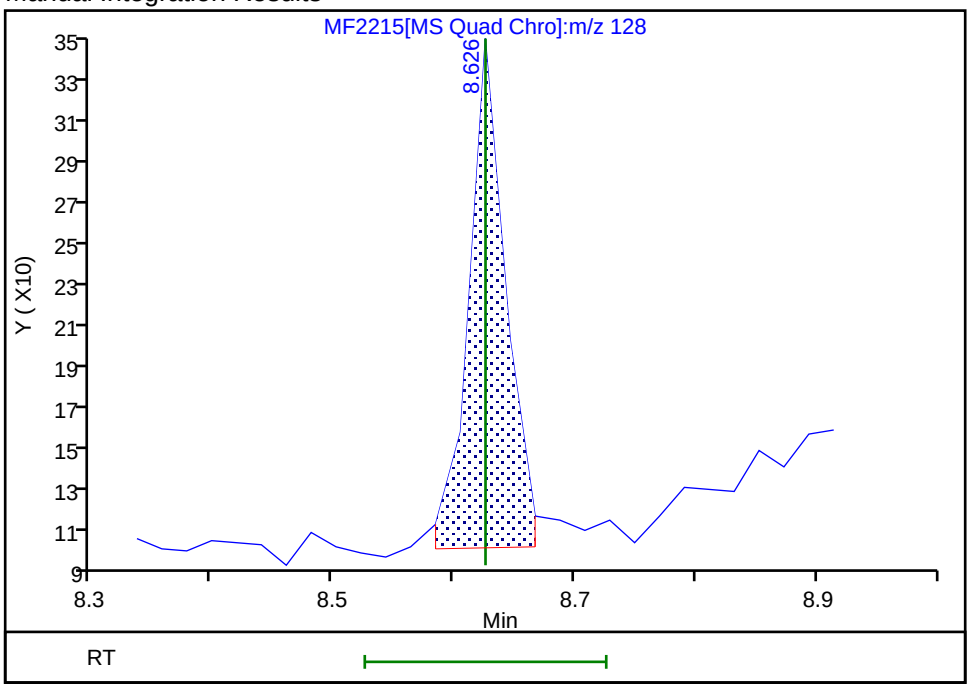
Not Detected
Expected RT: 8.63

Processing Integration Results



Manual Integration Results

RT: 8.63
Area: 519
Amount: 0.003831
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:38:08
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-12S-20210623 Lab Sample ID: 410-45105-10

Matrix: Groundwater Lab File ID: MF2216.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 15:06

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 241.1(mL) Date Analyzed: 07/01/2021 05:04

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	ND		0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	0.014	J	0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	42		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		36-111
93951-69-0	Fluoranthene-d10 (Surr)	86		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2216.D				
Lims ID:	410-45105-A-10-A				
Client ID:	MW-12S-20210623				
Sample Type:	Client				
Inject. Date:	01-Jul-2021 05:04:04	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-45105-A-10-A				
Misc. Info.:	410-0033298-017				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Jul-2021 09:45:43	Calib Date:	03-Jun-2021 11:51:27		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1647				
First Level Reviewer: gamblerj		Date:	01-Jul-2021 09:40:53		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	88	8227	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	91	27813	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	13332	0.1844	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	97	18355	0.2500	
* 20 Phenanthrene-d10	188	13.281	13.289	-0.008	96	35480	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	35631	0.2146	
26 Pyrene	202	15.301	15.313	-0.006	97	713	0.003308	
* 29 Chrysene-d12	240	17.325	17.325	0.000	55	43536	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.664	19.664	0.008	97	17959	0.1045	
* 38 Perylene-d12	264	19.794	19.787	0.007	98	44940	0.2500	

QC Flag Legend

Processing Flags

Reagents:

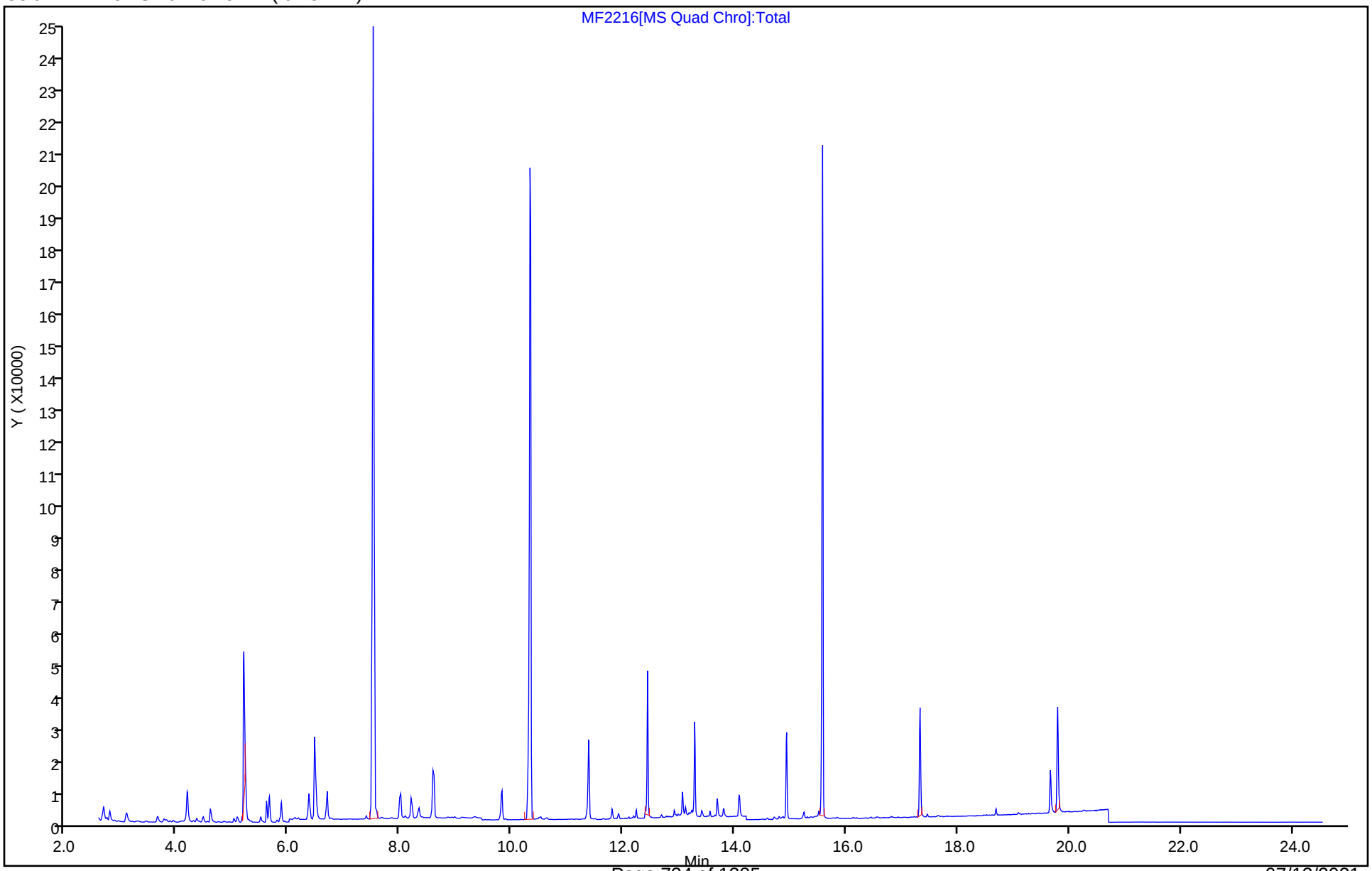
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 01-Jul-2021 09:47:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2216.D				
Injection Date:	01-Jul-2021 05:04:04	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-10-A	Lab Sample ID:	410-45105-10	Worklist Smp#:	17
Client ID:	MW-12S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

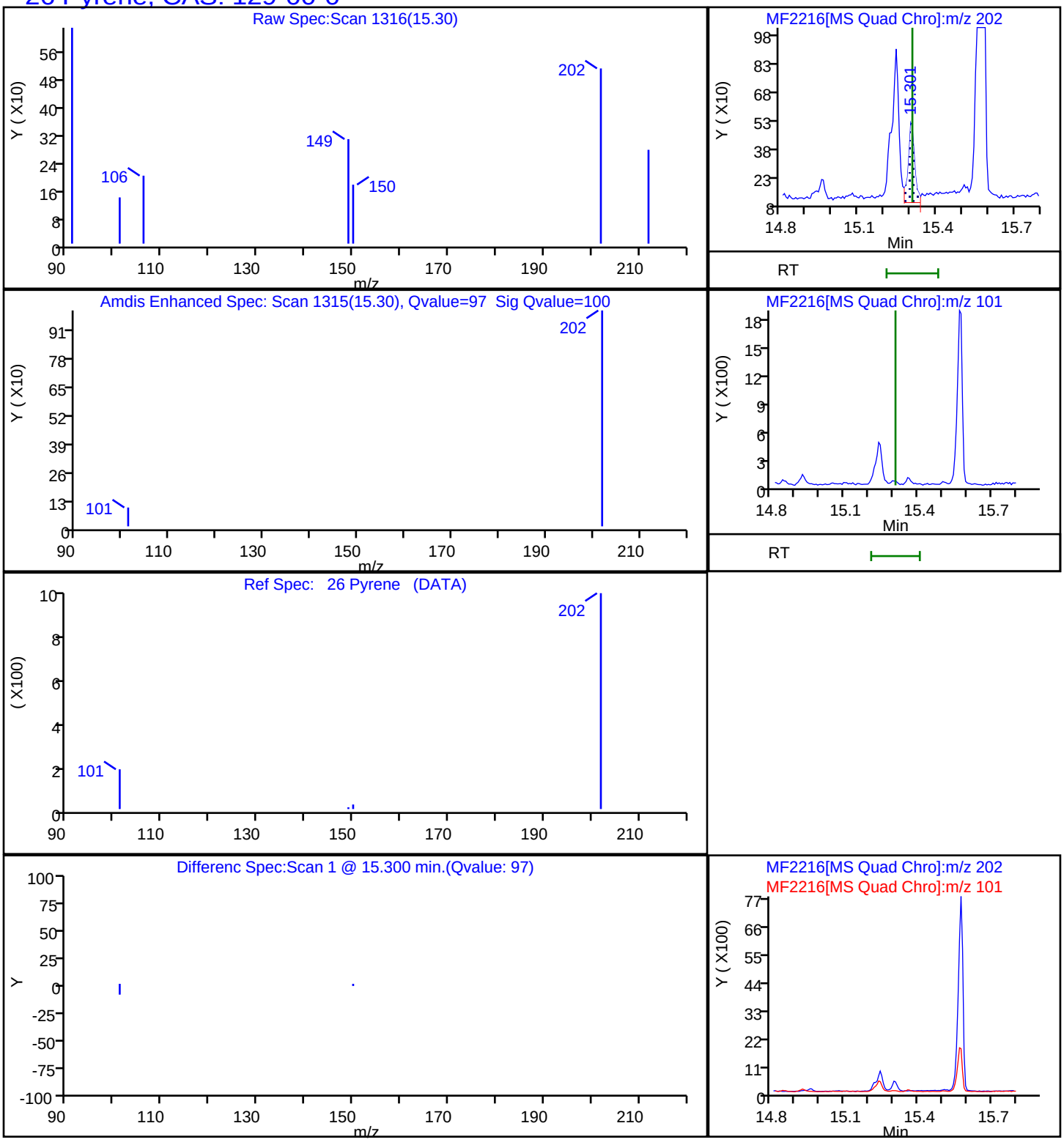
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2216.D				
Injection Date:	01-Jul-2021 05:04:04	Instrument ID:	HP21585		
Lims ID:	410-45105-A-10-A	Lab Sample ID:	410-45105-10		
Client ID:	MW-12S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



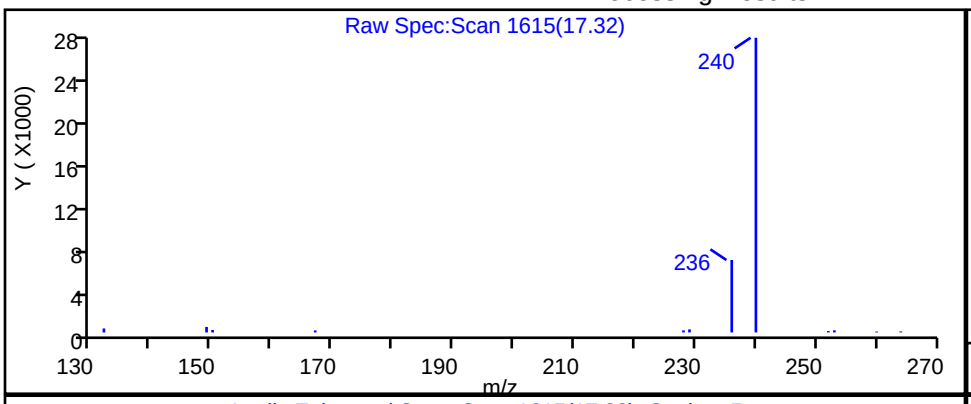
User Disabled Compound Report

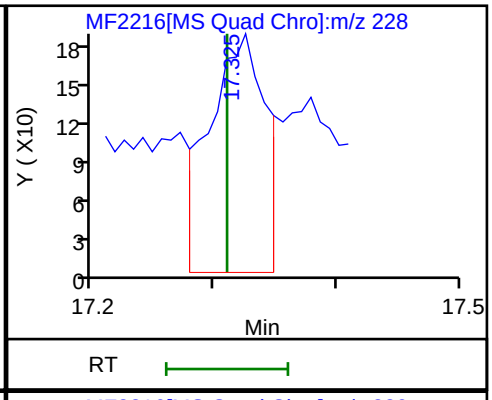
Eurofins Lancaster Laboratories Environment Testing, LLC

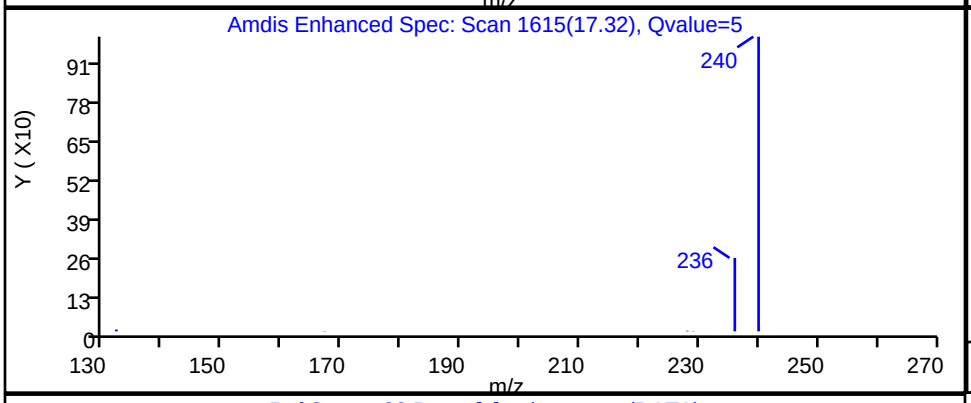
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2216.D				
Injection Date:	01-Jul-2021 05:04:04	Instrument ID:	HP21585		
Lims ID:	410-45105-A-10-A	Lab Sample ID:	410-45105-10		
Client ID:	MW-12S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

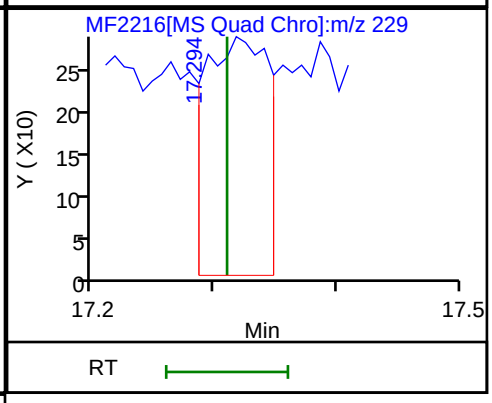
28 Benzo[a]anthracene, CAS: 56-55-3

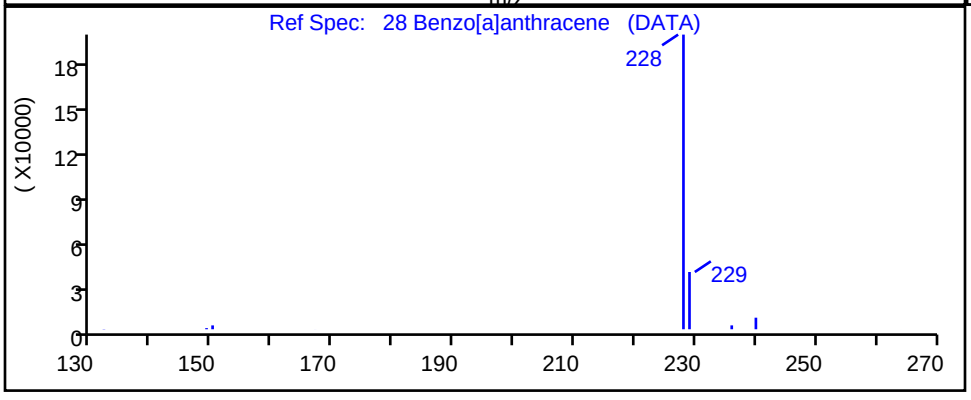
Processing Results











RT	Mass	Response	Amount
17.32	228.00	569	0.002520
17.29	229.00	968	

Reviewer: gamblerj, 01-Jul-2021 09:40:44

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

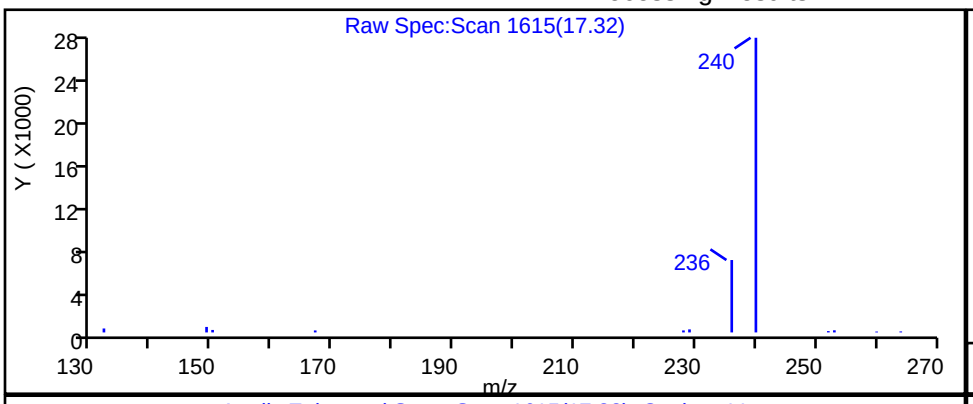
User Disabled Compound Report

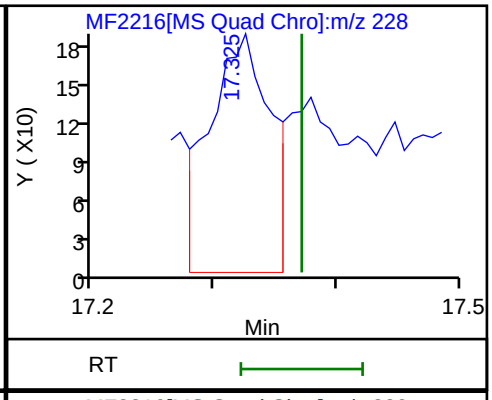
Eurofins Lancaster Laboratories Environment Testing, LLC

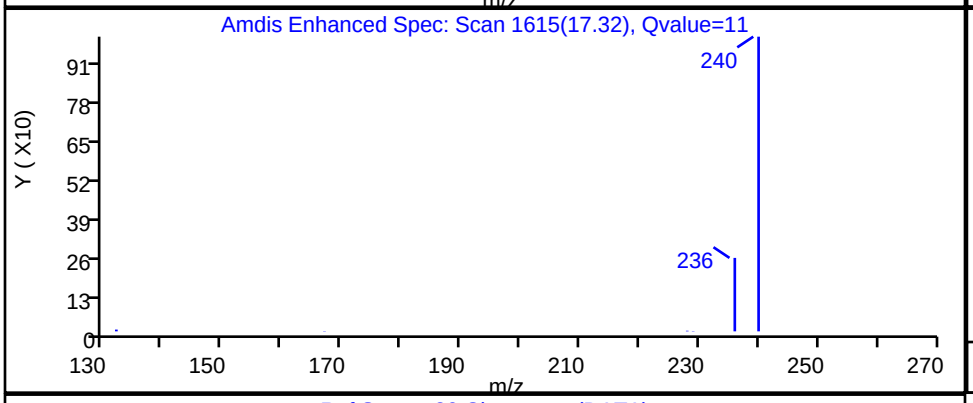
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2216.D				
Injection Date:	01-Jul-2021 05:04:04	Instrument ID:	HP21585		
Lims ID:	410-45105-A-10-A	Lab Sample ID:	410-45105-10		
Client ID:	MW-12S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

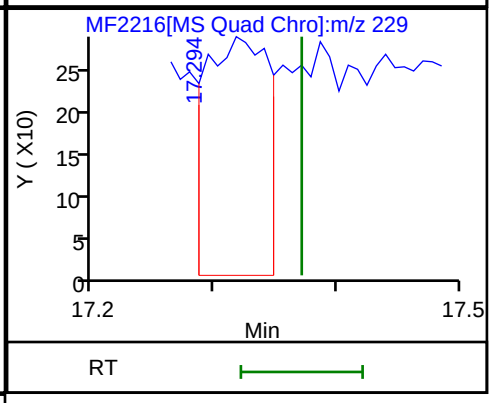
30 Chrysene, CAS: 218-01-9

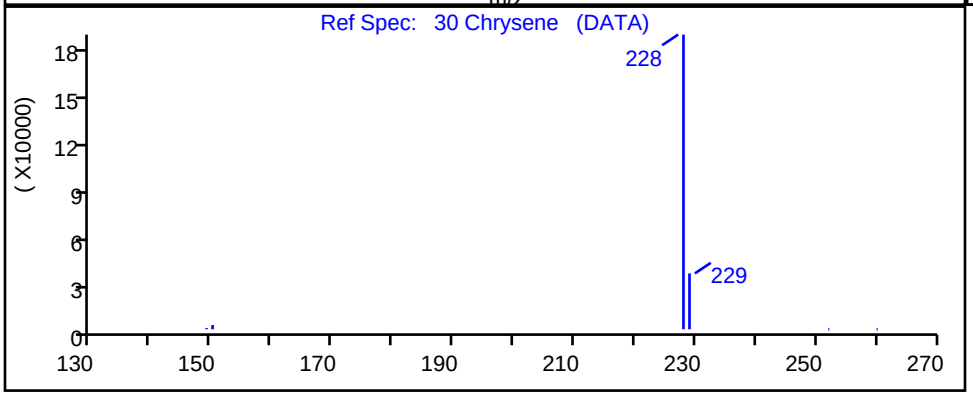
Processing Results











RT	Mass	Response	Amount
17.32	228.00	624	0.002621
17.29	229.00	968	

Reviewer: gamblerj, 01-Jul-2021 09:40:46

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

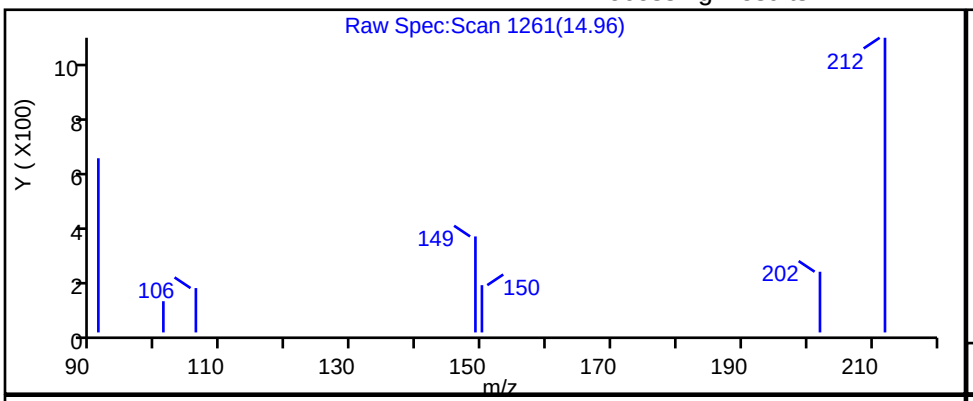
User Disabled Compound Report

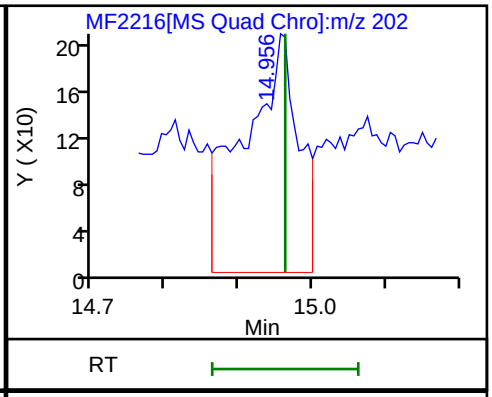
Eurofins Lancaster Laboratories Environment Testing, LLC

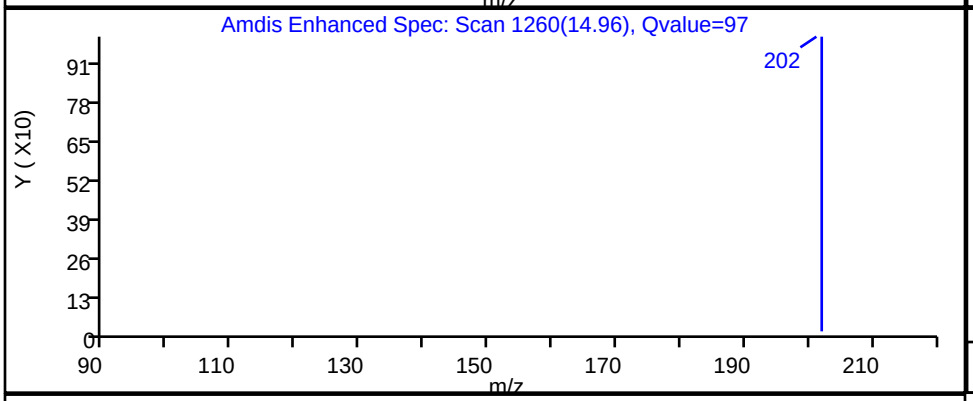
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2216.D				
Injection Date:	01-Jul-2021 05:04:04	Instrument ID:	HP21585		
Lims ID:	410-45105-A-10-A	Lab Sample ID:	410-45105-10		
Client ID:	MW-12S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

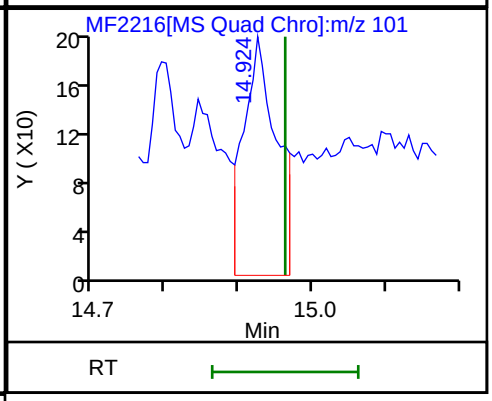
25 Fluoranthene, CAS: 206-44-0

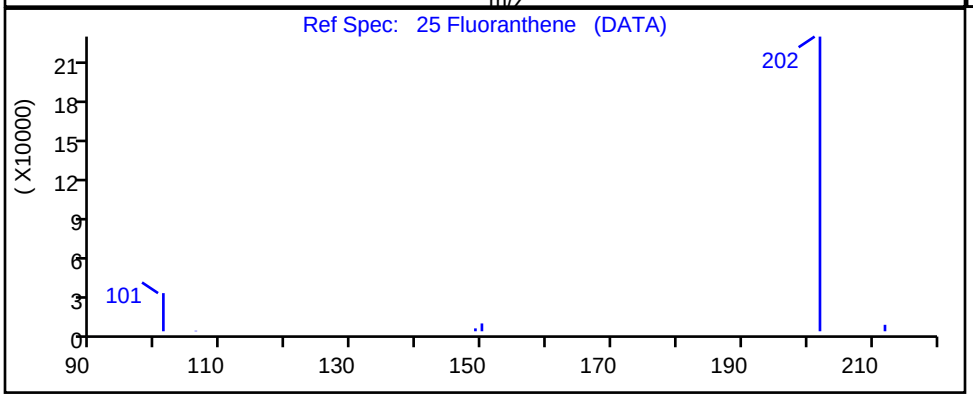
Processing Results











RT	Mass	Response	Amount
14.96	202.00	1079	0.005448
14.92	101.00	602	

Reviewer: gamblerj, 01-Jul-2021 09:40:41

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-12D-20210623 Lab Sample ID: 410-45105-11

Matrix: Groundwater Lab File ID: MF2217.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 15:46

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 234.9(mL) Date Analyzed: 07/01/2021 05:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.053	0.011
208-96-8	Acenaphthylene	ND		0.053	0.011
120-12-7	Anthracene	ND		0.053	0.011
56-55-3	Benzo[a]anthracene	ND		0.053	0.011
50-32-8	Benzo[a]pyrene	ND		0.053	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.053	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.053	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.053	0.011
218-01-9	Chrysene	ND		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.053	0.021
206-44-0	Fluoranthene	ND		0.053	0.011
86-73-7	Fluorene	ND		0.053	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021
91-20-3	Naphthalene	ND		0.074	0.032
85-01-8	Phenanthrene	ND		0.074	0.032
129-00-0	Pyrene	ND		0.053	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	33		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	64		36-111
93951-69-0	Fluoranthene-d10 (Surr)	78		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2217.D				
Lims ID:	410-45105-A-11-A				
Client ID:	MW-12D-20210623				
Sample Type:	Client				
Inject. Date:	01-Jul-2021 05:34:46	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-45105-A-11-A				
Misc. Info.:	410-0033298-018				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Jul-2021 09:45:43	Calib Date:	03-Jun-2021 11:51:27		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1647				
First Level Reviewer: gamblerj		Date:	01-Jul-2021 09:42:14		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	89	9414	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	31755	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	13172	0.1595	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	97	21497	0.2500	
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	95	43781	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	39709	0.1938	
* 29 Chrysene-d12	240	17.325	17.325	0.000	55	47691	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.672	19.664	0.016	98	14695	0.0814	
* 38 Perylene-d12	264	19.794	19.787	0.007	97	47185	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

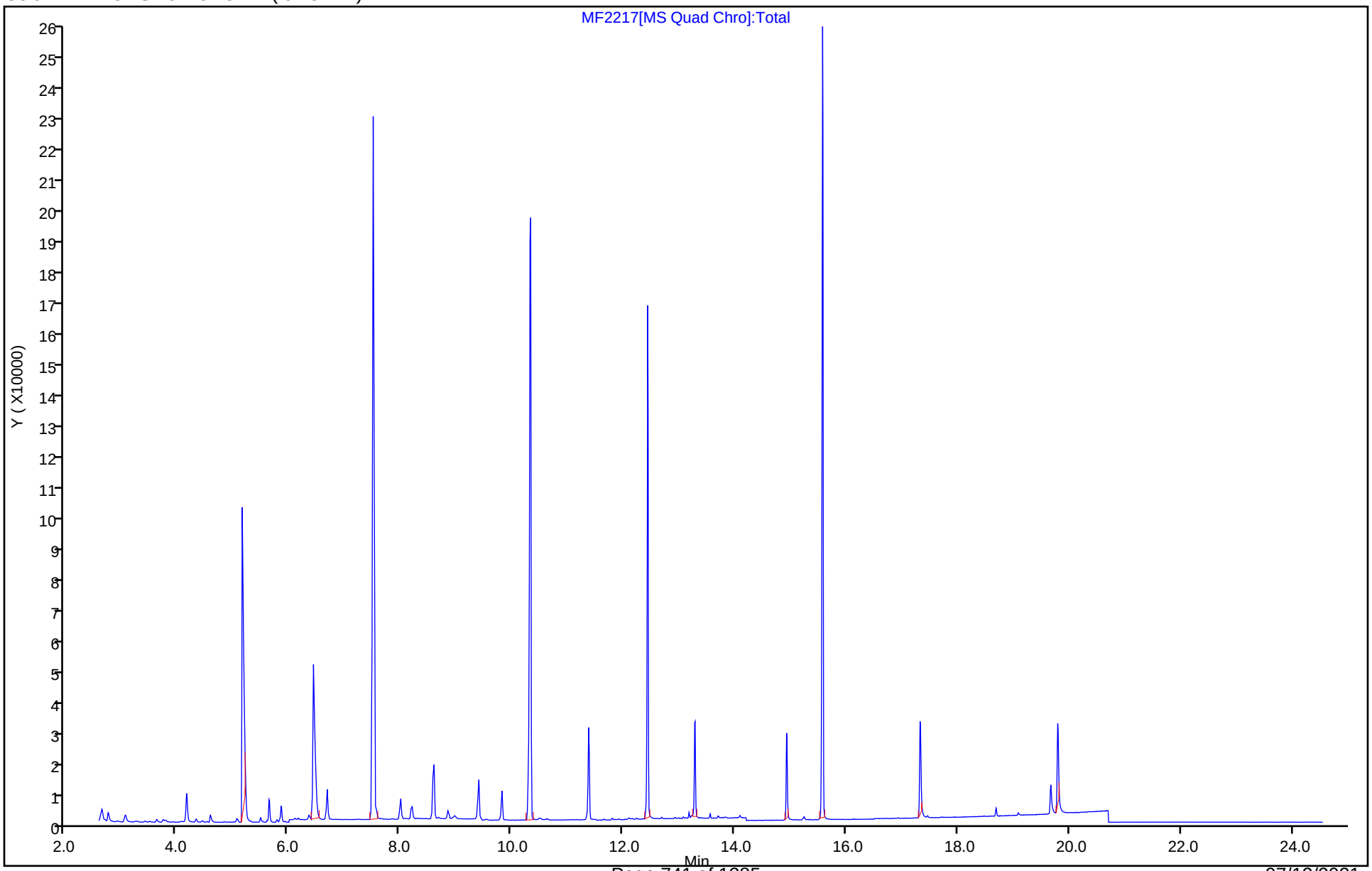
Report Date: 01-Jul-2021 09:47:47 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2217.D

Injection Date:	01-Jul-2021 05:34:46	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-11-A	Lab Sample ID:	410-45105-11	Worklist Smp#:	18
Client ID:	MW-12D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



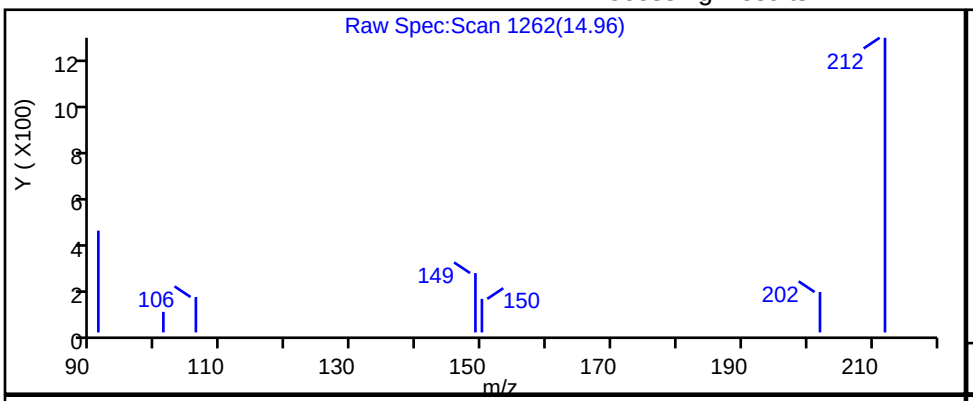
User Disabled Compound Report

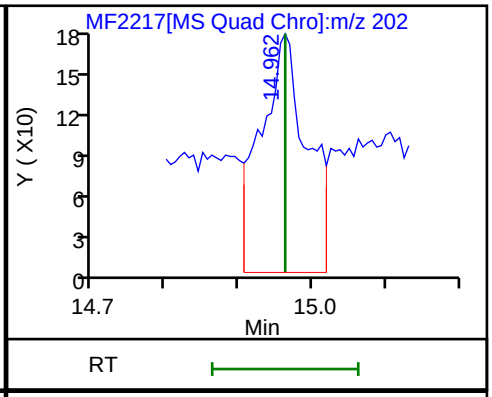
Eurofins Lancaster Laboratories Environment Testing, LLC

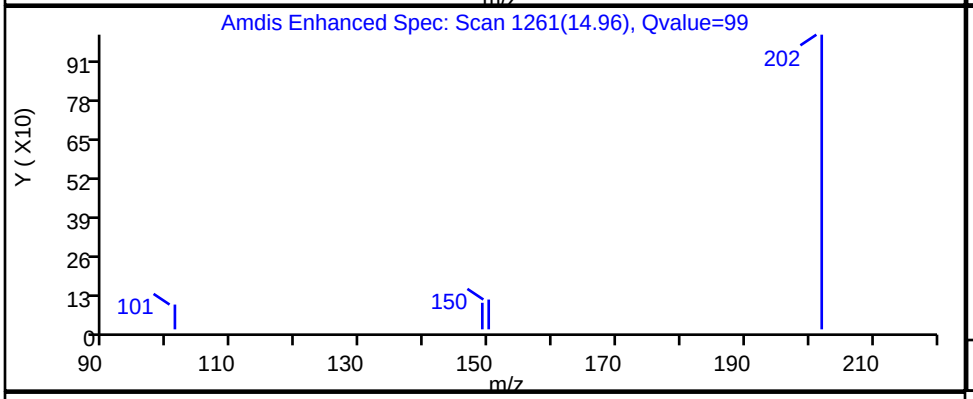
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2217.D				
Injection Date:	01-Jul-2021 05:34:46	Instrument ID:	HP21585		
Lims ID:	410-45105-A-11-A	Lab Sample ID:	410-45105-11		
Client ID:	MW-12D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

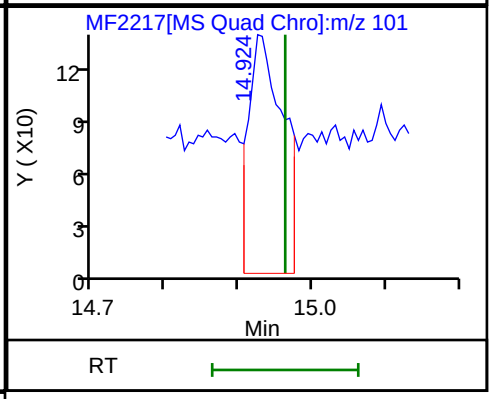
25 Fluoranthene, CAS: 206-44-0

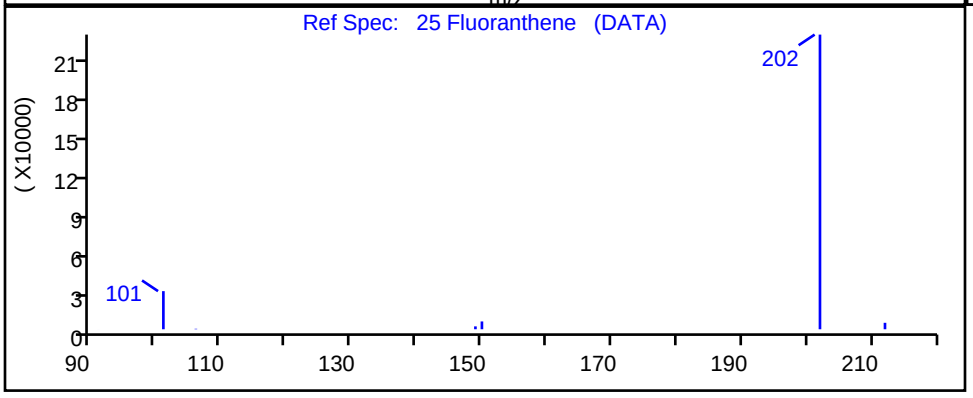
Processing Results











RT	Mass	Response	Amount
14.96	202.00	768	0.003142
14.92	101.00	440	

Reviewer: gamblerj, 01-Jul-2021 09:41:23

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

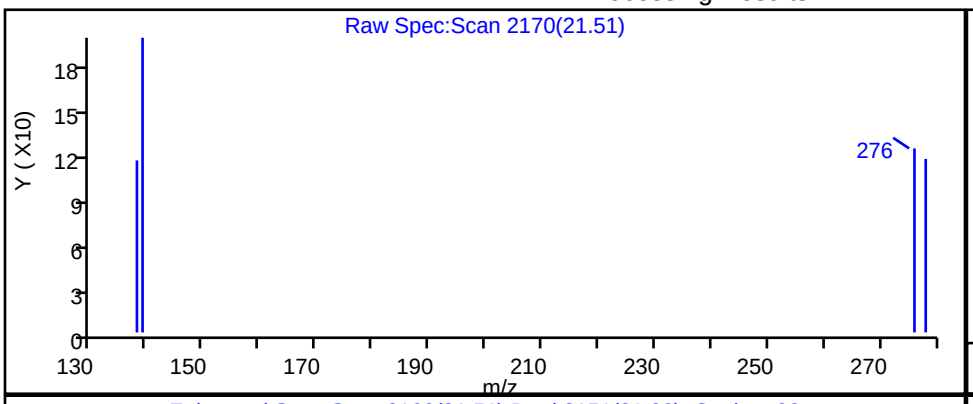
User Disabled Compound Report

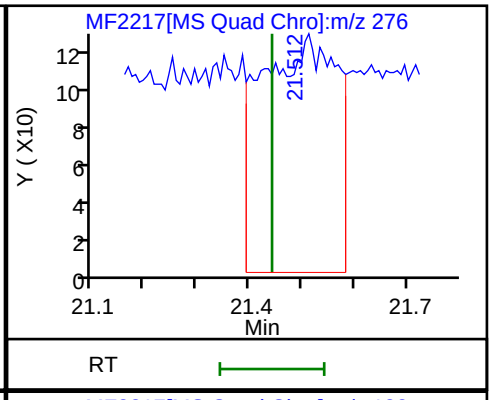
Eurofins Lancaster Laboratories Environment Testing, LLC

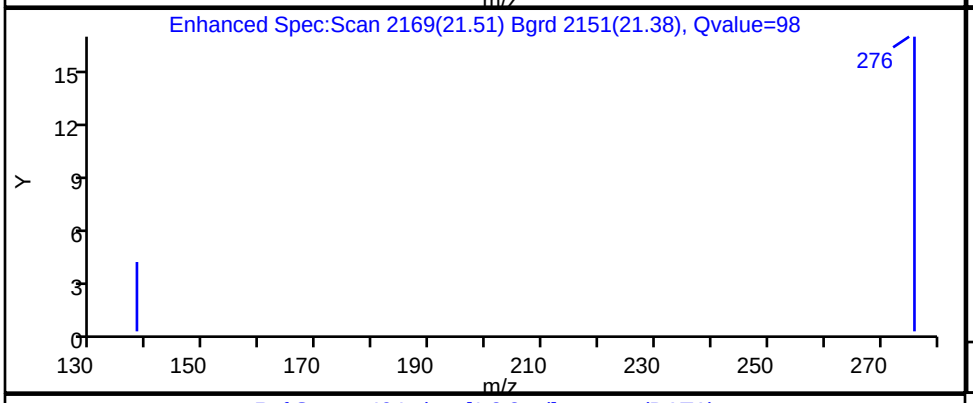
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Injection Date:	01-Jul-2021 05:34:46	Instrument ID:	HP21585		
Lims ID:	410-45105-A-11-A	Lab Sample ID:	410-45105-11		
Client ID:	MW-12D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

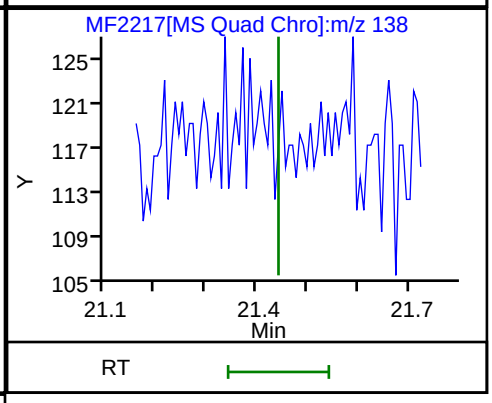
40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

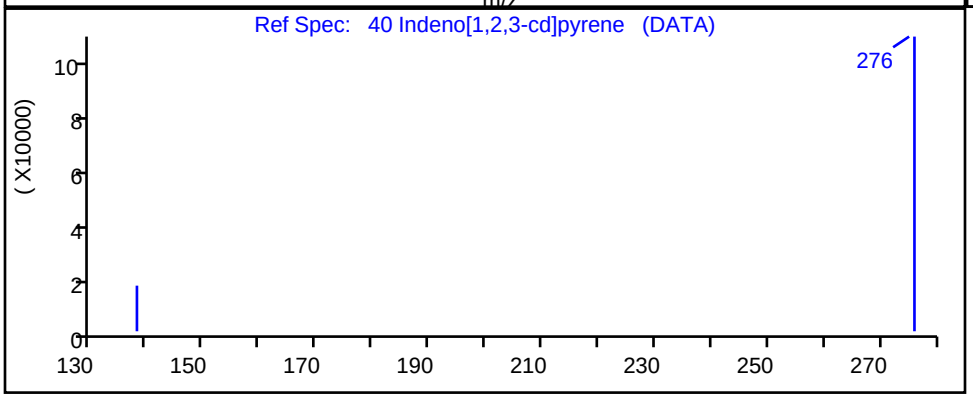
Processing Results











RT	Mass	Response	Amount
21.51	276.00	1218	0.006111
21.44	138.00	0	

Reviewer: gamblerj, 01-Jul-2021 09:41:38

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

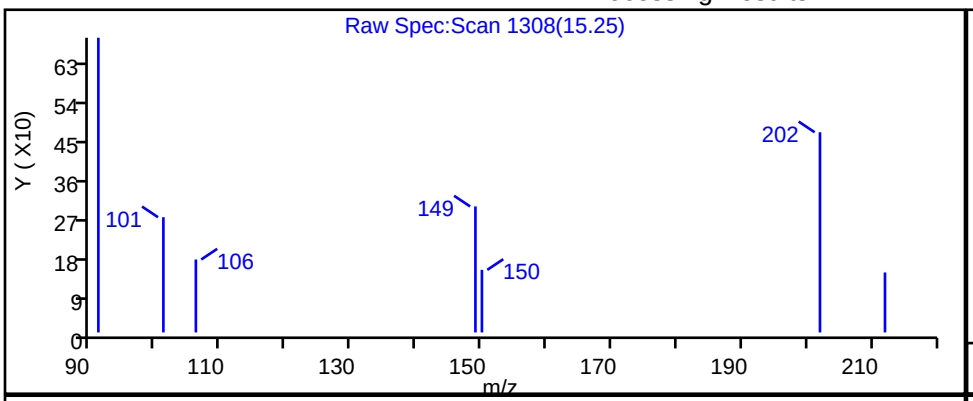
User Disabled Compound Report

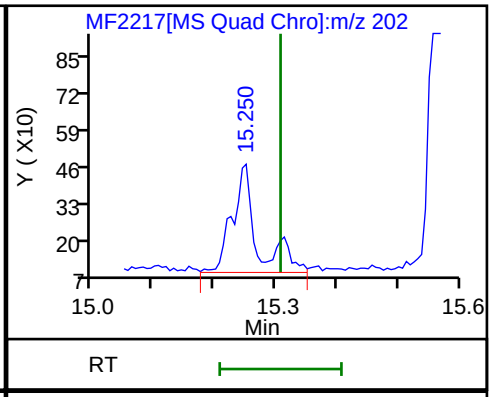
Eurofins Lancaster Laboratories Environment Testing, LLC

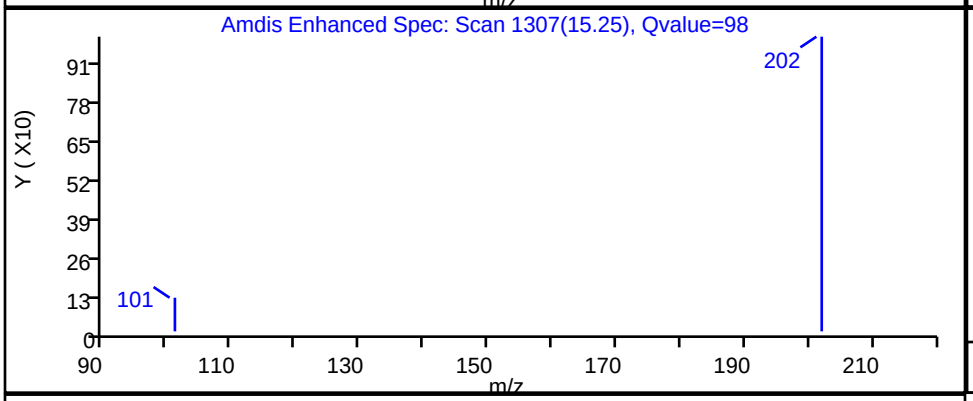
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2217.D				
Injection Date:	01-Jul-2021 05:34:46	Instrument ID:	HP21585		
Lims ID:	410-45105-A-11-A	Lab Sample ID:	410-45105-11		
Client ID:	MW-12D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

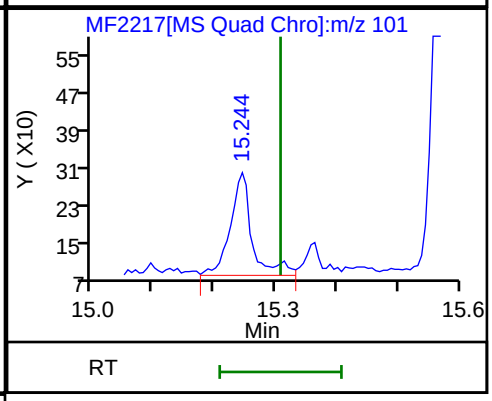
26 Pyrene, CAS: 129-00-0

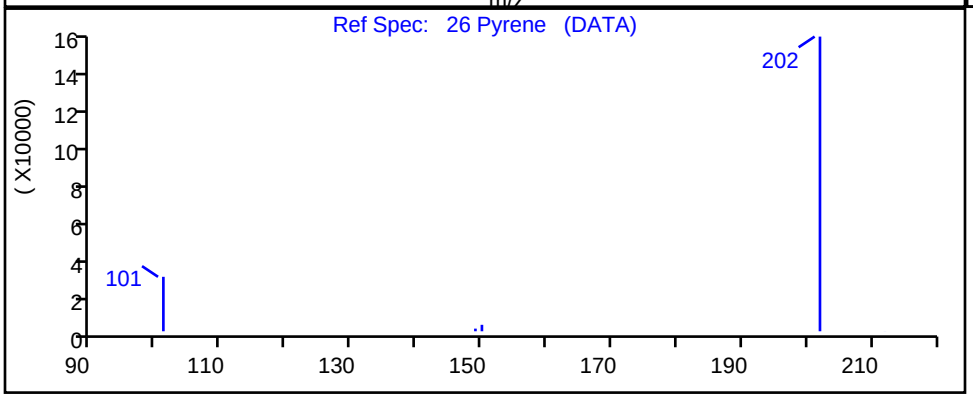
Processing Results











RT	Mass	Response	Amount
15.25	202.00	1076	0.004557
15.24	101.00	547	

Reviewer: gamblerj, 01-Jul-2021 09:41:33

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-11S-20210623 Lab Sample ID: 410-45105-12

Matrix: Groundwater Lab File ID: MF2218.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 16:33

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 240.6(mL) Date Analyzed: 07/01/2021 06:05

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.82		0.052	0.010
120-12-7	Anthracene	3.5		0.052	0.010
56-55-3	Benzo[a]anthracene	0.46		0.052	0.010
50-32-8	Benzo[a]pyrene	0.15		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.14		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.051	J	0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.052		0.052	0.010
218-01-9	Chrysene	0.34		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	4.1		0.052	0.010
86-73-7	Fluorene	8.2		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.058		0.052	0.021
91-20-3	Naphthalene	3.0		0.073	0.031
129-00-0	Pyrene	4.8		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		36-111
93951-69-0	Fluoranthene-d10 (Surr)	95		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D
Lims ID: 410-45105-A-12-A
Client ID: MW-11S-20210623
Sample Type: Client
Inject. Date: 01-Jul-2021 06:05:25 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-12-A
Misc. Info.: 410-0033298-019
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 09:45:43 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 09:44:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	88	8369	0.2500	
* 5 Naphthalene-d8	136	8.585	8.605	-0.021	91	29718	0.2500	
6 Naphthalene	128	8.626	8.626	0.000	93	87438	0.7180	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	15221	0.1970	
12 Acenaphthylene	152	11.158	11.170	-0.012	99	29417	0.1983	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	92	21896	0.2500	M
14 Acenaphthene	154	11.427	11.427	0.000	92	1058610	11.1	E
17 Fluorene	166	12.126	12.134	-0.008	96	243605	1.98	
* 20 Phenanthrene-d10	188	13.281	13.289	-0.008	98	35052	0.2500	
21 Phenanthrene	178	13.312	13.312	0.000	100	396033	2.66	E
22 Anthracene	178	13.375	13.383	-0.008	100	115707	0.8405	
$ 24 Fluoranthene-d10 (Surr)	212	14.924	14.922	-0.007	97	38889	0.2371	
25 Fluoranthene	202	14.956	14.956	-0.006	99	194640	0.99	
26 Pyrene	202	15.294	15.313	-0.013	98	251643	1.16	
28 Benzo[a]anthracene	228	17.302	17.310	-0.008	100	25489	0.1117	
* 29 Chrysene-d12	240	17.317	17.325	-0.008	94	43986	0.2500	
30 Chrysene	228	17.363	17.371	-0.008	100	19625	0.0816	M
33 Benzo[b]fluoranthene	252	19.173	19.181	0.007	100	8169	0.0340	M
34 Benzo[k]fluoranthene	252	19.211	19.227	-0.001	92	3256	0.0125	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.656	19.664	0.000	98	38685	0.1961	
37 Benzo[a]pyrene	252	19.702	19.702	0.007	100	8158	0.0352	
* 38 Perylene-d12	264	19.787	19.787	0.000	98	51587	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.456	21.477	0.014	98	3018	0.0139	M
42 Benzo[g,h,i]perylene	276	21.872	21.881	-0.001	94	3203	0.0124	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Reagents:

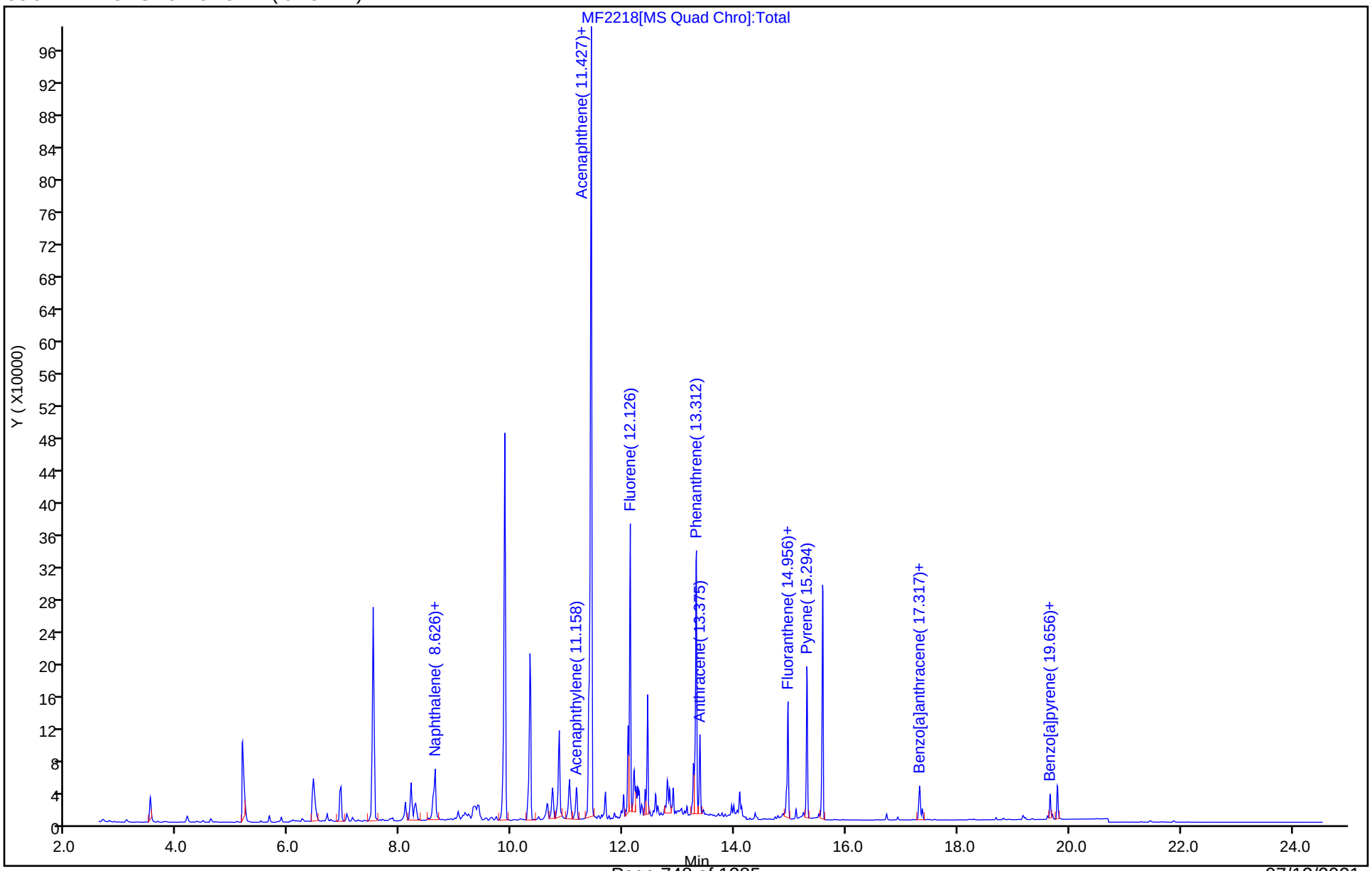
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 01-Jul-2021 09:47:49 Chrom Revision: 2.3 13-May-2021 07:57:40

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Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12	Worklist Smp#:	19
Client ID:	MW-11S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

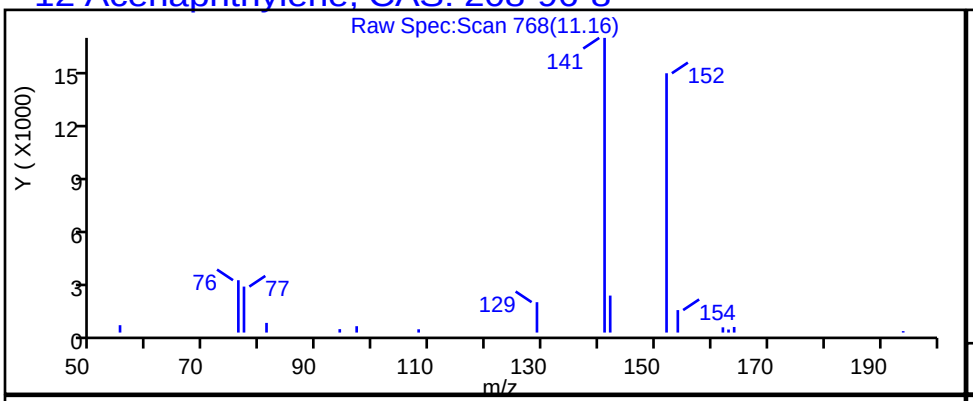
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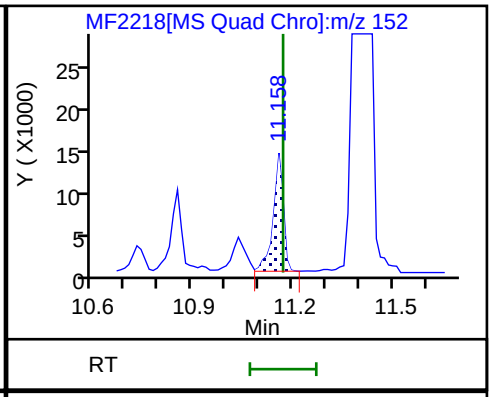


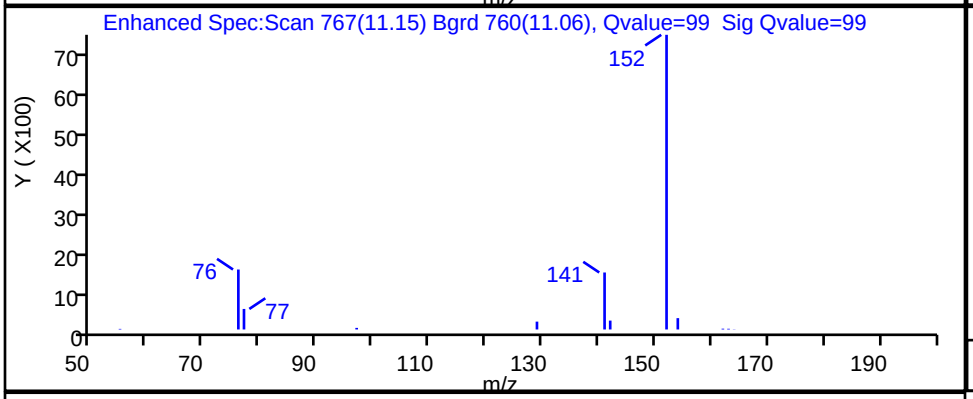
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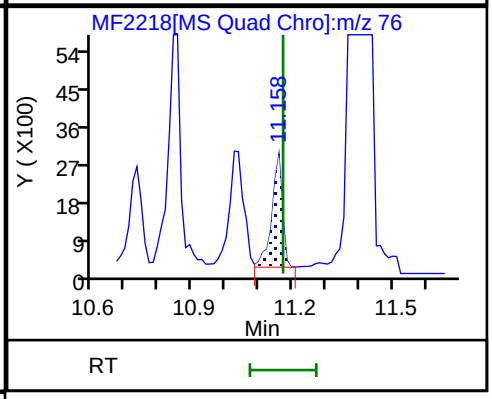
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Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12
Client ID:	MW-11S-20210623		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

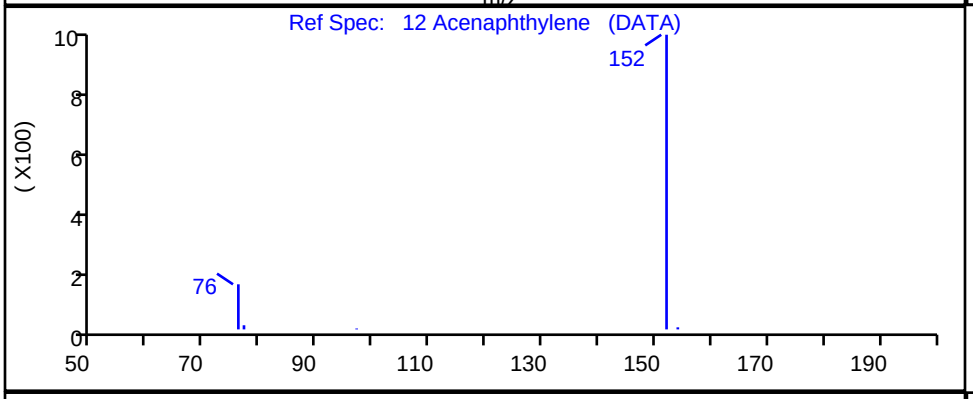
12 Acenaphthylene, CAS: 208-96-8

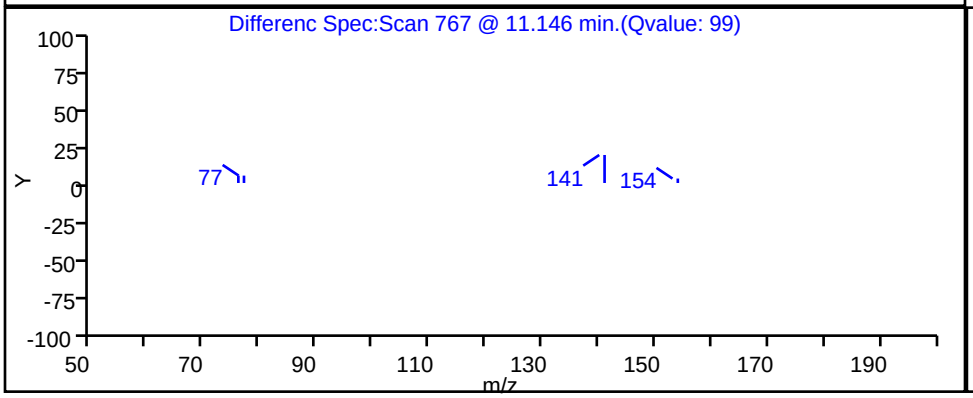


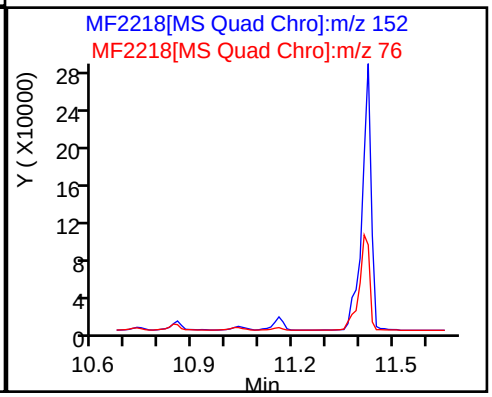








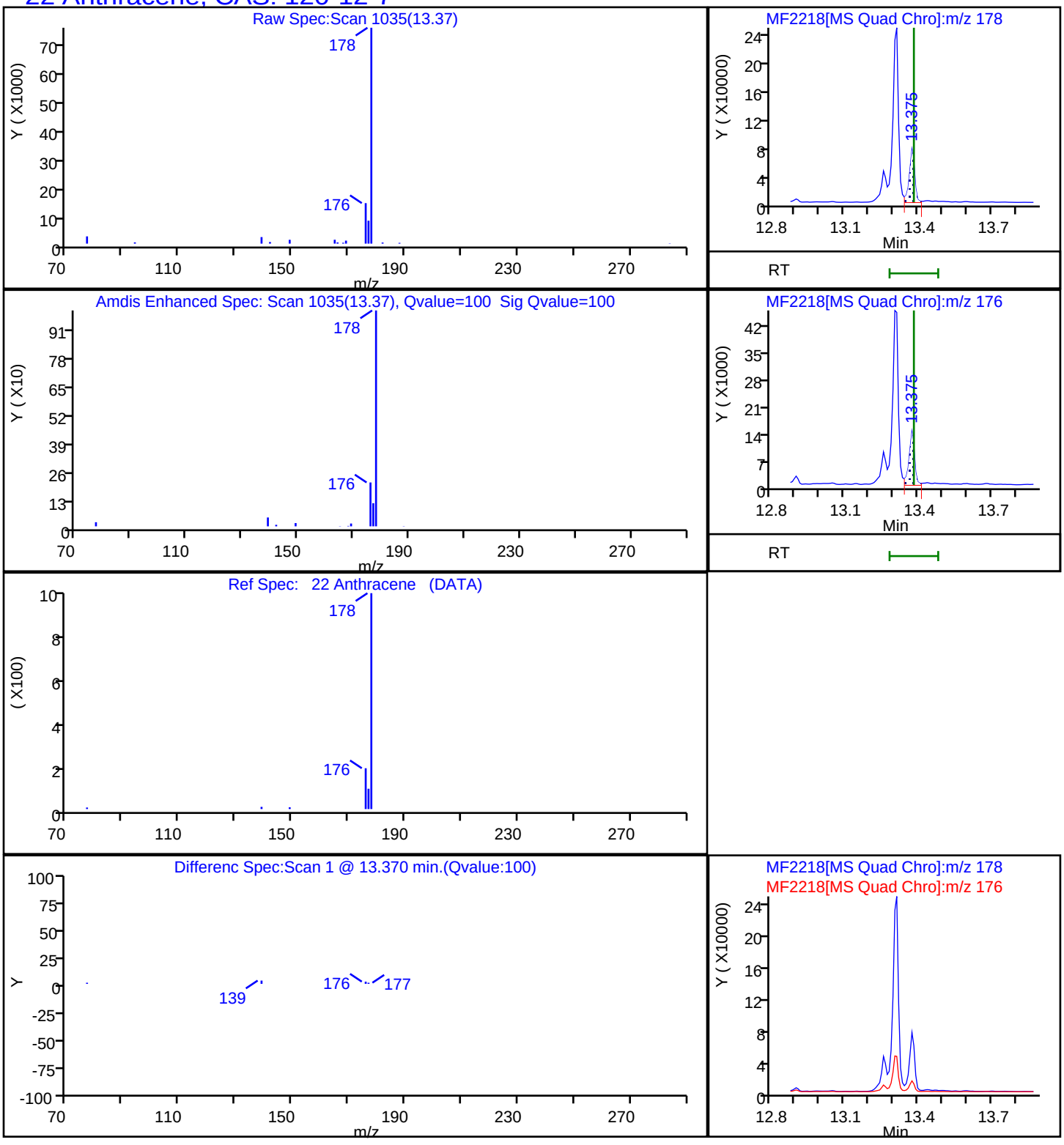




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Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7



Report Date: 01-Jul-2021 09:47:49 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

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Lims ID: 410-45105-A-12-A Lab Sample ID: 410-45105-12

Client ID: MW-11S-20210623

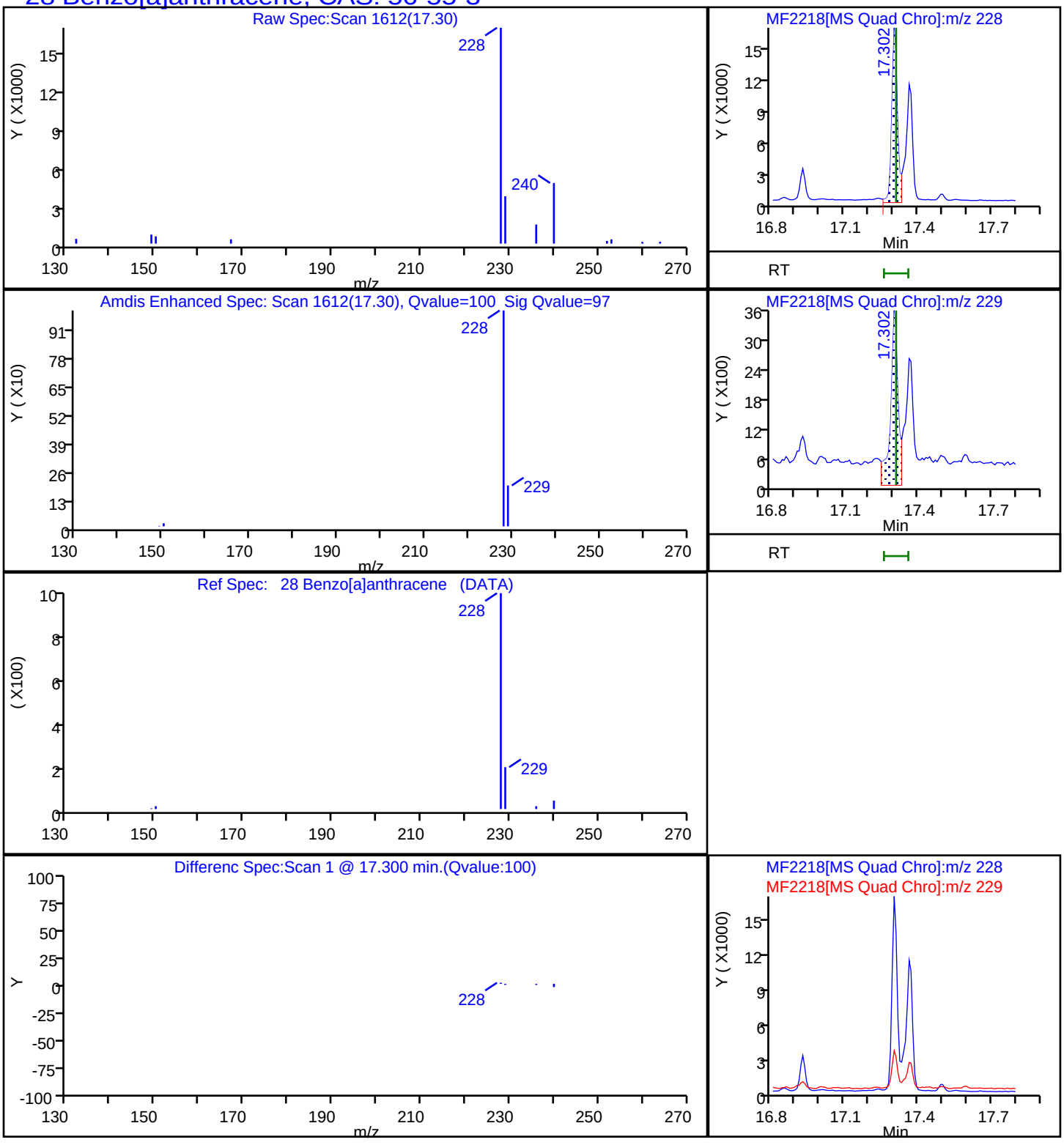
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Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

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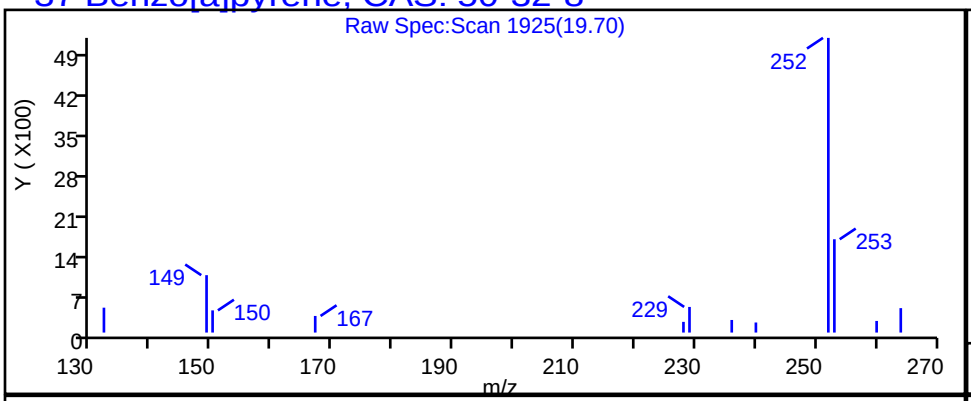
28 Benzo[a]anthracene, CAS: 56-55-3

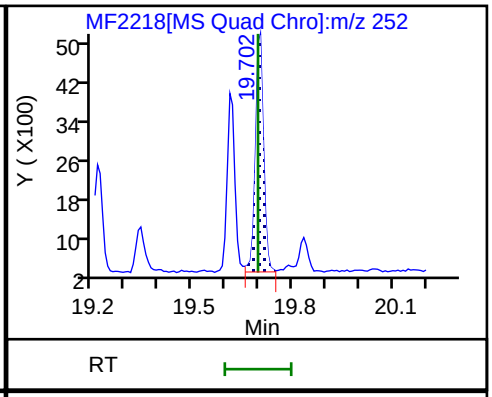


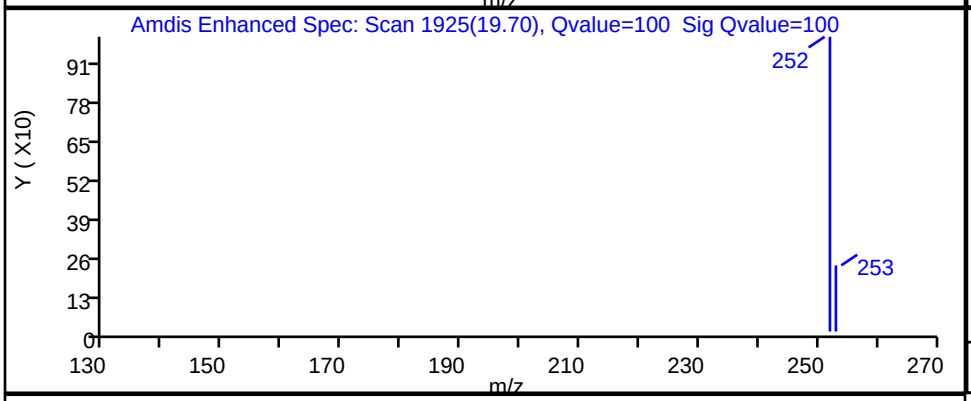
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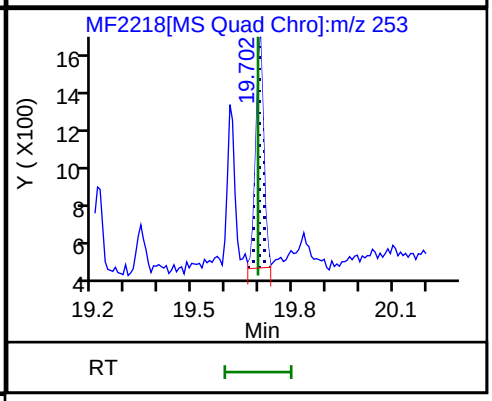
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Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

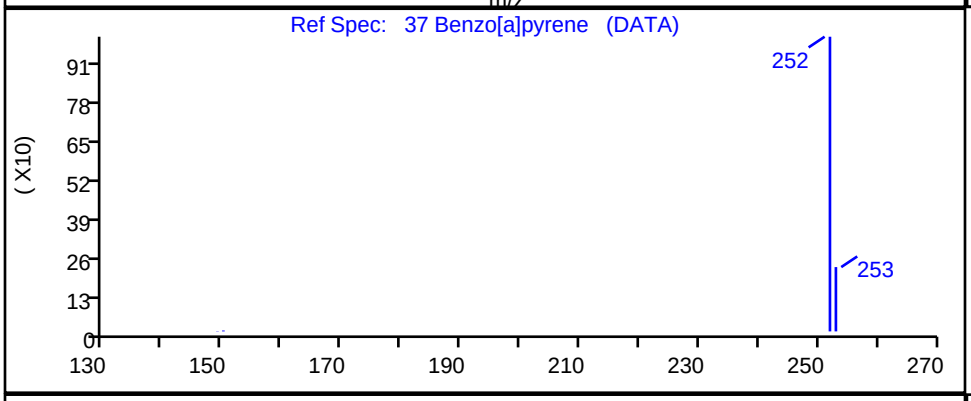
37 Benzo[a]pyrene, CAS: 50-32-8

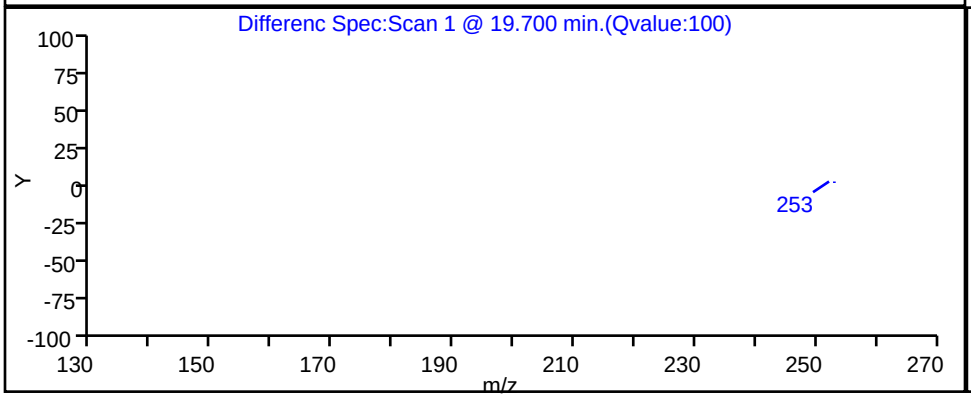


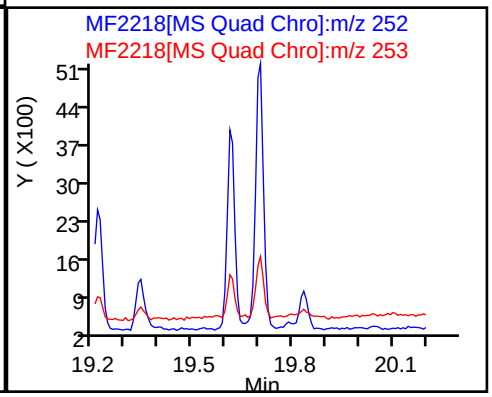








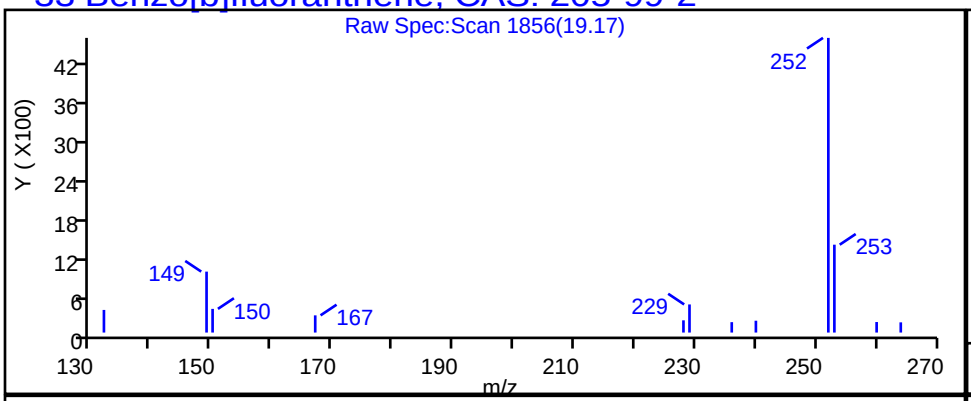


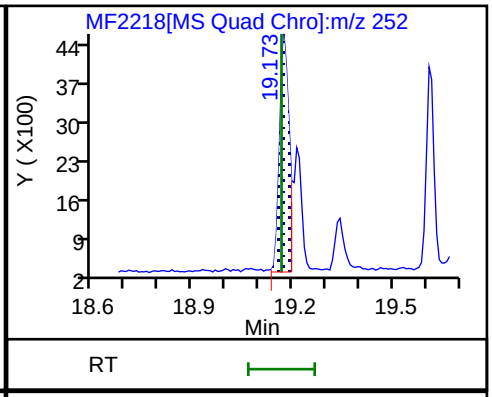


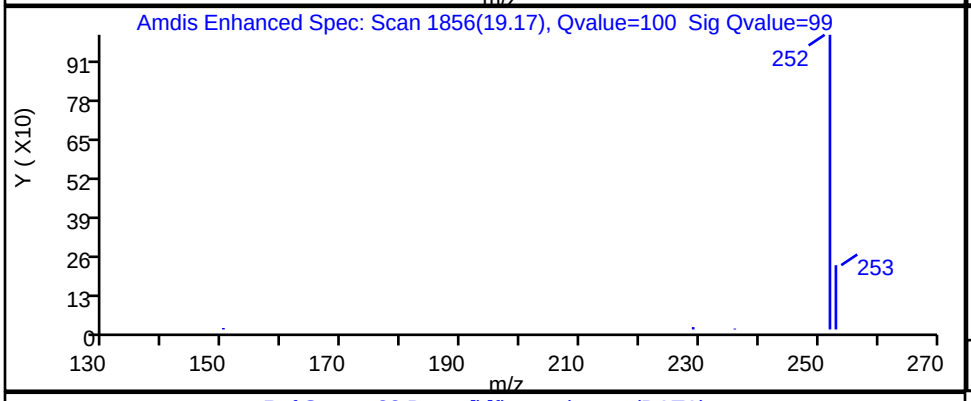
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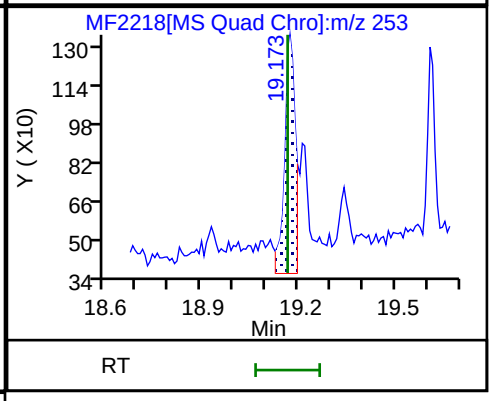
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Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

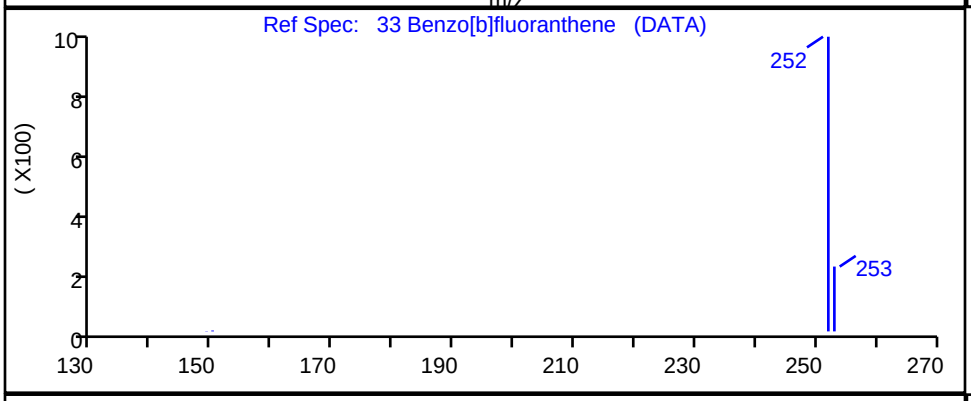
33 Benzo[b]fluoranthene, CAS: 205-99-2

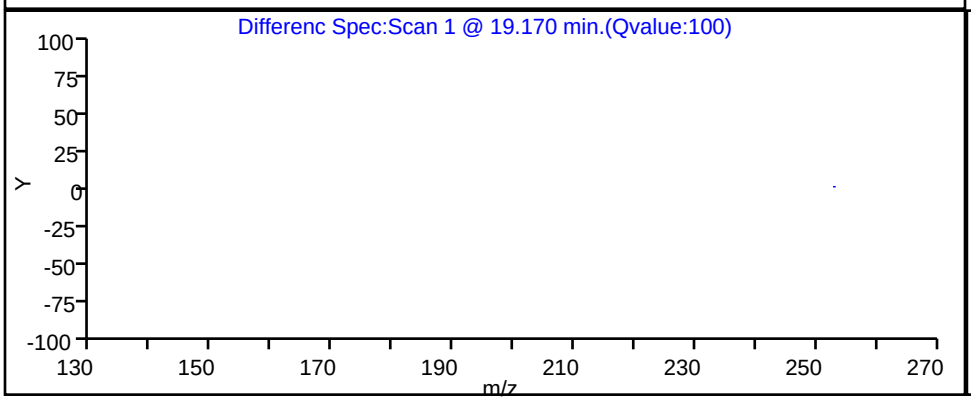


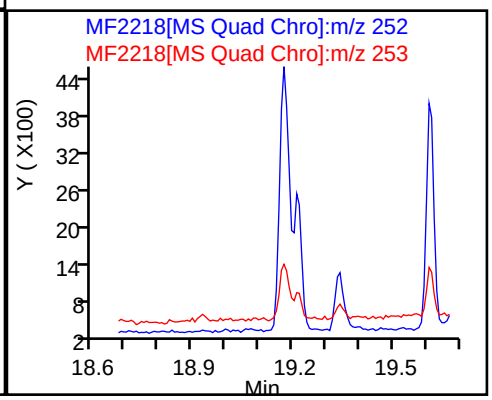








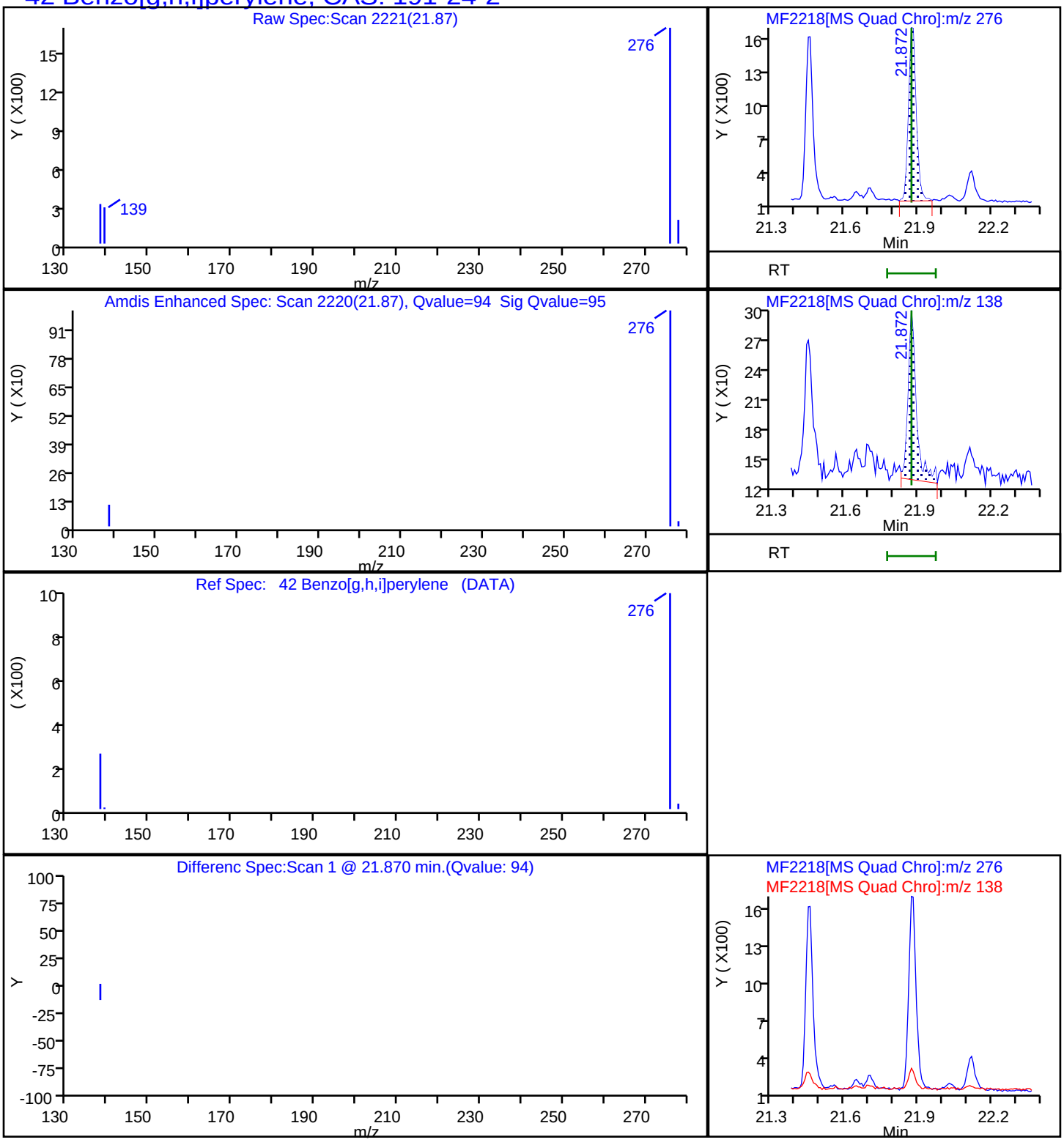




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Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

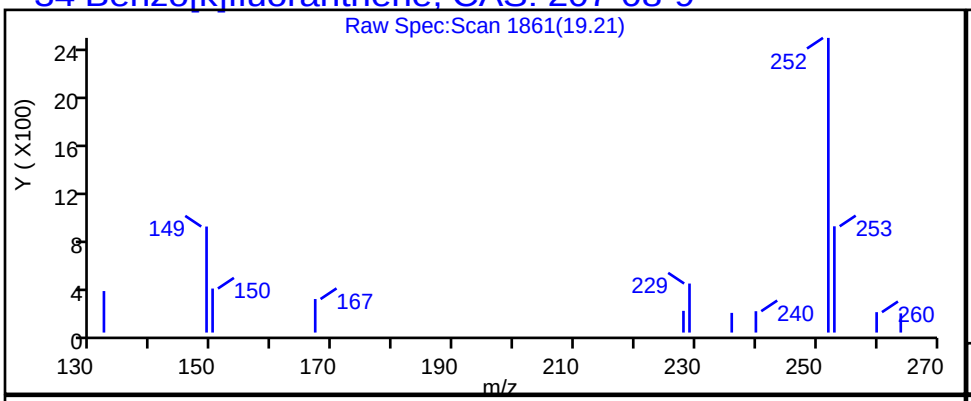
42 Benzo[g,h,i]perylene, CAS: 191-24-2

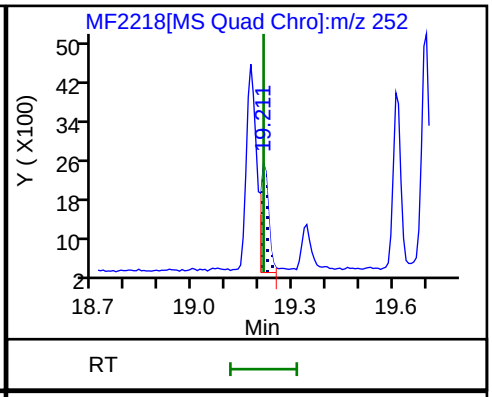


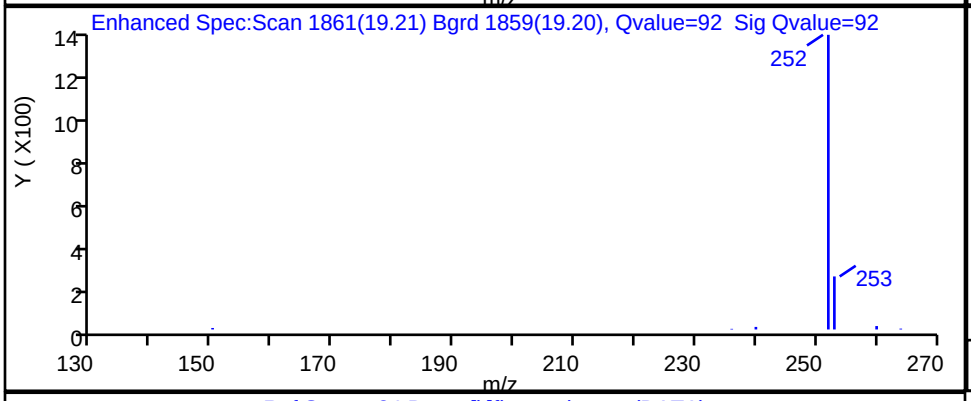
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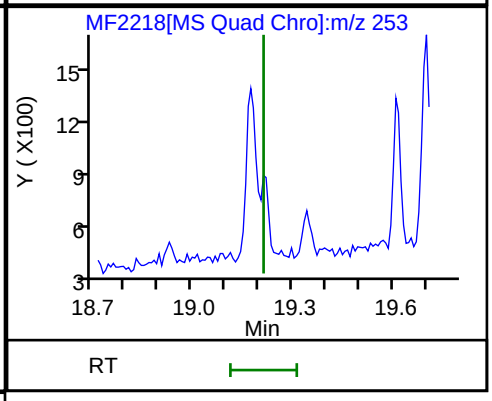
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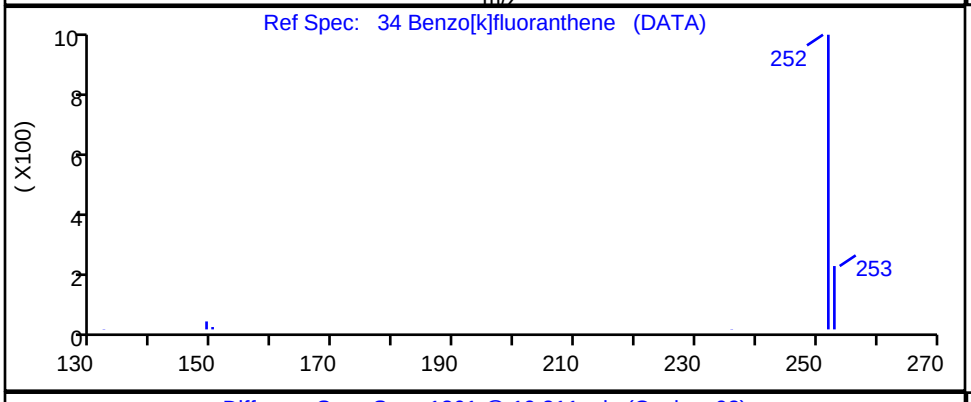
34 Benzo[k]fluoranthene, CAS: 207-08-9

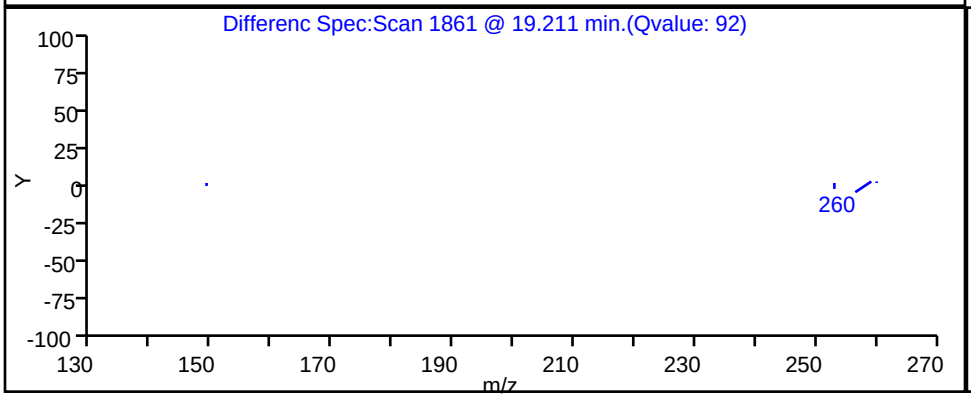


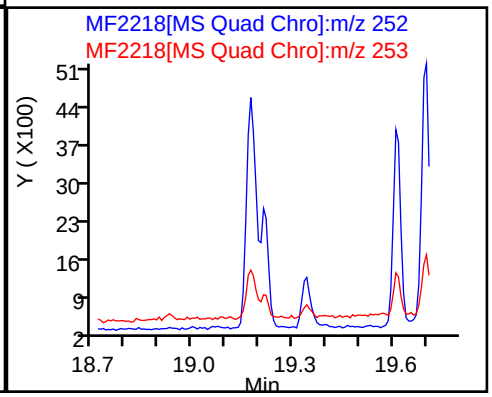










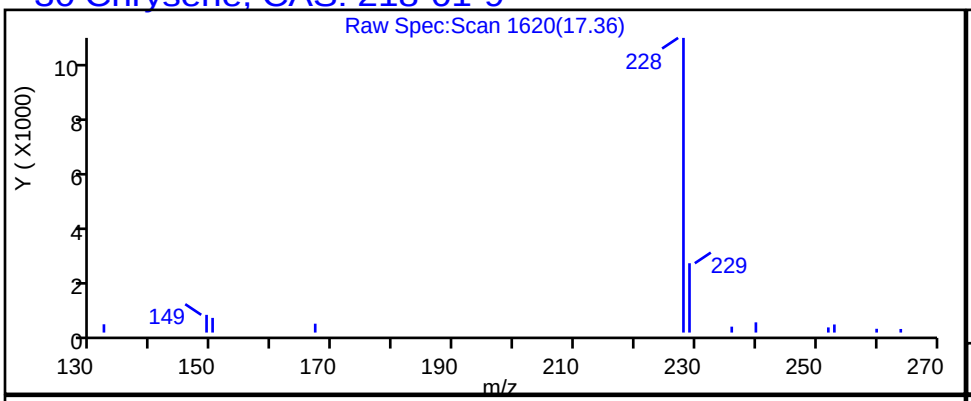


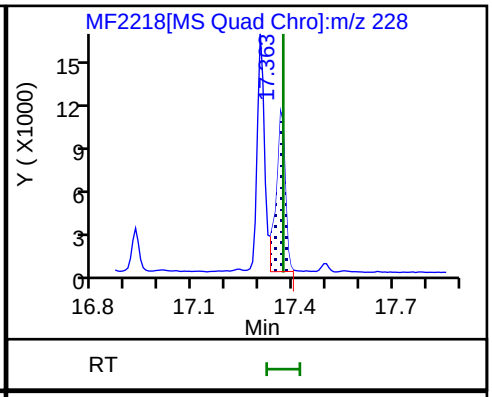
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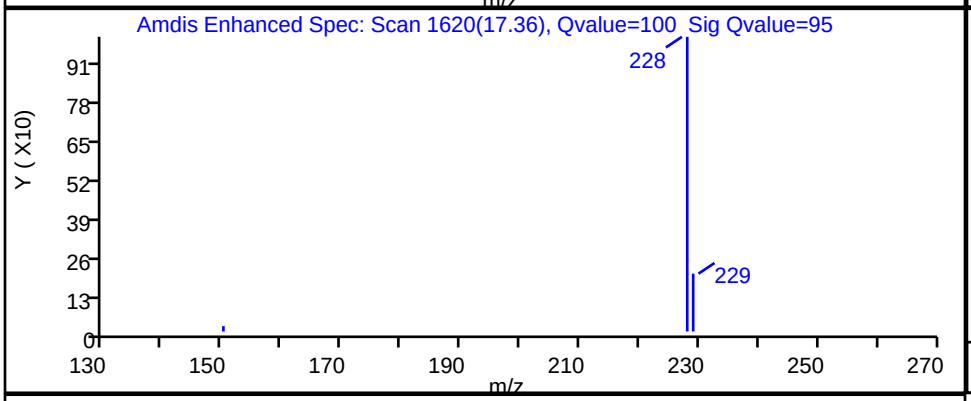
Eurofins Lancaster Laboratories Environment Testing, LLC

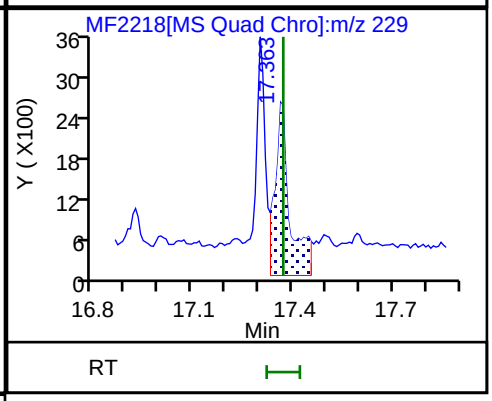
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

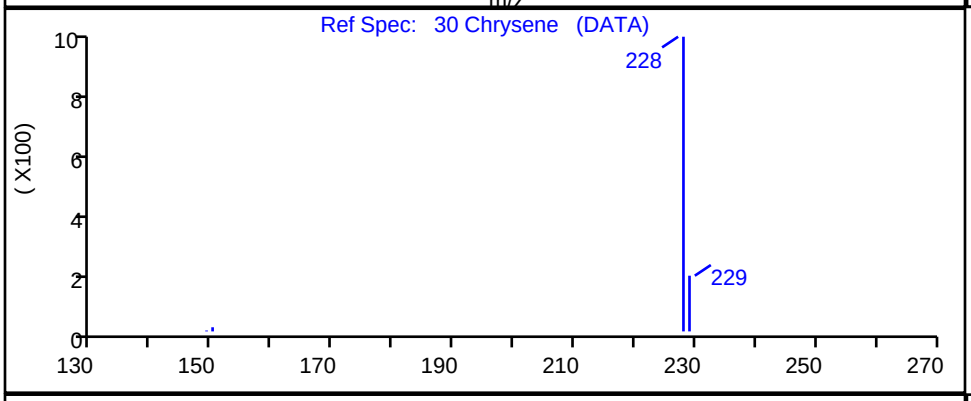
30 Chrysene, CAS: 218-01-9

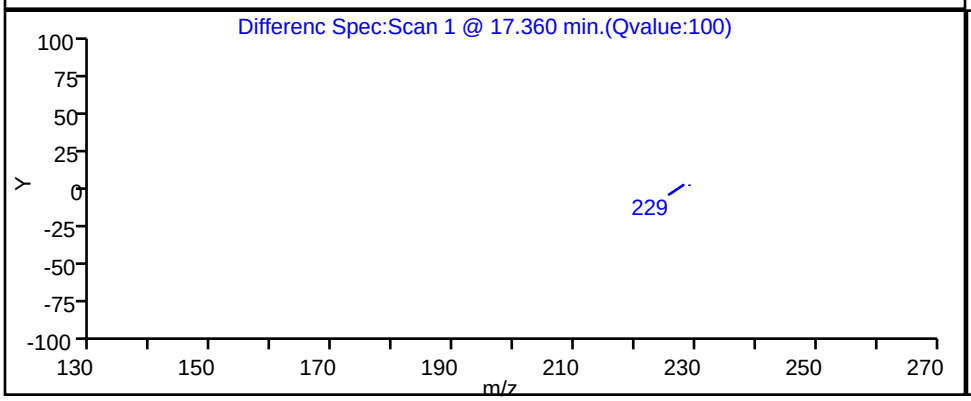


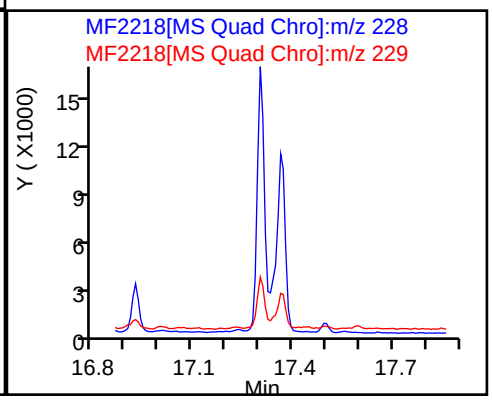












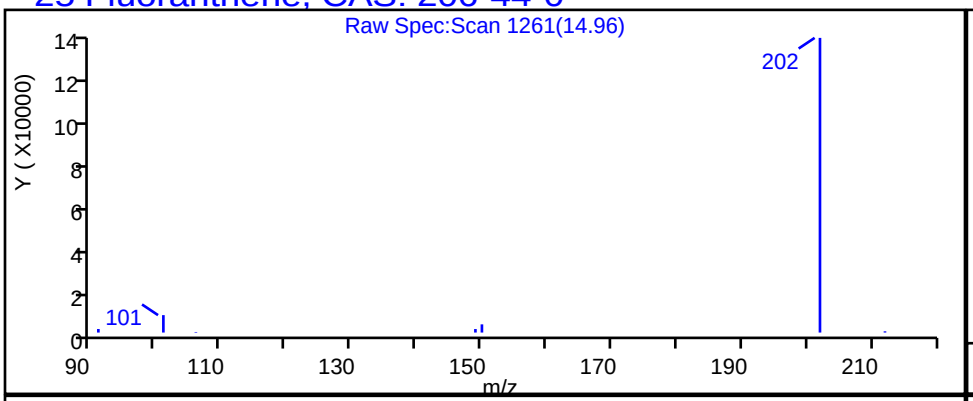
Report Date: 01-Jul-2021 09:47:49 Chrom Revision: 2.3 13-May-2021 07:57:40

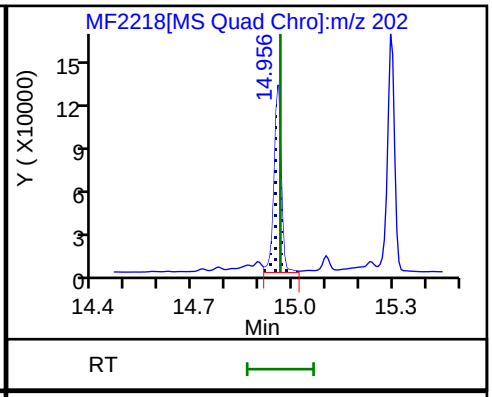
Eurofins Lancaster Laboratories Environment Testing, LLC

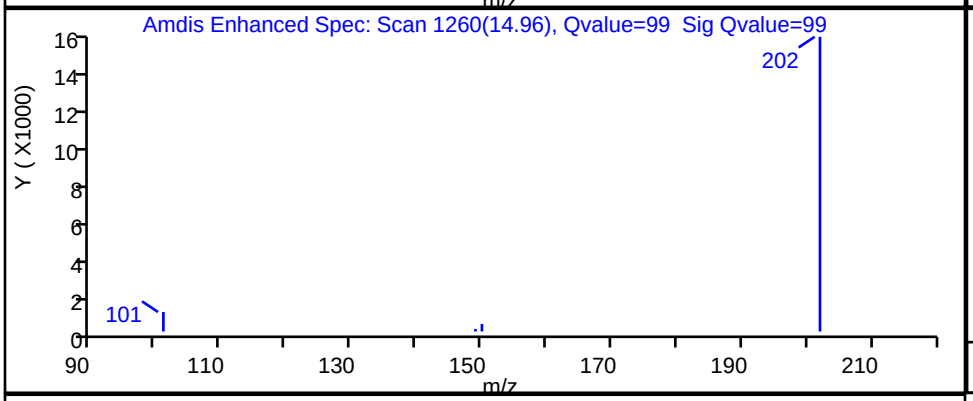
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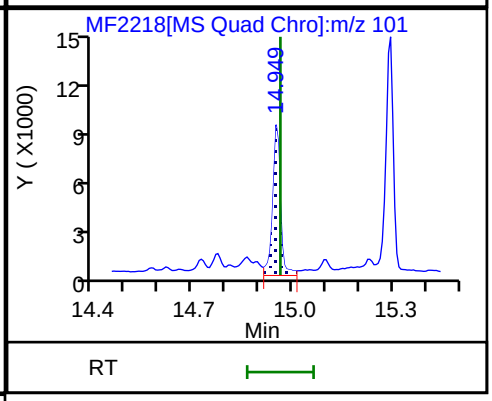
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

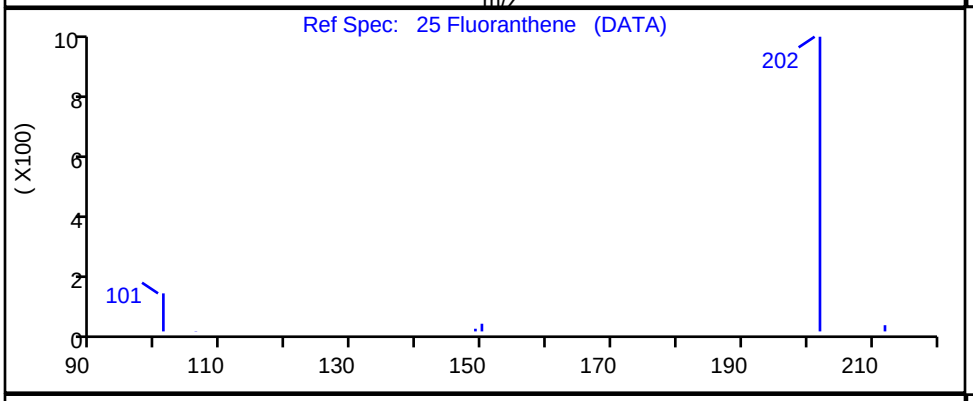
25 Fluoranthene, CAS: 206-44-0

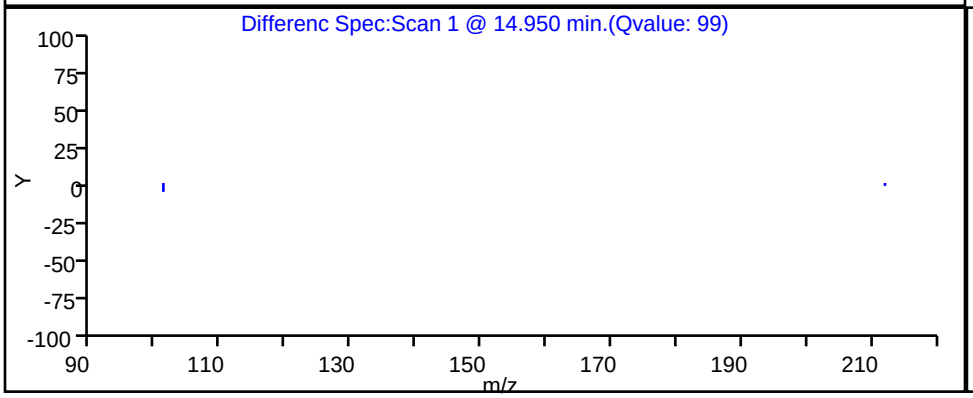


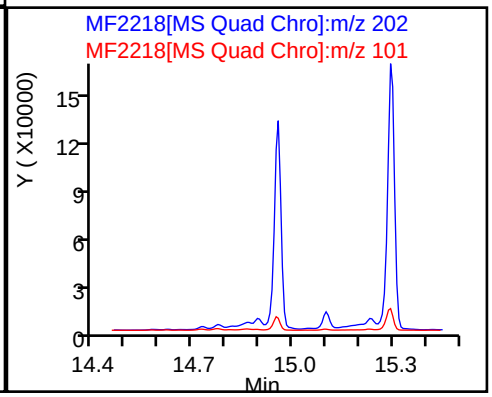








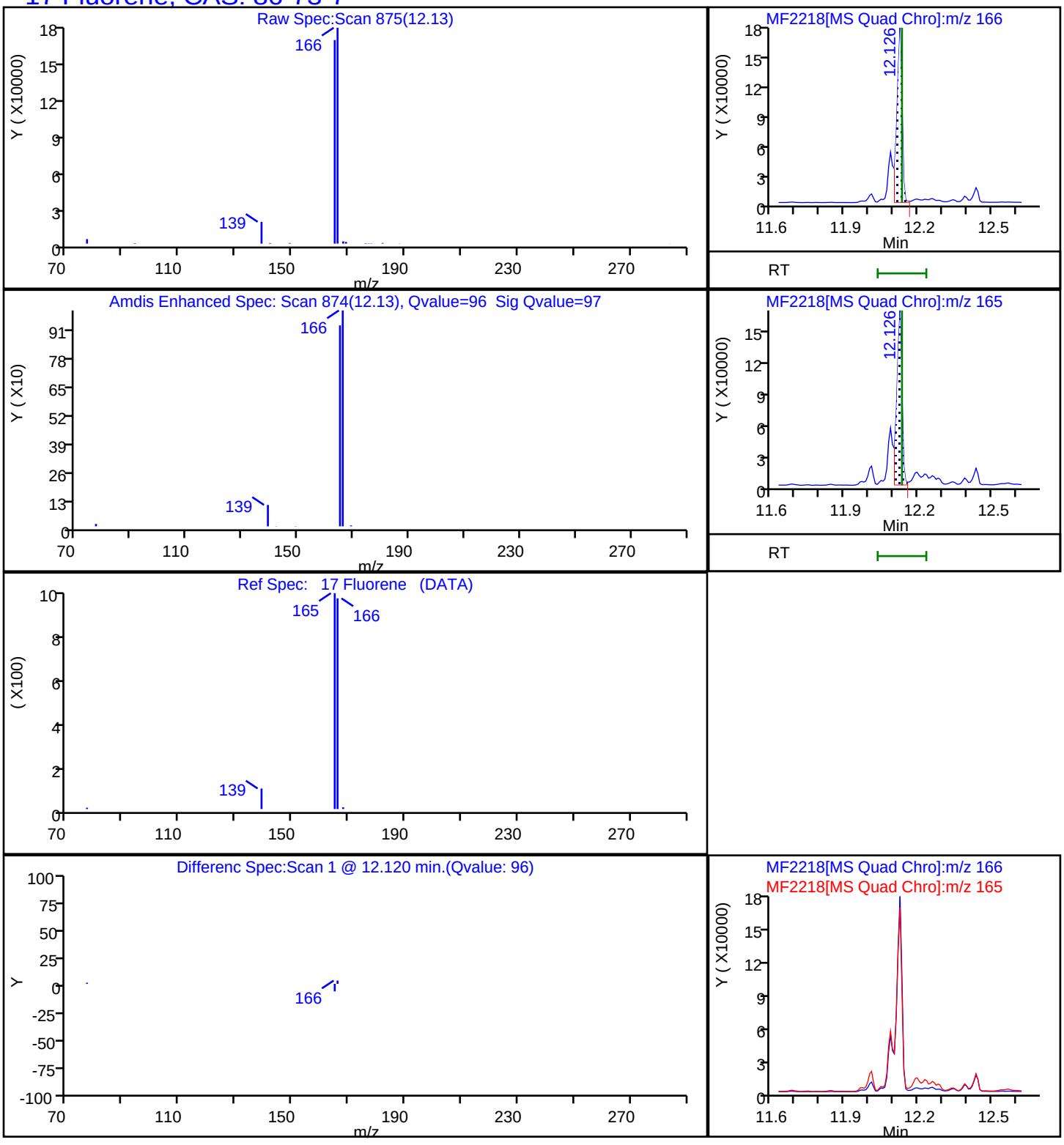




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

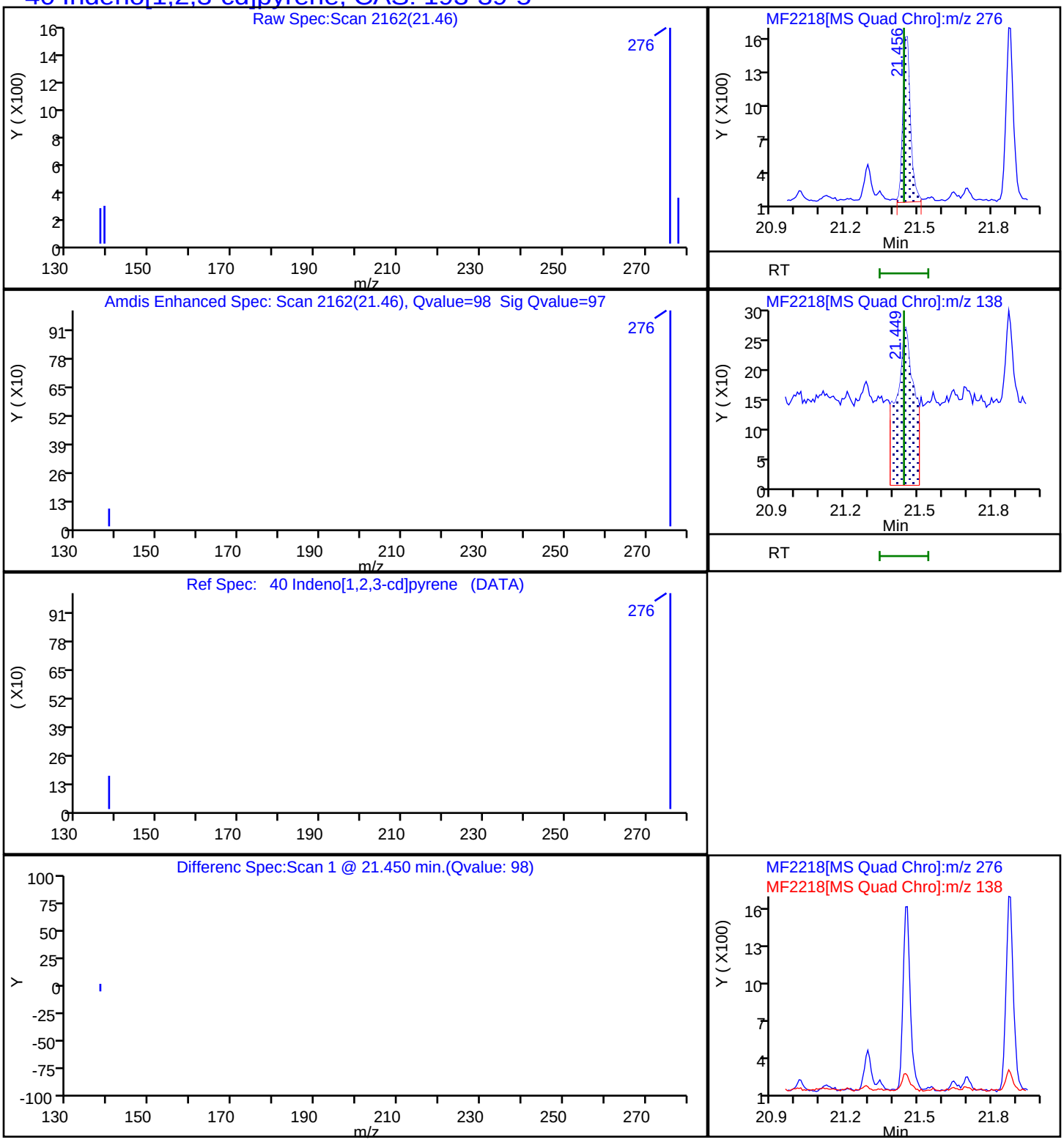


Report Date: 01-Jul-2021 09:47:49 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

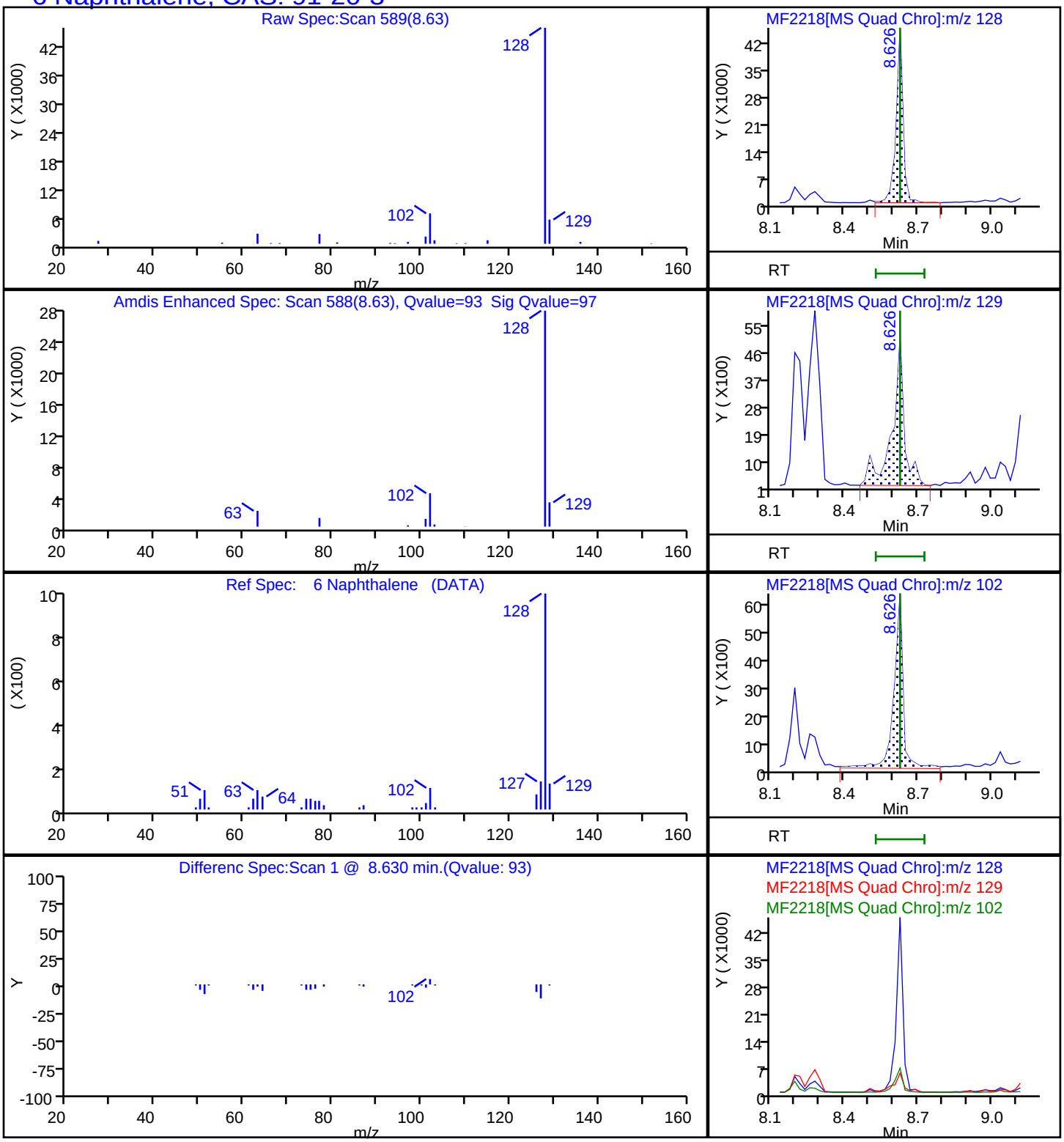
40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

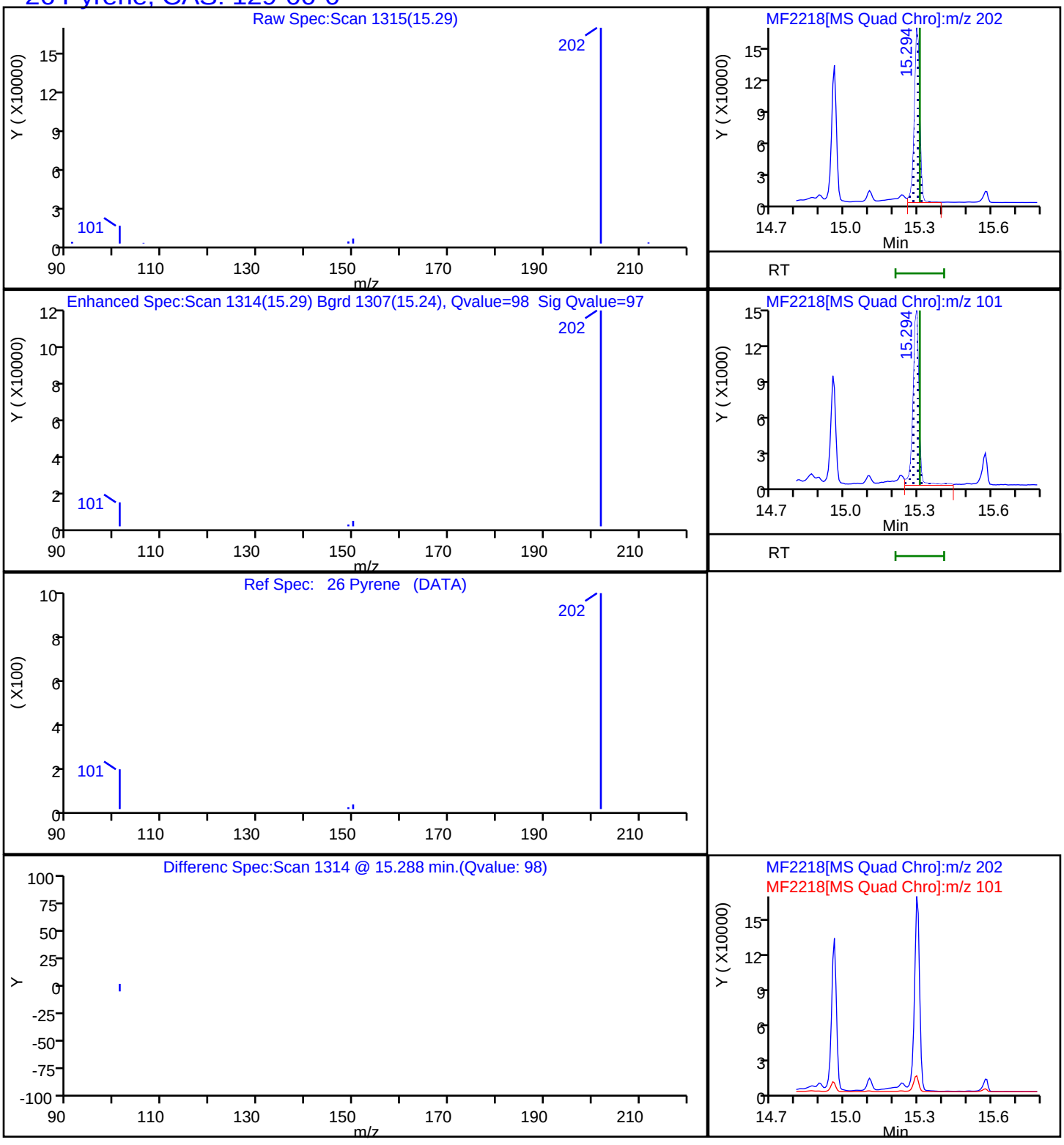


Report Date: 01-Jul-2021 09:47:49 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

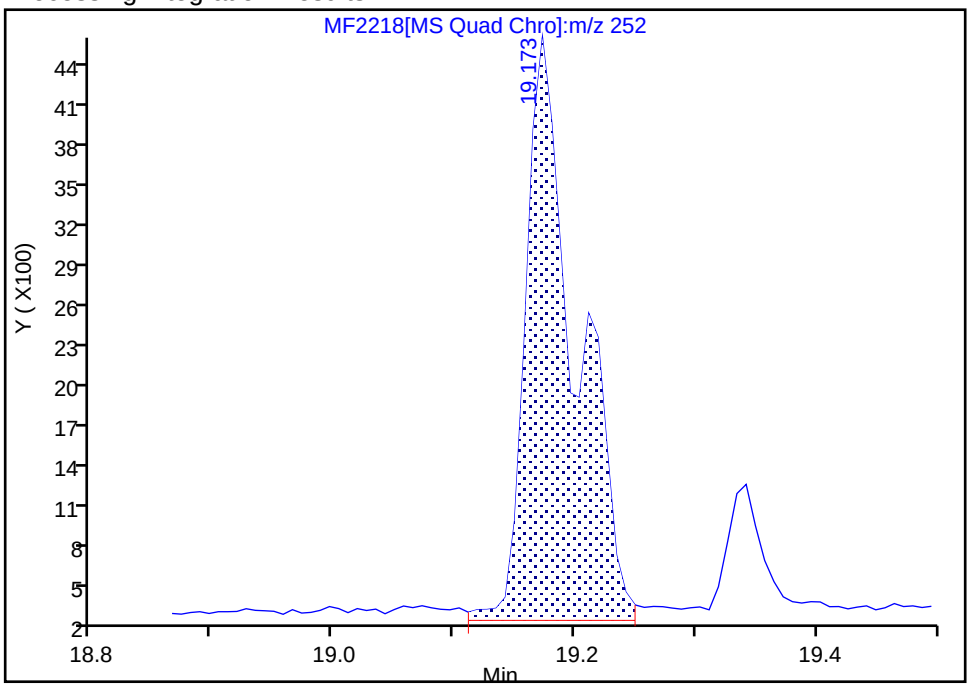
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

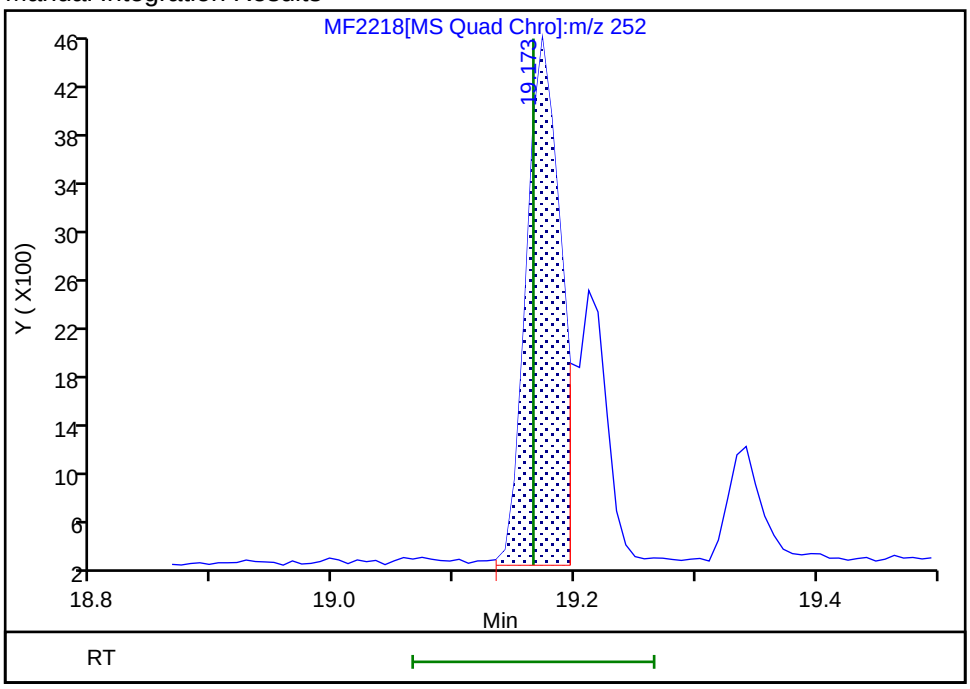
Processing Integration Results

RT: 19.17
Area: 12505
Amount: 0.052059
Amount Units: ug/ml



Manual Integration Results

RT: 19.17
Area: 8169
Amount: 0.034008
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:43:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

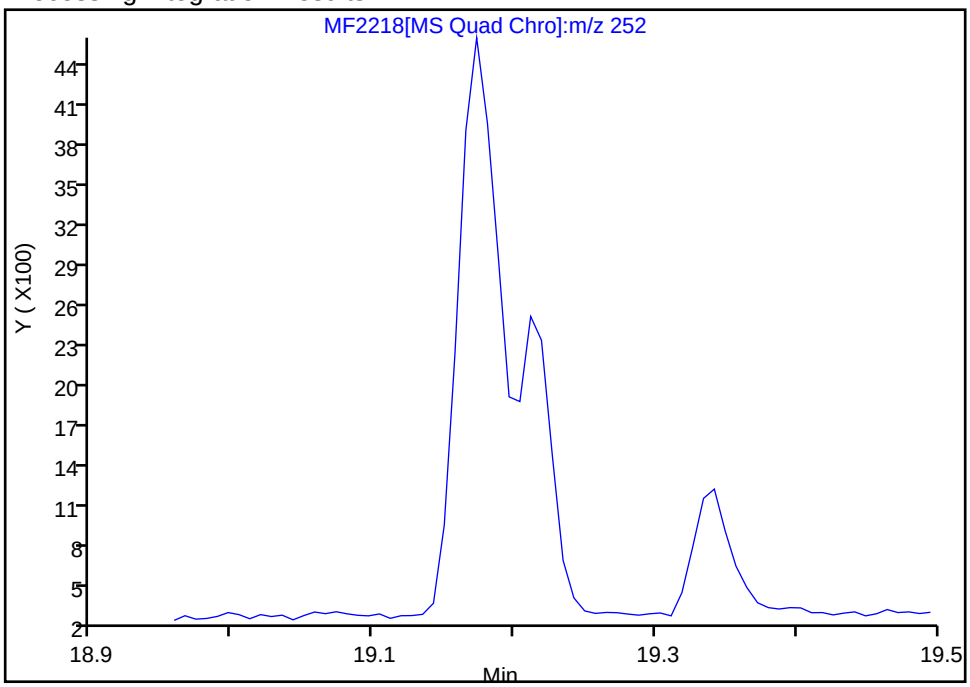
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

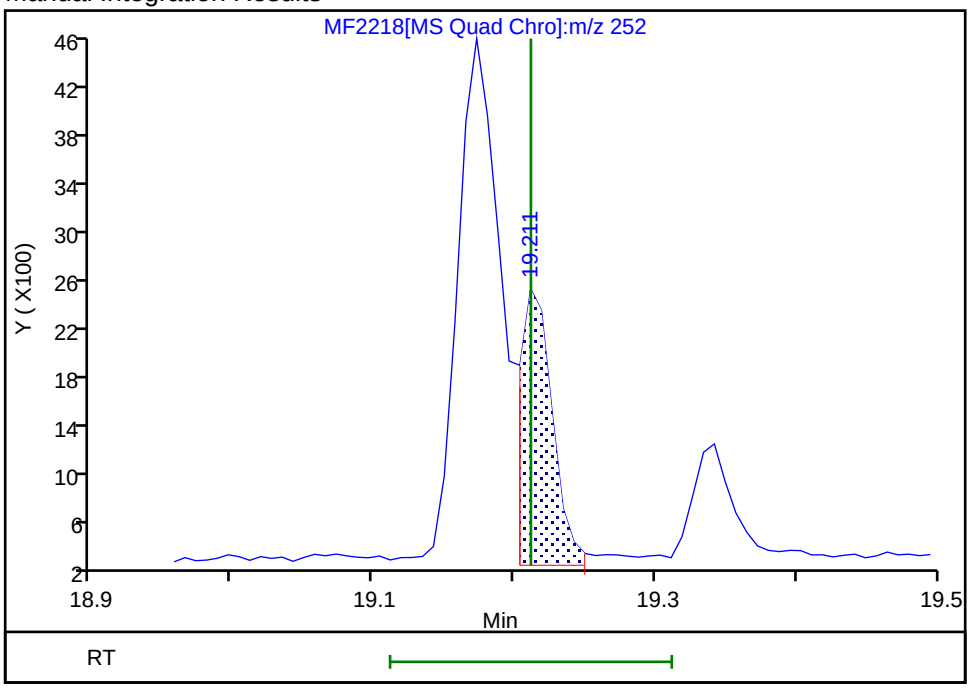
Not Detected
Expected RT: 19.21

Processing Integration Results



Manual Integration Results

RT: 19.21
Area: 3256
Amount: 0.012501
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:43:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

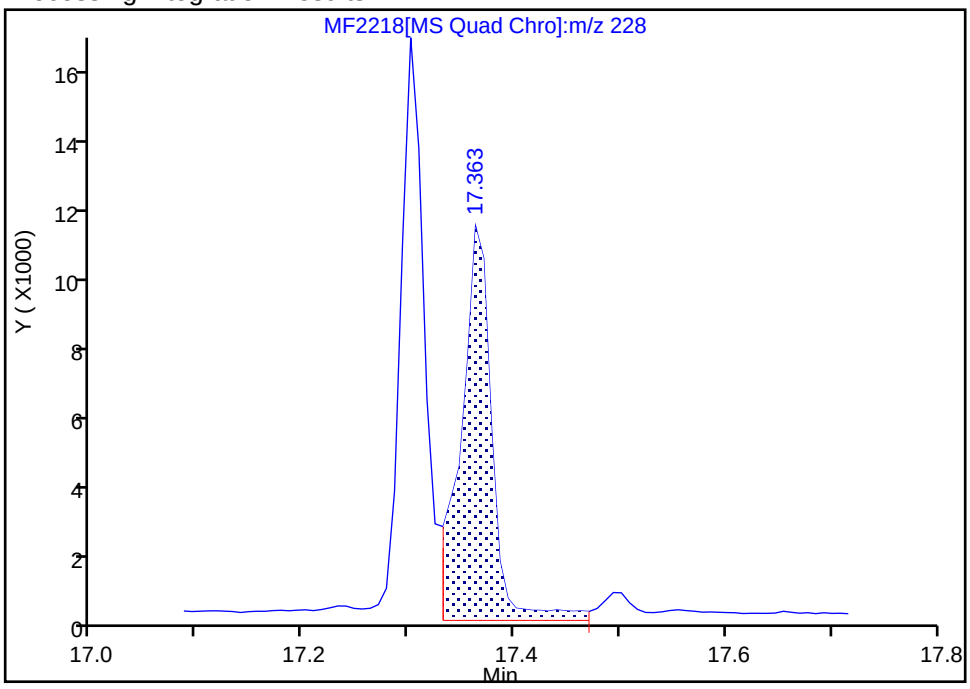
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Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

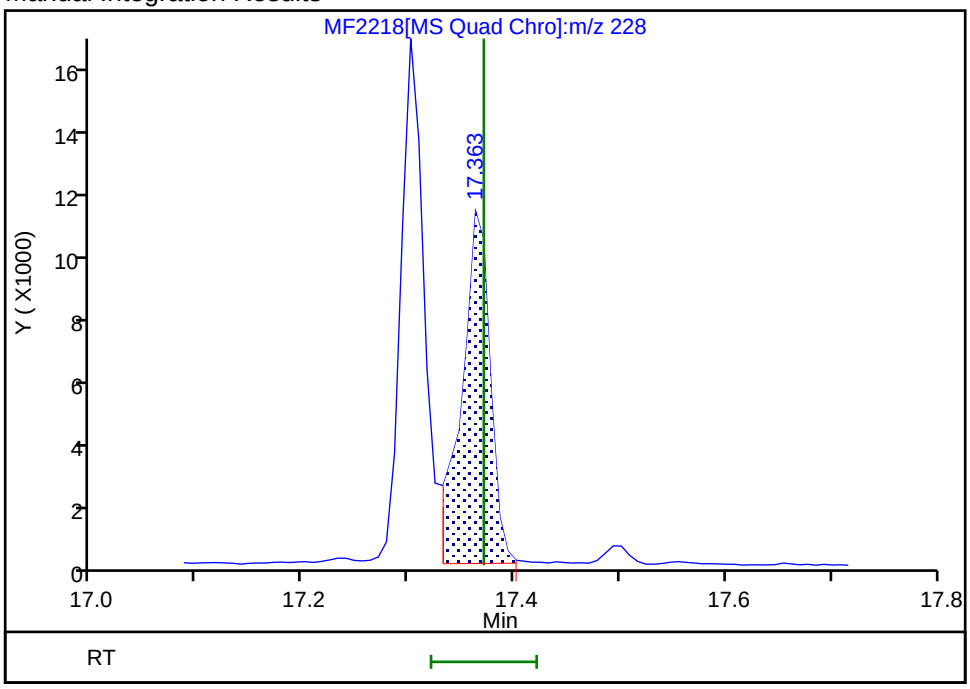
Processing Integration Results

RT: 17.36
Area: 21753
Amount: 0.090448
Amount Units: ug/ml



Manual Integration Results

RT: 17.36
Area: 19625
Amount: 0.081599
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:43:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

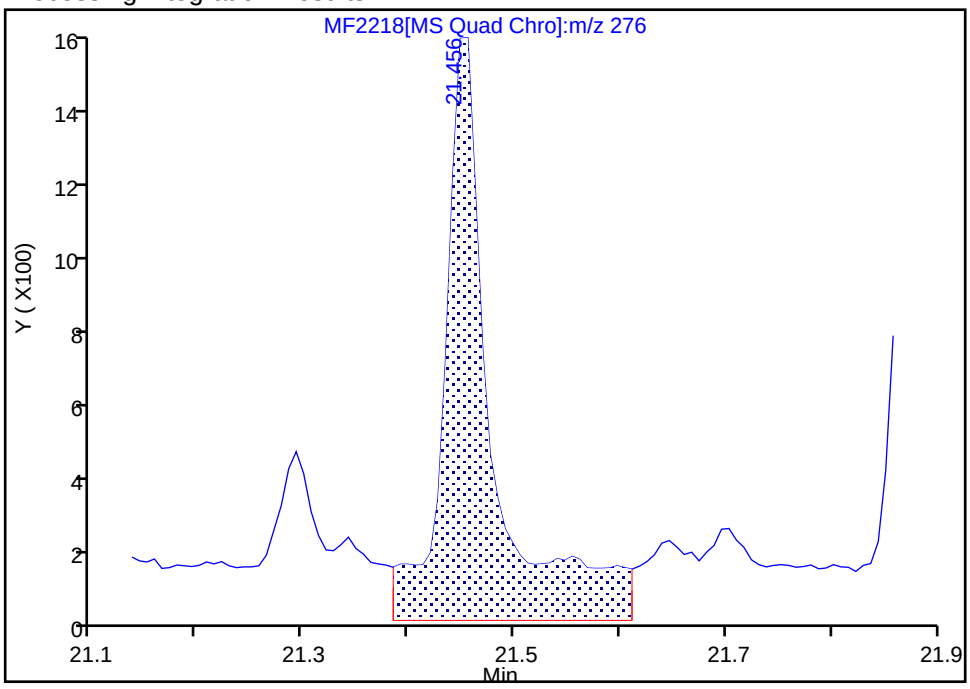
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

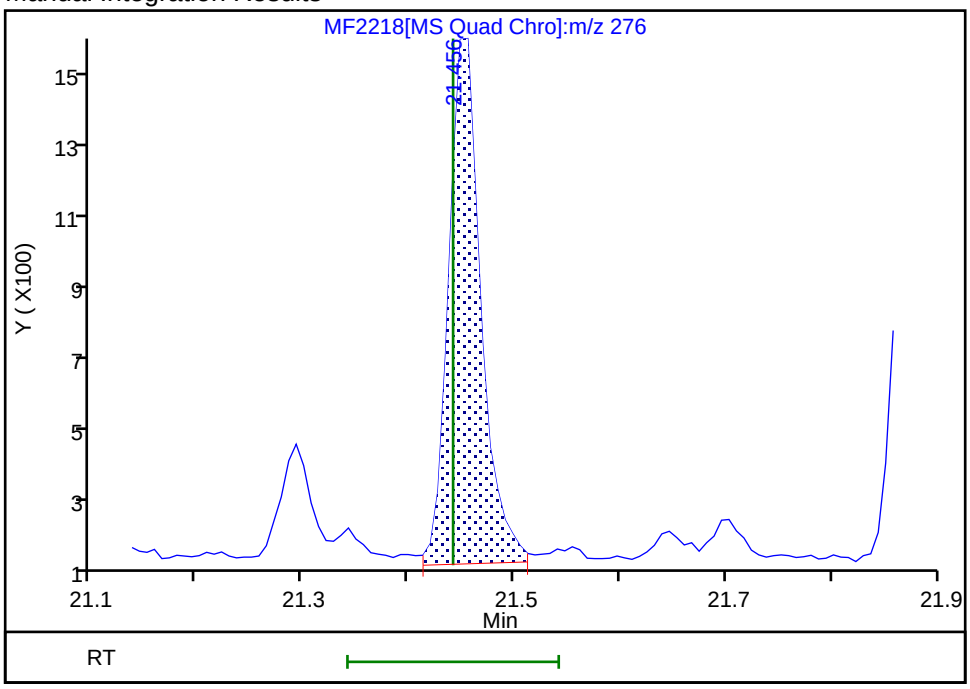
Processing Integration Results

RT: 21.46
Area: 4891
Amount: 0.022446
Amount Units: ug/ml



Manual Integration Results

RT: 21.46
Area: 3018
Amount: 0.013850
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:43:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

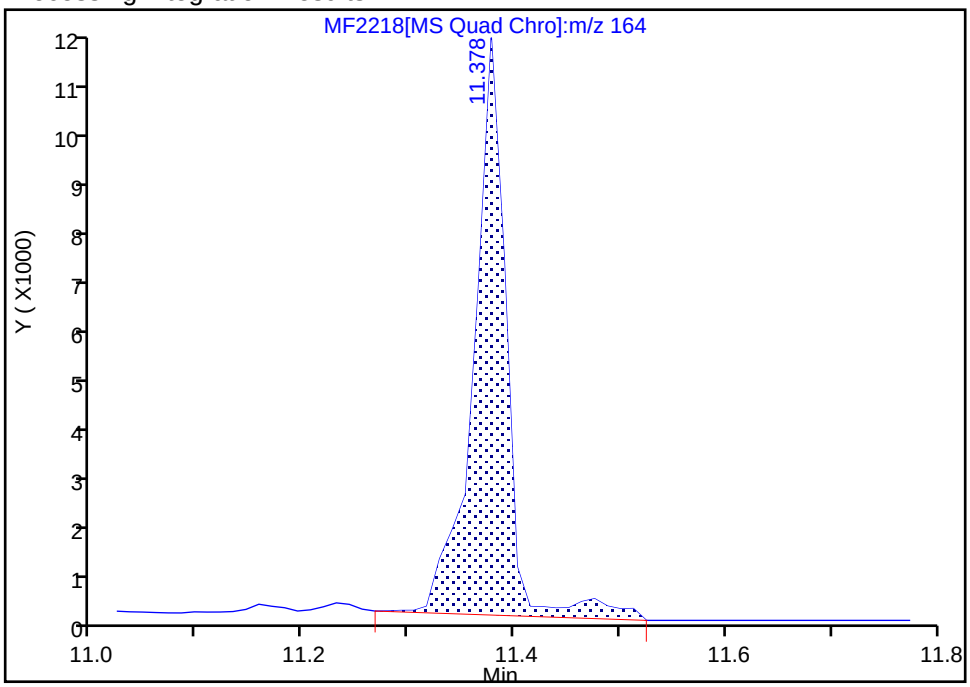
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2218.D				
Injection Date:	01-Jul-2021 06:05:25	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

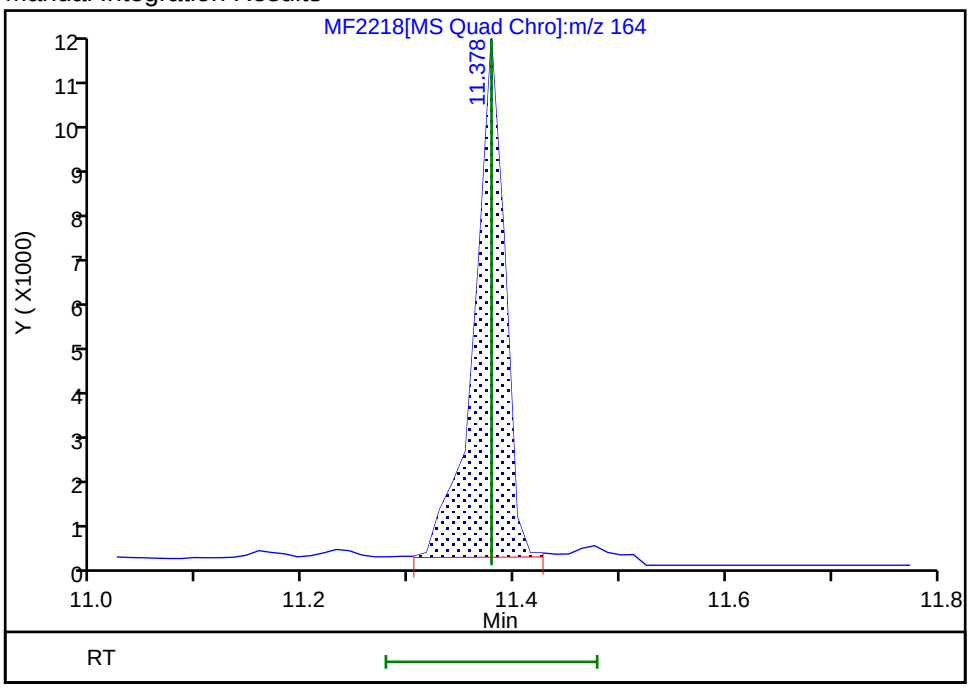
Processing Integration Results

RT: 11.38
Area: 23709
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 11.38
Area: 21896
Amount: 0.250000
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:43:19

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-11S-20210623 DL Lab Sample ID: 410-45105-12 DL

Matrix: Groundwater Lab File ID: MG0013.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 16:33

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 240.6(mL) Date Analyzed: 07/01/2021 22:57

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144441 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	44		0.52	0.10
85-01-8	Phenanthrene	9.6		0.73	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	72		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
93951-69-0	Fluoranthene-d10 (Surr)	83		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0013.D
Lims ID: 410-45105-A-12-A DL
Client ID: MW-11S-20210623
Sample Type: Client
Inject. Date: 01-Jul-2021 22:57:42 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-45105-A-12-A
Misc. Info.: 410-0033409-004
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Jul-2021 10:09:39 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: transuea Date: 02-Jul-2021 09:49:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	92	12746	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	0.000	92	44308	0.2500	
6 Naphthalene	128	8.605	8.605	0.000	93	12163	0.0670	M
$ 9 1-Methylnaphthalene-d10	152	9.813	9.813	0.000	99	2157	0.0187	
12 Acenaphthylene	152	11.146	11.134	0.000	98	3805	0.0188	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	96	29832	0.2500	
14 Acenaphthene	154	11.415	11.415	0.000	92	138613	1.06	
17 Fluorene	166	12.118	12.118	0.000	97	42771	0.2554	
* 20 Phenanthrene-d10	188	13.273	13.273	0.000	97	62066	0.2500	
21 Phenanthrene	178	13.297	13.304	-0.007	100	60809	0.2304	
22 Anthracene	178	13.367	13.375	-0.008	100	17517	0.0719	
$ 24 Fluoranthene-d10 (Surr)	212	14.918	14.918	0.000	96	6020	0.0207	
25 Fluoranthene	202	14.943	14.943	0.000	98	27703	0.0800	M
26 Pyrene	202	15.282	15.288	-0.006	97	38301	0.1136	
28 Benzo[a]anthracene	228	17.287	17.294	0.001	100	3634	0.0103	M
* 29 Chrysene-d12	240	17.310	17.309	0.001	58	68072	0.2500	
30 Chrysene	228	17.356	17.356	0.001	100	3111	0.008358	M
33 Benzo[b]fluoranthene	252	19.173	19.166	0.023	100	1402	0.003709	M
34 Benzo[k]fluoranthene	252	19.204	19.204	0.008	93	650	0.001586	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.649	19.641	0.008	97	5606	0.0181	M
37 Benzo[a]pyrene	252	19.687	19.679	0.008	100	1406	0.003851	M
* 38 Perylene-d12	264	19.771	19.771	0.000	97	81173	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.449	21.442	0.029	98	673	0.001963	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Reagents:

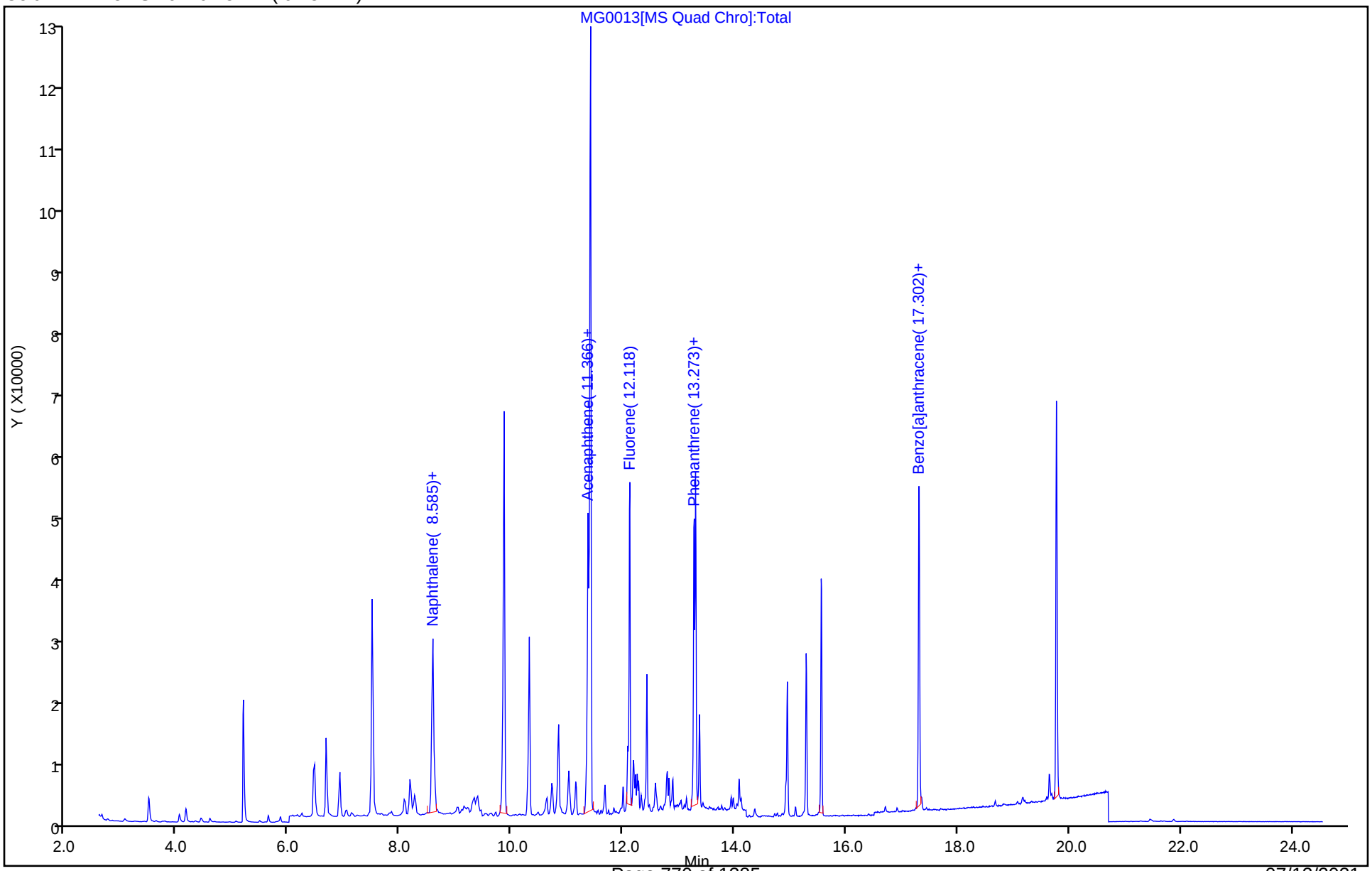
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 02-Jul-2021 10:12:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0013.D				
Injection Date:	01-Jul-2021 22:57:42	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-12-A DL	Lab Sample ID:	410-45105-12	Worklist Smp#:	4
Client ID:	MW-11S-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

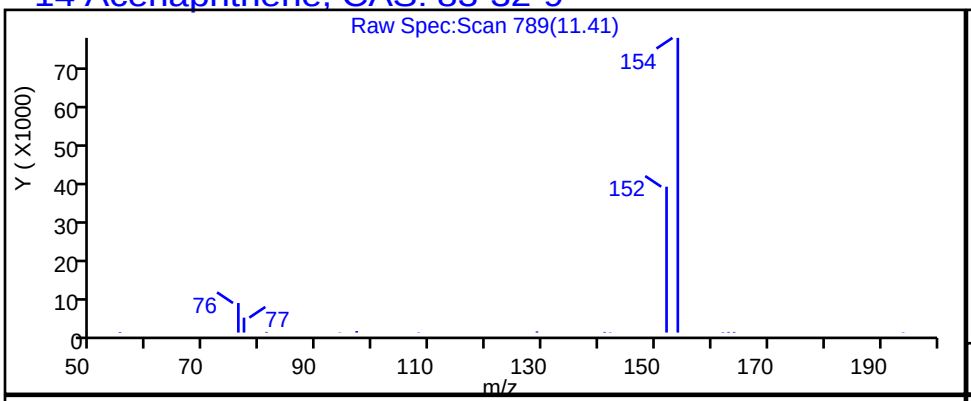
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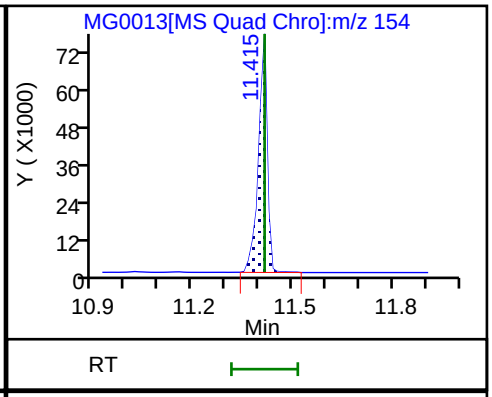


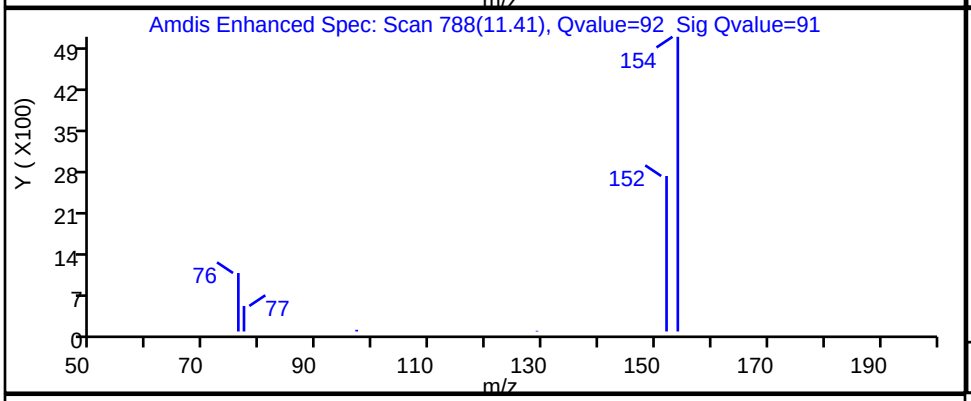
Eurofins Lancaster Laboratories Env, LLC

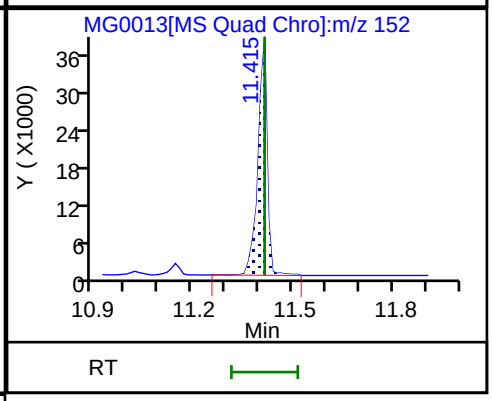
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Lims ID:	410-45105-A-12-A DL	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

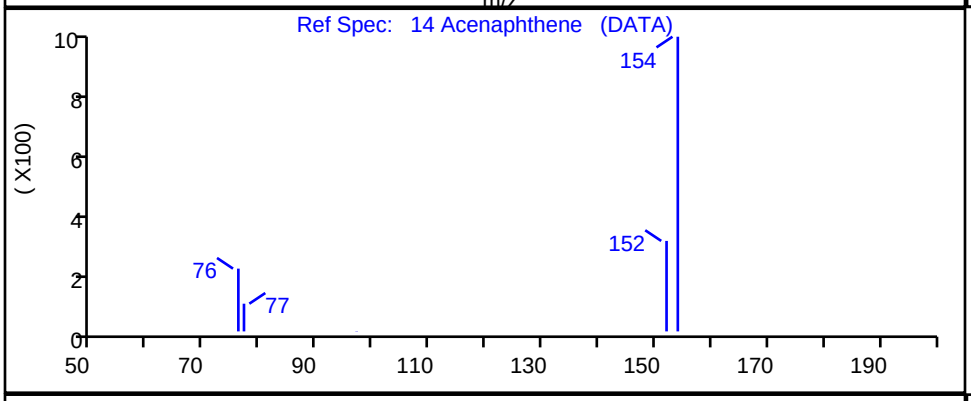
14 Acenaphthene, CAS: 83-32-9

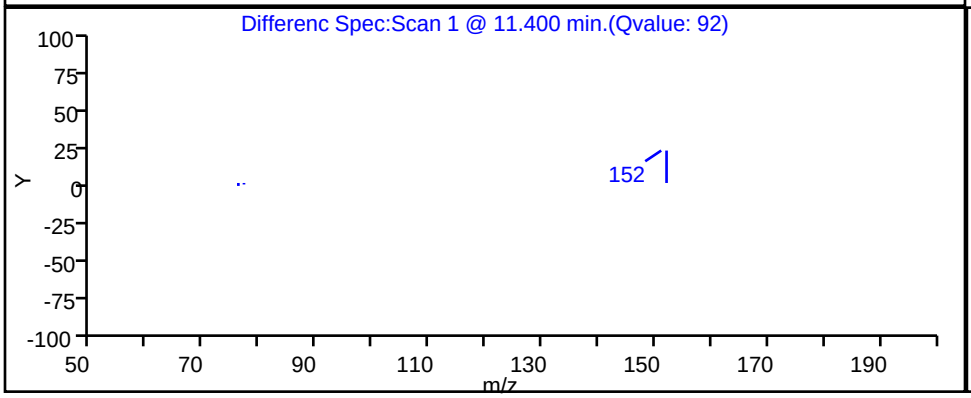


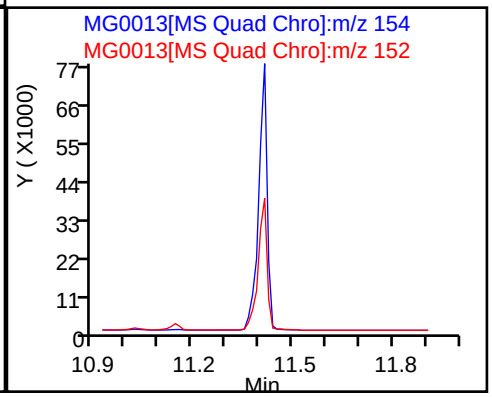








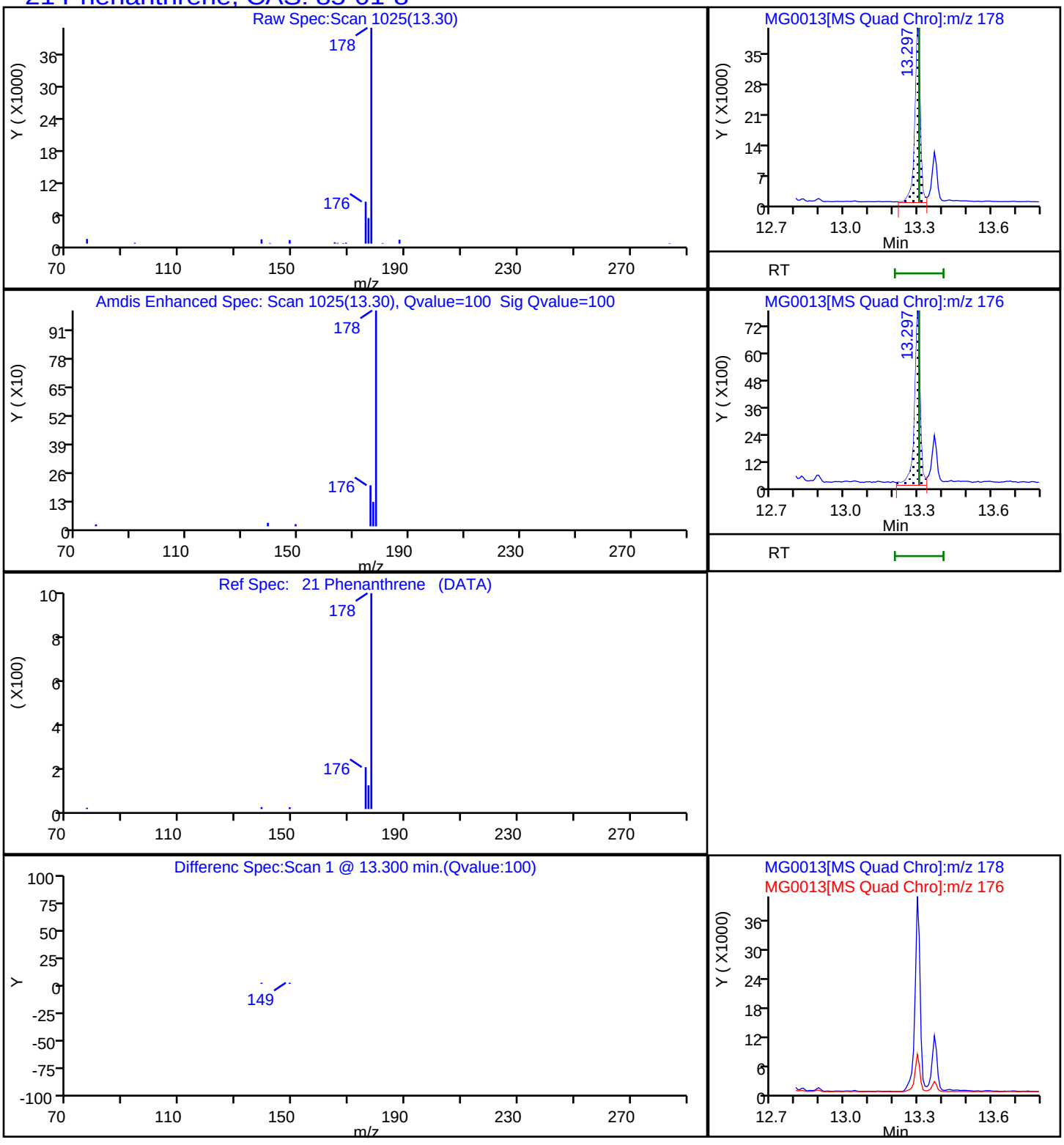




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0013.D				
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Lims ID:	410-45105-A-12-A DL	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8



Eurofins Lancaster Laboratories Env, LLC

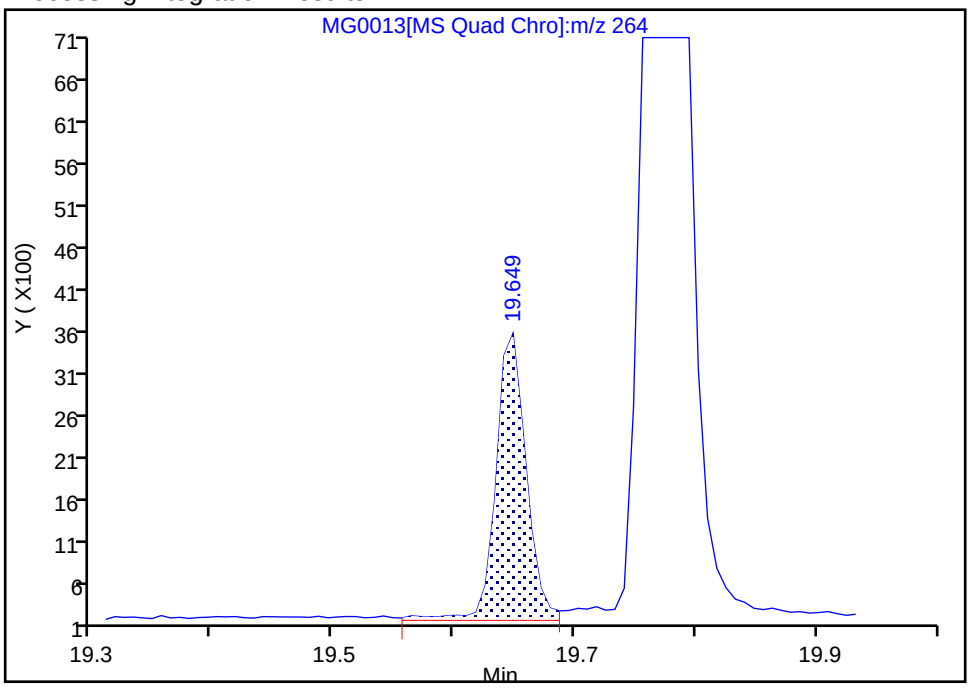
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Injection Date:	01-Jul-2021 22:57:42	Instrument ID:	HP21585		
Lims ID:	410-45105-A-12-A DL	Lab Sample ID:	410-45105-12		
Client ID:	MW-11S-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

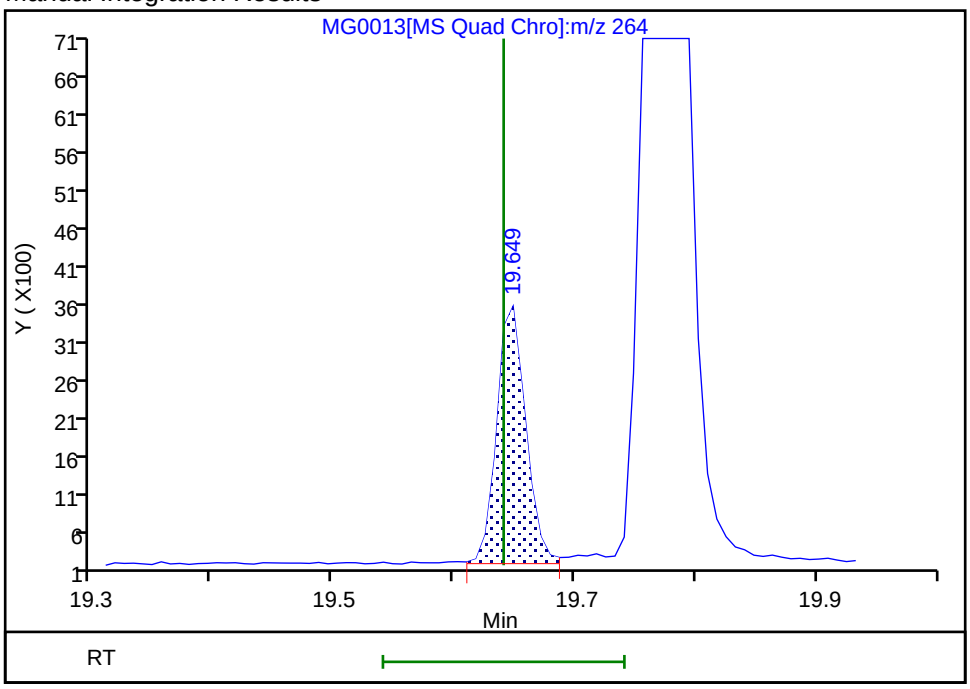
Processing Integration Results

RT: 19.65
Area: 5916
Amount: 0.019060
Amount Units: ug/ml



Manual Integration Results

RT: 19.65
Area: 5606
Amount: 0.018062
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 09:45:06
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-11D-20210623 Lab Sample ID: 410-45105-13

Matrix: Groundwater Lab File ID: MF2219.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 17:19

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 246.6(mL) Date Analyzed: 07/01/2021 06:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	0.015	J	0.051	0.010
50-32-8	Benzo[a]pyrene	0.016	J	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.024	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	0.017	J	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	0.030	J	0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	ND		0.071	0.030
85-01-8	Phenanthrene	0.044	J	0.071	0.030
129-00-0	Pyrene	0.031	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	71		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		36-111
93951-69-0	Fluoranthene-d10 (Surr)	88		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D
Lims ID: 410-45105-A-13-A
Client ID: MW-11D-20210623
Sample Type: Client
Inject. Date: 01-Jul-2021 06:36:01 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-13-A
Misc. Info.: 410-0033298-020
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 09:45:43 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 09:45:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.689	6.689	0.000	88	8941	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	91	30716	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	14521	0.1818	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	97	21712	0.2500	
14 Acenaphthene	154	11.427	11.427	0.000	36	218	0.002295	7M
* 20 Phenanthrene-d10	188	13.281	13.289	-0.008	96	39284	0.2500	
21 Phenanthrene	178	13.312	13.312	0.000	100	1821	0.0109	
22 Anthracene	178	13.383	13.383	0.000	98	217	0.001407	7M
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	96	40364	0.2196	
25 Fluoranthene	202	14.956	14.956	-0.006	97	1603	0.007309	M
26 Pyrene	202	15.301	15.313	-0.006	96	1729	0.007551	
28 Benzo[a]anthracene	228	17.310	17.310	0.000	100	858	0.003577	M
* 29 Chrysene-d12	240	17.325	17.325	0.000	56	46246	0.2500	
30 Chrysene	228	17.371	17.371	0.000	99	1048	0.004145	M
33 Benzo[b]fluoranthene	252	19.181	19.181	0.015	100	1396	0.006024	M
34 Benzo[k]fluoranthene	252	19.227	19.227	0.015	89	534	0.002125	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.664	19.664	0.008	98	33825	0.1777	
37 Benzo[a]pyrene	252	19.702	19.702	0.007	100	883	0.003945	M
* 38 Perylene-d12	264	19.794	19.787	0.007	98	49772	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.477	21.477	0.035	97	464	0.002207	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

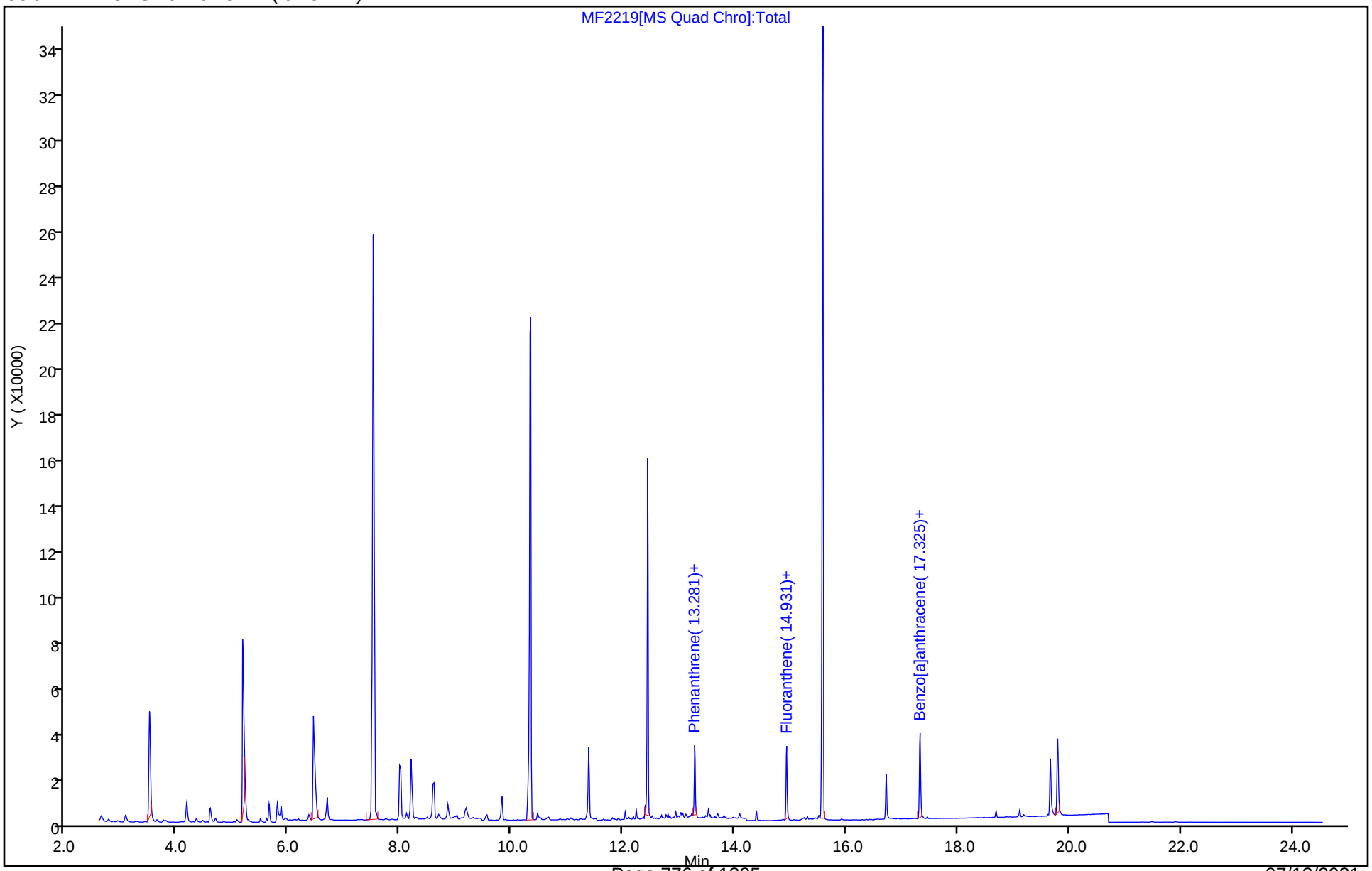
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 01-Jul-2021 09:47:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13	Worklist Smp#:	20
Client ID:	MW-11D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

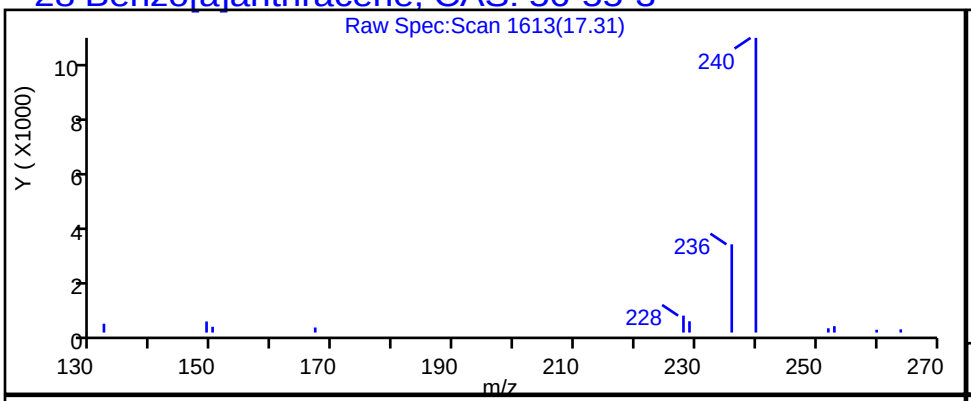
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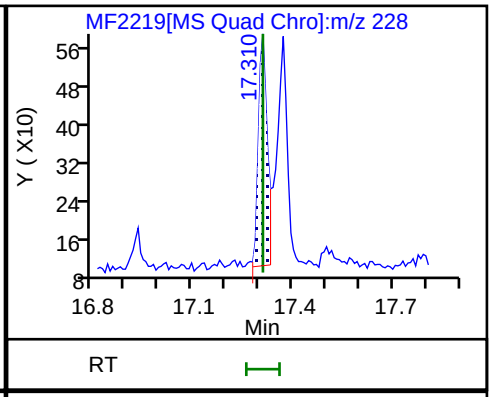


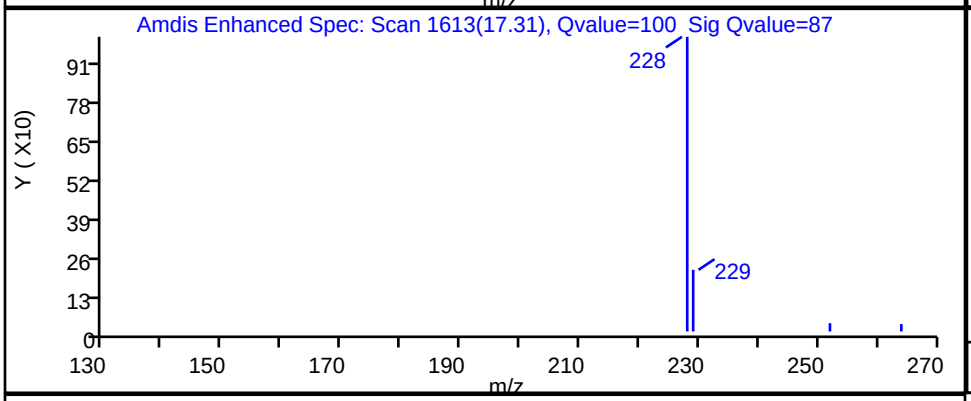
Eurofins Lancaster Laboratories Environment Testing, LLC

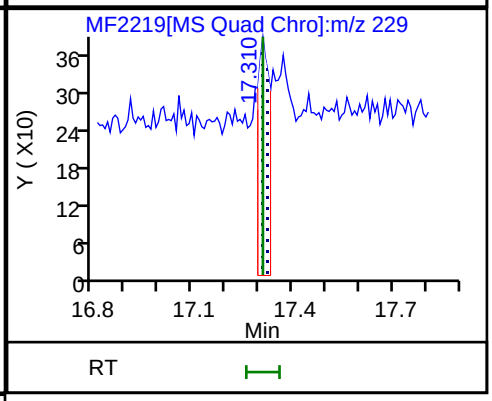
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

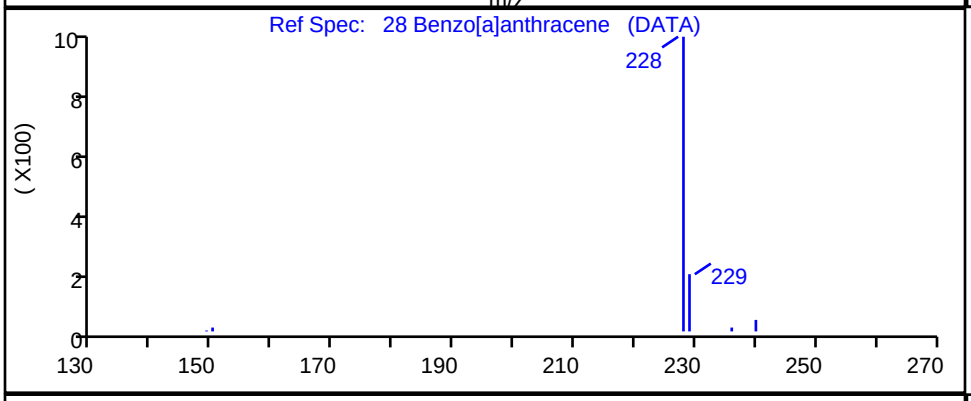
28 Benzo[a]anthracene, CAS: 56-55-3

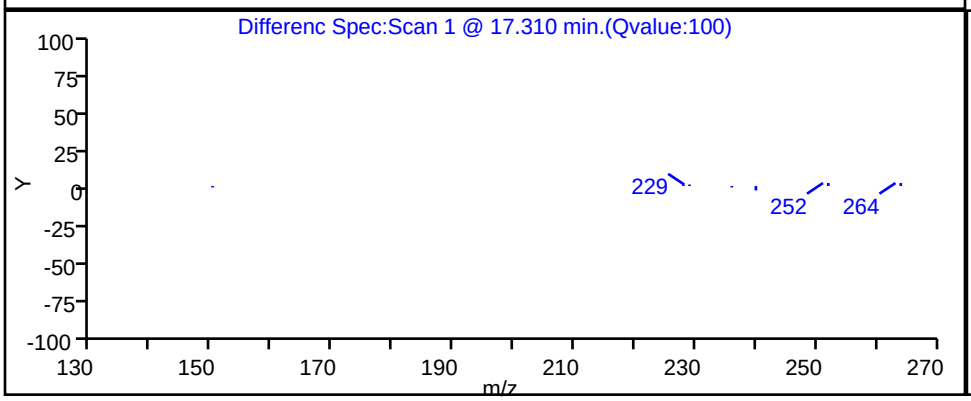


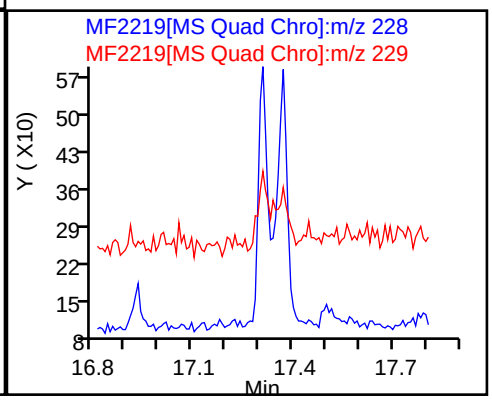








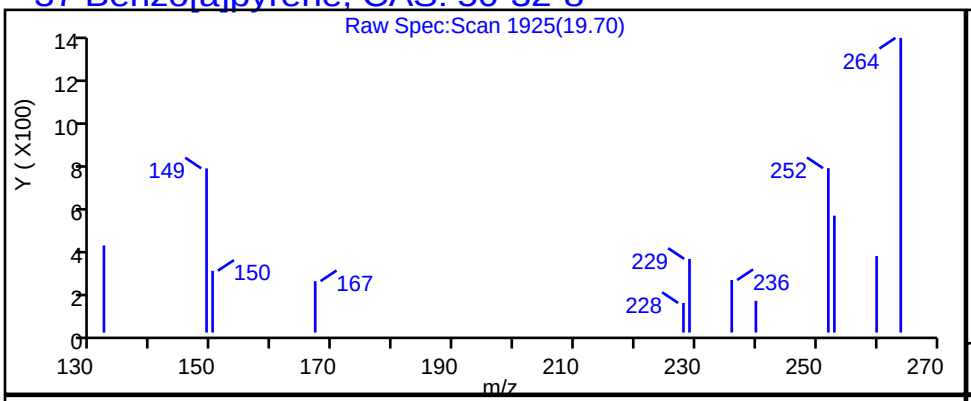


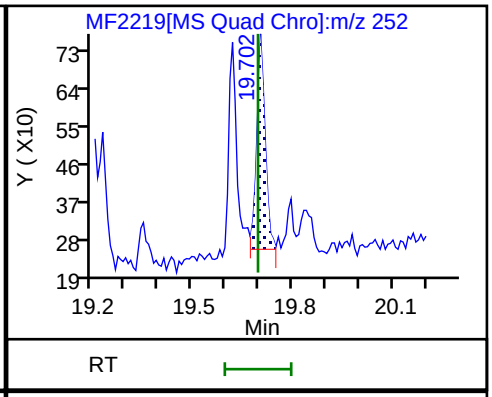


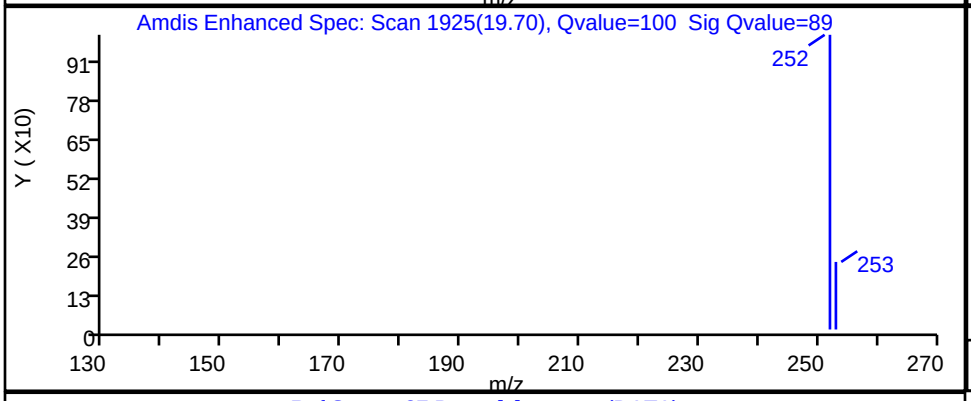
Eurofins Lancaster Laboratories Environment Testing, LLC

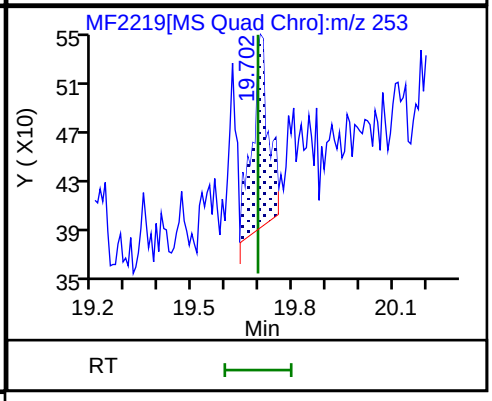
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13
Client ID:	MW-11D-20210623		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

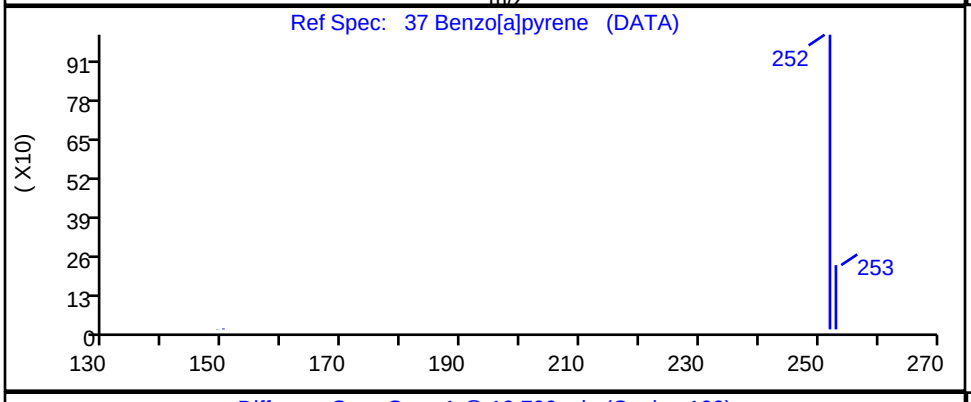
37 Benzo[a]pyrene, CAS: 50-32-8

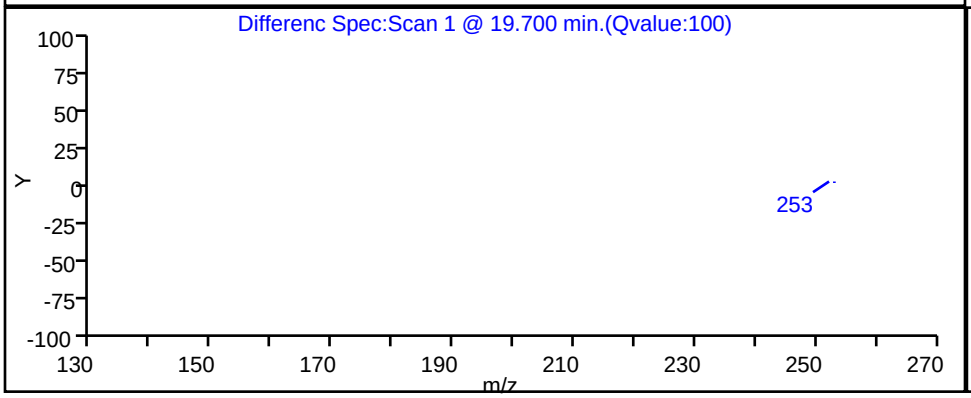


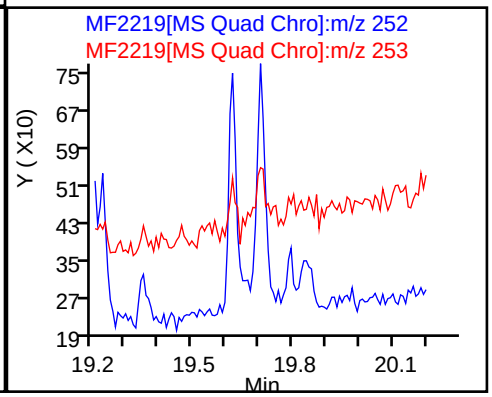










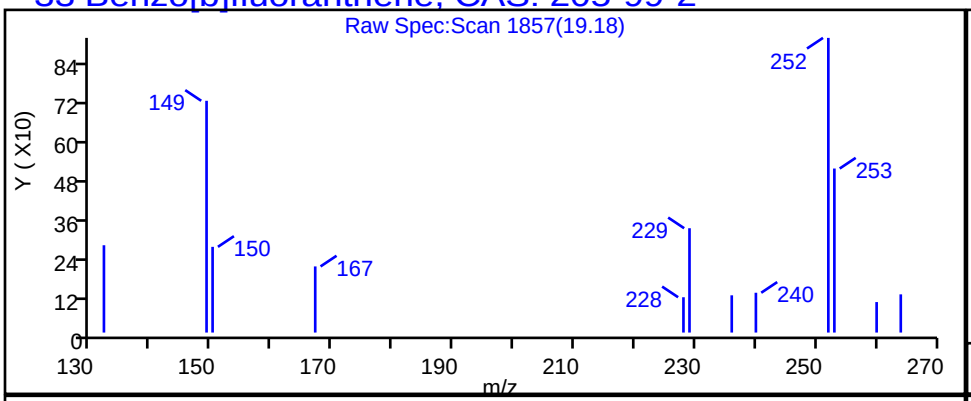


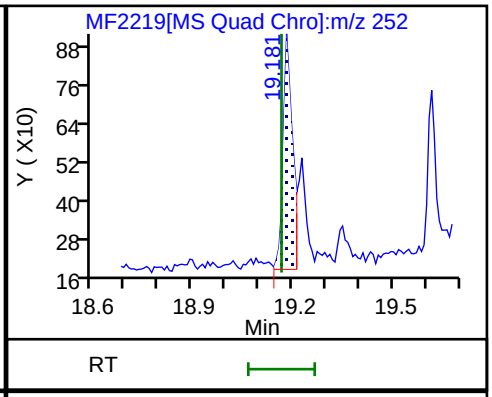
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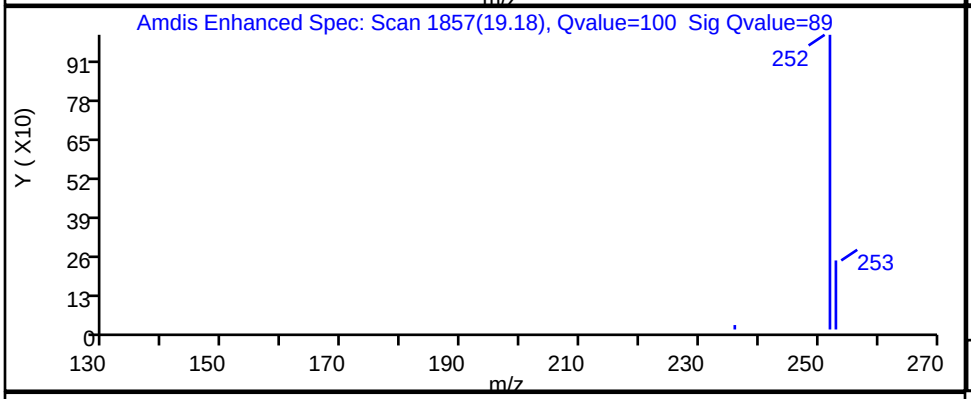
Eurofins Lancaster Laboratories Environment Testing, LLC

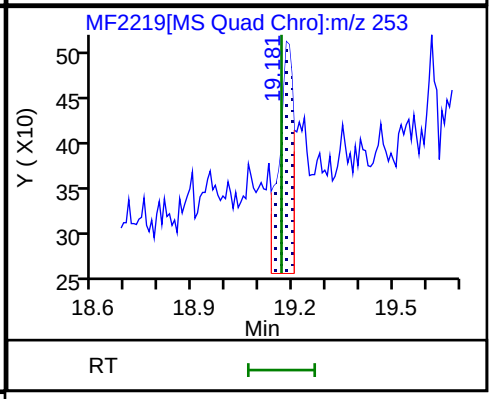
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

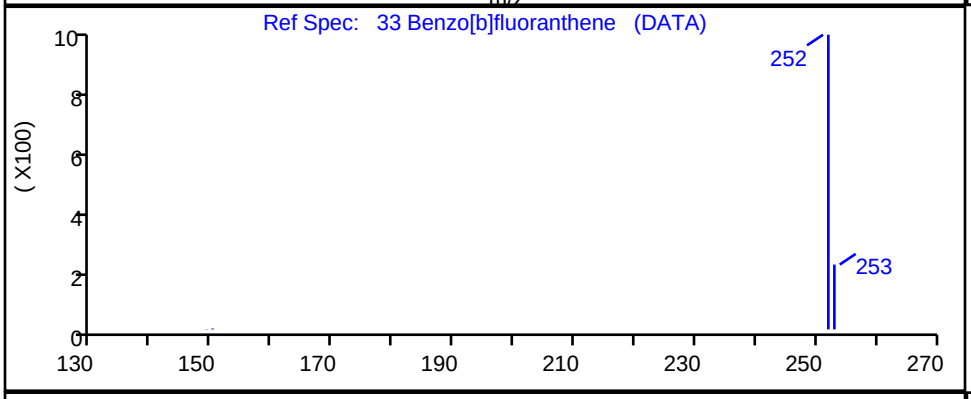
33 Benzo[b]fluoranthene, CAS: 205-99-2

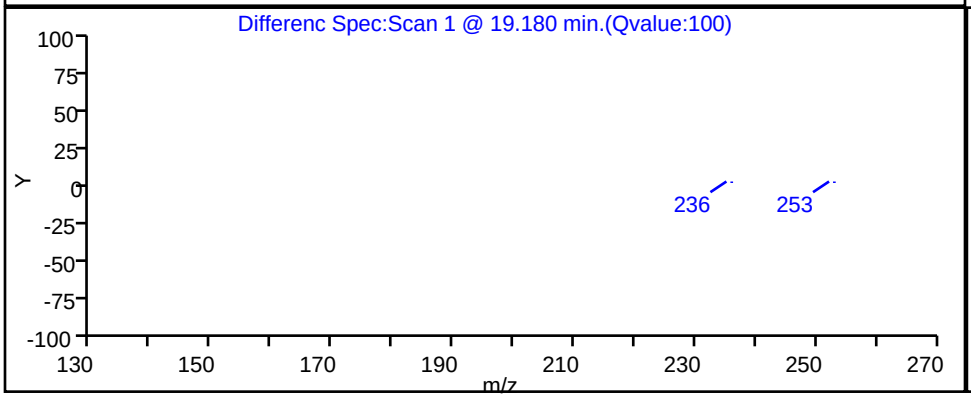


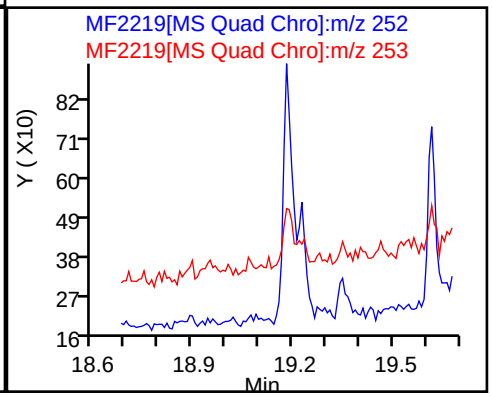










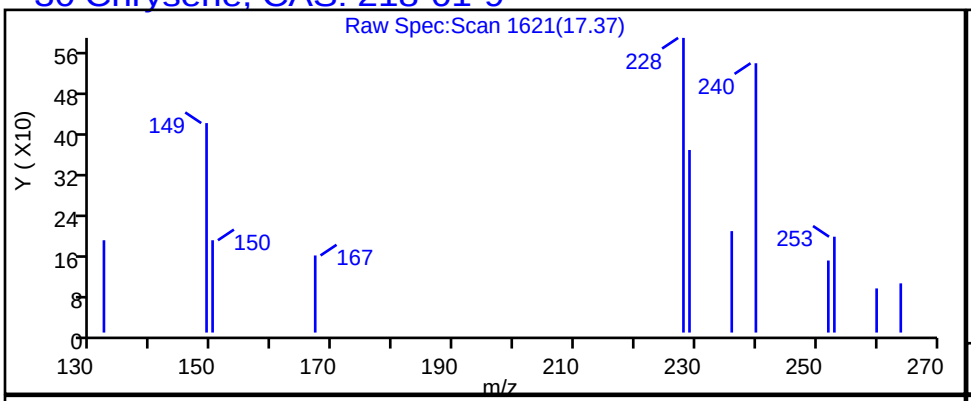


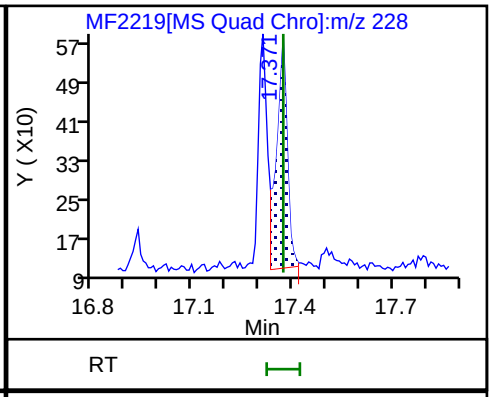
Report Date: 01-Jul-2021 09:47:51 Chrom Revision: 2.3 13-May-2021 07:57:40

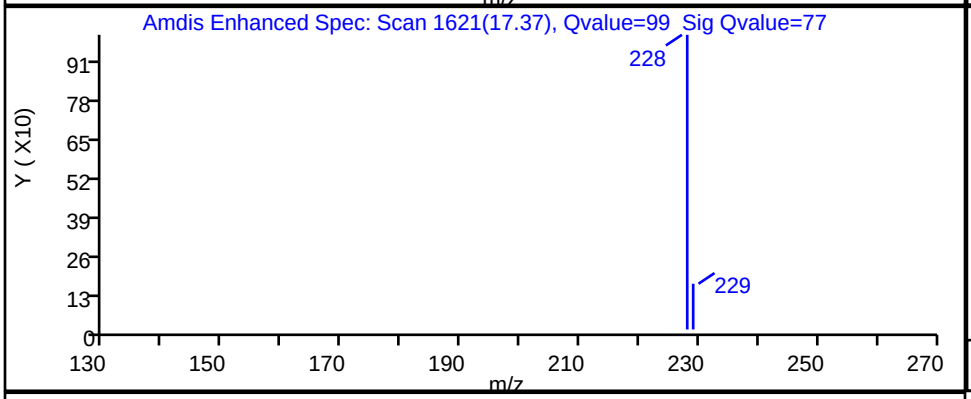
Eurofins Lancaster Laboratories Environment Testing, LLC

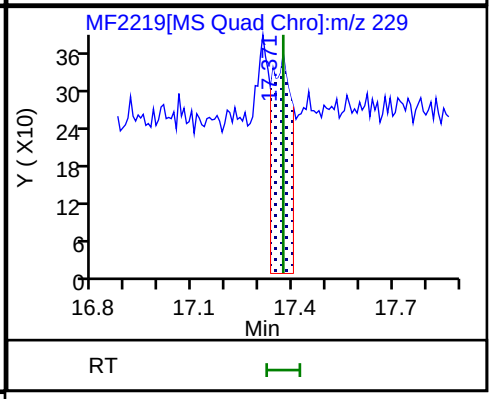
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

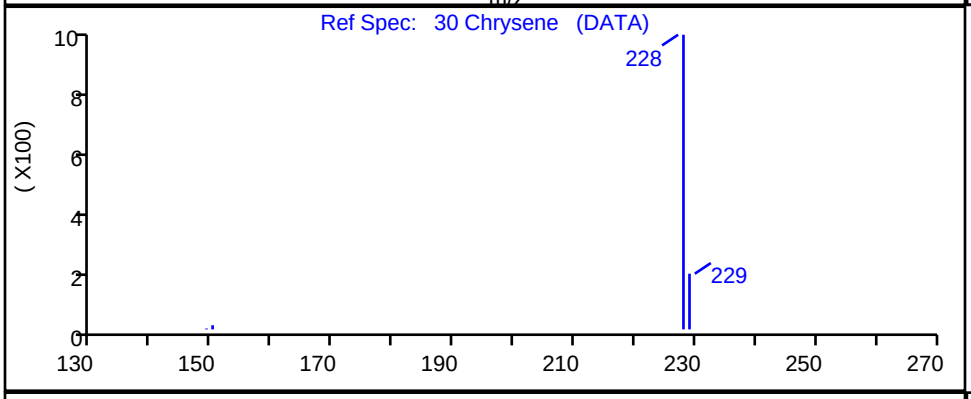
30 Chrysene, CAS: 218-01-9

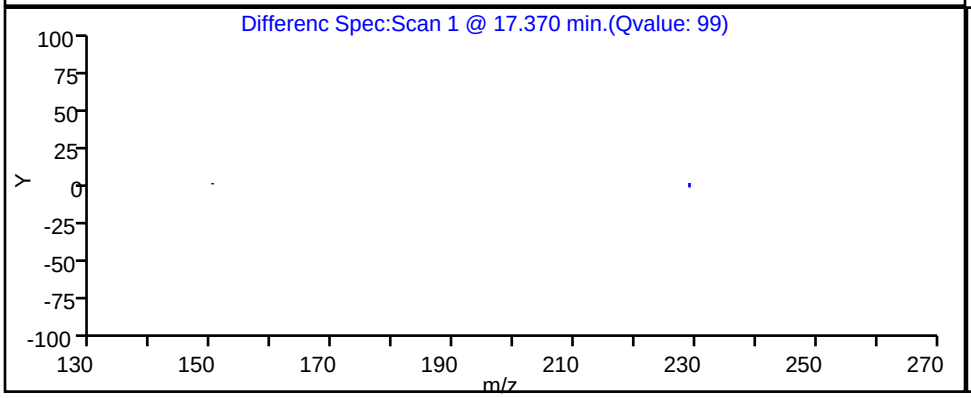


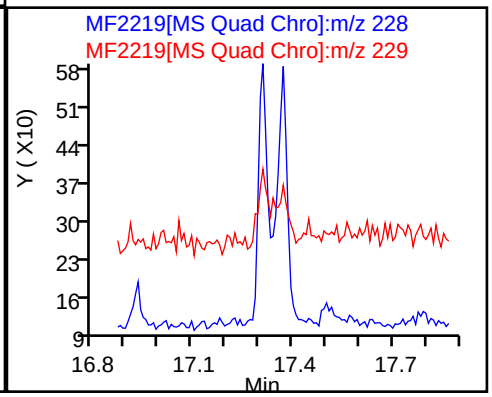












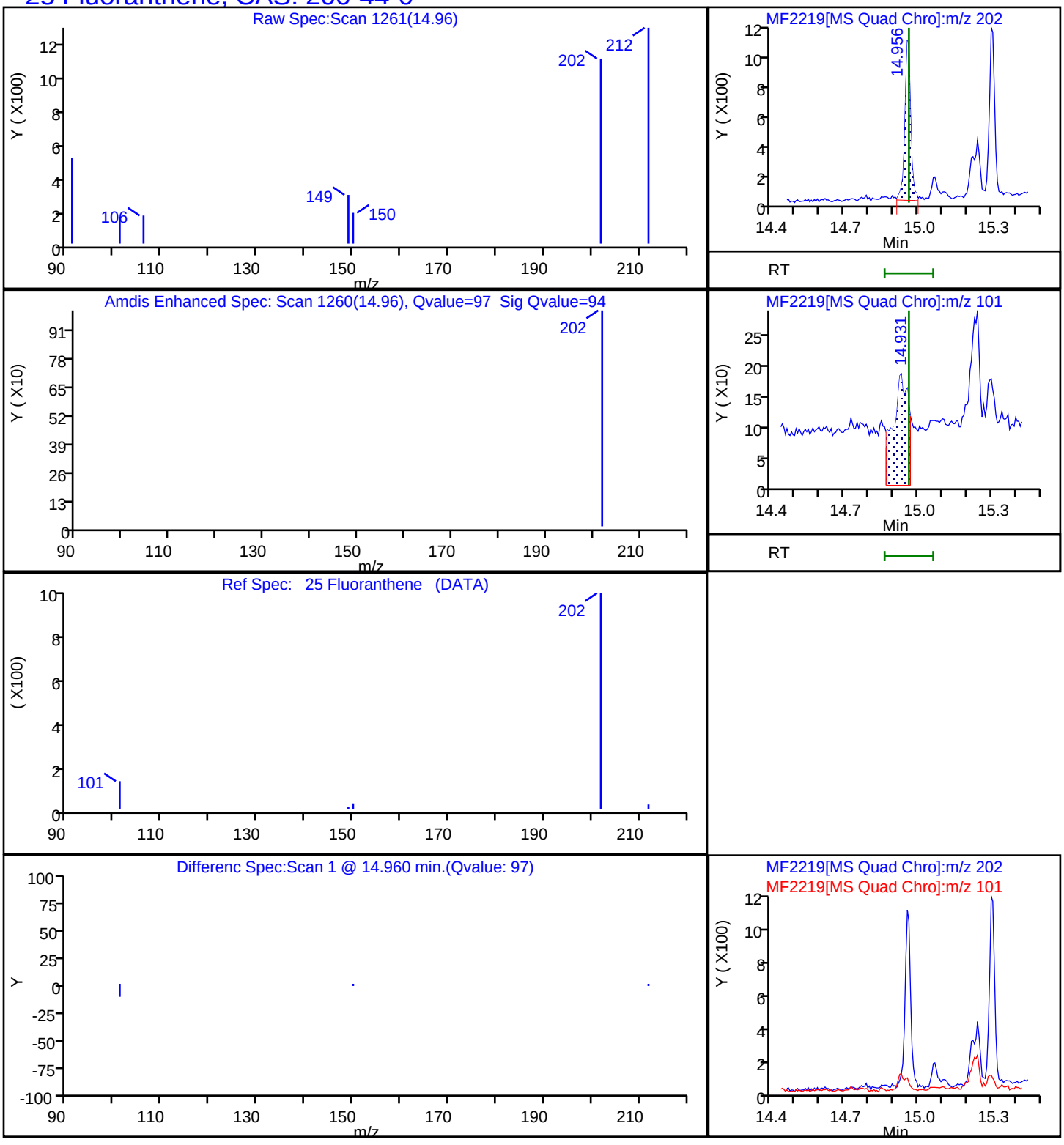
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D

Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0



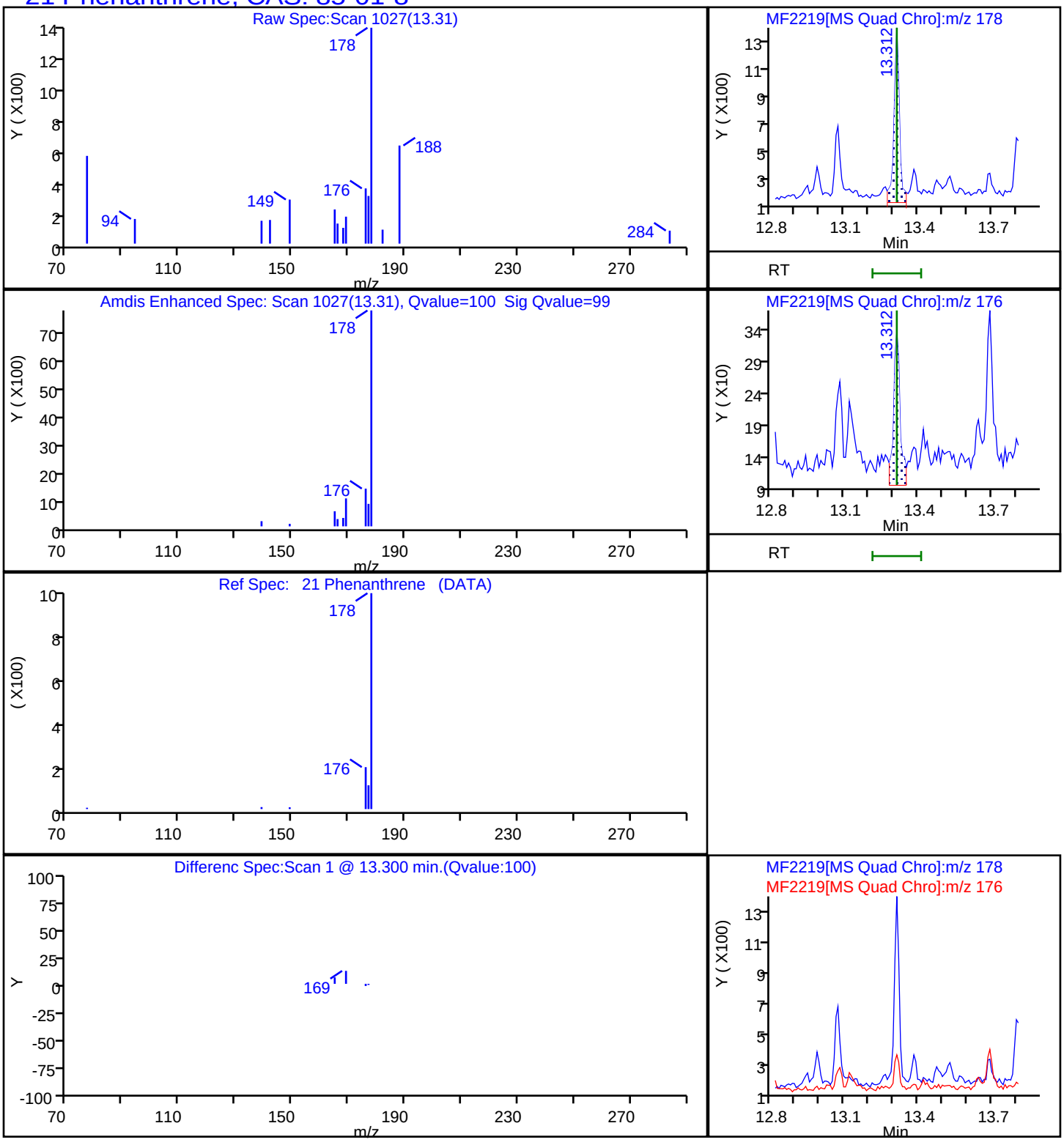
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D

Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8



Report Date: 01-Jul-2021 09:47:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D

Injection Date: 01-Jul-2021 06:36:01 Instrument ID: HP21585

Lims ID: 410-45105-A-13-A Lab Sample ID: 410-45105-13

Client ID: MW-11D-20210623

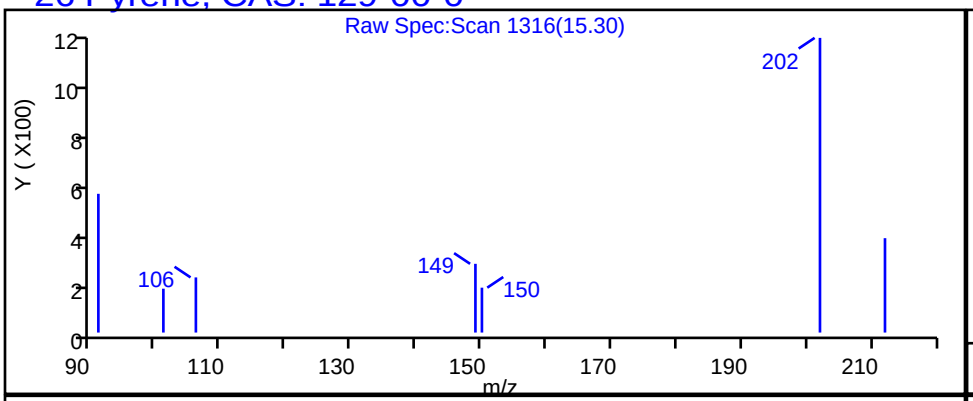
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 20

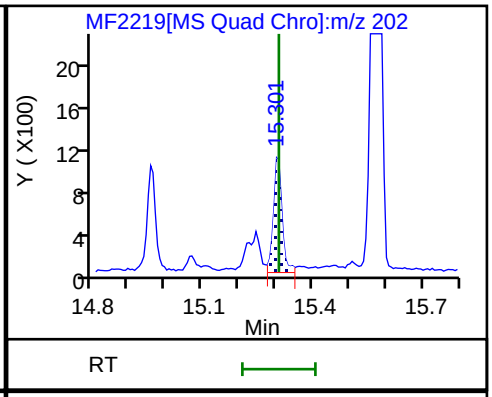
Injection Vol: 1.0 ul Dil. Factor: 1.0000

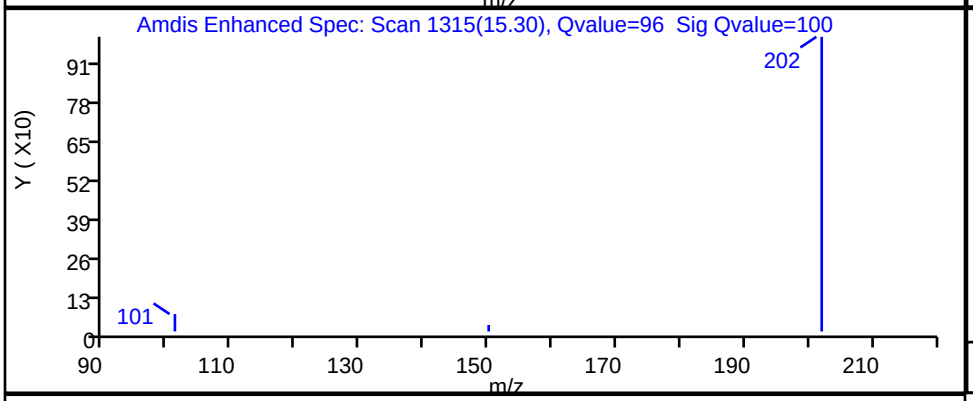
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

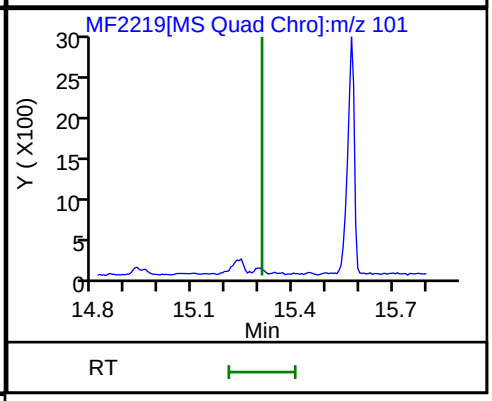
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

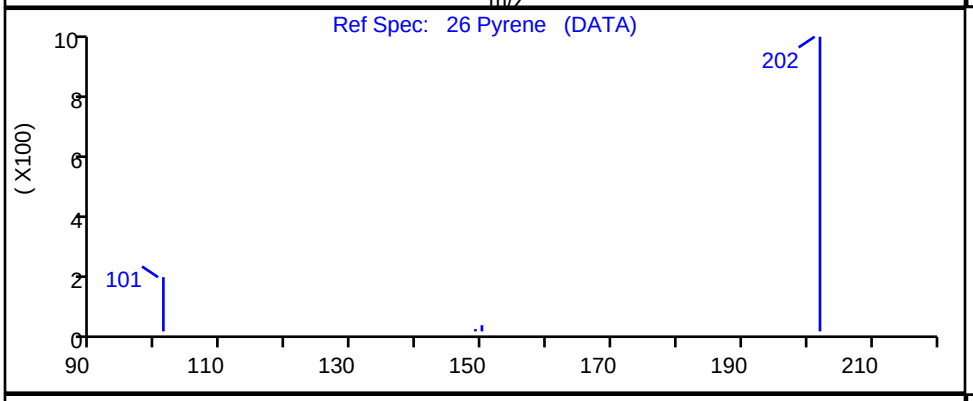
26 Pyrene, CAS: 129-00-0

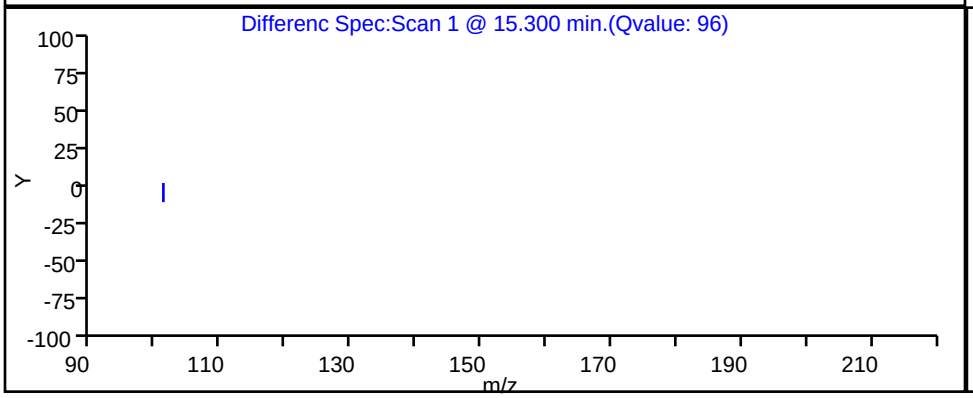


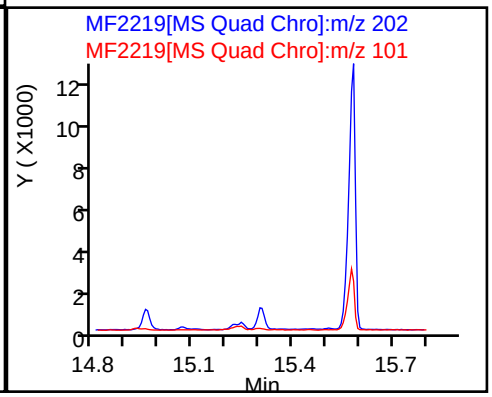












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

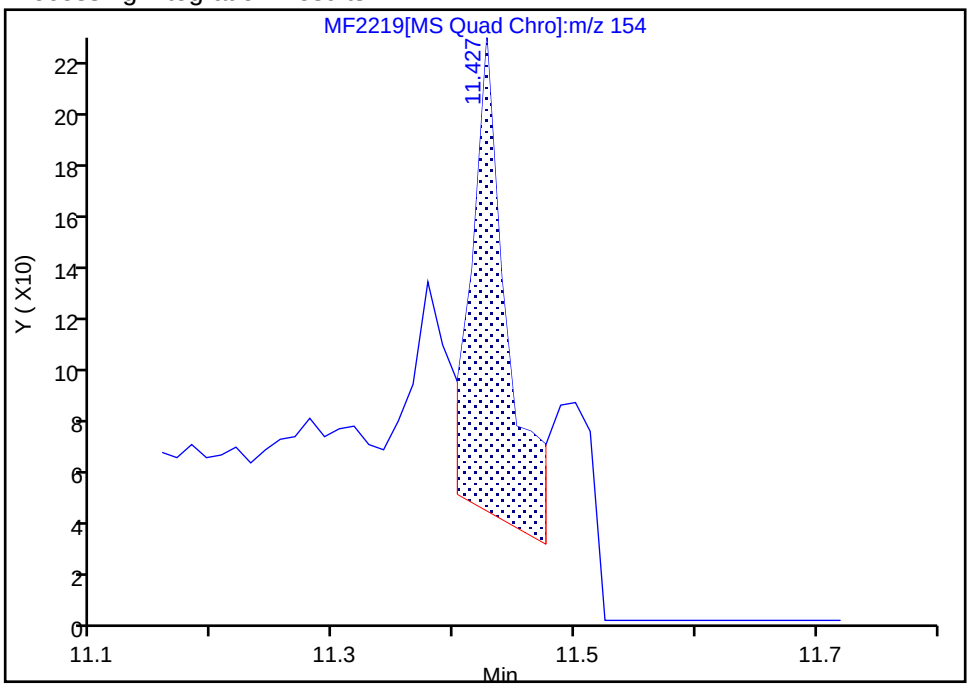
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

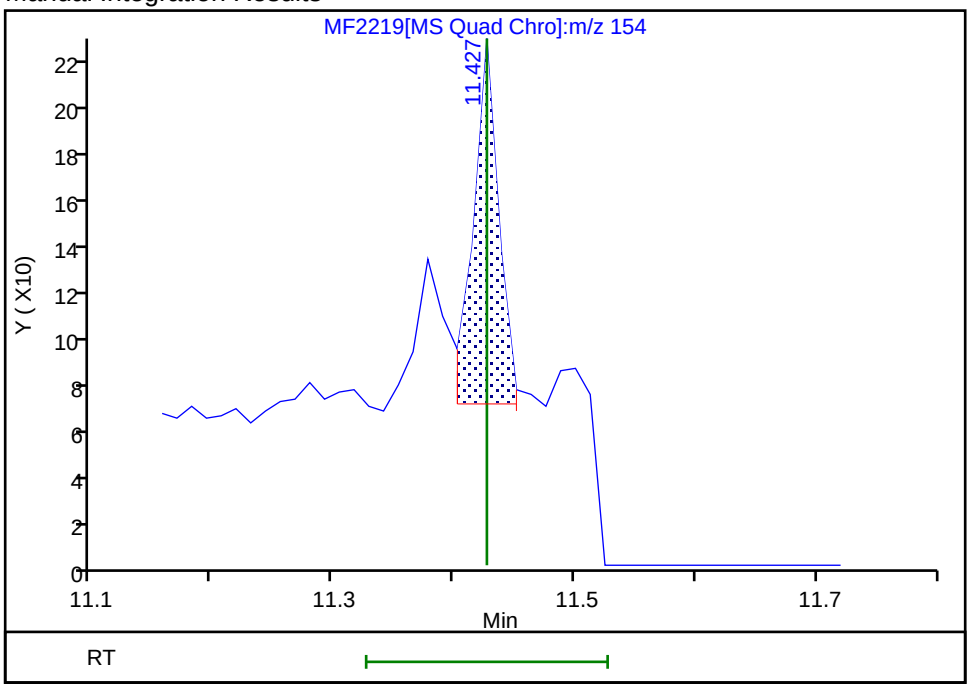
Processing Integration Results

RT: 11.43
Area: 352
Amount: 0.003706
Amount Units: ug/ml



Manual Integration Results

RT: 11.43
Area: 218
Amount: 0.002295
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:44:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

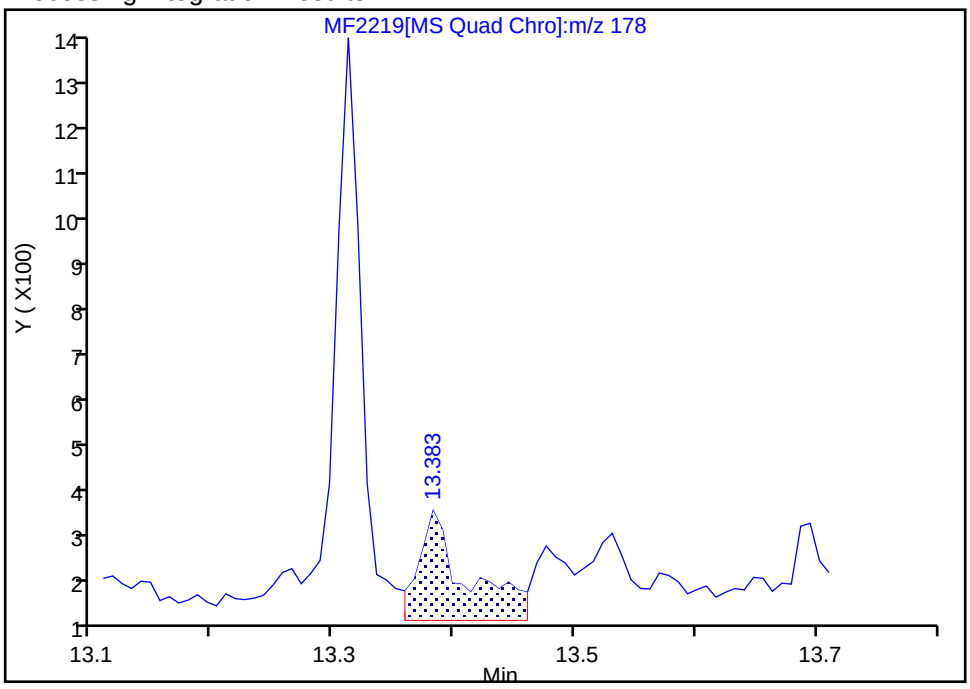
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D				
Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

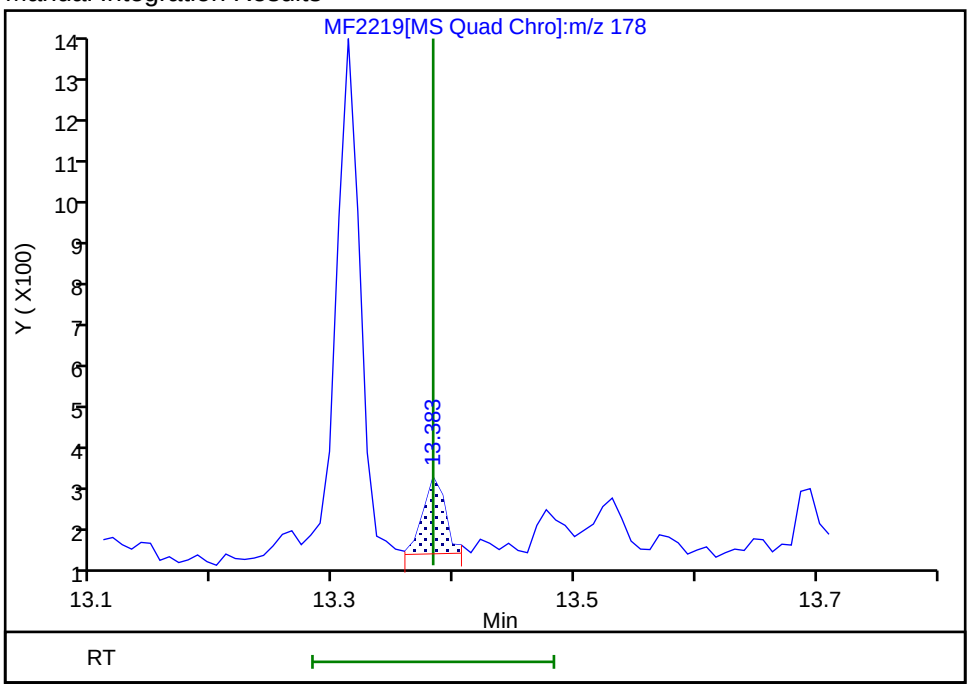
Processing Integration Results

RT: 13.38
Area: 606
Amount: 0.003928
Amount Units: ug/ml



Manual Integration Results

RT: 13.38
Area: 217
Amount: 0.001407
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:44:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

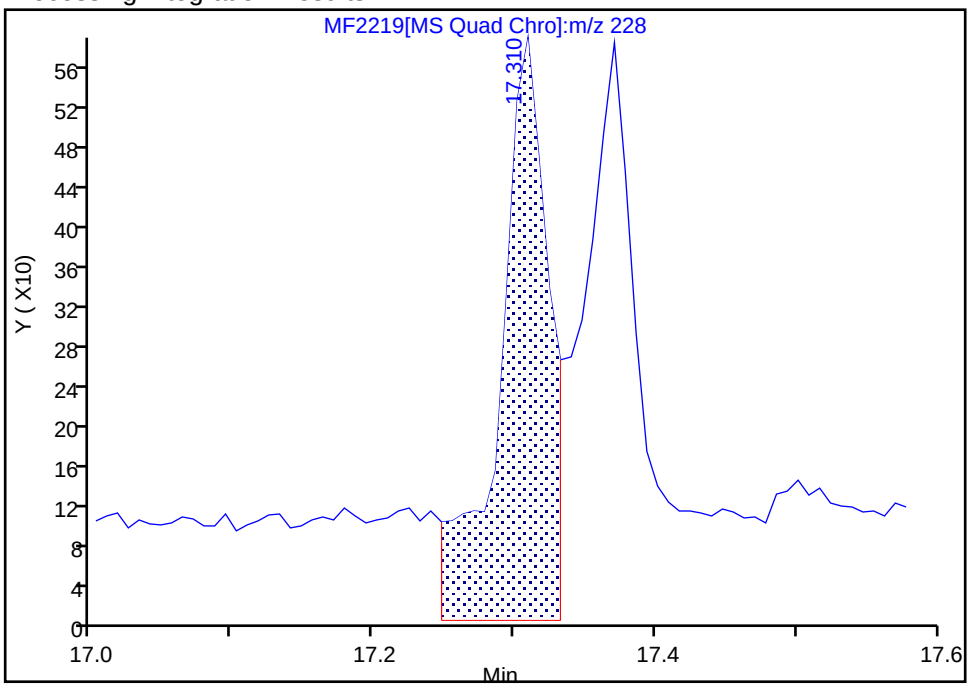
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D				
Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

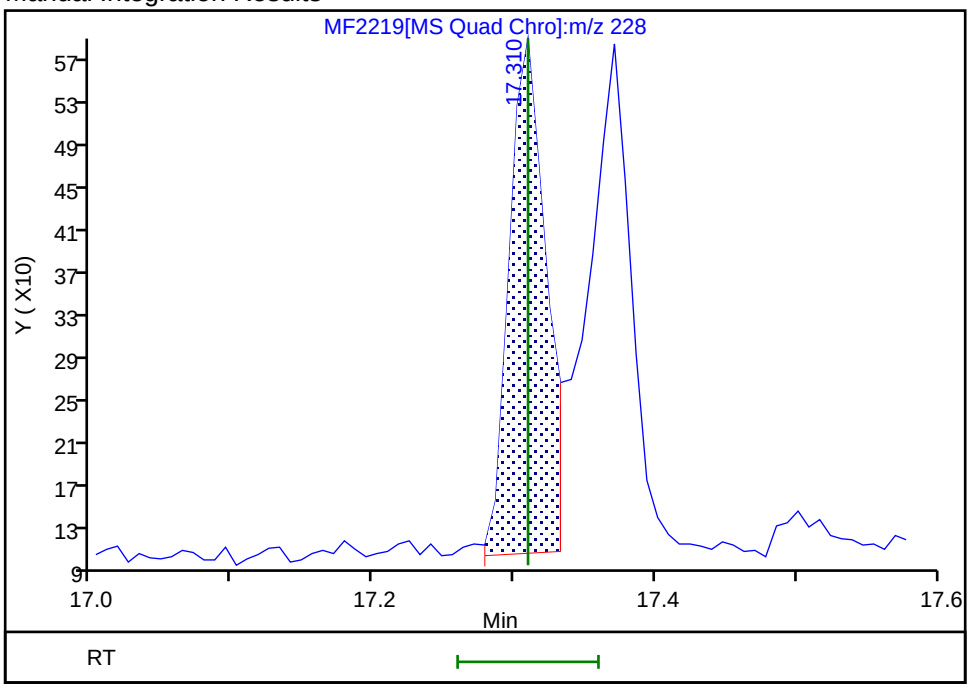
Processing Integration Results

RT: 17.31
Area: 1377
Amount: 0.005741
Amount Units: ug/ml



Manual Integration Results

RT: 17.31
Area: 858
Amount: 0.003577
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:45:05

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

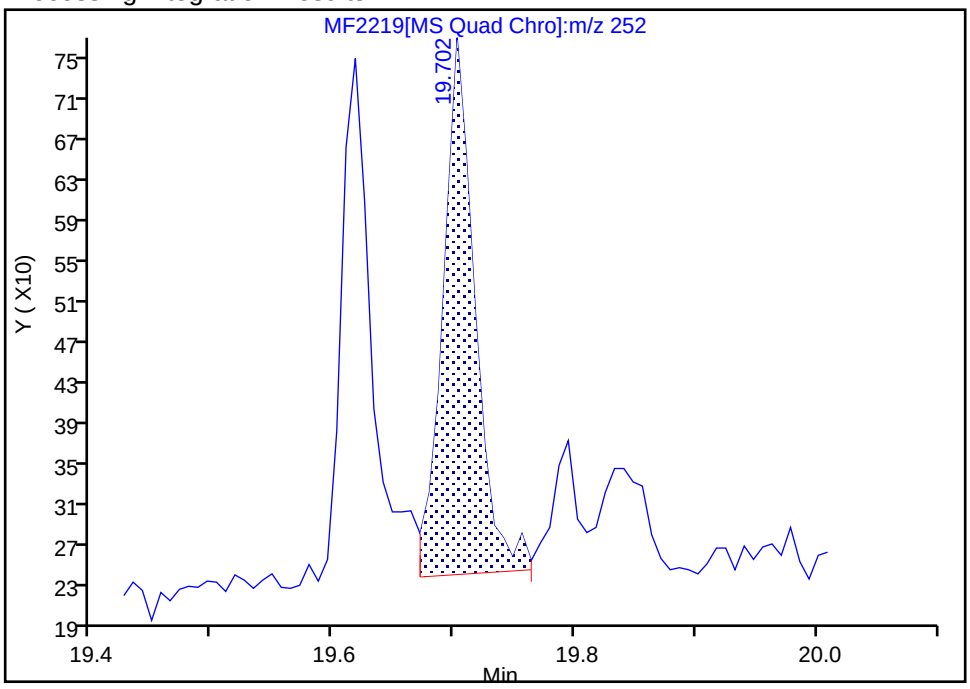
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

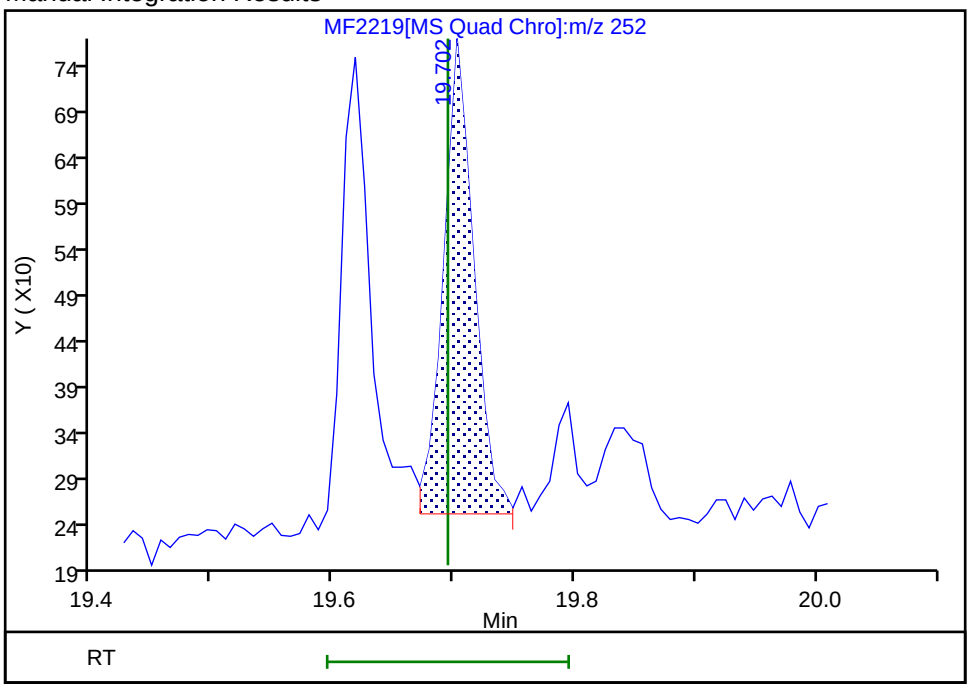
Processing Integration Results

RT: 19.70
Area: 951
Amount: 0.004248
Amount Units: ug/ml



Manual Integration Results

RT: 19.70
Area: 883
Amount: 0.003945
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:45:30

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

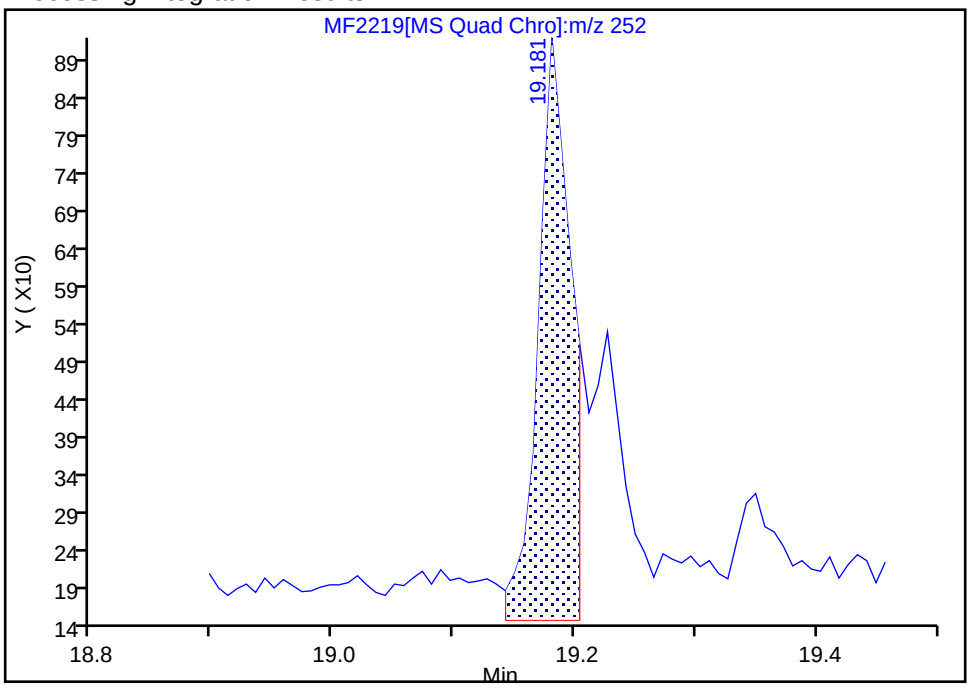
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D				
Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

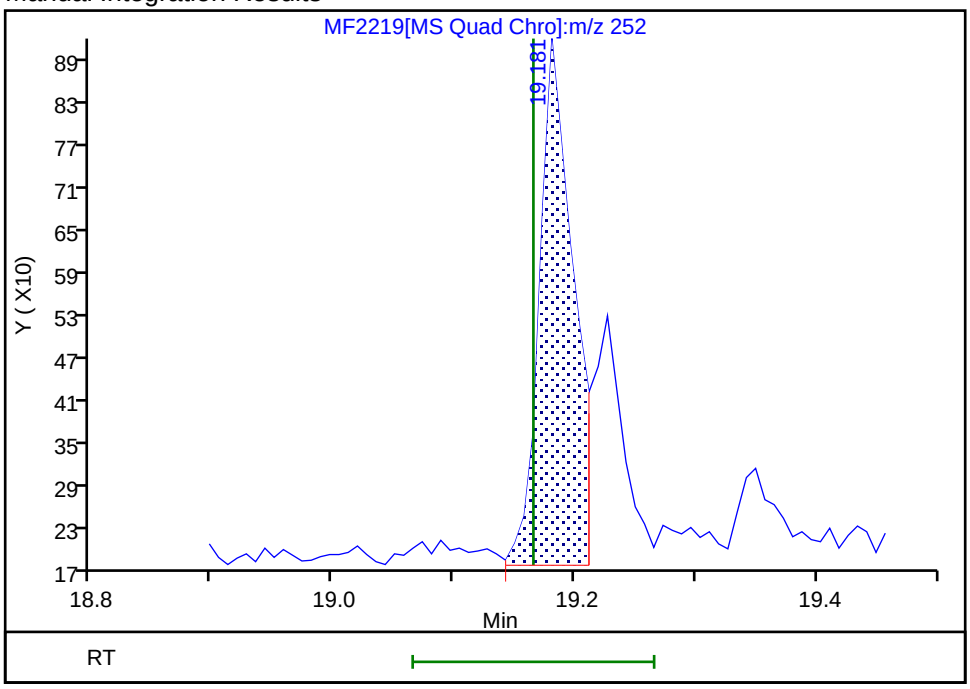
Processing Integration Results

RT: 19.18
Area: 1381
Amount: 0.005959
Amount Units: ug/ml



Manual Integration Results

RT: 19.18
Area: 1396
Amount: 0.006024
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:45:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

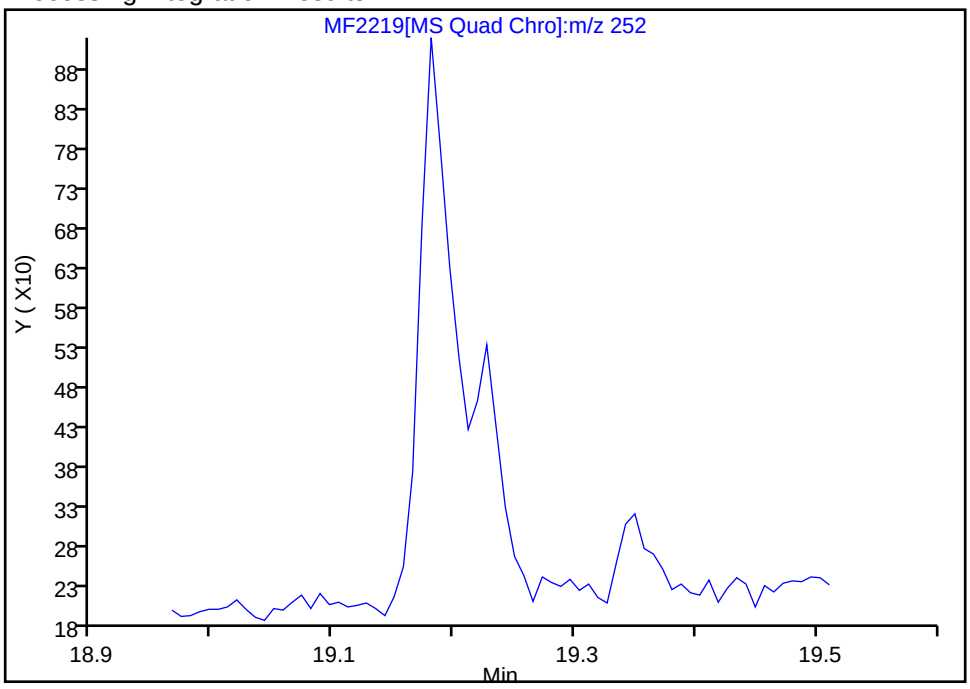
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D				
Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

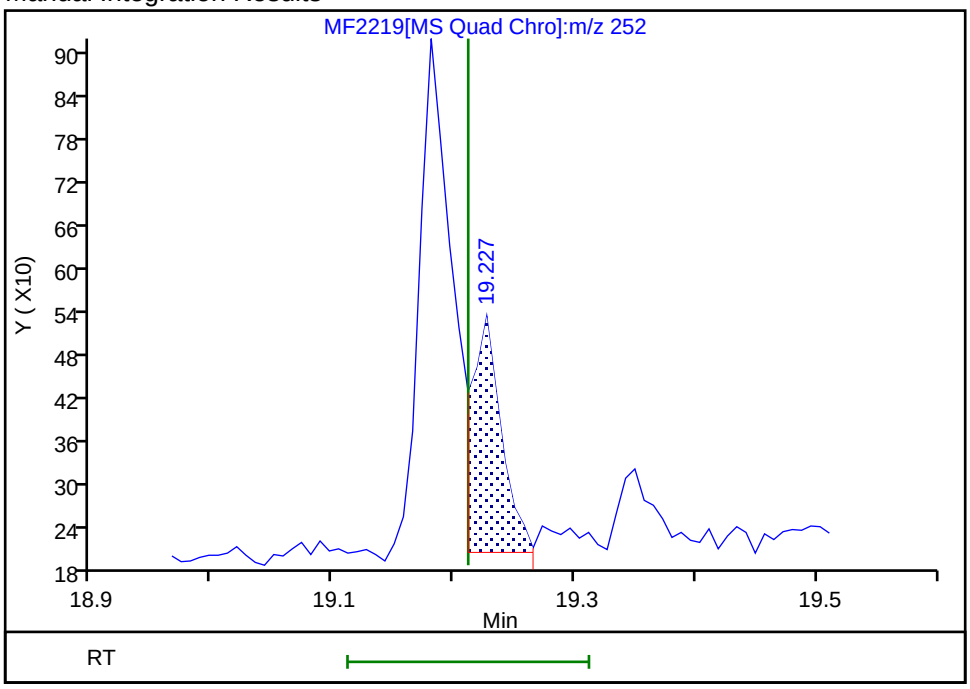
Not Detected
Expected RT: 19.21

Processing Integration Results



Manual Integration Results

RT: 19.23
Area: 534
Amount: 0.002125
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:45:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

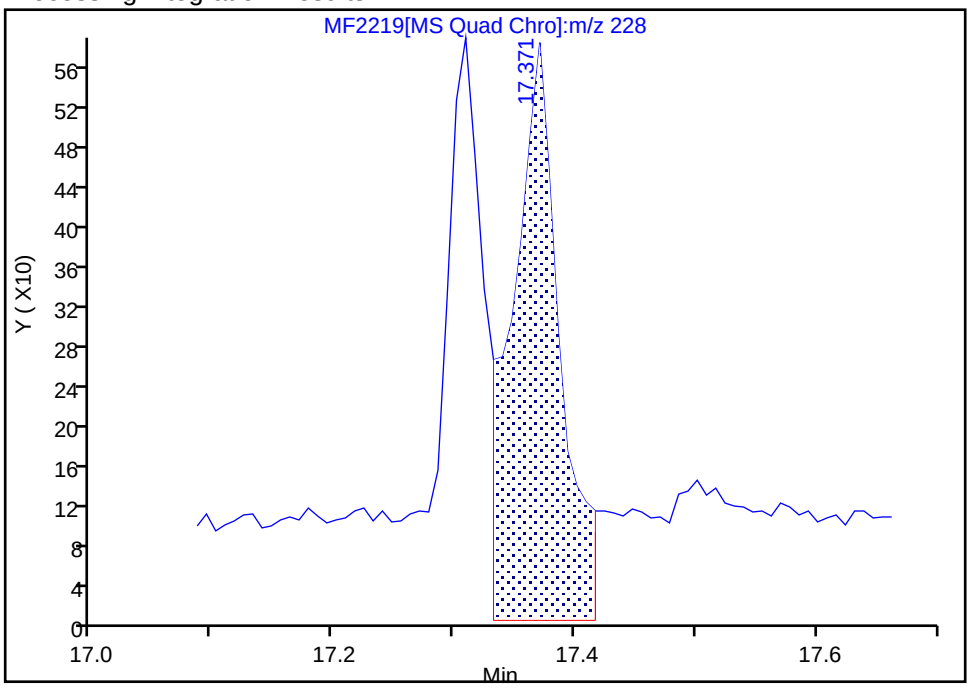
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D				
Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

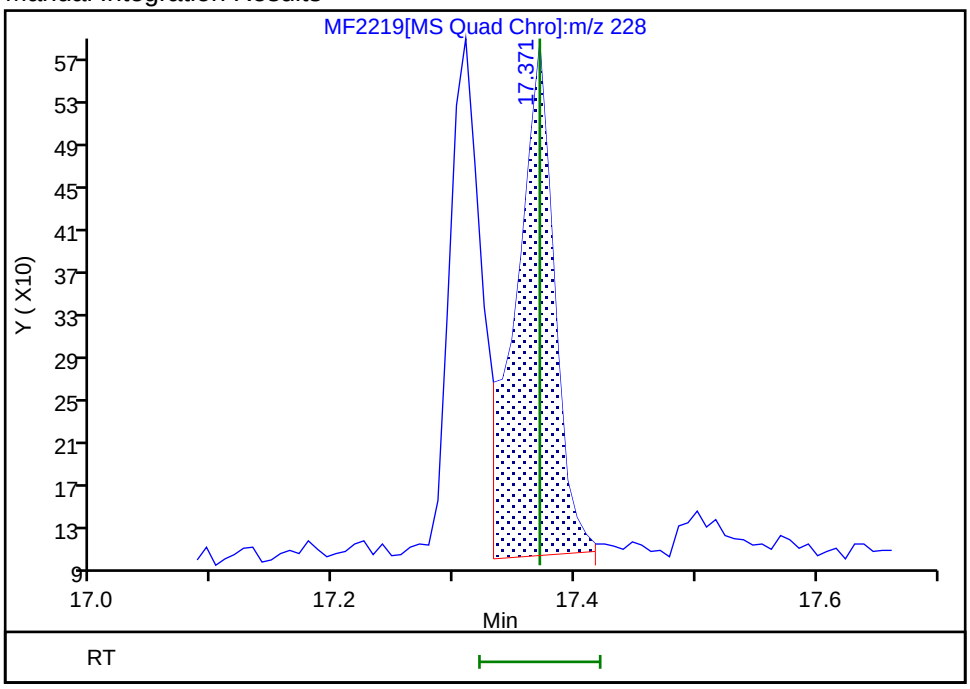
Processing Integration Results

RT: 17.37
Area: 1552
Amount: 0.006138
Amount Units: ug/ml



Manual Integration Results

RT: 17.37
Area: 1048
Amount: 0.004145
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:45:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

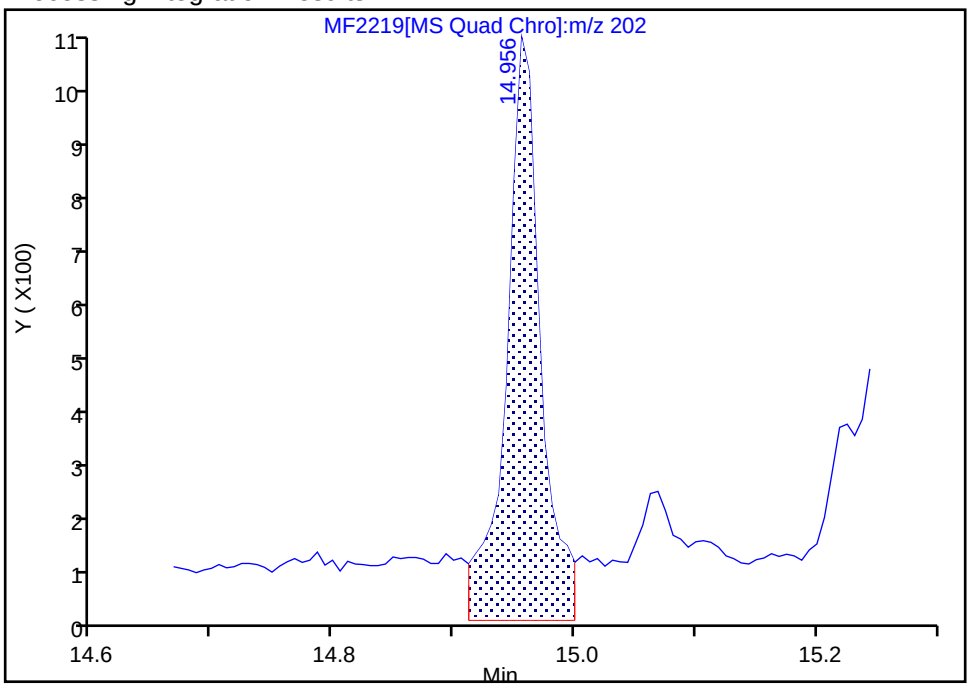
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Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

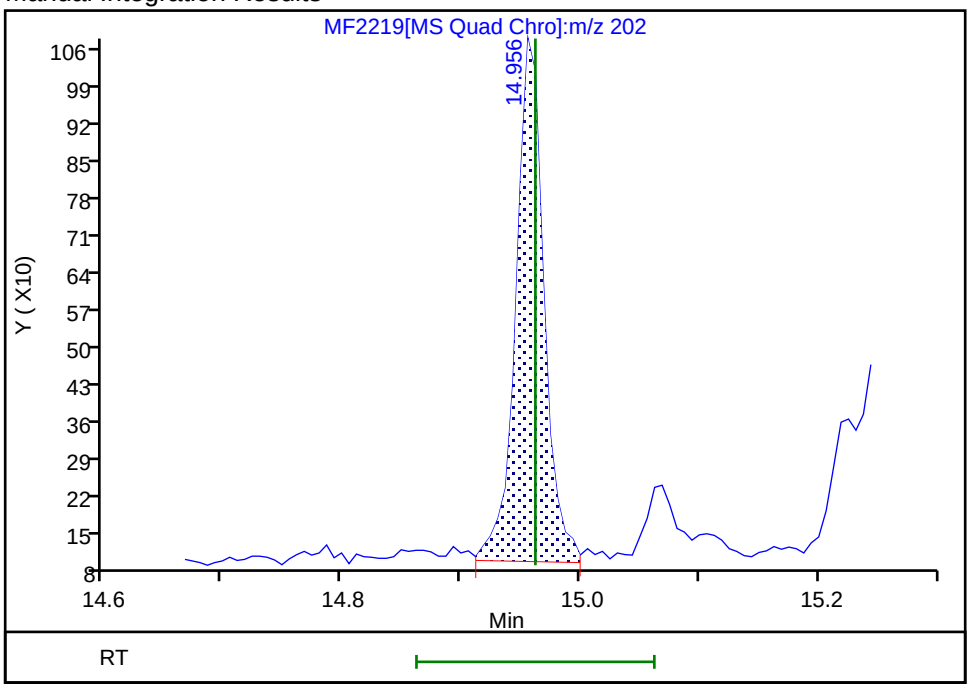
Processing Integration Results

RT: 14.96
Area: 2103
Amount: 0.009589
Amount Units: ug/ml



Manual Integration Results

RT: 14.96
Area: 1603
Amount: 0.007309
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:44:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

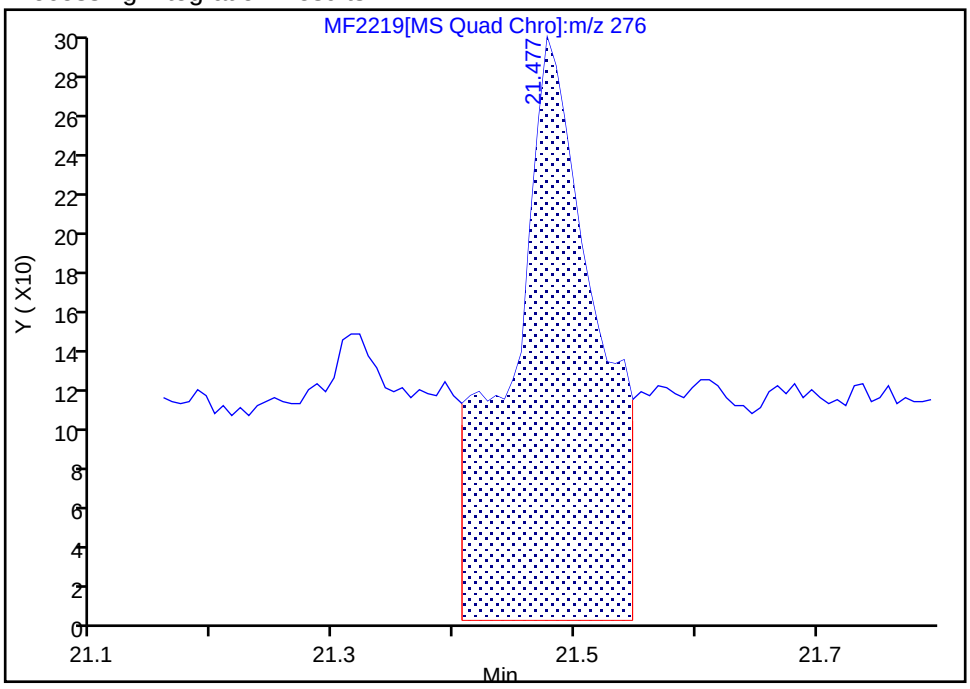
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2219.D				
Injection Date:	01-Jul-2021 06:36:01	Instrument ID:	HP21585		
Lims ID:	410-45105-A-13-A	Lab Sample ID:	410-45105-13		
Client ID:	MW-11D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

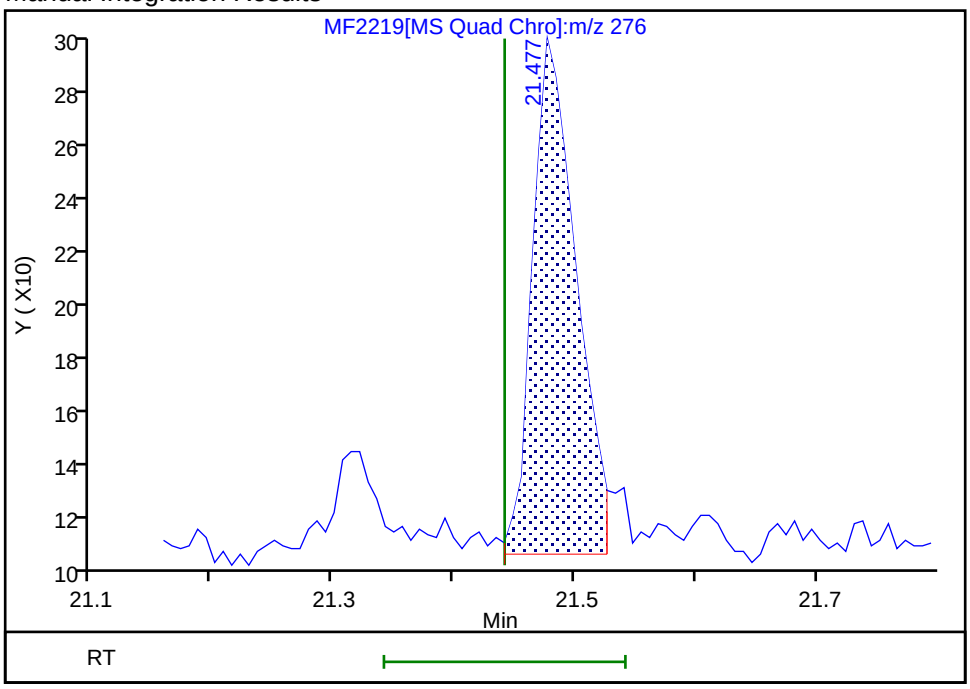
Processing Integration Results

RT: 21.48
Area: 1407
Amount: 0.006693
Amount Units: ug/ml



Manual Integration Results

RT: 21.48
Area: 464
Amount: 0.002207
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:45:38
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-4S-20210624 Lab Sample ID: 410-45105-14

Matrix: Groundwater Lab File ID: NG0375.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 08:53

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 240.9(mL) Date Analyzed: 07/06/2021 08:29

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.60		0.052	0.010
120-12-7	Anthracene	0.48		0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	4.5		0.052	0.010
86-73-7	Fluorene	8.8		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	0.21		0.073	0.031
129-00-0	Pyrene	4.5		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		36-111
93951-69-0	Fluoranthene-d10 (Surr)	98		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D
Lims ID: 410-45105-A-14-A
Client ID: MW-4S-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 08:29:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-14-A
Misc. Info.: 410-0033556-006
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:07:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.066	6.053	0.013	97	203665	0.2500	
* 5 Naphthalene-d8	136	8.028	8.027	0.001	100	721430	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.276	9.286	-0.010	100	302008	0.1965	
12 Acenaphthylene	152	10.638	10.638	0.000	89	440600	0.1444	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	31	396634	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	96	14516337	8.21	E
17 Fluorene	166	11.633	11.625	0.007	98	4807171	2.11	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	654021	0.2500	
21 Phenanthrene	178	12.823	12.822	0.001	99	148024	0.0500	
22 Anthracene	178	12.884	12.884	0.000	100	303039	0.1164	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	97	661458	0.2458	
25 Fluoranthene	202	14.484	14.484	0.000	94	3365438	1.09	
26 Pyrene	202	14.828	14.828	0.000	95	4122718	1.08	
* 29 Chrysene-d12	240	16.871	16.870	0.001	81	755065	0.2500	a
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.217	19.225	-0.008	96	686023	0.1954	
* 38 Perylene-d12	264	19.348	19.355	-0.007	95	951330	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

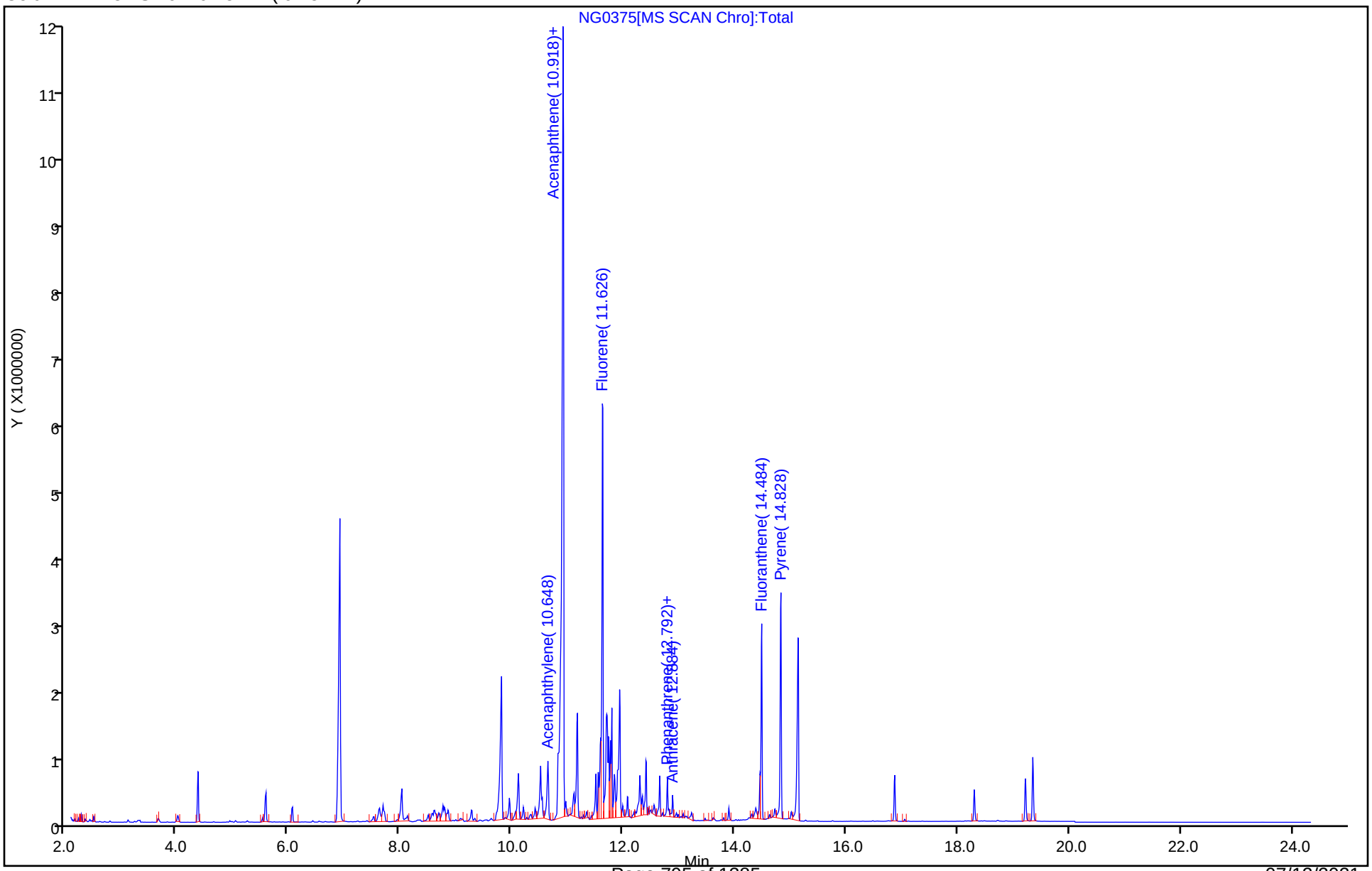
Report Date: 06-Jul-2021 20:01:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D

Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14	Worklist Smp#:	6
Client ID:	MW-4S-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



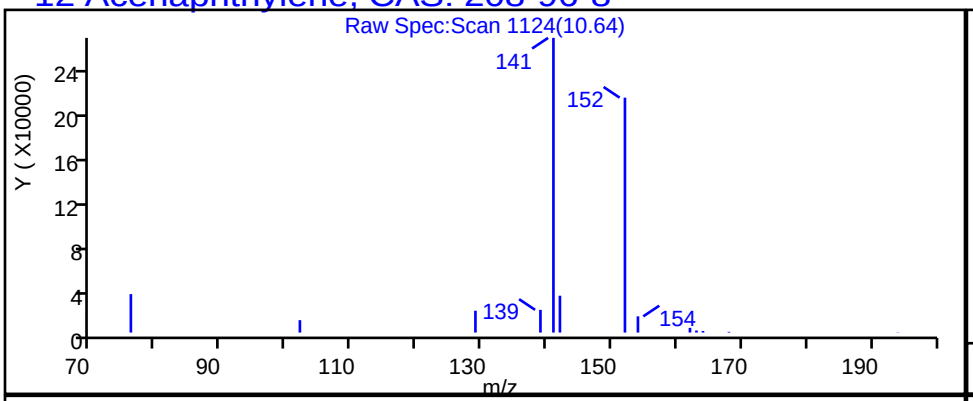
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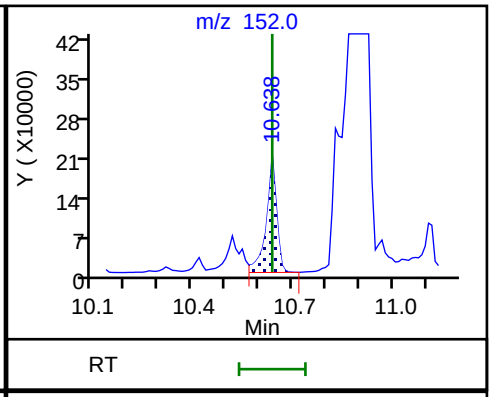
Eurofins Lancaster Laboratories Env, LLC

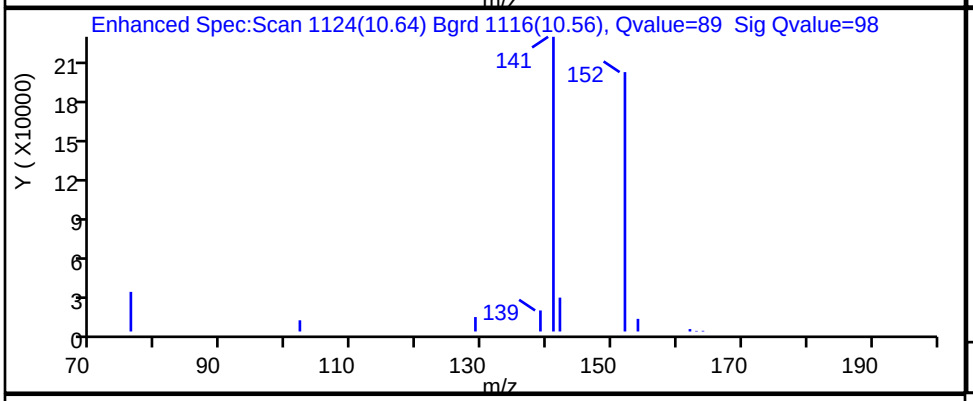
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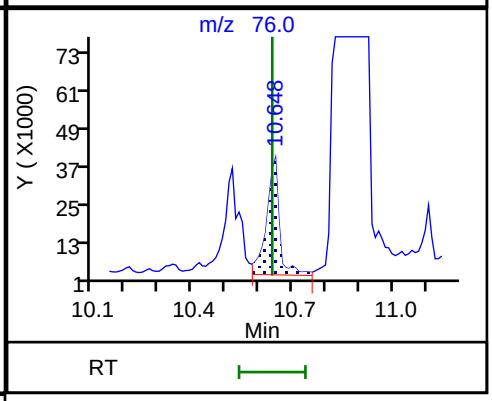
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14
Client ID:	MW-4S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

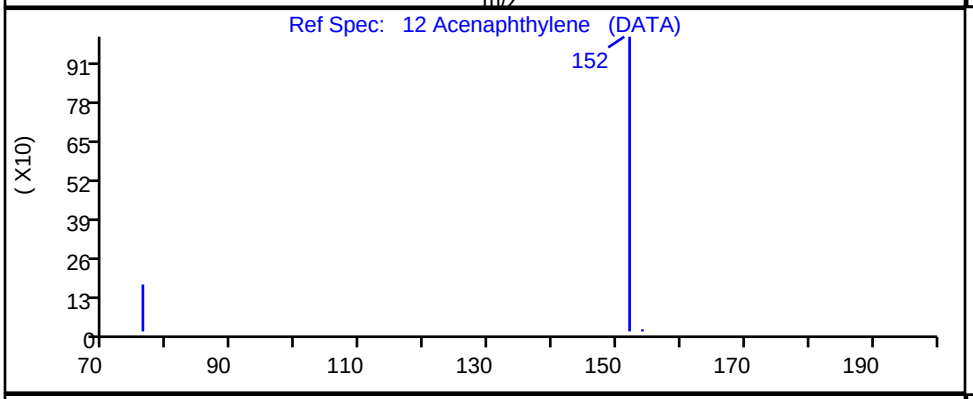
12 Acenaphthylene, CAS: 208-96-8

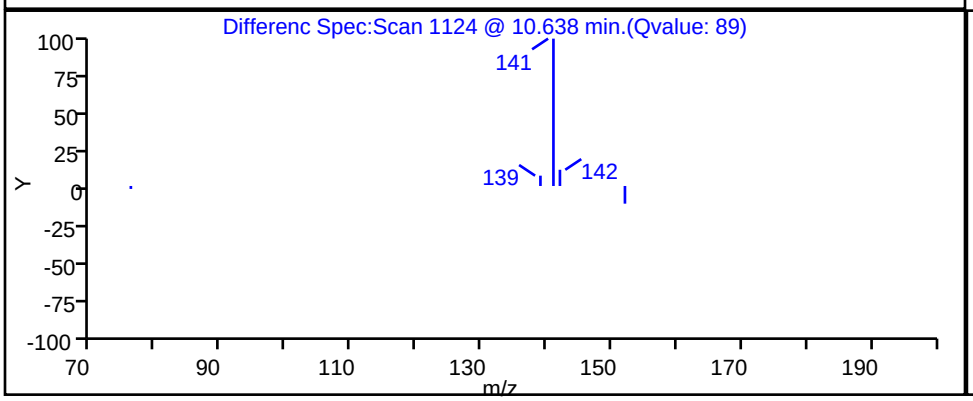


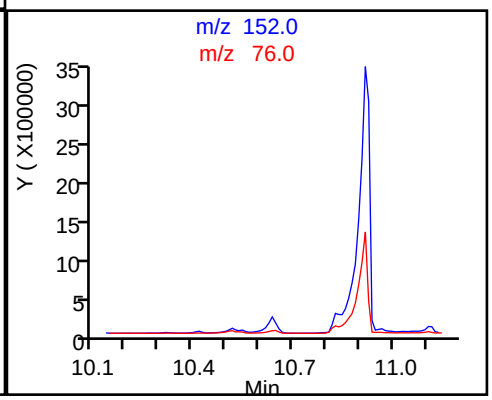








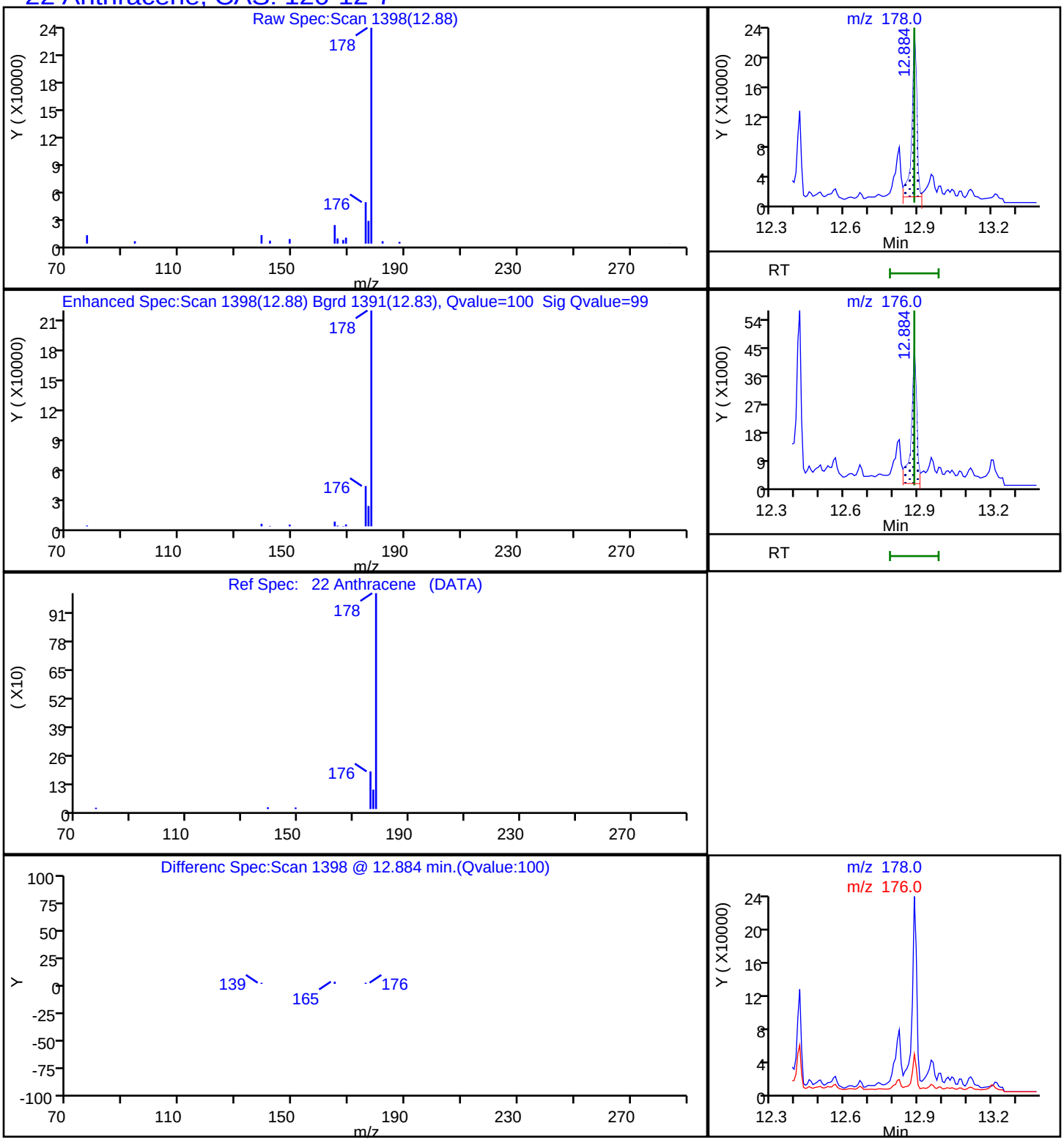




Eurofins Lancaster Laboratories Env, LLC

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Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14
Client ID:	MW-4S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

22 Anthracene, CAS: 120-12-7



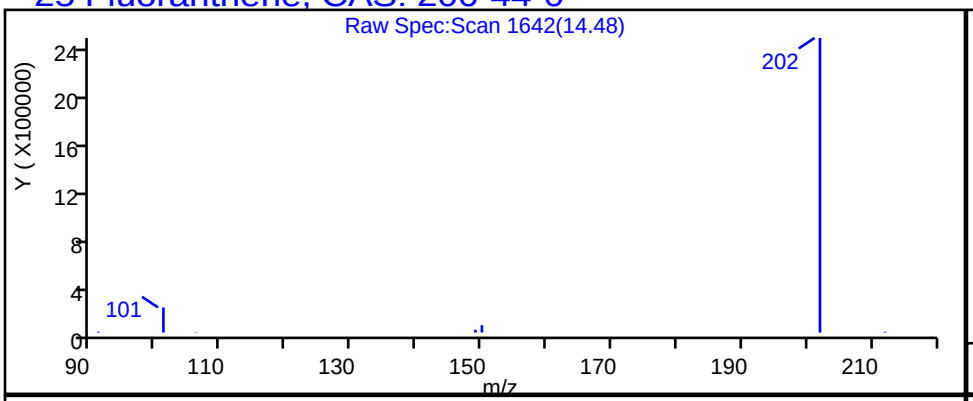
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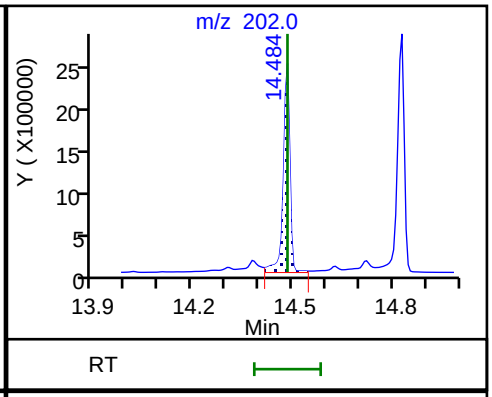
Eurofins Lancaster Laboratories Env, LLC

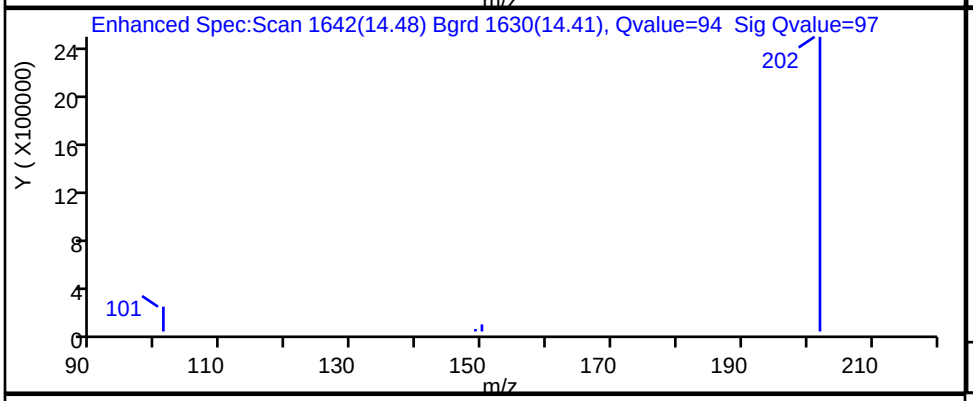
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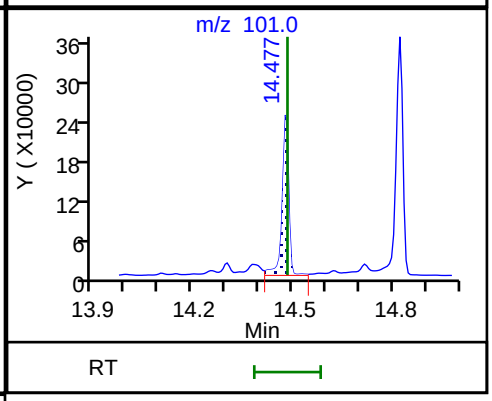
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Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
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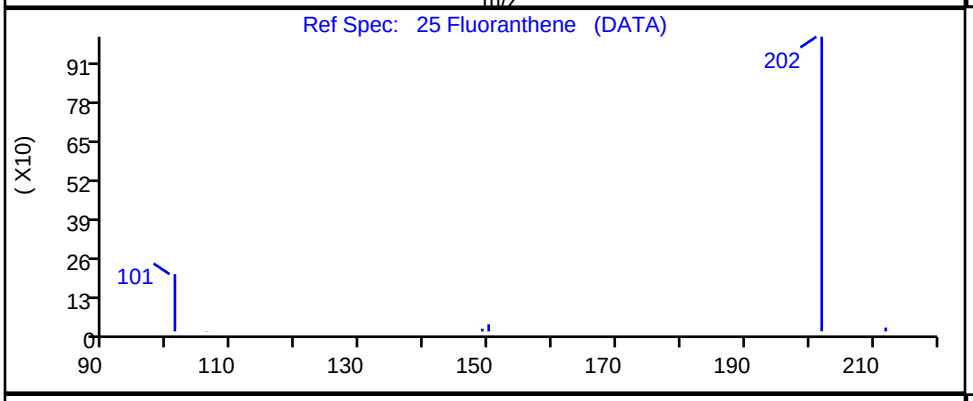
25 Fluoranthene, CAS: 206-44-0

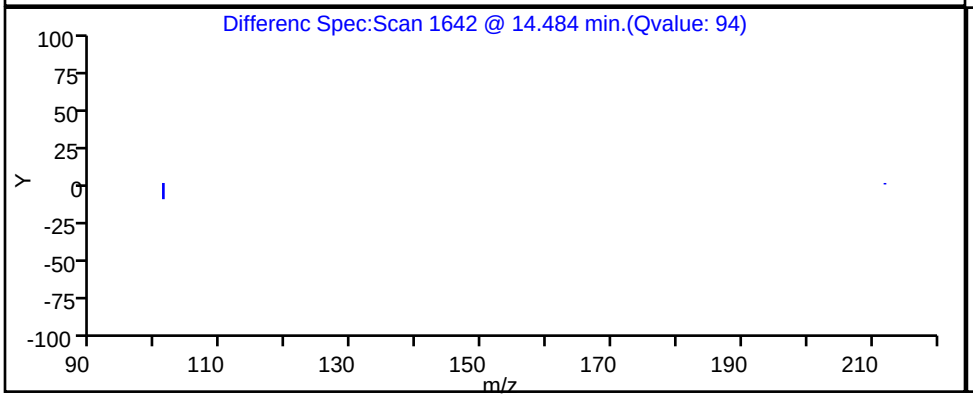


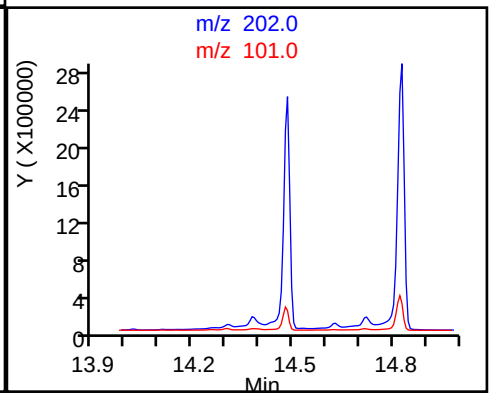








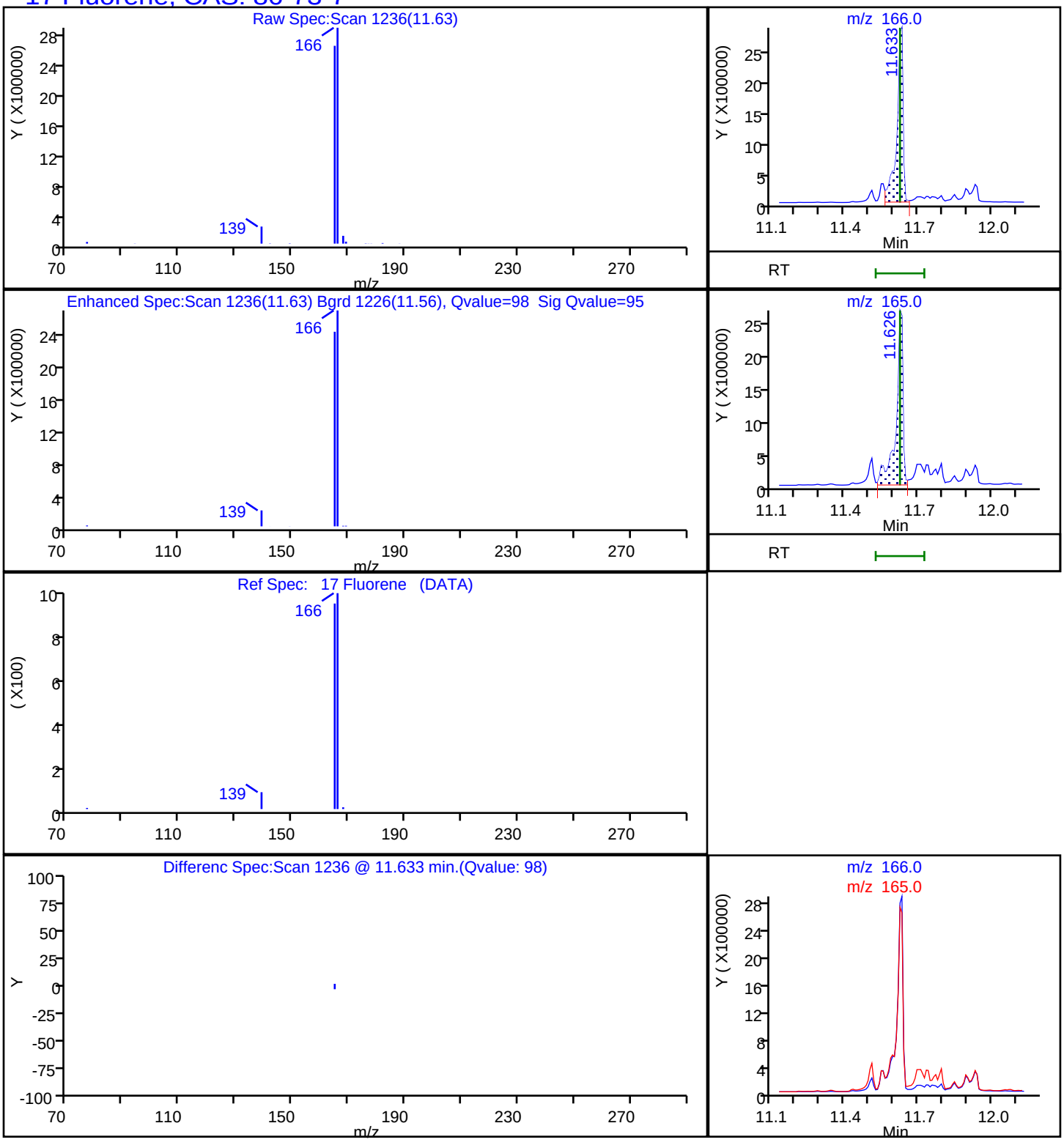




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D				
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

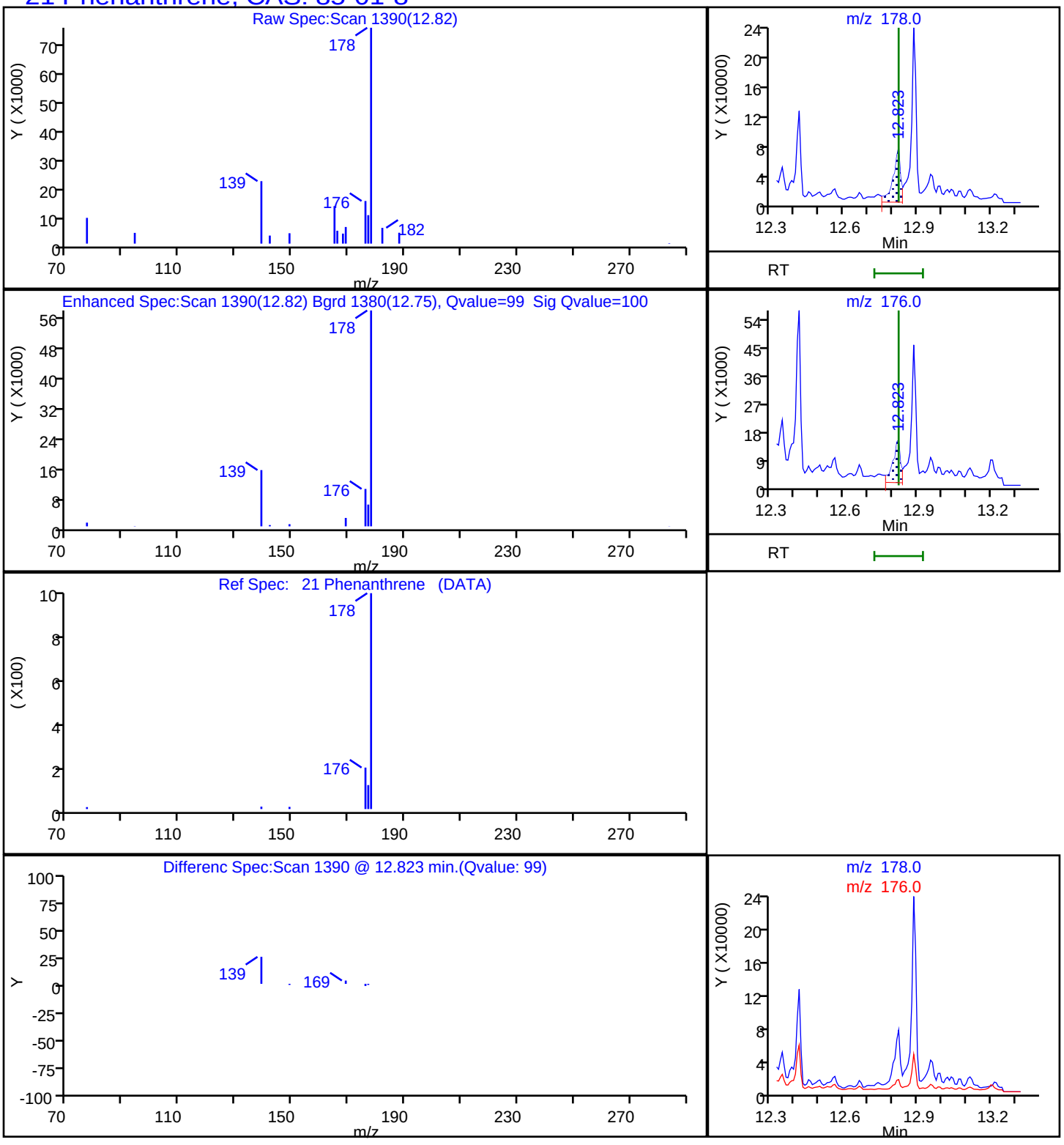
17 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D		
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14
Client ID:	MW-4S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

21 Phenanthrene, CAS: 85-01-8



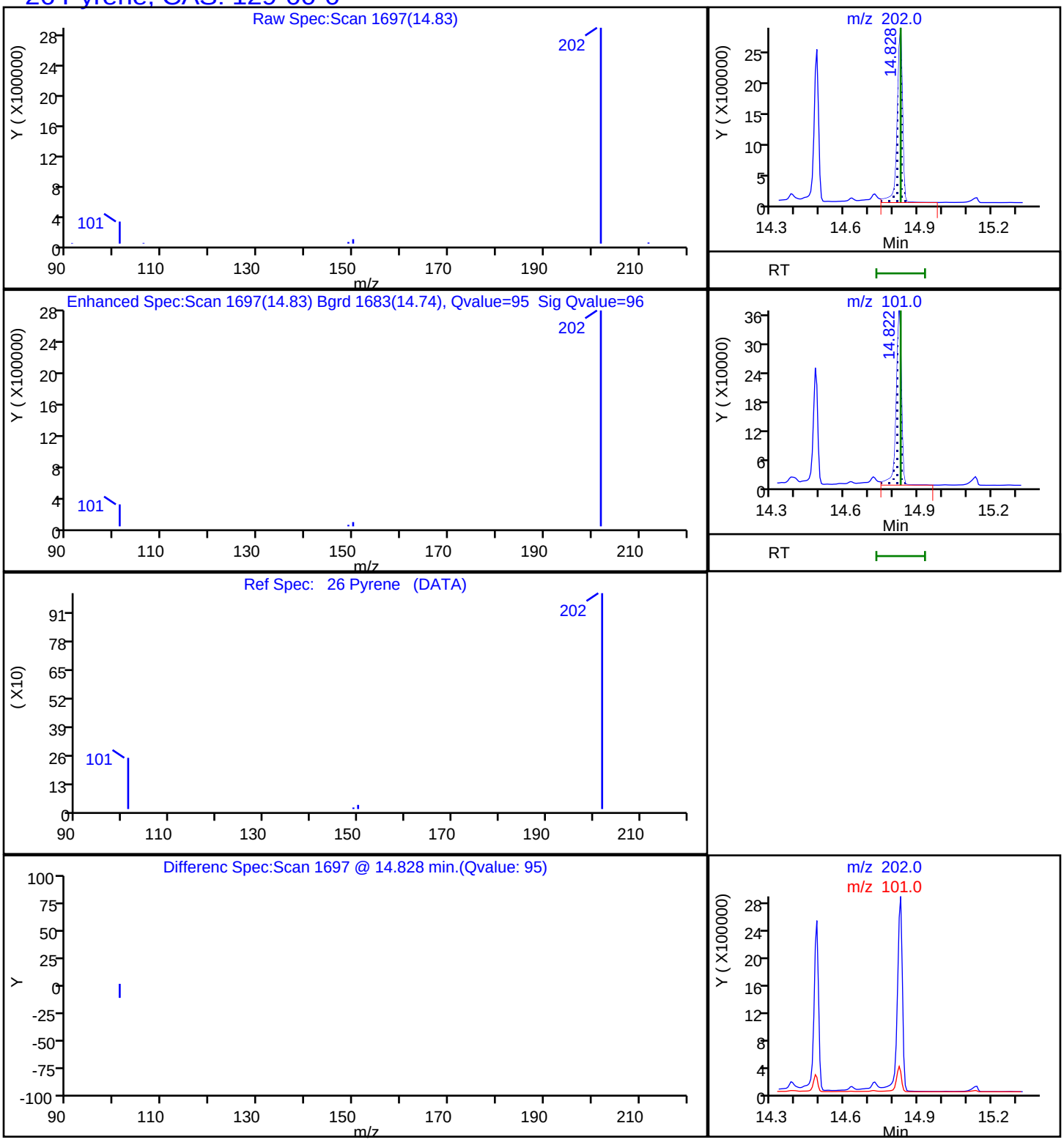
Report Date: 06-Jul-2021 20:01:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D

Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14
Client ID:	MW-4S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	6 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

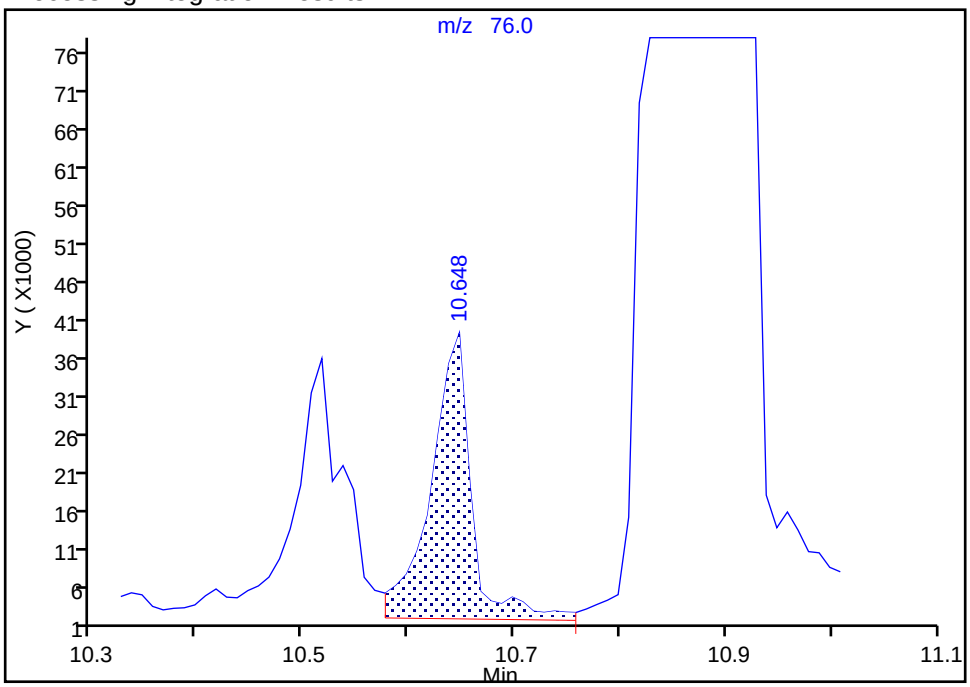
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Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 2

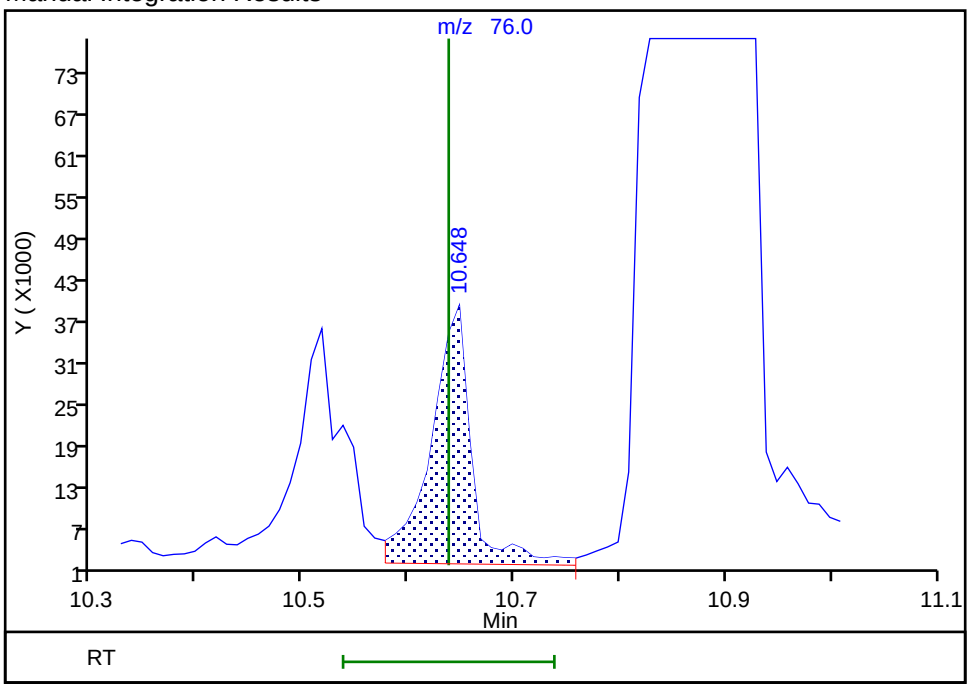
Processing Integration Results

RT: 10.65
Area: 99329
Amount: 0.144382
Amount Units: ug/ml



Manual Integration Results

RT: 10.65
Area: 99329
Amount: 0.144382
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:36:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

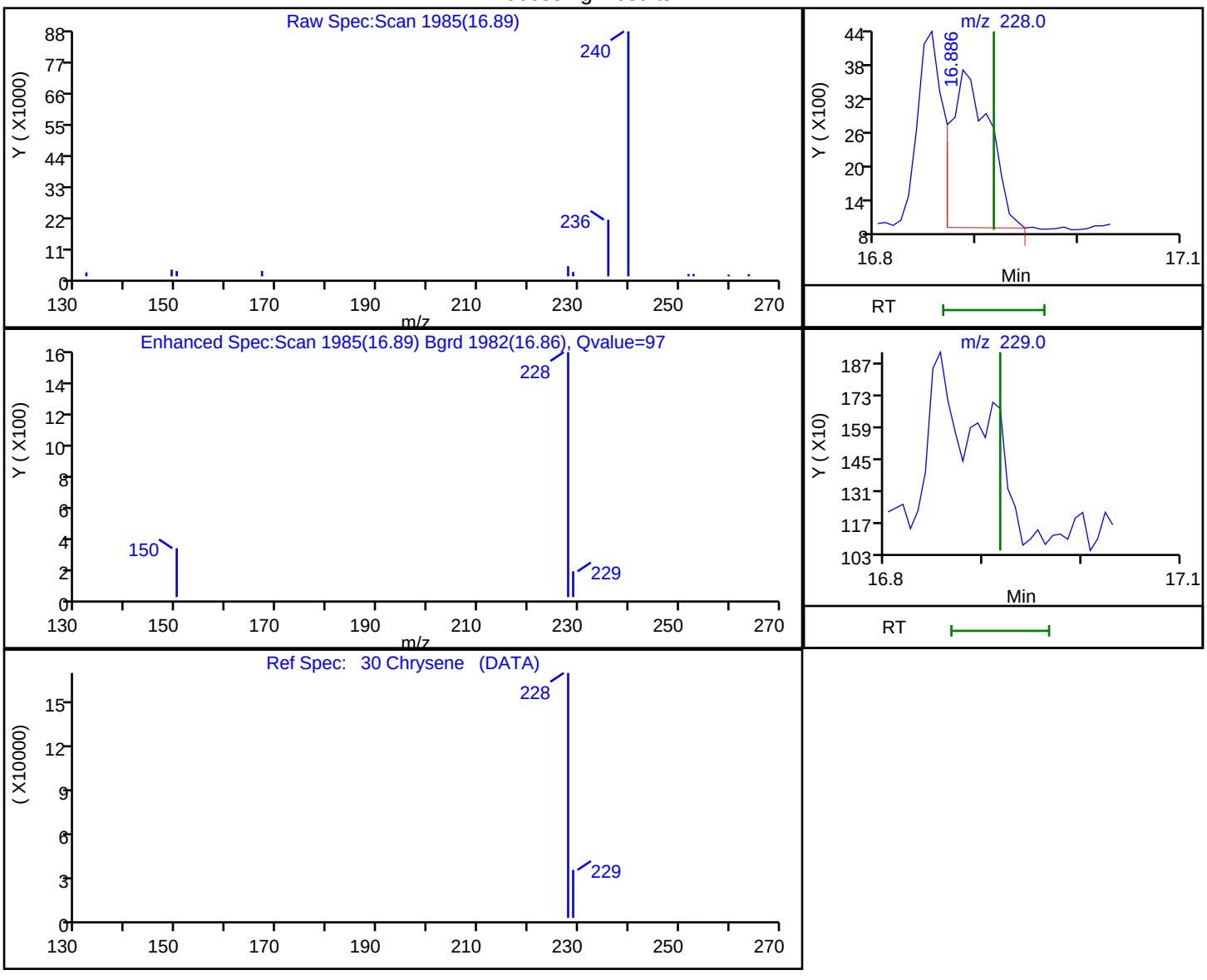
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D				
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Processing Results



RT	Mass	Response	Amount
16.89	228.00	7030	0.002007
16.92	229.00	0	

Reviewer: transuea, 06-Jul-2021 19:36:48

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

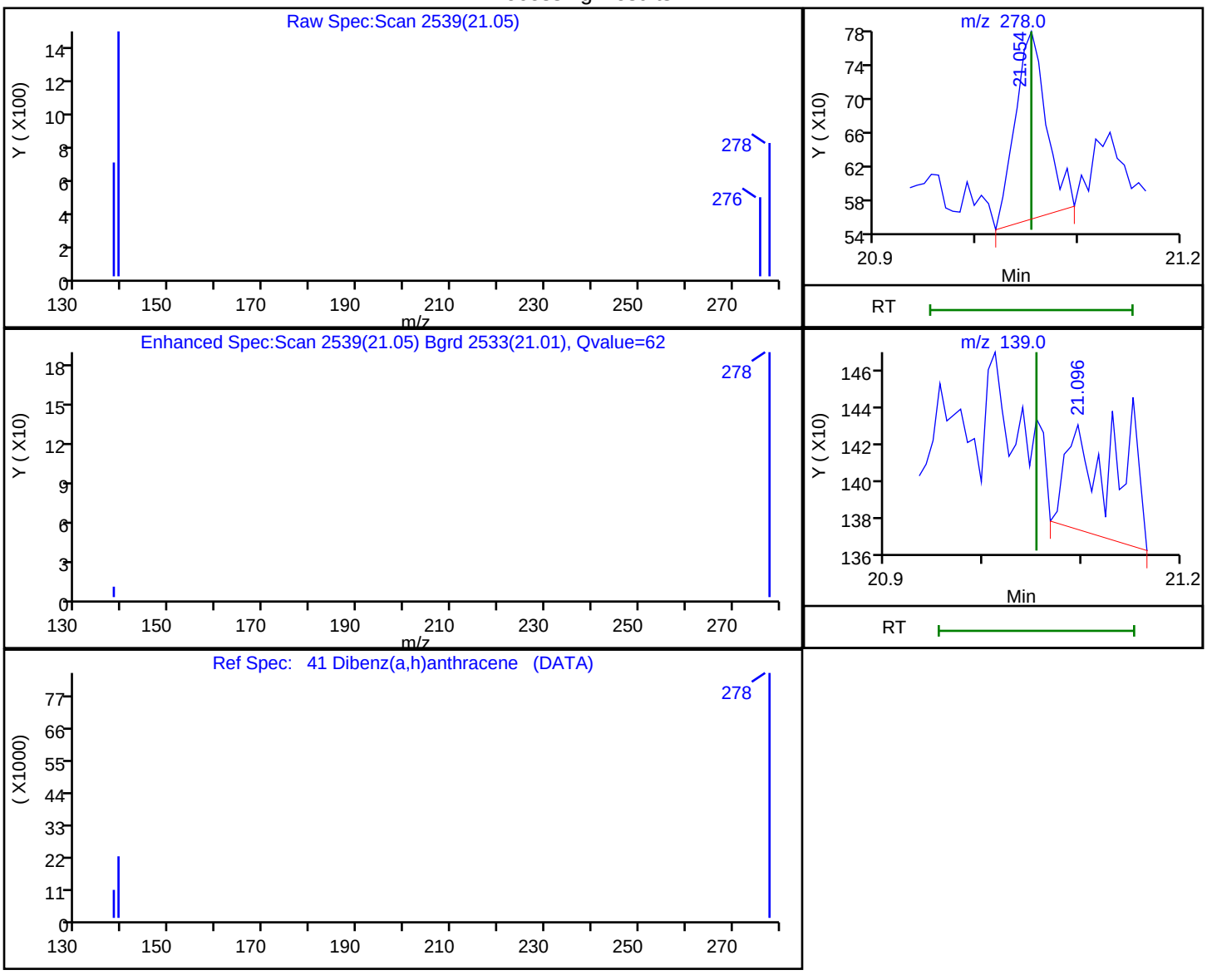
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D				
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.05	278.00	475	0.006787
21.10	139.00	204	

Reviewer: transuea, 06-Jul-2021 19:36:56

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

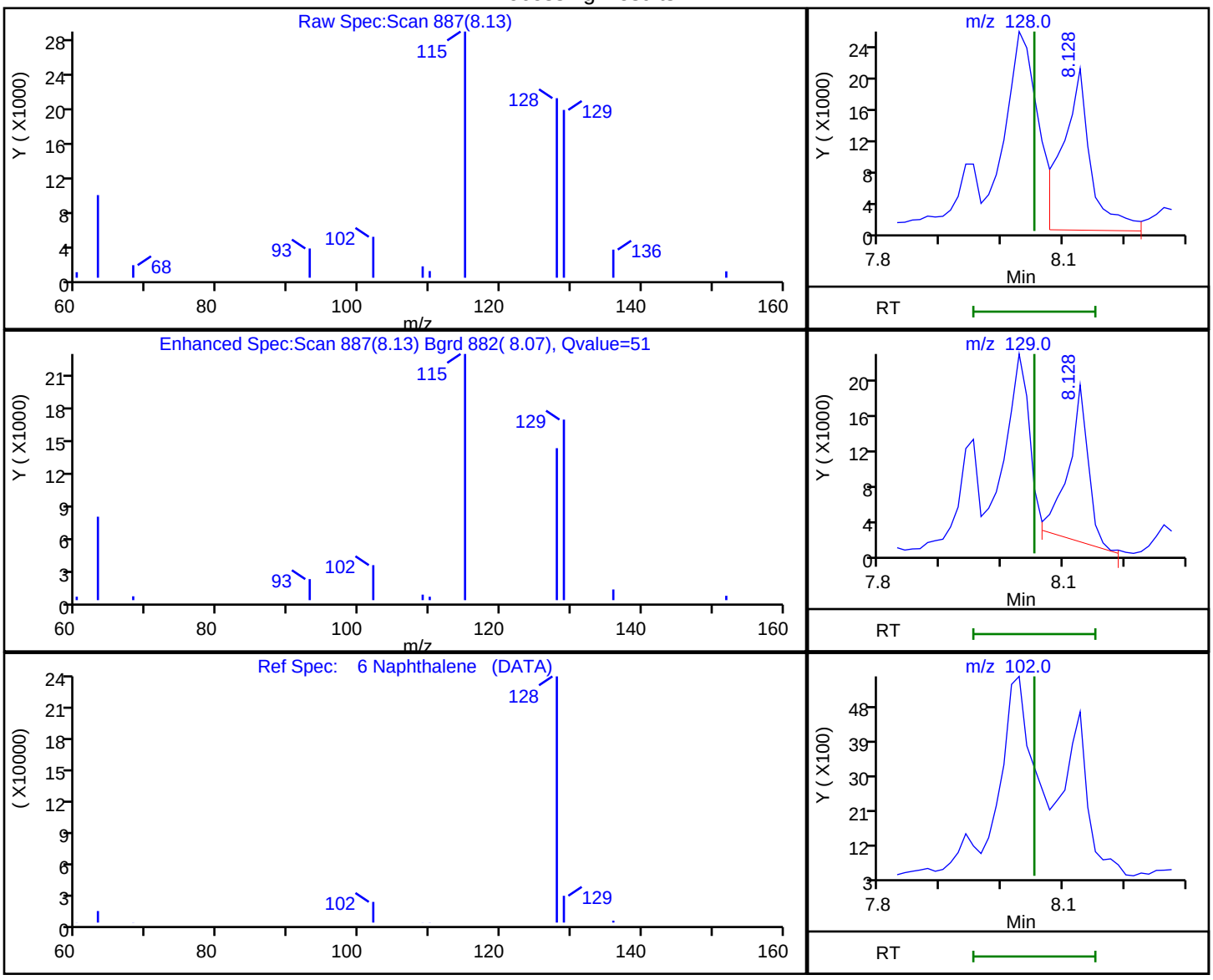
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D				
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
8.13	128.00	61466	0.020677
8.13	129.00	38463	
8.05	102.00	0	

Reviewer: transuea, 06-Jul-2021 19:36:14

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

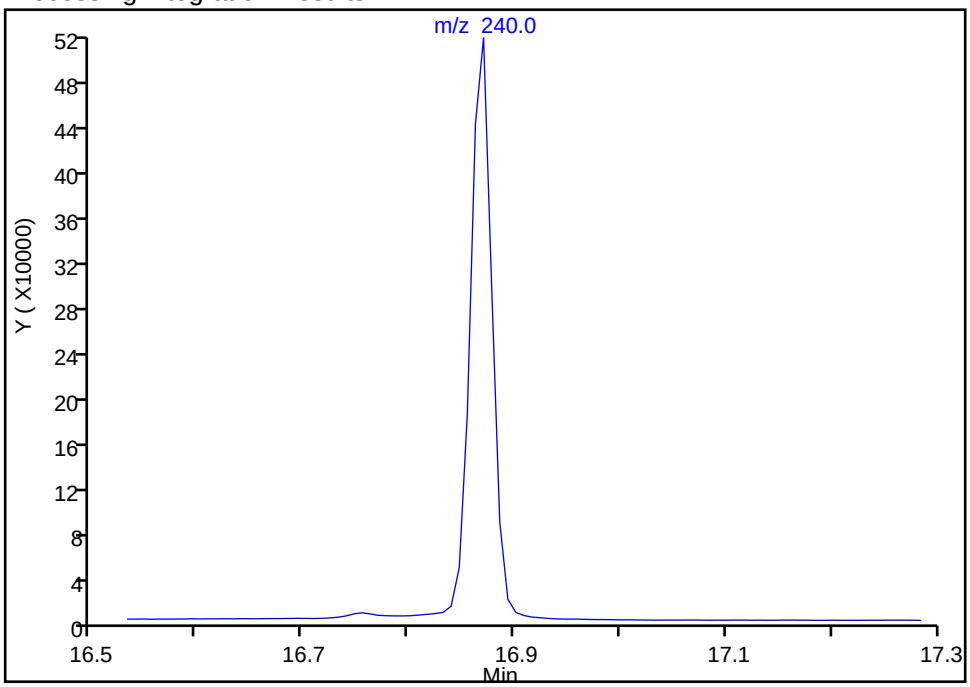
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0375.D				
Injection Date:	06-Jul-2021 08:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-14-A	Lab Sample ID:	410-45105-14		
Client ID:	MW-4S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

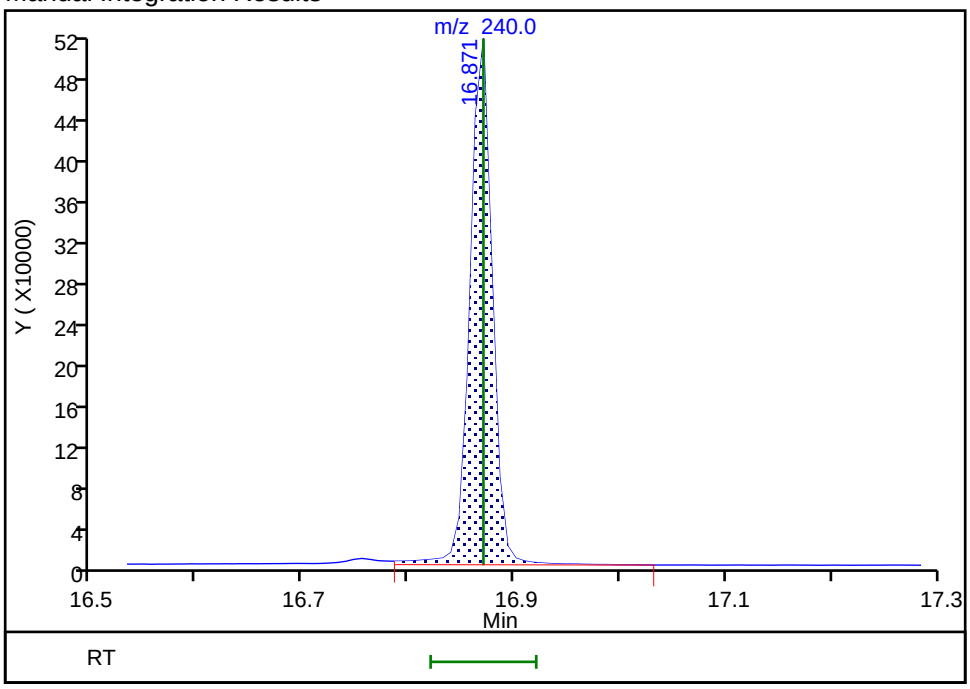
Not Detected
Expected RT: 16.87

Processing Integration Results



Manual Integration Results

RT: 16.87
Area: 755065
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 17:00:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-4S-20210624 DL Lab Sample ID: 410-45105-14 DL

Matrix: Groundwater Lab File ID: NG0376.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 08:53

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 240.9(mL) Date Analyzed: 07/06/2021 08:59

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	49		0.52	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	92		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	95		36-111
93951-69-0	Fluoranthene-d10 (Surr)	114		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0376.D
Lims ID: 410-45105-A-14-A DL
Client ID: MW-4S-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 08:59:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-45105-A-14-A
Misc. Info.: 410-0033556-007
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:37:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.057	6.053	0.004	91	177039	0.2500	
* 5 Naphthalene-d8	136	8.019	8.027	-0.008	100	620498	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.280	9.286	-0.006	99	31227	0.0236	
12 Acenaphthylene	152	10.632	10.638	-0.006	100	52487	0.0198	
* 13 Acenaphthene-d10	164	10.872	10.868	0.004	99	344912	0.2500	
14 Acenaphthene	154	10.912	10.918	-0.006	96	1808924	1.18	
17 Fluorene	166	11.630	11.625	0.004	98	602035	0.3045	
* 20 Phenanthrene-d10	188	12.788	12.792	-0.004	100	670475	0.2500	
22 Anthracene	178	12.889	12.884	0.005	99	40321	0.0151	
$ 24 Fluoranthene-d10 (Surr)	212	14.450	14.458	-0.002	97	78695	0.0285	
25 Fluoranthene	202	14.482	14.484	-0.002	96	420809	0.1327	
26 Pyrene	202	14.820	14.828	-0.008	97	527199	0.1451	
* 29 Chrysene-d12	240	16.869	16.870	-0.001	82	719968	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.216	19.225	-0.009	97	64069	0.0231	
* 38 Perylene-d12	264	19.346	19.355	-0.009	96	750721	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

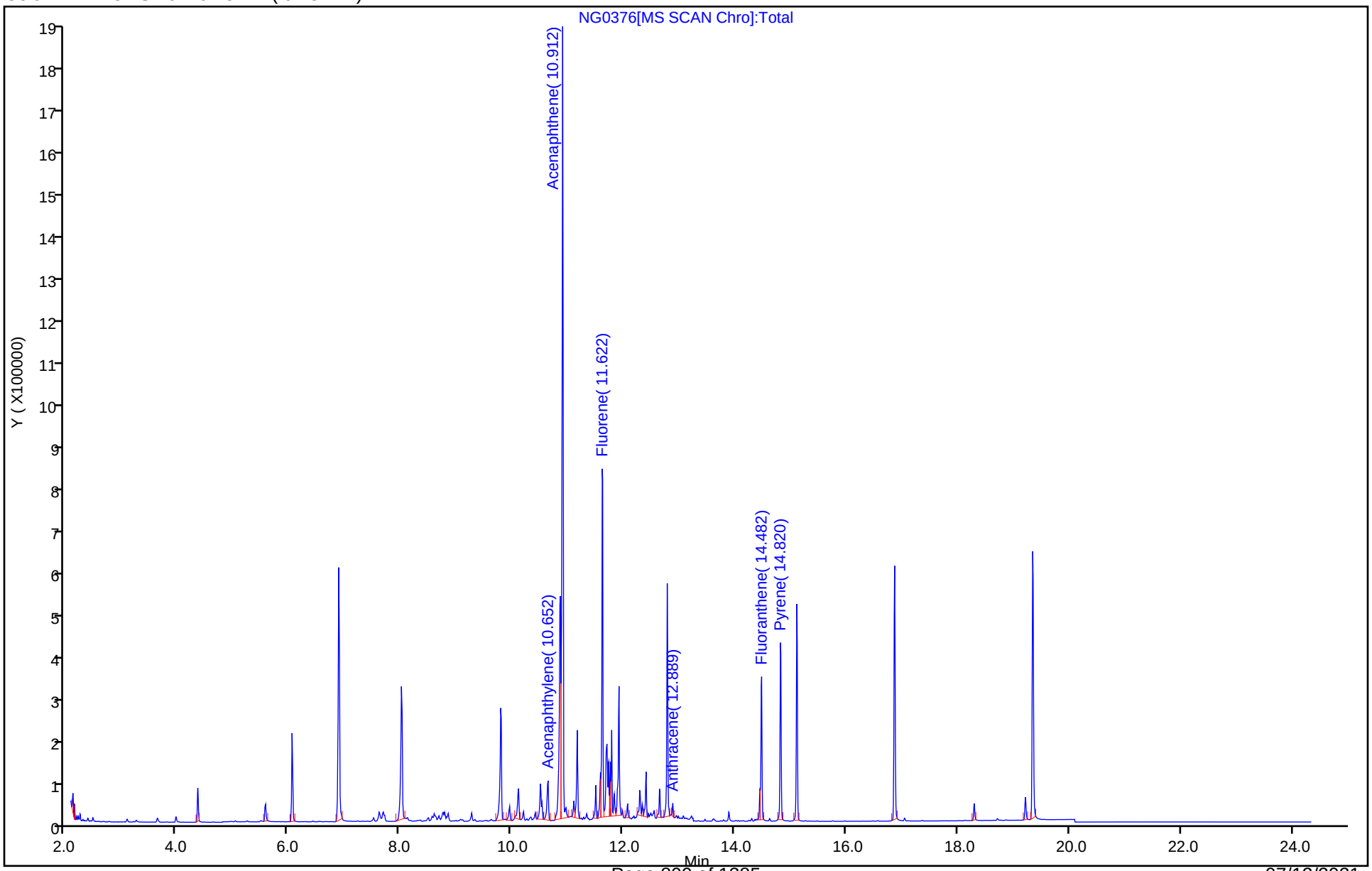
Report Date: 06-Jul-2021 20:01:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0376.D

Injection Date:	06-Jul-2021 08:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-14-A DL	Lab Sample ID:	410-45105-14	Worklist Smp#:	7
Client ID:	MW-4S-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	7
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



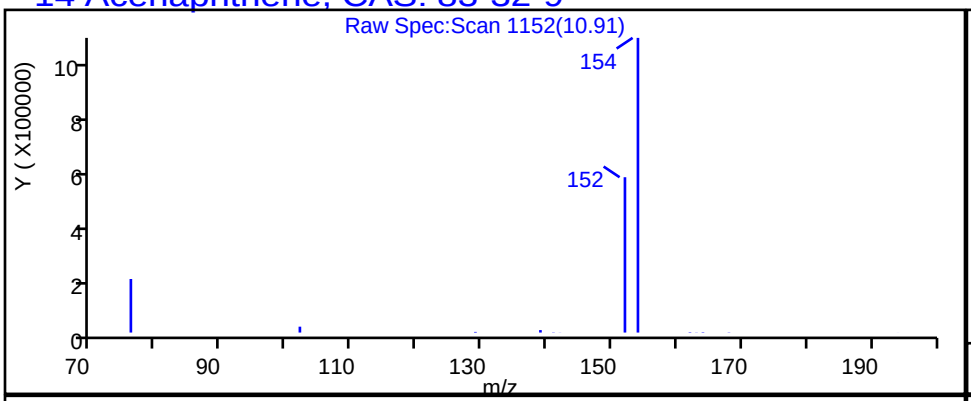
Report Date: 06-Jul-2021 20:01:10 Chrom Revision: 2.3 13-May-2021 07:57:40

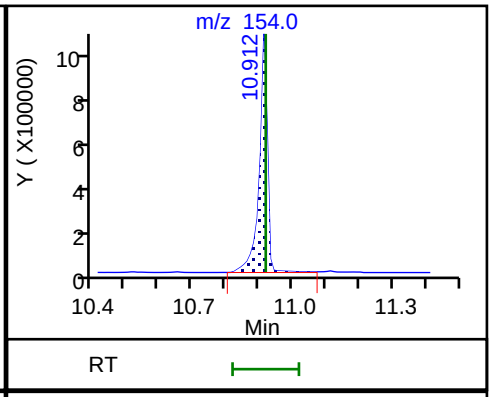
Eurofins Lancaster Laboratories Env, LLC

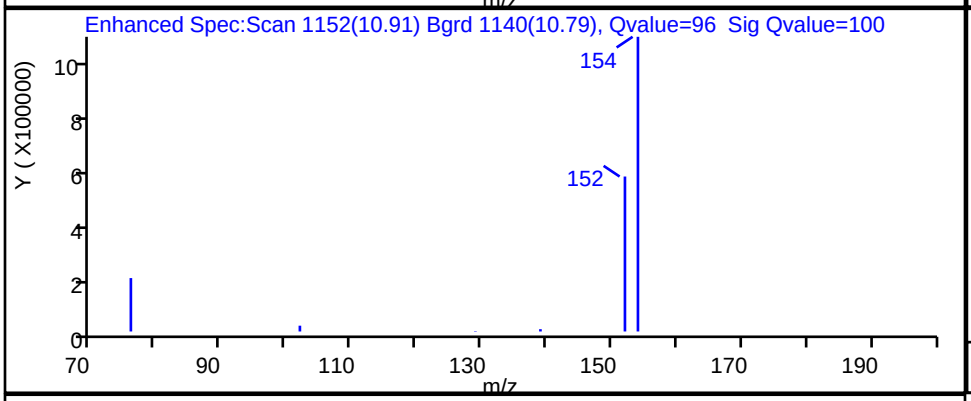
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0376.D

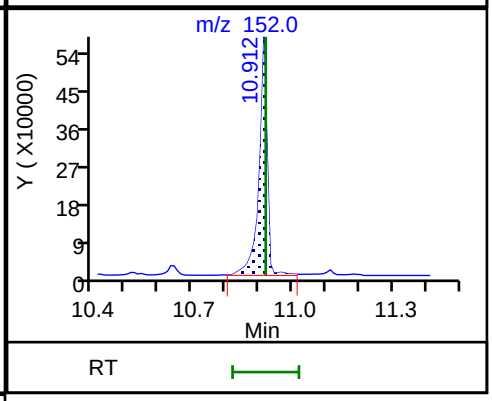
Injection Date:	06-Jul-2021 08:59:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-14-A DL	Lab Sample ID:	410-45105-14
Client ID:	MW-4S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

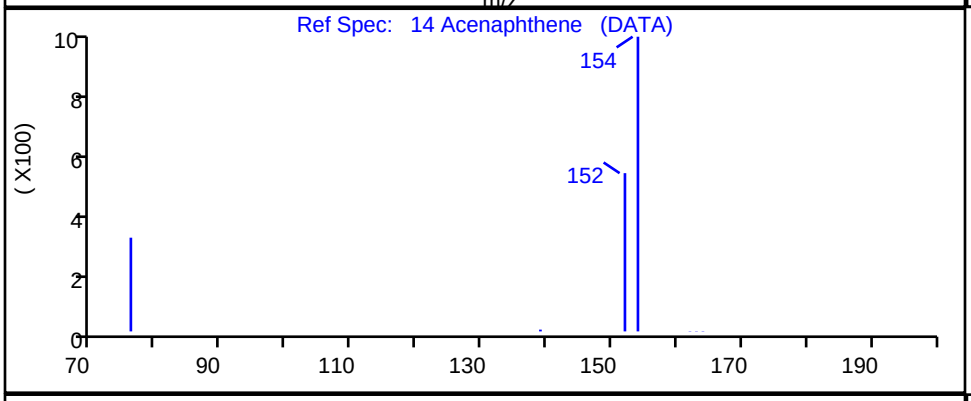
14 Acenaphthene, CAS: 83-32-9

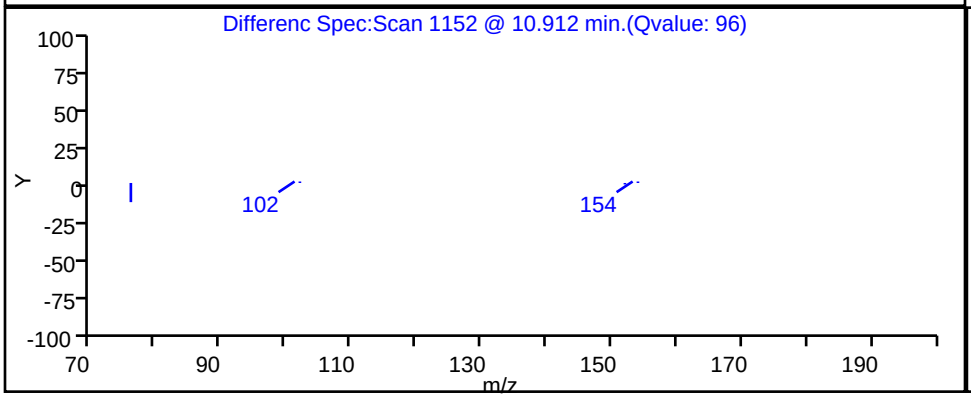


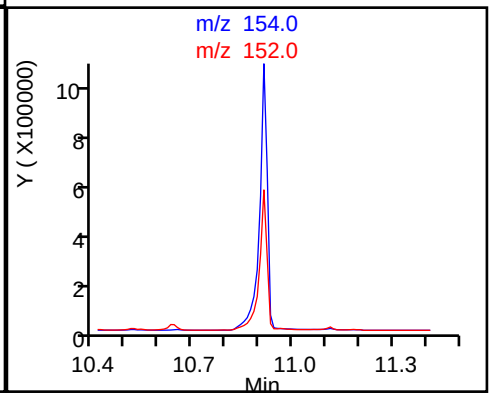












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-4D-20210624 Lab Sample ID: 410-45105-15

Matrix: Groundwater Lab File ID: NG0377.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 09:33

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 243.1(mL) Date Analyzed: 07/06/2021 09:29

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.021
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	0.016	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	50		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		36-111
93951-69-0	Fluoranthene-d10 (Surr)	85		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0377.D
Lims ID: 410-45105-A-15-A
Client ID: MW-4D-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 09:29:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-15-A
Misc. Info.: 410-0033556-008
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:39:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.066	6.053	0.013	97	192573	0.2500	
* 5 Naphthalene-d8	136	8.028	8.027	0.001	100	662239	0.2500	
6 Naphthalene	128	8.053	8.052	0.001	100	16277	0.005965	M
$ 9 1-Methylnaphthalene-d10	152	9.286	9.286	0.000	98	267039	0.1893	
12 Acenaphthylene	152	10.638	10.638	0.000	68	2967	0.001025	7M
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	95	376346	0.2500	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	672005	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	97	587447	0.2124	
25 Fluoranthene	202	14.477	14.484	-0.007	95	7386	0.002325	
26 Pyrene	202	14.822	14.828	-0.006	95	14939	0.004009	M
* 29 Chrysene-d12	240	16.871	16.870	0.001	81	738517	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.217	19.225	-0.008	96	401094	0.1254	
* 38 Perylene-d12	264	19.348	19.355	-0.007	95	866439	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

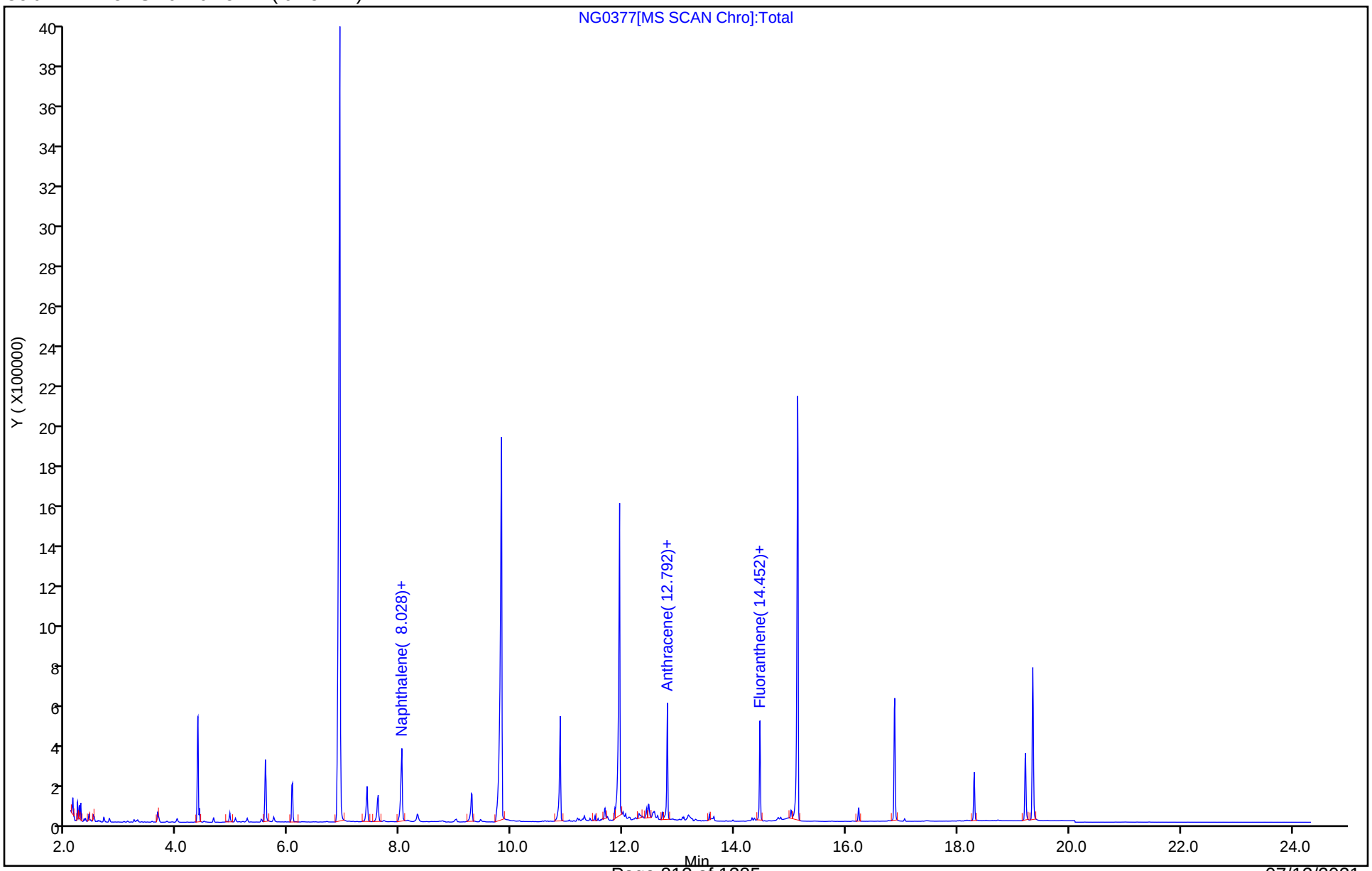
Report Date: 06-Jul-2021 20:01:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0377.D

Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15	Worklist Smp#:	8
Client ID:	MW-4D-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



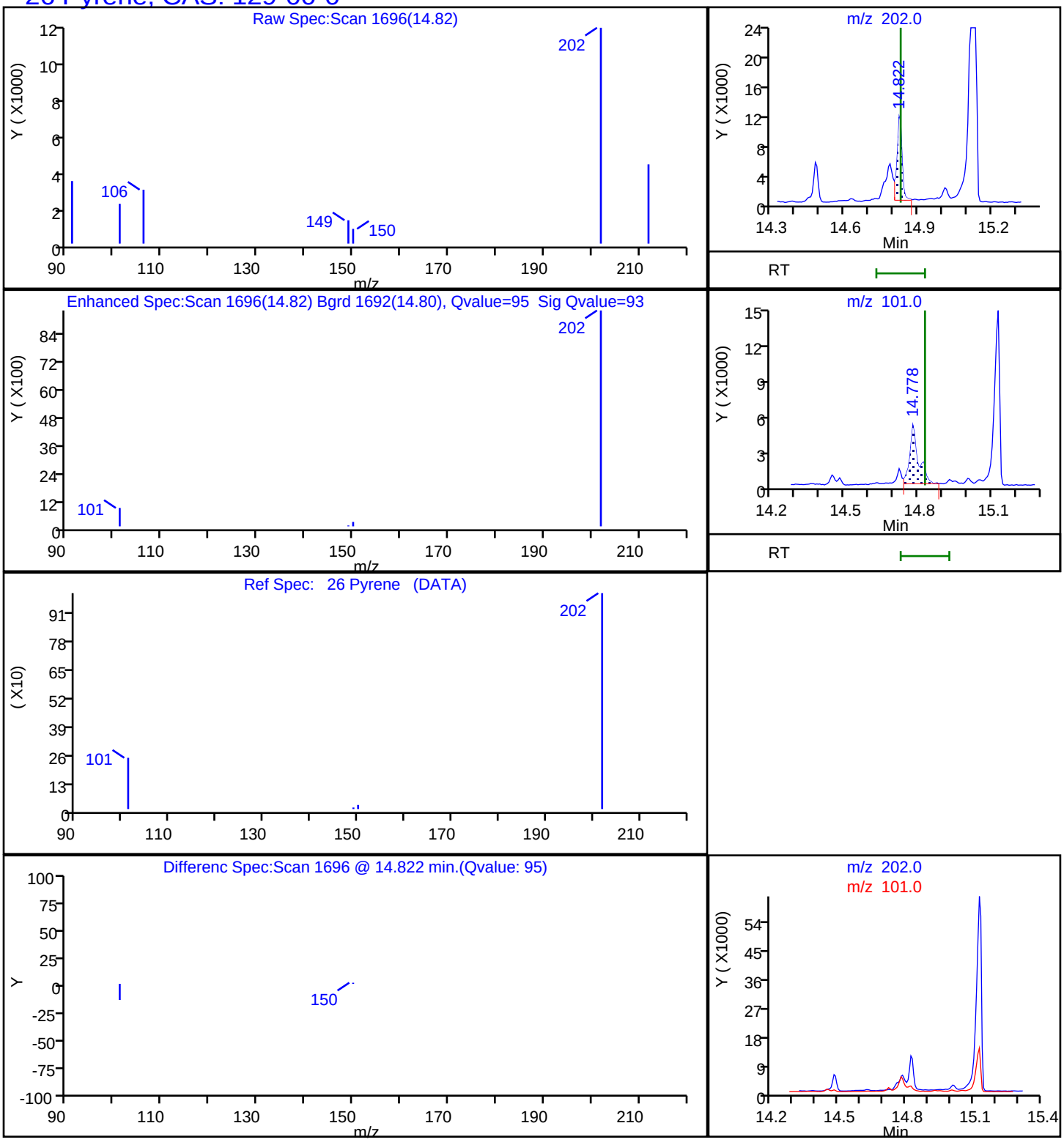
Report Date: 06-Jul-2021 20:01:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0377.D

Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15
Client ID:	MW-4D-20210624		
Operator ID:	jmg00346	ALS Bottle#:	8 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



Eurofins Lancaster Laboratories Env, LLC

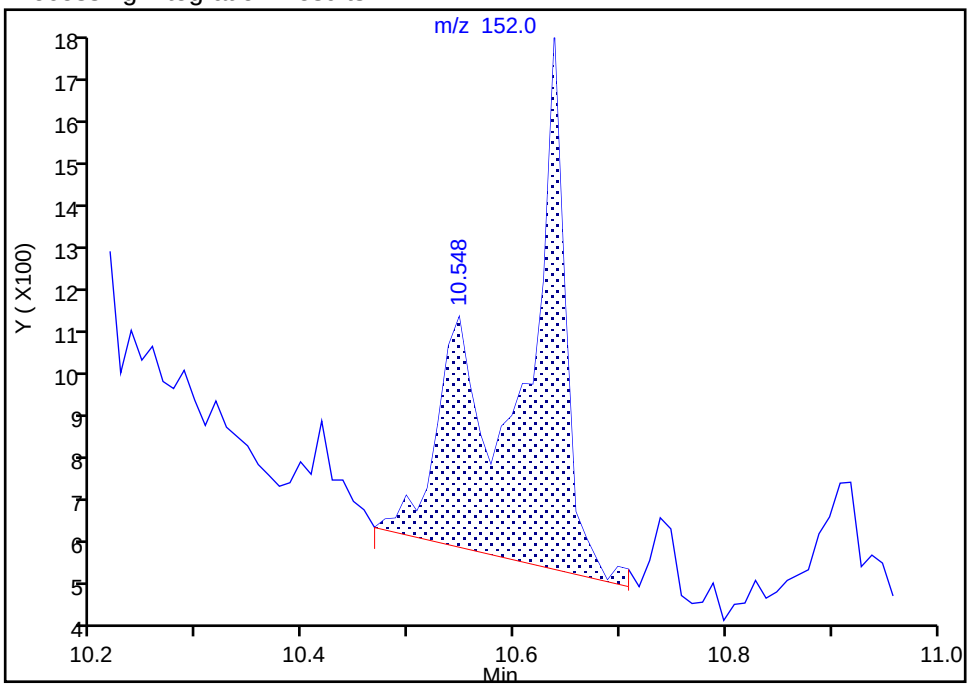
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0377.D				
Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15		
Client ID:	MW-4D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

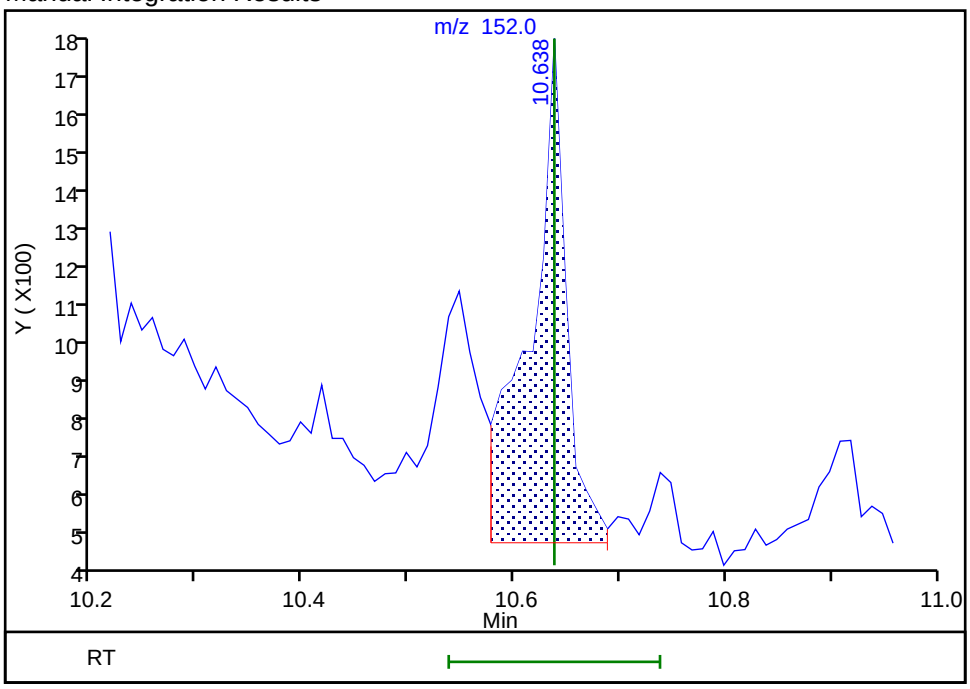
Processing Integration Results

RT: 10.55
Area: 3974
Amount: 0.001372
Amount Units: ug/ml



Manual Integration Results

RT: 10.64
Area: 2967
Amount: 0.001025
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:38:19
Audit Action: Manually Integrated Audit Reason: Baseline

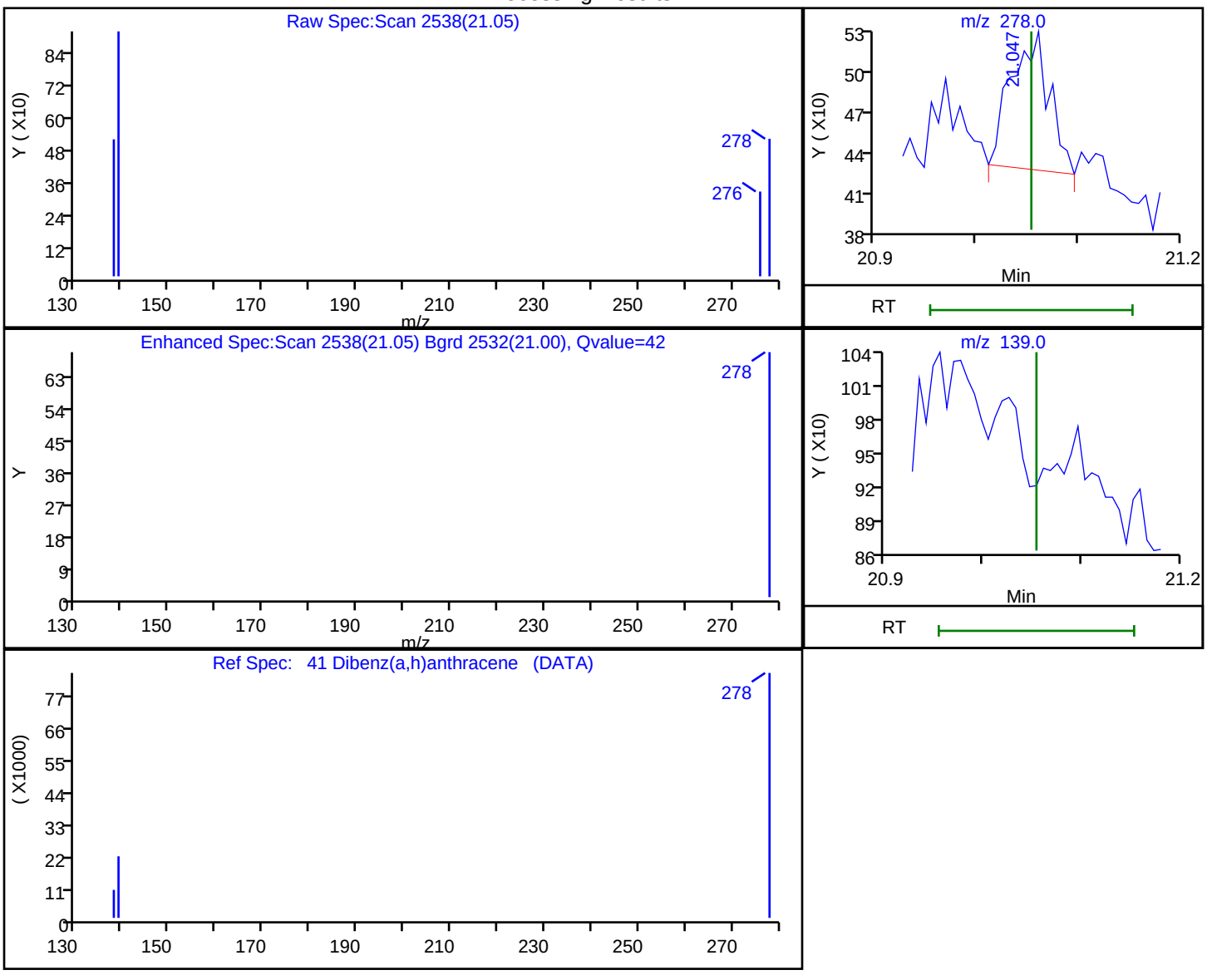
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0377.D				
Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15		
Client ID:	MW-4D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.05	278.00	257	0.006737
21.05	139.00	0	

Reviewer: transuea, 06-Jul-2021 19:38:59

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

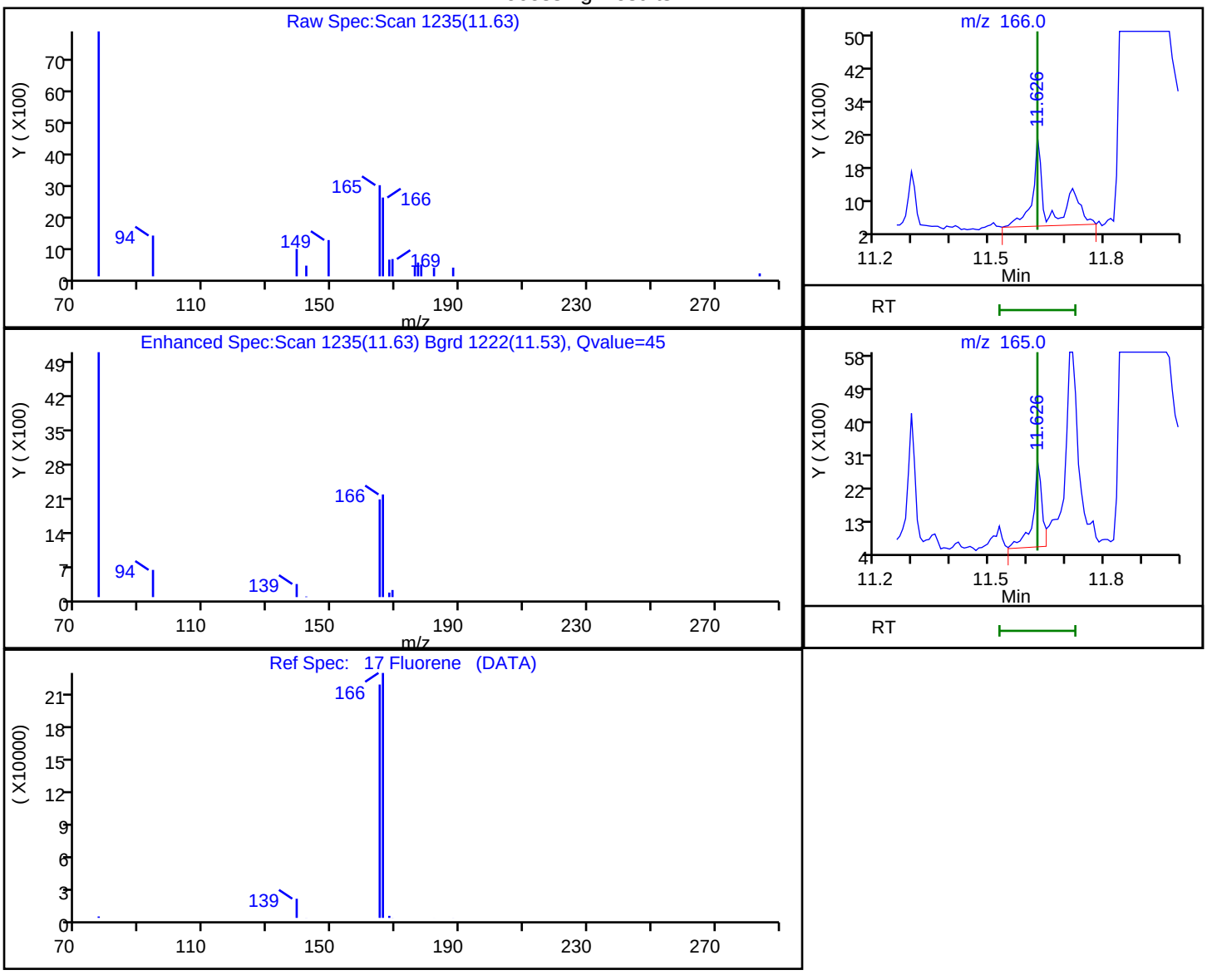
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0377.D				
Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15		
Client ID:	MW-4D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
11.63	166.00	6027	0.002793
11.63	165.00	3841	

Reviewer: transuea, 06-Jul-2021 19:38:28

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

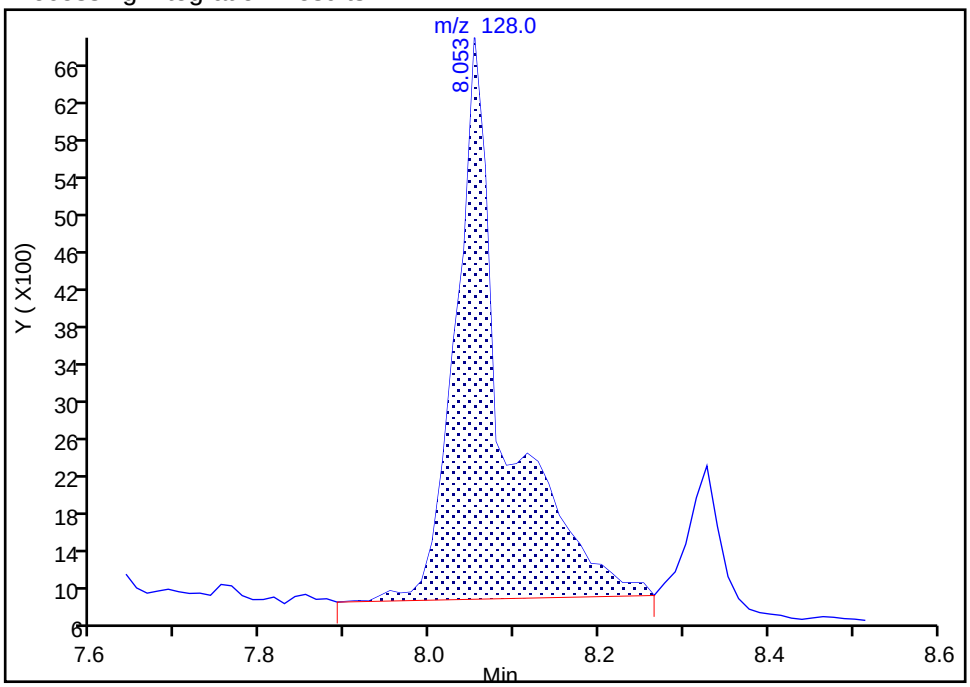
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Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15		
Client ID:	MW-4D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

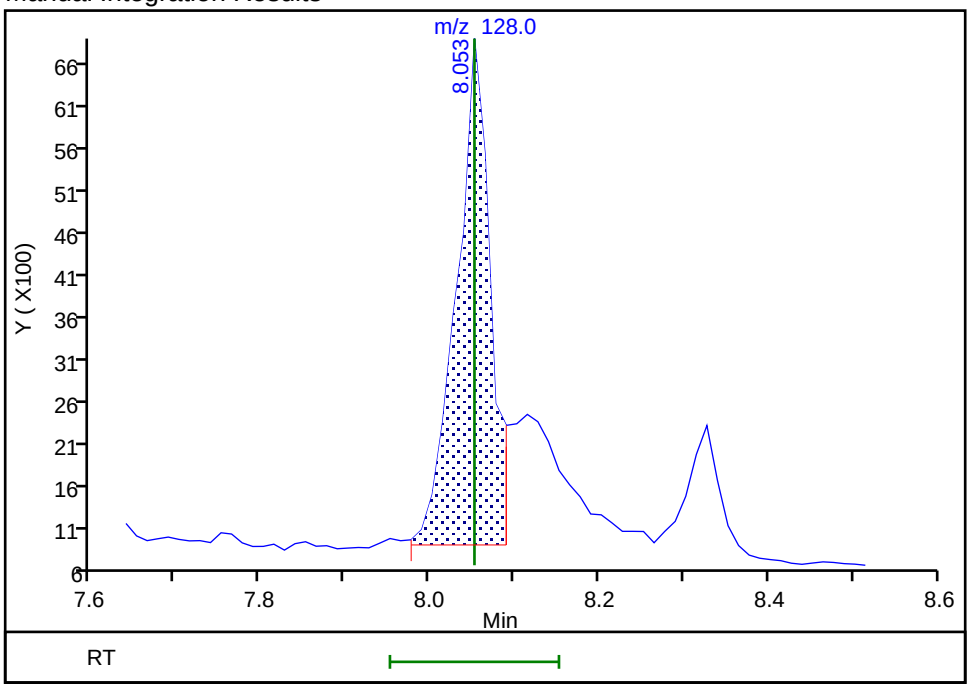
Processing Integration Results

RT: 8.05
Area: 24031
Amount: 0.008806
Amount Units: ug/ml



Manual Integration Results

RT: 8.05
Area: 16277
Amount: 0.005965
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:38:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

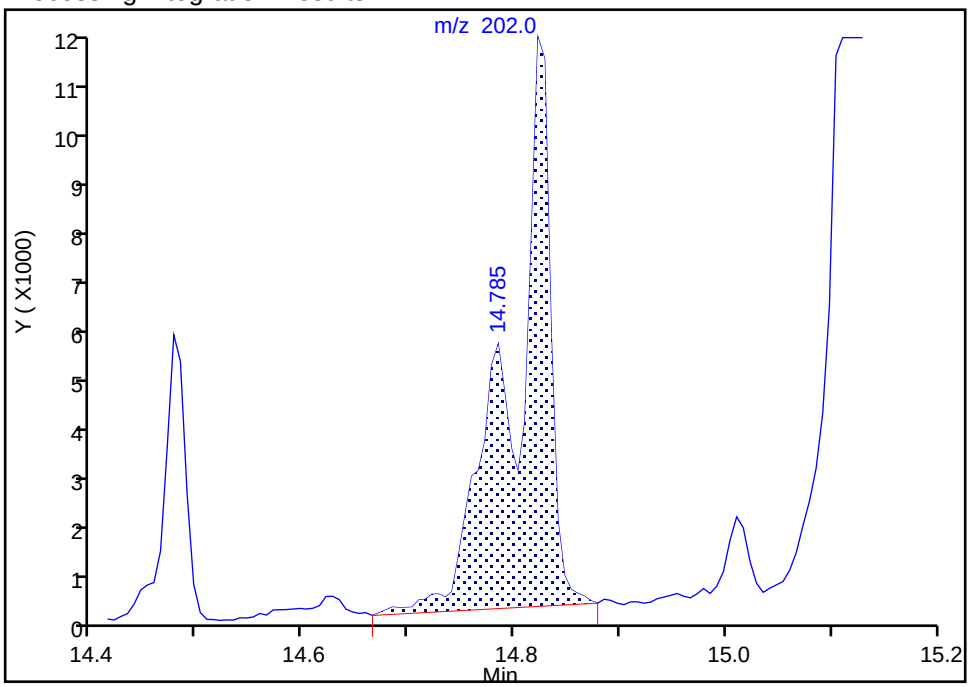
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Injection Date:	06-Jul-2021 09:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-15-A	Lab Sample ID:	410-45105-15		
Client ID:	MW-4D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

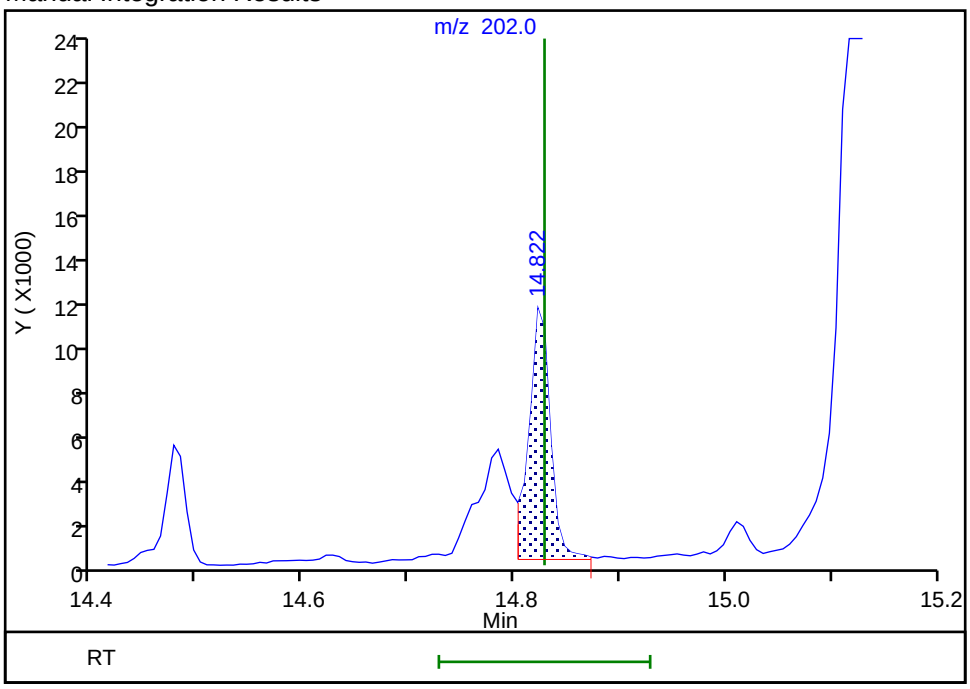
Processing Integration Results

RT: 14.78
Area: 26204
Amount: 0.007033
Amount Units: ug/ml



Manual Integration Results

RT: 14.82
Area: 14939
Amount: 0.004009
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:38:51

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-3-20210624 Lab Sample ID: 410-45105-16

Matrix: Groundwater Lab File ID: NG0378.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 10:14

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 243.6(mL) Date Analyzed: 07/06/2021 09:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	4.1		0.051	0.010
120-12-7	Anthracene	1.1		0.051	0.010
56-55-3	Benzo[a]anthracene	1.2		0.051	0.010
50-32-8	Benzo[a]pyrene	0.024	J	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.017	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	0.74		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	0.030	J	0.051	0.021
86-73-7	Fluorene	5.9		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
85-01-8	Phenanthrene	6.5		0.072	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	70		36-111
93951-69-0	Fluoranthene-d10 (Surr)	104		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D
Lims ID: 410-45105-A-16-A
Client ID: MW-3-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 09:59:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-16-A
Misc. Info.: 410-0033556-009
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:41:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.053	0.025	92	191954	0.2500	
* 5 Naphthalene-d8	136	8.028	8.027	0.001	10	644591	0.2500	
6 Naphthalene	128	8.040	8.052	-0.012	98	32597724	12.3	EeM
$ 9 1-Methylnaphthalene-d10	152	9.286	9.286	0.000	97	238914	0.1740	
12 Acenaphthylene	152	10.638	10.638	0.000	98	2610022	1.01	M
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	90	336736	0.2500	M
14 Acenaphthene	154	10.918	10.918	0.000	96	10721158	7.14	E
17 Fluorene	166	11.633	11.625	0.007	99	2755359	1.43	M
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	538844	0.2500	M
21 Phenanthrene	178	12.823	12.822	0.001	100	3884791	1.59	
22 Anthracene	178	12.892	12.884	0.008	99	581690	0.2711	
$ 24 Fluoranthene-d10 (Surr)	212	14.459	14.458	0.007	95	575362	0.2595	
25 Fluoranthene	202	14.490	14.484	0.006	94	7517212	2.95	EM
26 Pyrene	202	14.835	14.828	0.007	96	10745073	2.89	E
28 Benzo[a]anthracene	228	16.855	16.855	0.000	99	1075047	0.2964	M
* 29 Chrysene-d12	240	16.878	16.870	0.008	87	736400	0.2500	M
30 Chrysene	228	16.917	16.917	0.001	100	619873	0.1814	
33 Benzo[b]fluoranthene	252	18.734	18.734	0.007	99	18932	0.004235	
34 Benzo[k]fluoranthene	252	18.773	18.773	0.000	99	9221	0.002087	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.225	19.225	0.000	96	659940	0.1902	
37 Benzo[a]pyrene	252	19.264	19.263	0.001	99	22252	0.005726	M
* 38 Perylene-d12	264	19.356	19.355	0.001	95	940084	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.004	21.004	0.000	94	5471	0.001740	M
41 Dibenz(a,h)anthracene	278	21.054	21.053	0.000	76	2246	0.007256	M
42 Benzo[g,h,i]perylene	276	21.435	21.435	0.000	93	5581	0.001455	M

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015	Amount Added:	10.00	Units: uL	Run Reagent

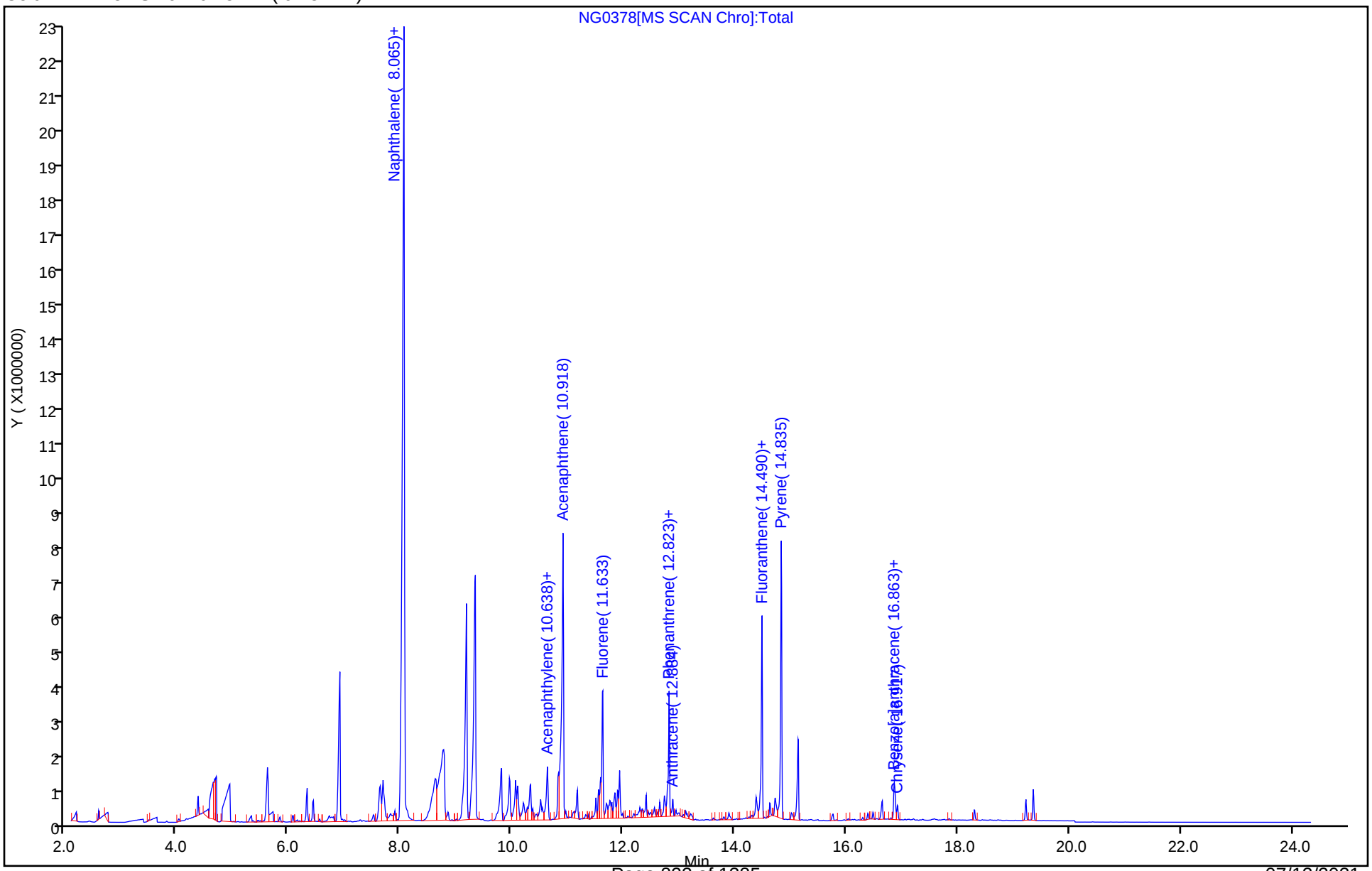
Report Date: 06-Jul-2021 20:01:12 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D

Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16	Worklist Smp#:	9
Client ID:	MW-3-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



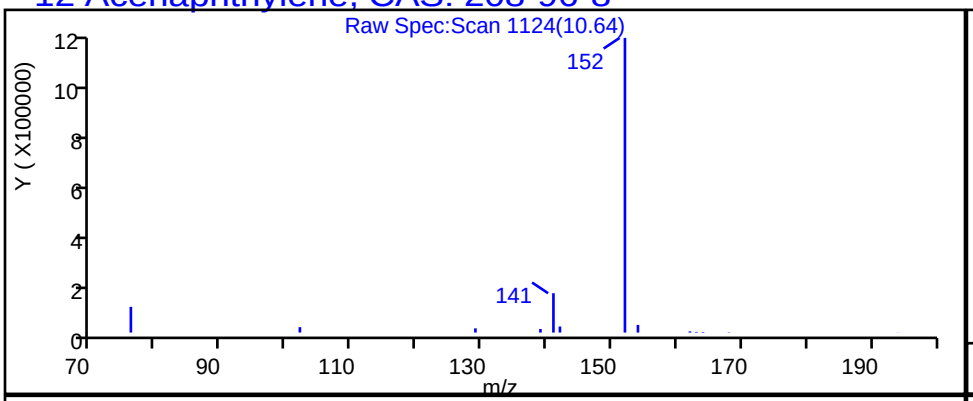
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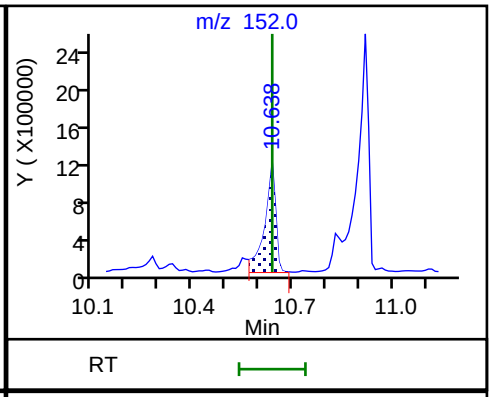
Eurofins Lancaster Laboratories Env, LLC

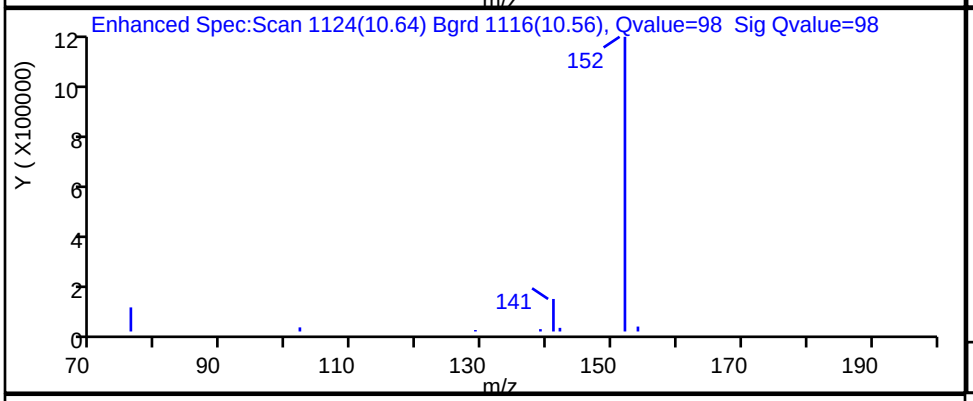
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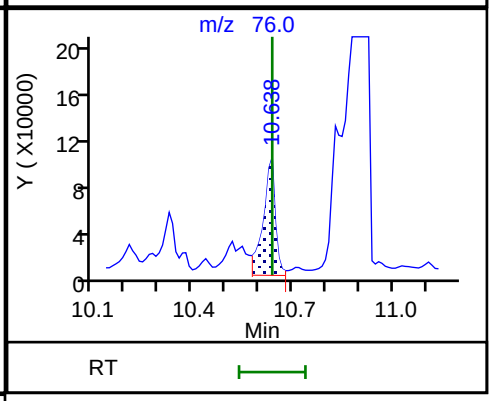
Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

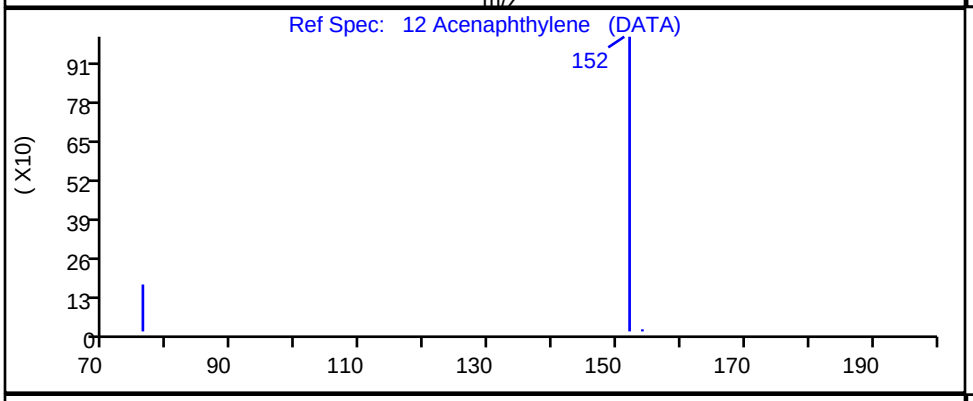
12 Acenaphthylene, CAS: 208-96-8

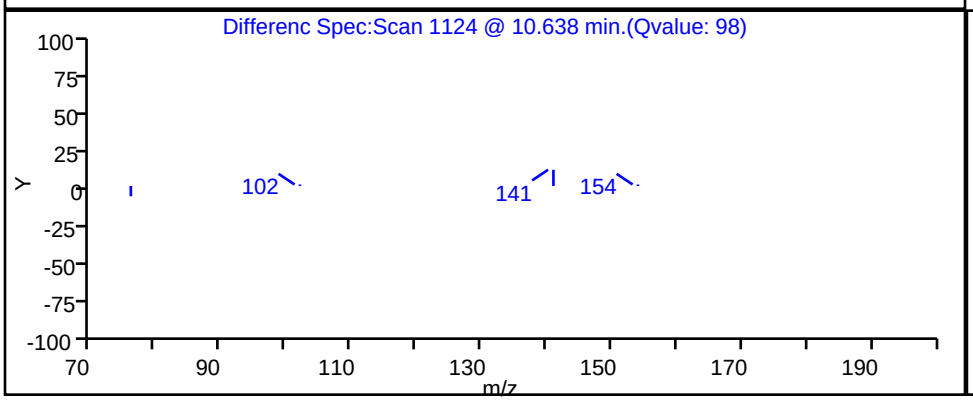


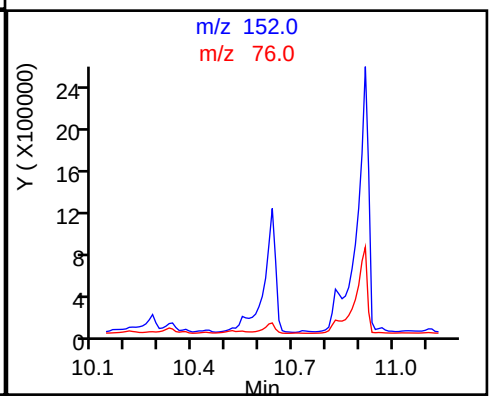








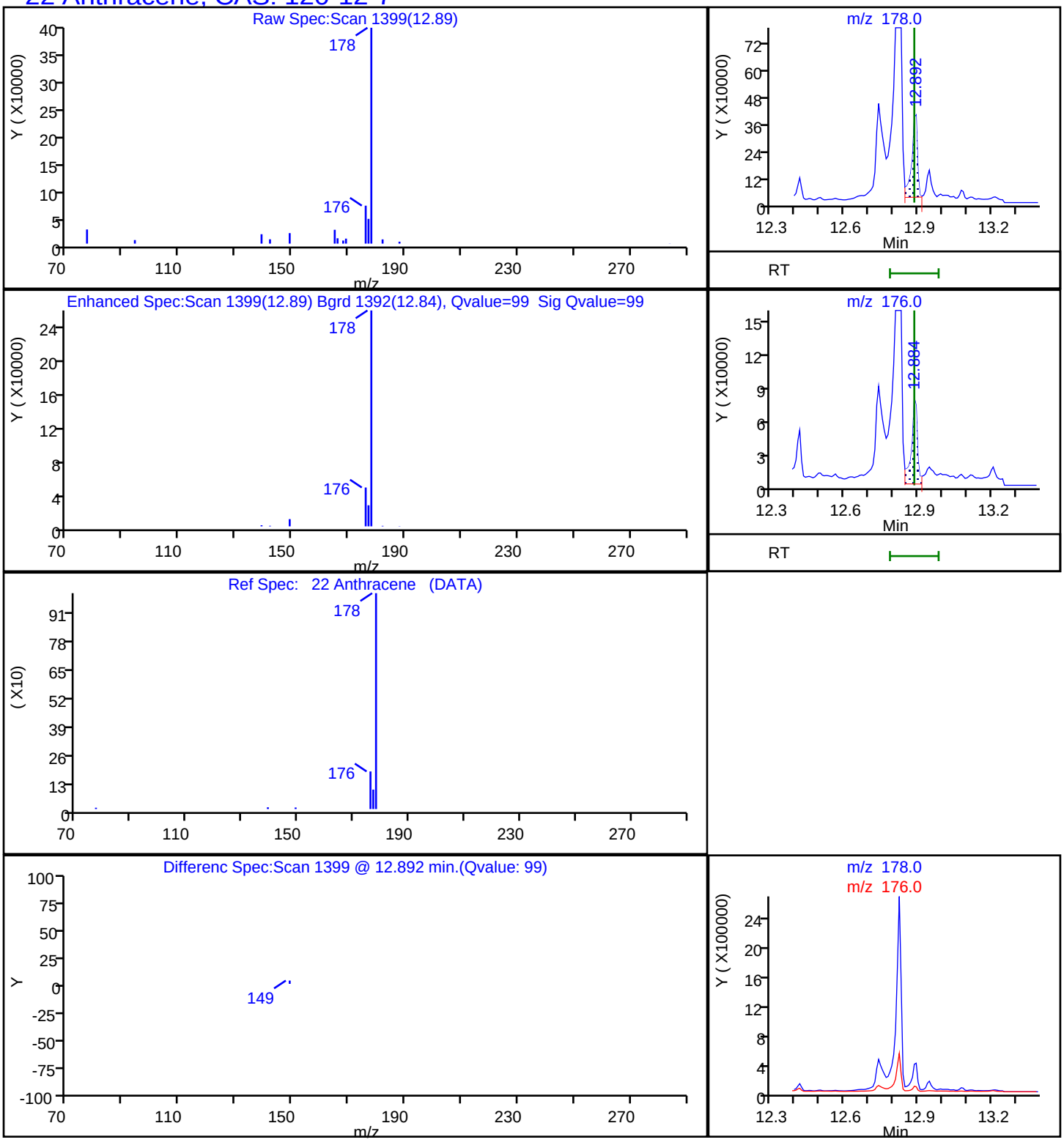




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D		
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16
Client ID:	MW-3-20210624		
Operator ID:	jmg00346	ALS Bottle#:	9 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

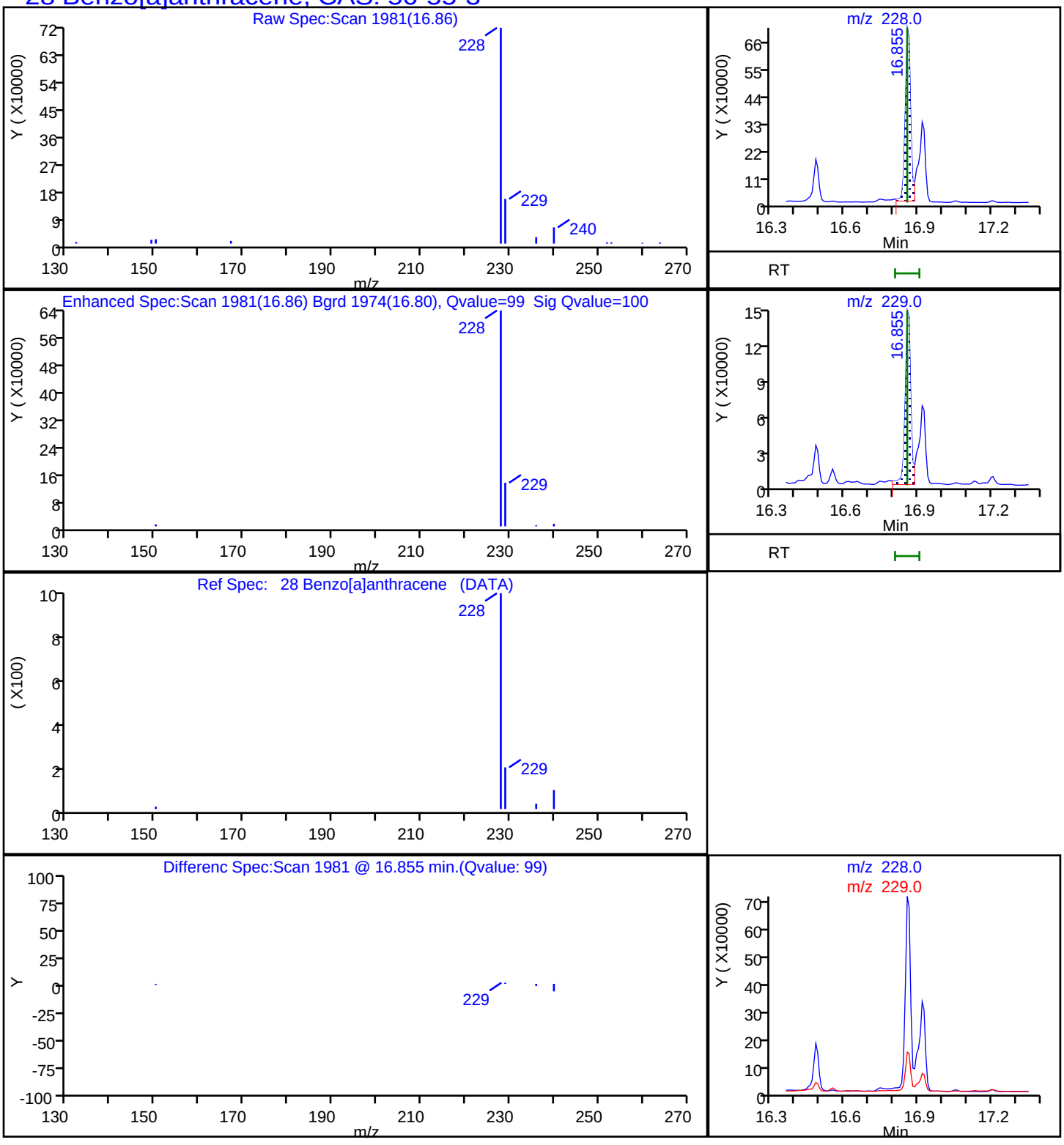
22 Anthracene, CAS: 120-12-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D				
Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

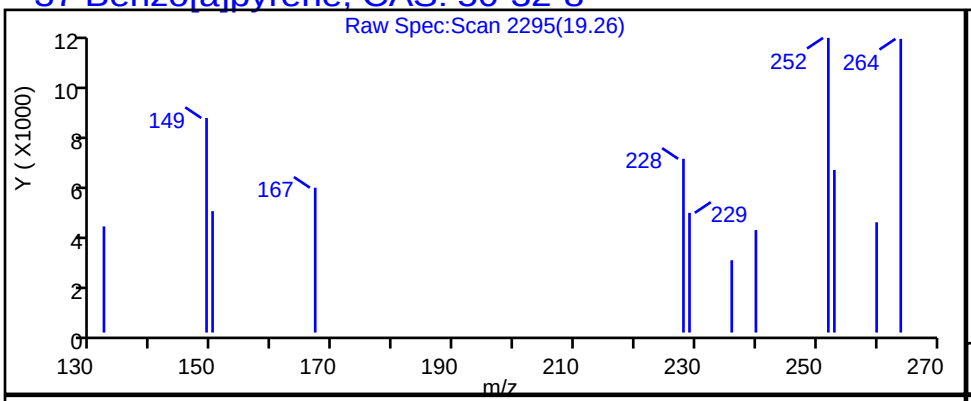
28 Benzo[a]anthracene, CAS: 56-55-3

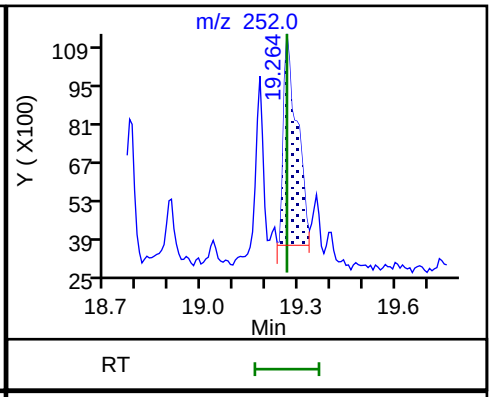


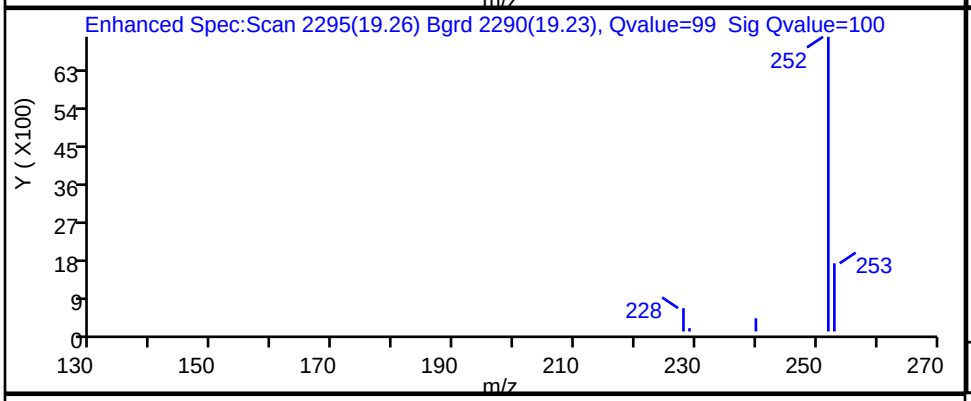
Eurofins Lancaster Laboratories Env, LLC

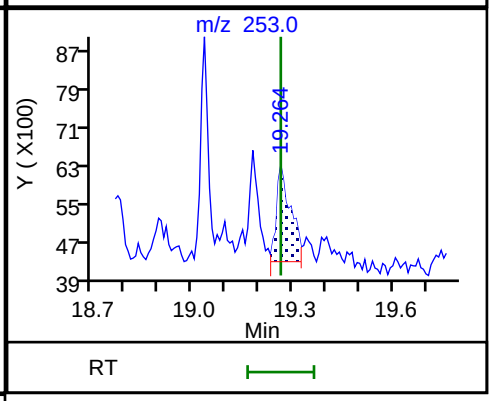
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

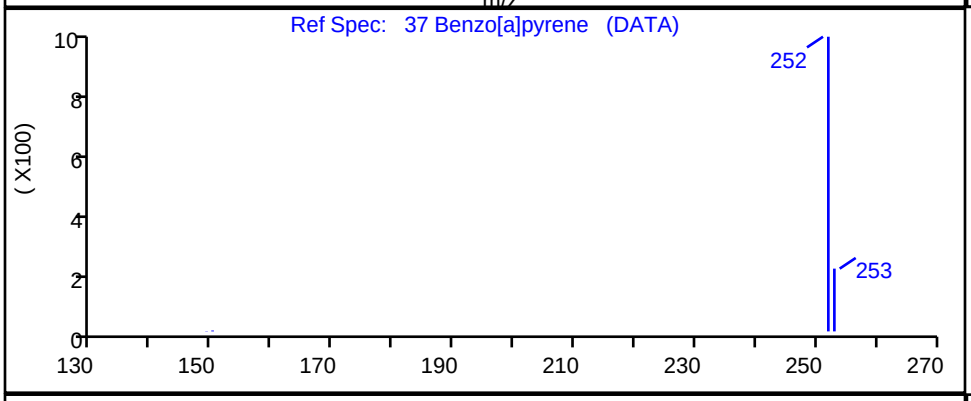
37 Benzo[a]pyrene, CAS: 50-32-8

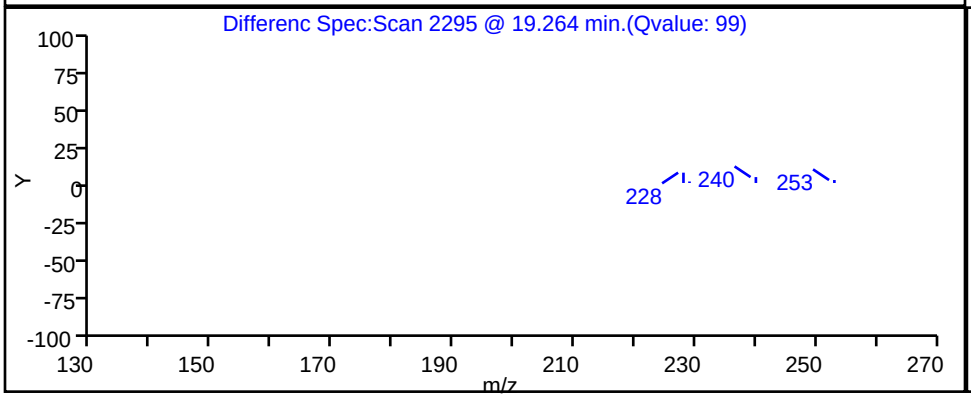


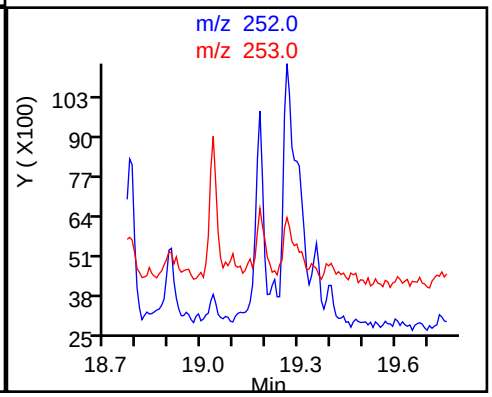








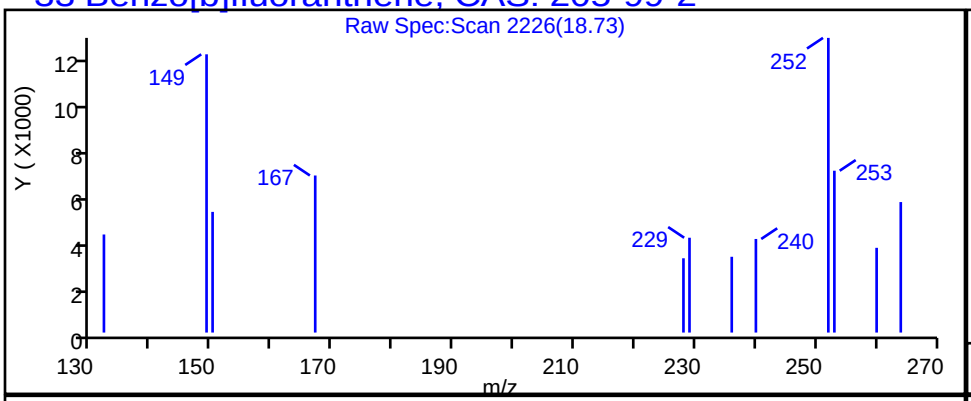


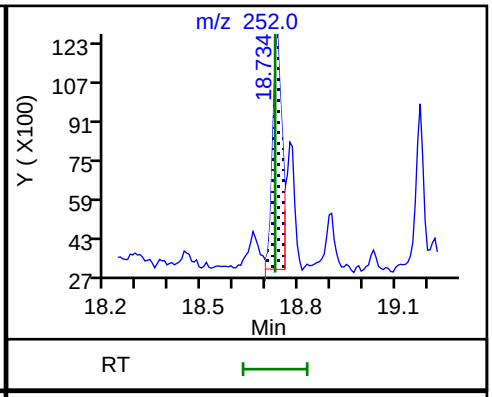


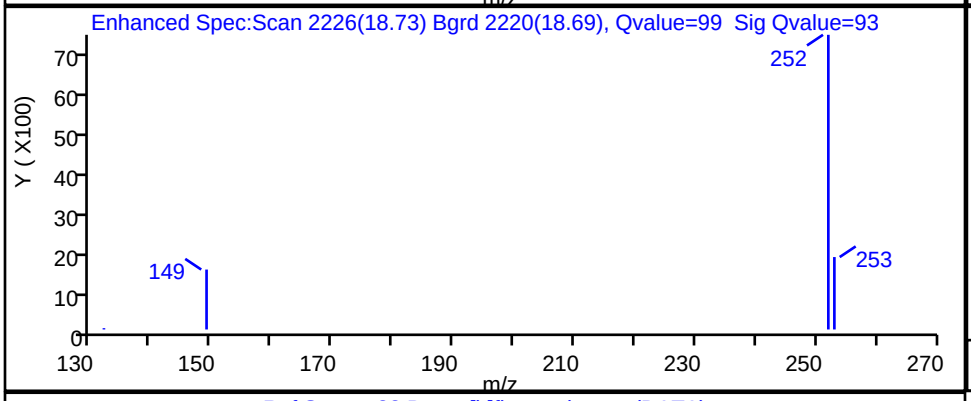
Eurofins Lancaster Laboratories Env, LLC

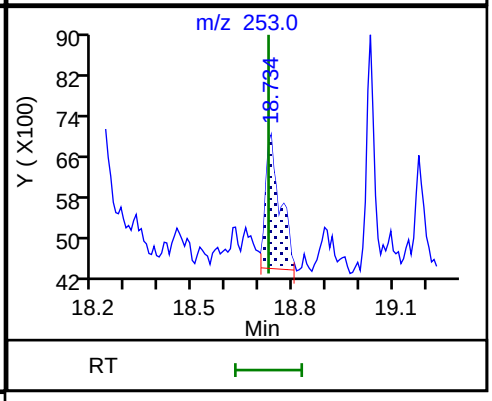
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Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

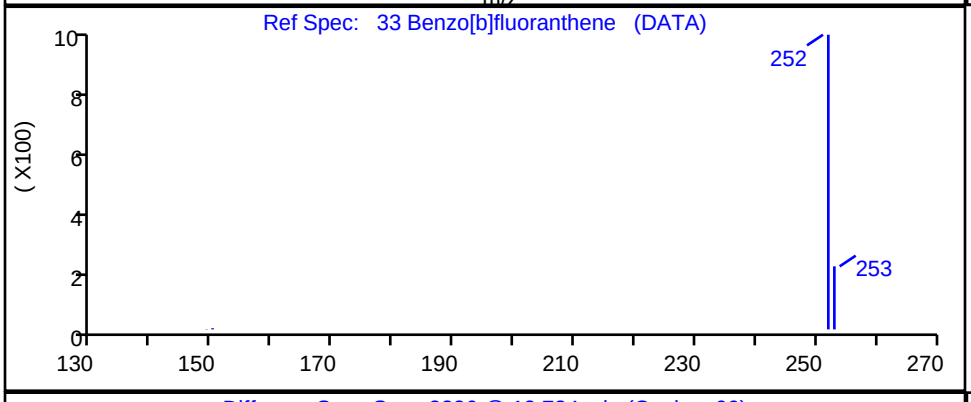
33 Benzo[b]fluoranthene, CAS: 205-99-2

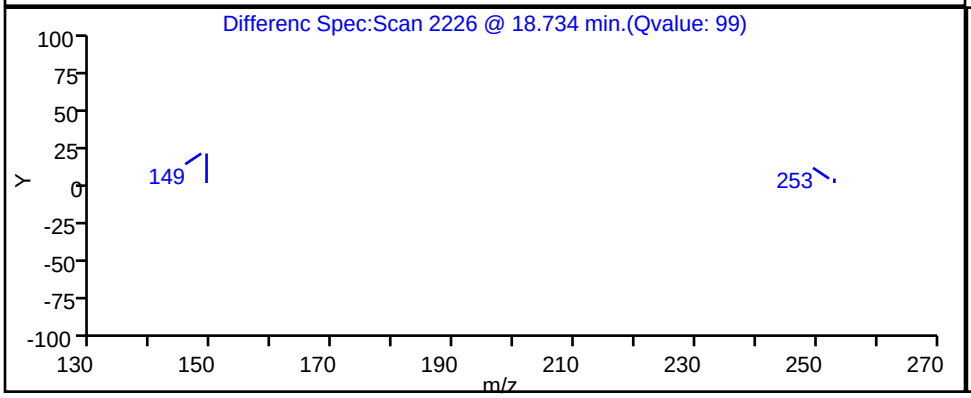


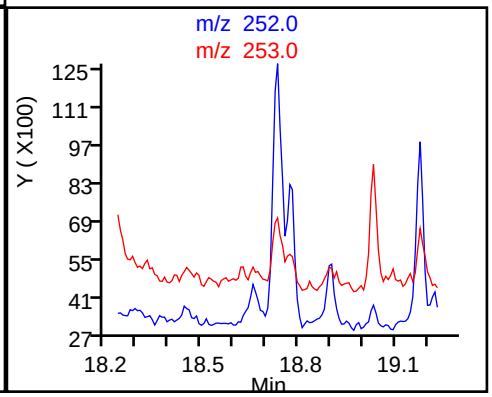












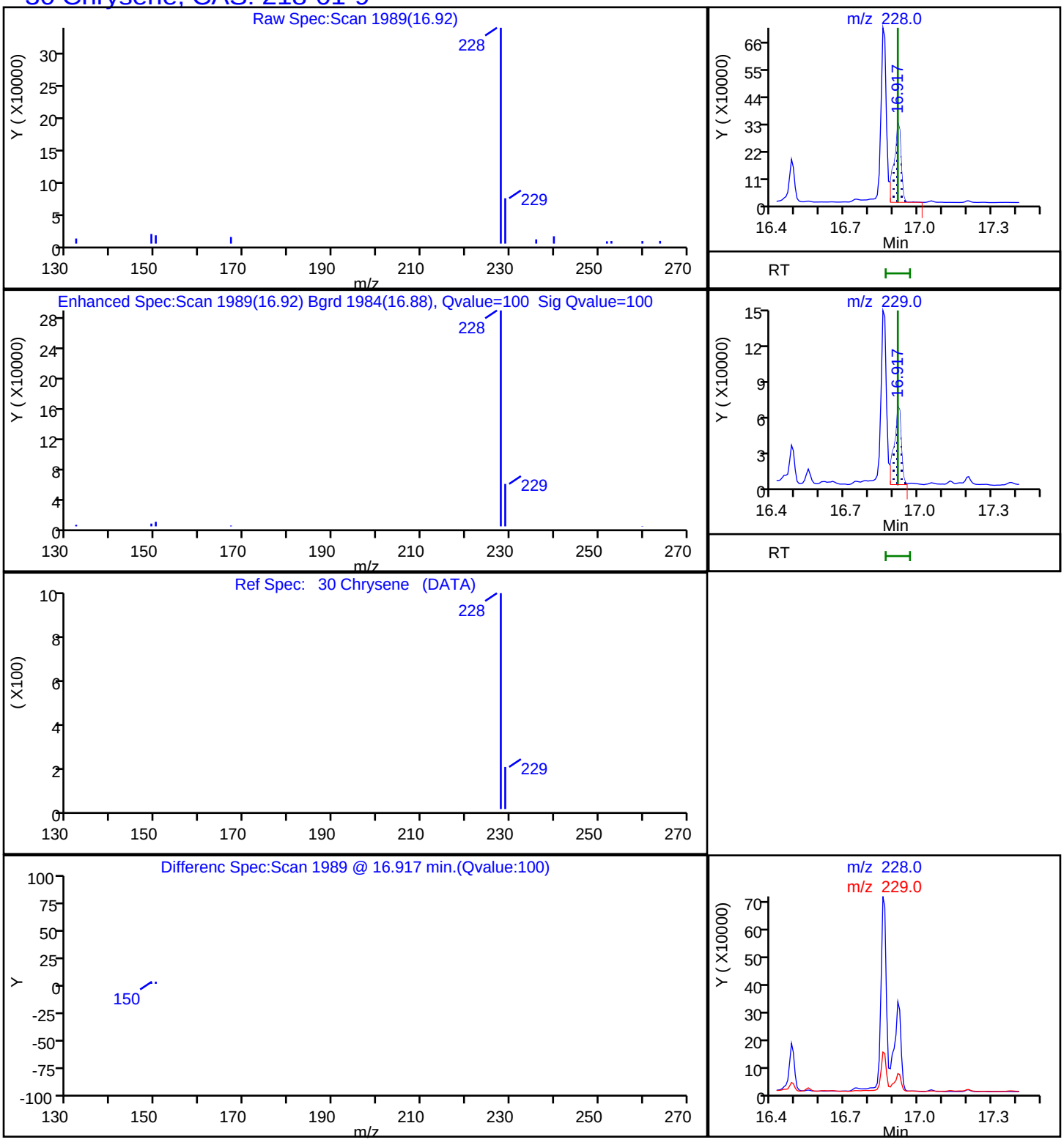
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

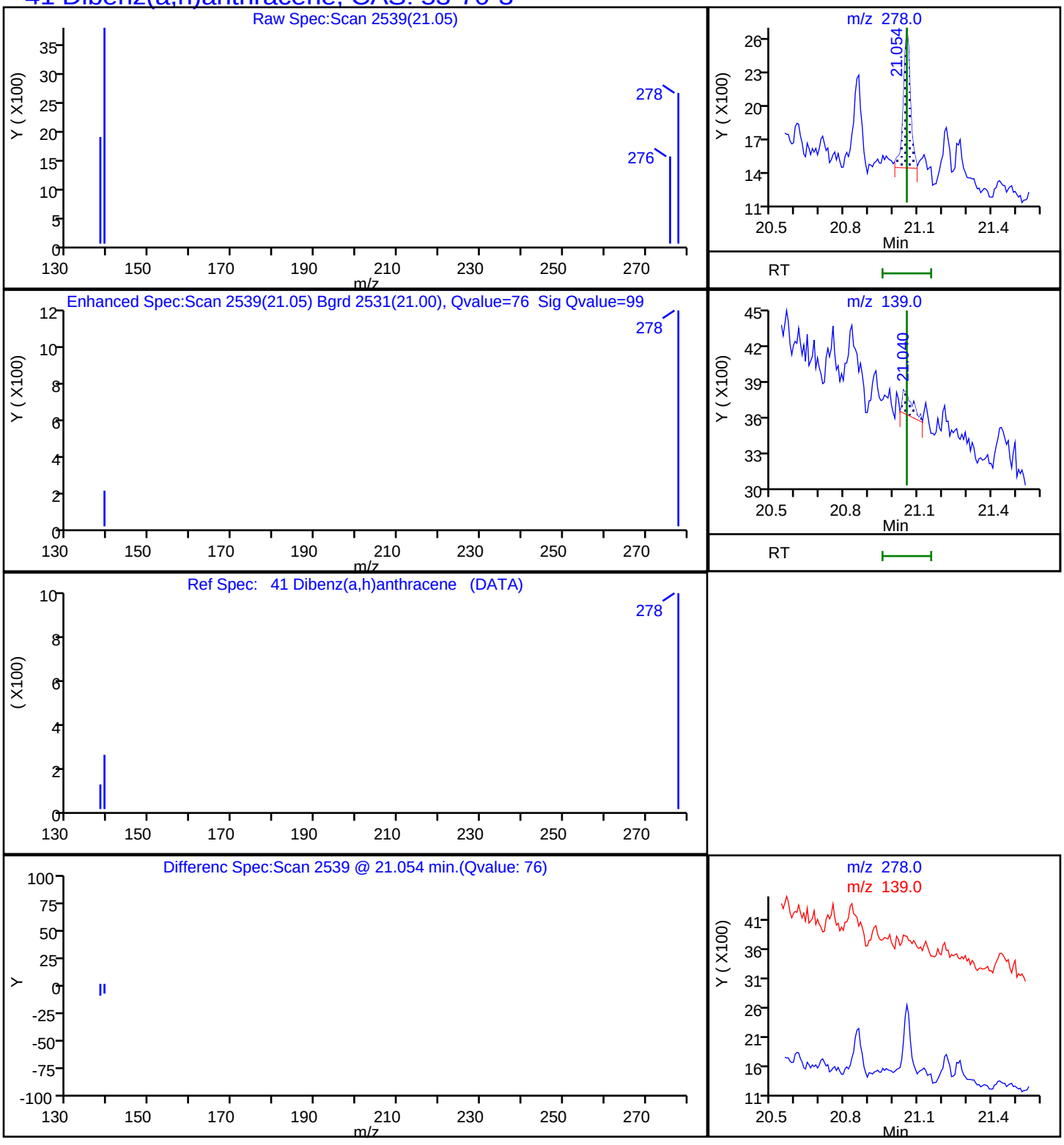
30 Chrysene, CAS: 218-01-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D				
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

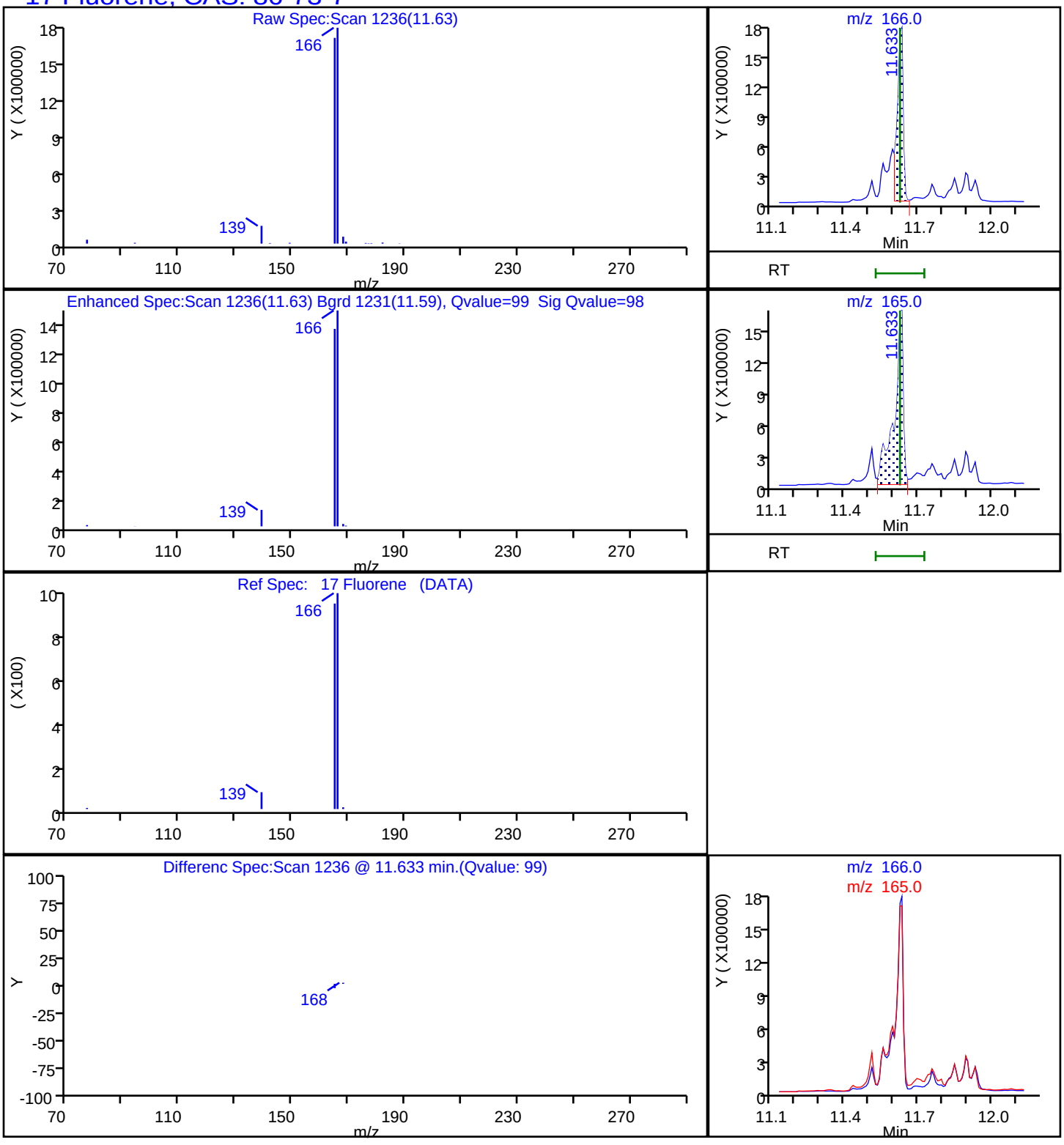
41 Dibenz(a,h)anthracene, CAS: 53-70-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D				
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Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7



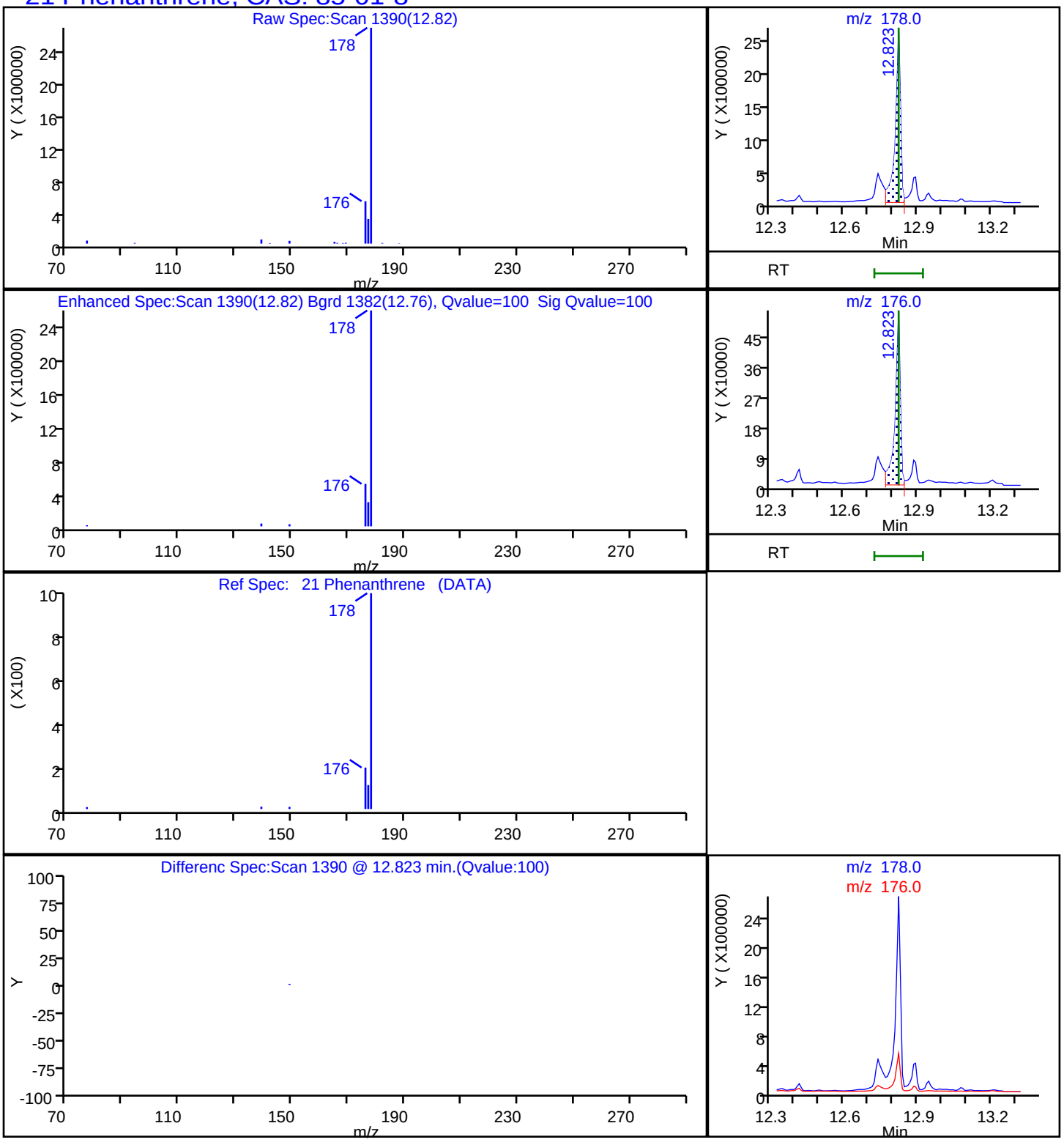
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D

Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

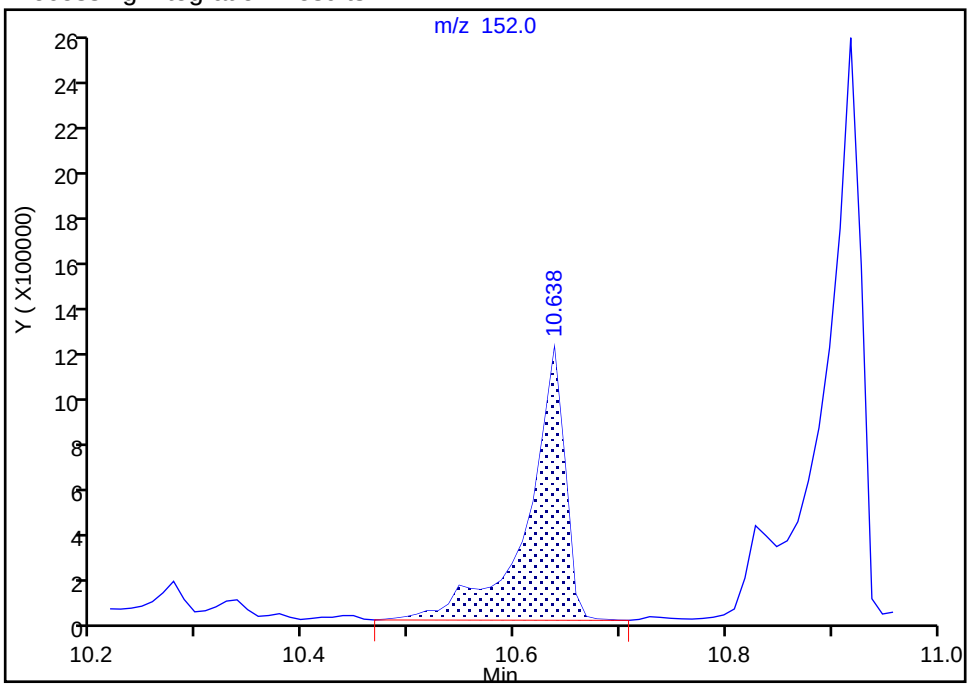
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

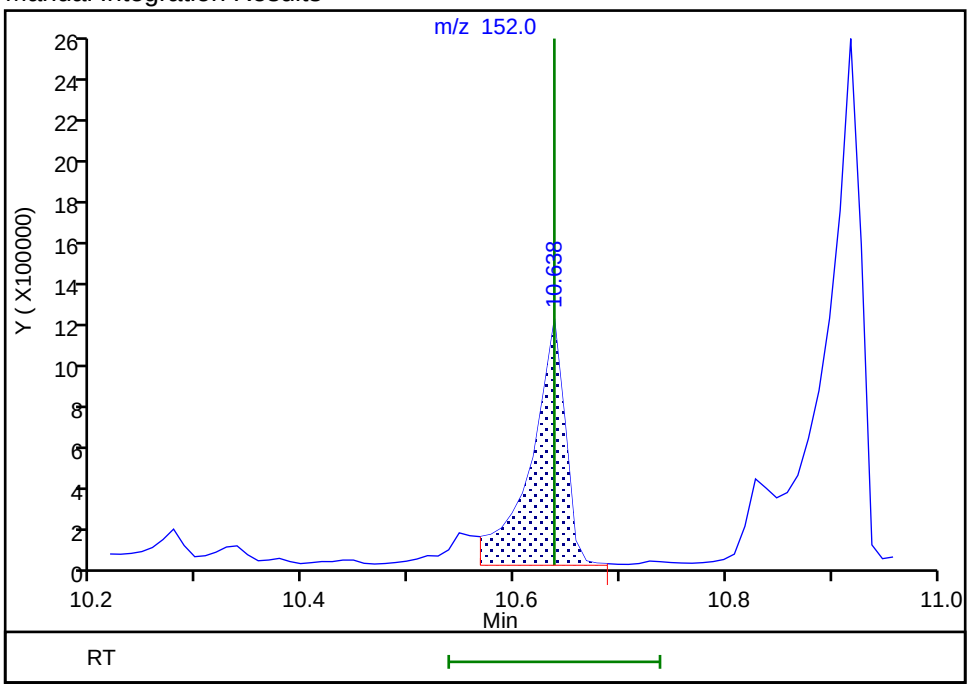
Processing Integration Results

RT: 10.64
Area: 2905898
Amount: 0.973747
Amount Units: ug/ml



Manual Integration Results

RT: 10.64
Area: 2610022
Amount: 1.007426
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:39:34

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

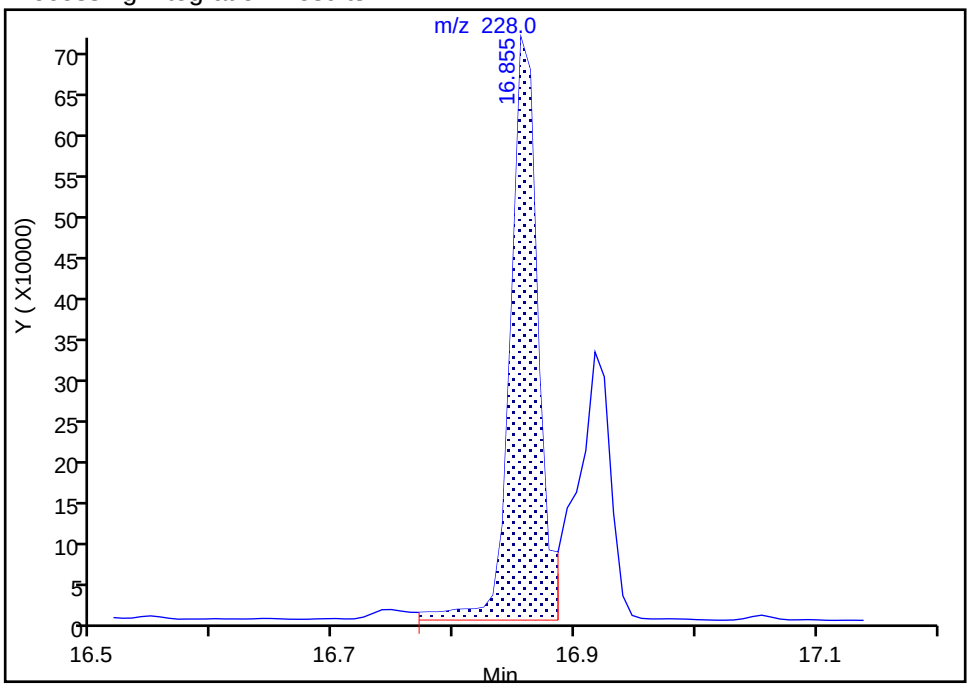
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Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

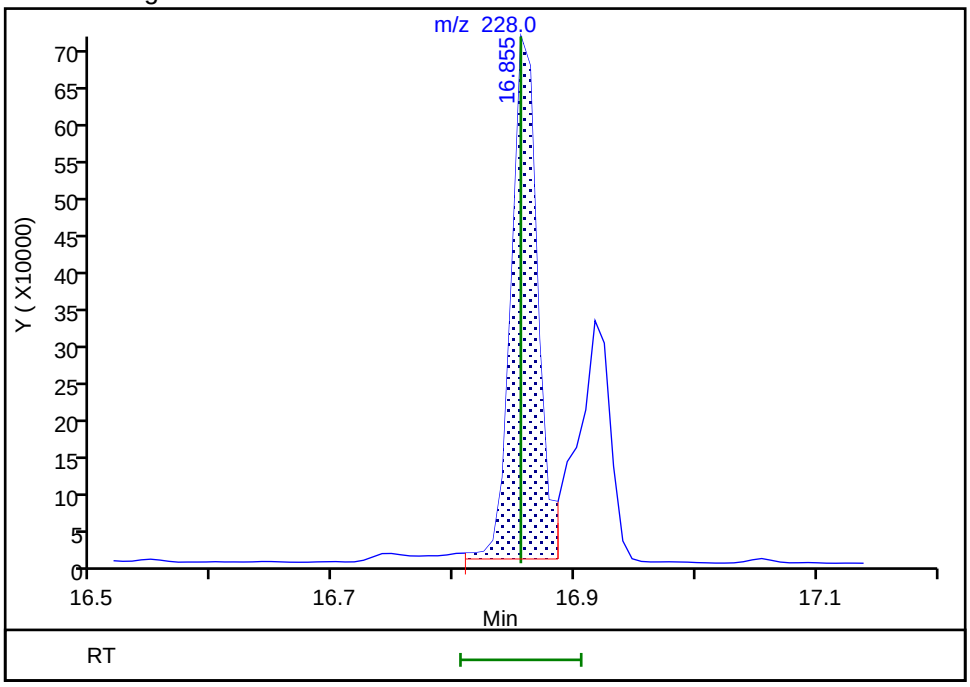
Processing Integration Results

RT: 16.86
Area: 1125120
Amount: 0.298811
Amount Units: ug/ml



Manual Integration Results

RT: 16.86
Area: 1075047
Amount: 0.296421
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:40:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

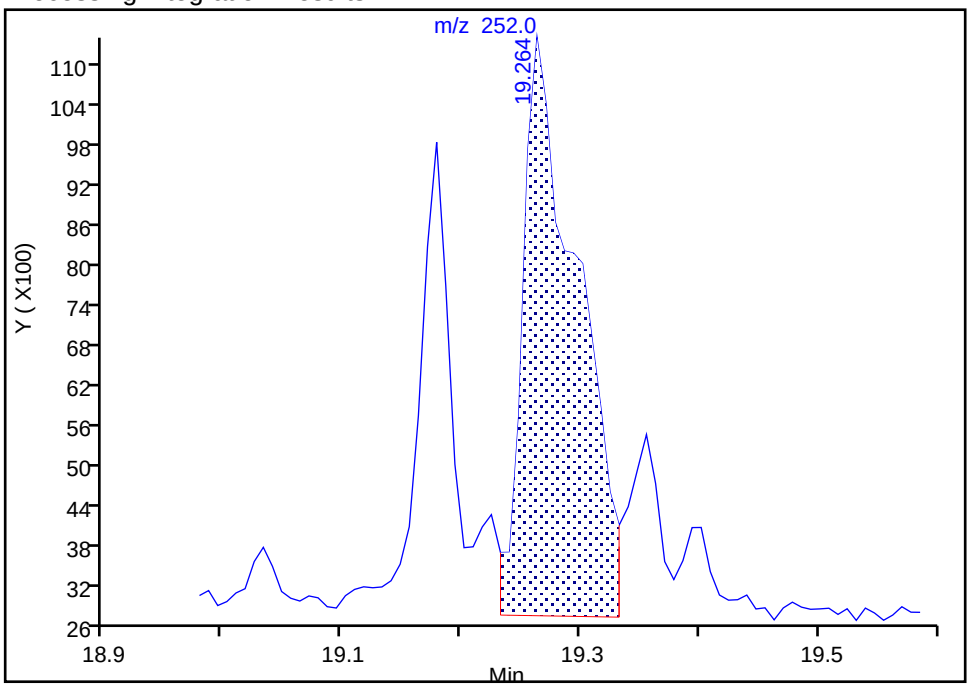
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Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

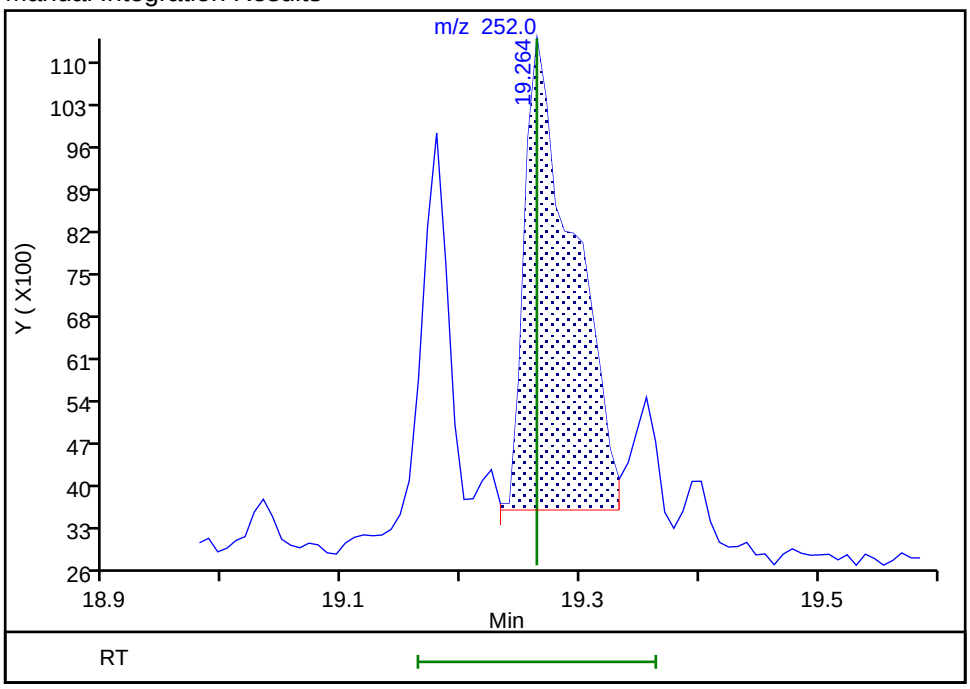
Processing Integration Results

RT: 19.26
Area: 27316
Amount: 0.007028
Amount Units: ug/ml



Manual Integration Results

RT: 19.26
Area: 22252
Amount: 0.005726
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:40:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

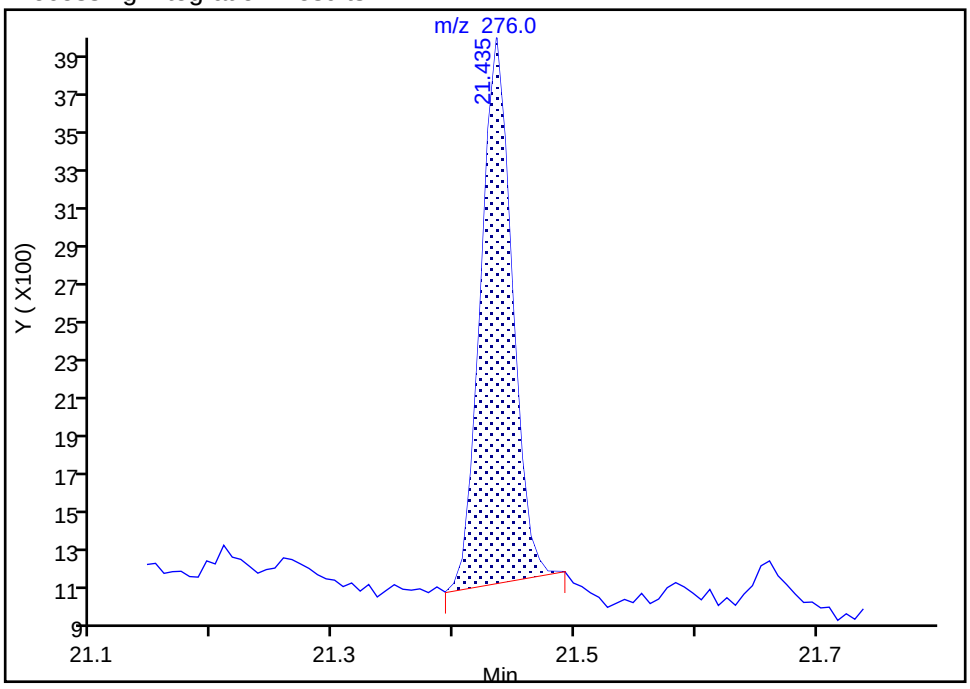
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

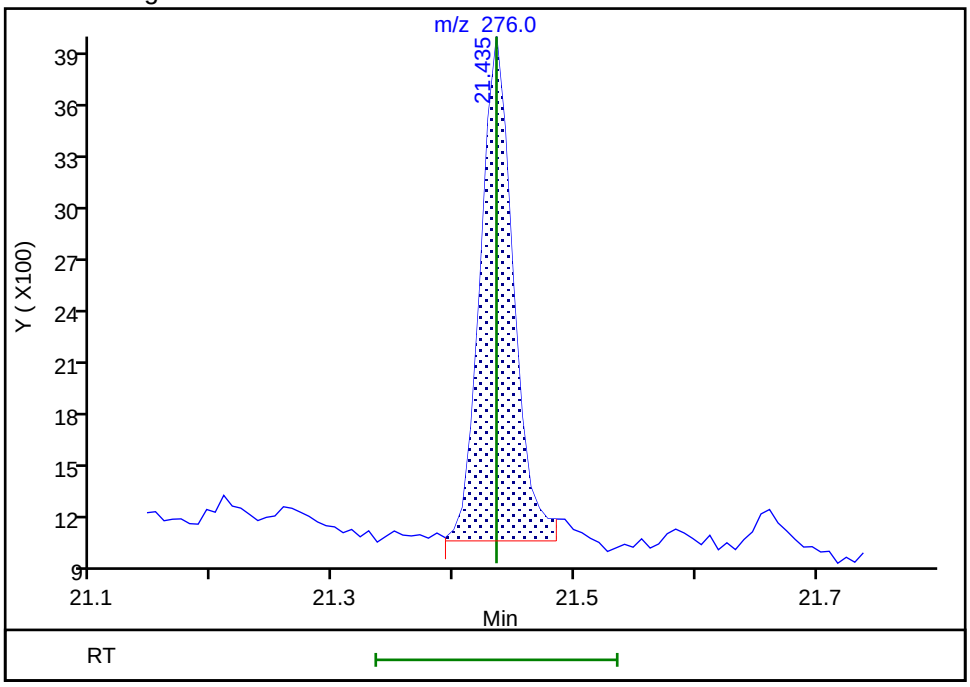
Processing Integration Results

RT: 21.44
Area: 5211
Amount: 0.001359
Amount Units: ug/ml



Manual Integration Results

RT: 21.44
Area: 5581
Amount: 0.001455
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:41:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

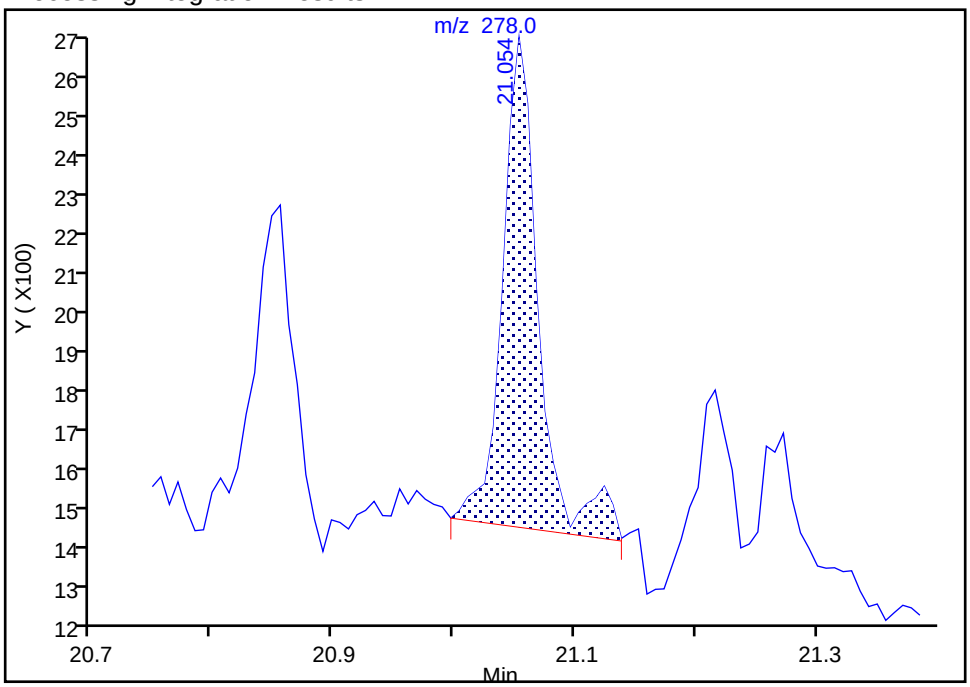
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Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

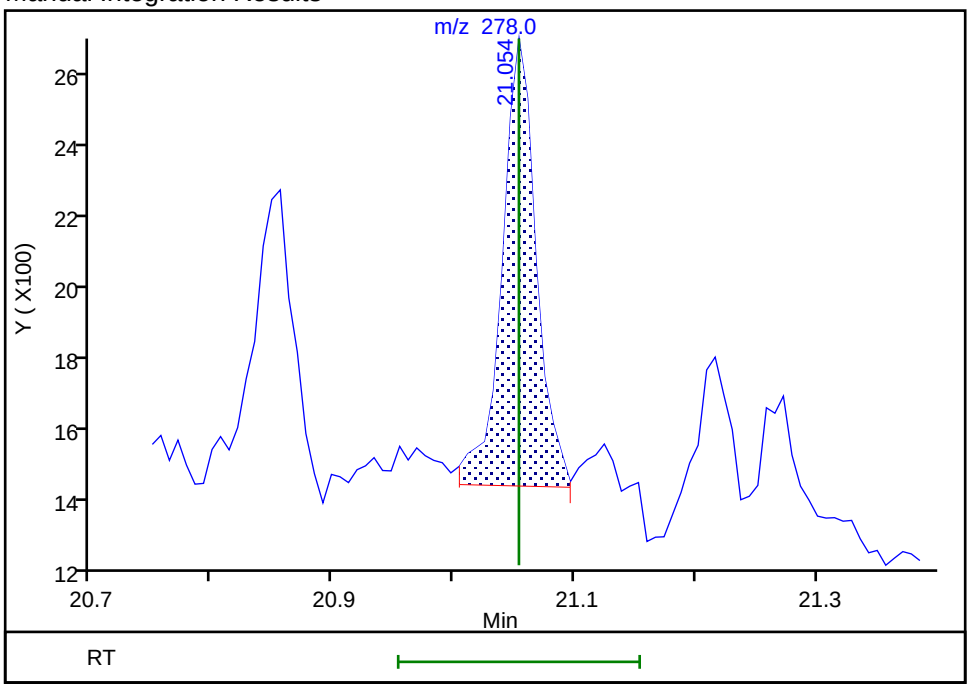
Processing Integration Results

RT: 21.05
Area: 2358
Amount: 0.007286
Amount Units: ug/ml



Manual Integration Results

RT: 21.05
Area: 2246
Amount: 0.007256
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:40:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

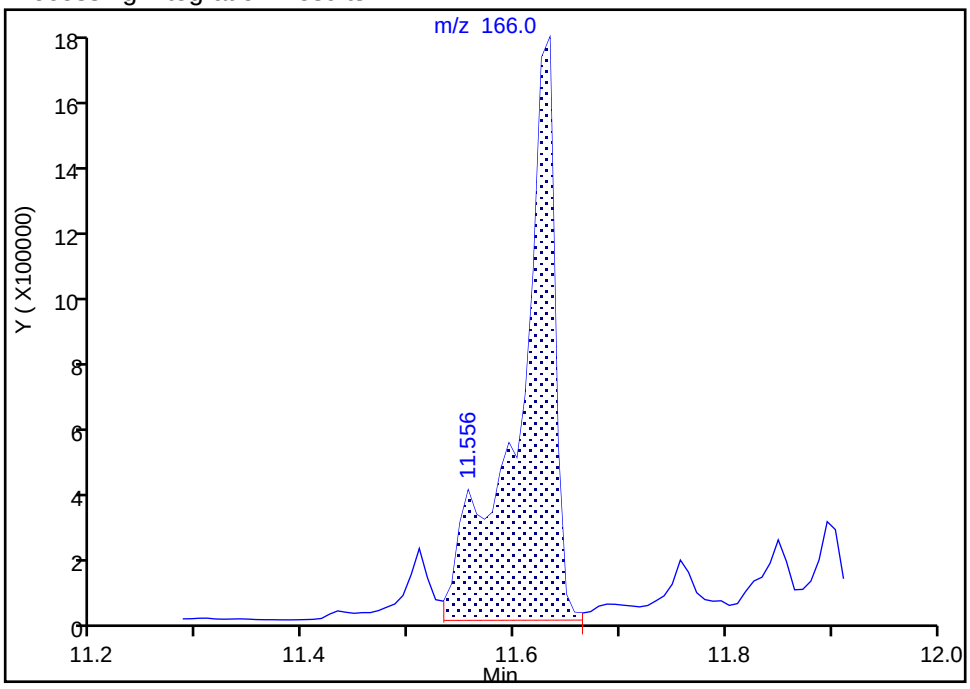
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

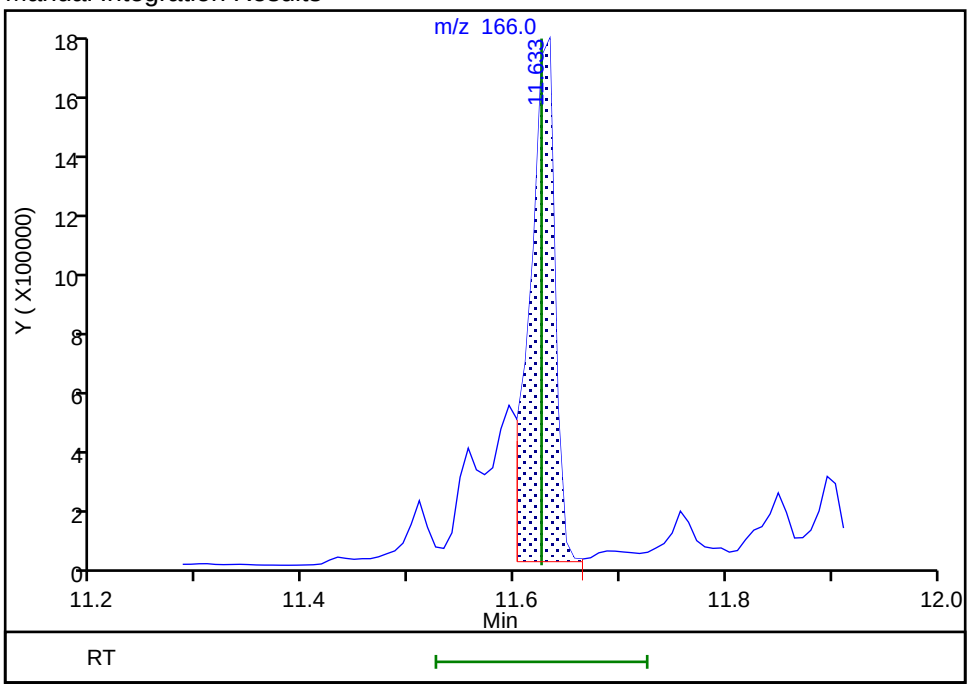
Processing Integration Results

RT: 11.56
Area: 4189485
Amount: 2.170114
Amount Units: ug/ml



Manual Integration Results

RT: 11.63
Area: 2755359
Amount: 1.427250
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:39:52

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

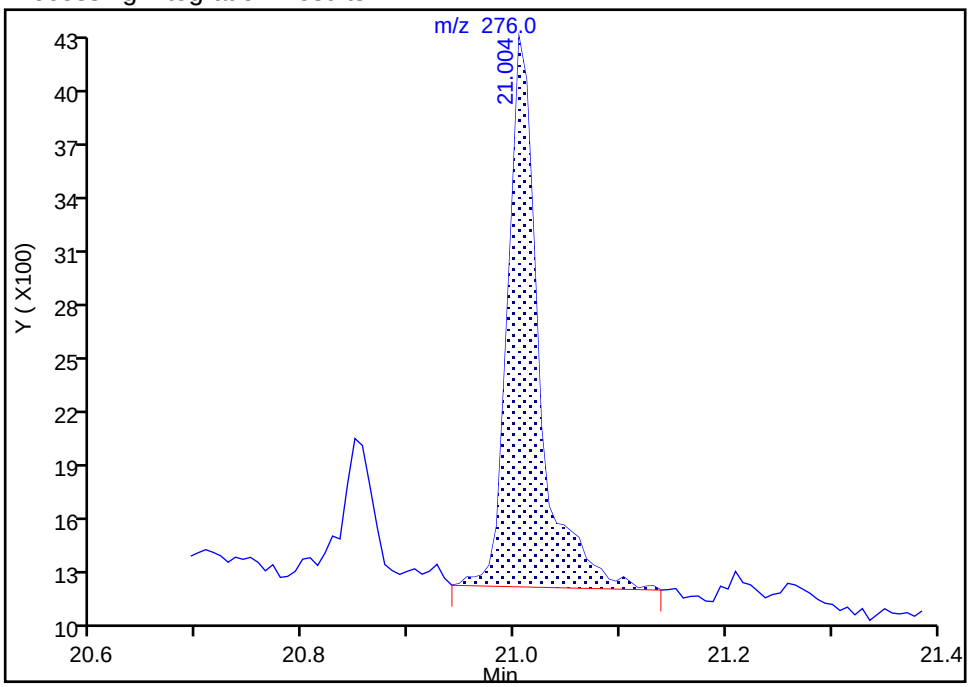
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Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

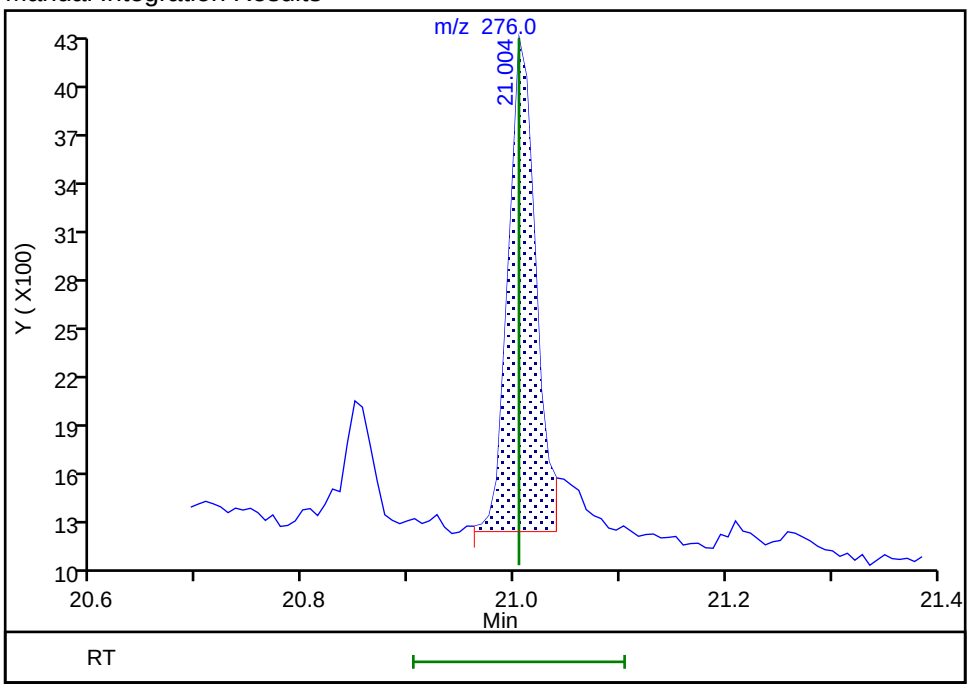
Processing Integration Results

RT: 21.00
Area: 6357
Amount: 0.002022
Amount Units: ug/ml



Manual Integration Results

RT: 21.00
Area: 5471
Amount: 0.001740
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:40:53
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

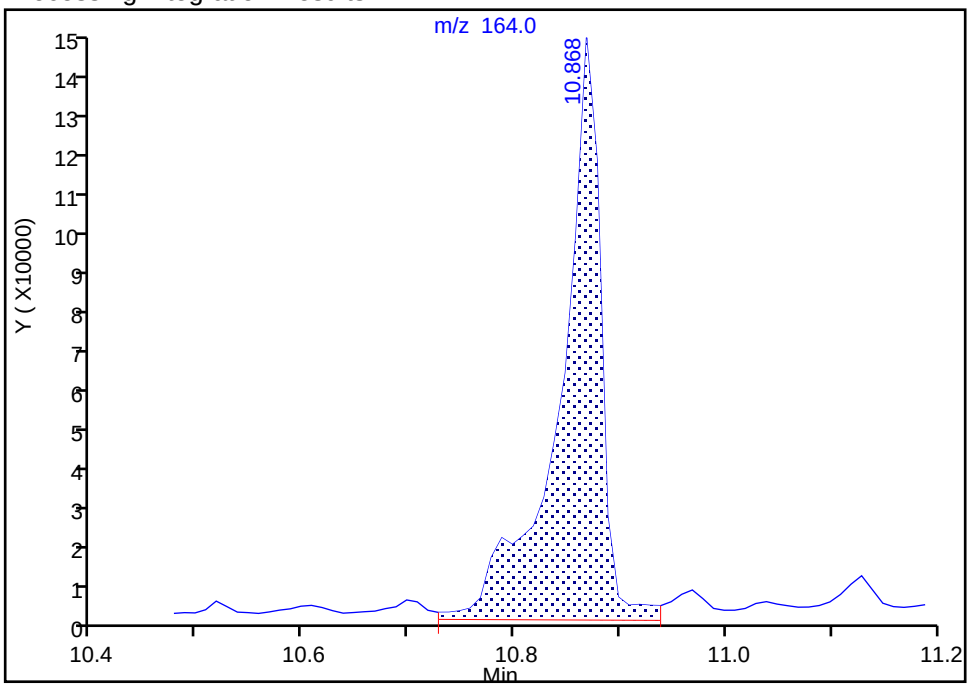
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Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

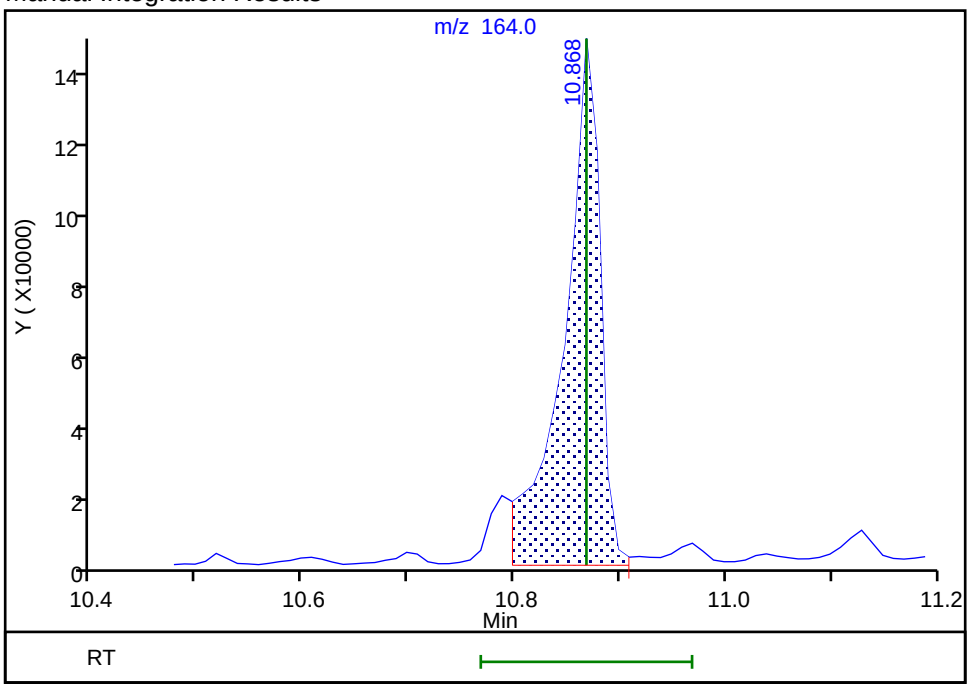
Processing Integration Results

RT: 10.87
Area: 387876
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.87
Area: 336736
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:39:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

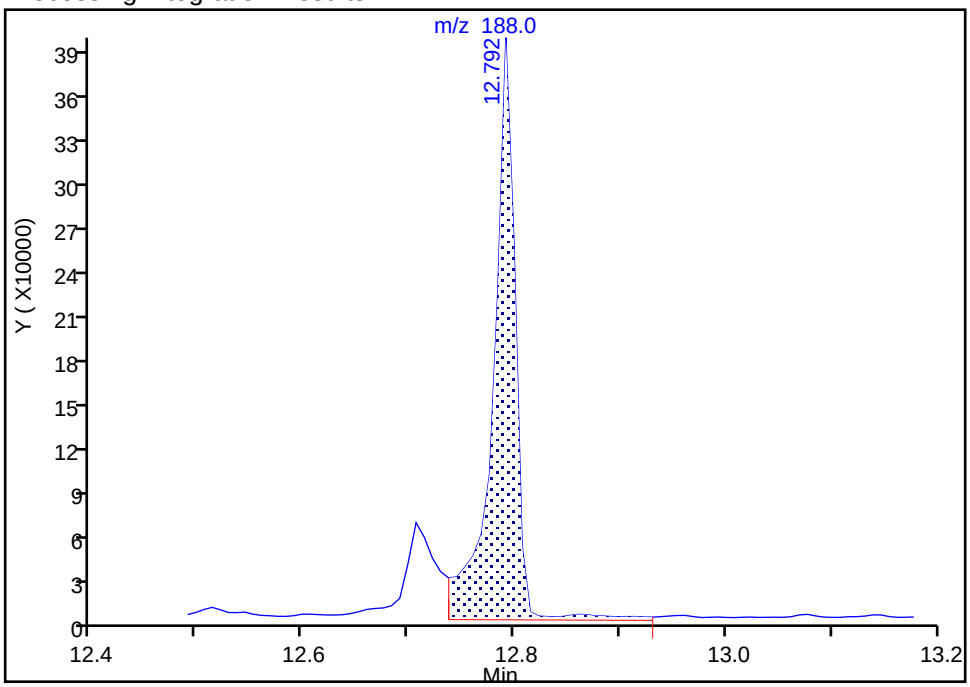
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Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 20 Phenanthrene-d10, CAS: 1517-22-2

Signal: 1

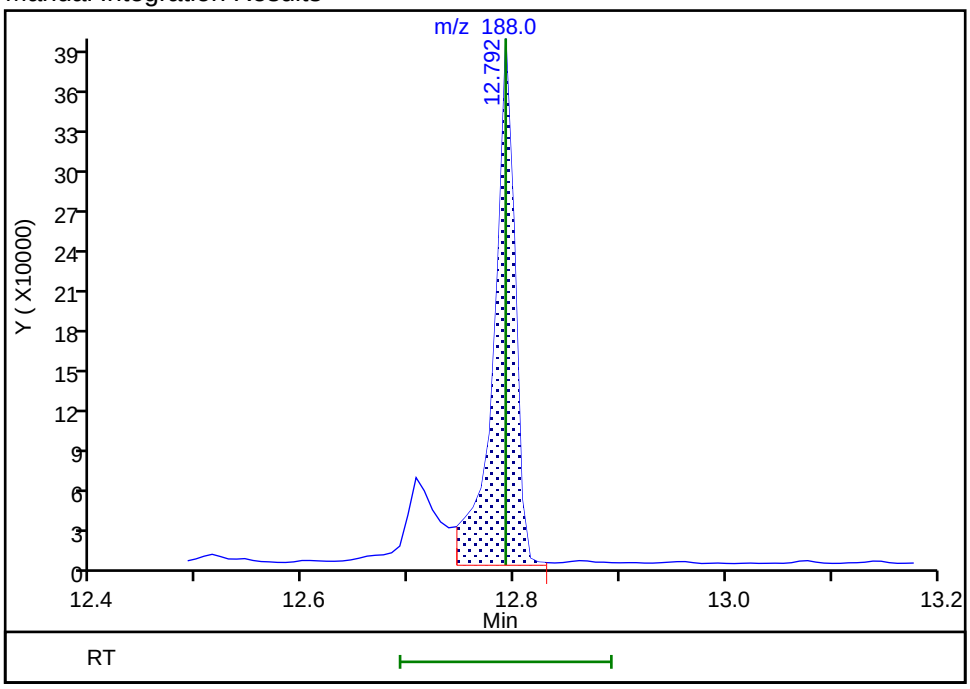
Processing Integration Results

RT: 12.79
Area: 569295
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 12.79
Area: 538844
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:40:02
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

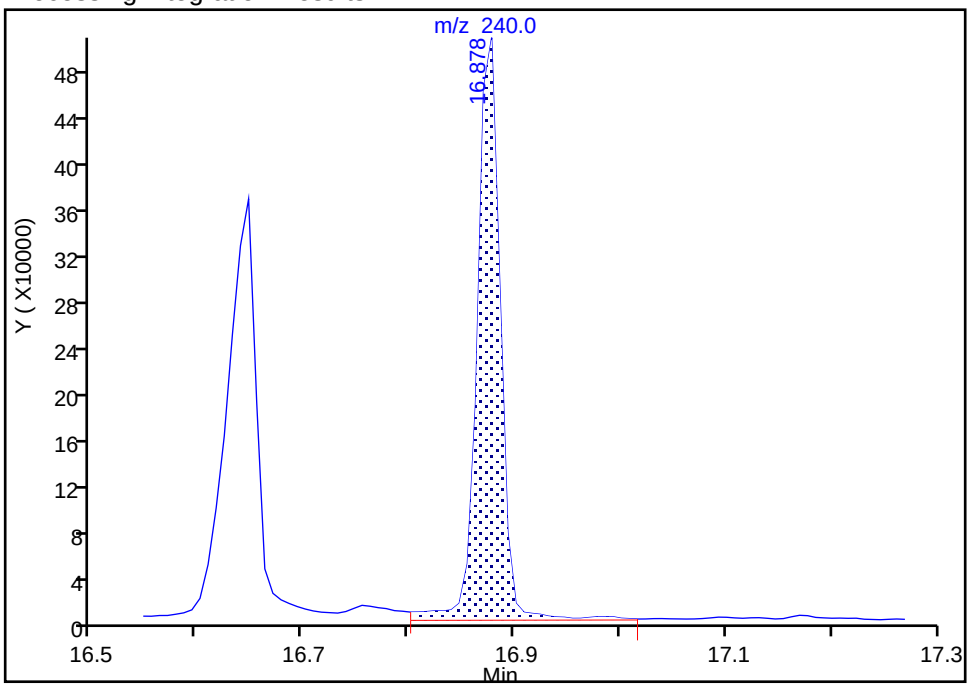
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0378.D				
Injection Date:	06-Jul-2021 09:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

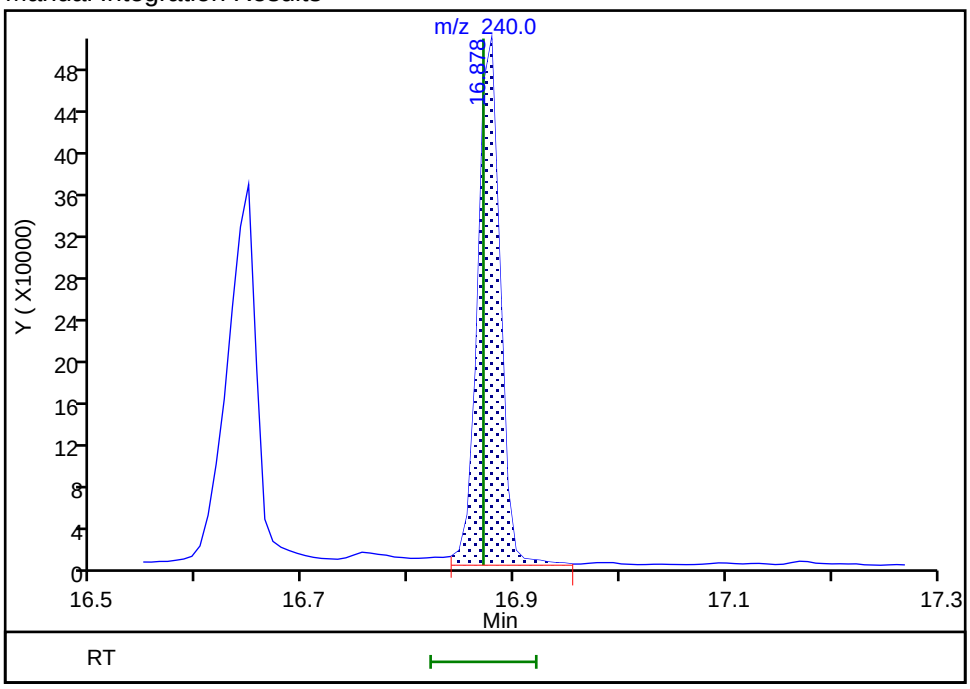
Processing Integration Results

RT: 16.88
Area: 764534
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 16.88
Area: 736400
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:40:30

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-3-20210624 DL Lab Sample ID: 410-45105-16 DL

Matrix: Groundwater Lab File ID: NG0379.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 10:14

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 243.6(mL) Date Analyzed: 07/06/2021 10:29

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	37		0.51	0.10
206-44-0	Fluoranthene	13		0.51	0.10
91-20-3	Naphthalene	91		0.72	0.31
129-00-0	Pyrene	16		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	87		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		36-111
93951-69-0	Fluoranthene-d10 (Surr)	101		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D
Lims ID: 410-45105-A-16-A DL
Client ID: MW-3-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 10:29:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-45105-A-16-A
Misc. Info.: 410-0033556-010
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:44:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.066	6.053	0.013	97	170848	0.2500	
* 5 Naphthalene-d8	136	8.028	8.027	0.001	48	615123	0.2500	
6 Naphthalene	128	8.053	8.052	0.001	100	5606431	2.21	
$ 9 1-Methylnaphthalene-d10	152	9.276	9.286	-0.010	70	26479	0.0202	M
12 Acenaphthylene	152	10.638	10.638	0.000	98	321078	0.1233	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	95	338576	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	92	1353638	0.8966	
17 Fluorene	166	11.626	11.625	0.000	100	469068	0.2417	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	666486	0.2500	
21 Phenanthrene	178	12.823	12.822	0.001	100	526500	0.1744	
22 Anthracene	178	12.884	12.884	0.000	99	86396	0.0326	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	96	69120	0.0252	
25 Fluoranthene	202	14.477	14.484	-0.007	97	1002008	0.3180	
26 Pyrene	202	14.822	14.828	-0.006	96	1356983	0.3794	
28 Benzo[a]anthracene	228	16.848	16.855	-0.007	99	116429	0.0333	
* 29 Chrysene-d12	240	16.871	16.870	0.001	82	708891	0.2500	M
30 Chrysene	228	16.909	16.917	-0.007	100	65897	0.0200	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.218	19.225	-0.007	96	69863	0.0219	
* 38 Perylene-d12	264	19.348	19.355	-0.007	96	865535	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

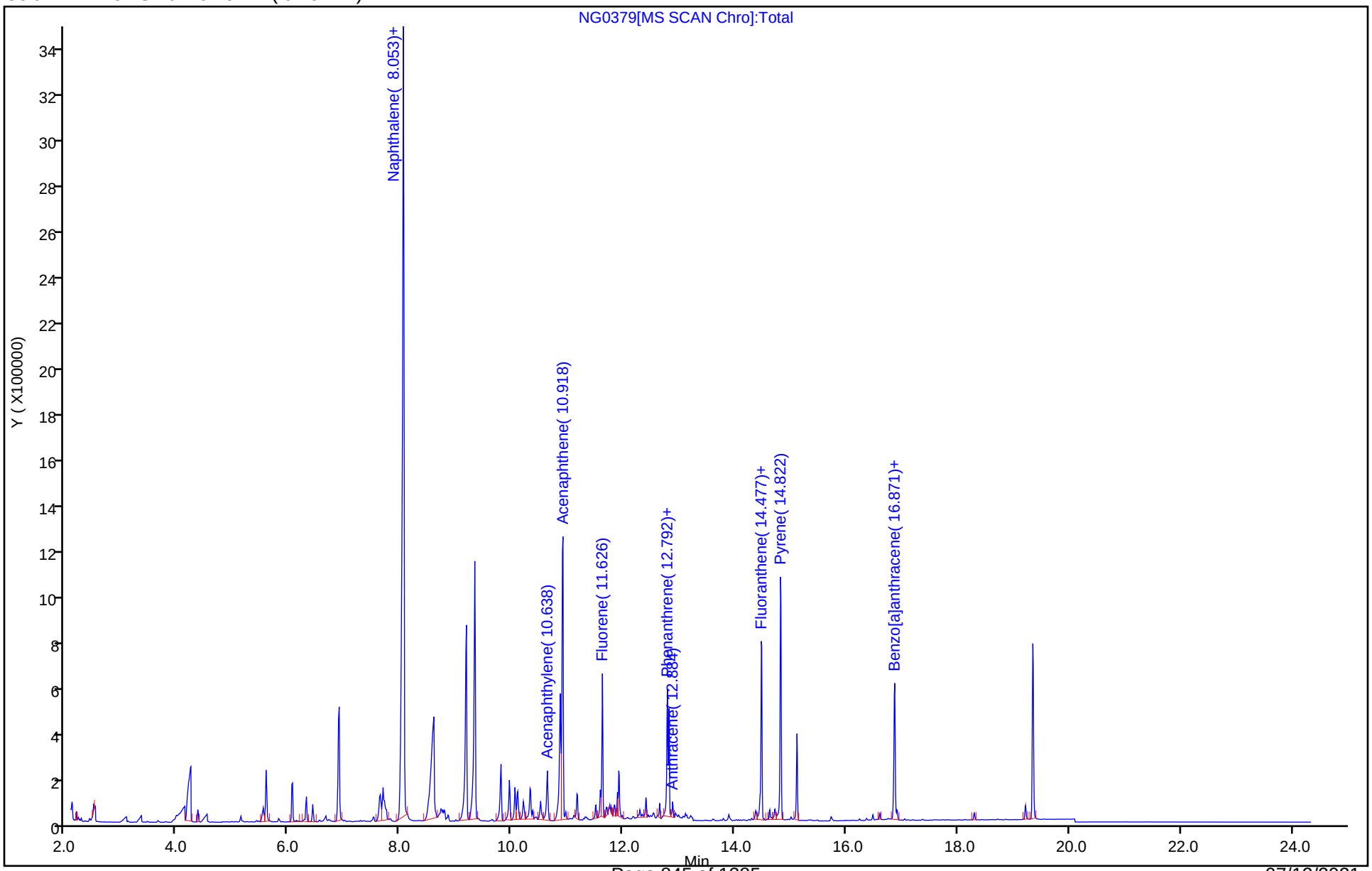
Report Date: 06-Jul-2021 20:01:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D

Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16	Worklist Smp#:	10
Client ID:	MW-3-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	10
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



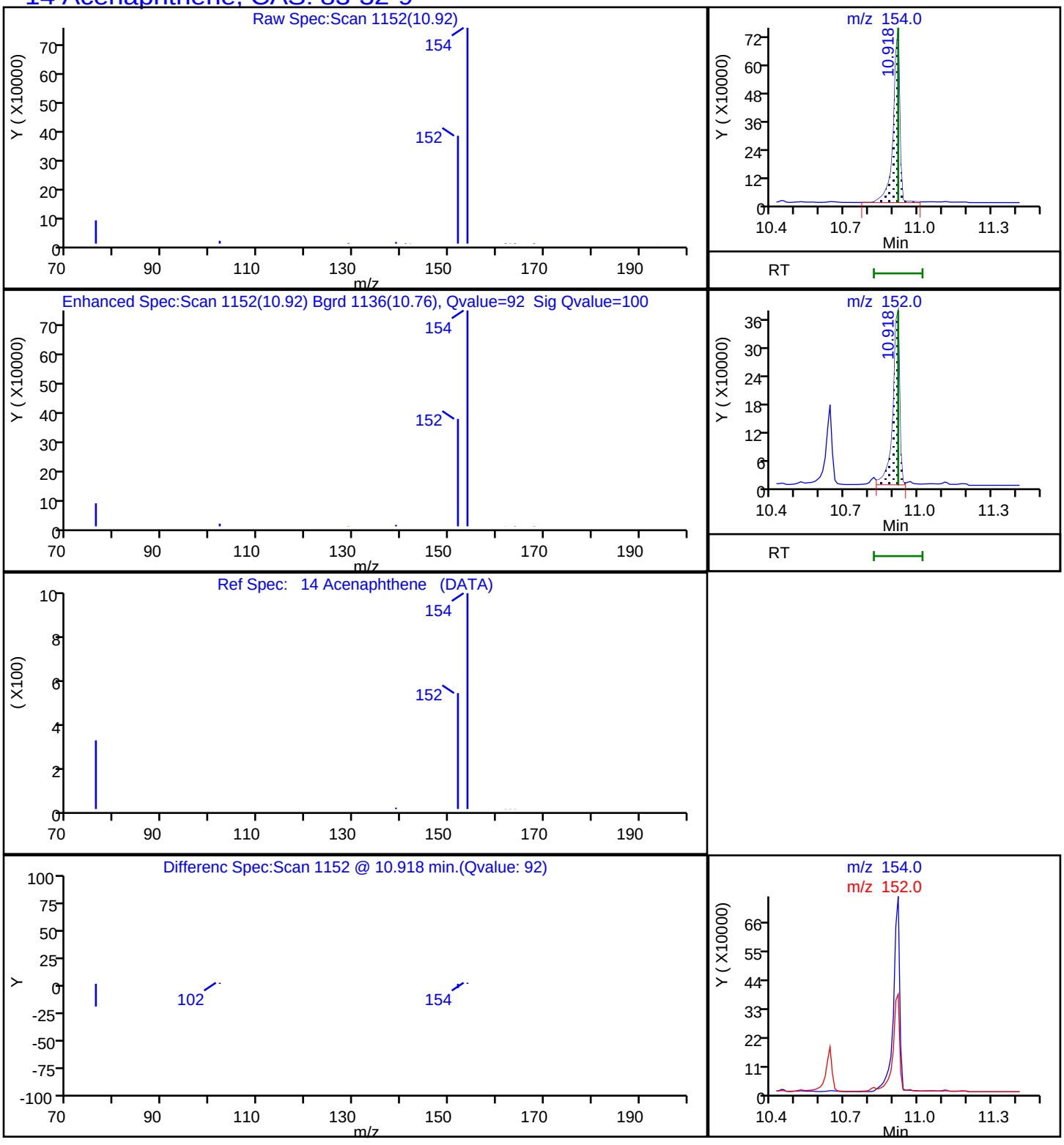
Report Date: 06-Jul-2021 20:01:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D

Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9



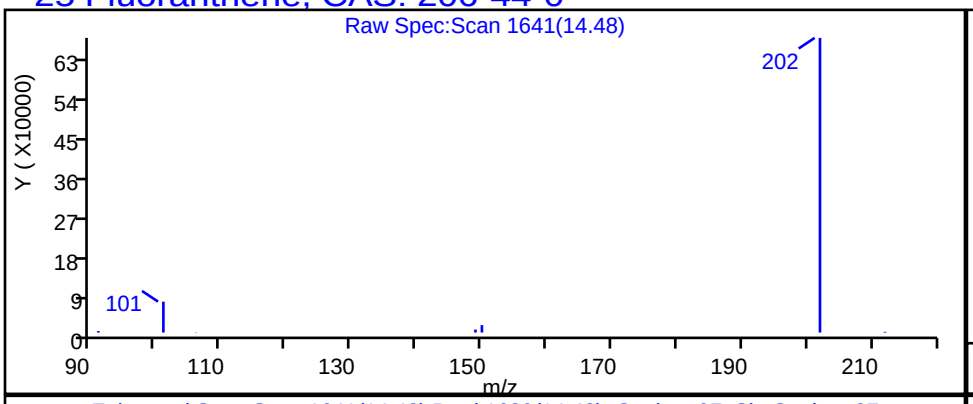
Report Date: 06-Jul-2021 20:01:14 Chrom Revision: 2.3 13-May-2021 07:57:40

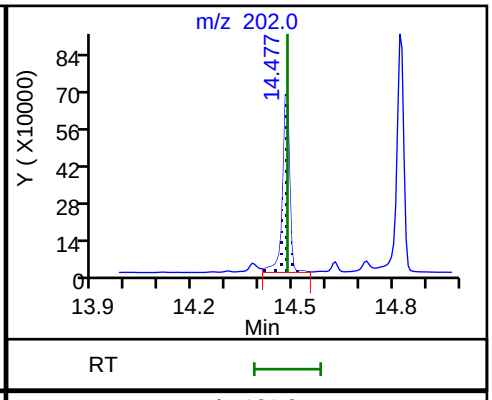
Eurofins Lancaster Laboratories Env, LLC

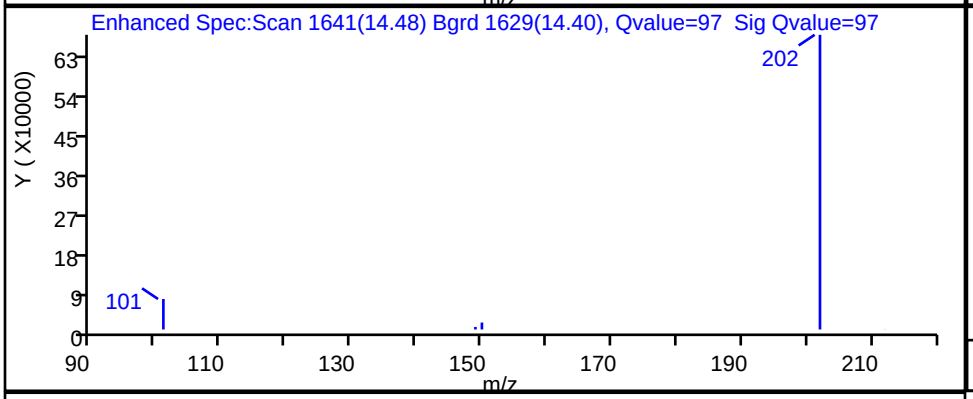
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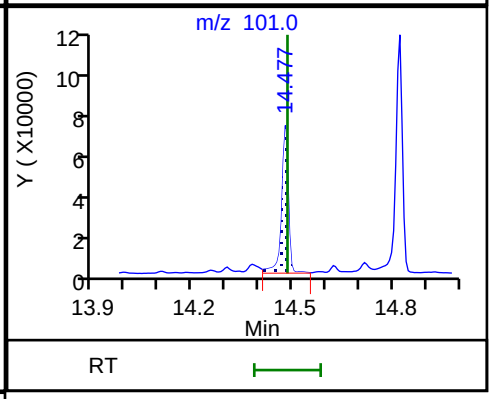
Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

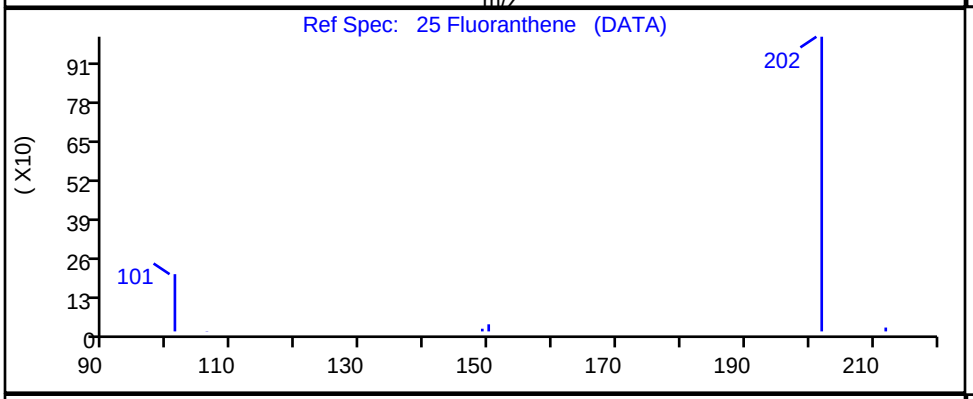
25 Fluoranthene, CAS: 206-44-0

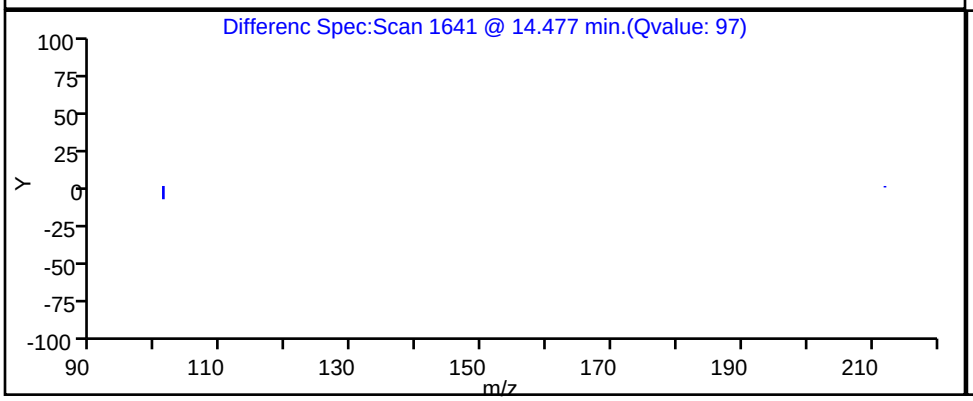


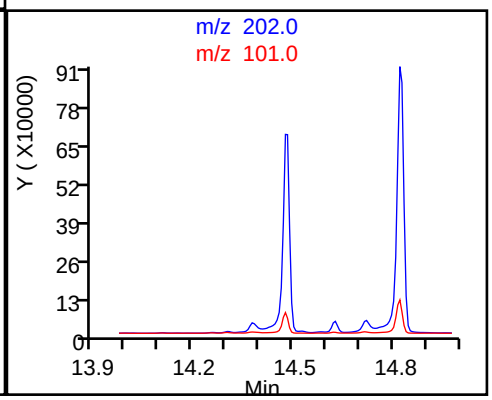












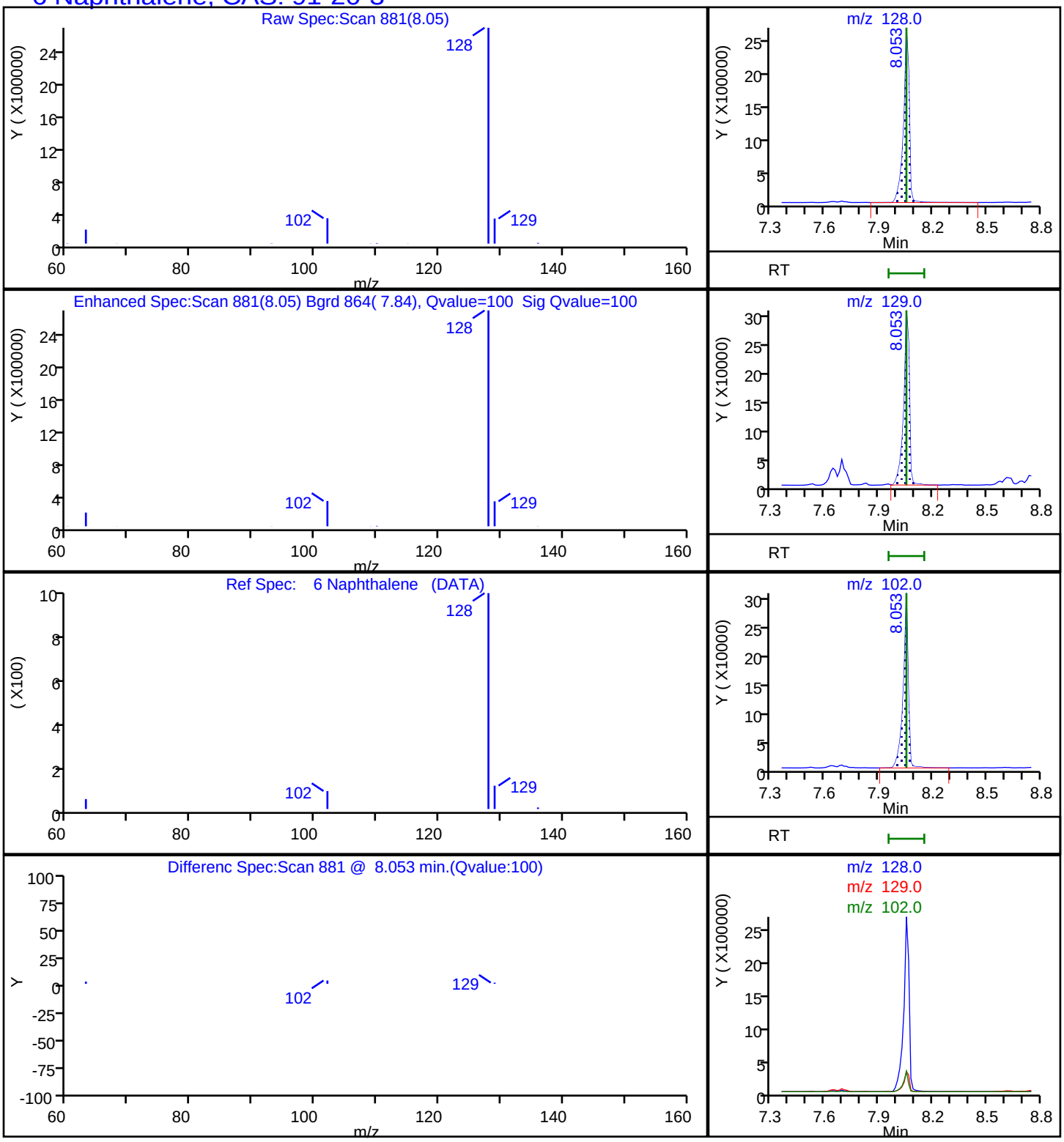
Report Date: 06-Jul-2021 20:01:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D

Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

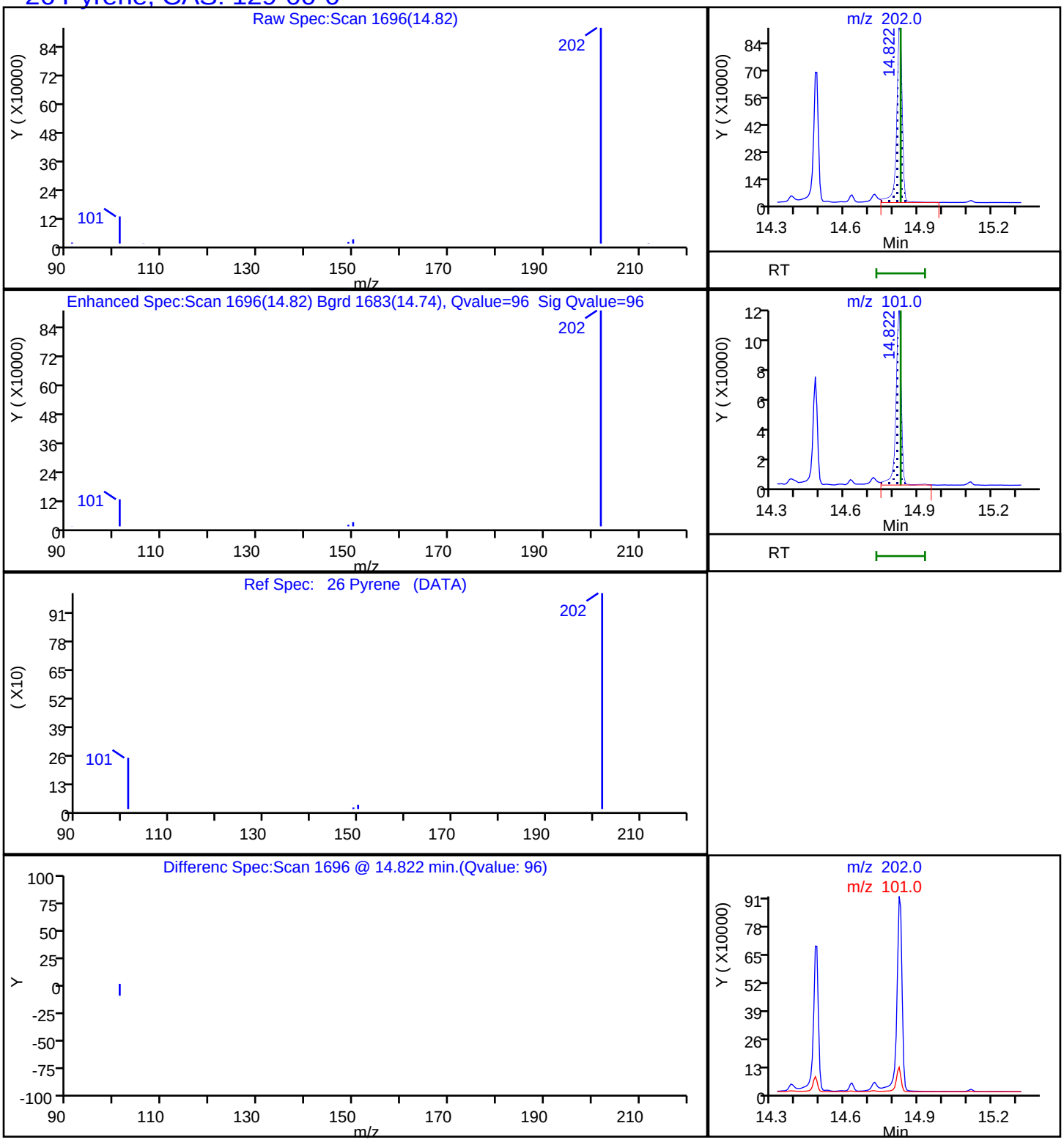
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D				
Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

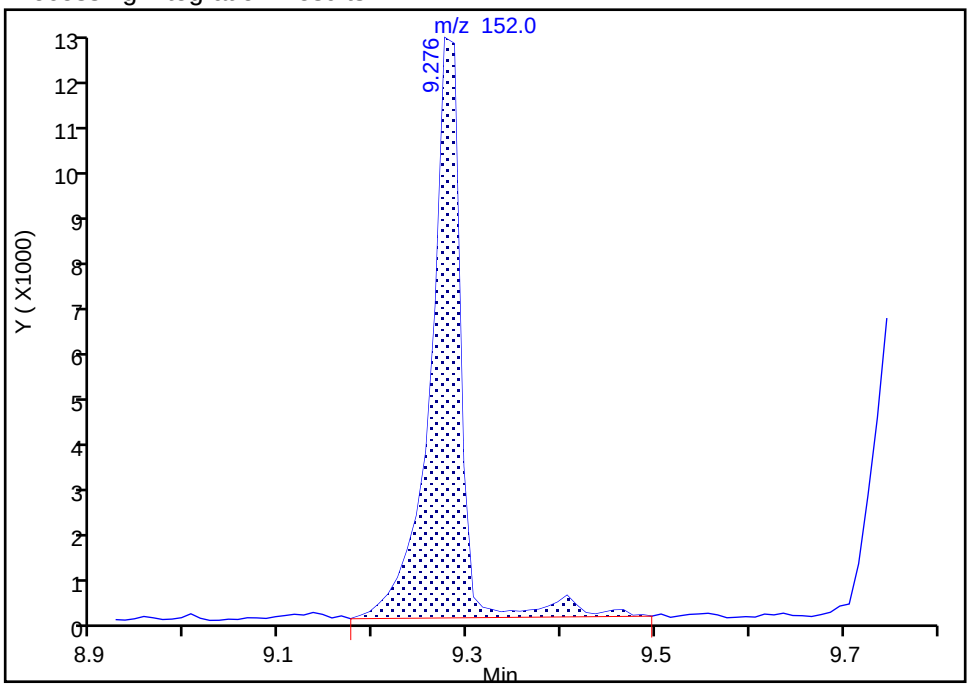
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D				
Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 9 1-Methylnaphthalene-d10, CAS: 38072-94-5

Signal: 1

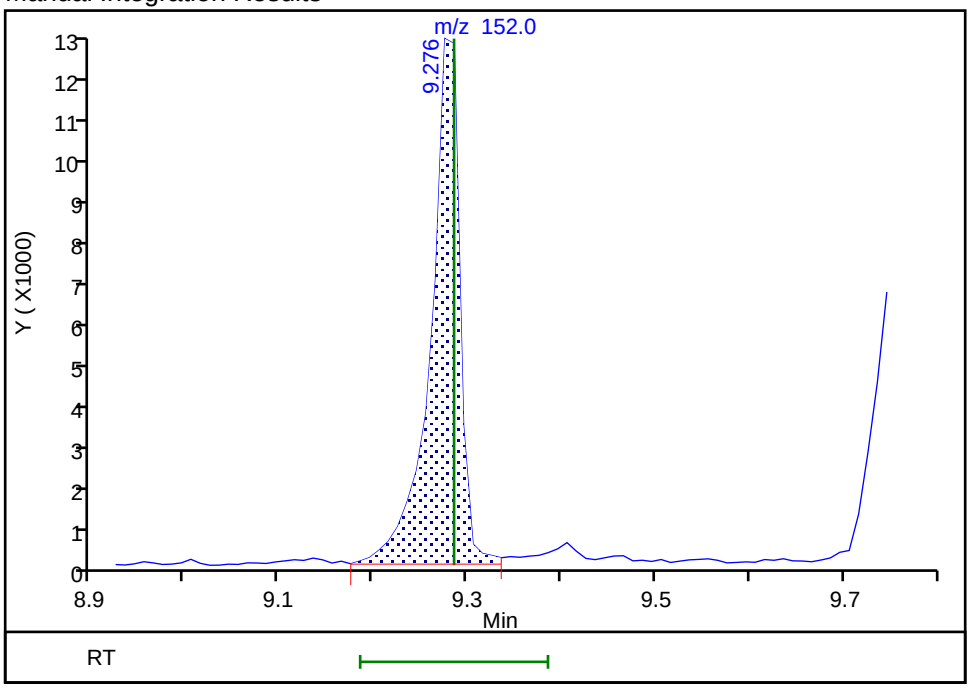
Processing Integration Results

RT: 9.28
Area: 27715
Amount: 0.021153
Amount Units: ug/ml



Manual Integration Results

RT: 9.28
Area: 26479
Amount: 0.020210
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:41:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

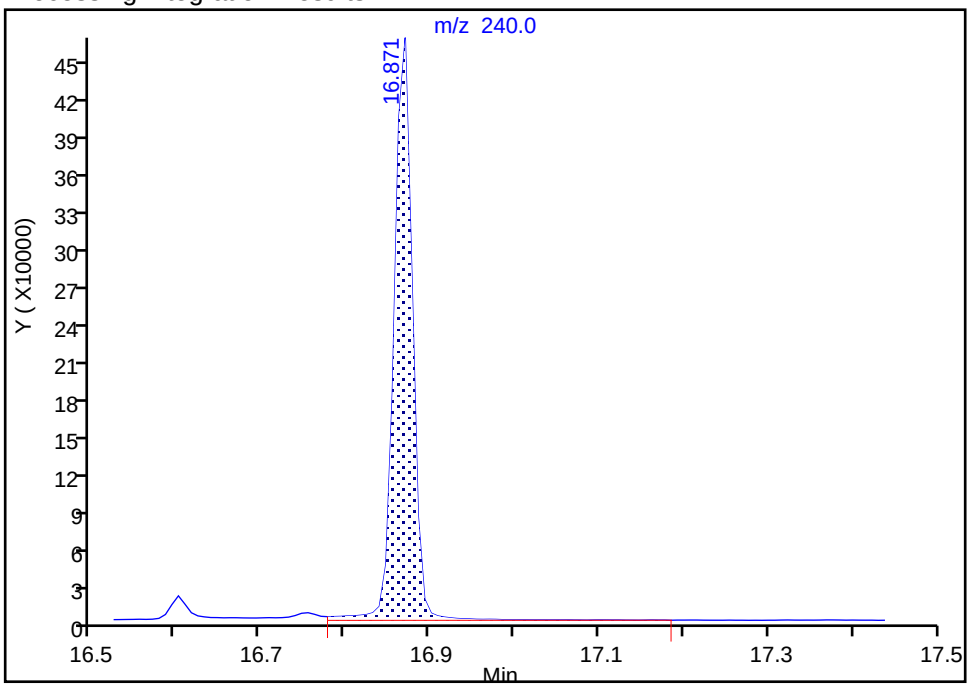
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0379.D				
Injection Date:	06-Jul-2021 10:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-16-A DL	Lab Sample ID:	410-45105-16		
Client ID:	MW-3-20210624				
Operator ID:	jmg00346	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

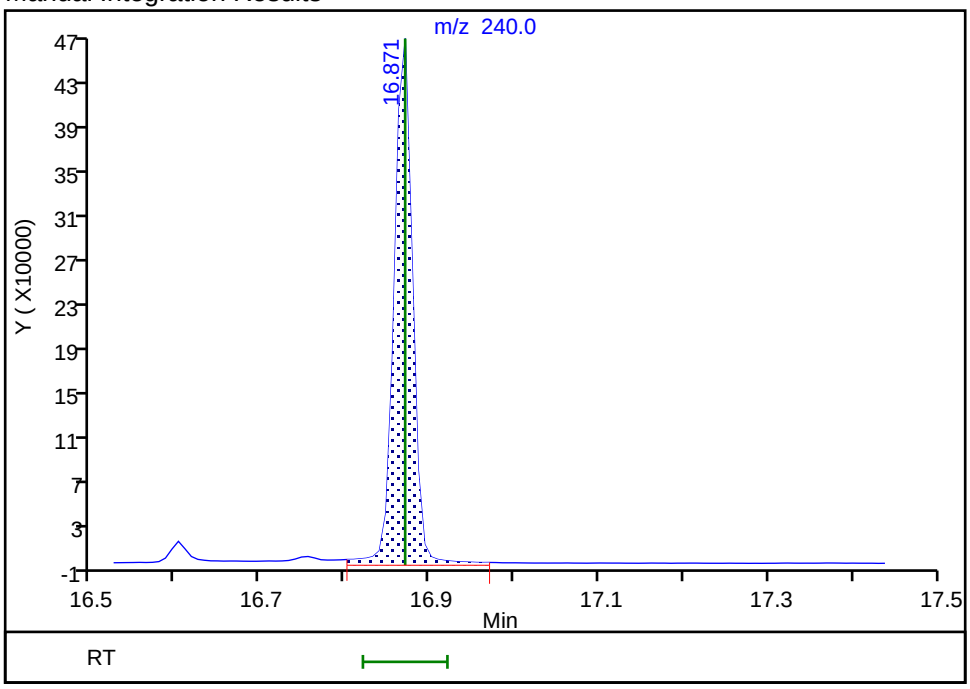
Processing Integration Results

RT: 16.87
Area: 699724
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 16.87
Area: 708891
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:42:03

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-13S-20210624 Lab Sample ID: 410-45105-17

Matrix: Groundwater Lab File ID: NG0380.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 10:53

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 244.5(mL) Date Analyzed: 07/06/2021 10:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	1.7		0.051	0.010
120-12-7	Anthracene	8.7		0.051	0.010
56-55-3	Benzo[a]anthracene	1.4		0.051	0.010
50-32-8	Benzo[a]pyrene	0.091		0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.098		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	0.032	J	0.051	0.010
218-01-9	Chrysene	1.1		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	8.1		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
129-00-0	Pyrene	7.9		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	71		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		36-111
93951-69-0	Fluoranthene-d10 (Surr)	102		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D
Lims ID: 410-45105-A-17-A
Client ID: MW-13S-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 10:59:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-17-A
Misc. Info.: 410-0033556-011
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:46:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.053	0.025	96	185299	0.2500	
* 5 Naphthalene-d8	136	8.027	8.027	0.000	9	623311	0.2500	
6 Naphthalene	128	8.077	8.052	0.025	94	37688601	14.7	Ee
$ 9 1-Methylnaphthalene-d10	152	9.285	9.286	-0.001	98	244919	0.1845	
12 Acenaphthylene	152	10.638	10.638	0.000	99	1182028	0.4092	
* 13 Acenaphthene-d10	164	10.878	10.868	0.010	81	375487	0.2500	
14 Acenaphthene	154	10.928	10.918	0.010	93	17306628	10.3	E
17 Fluorene	166	11.633	11.625	0.007	99	6494988	3.02	EM
* 20 Phenanthrene-d10	188	12.799	12.792	0.007	100	531858	0.2500	M
21 Phenanthrene	178	12.822	12.822	0.000	99	20302469	8.43	EeM
22 Anthracene	178	12.892	12.884	0.008	100	4522979	2.14	eM
$ 24 Fluoranthene-d10 (Surr)	212	14.458	14.458	0.006	94	560166	0.2559	M
25 Fluoranthene	202	14.490	14.484	0.006	94	4987444	1.98	M
26 Pyrene	202	14.835	14.828	0.006	95	6915294	1.94	
28 Benzo[a]anthracene	228	16.855	16.855	0.000	76	1235999	0.3544	
* 29 Chrysene-d12	240	16.870	16.870	0.000	96	708188	0.2500	
30 Chrysene	228	16.916	16.917	0.000	99	853288	0.2597	
33 Benzo[b]fluoranthene	252	18.734	18.734	0.007	100	104011	0.0240	M
34 Benzo[k]fluoranthene	252	18.772	18.773	-0.001	99	33677	0.007877	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.225	19.225	0.000	95	594204	0.1770	
37 Benzo[a]pyrene	252	19.256	19.263	-0.007	100	83379	0.0222	M
* 38 Perylene-d12	264	19.355	19.355	0.000	94	909771	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
e - Potential Peak Saturated

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

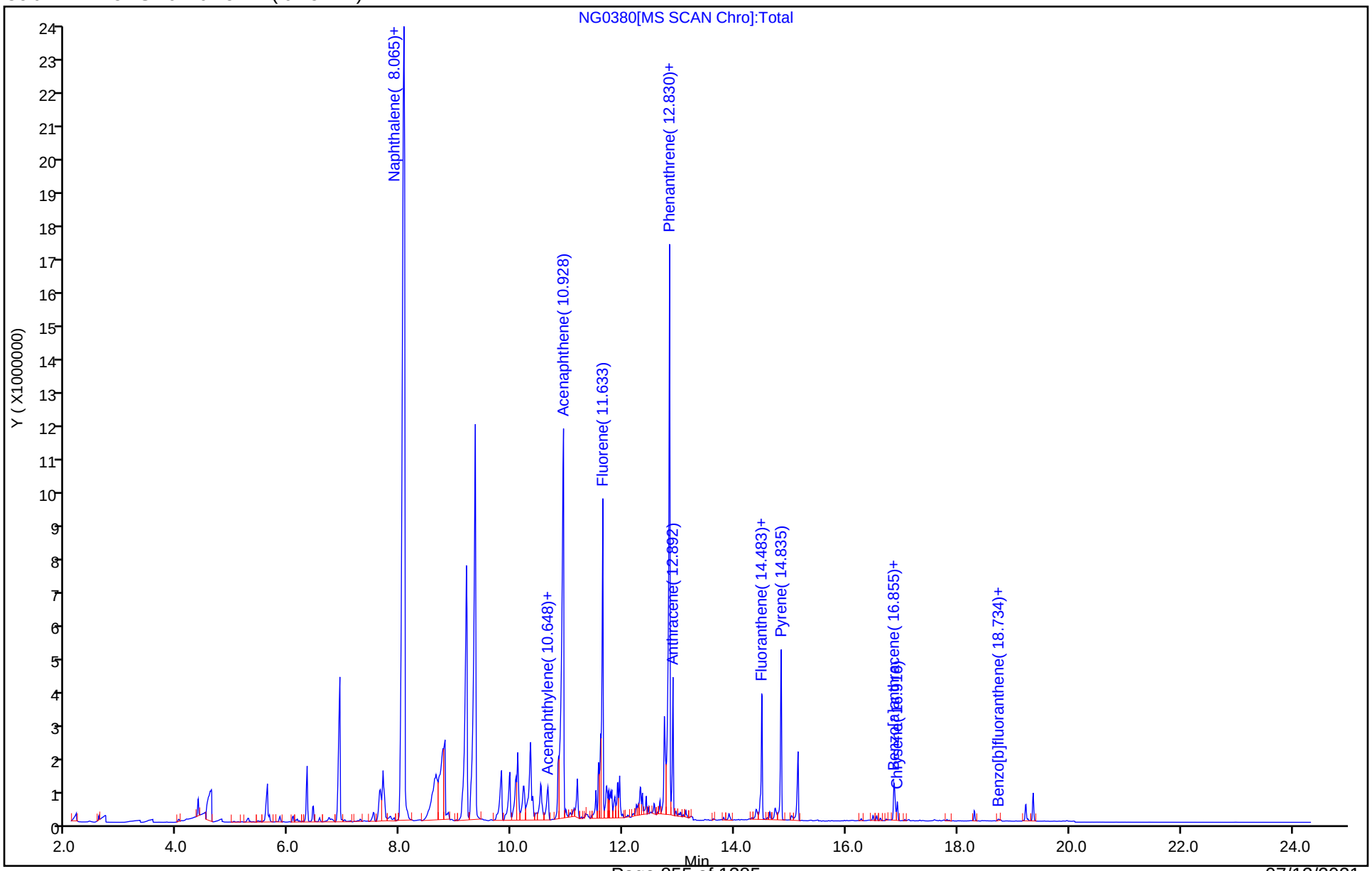
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17	Worklist Smp#:	11
Client ID:	MW-13S-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



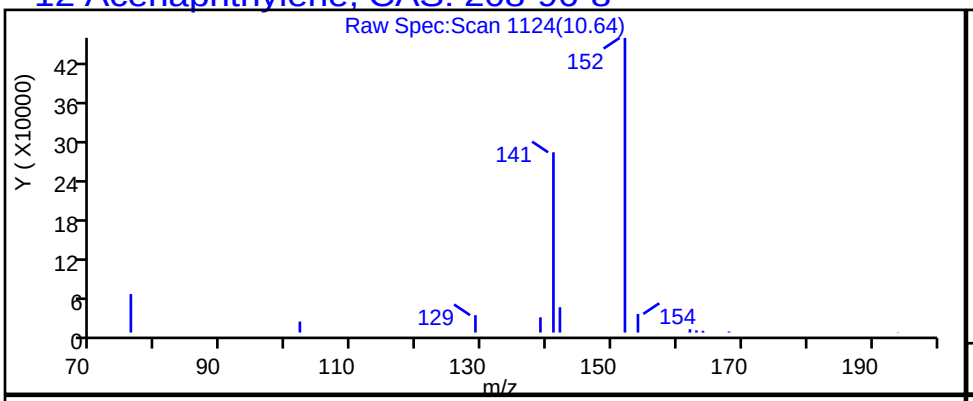
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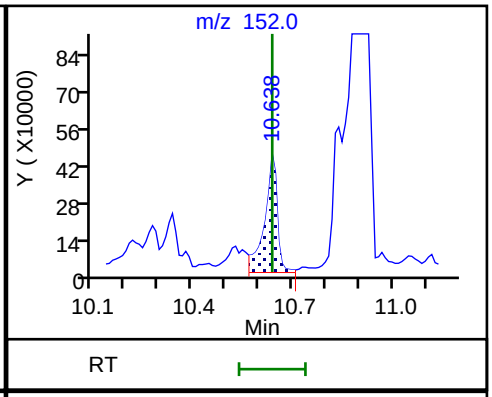
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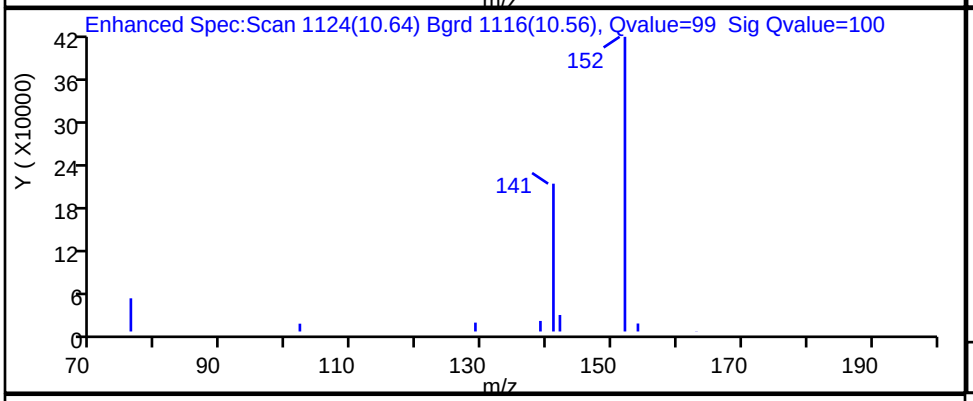
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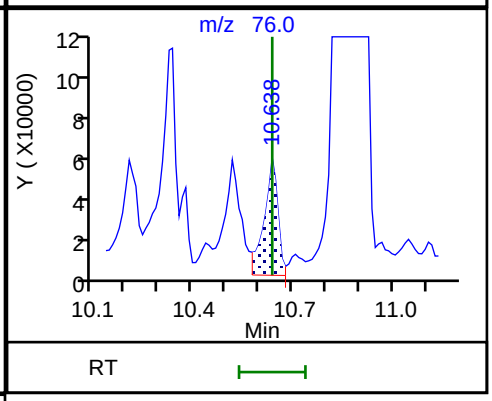
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Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

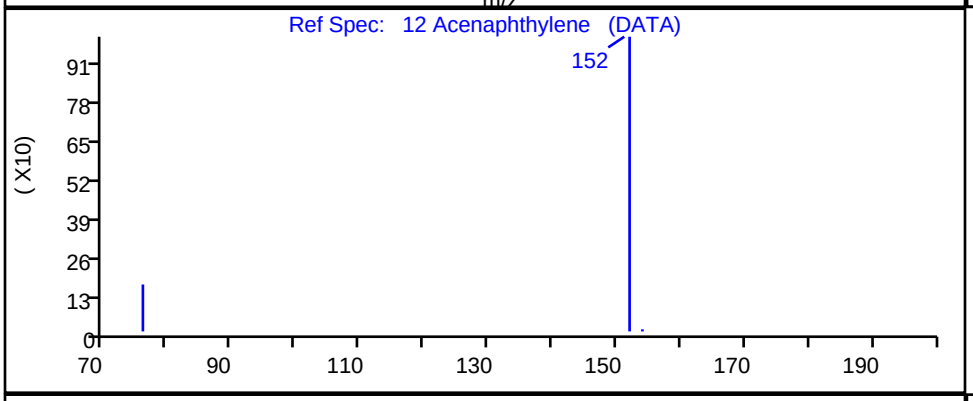
12 Acenaphthylene, CAS: 208-96-8

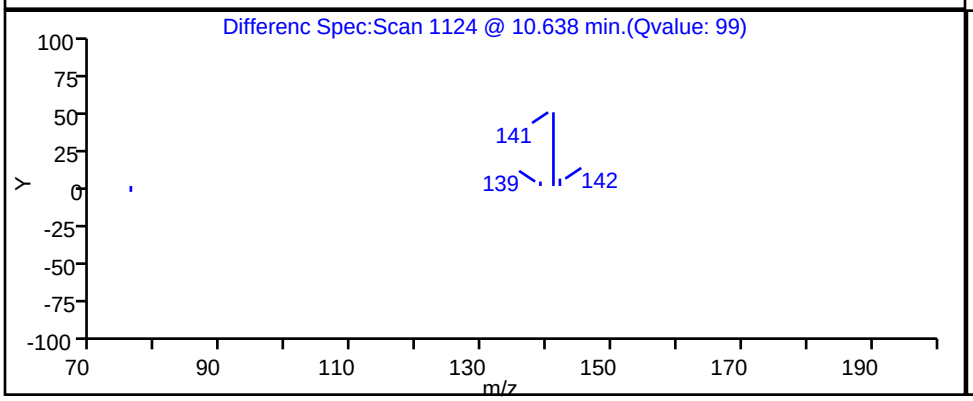


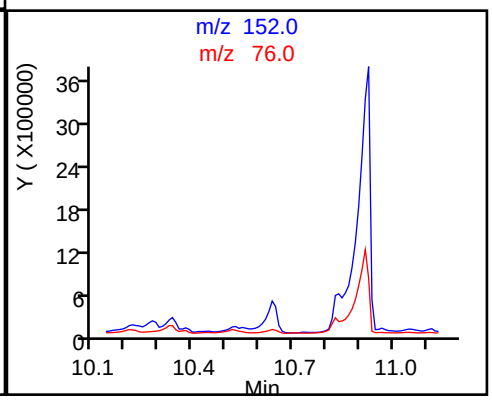












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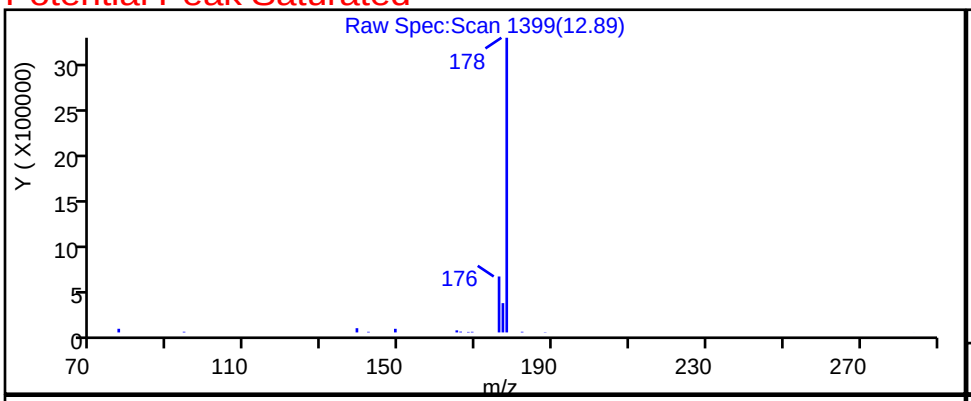
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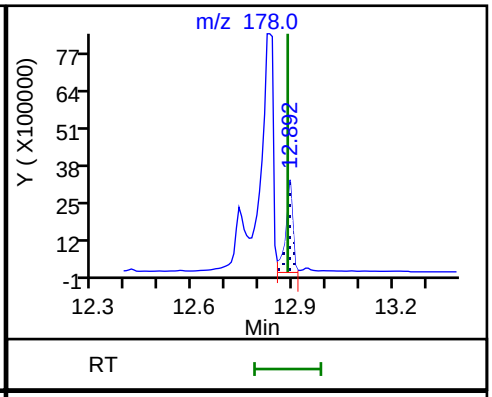
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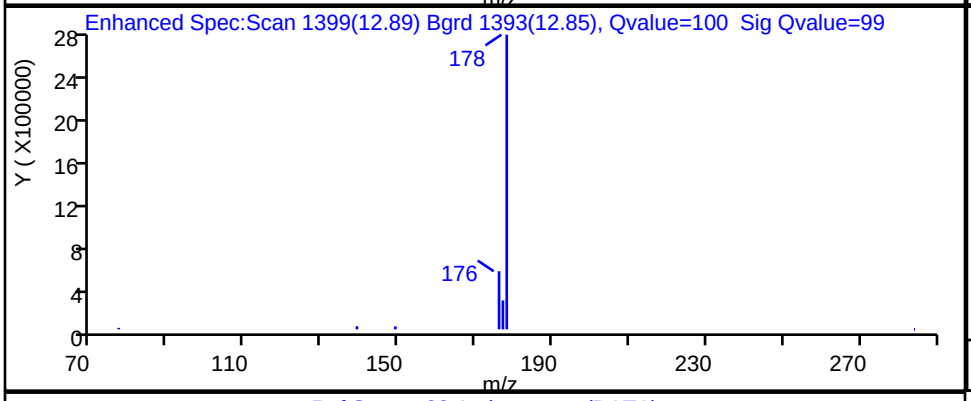
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Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

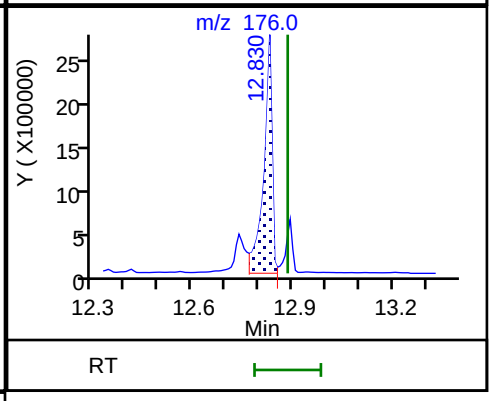
22 Anthracene, CAS: 120-12-7

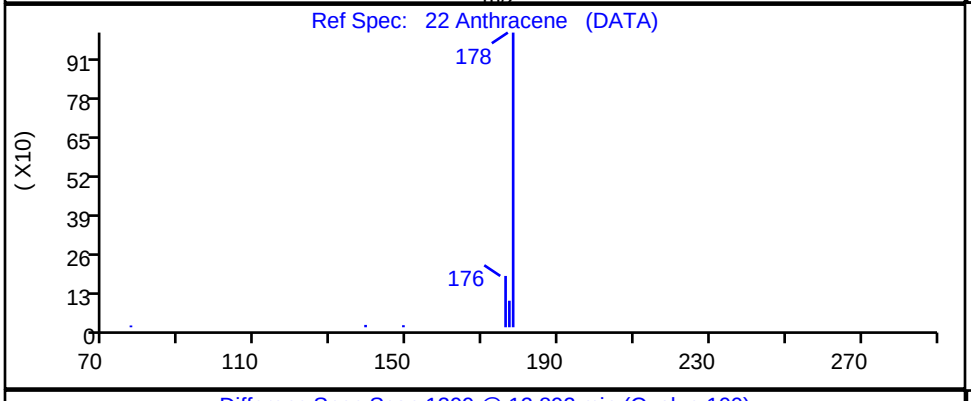
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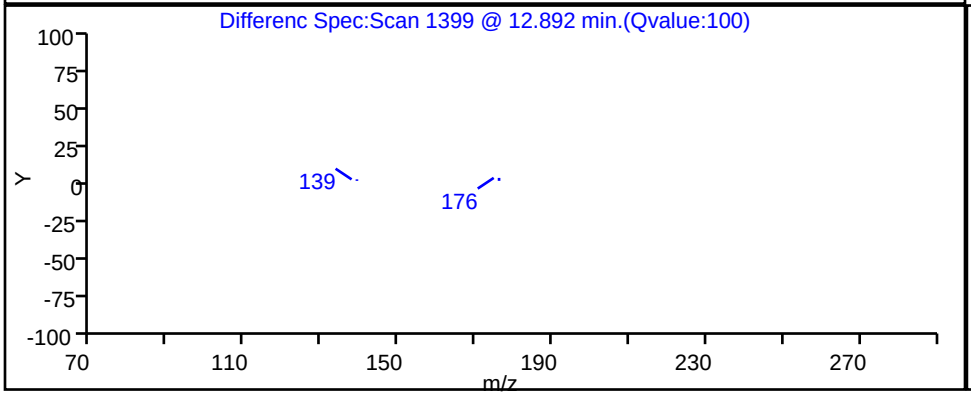


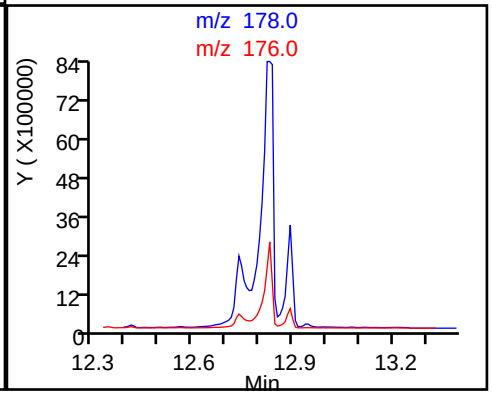








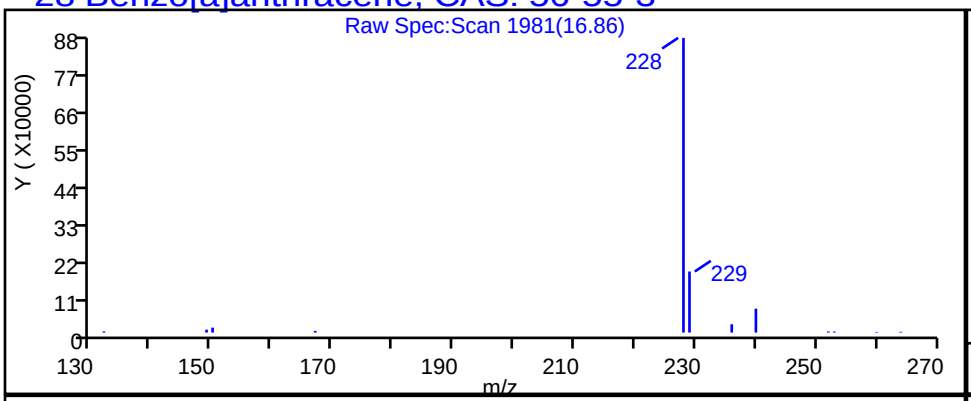


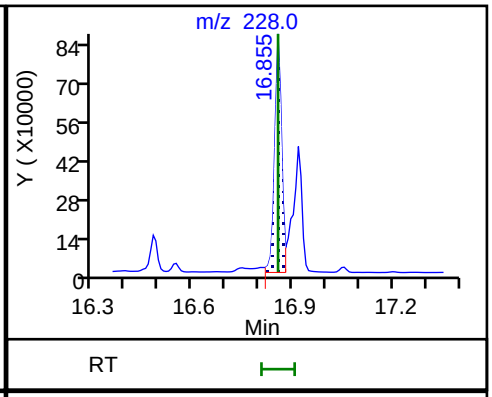


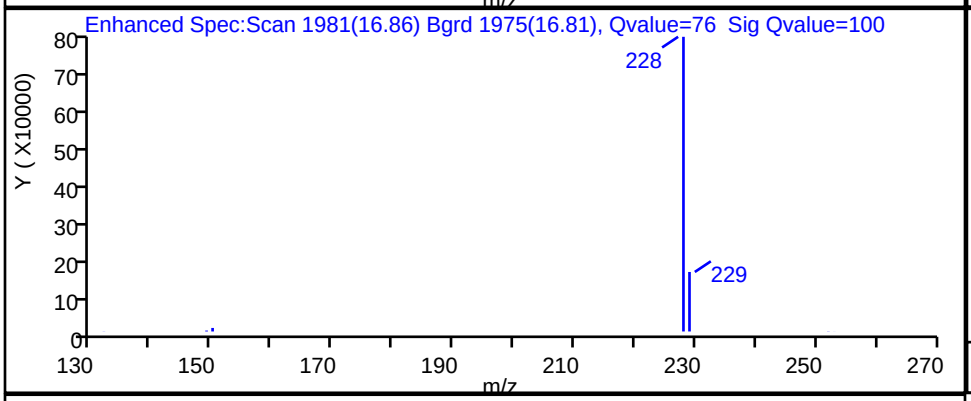
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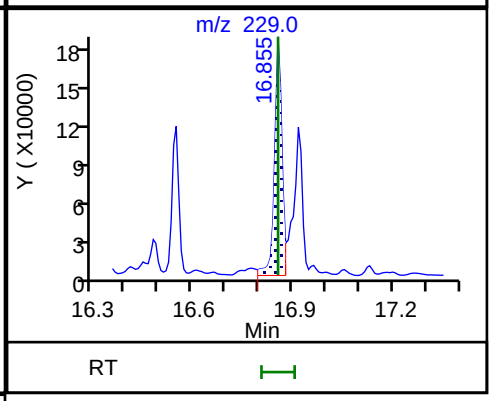
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Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

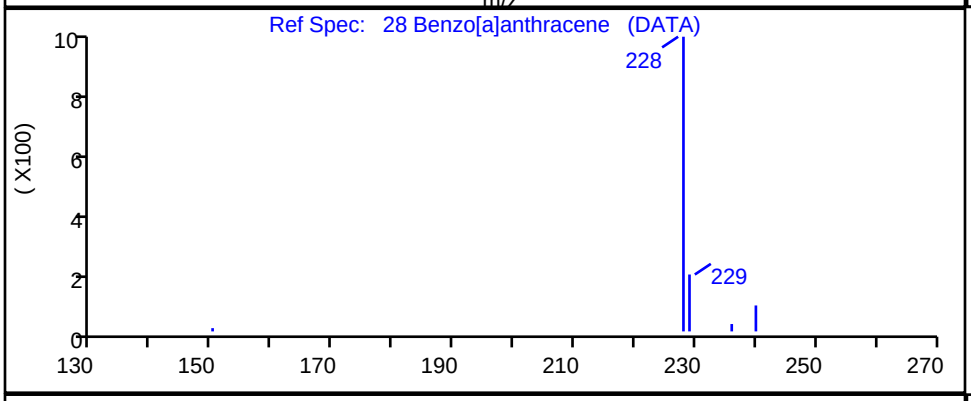
28 Benzo[a]anthracene, CAS: 56-55-3

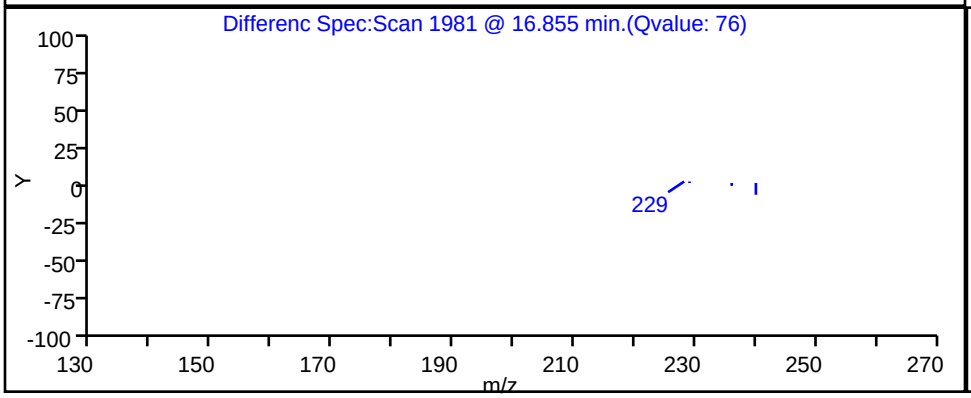


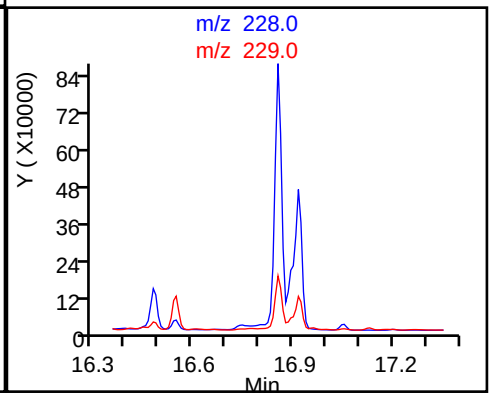












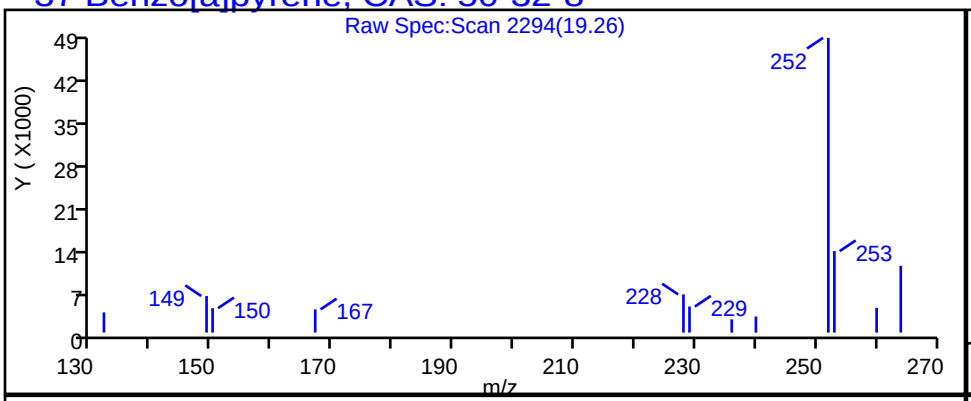
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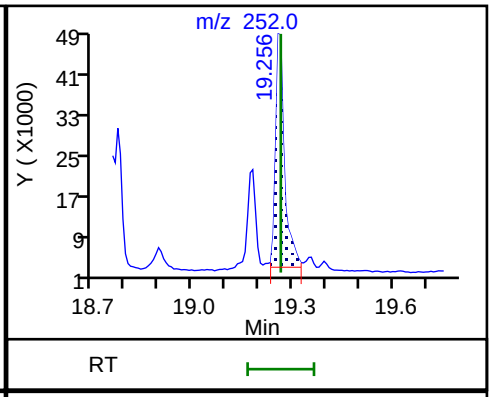
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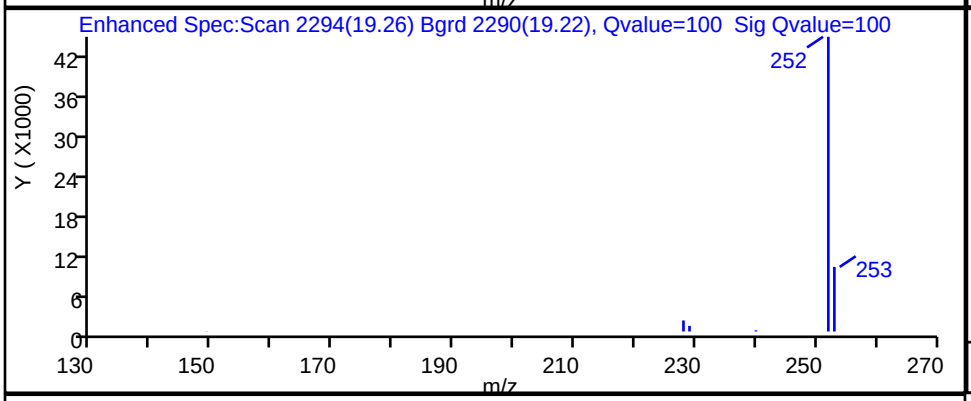
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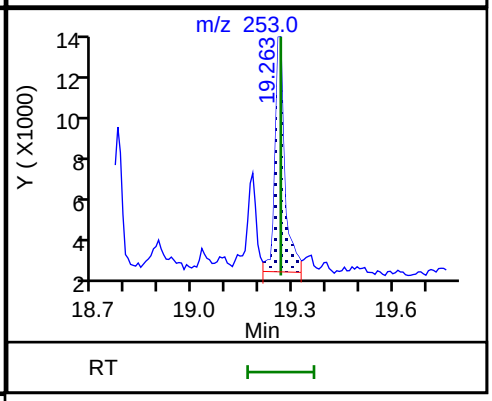
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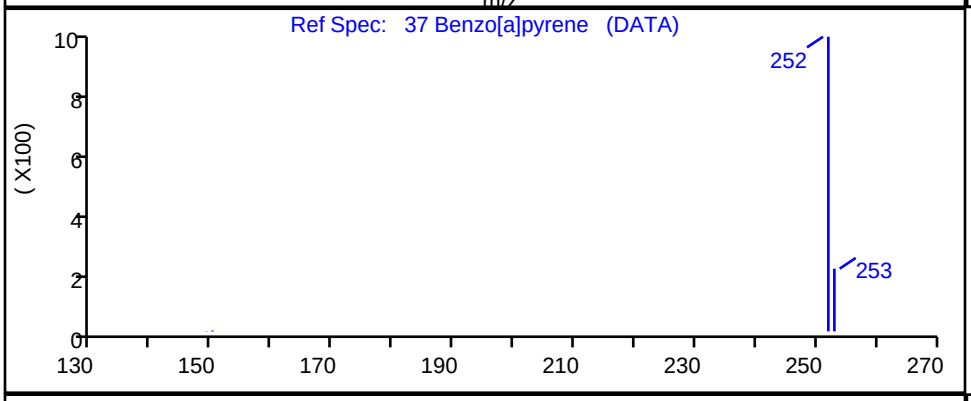
37 Benzo[a]pyrene, CAS: 50-32-8

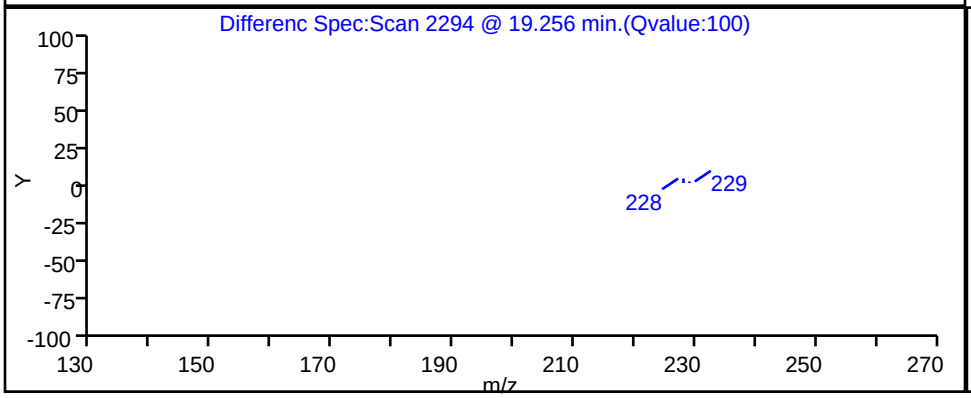


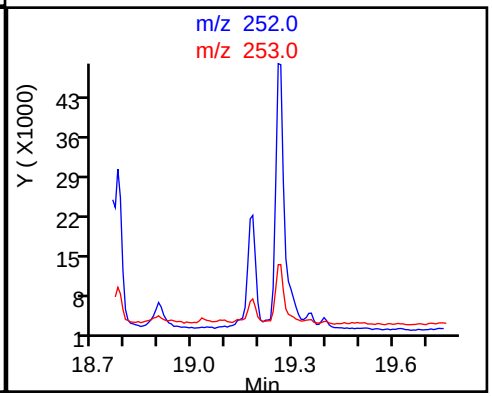








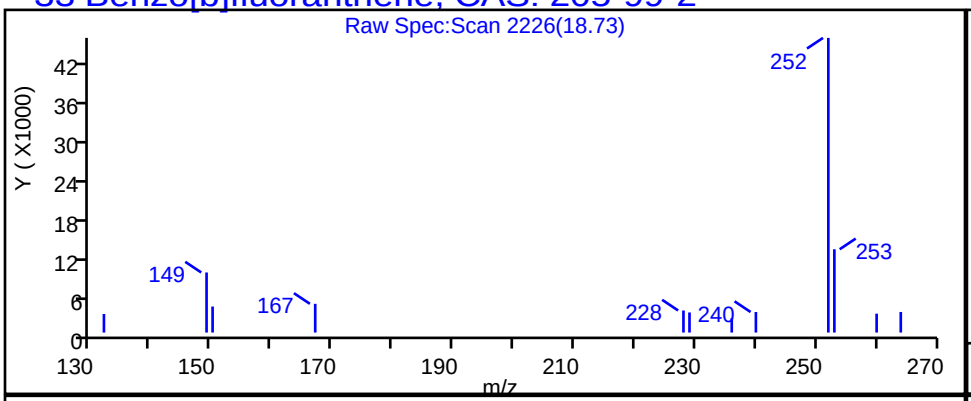


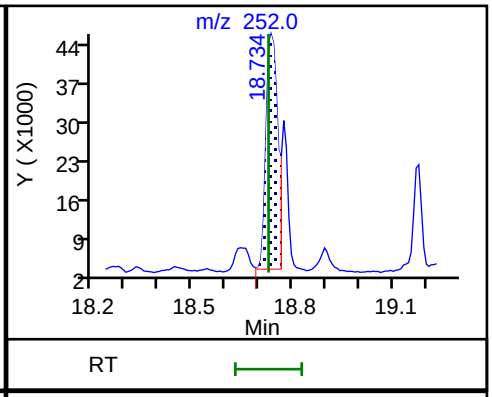


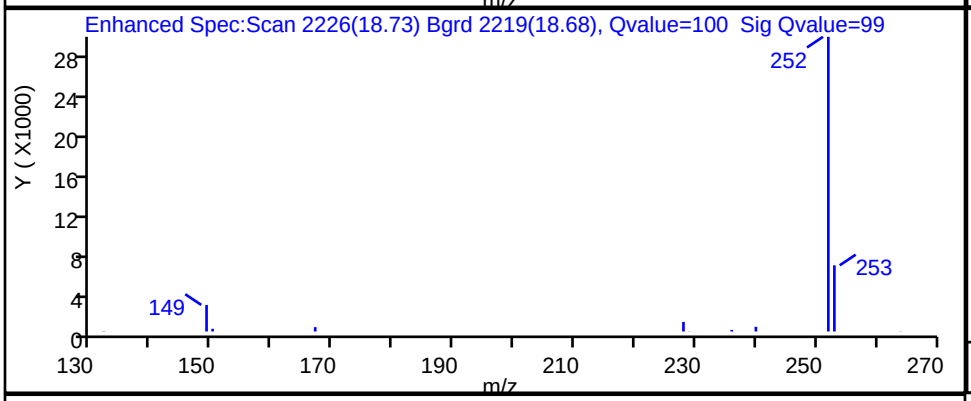
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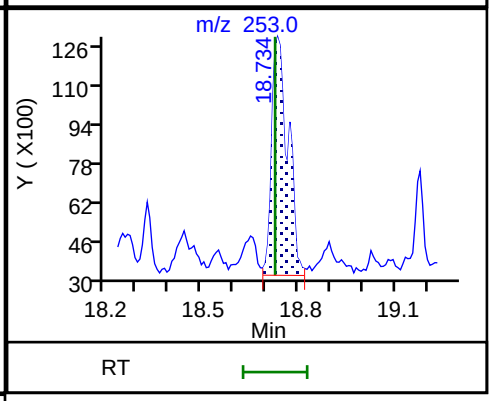
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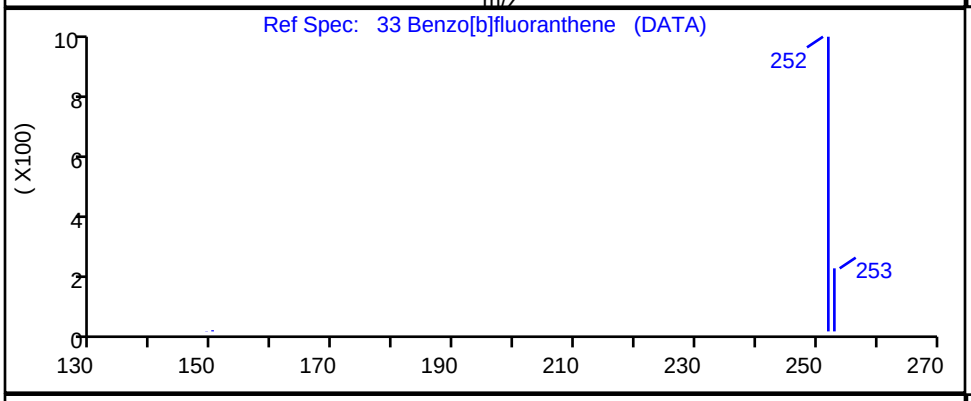
33 Benzo[b]fluoranthene, CAS: 205-99-2

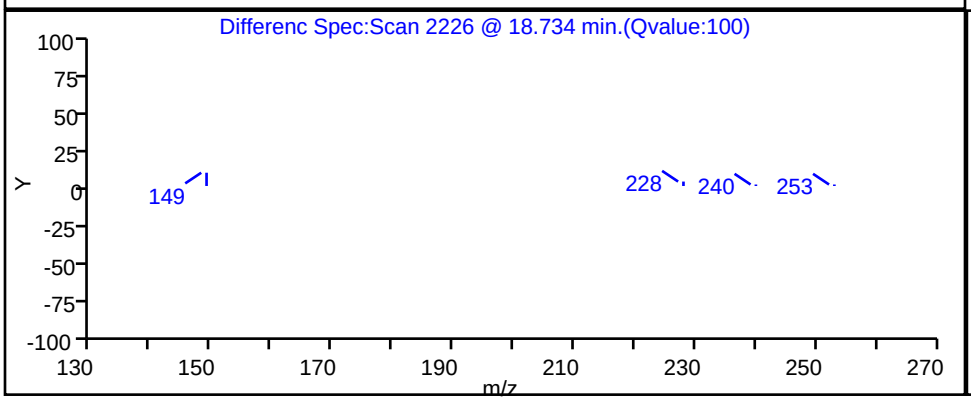


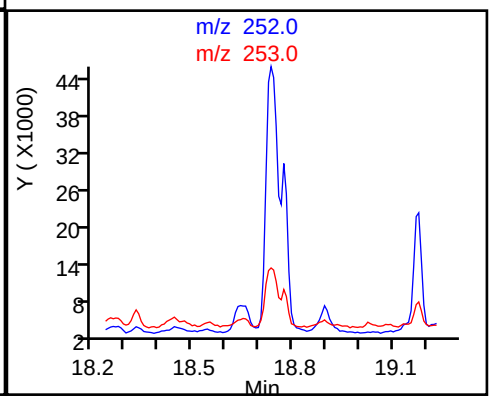












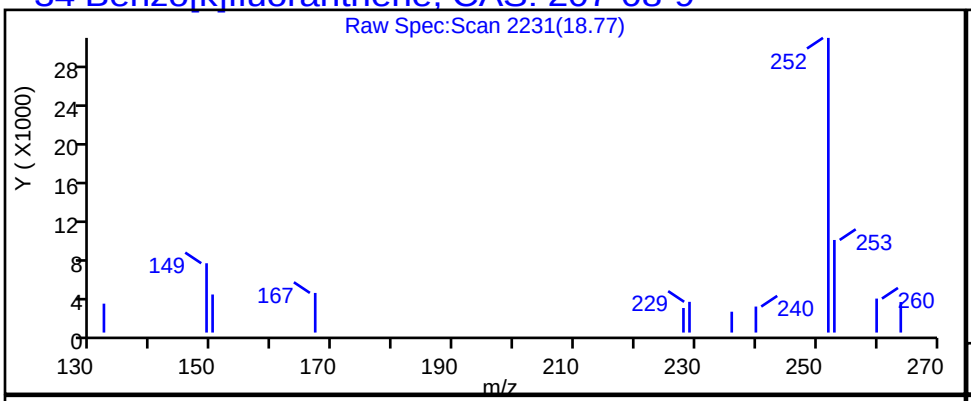
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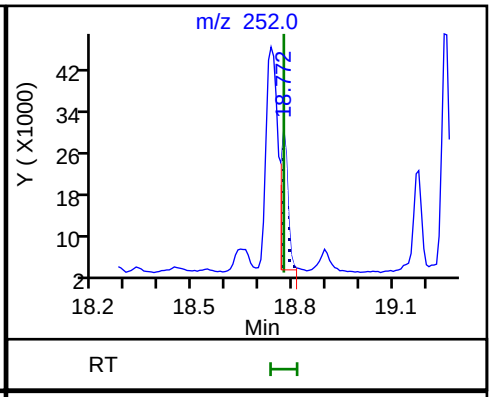
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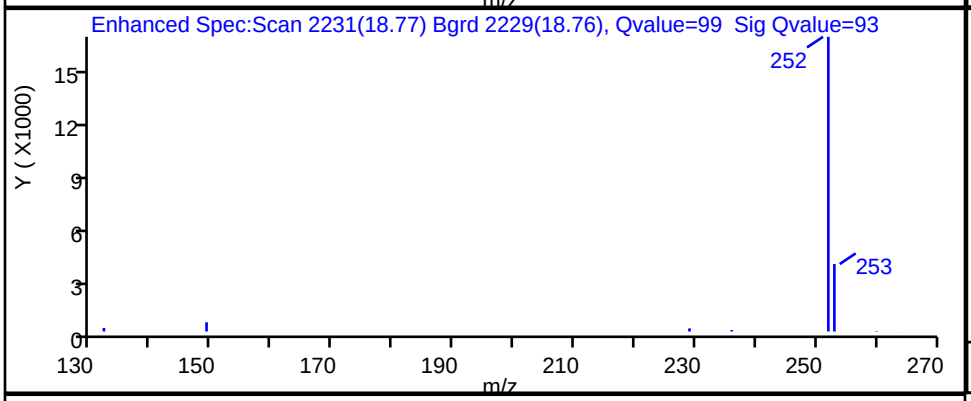
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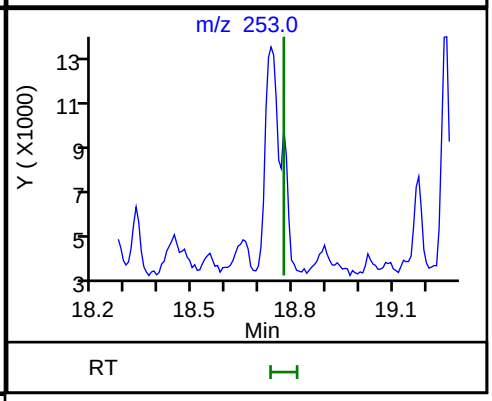
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Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

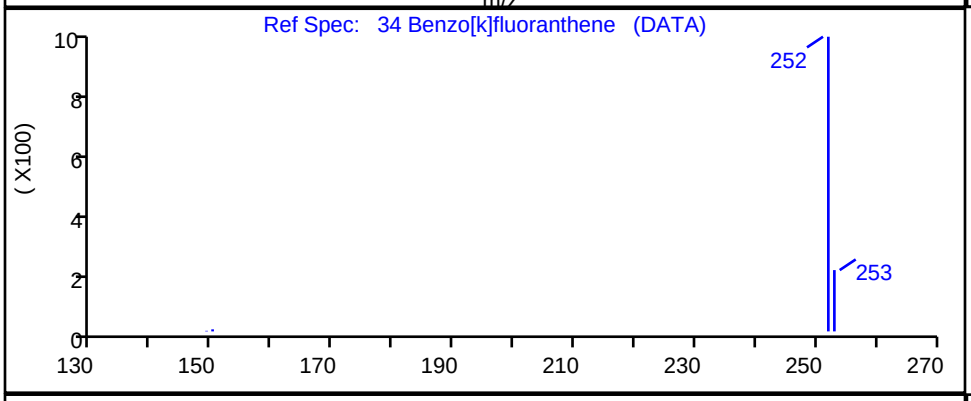
34 Benzo[k]fluoranthene, CAS: 207-08-9

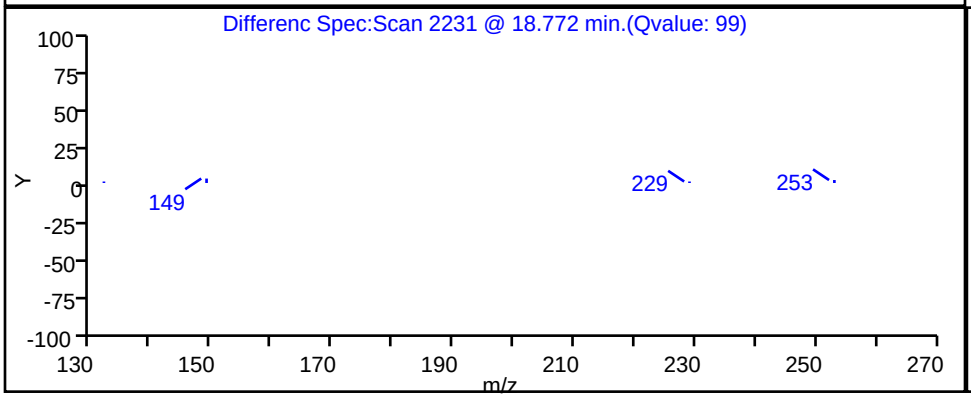


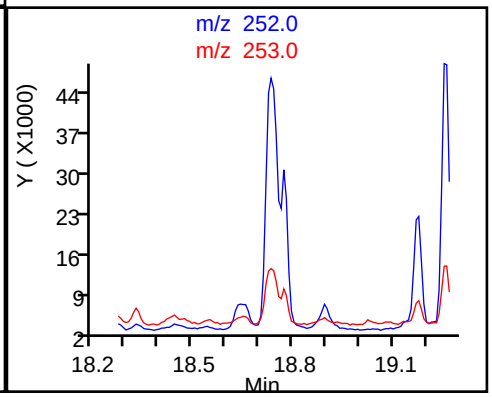








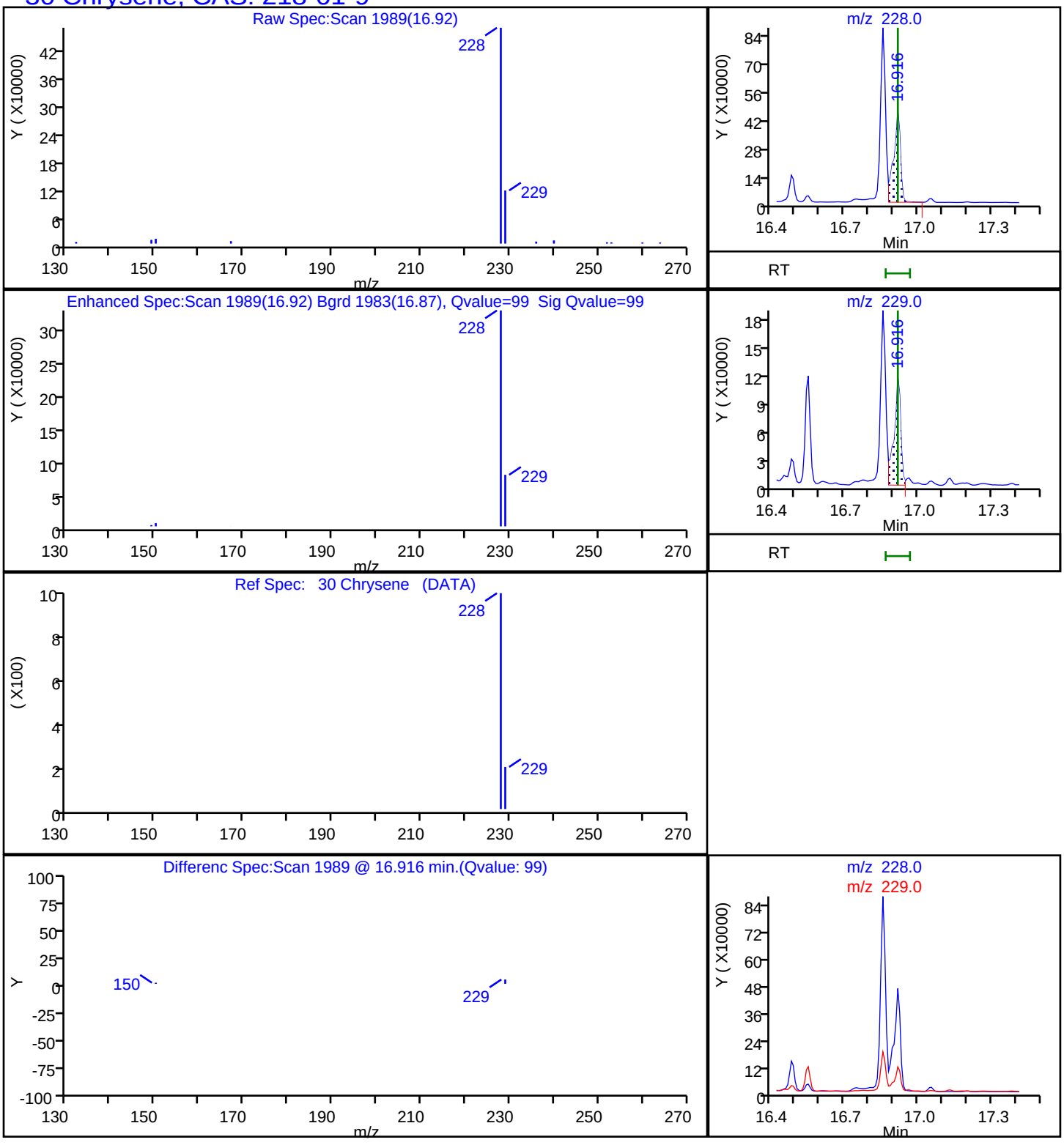




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D				
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9



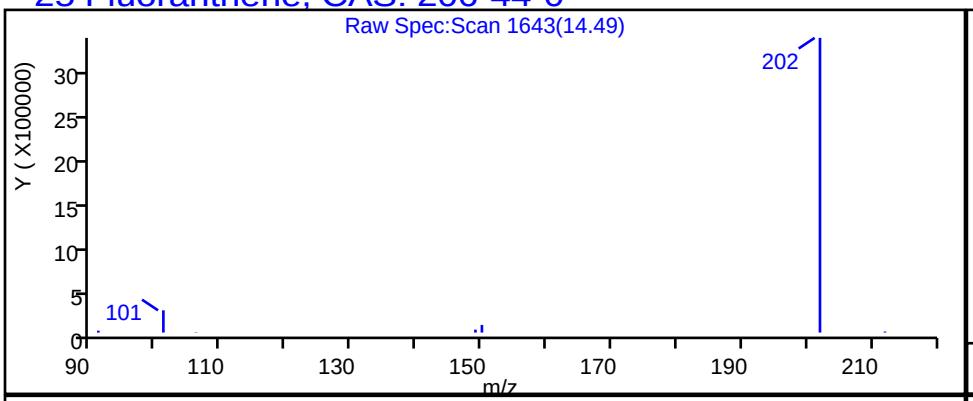
Report Date: 06-Jul-2021 20:01:15 Chrom Revision: 2.3 13-May-2021 07:57:40

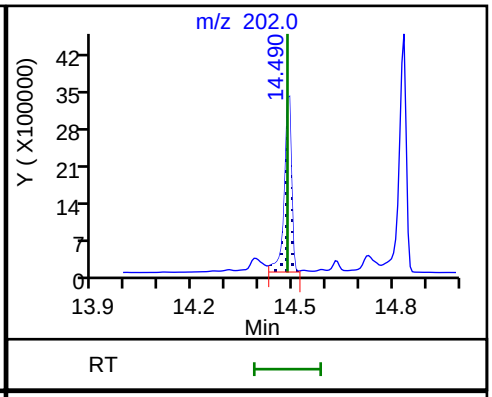
Eurofins Lancaster Laboratories Env, LLC

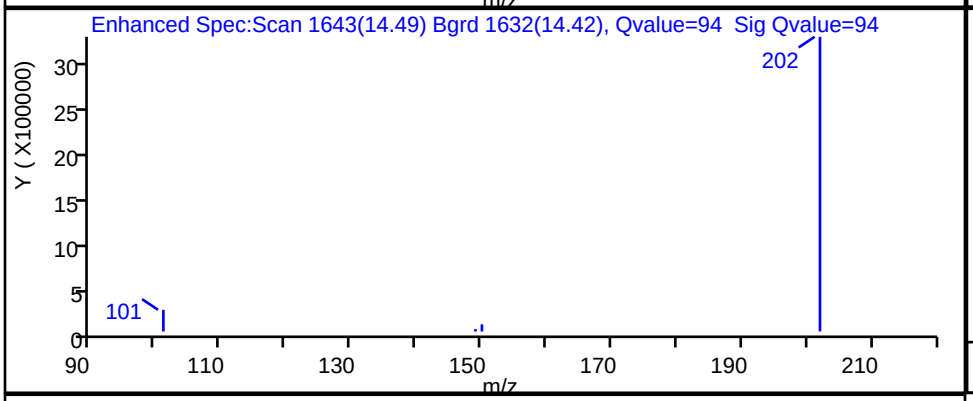
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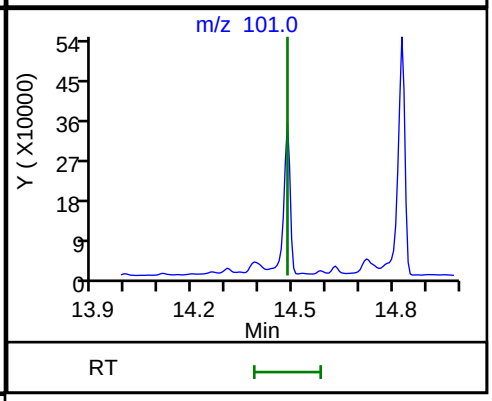
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

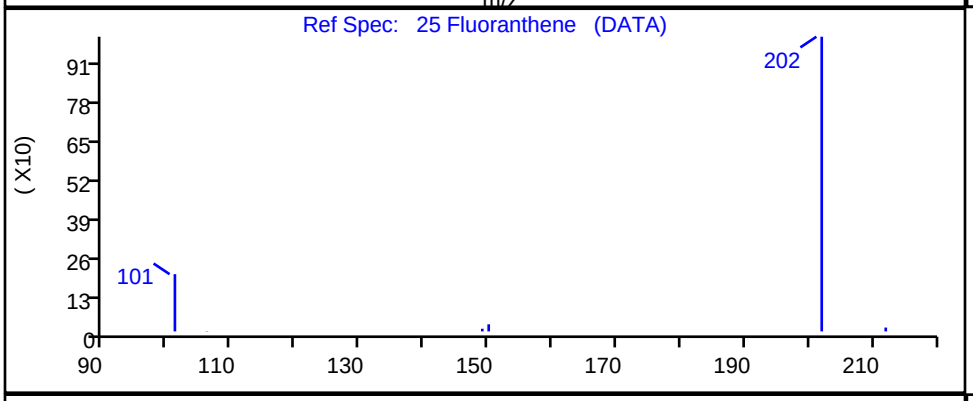
25 Fluoranthene, CAS: 206-44-0

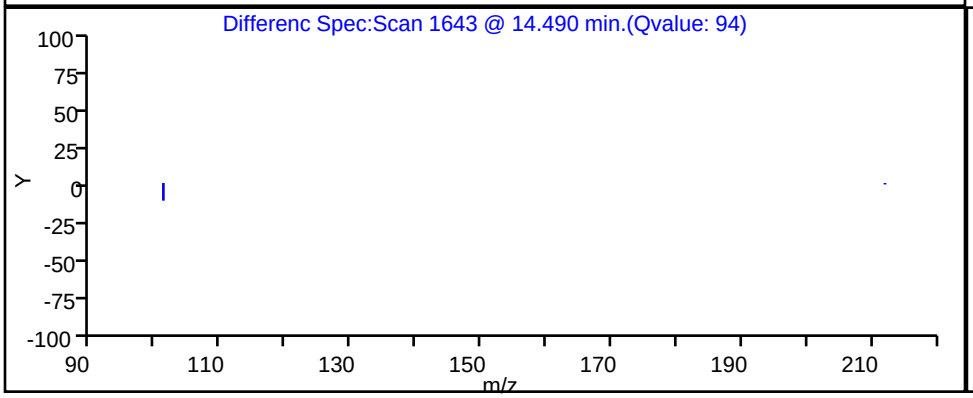


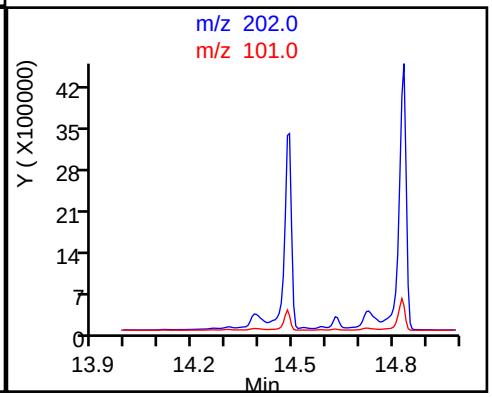












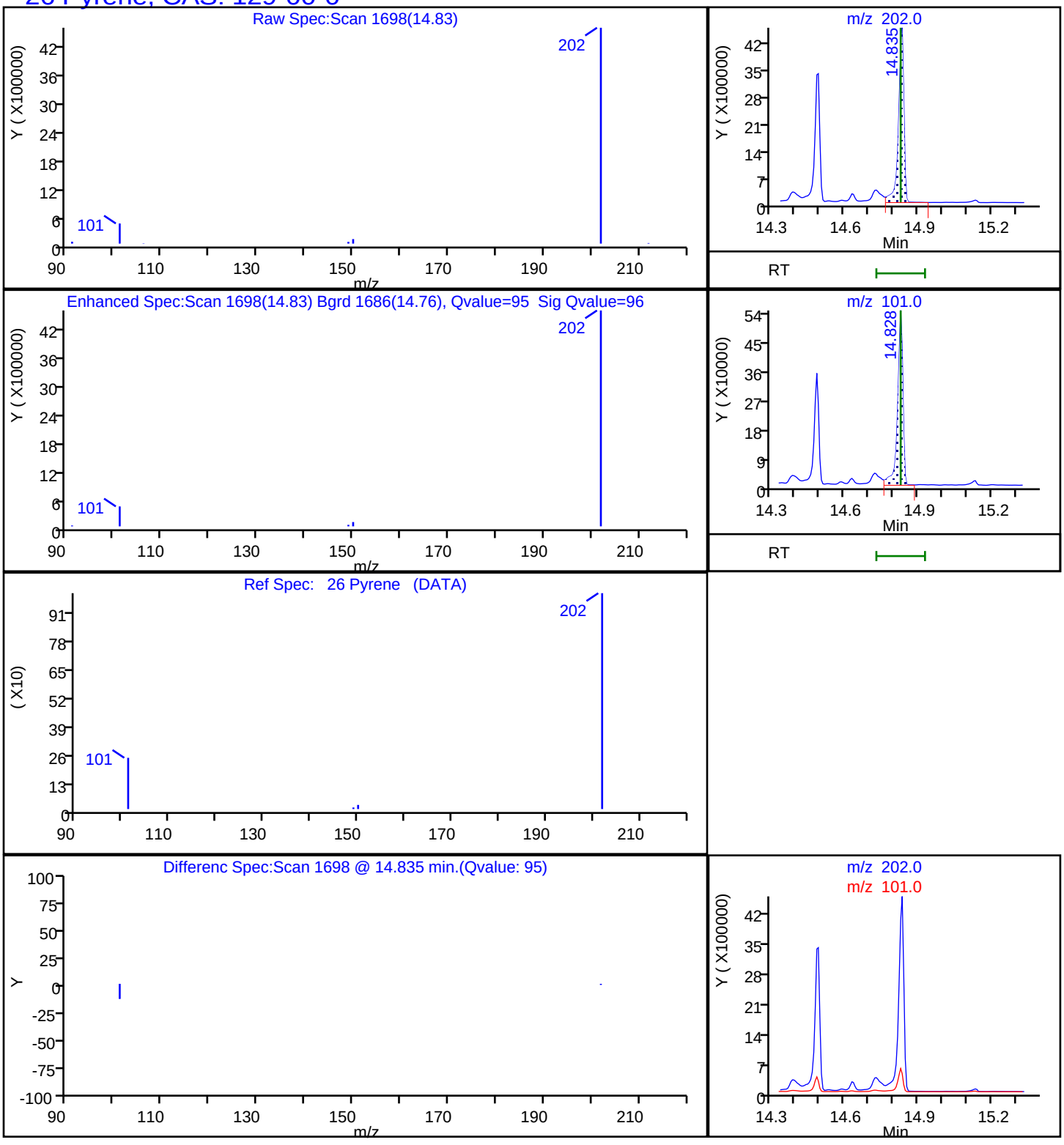
Report Date: 06-Jul-2021 20:01:15 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D

Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17
Client ID:	MW-13S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

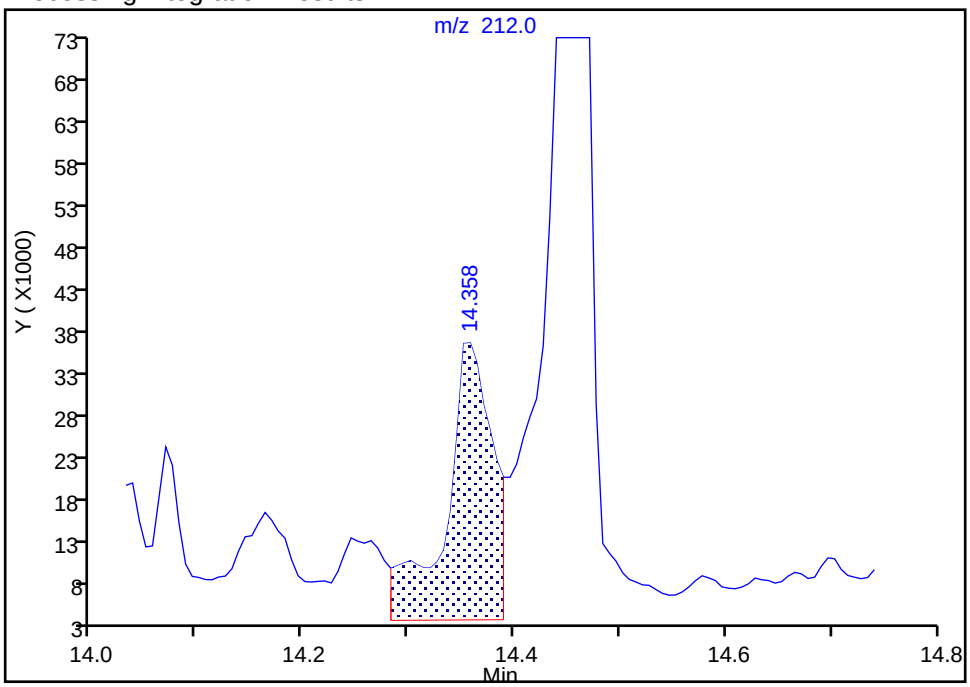
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Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

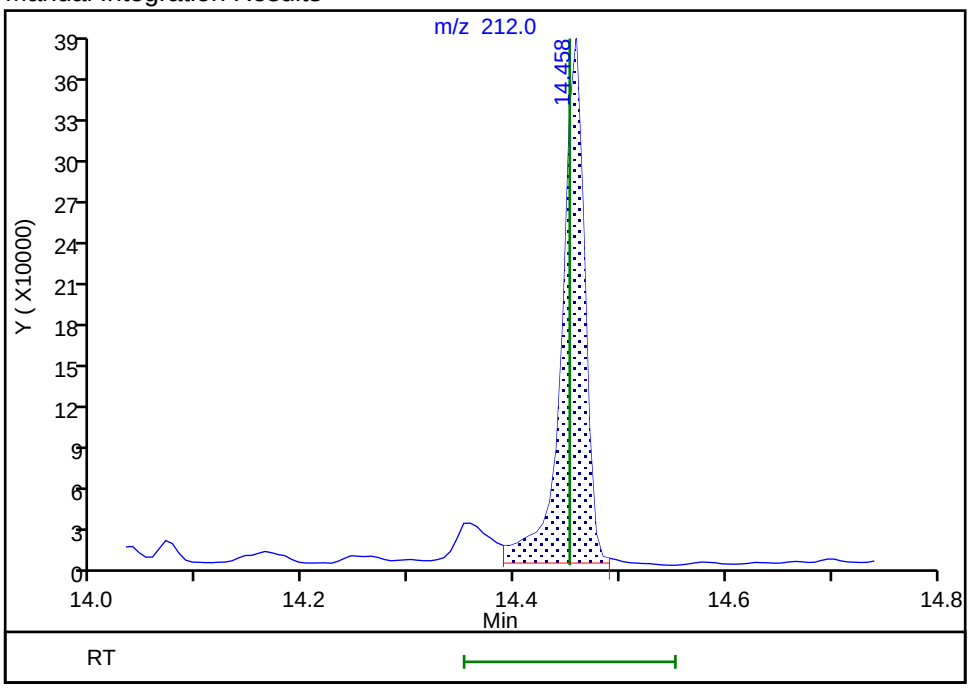
Processing Integration Results

RT: 14.36
Area: 99245
Amount: 0.045344
Amount Units: ug/ml



Manual Integration Results

RT: 14.46
Area: 560166
Amount: 0.255936
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:45:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

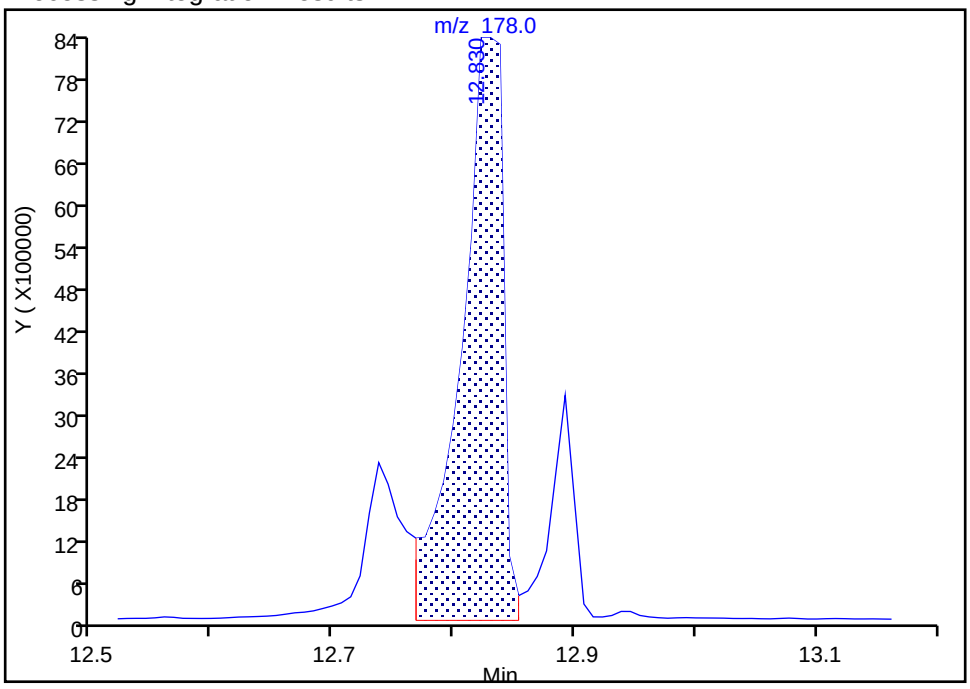
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Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

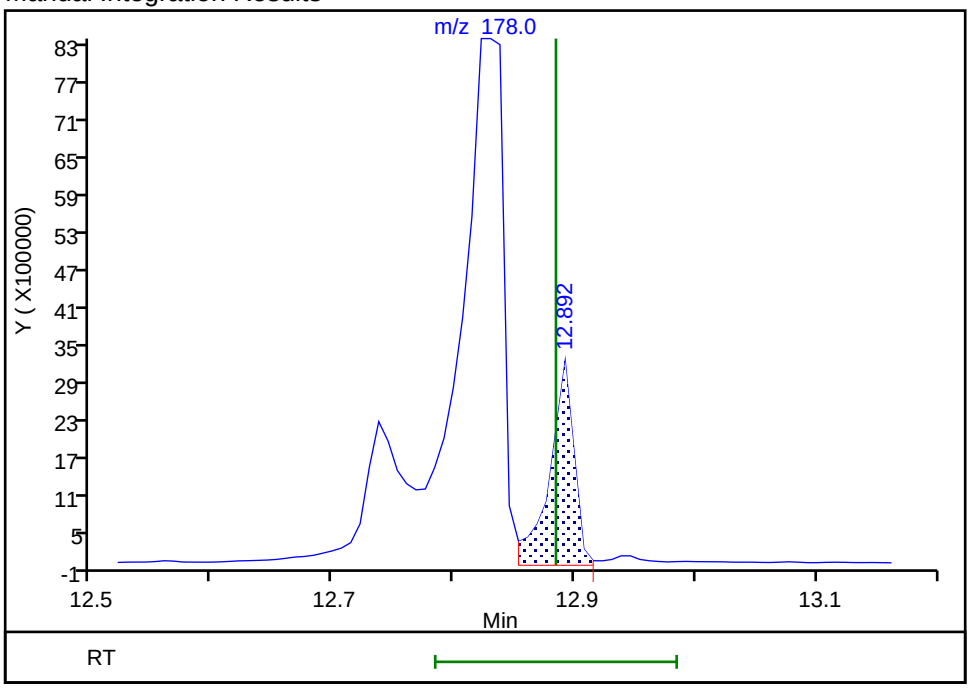
Processing Integration Results

RT: 12.83
Area: 20296896
Amount: 9.583127
Amount Units: ug/ml



Manual Integration Results

RT: 12.89
Area: 4522979
Amount: 2.135513
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:45:04

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

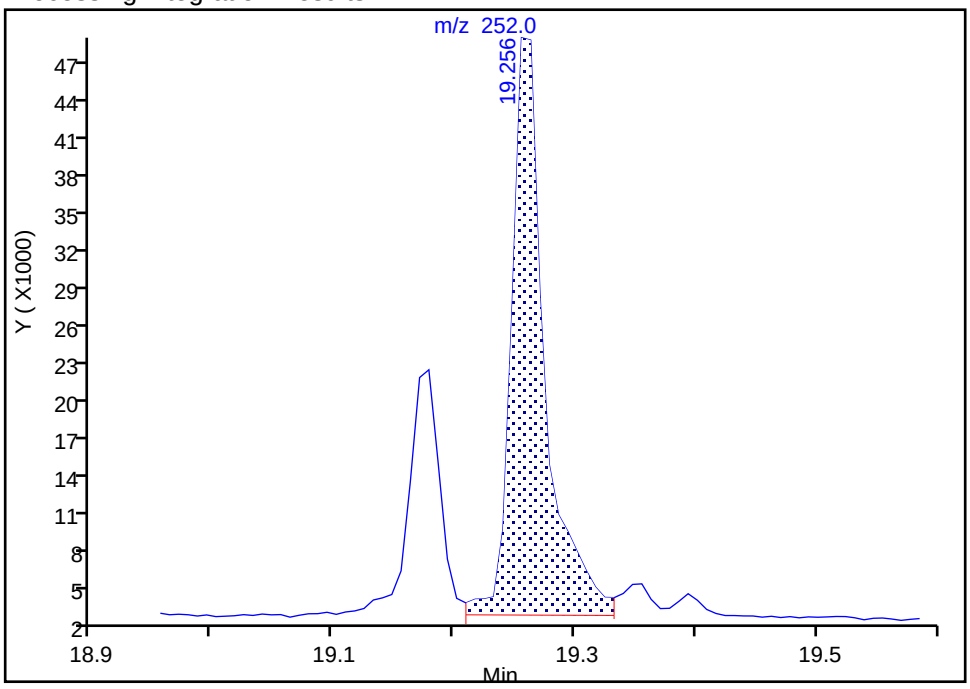
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D				
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

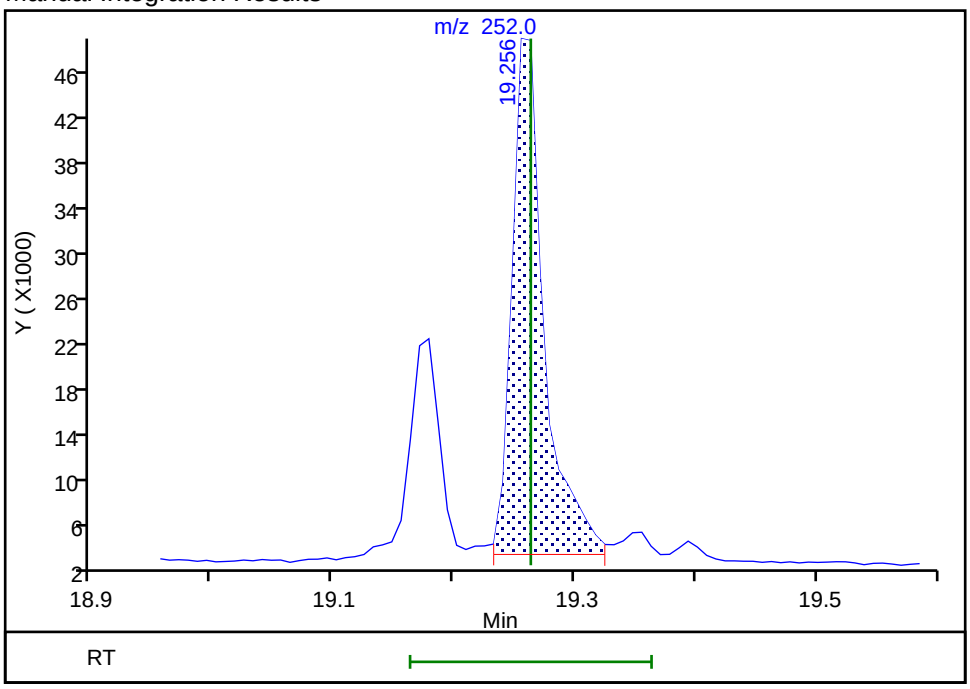
Processing Integration Results

RT: 19.26
Area: 88697
Amount: 0.023582
Amount Units: ug/ml



Manual Integration Results

RT: 19.26
Area: 83379
Amount: 0.022168
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:45:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

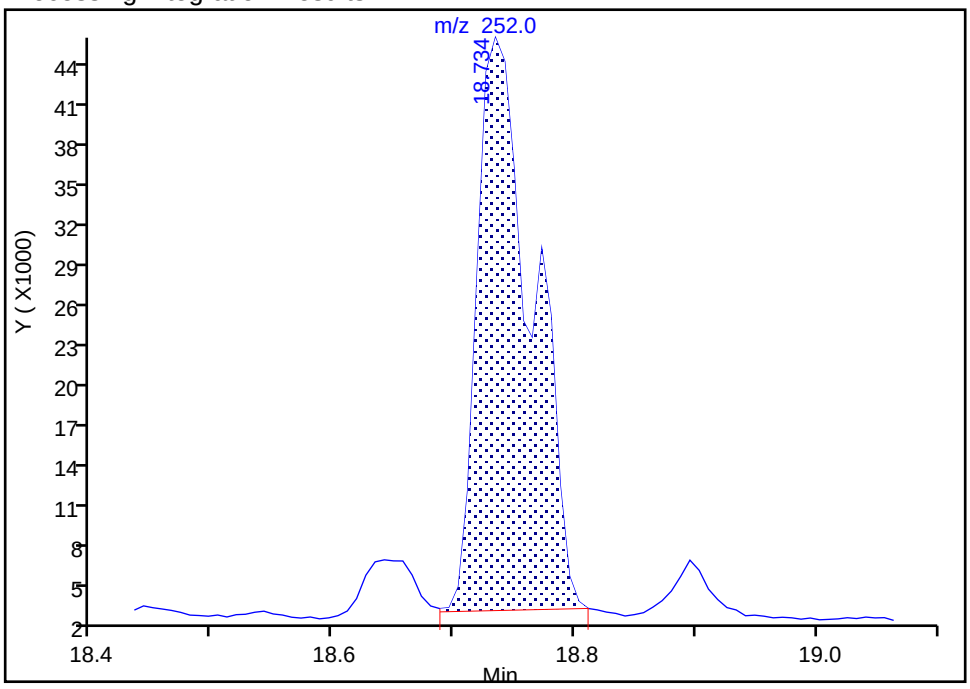
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Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

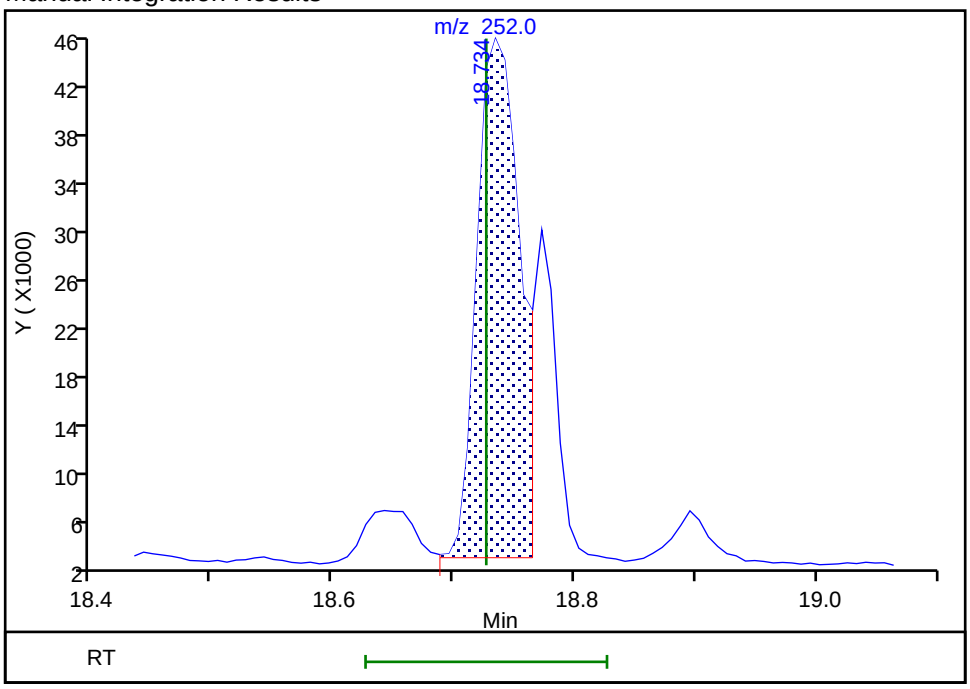
Processing Integration Results

RT: 18.73
Area: 136349
Amount: 0.031513
Amount Units: ug/ml



Manual Integration Results

RT: 18.73
Area: 104011
Amount: 0.024039
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:45:36

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

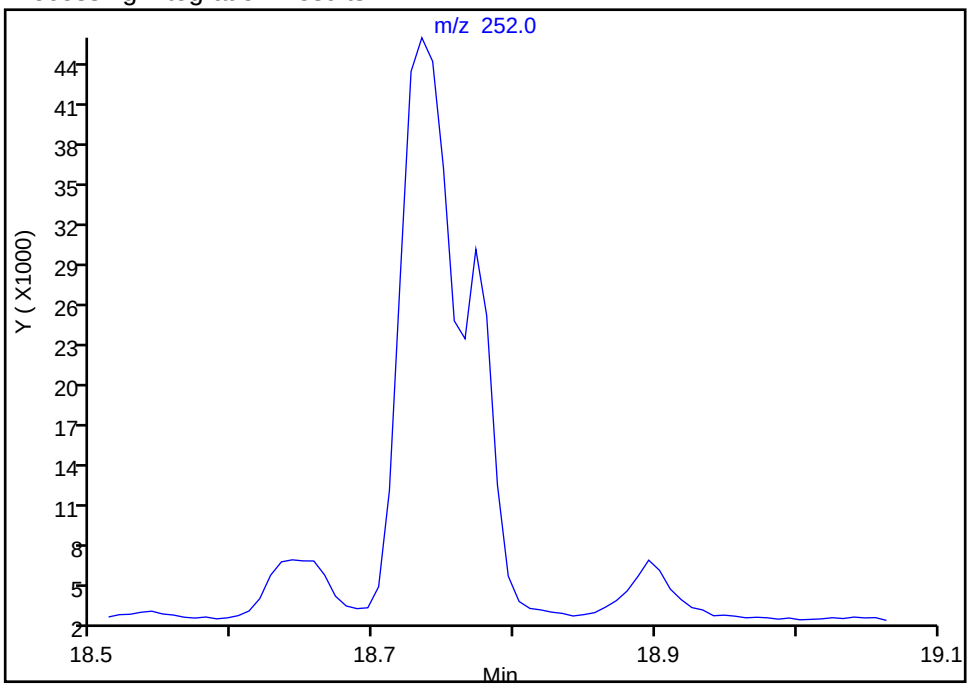
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D				
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

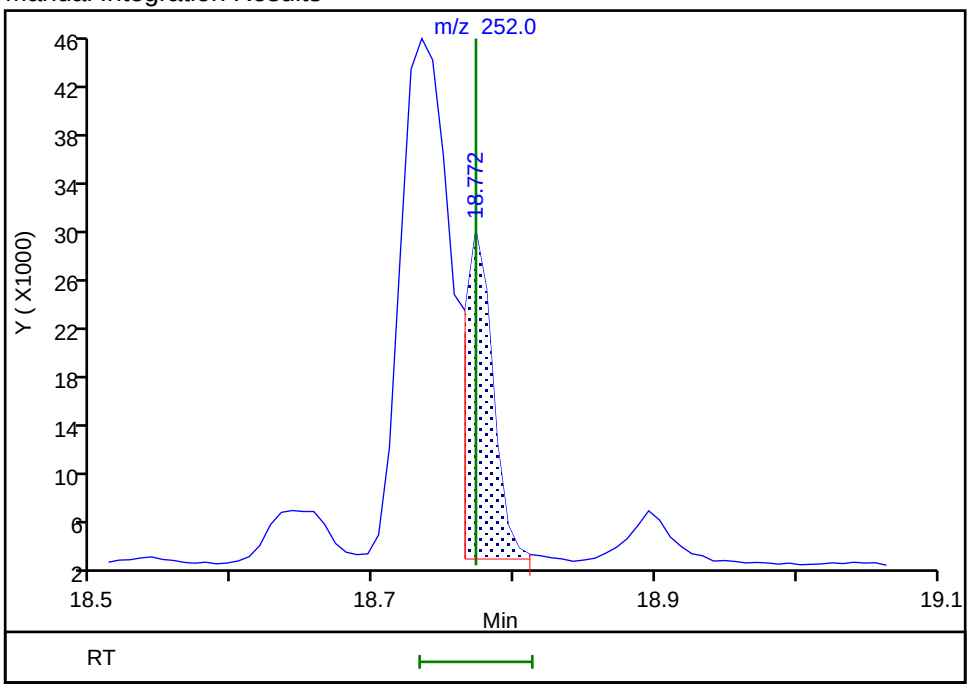
Not Detected
Expected RT: 18.77

Processing Integration Results



Manual Integration Results

RT: 18.77
Area: 33677
Amount: 0.007877
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:45:46
Audit Action: Manually Integrated Audit Reason: Baseline

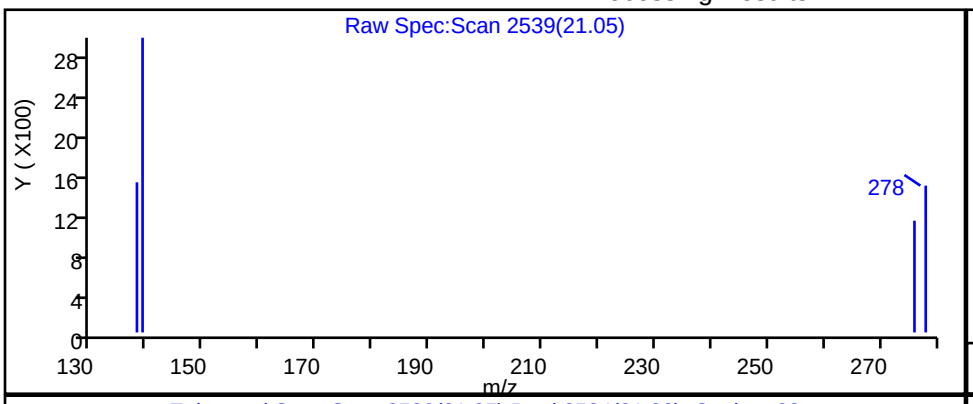
User Disabled Compound Report

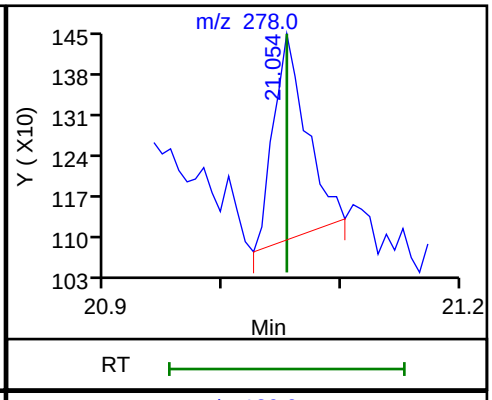
Eurofins Lancaster Laboratories Env, LLC

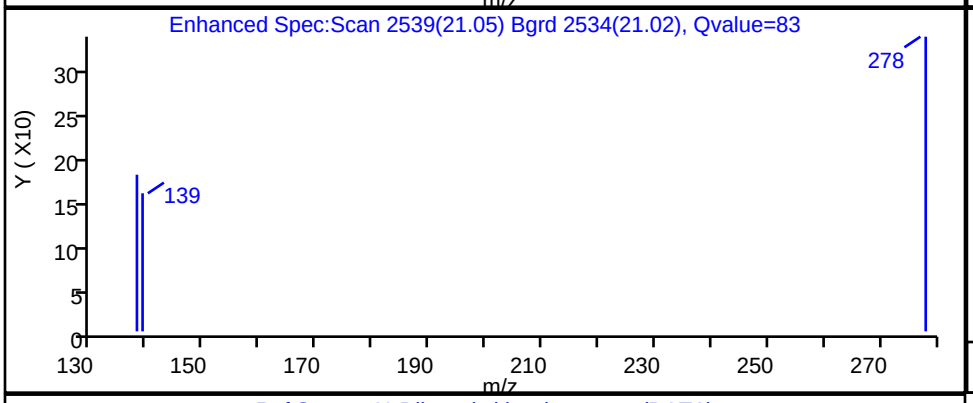
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D				
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

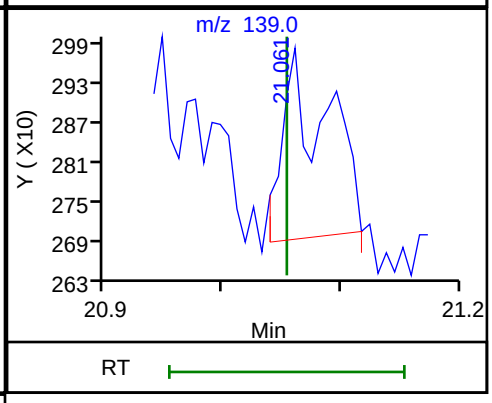
41 Dibenz(a,h)anthracene, CAS: 53-70-3

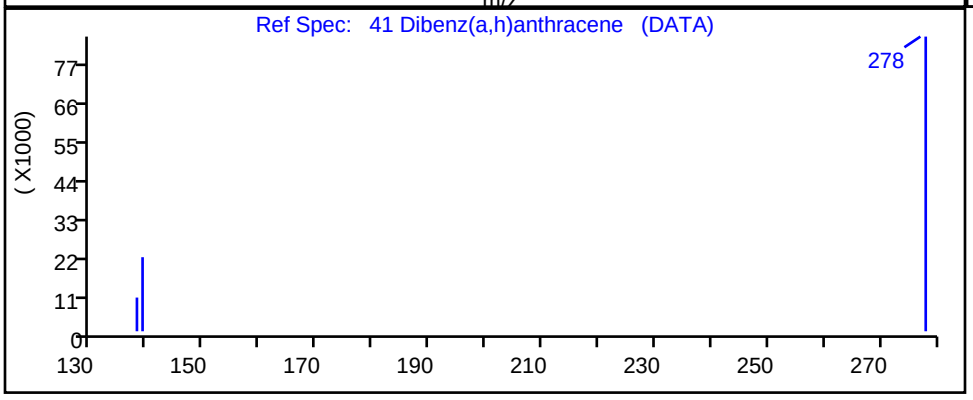
Processing Results











RT	Mass	Response	Amount
21.05	278.00	697	0.006854
21.06	139.00	739	

Reviewer: transuea, 06-Jul-2021 19:46:01

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

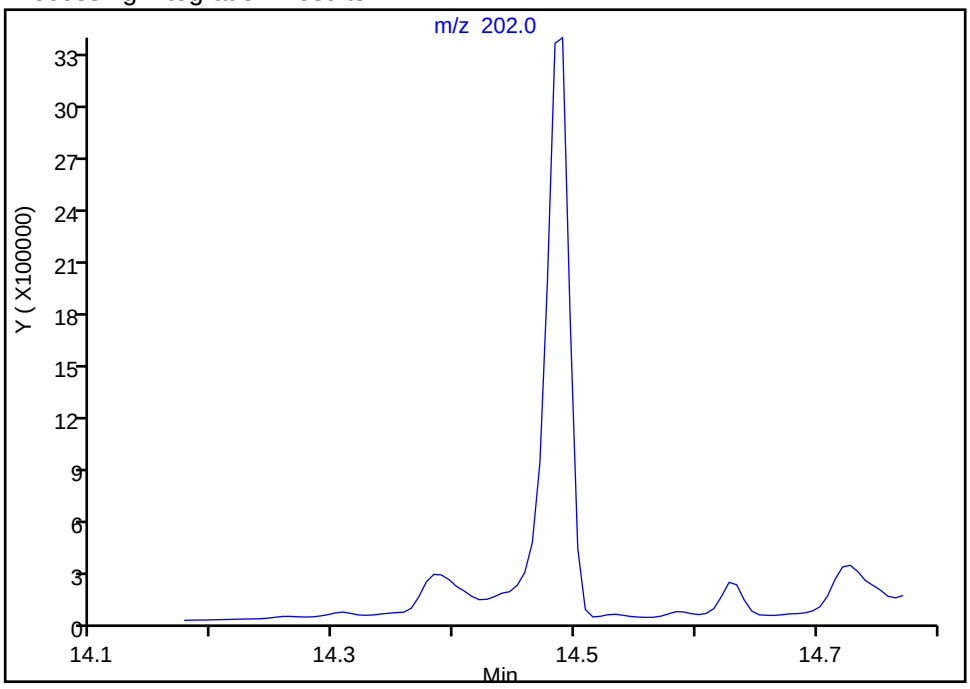
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D				
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

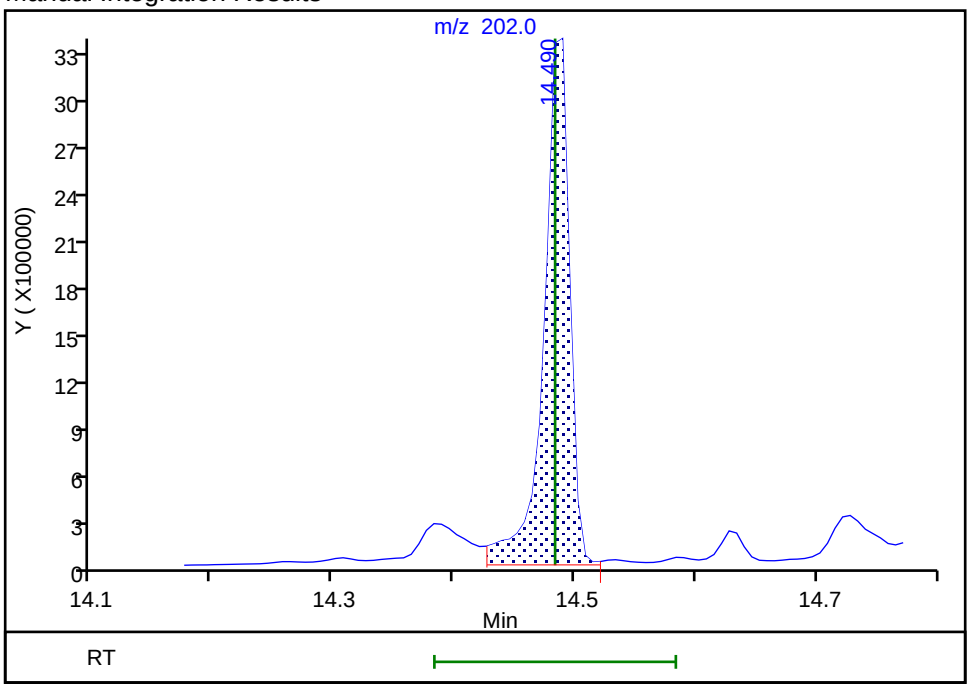
Not Detected
Expected RT: 14.48

Processing Integration Results



Manual Integration Results

RT: 14.49
Area: 4987444
Amount: 1.983315
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:45:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

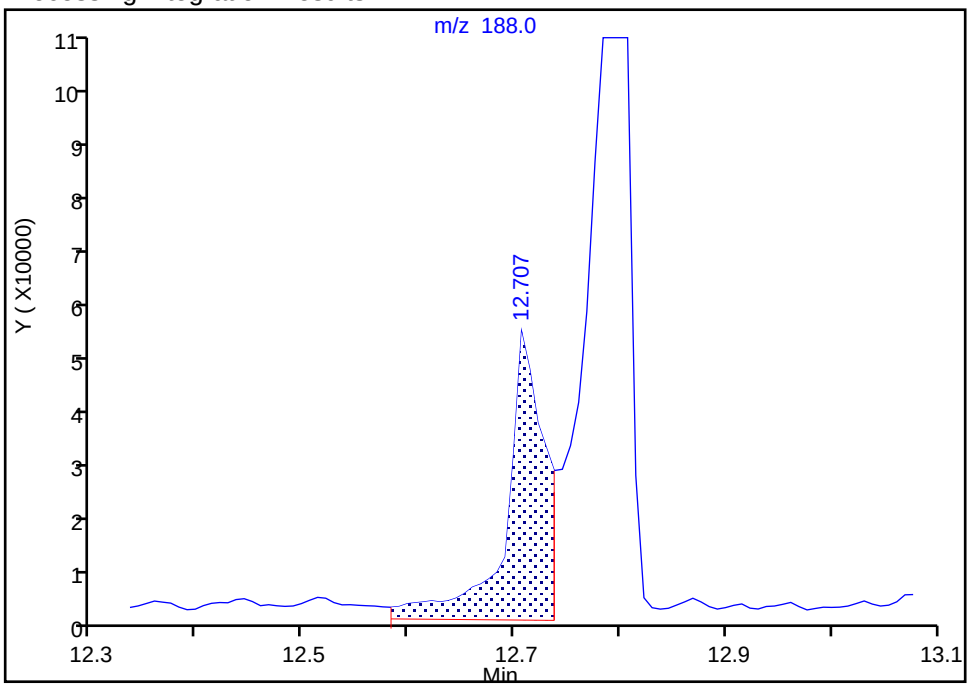
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0380.D		
Injection Date:	06-Jul-2021 10:59:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-17-A	Lab Sample ID:	410-45105-17
Client ID:	MW-13S-20210624		
Operator ID:	jmg00346	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

* 20 Phenanthrene-d10, CAS: 1517-22-2

Signal: 1

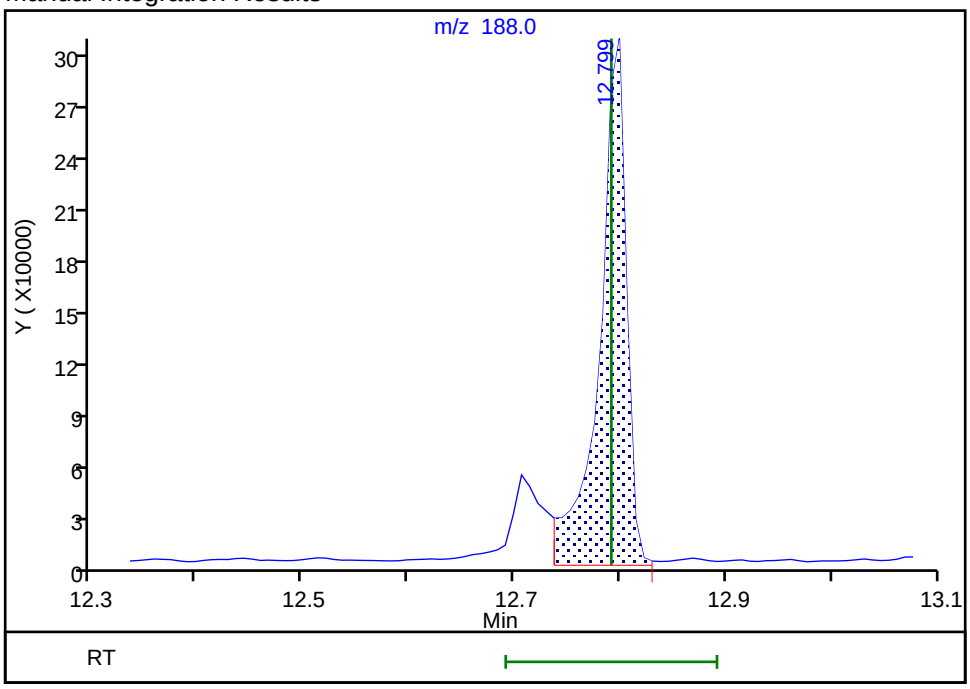
Processing Integration Results

RT: 12.71
Area: 128066
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 12.80
Area: 531858
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:44:48

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-13S-20210624 DL Lab Sample ID: 410-45105-17 DL

Matrix: Groundwater Lab File ID: NG0381.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 10:53

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 244.5(mL) Date Analyzed: 07/06/2021 11:29

Con. Extract Vol.: 1(mL) Dilution Factor: 20

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	58		1.0	0.20
86-73-7	Fluorene	23		1.0	0.20
91-20-3	Naphthalene	130		1.4	0.61
85-01-8	Phenanthrene	44		1.4	0.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	83		36-111
93951-69-0	Fluoranthene-d10 (Surr)	109		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0381.D
Lims ID: 410-45105-A-17-A DL
Client ID: MW-13S-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 11:29:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 410-45105-A-17-A
Misc. Info.: 410-0033556-012
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:47:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.066	6.053	0.013	97	170330	0.2500	
* 5 Naphthalene-d8	136	8.028	8.027	0.001	72	617869	0.2500	
6 Naphthalene	128	8.053	8.052	0.001	100	3918321	1.54	
$ 9 1-Methylnaphthalene-d10	152	9.286	9.286	0.000	41	13690	0.0104	
12 Acenaphthylene	152	10.638	10.638	0.000	99	72207	0.0267	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	96	351262	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	92	1111011	0.7093	
17 Fluorene	166	11.626	11.625	0.000	99	573461	0.2848	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	664844	0.2500	
21 Phenanthrene	178	12.823	12.822	0.001	100	1605096	0.5330	
22 Anthracene	178	12.884	12.884	0.000	100	341692	0.1291	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	97	37197	0.0136	
25 Fluoranthene	202	14.484	14.484	0.000	96	351377	0.1118	
26 Pyrene	202	14.822	14.828	-0.006	96	486606	0.1300	
28 Benzo[a]anthracene	228	16.848	16.855	-0.007	82	73887	0.0202	
* 29 Chrysene-d12	240	16.871	16.870	0.001	82	741978	0.2500	
30 Chrysene	228	16.909	16.917	-0.007	100	48103	0.0140	
33 Benzo[b]fluoranthene	252	18.734	18.734	0.007	99	4887	0.001302	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.218	19.225	-0.007	96	26425	0.009070	
* 38 Perylene-d12	264	19.348	19.355	-0.007	95	789357	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

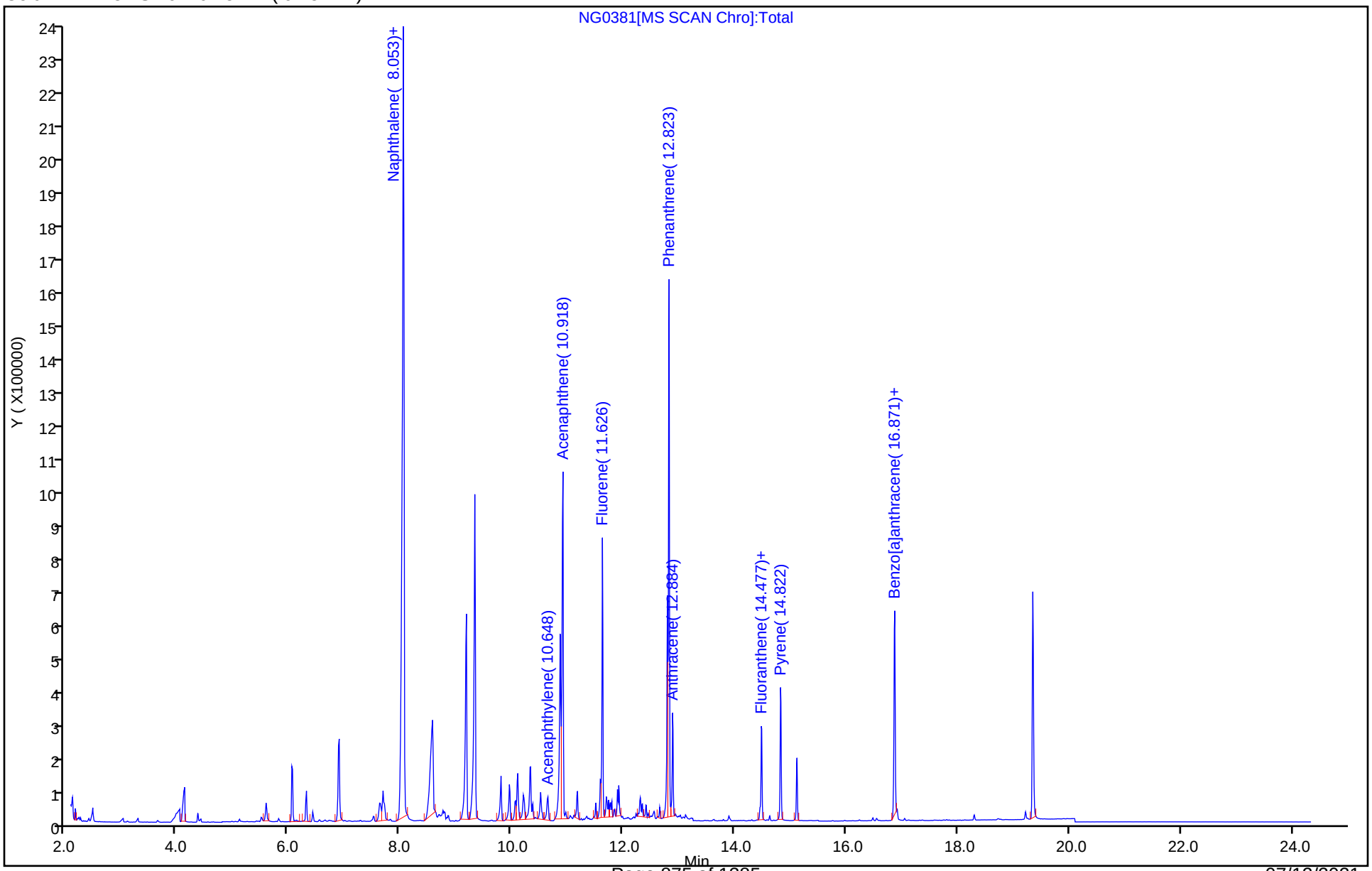
Report Date: 06-Jul-2021 20:01:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0381.D

Injection Date:	06-Jul-2021 11:29:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-17-A DL	Lab Sample ID:	410-45105-17	Worklist Smp#:	12
Client ID:	MW-13S-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	12
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



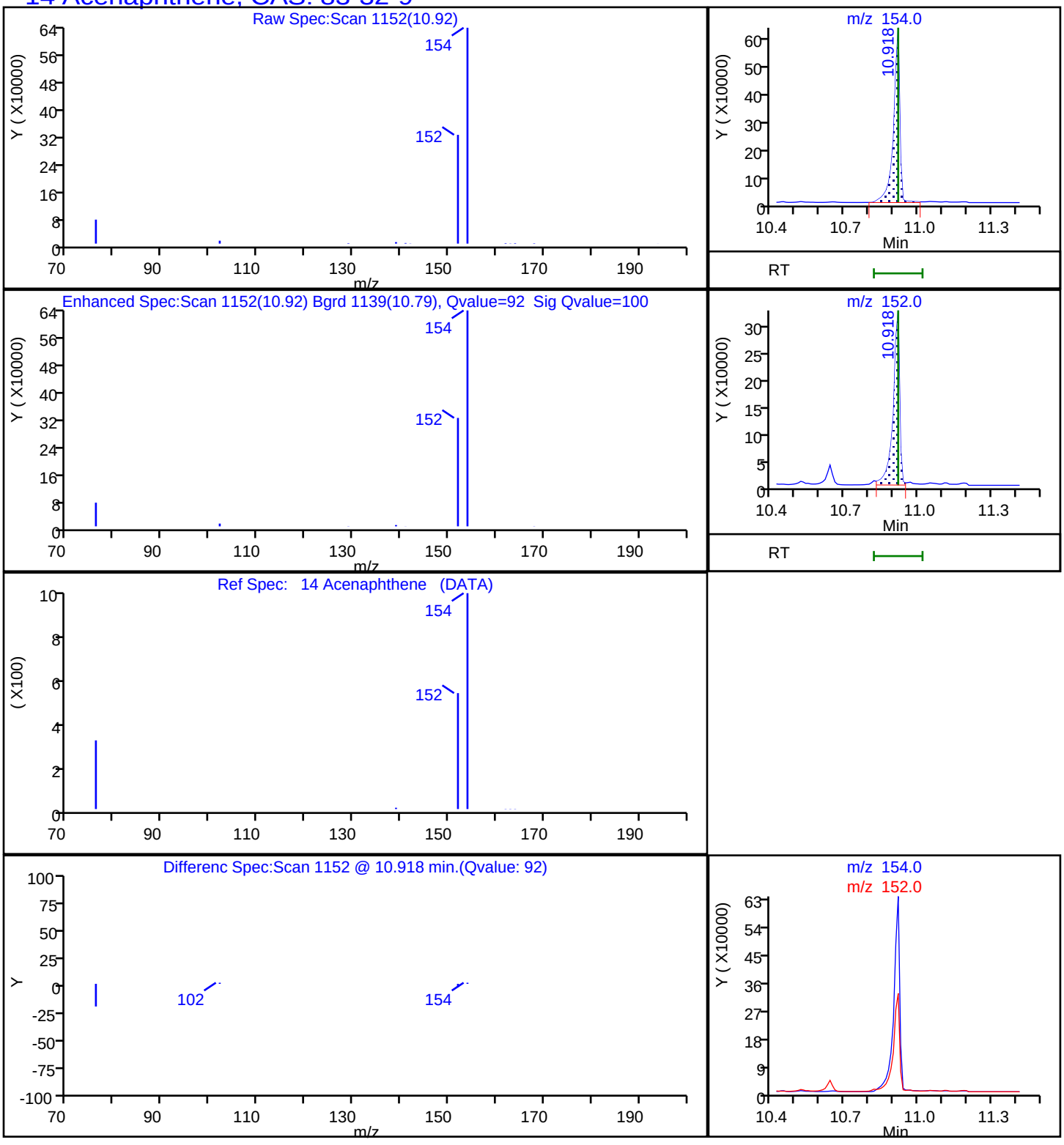
Report Date: 06-Jul-2021 20:01:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0381.D

Injection Date:	06-Jul-2021 11:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A DL	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9



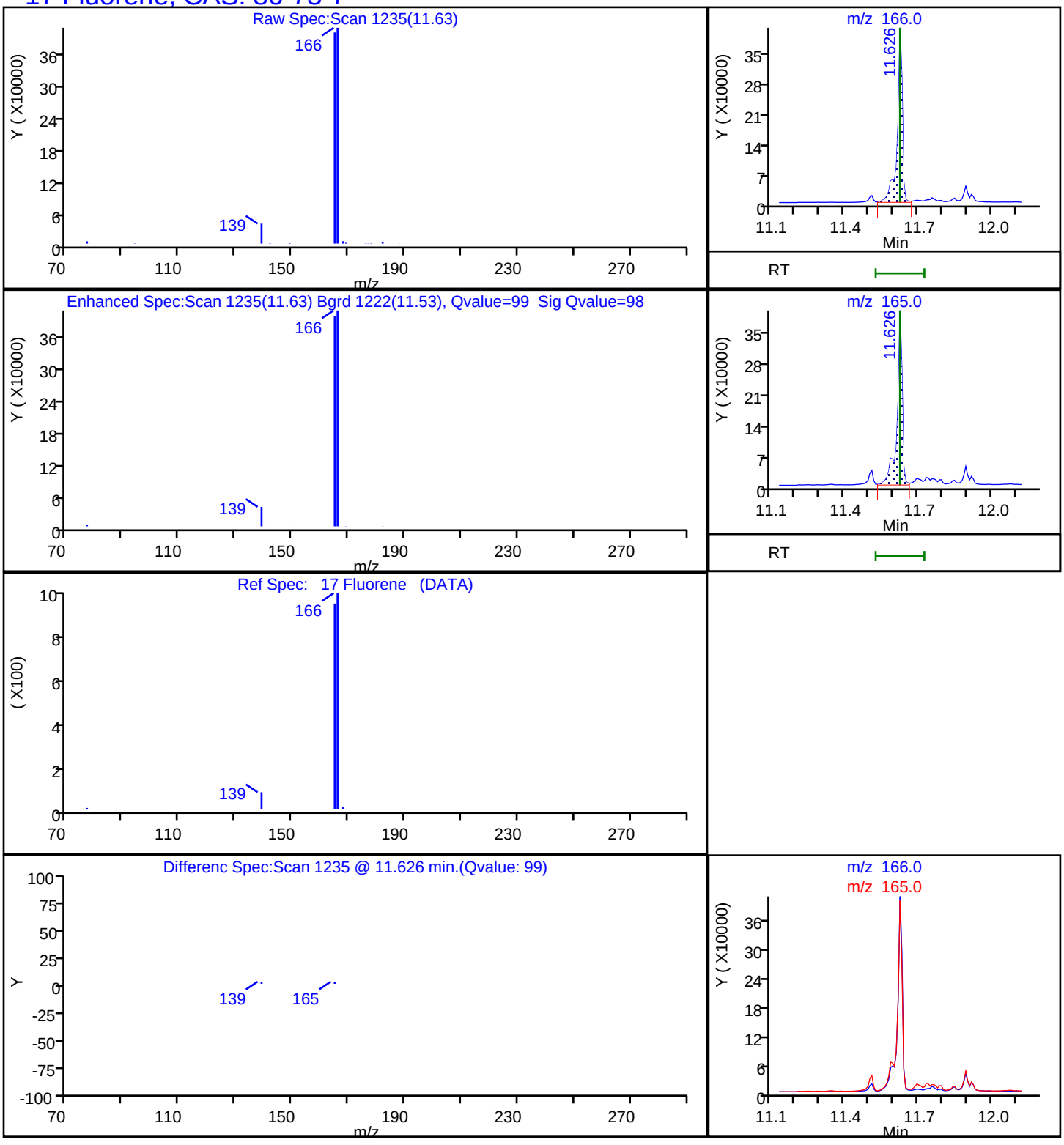
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0381.D

Injection Date:	06-Jul-2021 11:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A DL	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7



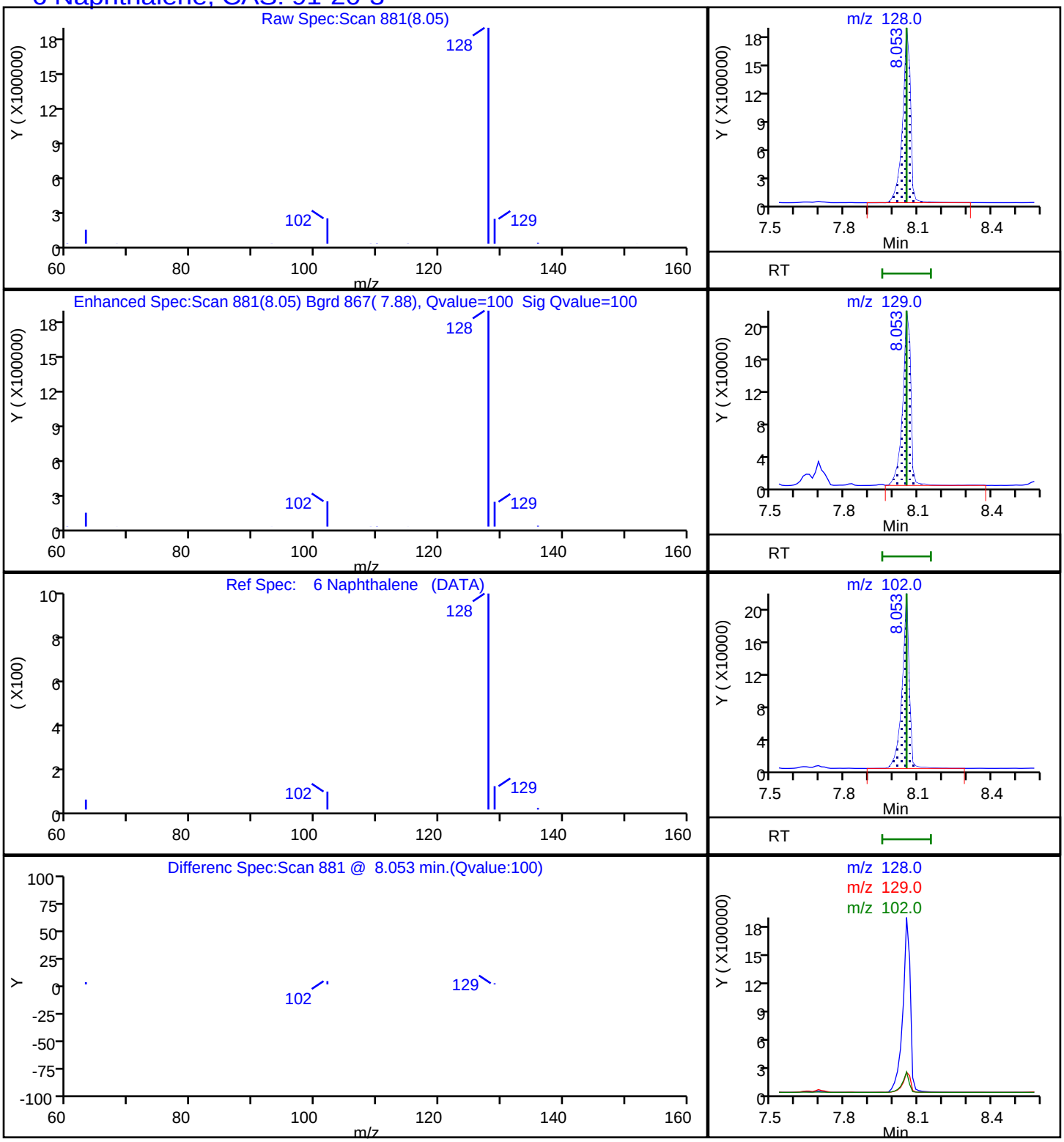
Report Date: 06-Jul-2021 20:01:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0381.D

Injection Date:	06-Jul-2021 11:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A DL	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



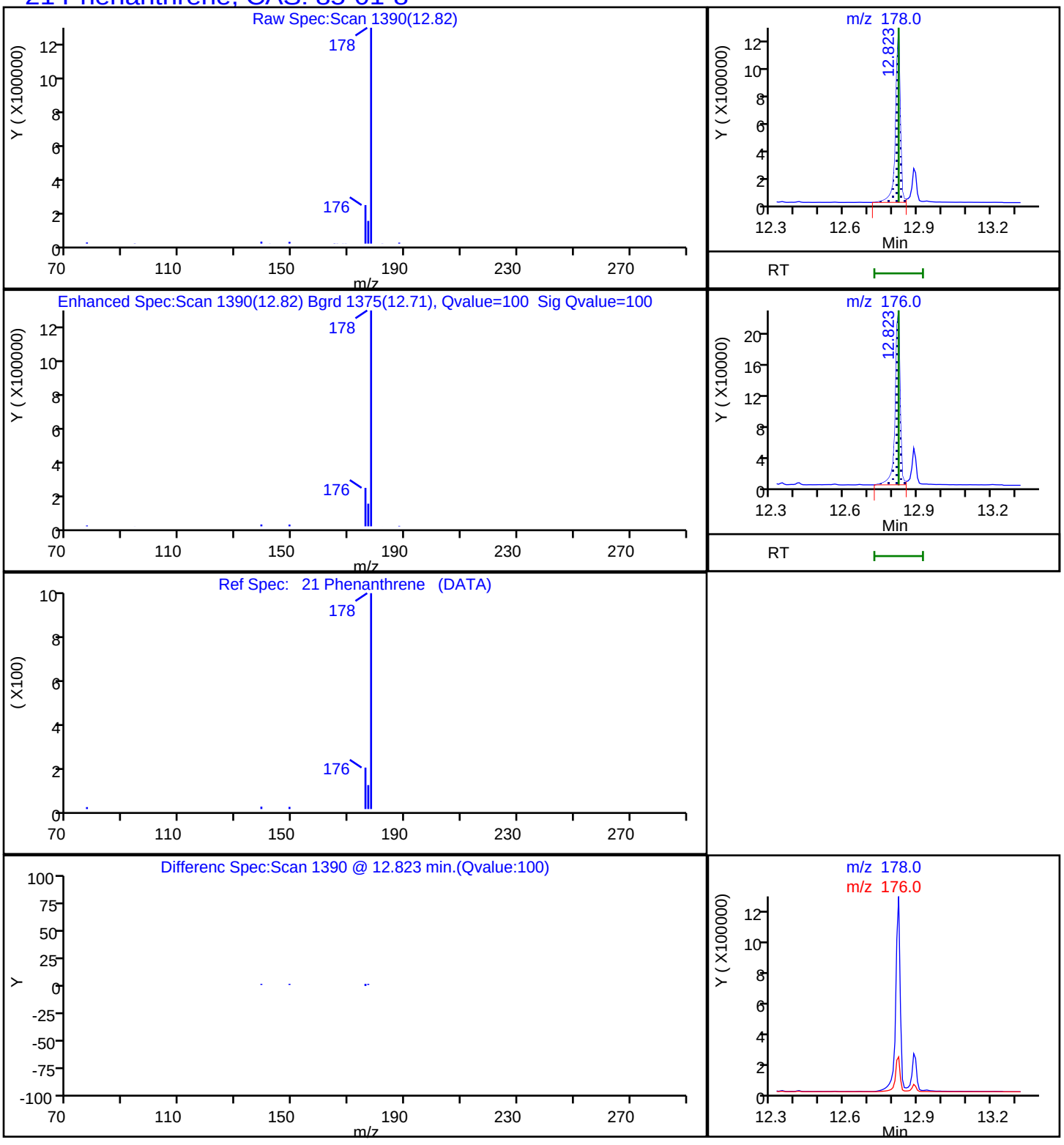
Report Date: 06-Jul-2021 20:01:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0381.D

Injection Date:	06-Jul-2021 11:29:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-17-A DL	Lab Sample ID:	410-45105-17		
Client ID:	MW-13S-20210624				
Operator ID:	jmg00346	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-13D-20210624 Lab Sample ID: 410-45105-18

Matrix: Groundwater Lab File ID: NG0382.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 11:29

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 245.9(mL) Date Analyzed: 07/06/2021 11:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	0.011	J	0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	0.031	J	0.071	0.031
85-01-8	Phenanthrene	ND		0.071	0.031
129-00-0	Pyrene	0.014	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	90		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		36-111
93951-69-0	Fluoranthene-d10 (Surr)	92		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D
Lims ID: 410-45105-A-18-A
Client ID: MW-13D-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 11:59:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-18-A
Misc. Info.: 410-0033556-013
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:48:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.053	0.025	100	185018	0.2500	
* 5 Naphthalene-d8	136	8.015	8.027	-0.012	100	645552	0.2500	
6 Naphthalene	128	8.053	8.052	0.001	99	20455	0.007690	M
$ 9 1-Methylnaphthalene-d10	152	9.276	9.286	-0.010	99	299871	0.2181	
12 Acenaphthylene	152	10.638	10.638	0.000	68	1714	0.000603	7M
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	97	369207	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	63	2996	0.001820	M
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	706507	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	97	666819	0.2294	
25 Fluoranthene	202	14.484	14.484	0.000	94	8759	0.002622	M
26 Pyrene	202	14.828	14.828	0.000	92	12823	0.003362	M
* 29 Chrysene-d12	240	16.871	16.870	0.001	82	756063	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.217	19.225	-0.008	96	662375	0.2249	
* 38 Perylene-d12	264	19.348	19.355	-0.007	96	797893	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

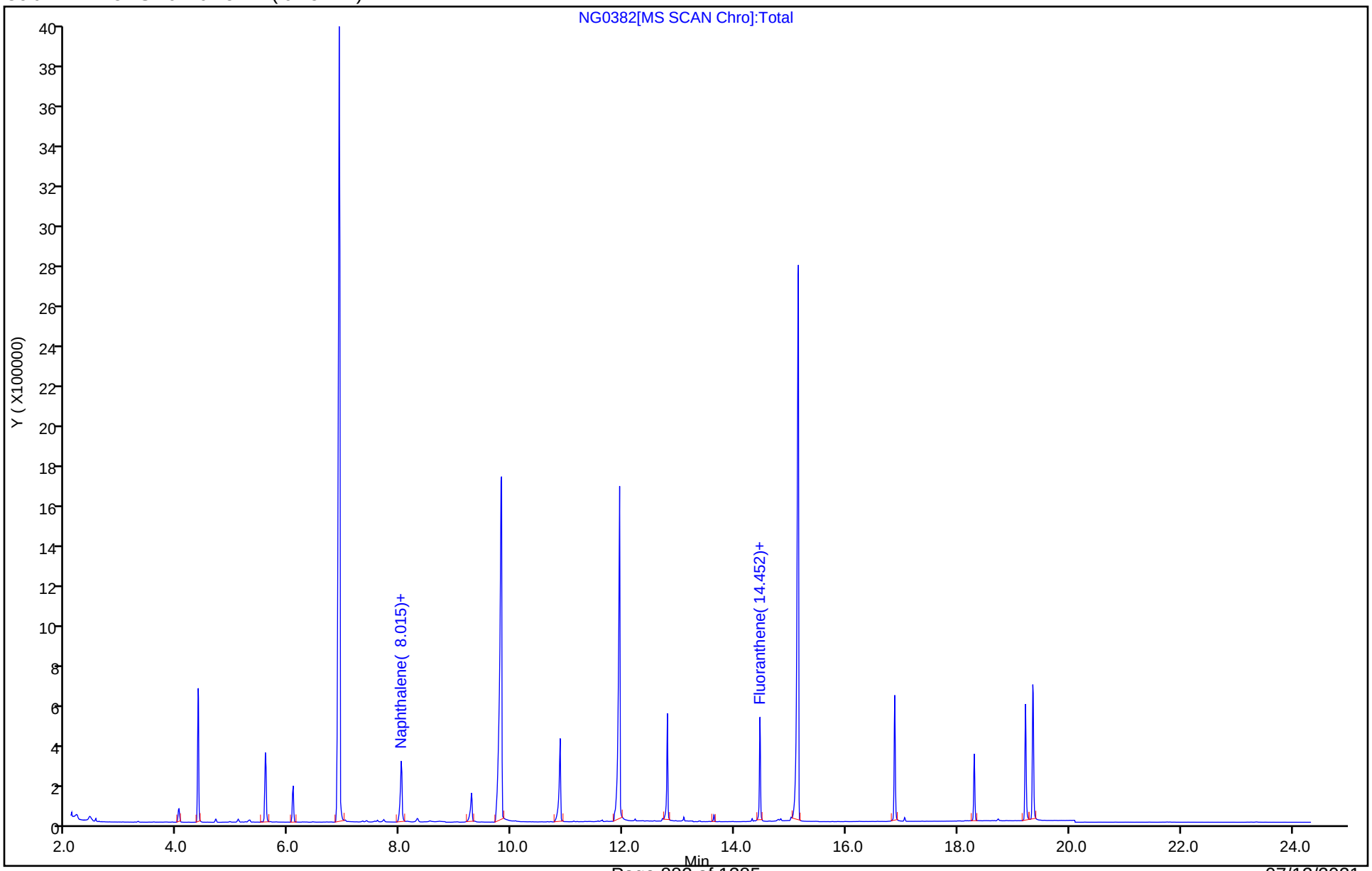
Report Date: 06-Jul-2021 20:01:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D

Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18	Worklist Smp#:	13
Client ID:	MW-13D-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



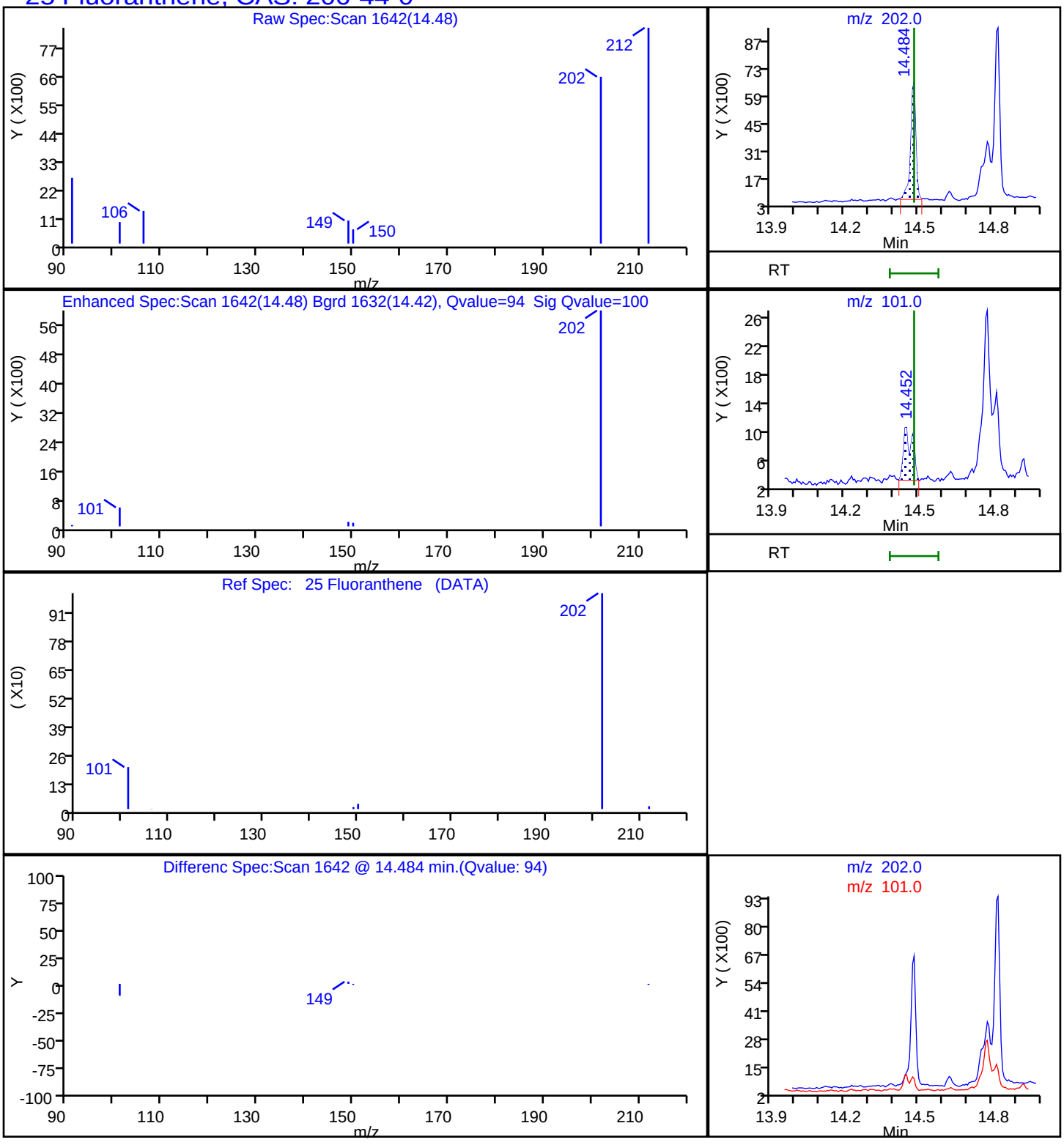
Report Date: 06-Jul-2021 20:01:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D

Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0



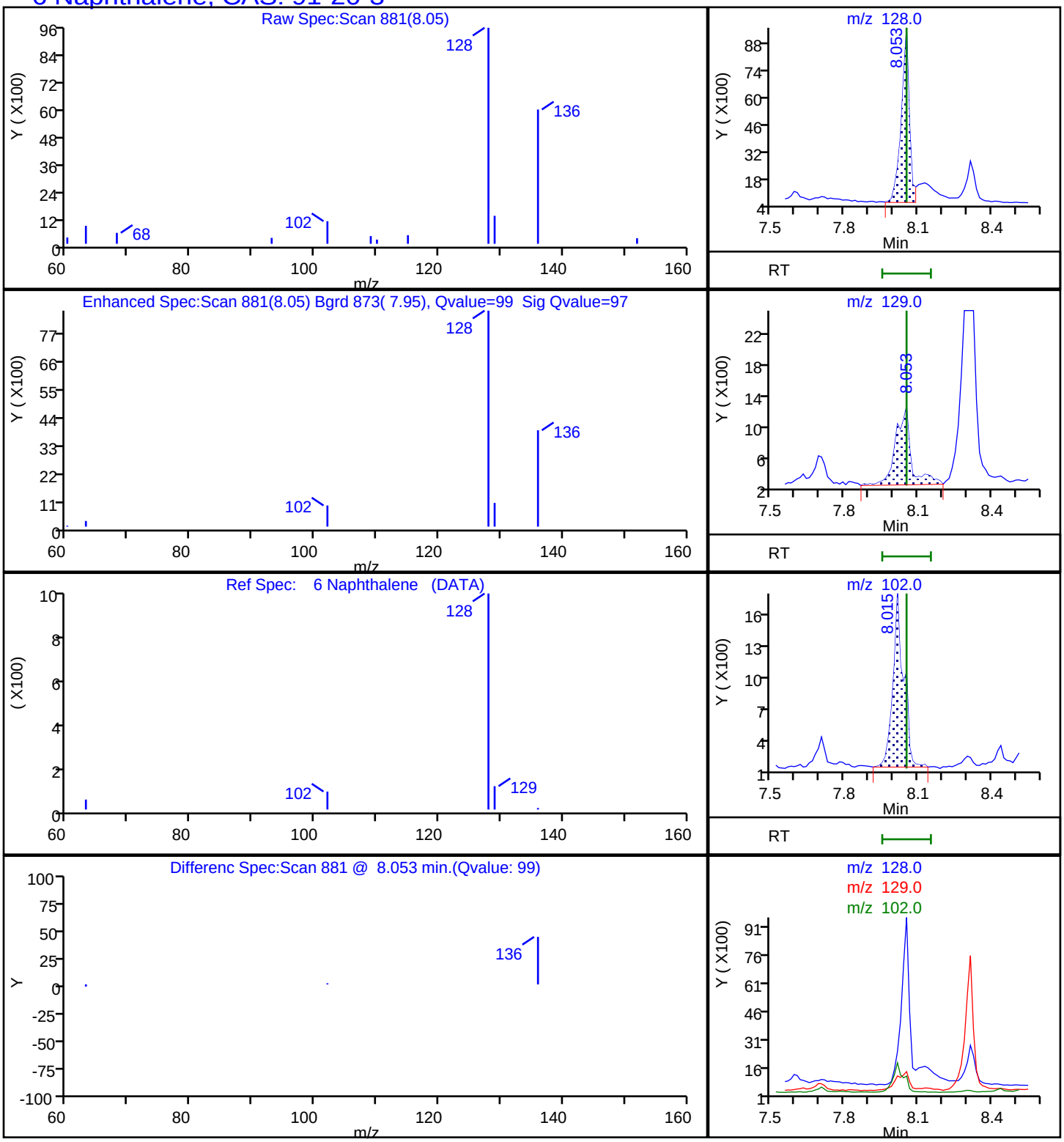
Report Date: 06-Jul-2021 20:01:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D

Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

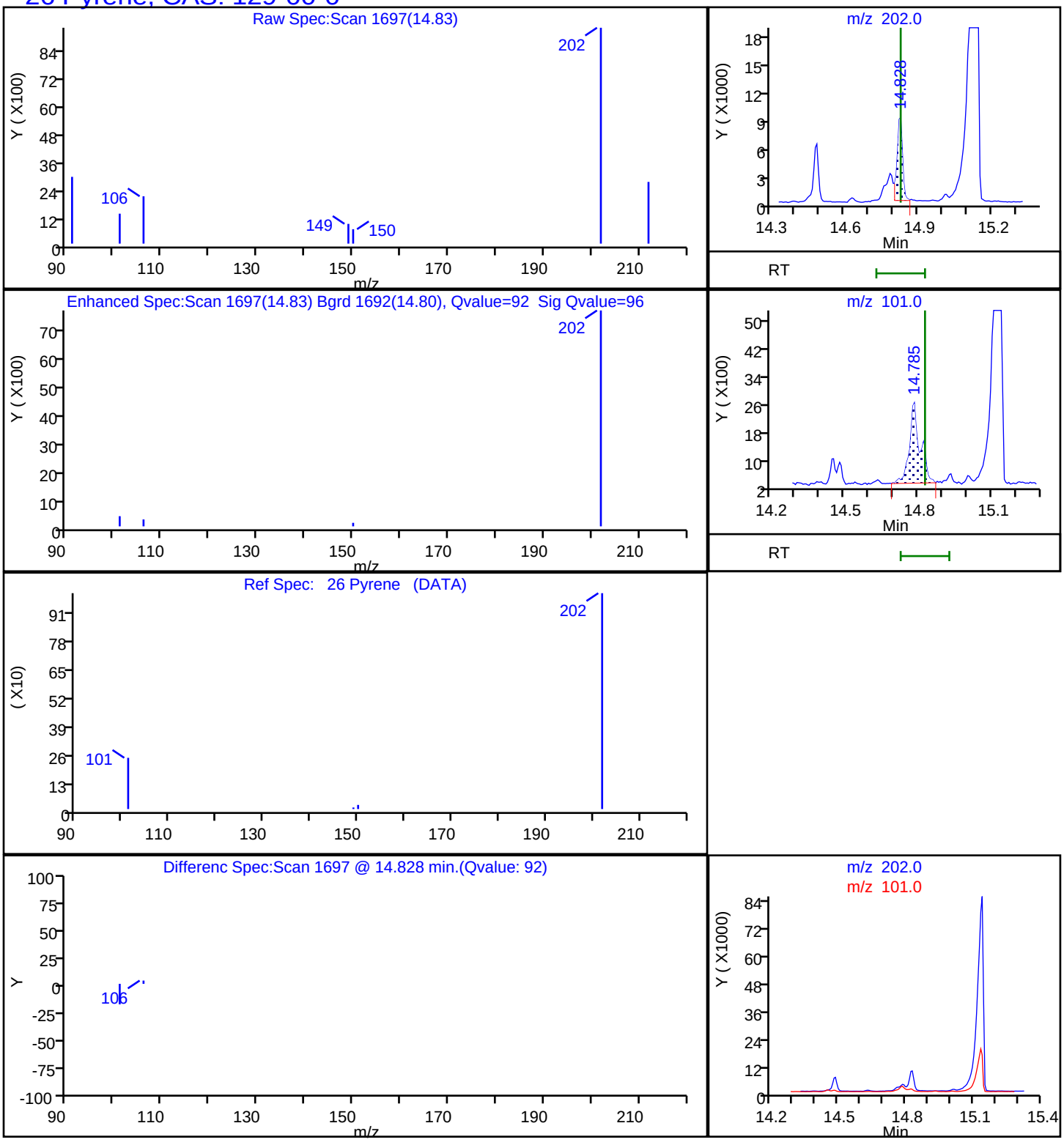
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D				
Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Eurofins Lancaster Laboratories Env, LLC

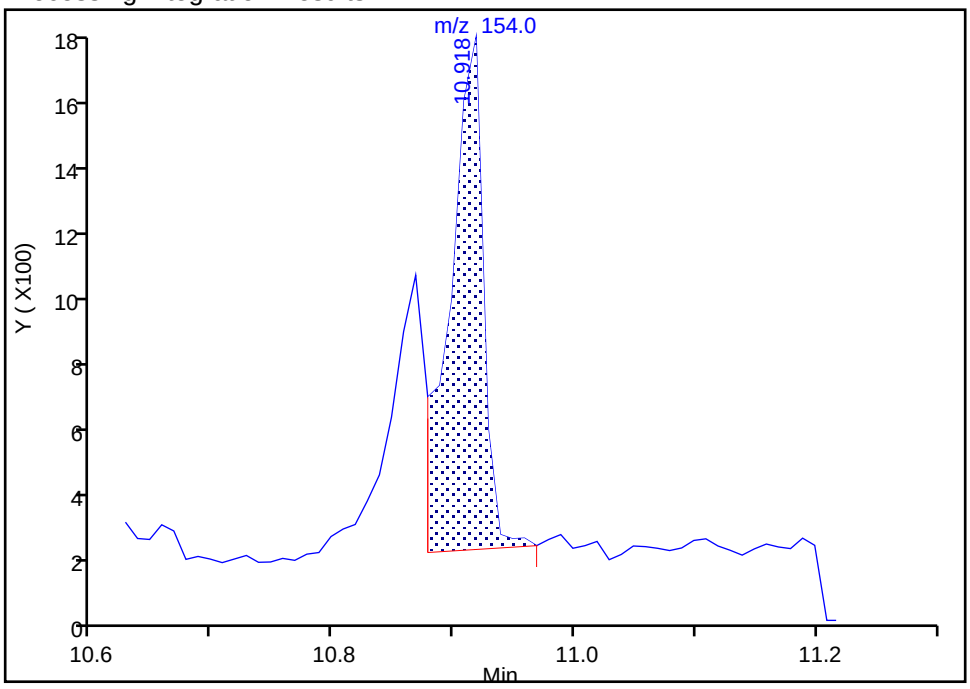
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Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

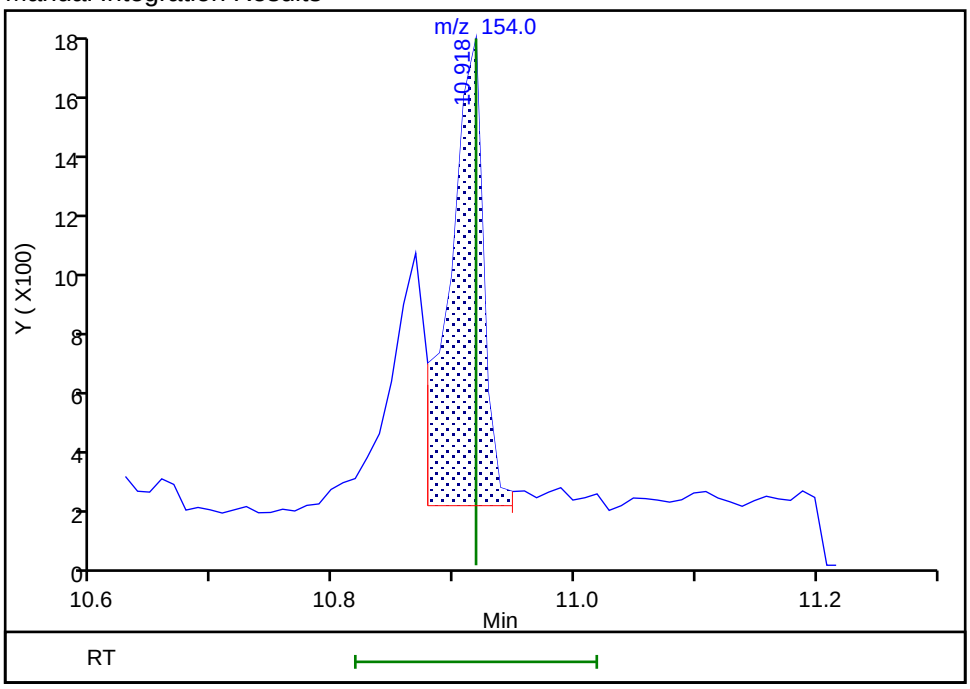
Processing Integration Results

RT: 10.92
Area: 2960
Amount: 0.001798
Amount Units: ug/ml



Manual Integration Results

RT: 10.92
Area: 2996
Amount: 0.001820
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:47:59
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

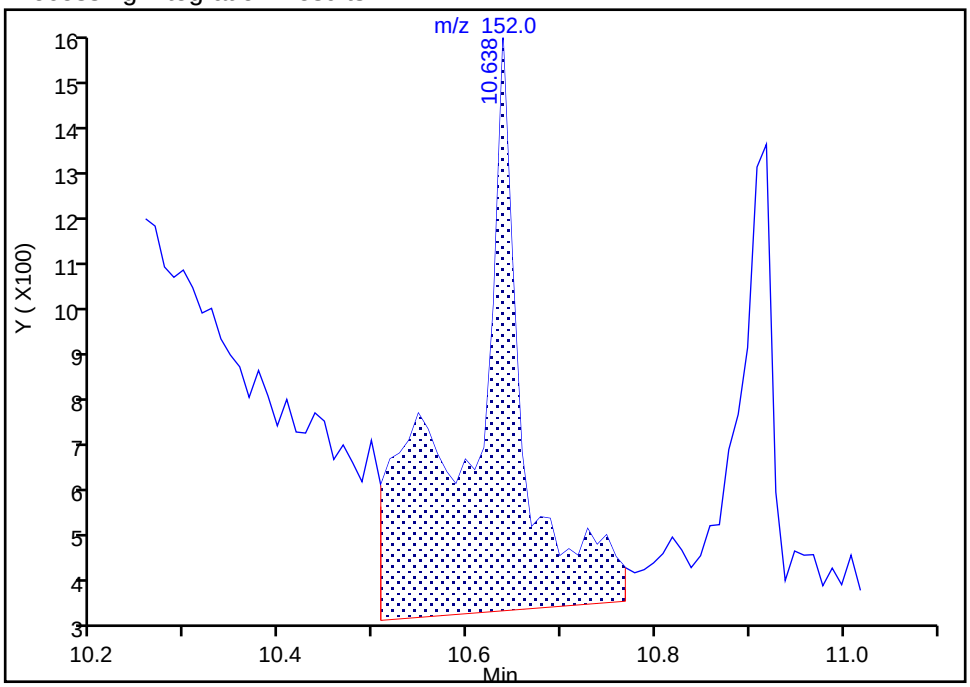
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D		
Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18
Client ID:	MW-13D-20210624		
Operator ID:	jmg00346	ALS Bottle#:	13 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

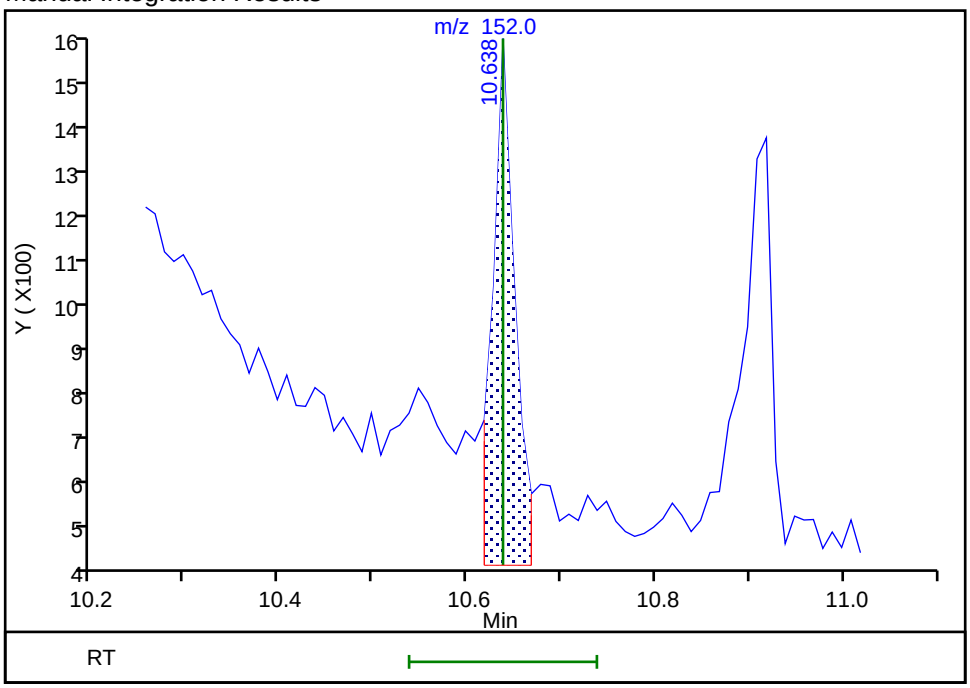
Processing Integration Results

RT: 10.64
Area: 4562
Amount: 0.001606
Amount Units: ug/ml



Manual Integration Results

RT: 10.64
Area: 1714
Amount: 0.000603
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:47:49
Audit Action: Manually Integrated Audit Reason: Baseline

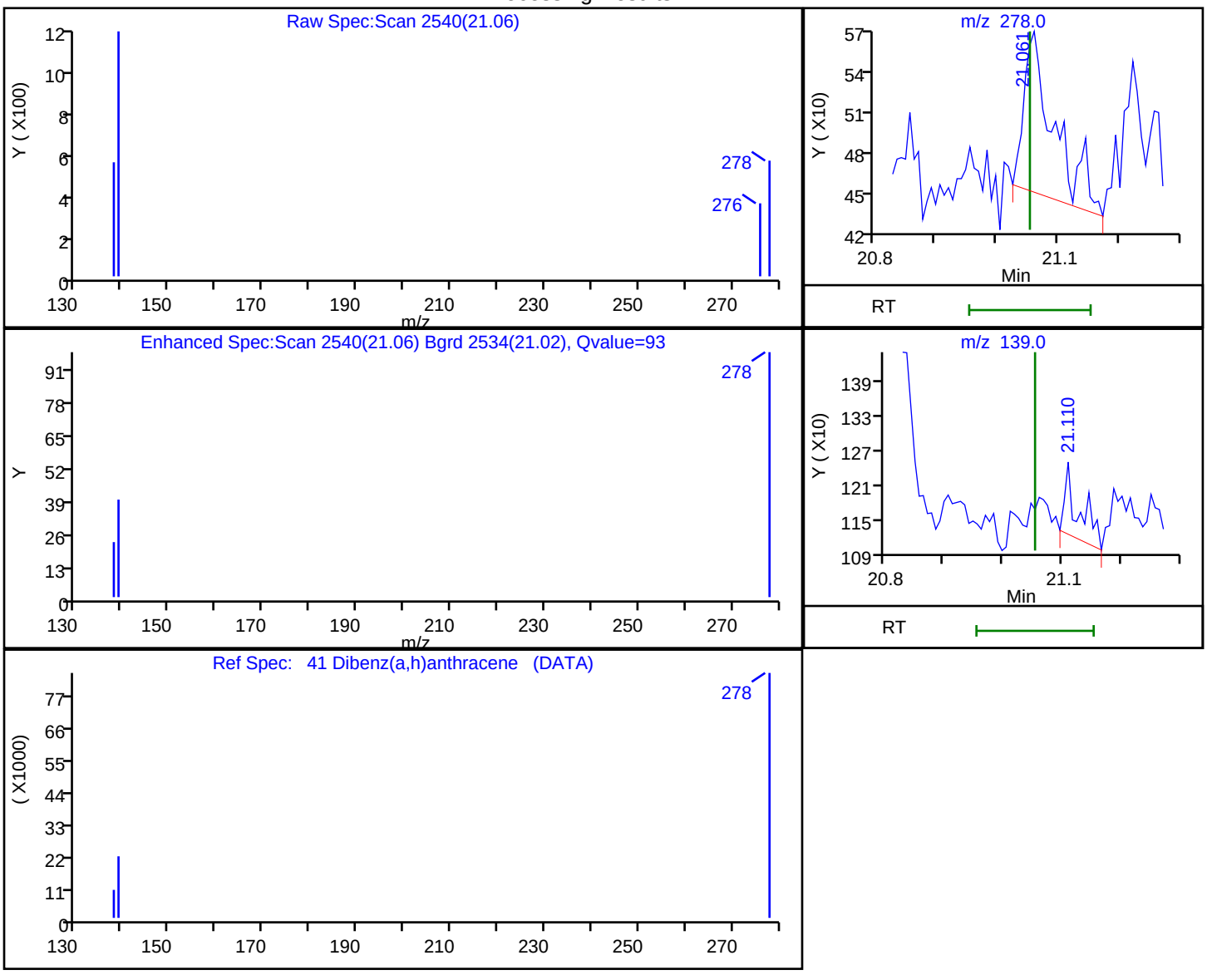
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D				
Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.06	278.00	365	0.006777
21.11	139.00	203	

Reviewer: transuea, 06-Jul-2021 19:48:42

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

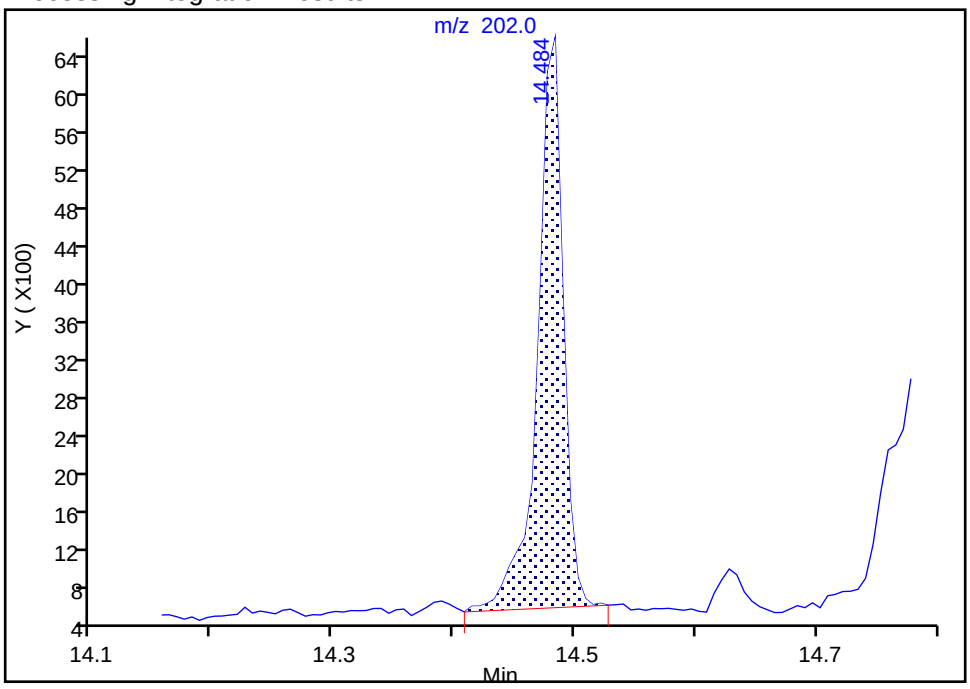
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D				
Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

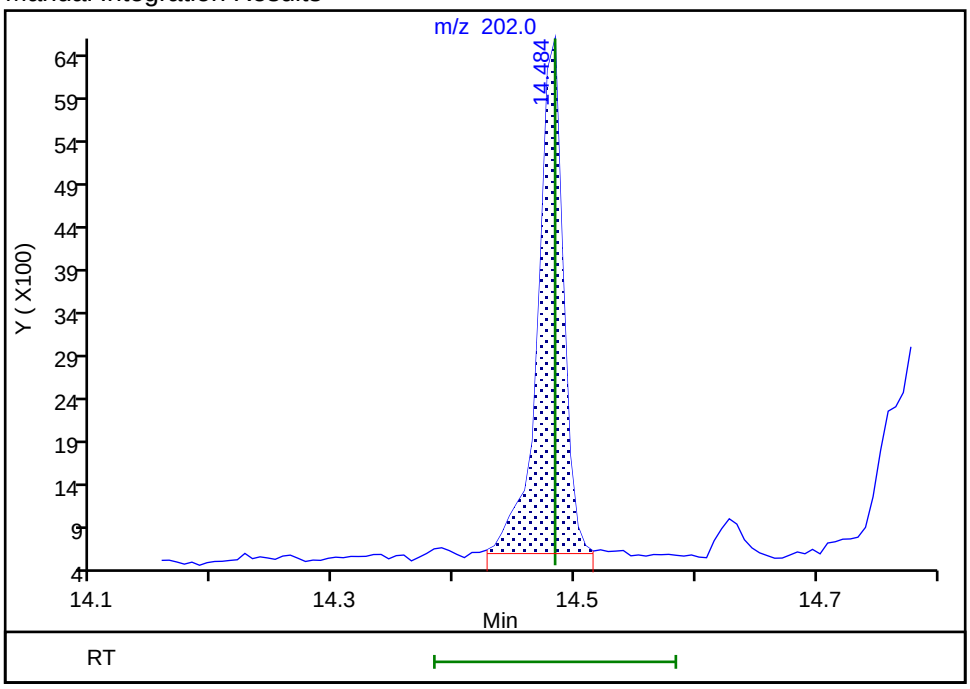
Processing Integration Results

RT: 14.48
Area: 8876
Amount: 0.002657
Amount Units: ug/ml



Manual Integration Results

RT: 14.48
Area: 8759
Amount: 0.002622
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:48:15

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

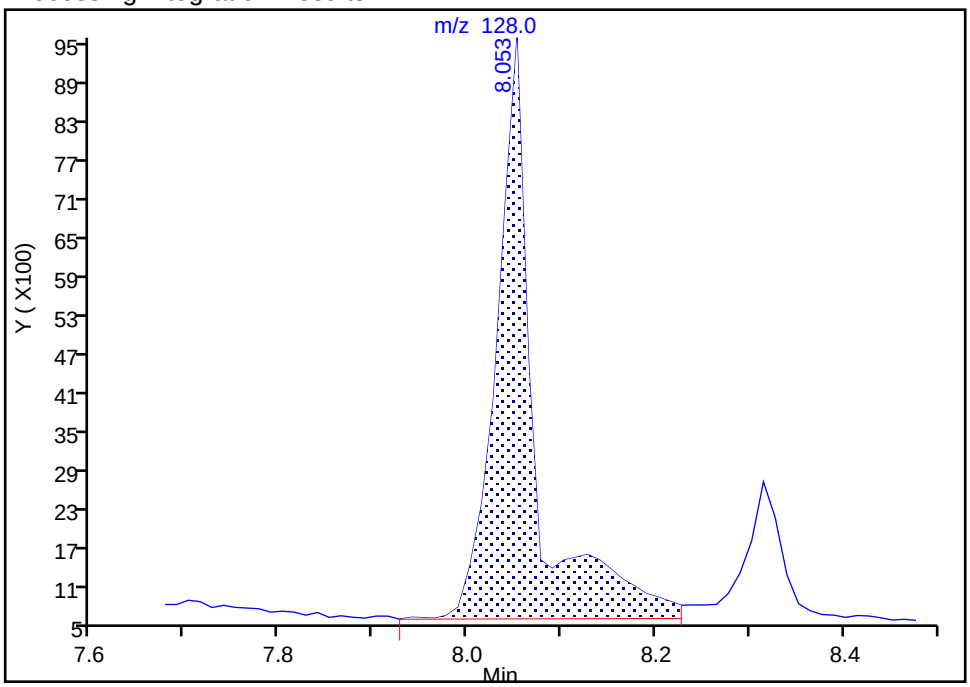
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0382.D				
Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

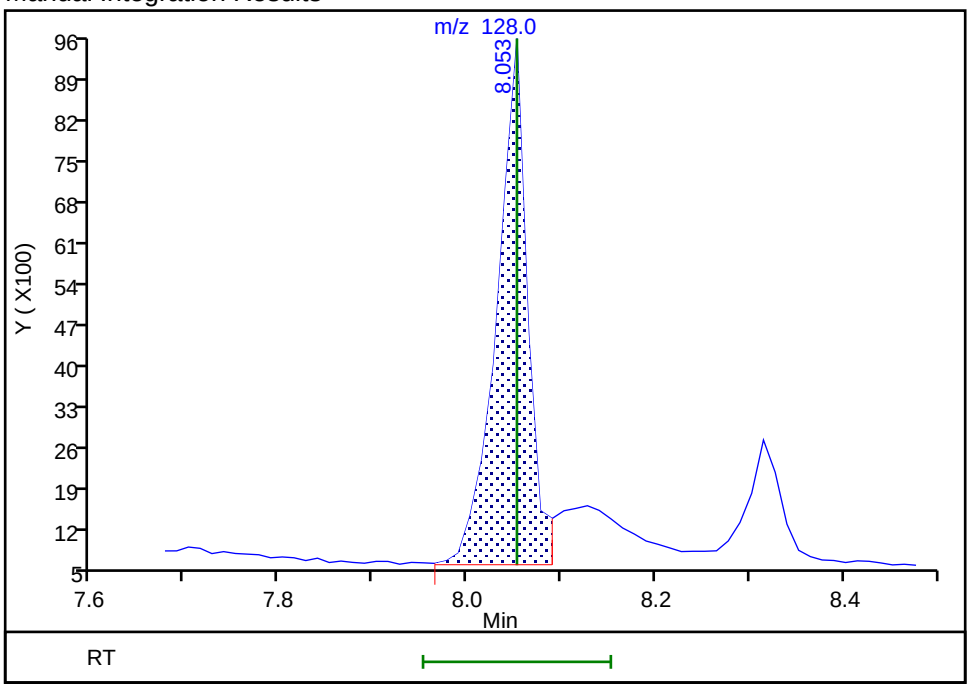
Processing Integration Results

RT: 8.05
Area: 25784
Amount: 0.009693
Amount Units: ug/ml



Manual Integration Results

RT: 8.05
Area: 20455
Amount: 0.007690
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:47:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

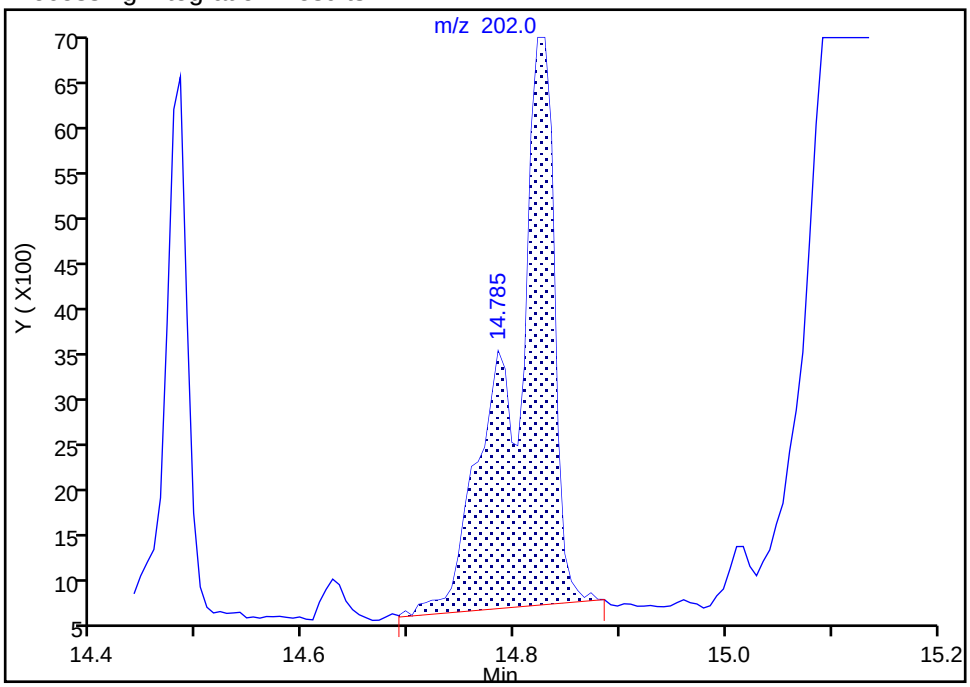
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Injection Date:	06-Jul-2021 11:59:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-18-A	Lab Sample ID:	410-45105-18		
Client ID:	MW-13D-20210624				
Operator ID:	jmg00346	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

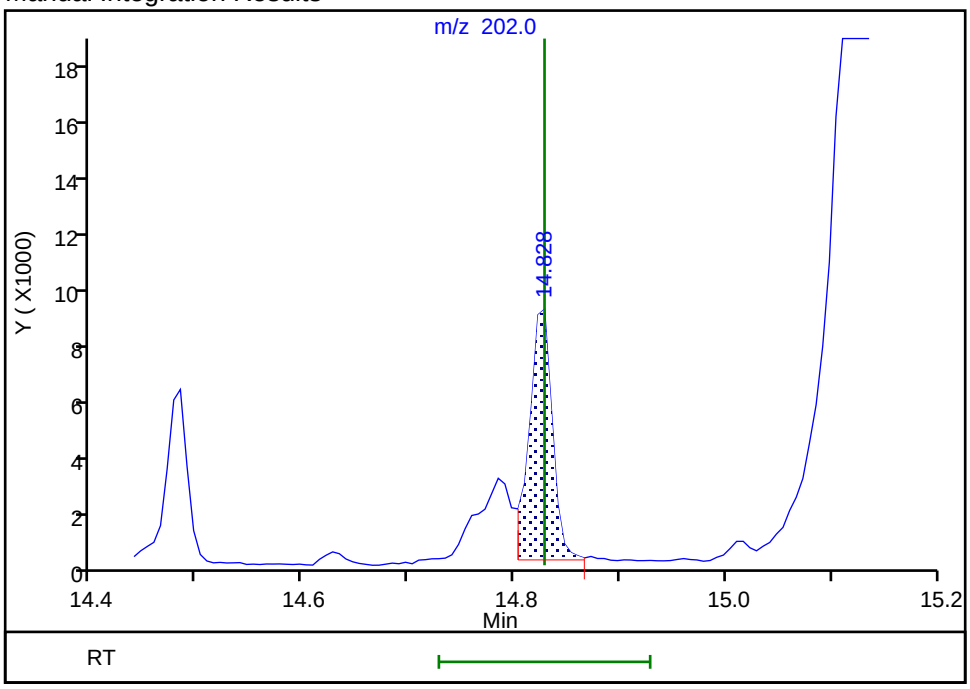
Processing Integration Results

RT: 14.78
Area: 19841
Amount: 0.005201
Amount Units: ug/ml



Manual Integration Results

RT: 14.83
Area: 12823
Amount: 0.003362
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:48:33

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: FB-20210624 Lab Sample ID: 410-45105-19

Matrix: Water Lab File ID: NG0383.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 09:15

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 235.5(mL) Date Analyzed: 07/06/2021 12:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.053	0.011
208-96-8	Acenaphthylene	ND		0.053	0.011
120-12-7	Anthracene	ND		0.053	0.011
56-55-3	Benzo[a]anthracene	ND		0.053	0.011
50-32-8	Benzo[a]pyrene	ND		0.053	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.053	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.053	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.053	0.011
218-01-9	Chrysene	ND		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.053	0.021
206-44-0	Fluoranthene	ND		0.053	0.011
86-73-7	Fluorene	ND		0.053	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021
91-20-3	Naphthalene	ND		0.074	0.032
85-01-8	Phenanthrene	ND		0.074	0.032
129-00-0	Pyrene	0.016	J	0.053	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		36-111
93951-69-0	Fluoranthene-d10 (Surr)	87		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0383.D
Lims ID: 410-45105-A-19-A
Client ID: FB-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 12:28:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-19-A
Misc. Info.: 410-0033556-014
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:49:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.053	0.025	99	207815	0.2500	
* 5 Naphthalene-d8	136	8.015	8.027	-0.012	100	735662	0.2500	
6 Naphthalene	128	8.052	8.052	0.000	98	18717	0.006175	M
$ 9 1-Methylnaphthalene-d10	152	9.275	9.286	-0.011	100	298342	0.1904	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	97	403763	0.2500	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	806197	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	97	718736	0.2166	
26 Pyrene	202	14.822	14.828	-0.006	93	16584	0.003847	
* 29 Chrysene-d12	240	16.870	16.870	0.000	82	854437	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.217	19.225	-0.008	96	658053	0.2050	
* 38 Perylene-d12	264	19.348	19.355	-0.007	95	869944	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

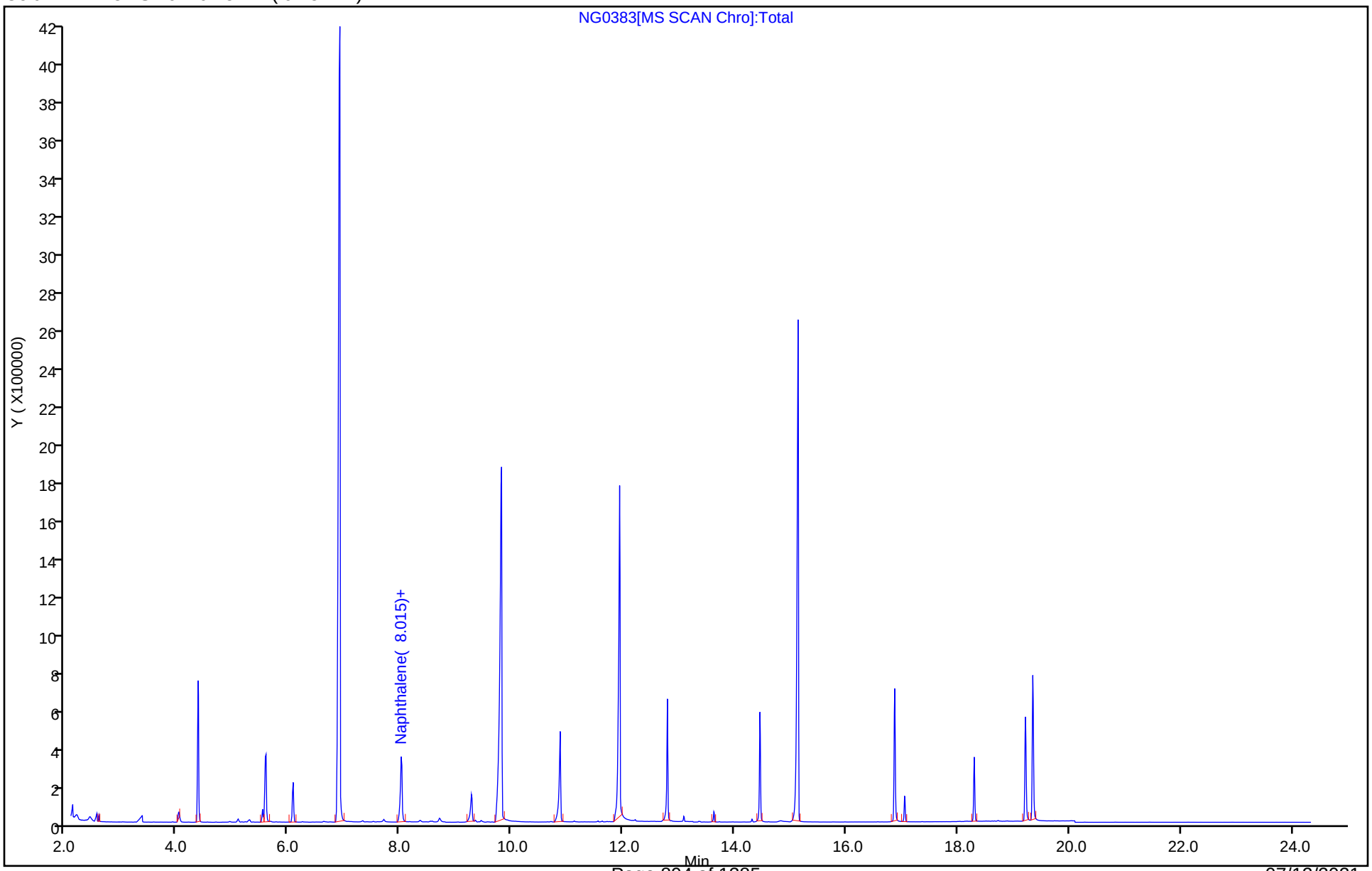
Report Date: 06-Jul-2021 20:01:18 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0383.D

Injection Date:	06-Jul-2021 12:28:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-19-A	Lab Sample ID:	410-45105-19	Worklist Smp#:	14
Client ID:	FB-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



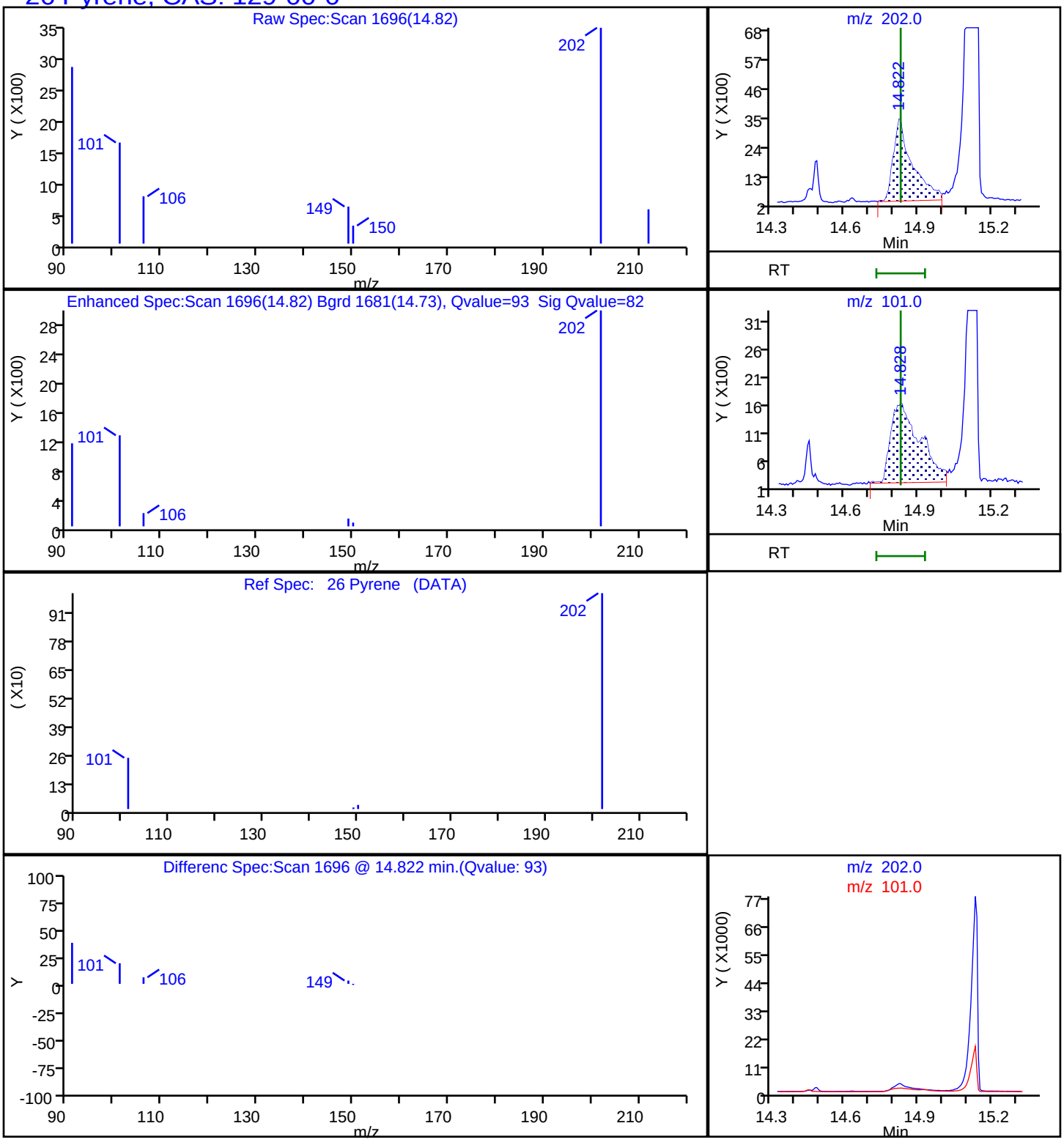
Report Date: 06-Jul-2021 20:01:18 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0383.D

Injection Date:	06-Jul-2021 12:28:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-19-A	Lab Sample ID:	410-45105-19
Client ID:	FB-20210624		
Operator ID:	jmg00346	ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



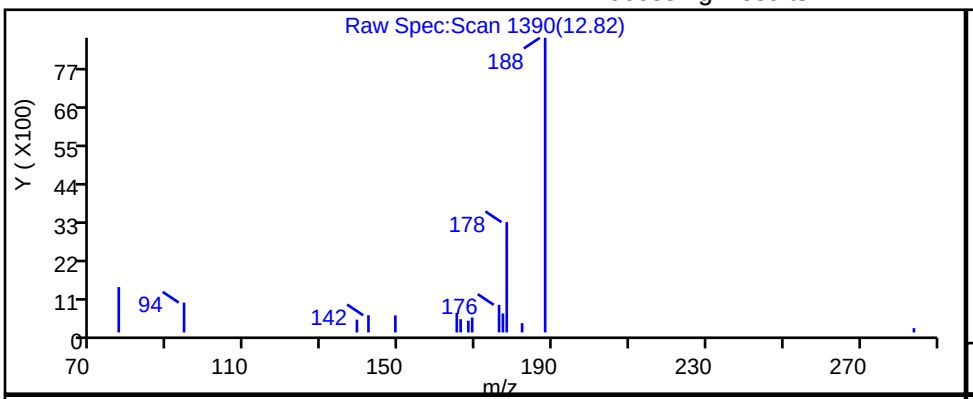
User Disabled Compound Report

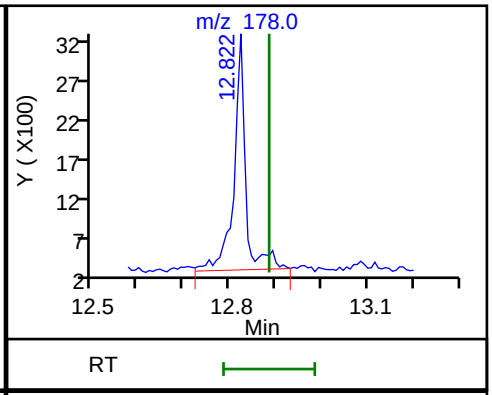
Eurofins Lancaster Laboratories Env, LLC

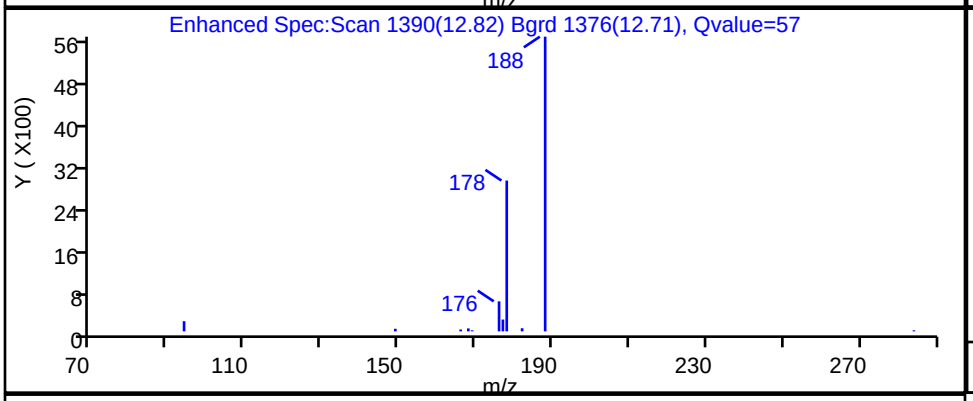
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0383.D				
Injection Date:	06-Jul-2021 12:28:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-19-A	Lab Sample ID:	410-45105-19		
Client ID:	FB-20210624				
Operator ID:	jmg00346	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

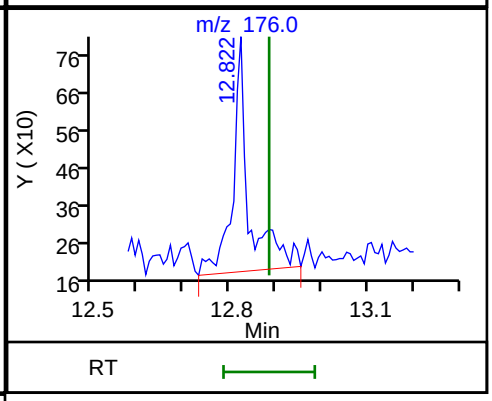
22 Anthracene, CAS: 120-12-7

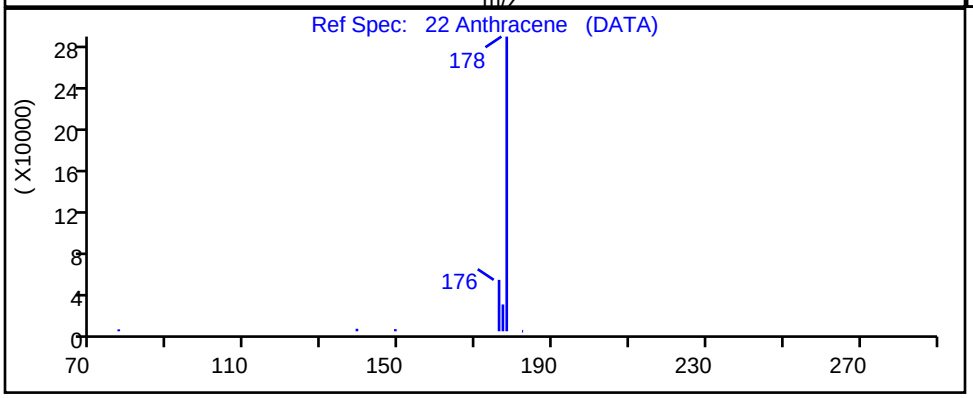
Processing Results











RT	Mass	Response	Amount
12.82	178.00	5120	0.001595
12.82	176.00	1522	

Reviewer: transuea, 06-Jul-2021 19:49:14

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

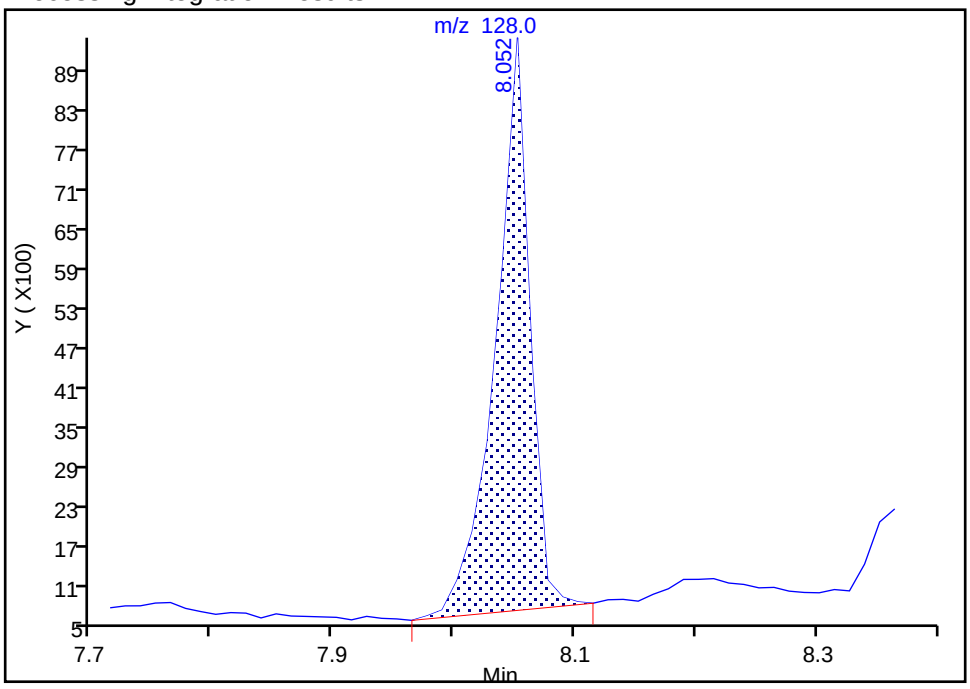
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0383.D		
Injection Date:	06-Jul-2021 12:28:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-19-A	Lab Sample ID:	410-45105-19
Client ID:	FB-20210624		
Operator ID:	jmg00346	ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

6 Naphthalene, CAS: 91-20-3

Signal: 1

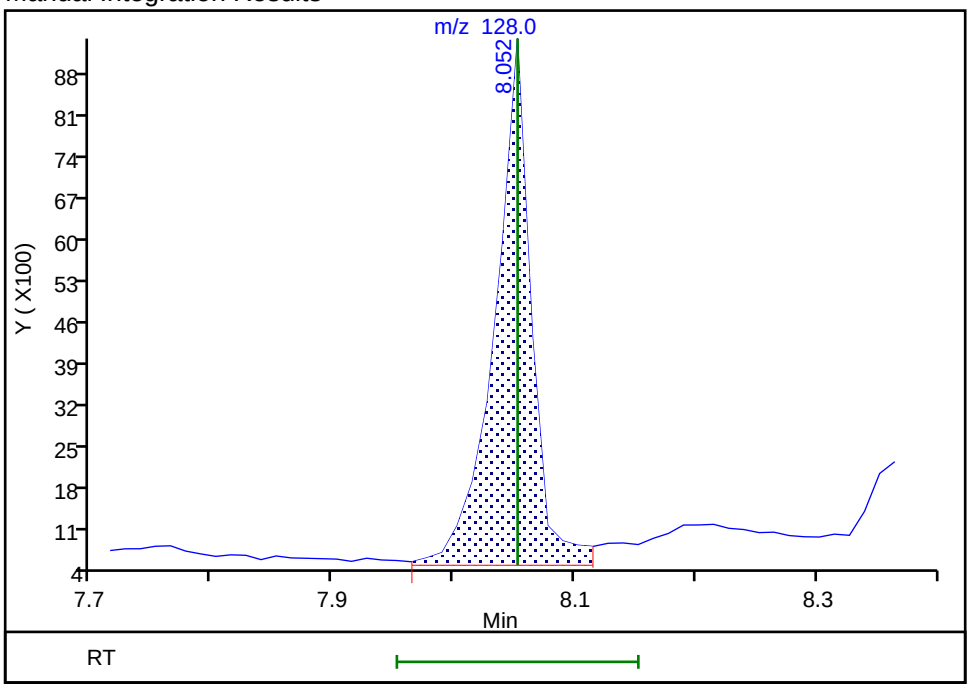
Processing Integration Results

RT: 8.05
Area: 17026
Amount: 0.005617
Amount Units: ug/ml



Manual Integration Results

RT: 8.05
Area: 18717
Amount: 0.006175
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:49:08

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: DUP-20210624 Lab Sample ID: 410-45105-20

Matrix: Groundwater Lab File ID: NG0384.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 00:00

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 243.9(mL) Date Analyzed: 07/06/2021 12:58

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	4.3		0.051	0.010
120-12-7	Anthracene	1.2		0.051	0.010
56-55-3	Benzo[a]anthracene	1.2		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.019	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	0.71		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.021
86-73-7	Fluorene	6.6		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
85-01-8	Phenanthrene	6.0		0.072	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		36-111
93951-69-0	Fluoranthene-d10 (Surr)	117		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D
Lims ID: 410-45105-A-20-A
Client ID: DUP-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 12:58:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-20-A
Misc. Info.: 410-0033556-015
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:51:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.065	6.053	0.012	100	180628	0.2500	
* 5 Naphthalene-d8	136	8.027	8.027	0.000	88	603257	0.2500	
6 Naphthalene	128	8.077	8.052	0.025	95	32299991	13.0	Ee
$ 9 1-Methylnaphthalene-d10	152	9.285	9.286	-0.001	97	259459	0.2019	
12 Acenaphthylene	152	10.638	10.638	0.000	98	2359815	1.06	M
* 13 Acenaphthene-d10	164	10.878	10.868	0.010	95	289845	0.2500	M
14 Acenaphthene	154	10.928	10.918	0.010	91	9916061	7.67	EM
17 Fluorene	166	11.633	11.625	0.007	98	2660512	1.60	M
* 20 Phenanthrene-d10	188	12.791	12.792	-0.001	100	501529	0.2500	
21 Phenanthrene	178	12.822	12.822	0.000	100	3330000	1.47	
22 Anthracene	178	12.892	12.884	0.008	98	590490	0.2957	
$ 24 Fluoranthene-d10 (Surr)	212	14.458	14.458	0.006	95	601837	0.2916	
25 Fluoranthene	202	14.490	14.484	0.006	94	7647569	3.23	E
26 Pyrene	202	14.834	14.828	0.006	96	10308659	2.86	E
28 Benzo[a]anthracene	228	16.863	16.855	0.008	99	1040772	0.2958	
* 29 Chrysene-d12	240	16.878	16.870	0.008	89	714439	0.2500	
30 Chrysene	228	16.924	16.917	0.008	100	573904	0.1731	
33 Benzo[b]fluoranthene	252	18.734	18.734	0.007	99	19075	0.004540	M
34 Benzo[k]fluoranthene	252	18.780	18.773	0.007	99	6721	0.001619	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.225	19.225	0.000	96	665496	0.2041	
* 38 Perylene-d12	264	19.355	19.355	0.000	95	883378	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.004	21.004	0.000	94	5451	0.001845	M
42 Benzo[g,h,i]perylene	276	21.435	21.435	0.000	90	4644	0.001289	M

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
e - Potential Peak Saturated

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

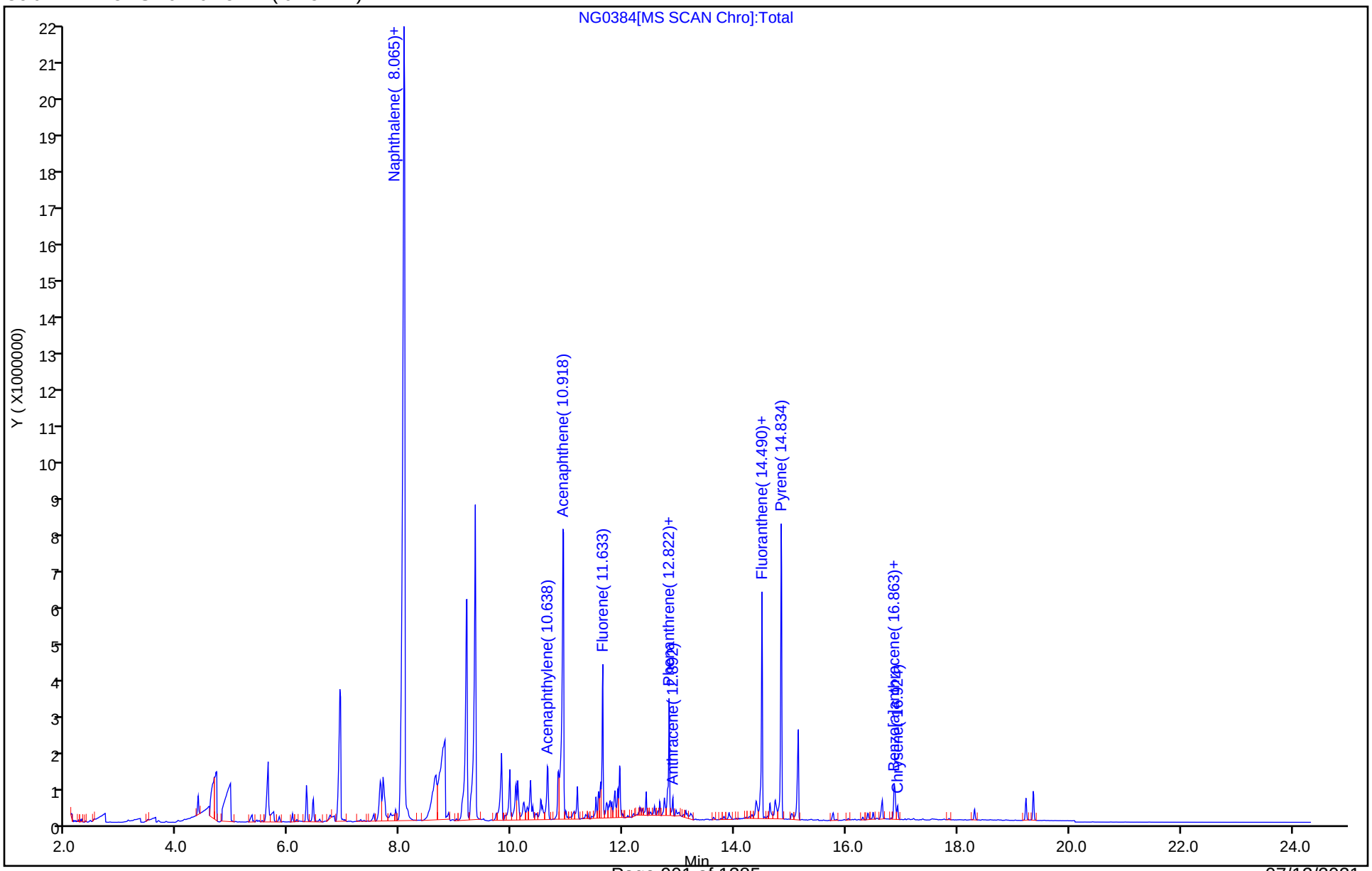
Report Date: 06-Jul-2021 20:01:19 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D

Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20	Worklist Smp#:	15
Client ID:	DUP-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



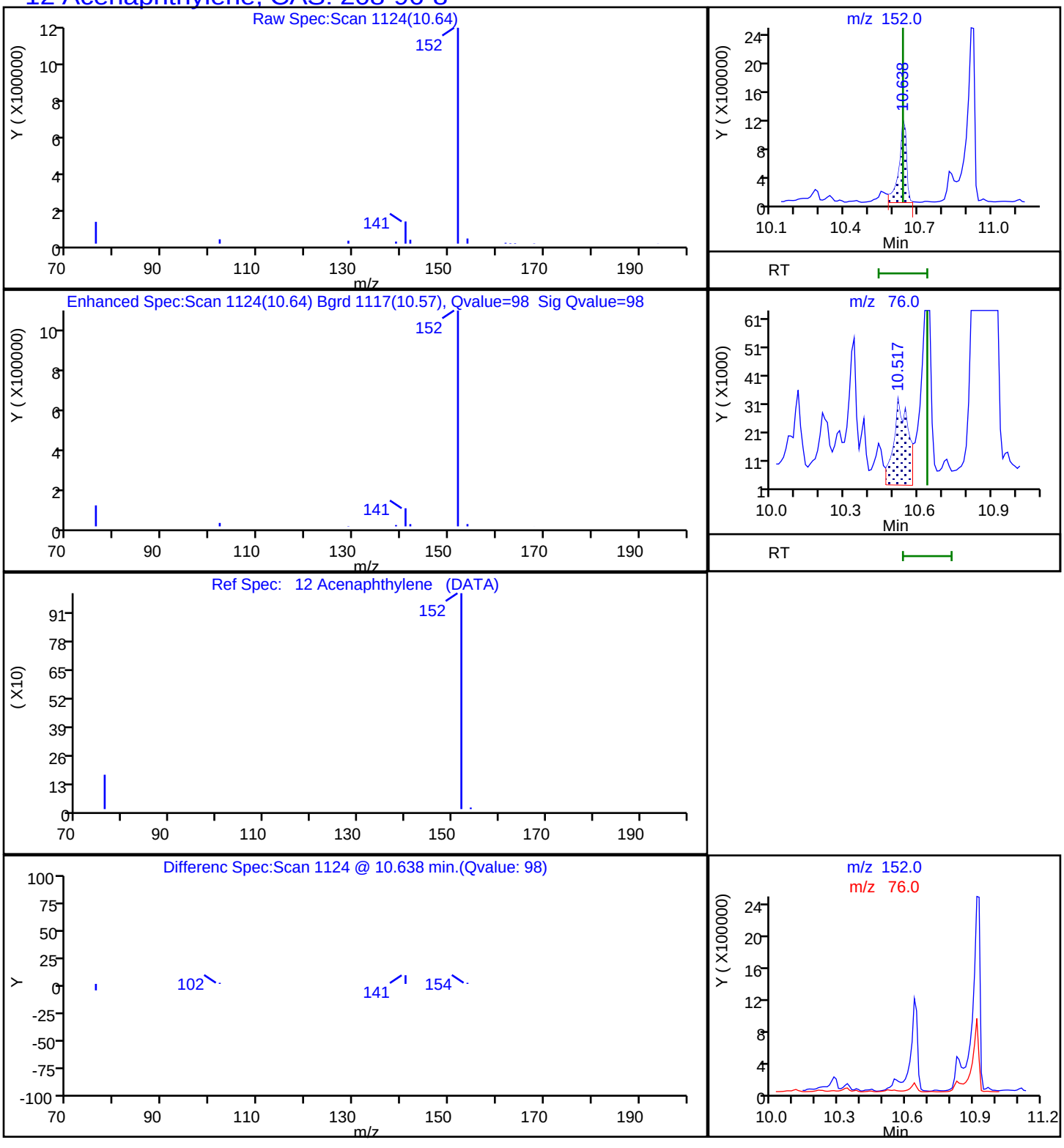
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D

Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

12 Acenaphthylene, CAS: 208-96-8



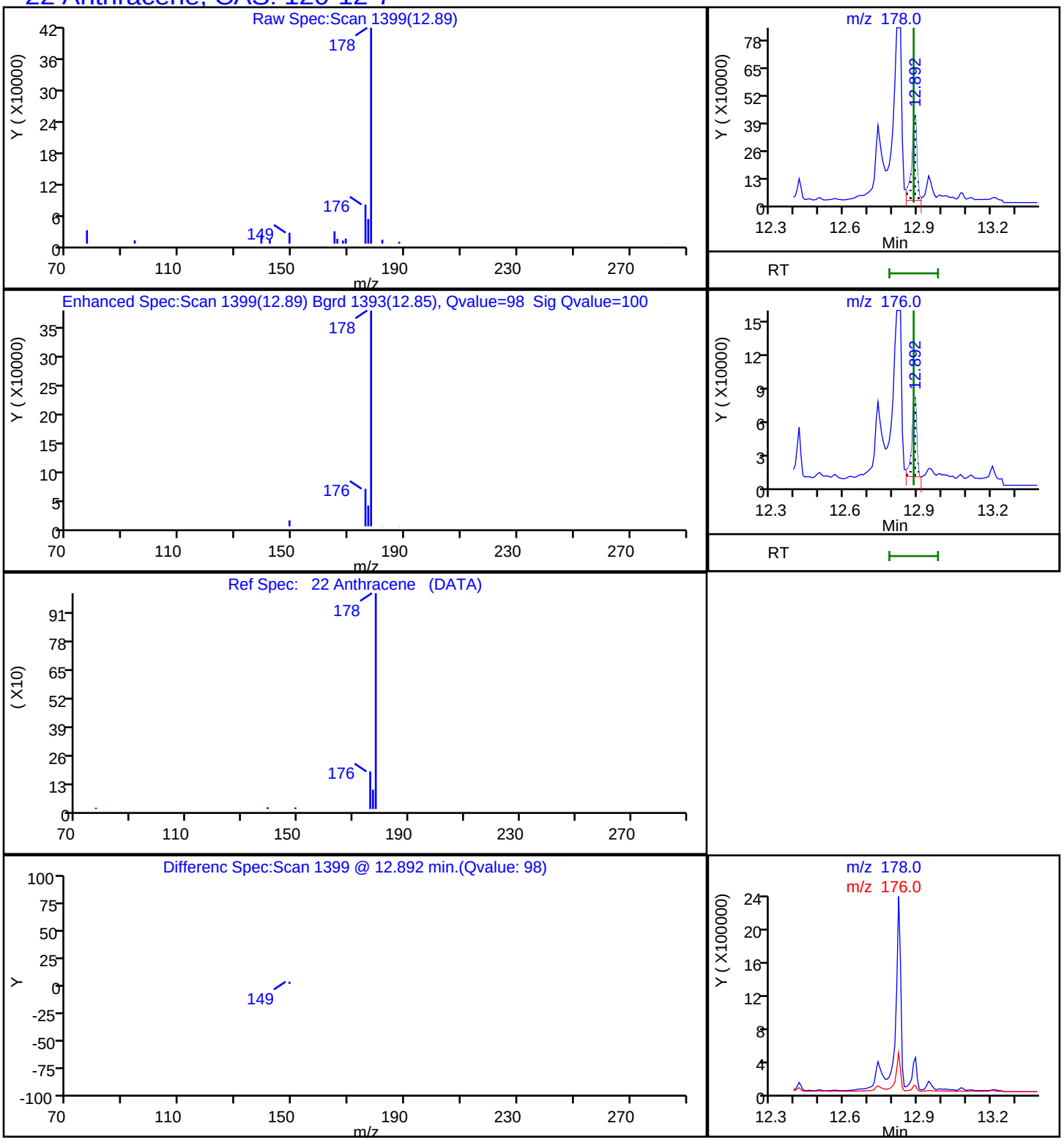
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D

Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

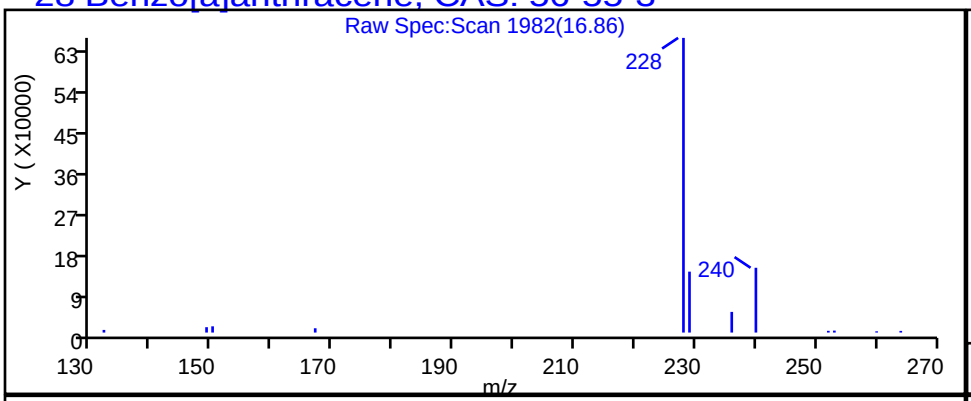
22 Anthracene, CAS: 120-12-7

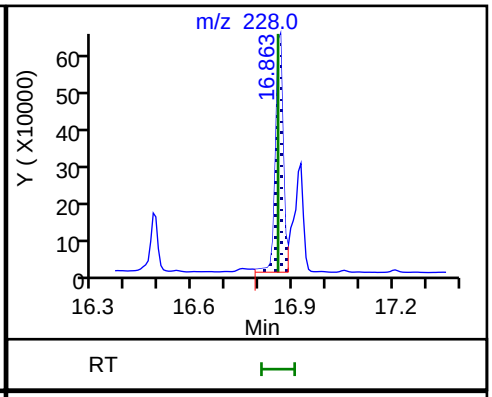


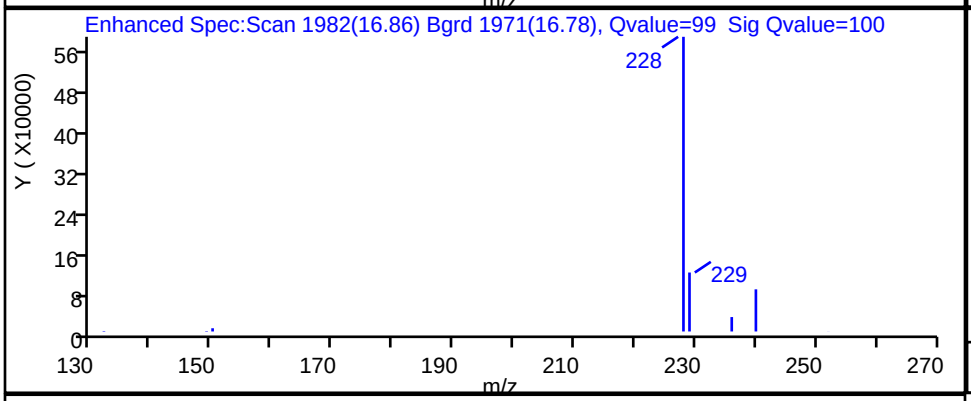
Eurofins Lancaster Laboratories Env, LLC

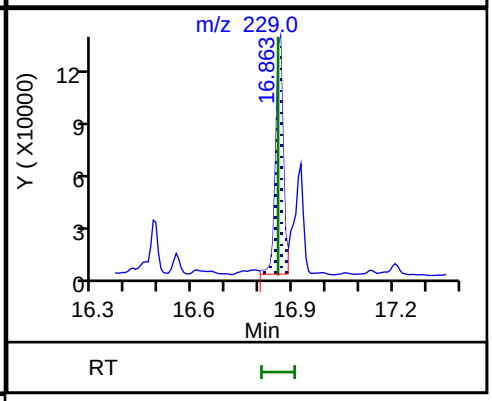
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Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

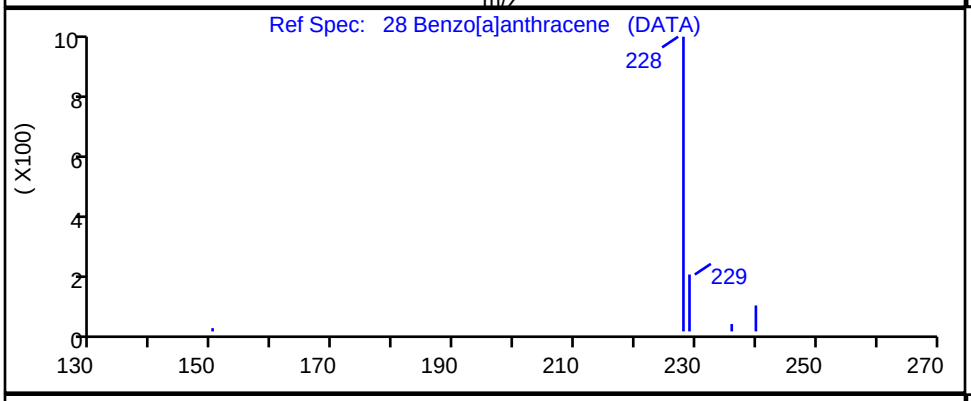
28 Benzo[a]anthracene, CAS: 56-55-3

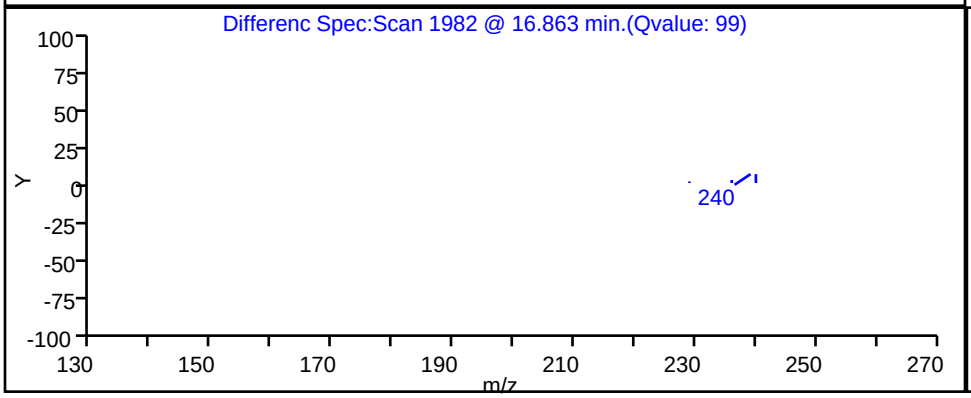


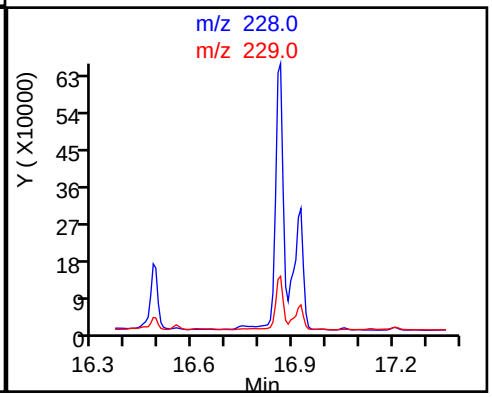








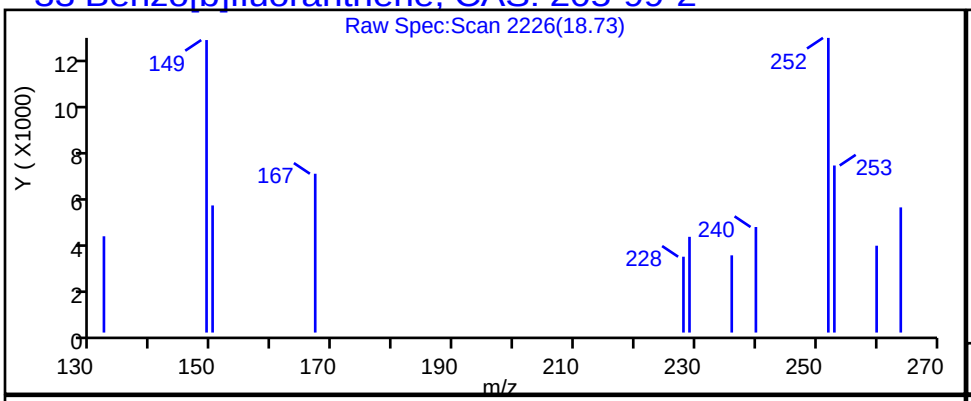


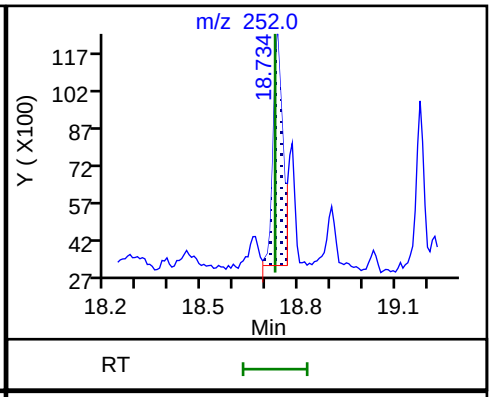


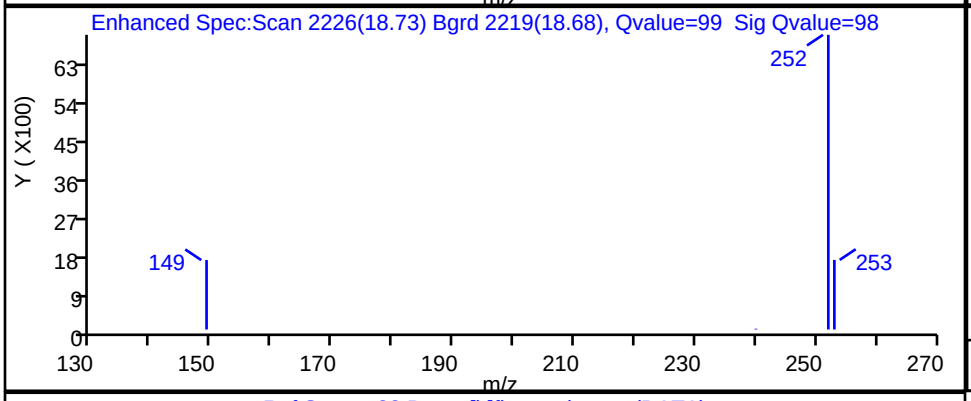
Eurofins Lancaster Laboratories Env, LLC

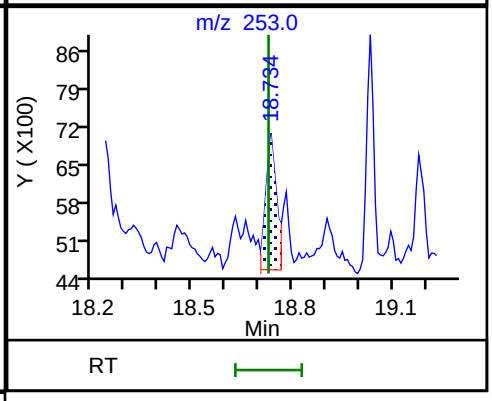
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Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

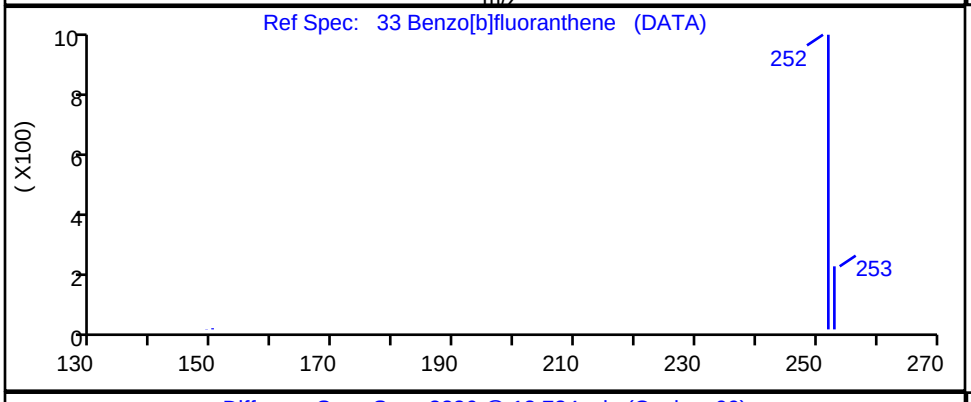
33 Benzo[b]fluoranthene, CAS: 205-99-2

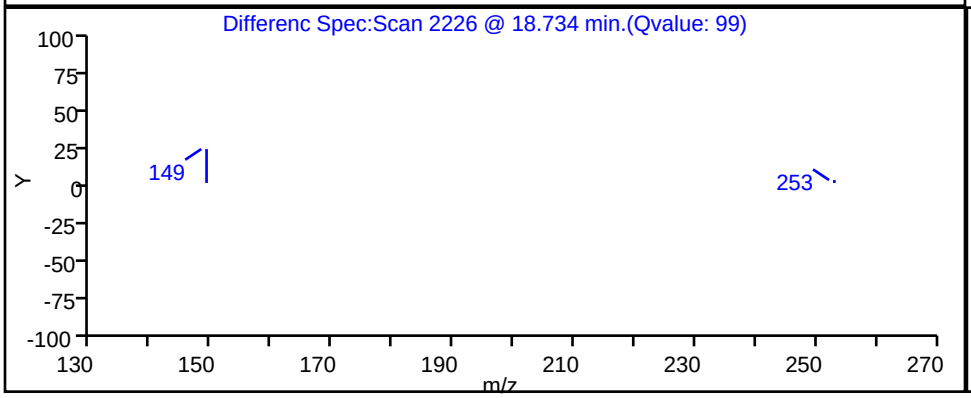


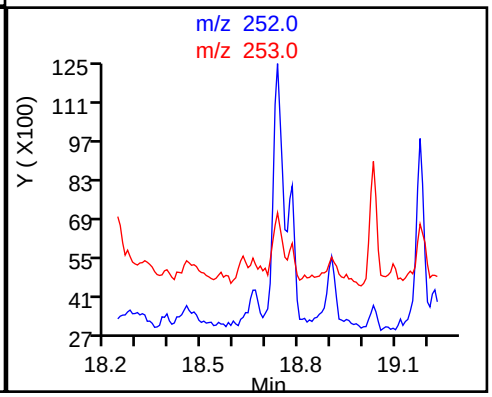








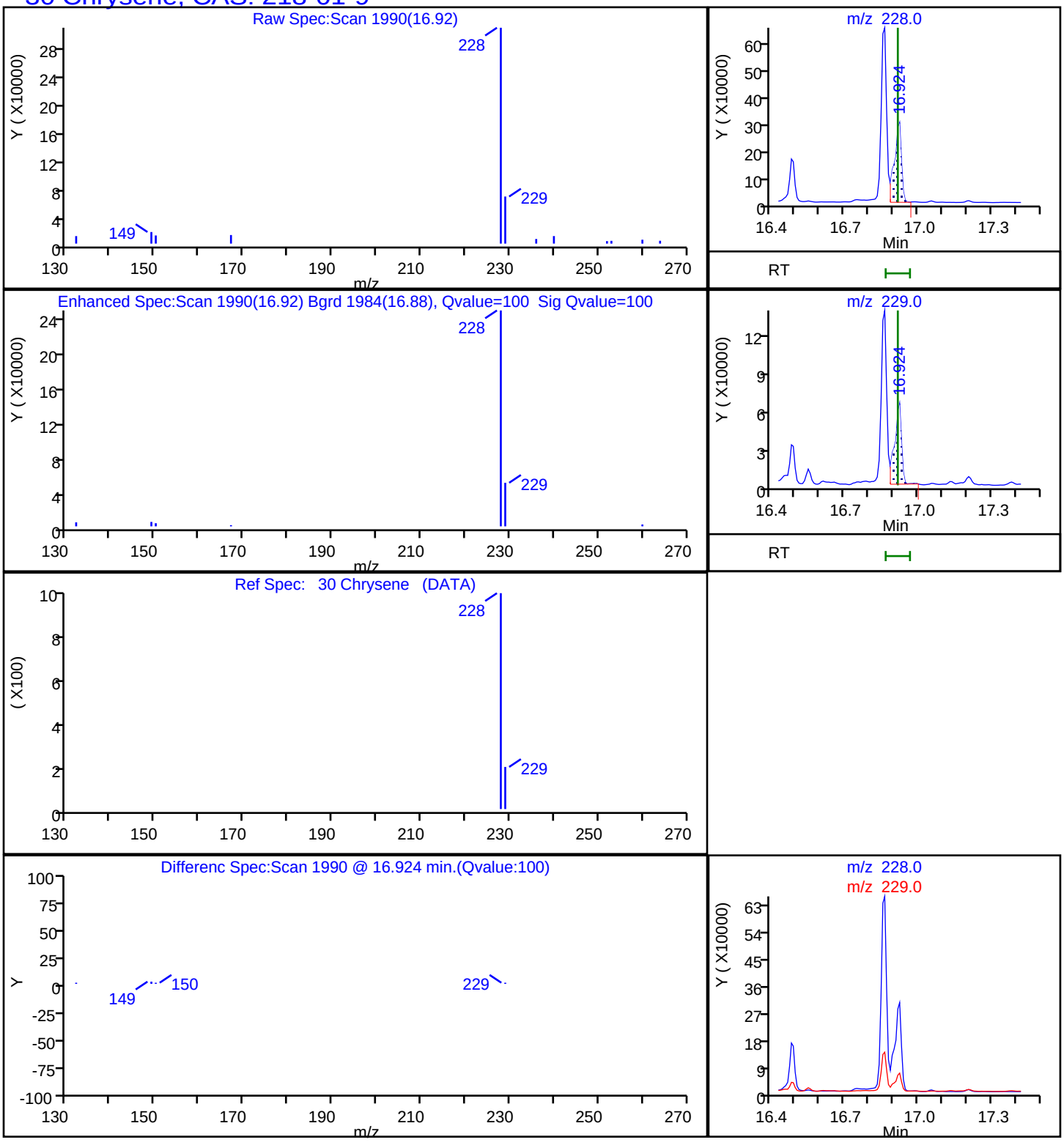




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D		
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

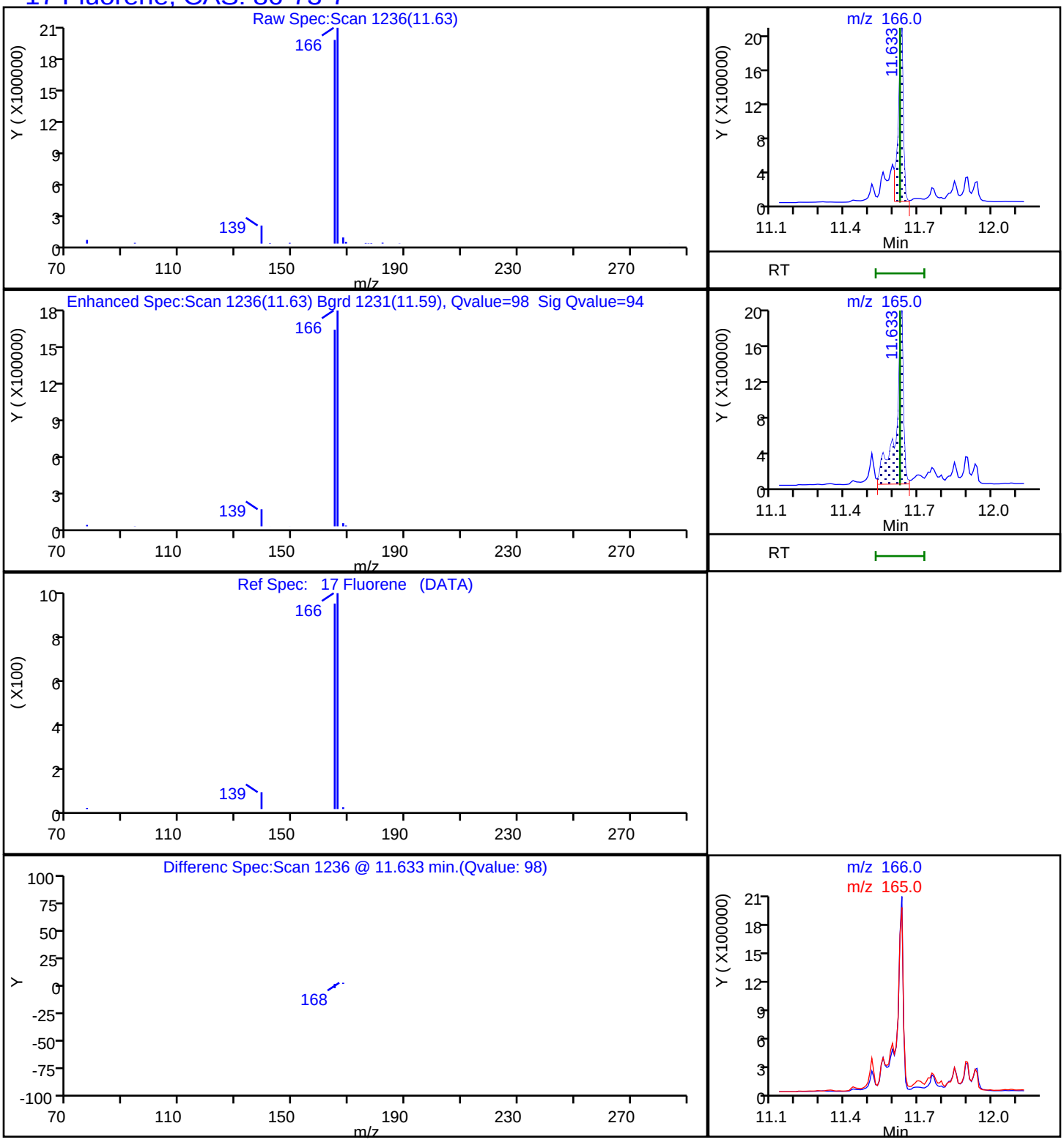
30 Chrysene, CAS: 218-01-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D				
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

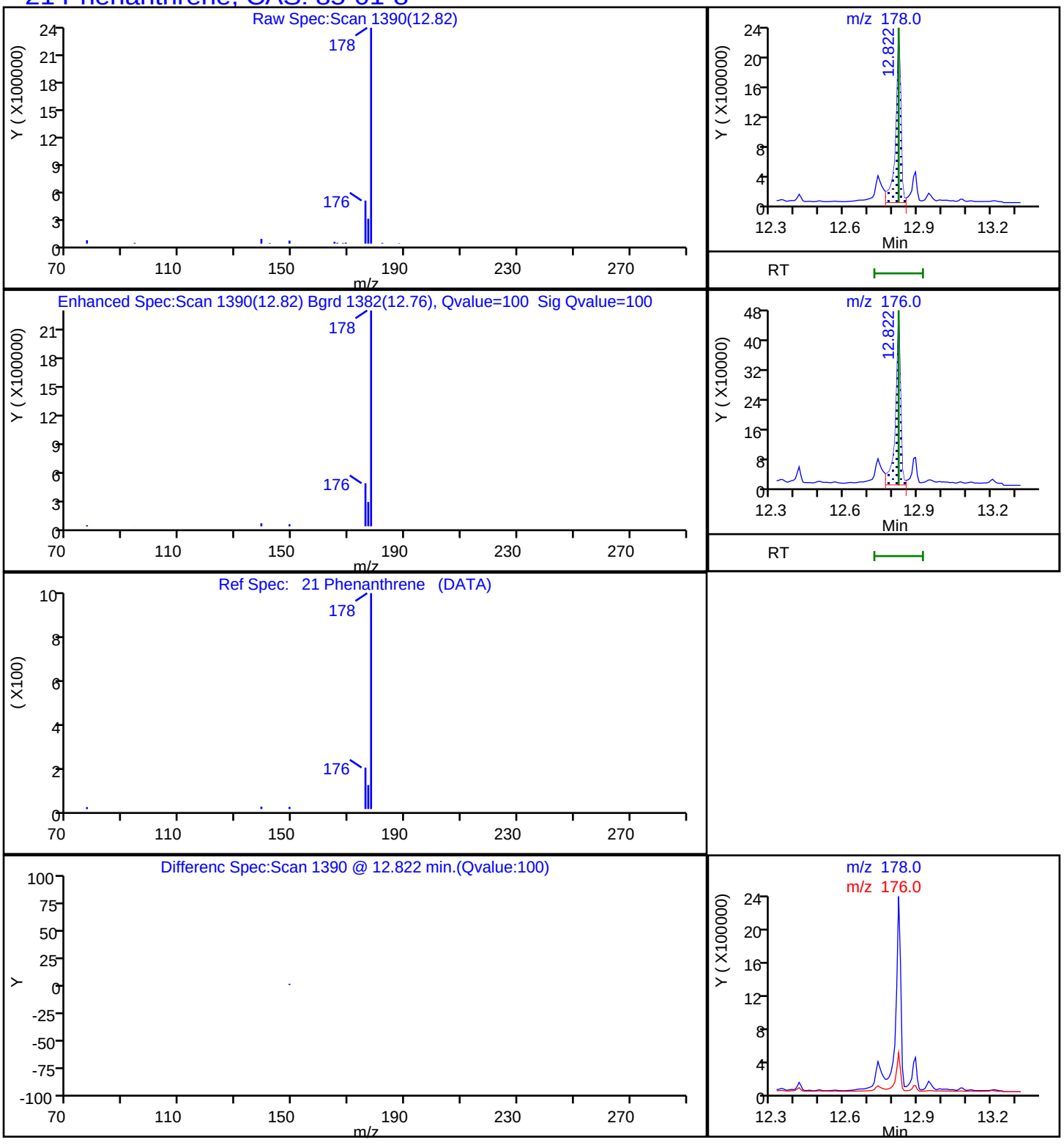
17 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D		
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

21 Phenanthrene, CAS: 85-01-8



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

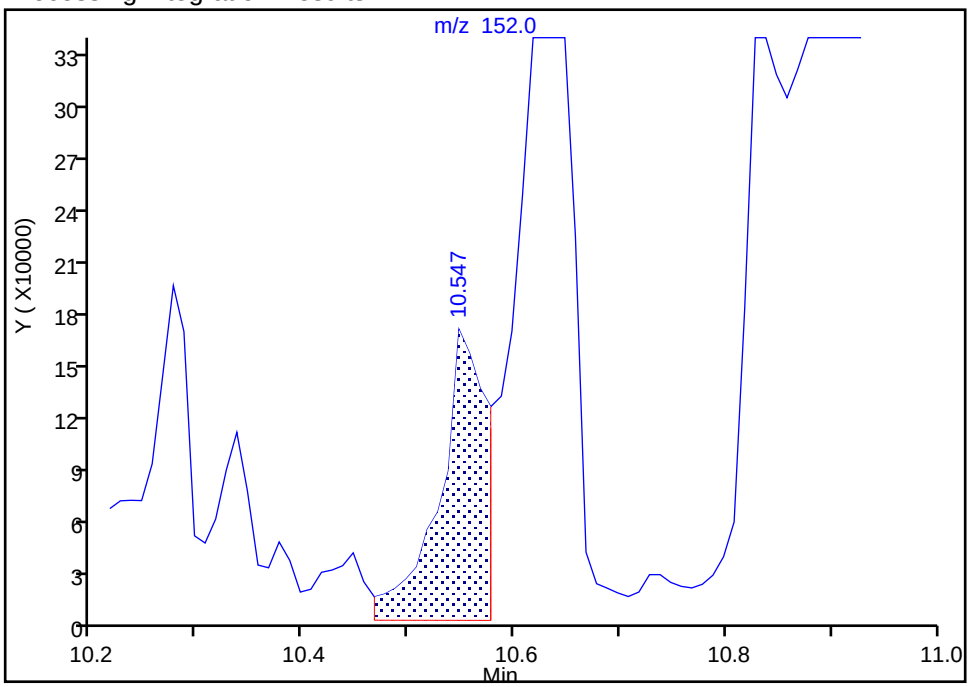
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Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

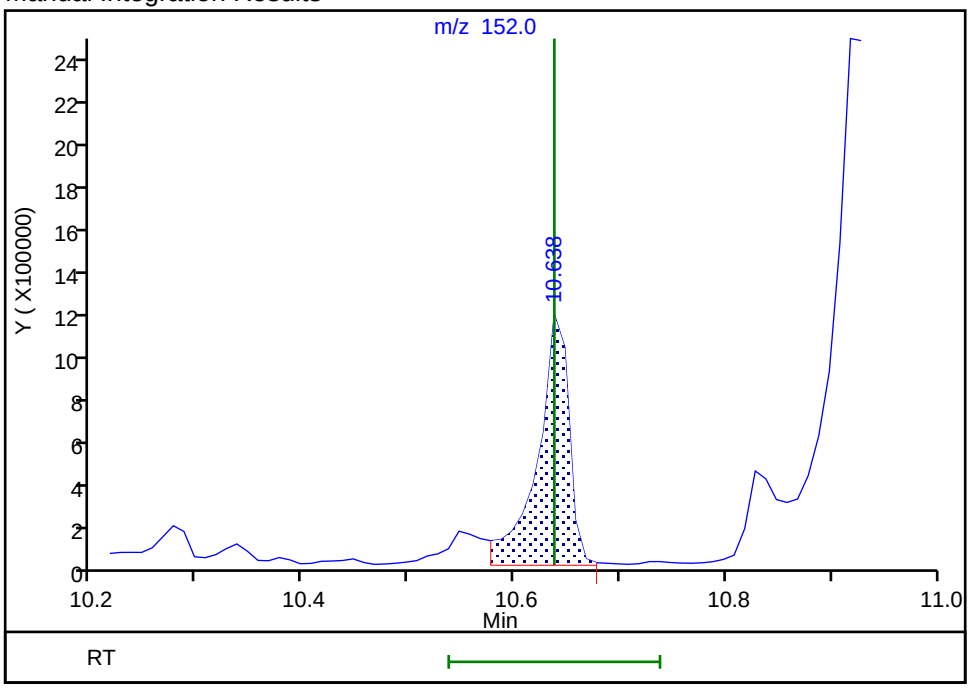
Processing Integration Results

RT: 10.55
Area: 480095
Amount: 0.215288
Amount Units: ug/ml



Manual Integration Results

RT: 10.64
Area: 2359815
Amount: 1.058207
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:50:05
Audit Action: Manually Integrated Audit Reason: Baseline

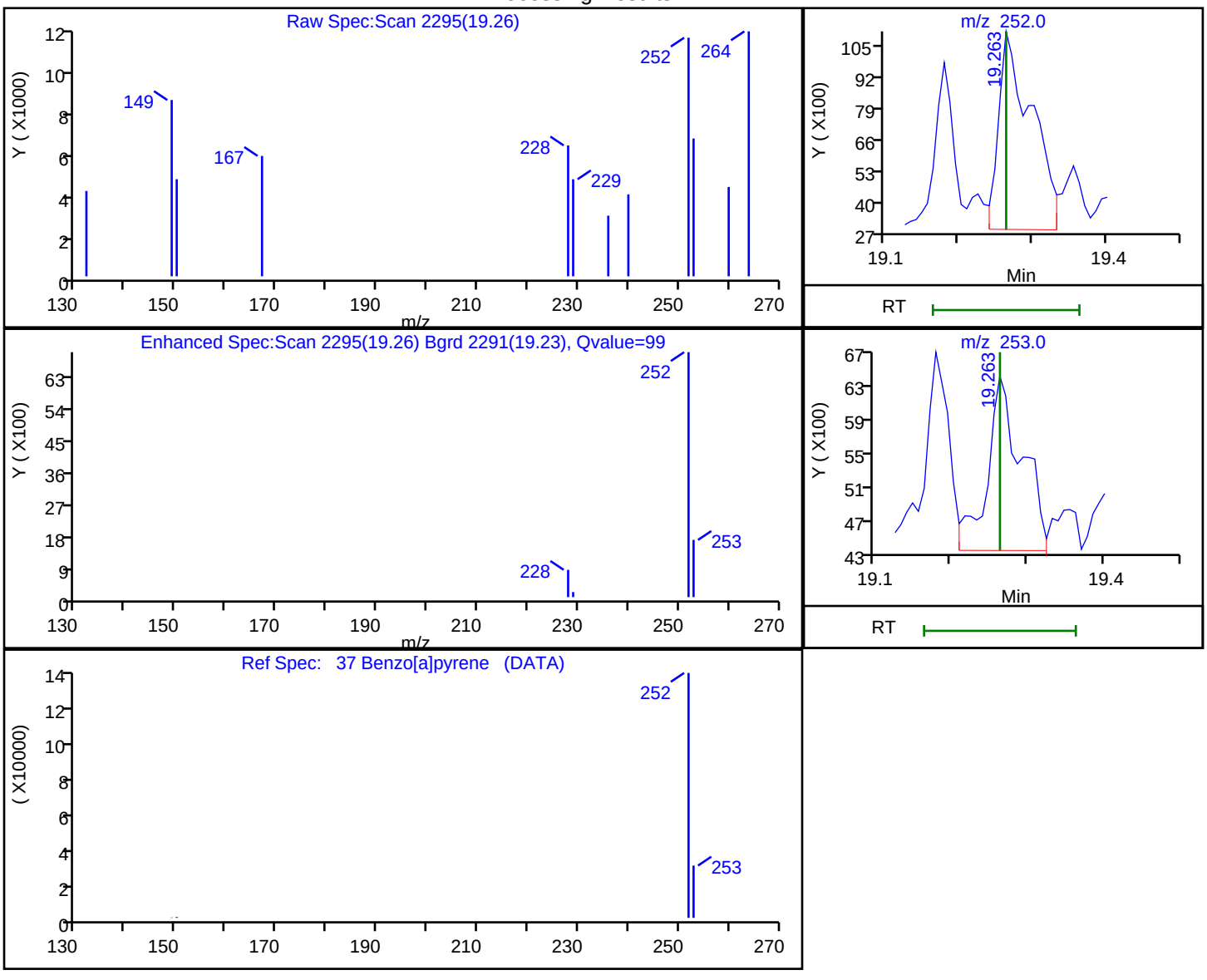
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D				
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.26	252.00	25414	0.006959
19.26	253.00	6136	

Reviewer: transuea, 06-Jul-2021 19:51:14

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

Eurofins Lancaster Laboratories Env, LLC

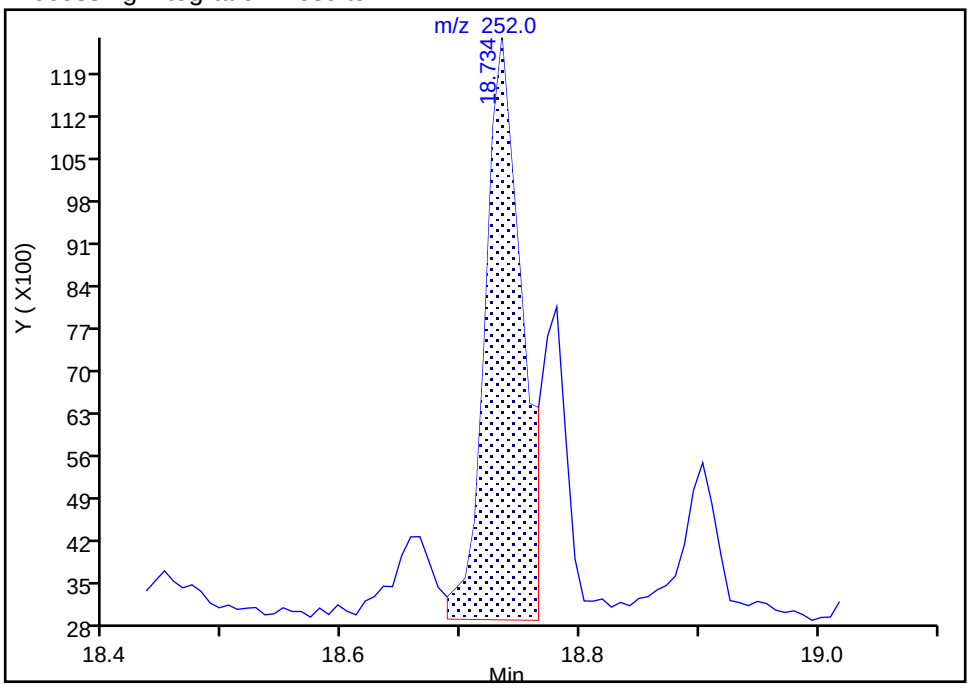
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Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

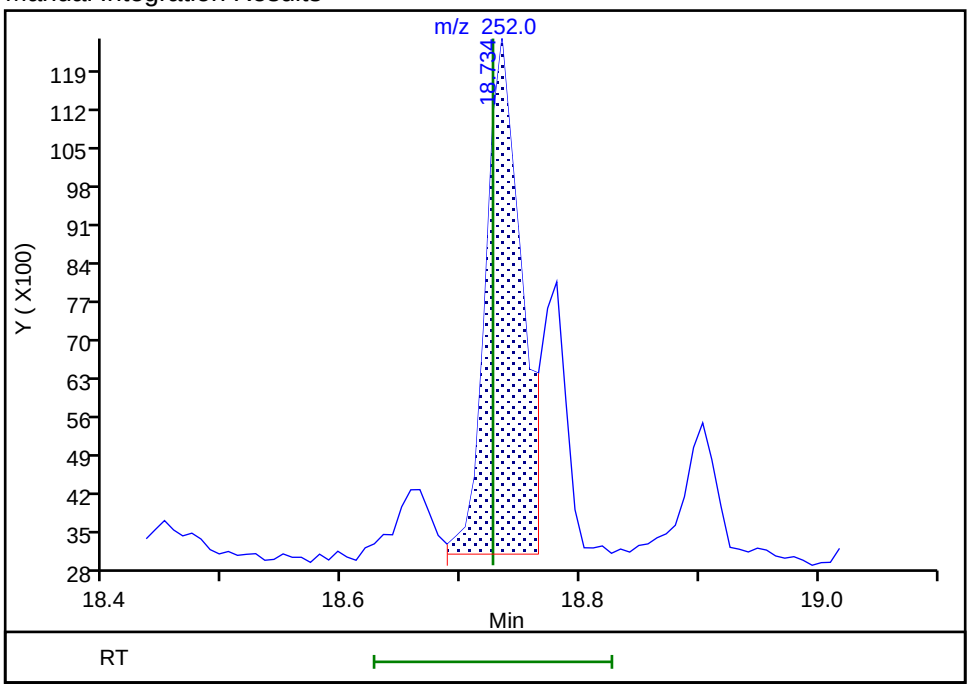
Processing Integration Results

RT: 18.73
Area: 19956
Amount: 0.004750
Amount Units: ug/ml



Manual Integration Results

RT: 18.73
Area: 19075
Amount: 0.004540
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:50:48
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

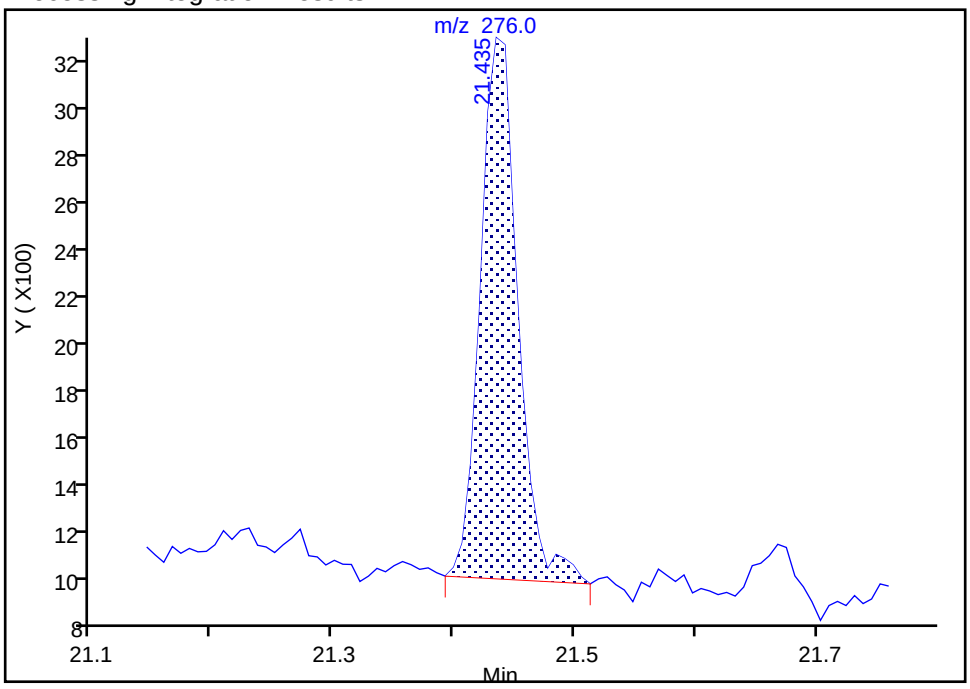
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D				
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

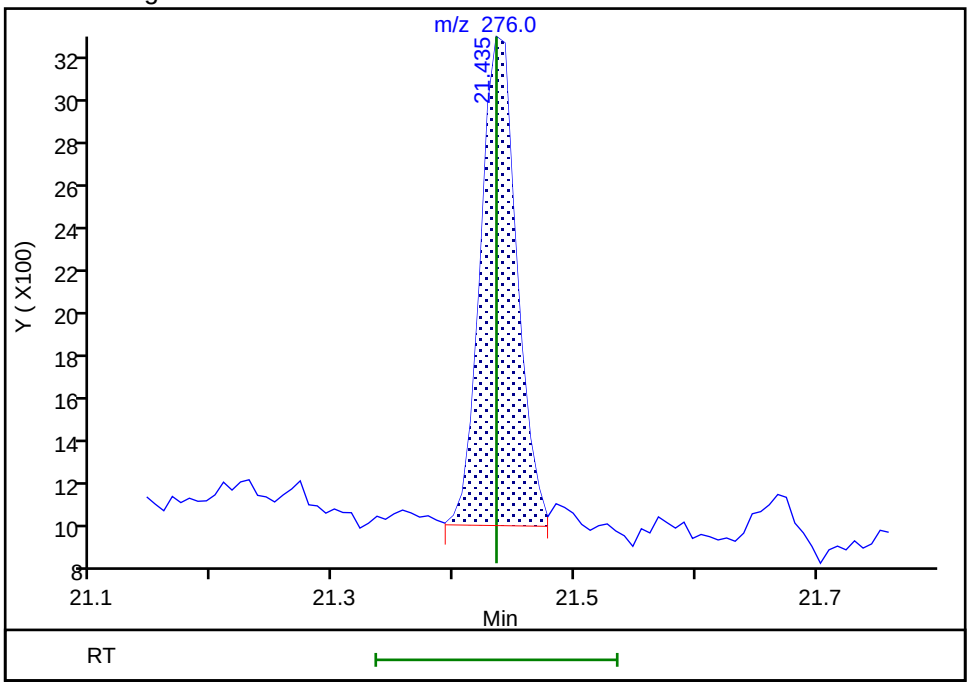
Processing Integration Results

RT: 21.43
Area: 4790
Amount: 0.001329
Amount Units: ug/ml



Manual Integration Results

RT: 21.43
Area: 4644
Amount: 0.001289
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:51:36

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

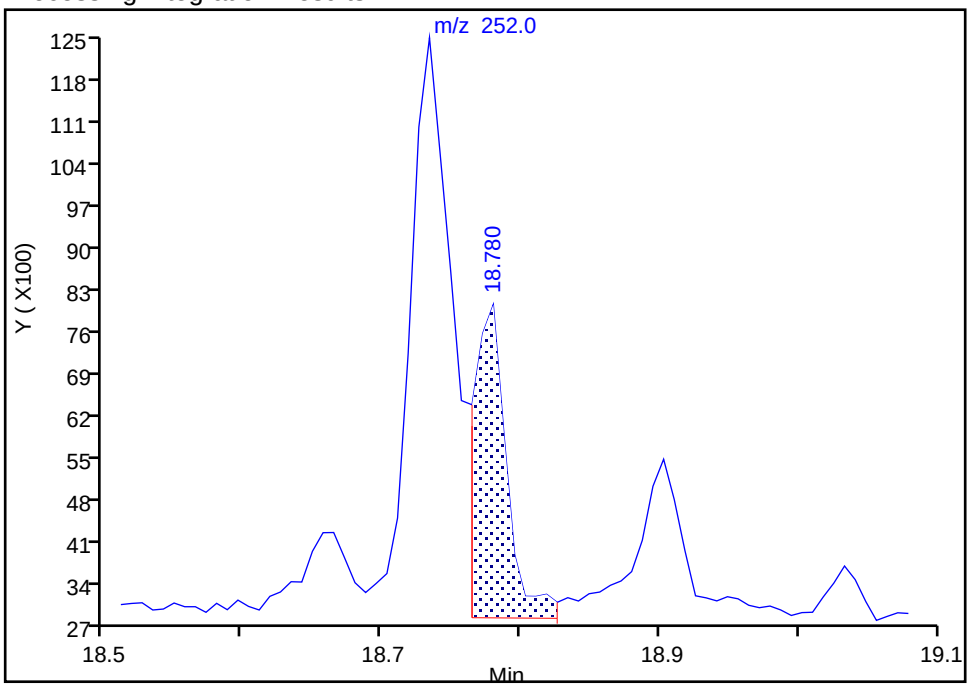
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D				
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

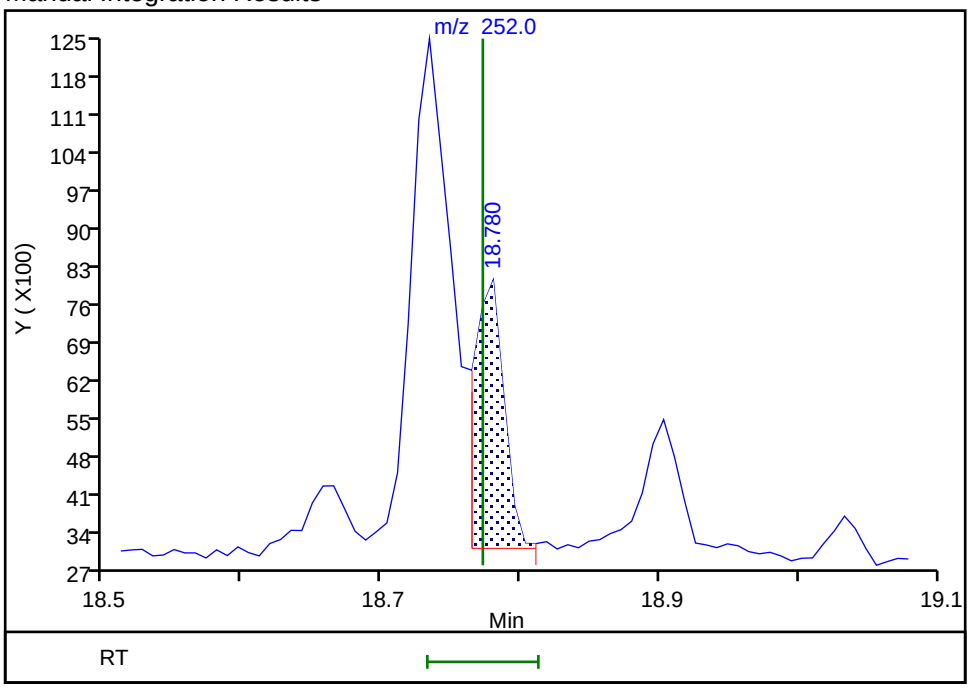
Processing Integration Results

RT: 18.78
Area: 7784
Amount: 0.001875
Amount Units: ug/ml



Manual Integration Results

RT: 18.78
Area: 6721
Amount: 0.001619
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:50:55

Audit Action: Manually Integrated Audit Reason: Baseline

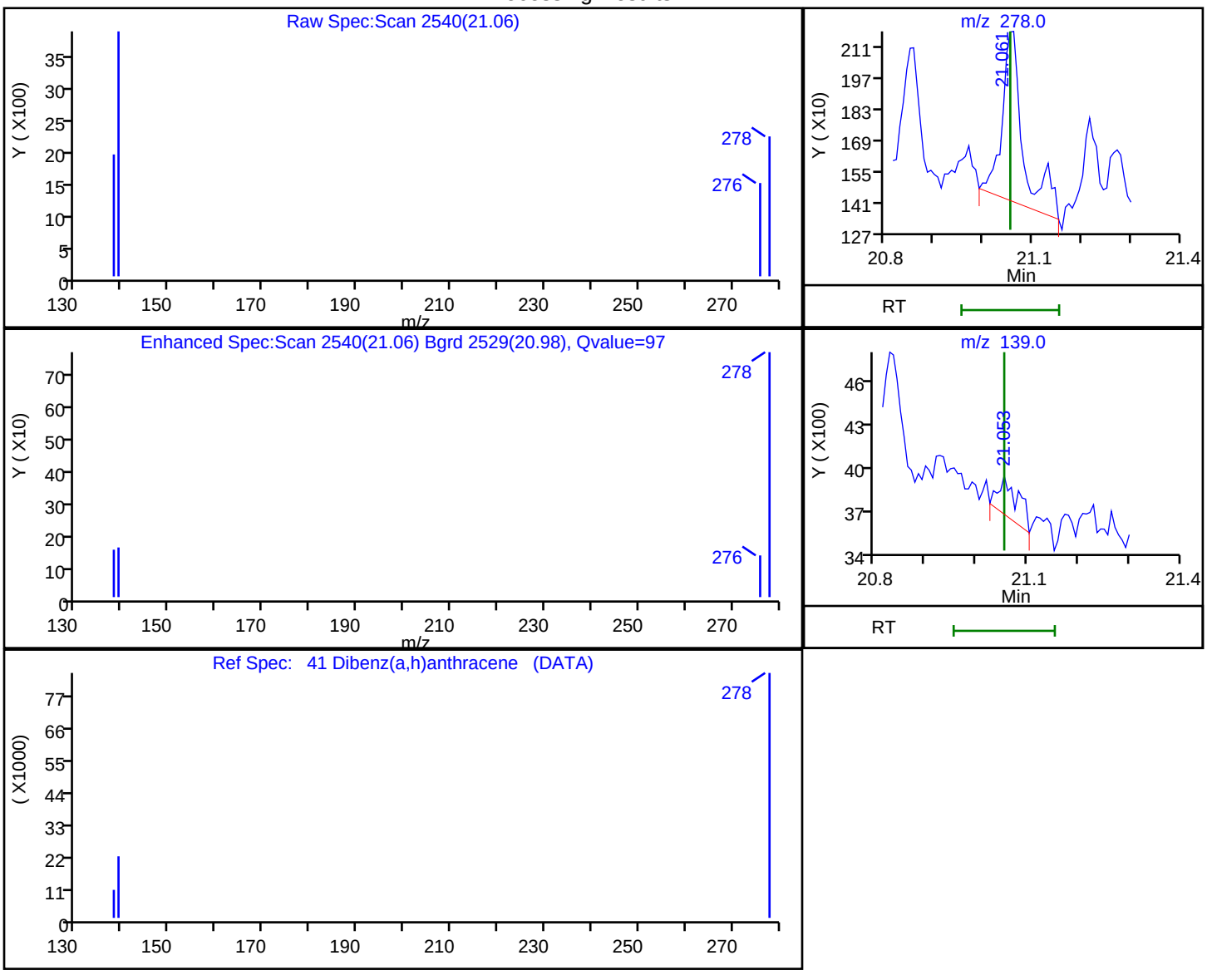
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D				
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.06	278.00	2314	0.007314
21.05	139.00	703	

Reviewer: transuea, 06-Jul-2021 19:51:28

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

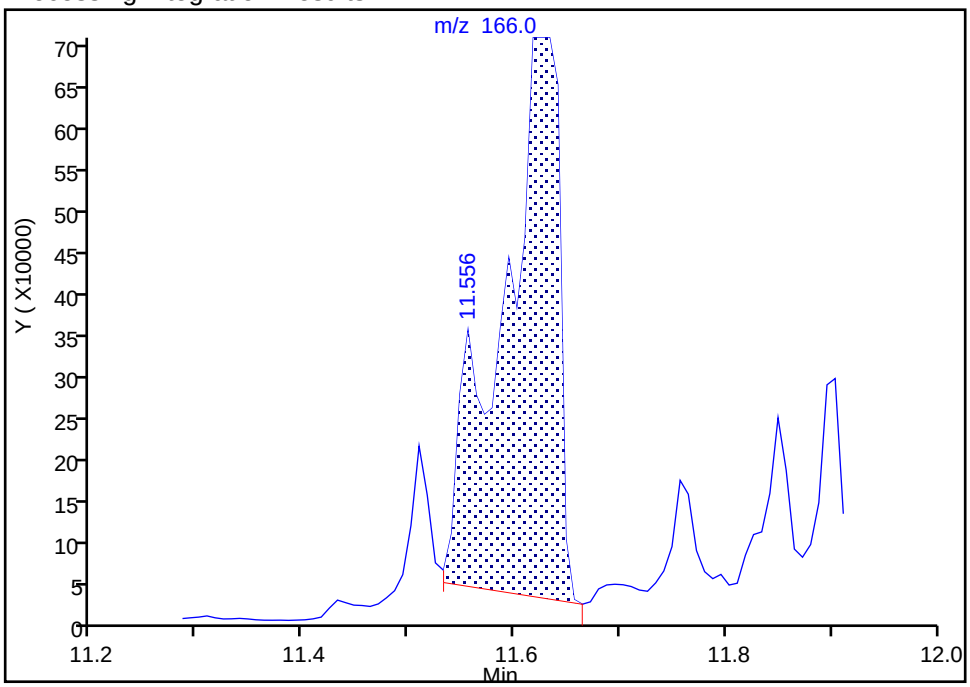
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Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

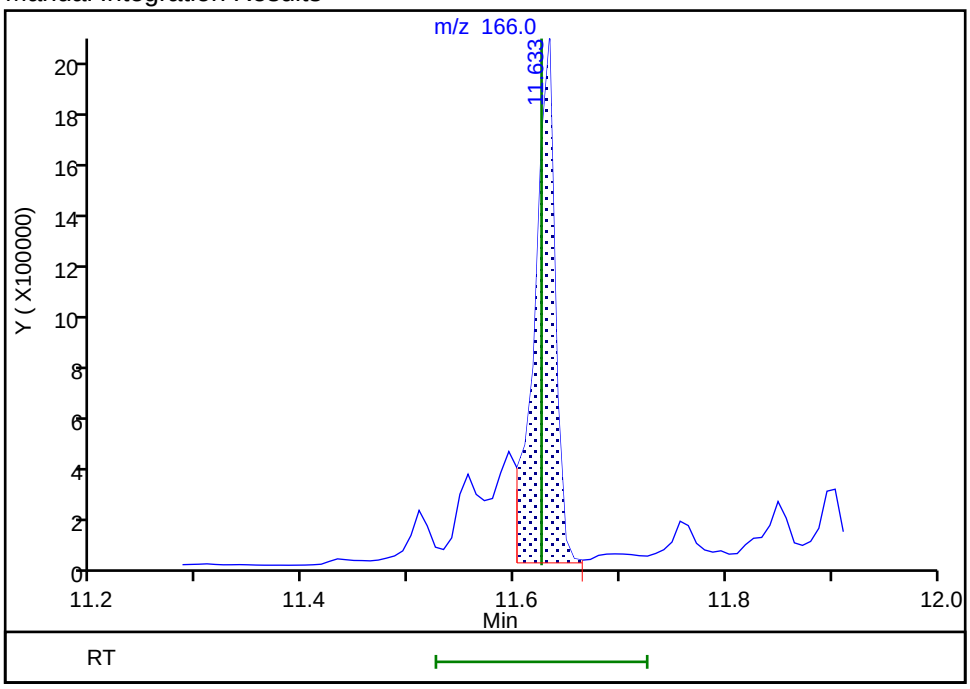
Processing Integration Results

RT: 11.56
Area: 3597788
Amount: 2.165116
Amount Units: ug/ml



Manual Integration Results

RT: 11.63
Area: 2660512
Amount: 1.601072
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:50:28

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

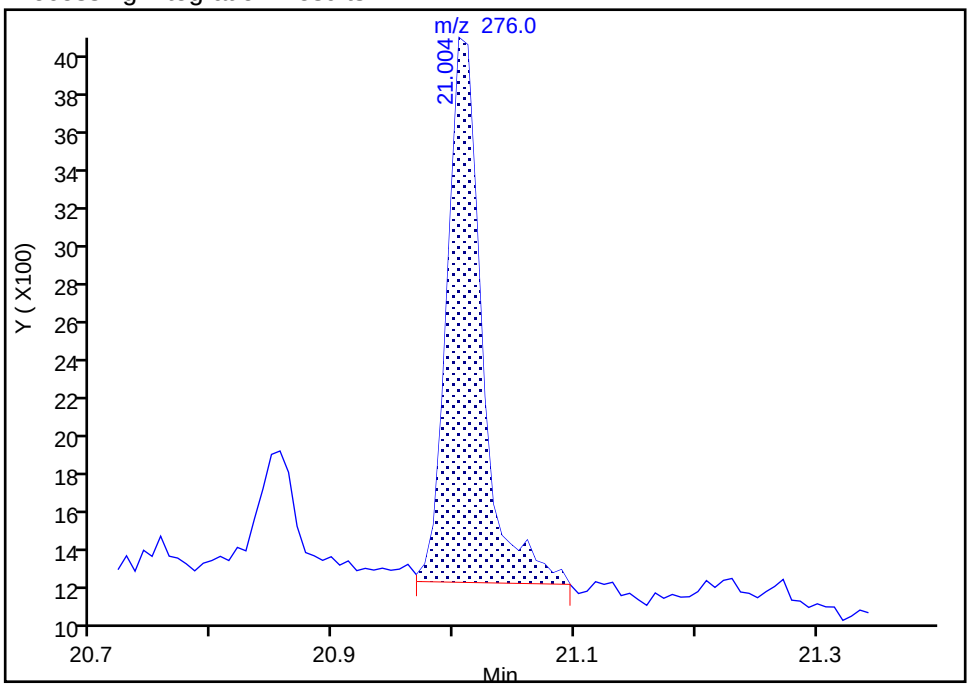
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Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

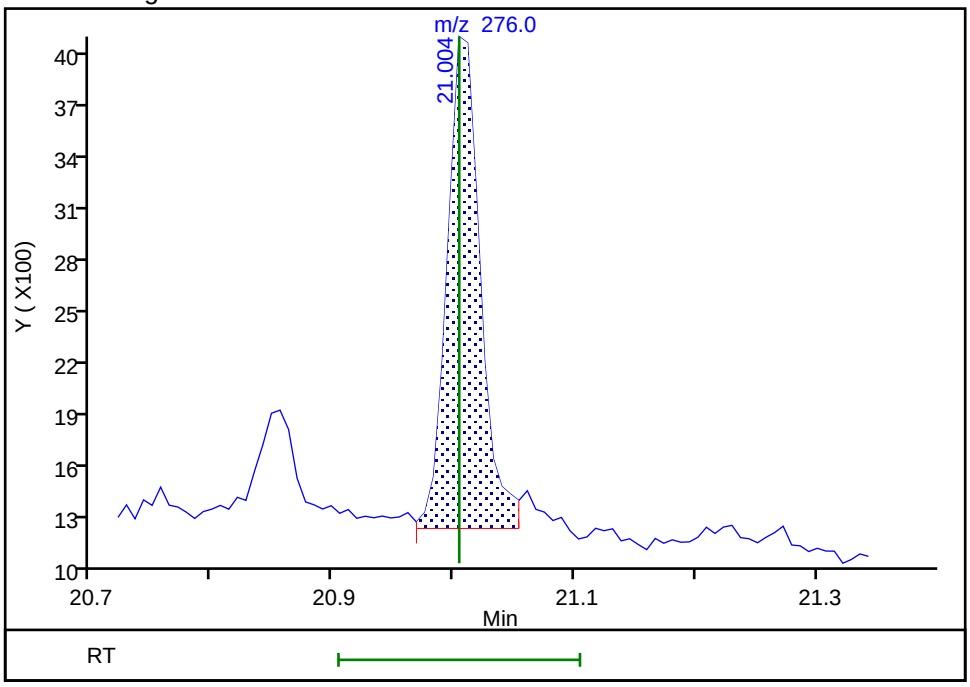
Processing Integration Results

RT: 21.00
Area: 5751
Amount: 0.001947
Amount Units: ug/ml



Manual Integration Results

RT: 21.00
Area: 5451
Amount: 0.001845
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:51:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

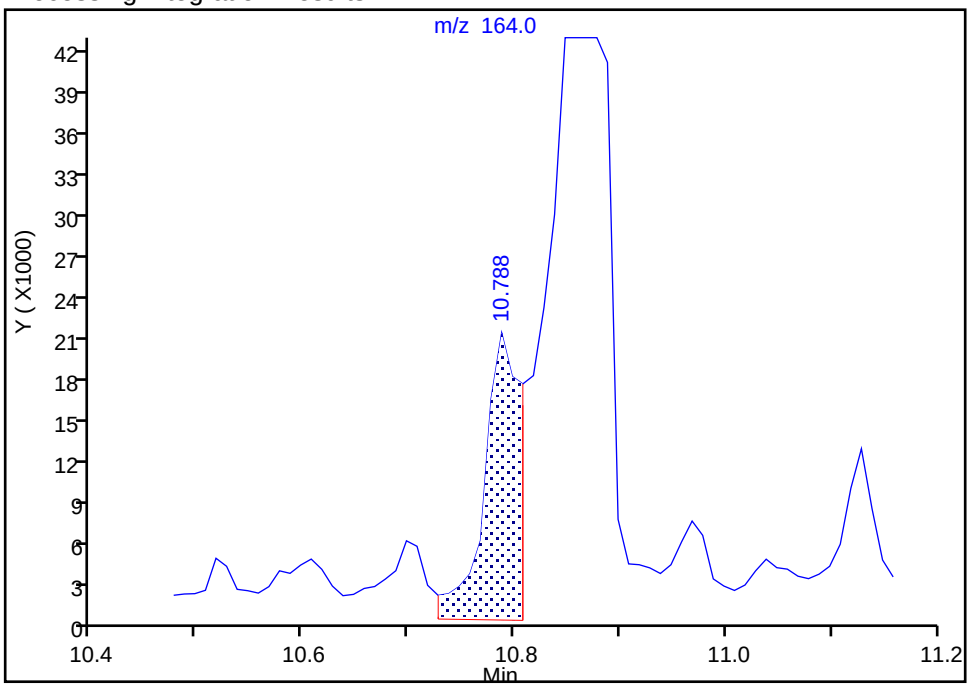
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0384.D				
Injection Date:	06-Jul-2021 12:58:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

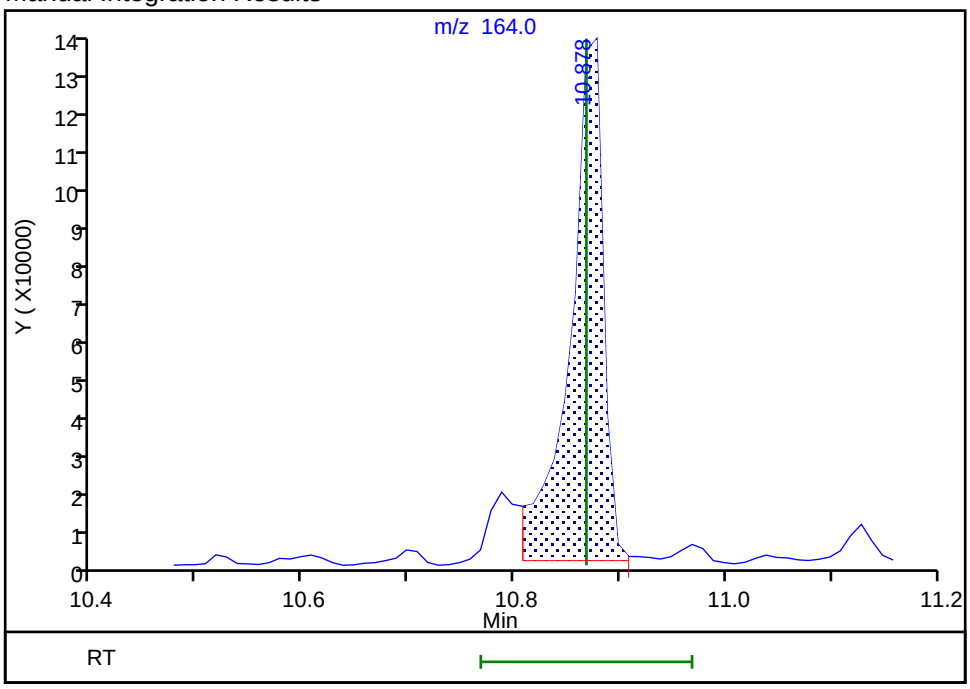
Processing Integration Results

RT: 10.79
Area: 45608
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.88
Area: 289845
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:49:55

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: DUP-20210624 DL Lab Sample ID: 410-45105-20 DL

Matrix: Groundwater Lab File ID: NG0385.D

Analysis Method: 8270D SIM Date Collected: 06/24/2021 00:00

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 243.9(mL) Date Analyzed: 07/06/2021 13:28

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145132 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	36		0.51	0.10
206-44-0	Fluoranthene	12		0.51	0.10
91-20-3	Naphthalene	91		0.72	0.31
129-00-0	Pyrene	15		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	86		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		36-111
93951-69-0	Fluoranthene-d10 (Surr)	101		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D
Lims ID: 410-45105-A-20-A DL
Client ID: DUP-20210624
Sample Type: Client
Inject. Date: 06-Jul-2021 13:28:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-45105-A-20-A
Misc. Info.: 410-0033556-016
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 20:01:03 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: transuea Date: 06-Jul-2021 19:55:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.065	6.053	0.012	100	168936	0.2500	
* 5 Naphthalene-d8	136	8.027	8.027	0.000	65	588833	0.2500	
6 Naphthalene	128	8.065	8.052	0.013	98	5390579	2.22	
$ 9 1-Methylnaphthalene-d10	152	9.286	9.286	0.000	70	27323	0.0218	M
12 Acenaphthylene	152	10.638	10.638	0.000	98	297893	0.1178	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	91	328772	0.2500	M
14 Acenaphthene	154	10.918	10.918	0.000	93	1287702	0.8784	M
17 Fluorene	166	11.625	11.625	-0.001	99	346570	0.1839	M
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	650686	0.2500	
21 Phenanthrene	178	12.822	12.822	0.000	100	429400	0.1457	M
22 Anthracene	178	12.884	12.884	0.000	100	71575	0.0276	M
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.458	0.000	97	67279	0.0251	
25 Fluoranthene	202	14.484	14.484	0.000	94	912903	0.2967	M
26 Pyrene	202	14.828	14.828	0.000	95	1275570	0.3685	M
28 Benzo[a]anthracene	228	16.855	16.855	0.000	62	103532	0.0306	M
* 29 Chrysene-d12	240	16.870	16.870	0.000	82	686108	0.2500	
30 Chrysene	228	16.916	16.917	0.000	100	59431	0.0187	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.217	19.225	-0.008	96	64942	0.0214	
* 38 Perylene-d12	264	19.355	19.355	0.000	93	821428	0.2500	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

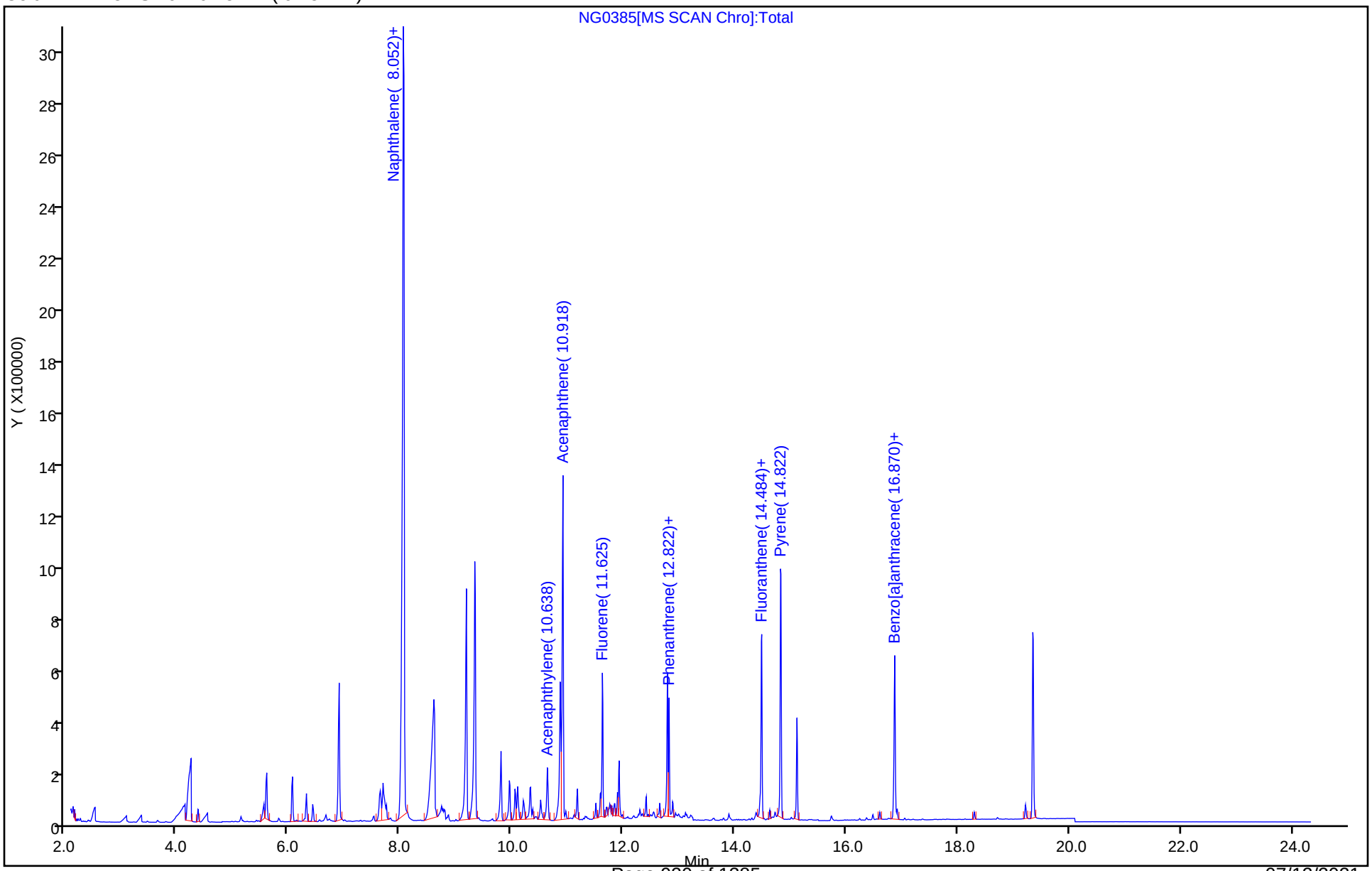
MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 20:01:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D				
Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20	Worklist Smp#:	16
Client ID:	DUP-20210624				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	16
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

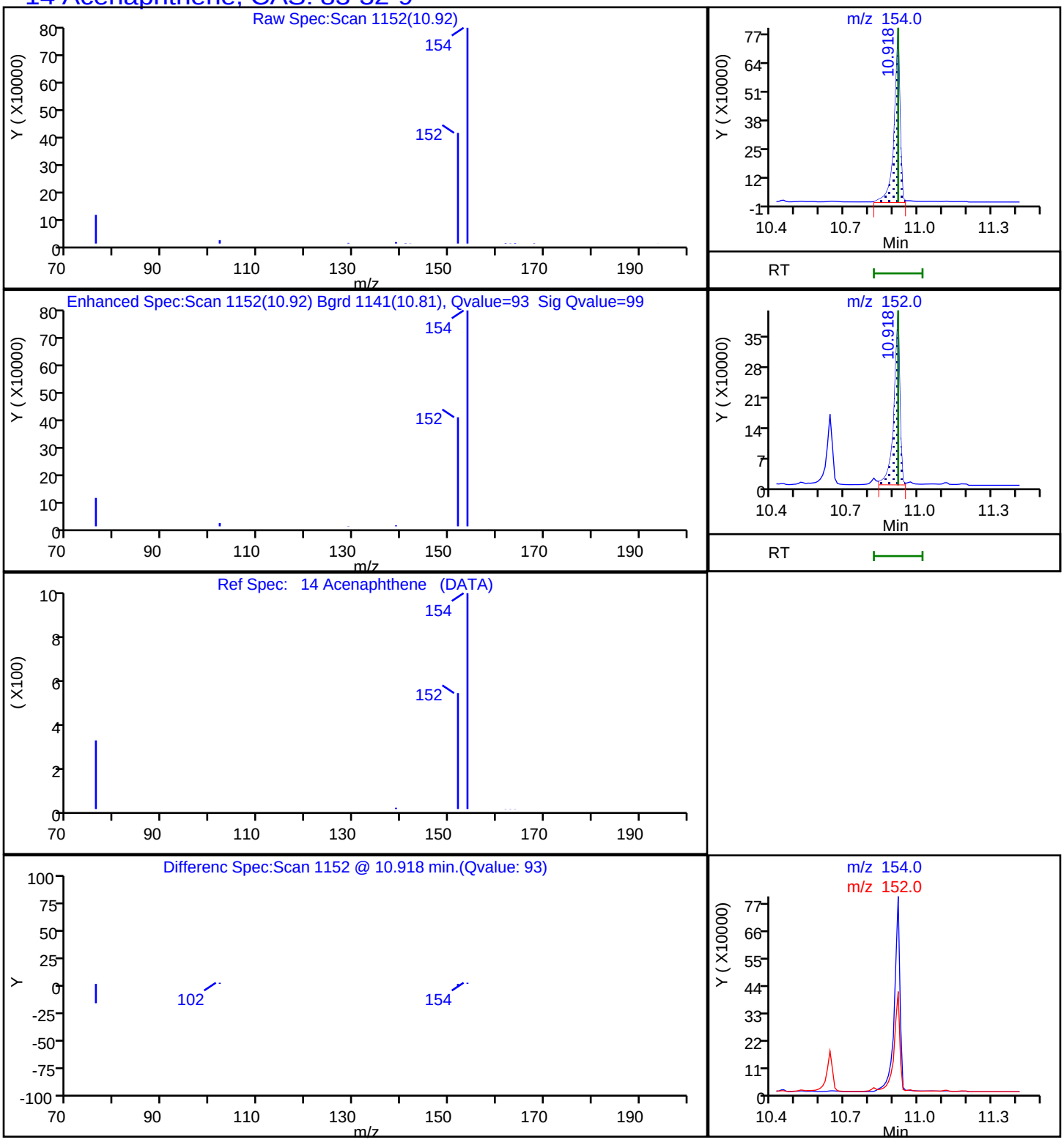
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D		
Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

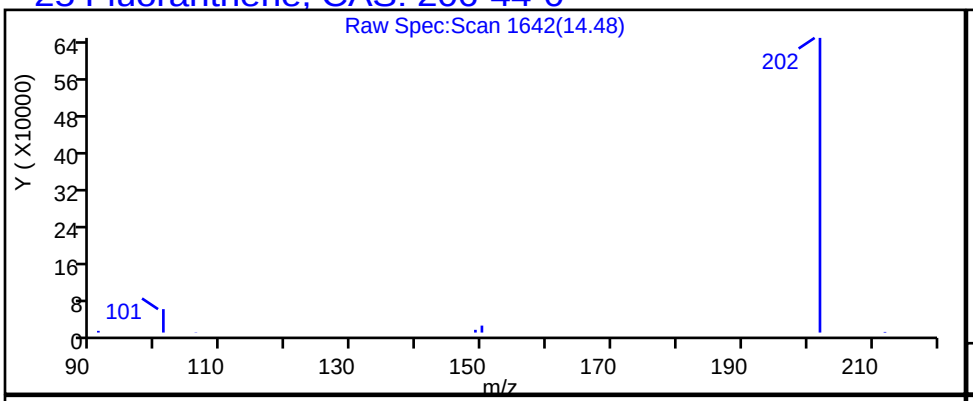
14 Acenaphthene, CAS: 83-32-9

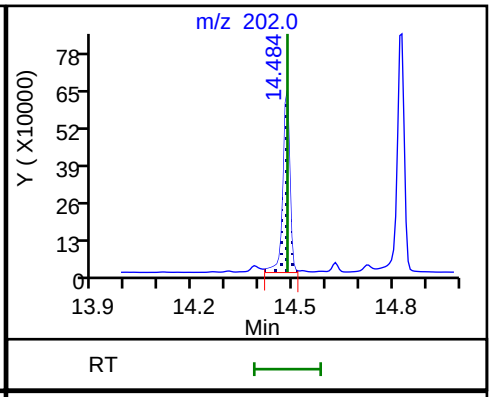


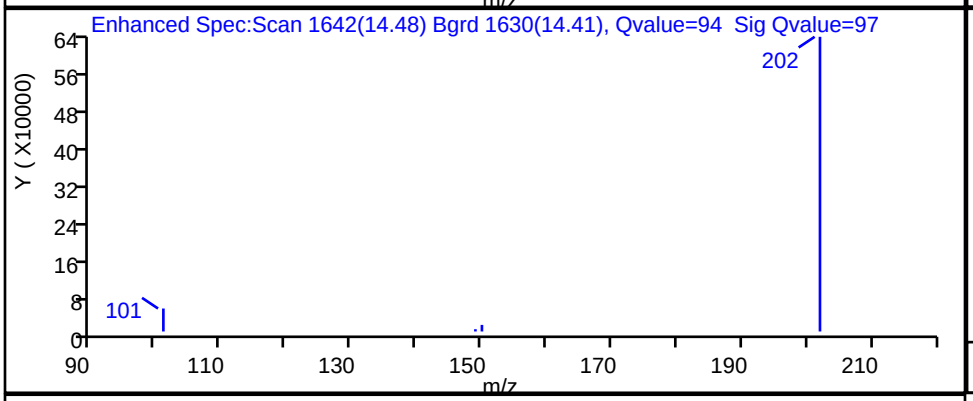
Eurofins Lancaster Laboratories Env, LLC

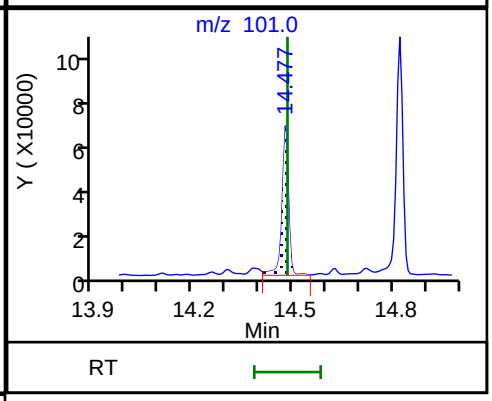
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Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

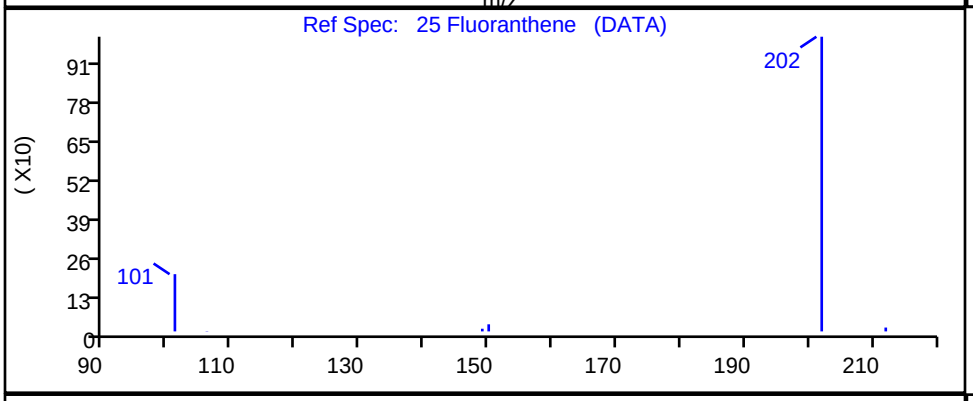
25 Fluoranthene, CAS: 206-44-0

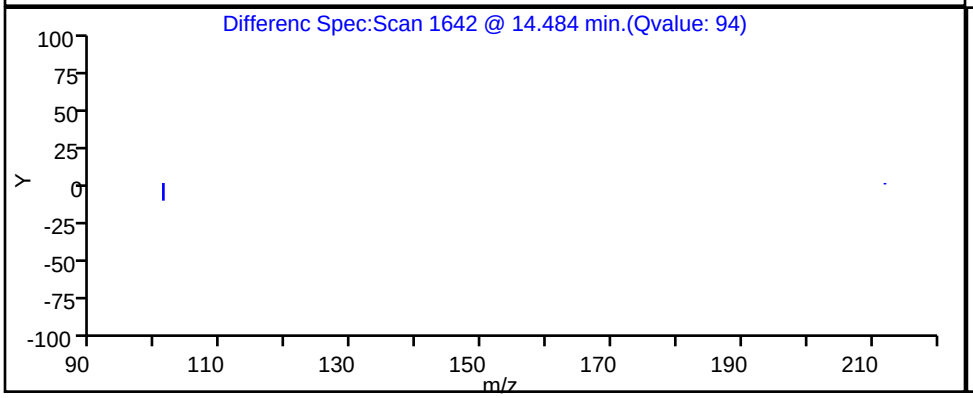


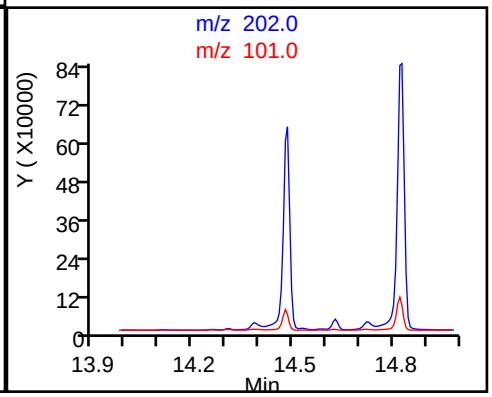












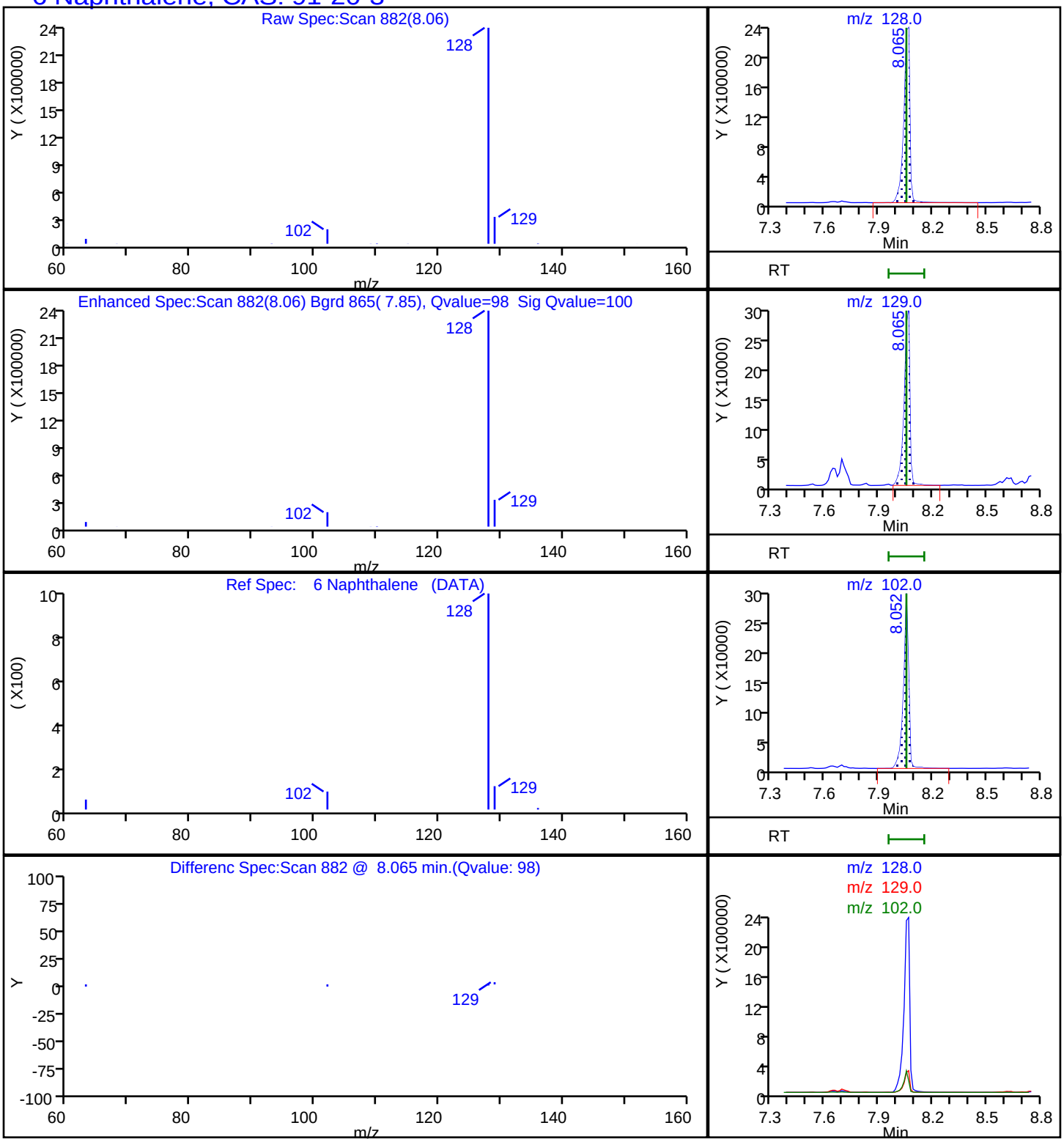
Report Date: 06-Jul-2021 20:01:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D

Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

6 Naphthalene, CAS: 91-20-3



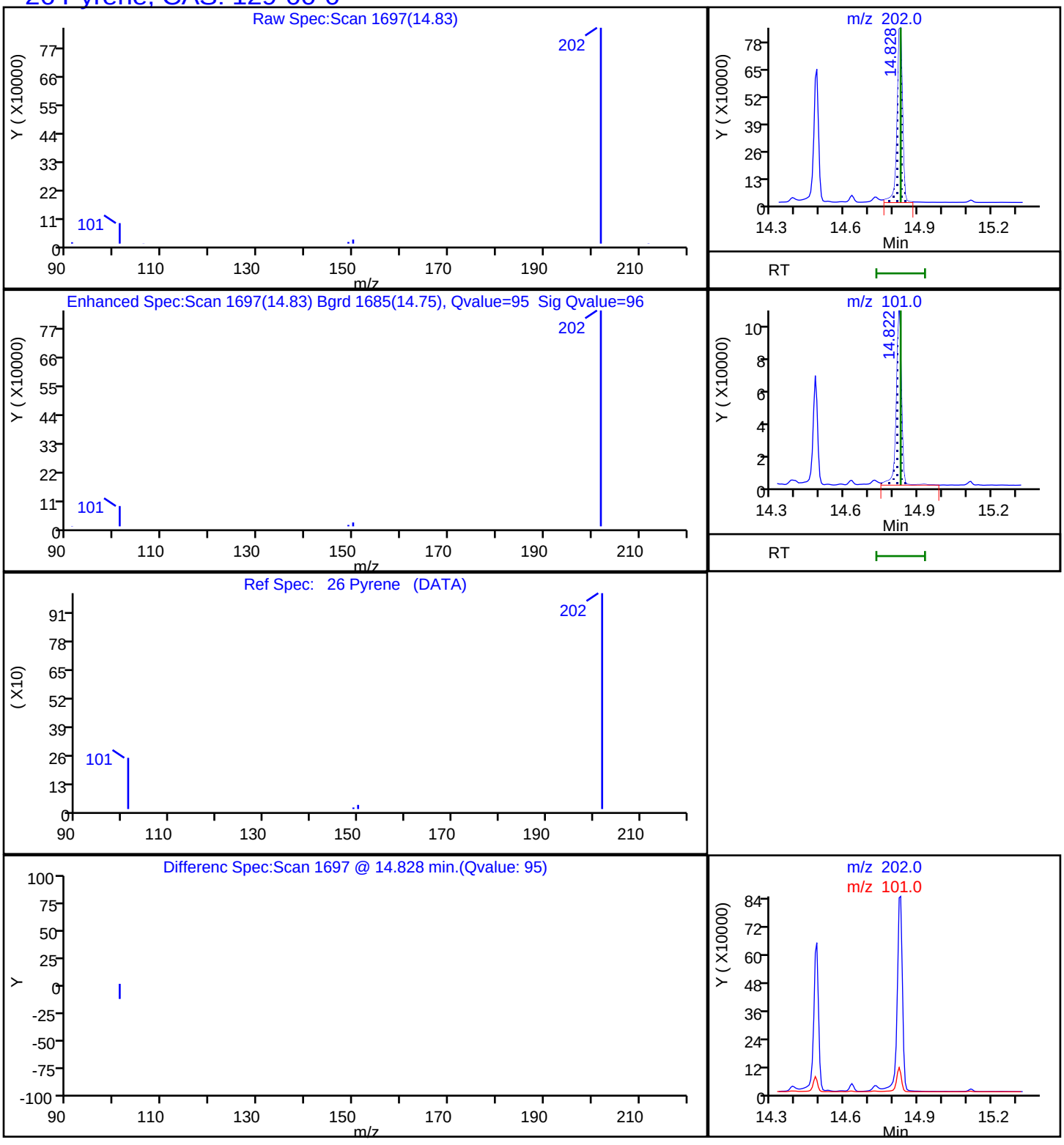
Report Date: 06-Jul-2021 20:01:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D

Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



Eurofins Lancaster Laboratories Env, LLC

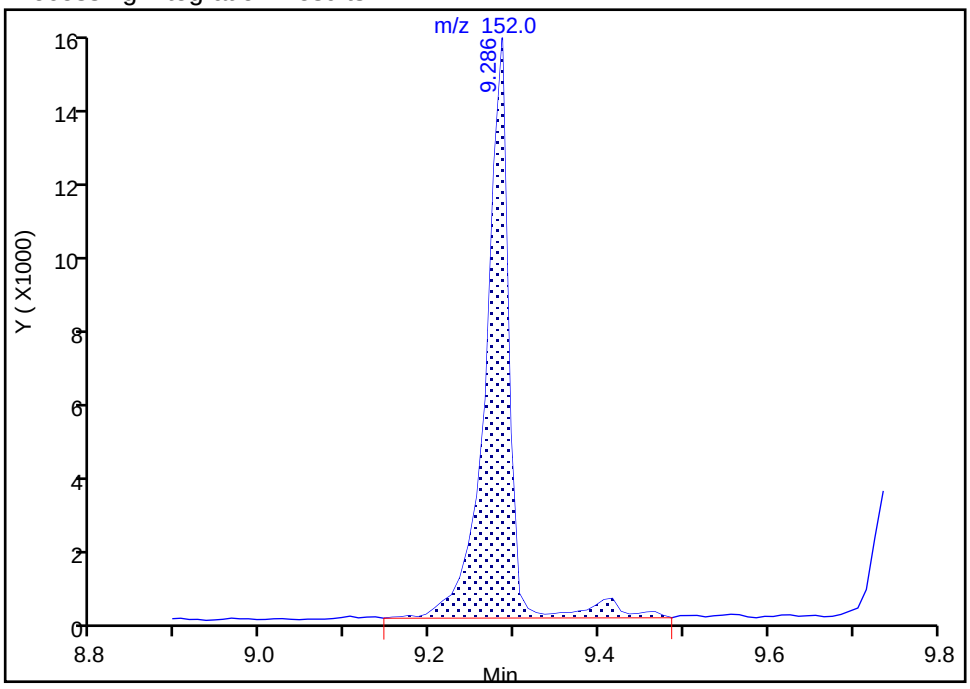
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Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 9 1-Methylnaphthalene-d10, CAS: 38072-94-5

Signal: 1

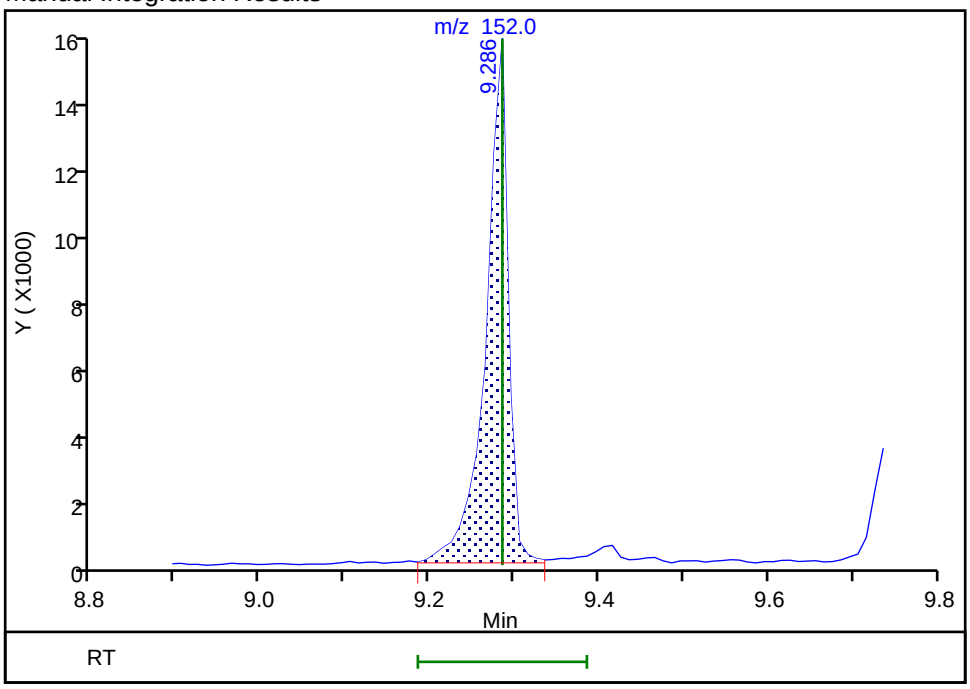
Processing Integration Results

RT: 9.29
Area: 29153
Amount: 0.023244
Amount Units: ug/ml



Manual Integration Results

RT: 9.29
Area: 27323
Amount: 0.021785
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:52:15
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

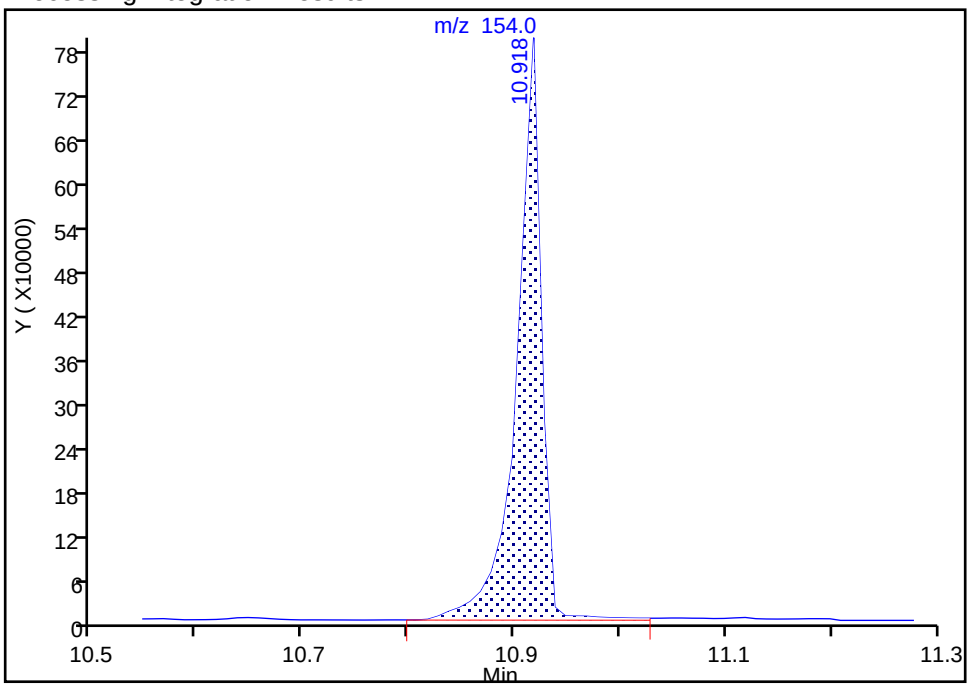
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Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

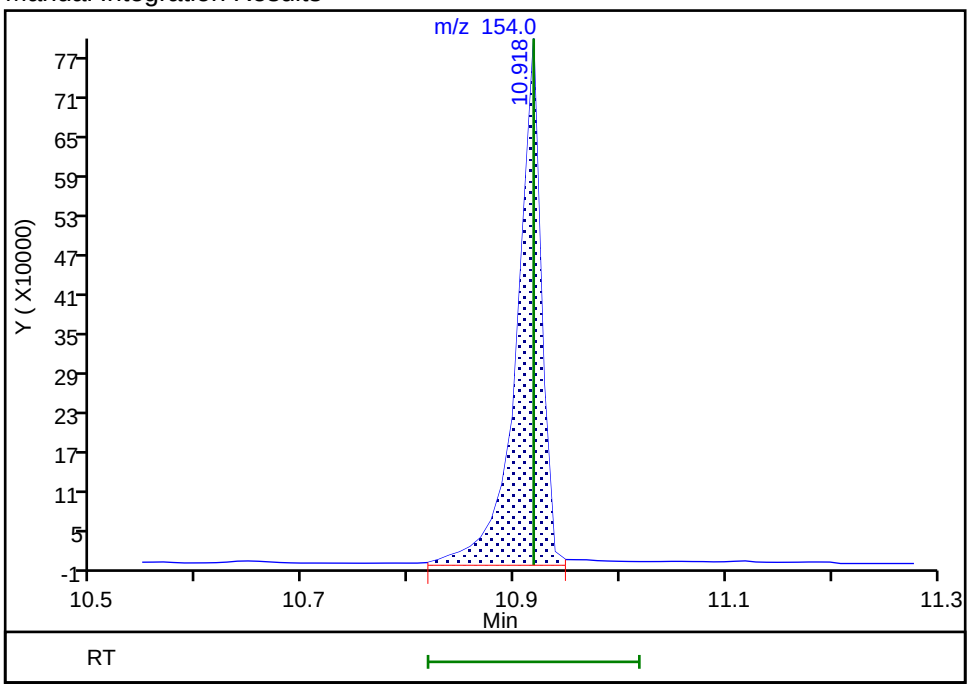
Processing Integration Results

RT: 10.92
Area: 1283938
Amount: 0.875816
Amount Units: ug/ml



Manual Integration Results

RT: 10.92
Area: 1287702
Amount: 0.878383
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:52:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

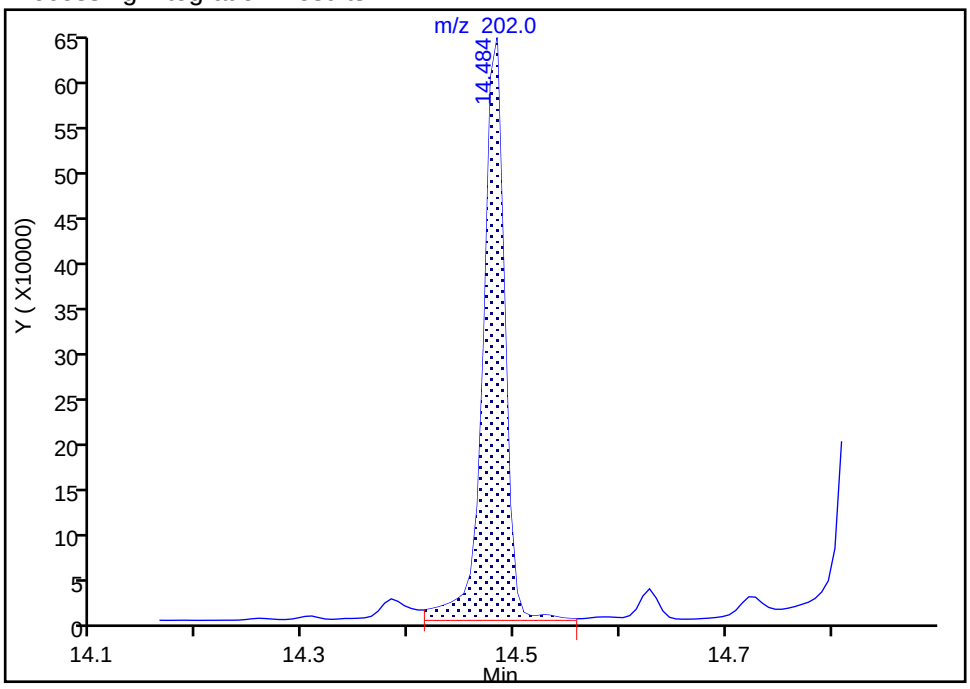
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D				
Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

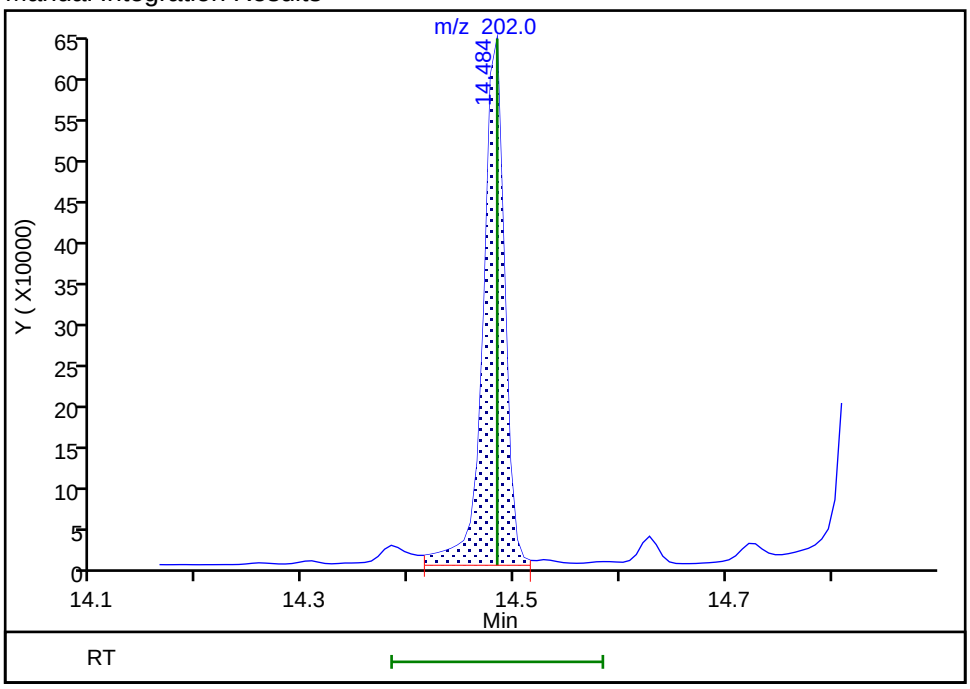
Processing Integration Results

RT: 14.48
Area: 919838
Amount: 0.298985
Amount Units: ug/ml



Manual Integration Results

RT: 14.48
Area: 912903
Amount: 0.296731
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:54:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

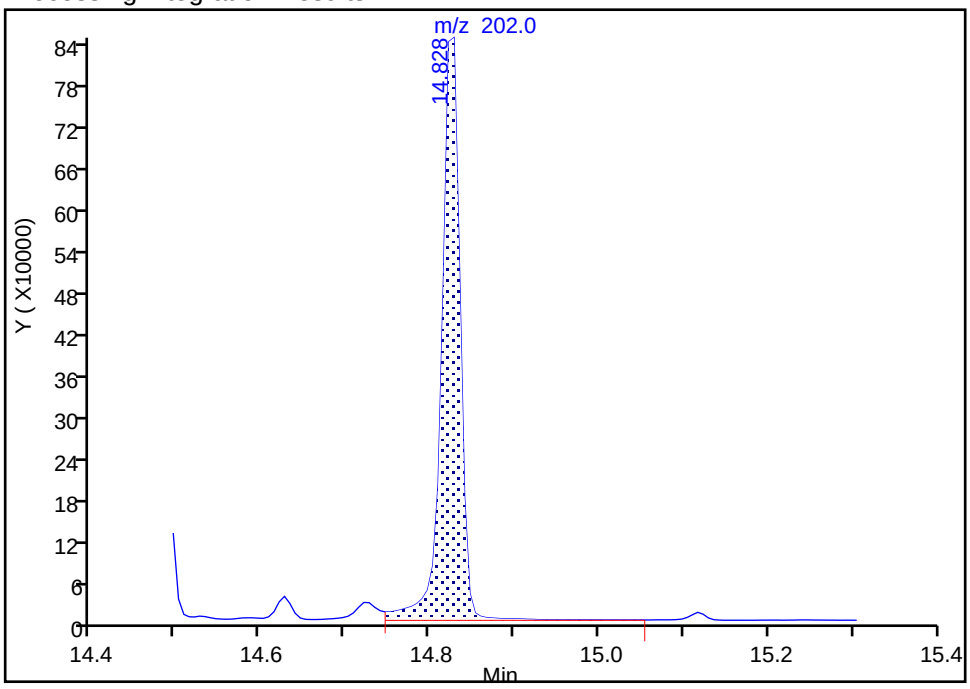
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0385.D				
Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

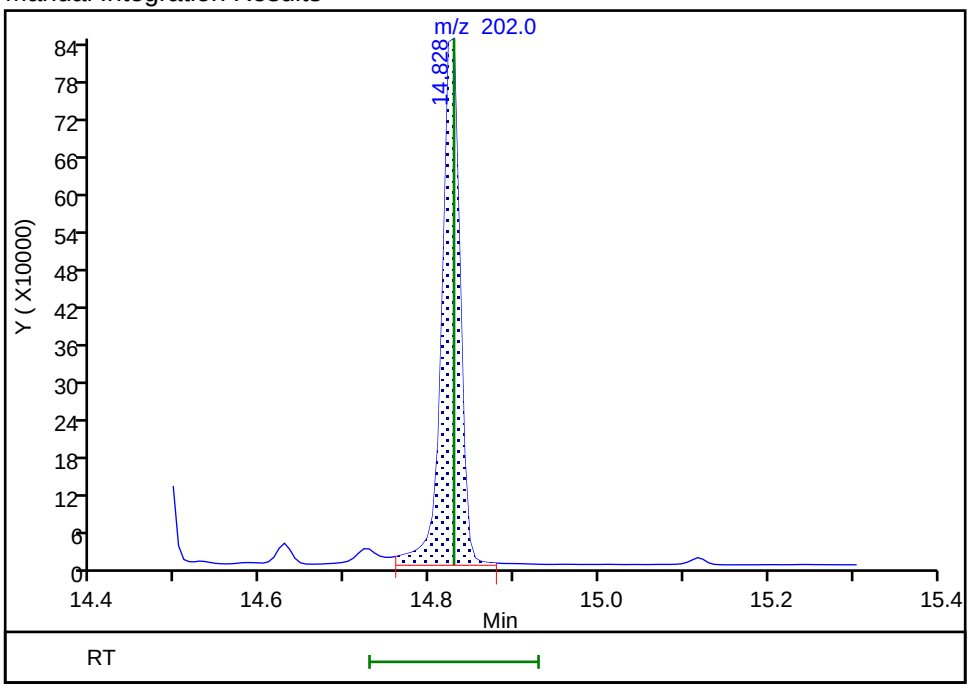
Processing Integration Results

RT: 14.83
Area: 1291961
Amount: 0.373216
Amount Units: ug/ml



Manual Integration Results

RT: 14.83
Area: 1275570
Amount: 0.368481
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:54:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

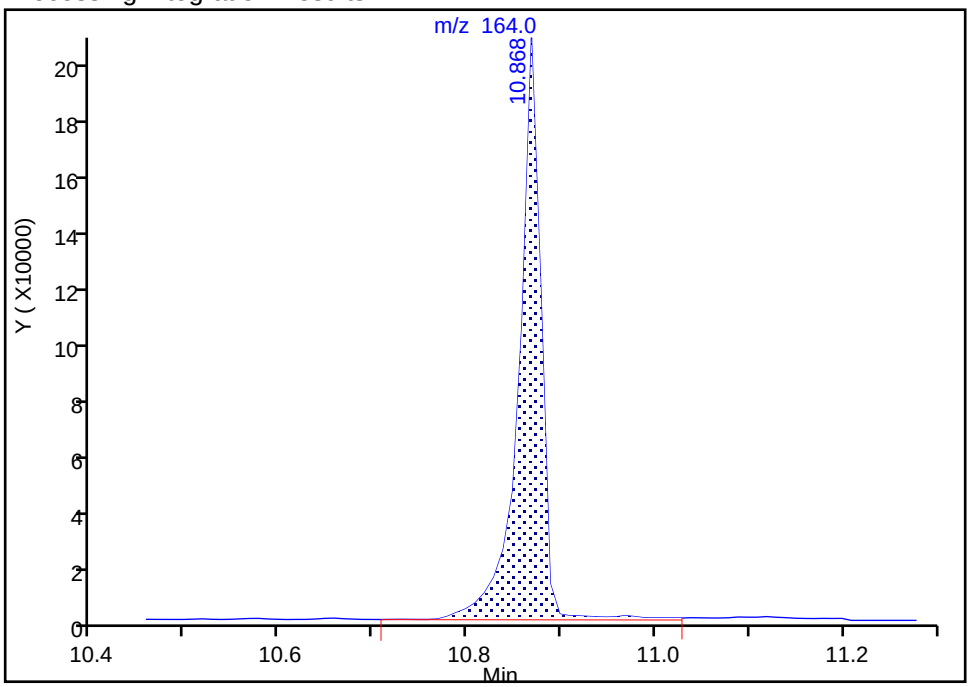
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Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20
Client ID:	DUP-20210624		
Operator ID:	jmg00346	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

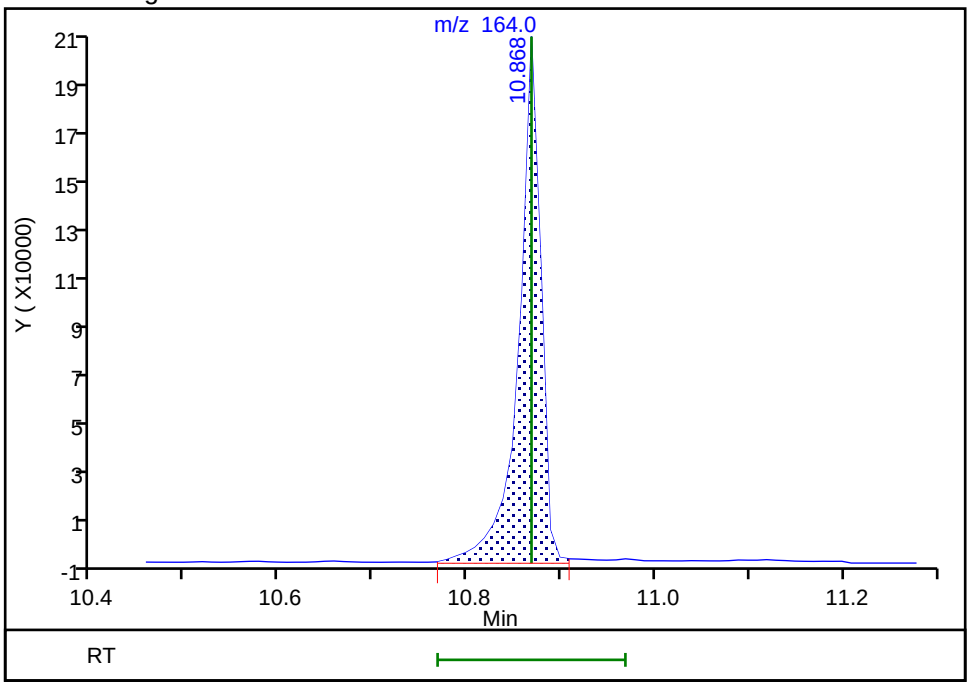
Processing Integration Results

RT: 10.87
Area: 334214
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.87
Area: 328772
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:52:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

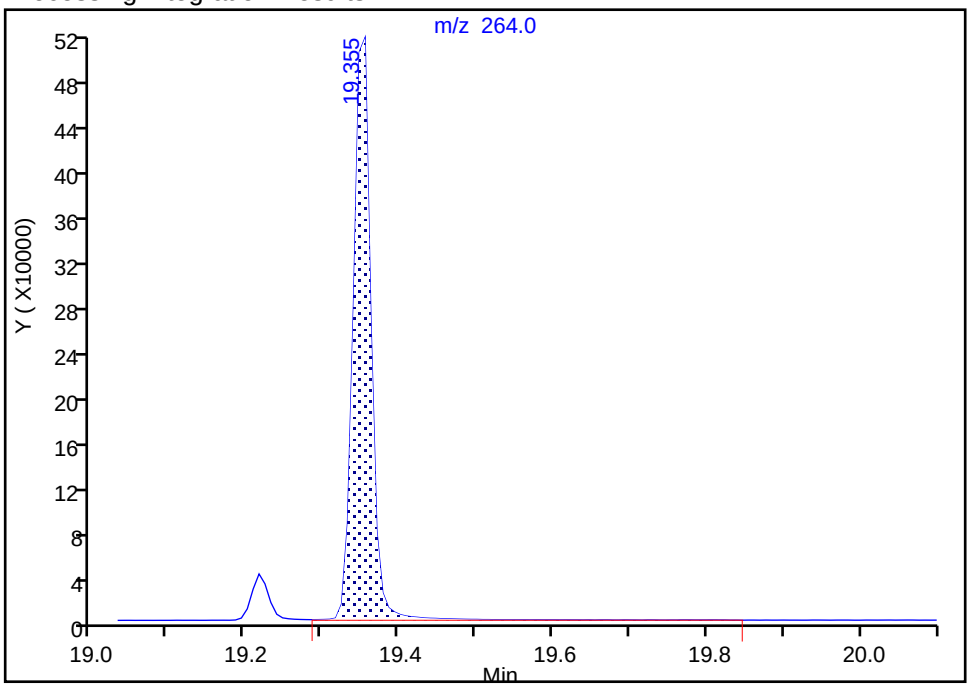
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Injection Date:	06-Jul-2021 13:28:30	Instrument ID:	HP23263		
Lims ID:	410-45105-A-20-A DL	Lab Sample ID:	410-45105-20		
Client ID:	DUP-20210624				
Operator ID:	jmg00346	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

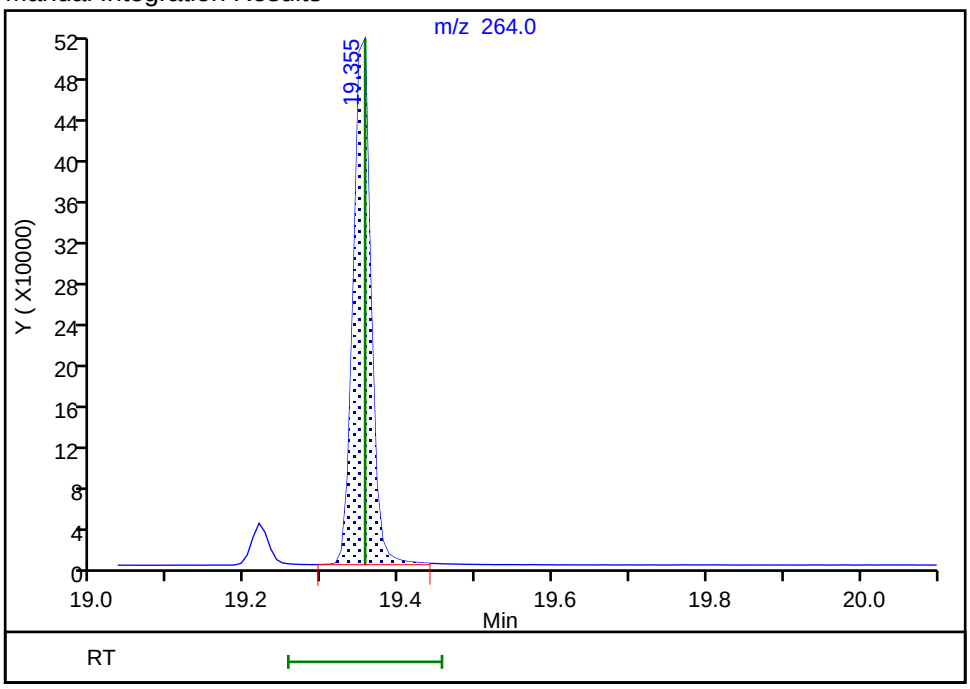
Processing Integration Results

RT: 19.36
Area: 834827
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 19.36
Area: 821428
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 06-Jul-2021 19:55:26

Audit Action: Manually Integrated Audit Reason: Baseline

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 133561

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2021 09:18 Calibration End Date: 06/03/2021 11:51 Calibration ID: 26007

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-133561/7	MF0166.D
Level 2	IC 410-133561/6	MF0165.D
Level 3	IC 410-133561/5	MF0164.D
Level 4	ICIS 410-133561/2	MF0161.D
Level 5	IC 410-133561/4	MF0163.D
Level 6	IC 410-133561/3	MF0162.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6531 0.6518	0.6232	0.6300	0.6662	0.6625	Ave		0.6478				2.7		20.4			
N-Nitrosodimethylamine	0.5092 0.7181	0.5543	0.5835	0.6870	0.7156	Ave		0.6279				14.4		20.4			
Bis(2-chloroethyl)ether	0.3373 0.3535	0.3333	0.3336	0.3564	0.3625	Ave		0.3461				3.7		20.4			
Naphthalene	1.0984 1.0121	1.0361	0.9735	1.0054	1.0210	Ave		1.0244				4.1		20.4			
Quinoline	0.5258 0.6099	0.5429	0.5353	0.5877	0.6162	Ave		0.5696				7.0		20.4			
2-Methylnaphthalene	0.7682 0.7691	0.7897	0.7381	0.7565	0.7851	Ave		0.7678				2.5		20.4			
1-Methylnaphthalene	0.7250 0.7200	0.7327	0.6949	0.7137	0.7339	Ave		0.7200				2.0		20.4			
Dimethylphthalate	1.1226 1.2675	1.0453	1.1079	1.1791	1.3312	Ave		1.1756				9.1		20.4			
Acenaphthylene	1.6703 1.7712	1.6140	1.6164	1.6688	1.8202	Ave		1.6935				5.0		20.4			
Acenaphthene	1.1804 1.0838	1.0699	1.0455	1.0610	1.1216	Ave		1.0937				4.5		20.4			
Dibenzofuran	1.8073 1.6722	1.6314	1.6040	1.6243	1.7378	Ave		1.6795				4.7		20.4			
Diethylphthalate	0.9117 1.1512	0.8584	0.9180	1.0115	1.1557	Ave		1.0011				12.8		20.4			
Fluorene	1.3820 1.4493	1.3471	1.3577	1.4079	1.4781	Ave		1.4037				3.7		20.4			
N-Nitrosodiphenylamine	0.3798 0.4124	0.3824	0.4027	0.4169	0.4355	Ave		0.4049				5.3		20.4			

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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 133561

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2021 09:18 Calibration End Date: 06/03/2021 11:51 Calibration ID: 26007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.2635 0.2412	0.2490	0.2420	0.2451	0.2482	Ave		0.2482				3.3		20.4			
Phenanthrene	1.1374 1.0554	1.0336	1.0225	1.0486	1.0816	Ave		1.0632				3.9		20.4			
Anthracene	0.9434 1.0178	0.9446	0.9418	0.9971	1.0463	Ave		0.9818				4.6		20.4			
Di-n-butyl phthalate	0.7078 0.9594	0.6795	0.7272	0.8478	0.9712	Ave		0.8155				15.9		20.4			
Fluoranthene	1.5552 1.4153	1.3124	1.3045	1.3653	1.4212	Ave		1.3957				6.6		20.4			
Pyrene	1.2519 1.2500	1.1979	1.2042	1.2465	1.2768	Ave		1.2379				2.5		20.4			
Butylbenzylphthalate	0.2882 0.3960	0.2736	0.2985	0.3527	0.3976	Ave		0.3344				16.5		20.4			
Benzo[a]anthracene	1.4239 1.3339	1.2102	1.2132	1.2626	1.3357	Ave		1.2966				6.4		20.4			
Chrysene	1.4227 1.3227	1.3660	1.3526	1.3607	1.3770	Ave		1.3669				2.4		20.4			
Bis(2-ethylhexyl) phthalate	0.4280 0.6014	0.4045	0.4430	0.5319	0.5991	Ave		0.5013				17.5		20.4			
Di-n-octyl phthalate	0.6493 0.8273	0.6132	0.6686	0.7815	0.8594	Ave		0.7332				14.0		20.4			
Benzo[b]fluoranthene	1.1274 1.1852	1.1181	1.1534	1.1976	1.2030	Ave		1.1641				3.1		20.4			
Benzo[k]fluoranthene	1.2756 1.1839	1.2282	1.2609	1.3089	1.3158	Ave		1.2622				4.0		20.4			
Benzo[e]pyrene	1.1727 1.1299	1.1503	1.1576	1.1927	1.1977	Ave		1.1668				2.2		20.4			
Benzo[a]pyrene	1.0588 1.1245	1.0968	1.1237	1.1656	1.1766	Ave		1.1243				3.9		20.4			
Perylene	1.2449 1.1393	1.2254	1.2242	1.1981	1.2129	Ave		1.2075				3.0		20.4			
Indeno[1,2,3-cd]pyrene	1.0233 1.0438	1.0866	1.0398	1.0711	1.0714	Ave		1.0560				2.3		20.4			
Dibenz(a,h)anthracene	1.1367 1.1817	1.1633	1.1738	1.2282	1.2375	Ave		1.1869				3.3		20.4			

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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 133561

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2021 09:18 Calibration End Date: 06/03/2021 11:51 Calibration ID: 26007

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.2749 1.2067	1.2267	1.2444	1.2833	1.2819	Ave		1.2530				2.6		20.4			
1-Methylnaphthalene-d10 (Surr)	0.6725 0.6450	0.6500	0.6197	0.6483	0.6644	Ave		0.6500				2.8		20.4			
Fluoranthene-d10 (Surr)	1.0839 1.2680	1.0940	1.1117	1.1977	1.2637	Ave		1.1698				7.2		20.4			
Benzo(a)pyrene-d12 (Surr)	0.9383 0.9601	0.9065	0.9356	0.9917	1.0033	Ave		0.9559				3.8		20.4			

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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 133561

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2021 09:18 Calibration End Date: 06/03/2021 11:51 Calibration ID: 26007

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-133561/7	MF0166.D
Level 2	IC 410-133561/6	MF0165.D
Level 3	IC 410-133561/5	MF0164.D
Level 4	ICIS 410-133561/2	MF0161.D
Level 5	IC 410-133561/4	MF0163.D
Level 6	IC 410-133561/3	MF0162.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	304 83162	1483	3306	18645	35946	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	237 91627	1319	3062	19229	38827	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	476 146934	2428	5545	31372	63789	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	1550 420670	7548	16182	88504	179652	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	742 253517	3955	8898	51737	108419	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	1084 319670	5753	12269	66595	138148	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	1023 299255	5338	11550	62826	129137	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	29102 1469658	54155	128545	366004	809936	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	1732 513415	8362	18755	103608	221496	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	1224 314154	5543	12131	65872	136488	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	1874 484732	8452	18611	100840	211473	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	23634 1334760	44472	106517	313987	703167	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	1433	6979	15753	87411	179867	0.0100	0.0500	0.100	0.500	1.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 133561

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2021 09:18 Calibration End Date: 06/03/2021 11:51 Calibration ID: 26007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			420114					2.50				
N-Nitrosodiphenylamine	PHN	Ave	830 263264	4210	9942	54081	113875	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	576 153968	2741	5975	31791	64903	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	2486 673710	11378	25244	136040	282833	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	2062 649715	10399	23250	129356	273598	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	38672 2449582	74799	179537	549928	1269890	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	3399 903414	14448	32205	177128	371656	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	2961 959072	14424	32630	183610	388794	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	17043 1215197	32945	80873	259768	605322	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	3368 1023472	14572	32874	185992	406729	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	3365 1014869	16447	36651	200436	419294	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	25307 1845809	48706	120036	391748	912172	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	43353 3211467	83856	206604	677168	1579252	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	3011 1150136	15290	35643	207540	442107	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	3407 1148936	16796	38964	226837	483570	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	3132 1096520	15730	35773	206693	440175	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	2828 1091262	14999	34725	202002	432436	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	3325 1105611	16758	37830	207629	445745	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	2733	14859	32134	185619	393746	0.0100	0.0500	0.100	0.500	1.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 133561

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/03/2021 09:18 Calibration End Date: 06/03/2021 11:51 Calibration ID: 26007

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			1012956					2.50				
Dibenz(a,h)anthracene	PRY	Ave	3036 1146751	15909	36273	212843	454784	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	3405 1171072	16775	38454	222403	471108	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	949 268097	4735	10301	57071	116914	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	2369 809386	12043	27446	155377	330452	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	2506 931731	12397	28914	171869	368719	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0161.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 03-Jun-2021 09:18:17 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0030970-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:30:00 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 03-Jun-2021 15:22:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.133	3.133	0.000	83	18645	0.5000	0.5142	
2 N-Nitrosodimethylamine	74	3.526	3.526	0.000	79	19229	0.5000	0.5471	
3 Bis(2-chloroethyl)ether	93	6.479	6.479	0.000	87	31372	0.5000	0.5148	
* 4 1,4-Dichlorobenzene-d4	152	6.850	6.850	0.000	92	13994	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	91	44016	0.2500	0.2500	
6 Naphthalene	128	8.787	8.787	0.000	93	88504	0.5000	0.4907	
7 Quinoline	129	9.323	9.323	0.000	99	51737	0.5000	0.5159	
8 2-Methylnaphthalene	142	9.874	9.874	0.000	97	66595	0.5000	0.4926	
$ 9 1-Methylnaphthalene-d10	152	9.971	9.971	0.000	100	57071	0.5000	0.4987	
10 1-Methylnaphthalene	142	10.032	10.032	0.000	96	62826	0.5000	0.4956	
11 Dimethyl phthalate	163	11.170	11.170	0.000	89	366004	2.50	2.51	
12 Acenaphthylene	152	11.304	11.304	0.000	100	103608	0.5000	0.4927	
* 13 Acenaphthene-d10	164	11.524	11.524	0.000	94	31042	0.2500	0.2500	
14 Acenaphthene	154	11.561	11.561	0.000	93	65872	0.5000	0.4851	
15 Dibenzofuran	168	11.801	11.801	0.000	99	100840	0.5000	0.4836	
16 Diethyl phthalate	149	12.144	12.144	0.000	97	313987	2.50	2.53	
17 Fluorene	166	12.238	12.238	0.000	95	87411	0.5000	0.5015	
18 N-Nitrosodiphenylamine	169	12.402	12.402	0.000	100	54081	0.5000	0.5147	
19 Hexachlorobenzene	284	12.909	12.909	0.000	91	31791	0.5000	0.4937	
* 20 Phenanthrene-d10	188	13.409	13.409	0.000	98	64866	0.2500	0.2500	
21 Phenanthrene	178	13.440	13.440	0.000	100	136040	0.5000	0.4932	
22 Anthracene	178	13.502	13.502	0.000	100	129356	0.5000	0.5078	
23 Di-n-butyl phthalate	149	14.225	14.225	0.000	100	549928	2.50	2.60	
$ 24 Fluoranthene-d10 (Surr)	212	15.078	15.078	0.000	97	155377	0.5000	0.5119	
25 Fluoranthene	202	15.109	15.109	0.000	100	177128	0.5000	0.4891	
26 Pyrene	202	15.454	15.454	0.000	97	183610	0.5000	0.5035	
27 Butyl benzyl phthalate	149	16.584	16.584	0.000	100	259768	2.50	2.64	
28 Benzo[a]anthracene	228	17.481	17.481	0.000	100	185992	0.5000	0.4869	
* 29 Chrysene-d12	240	17.496	17.496	0.000	76	73652	0.2500	0.2500	
30 Chrysene	228	17.542	17.542	0.000	100	200436	0.5000	0.4977	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.642	17.642	0.000	97	391748	2.50	2.65	
32 Di-n-octyl phthalate	149	18.808	18.808	0.000	100	677168	2.50	2.66	
33 Benzo[b]fluoranthene	252	19.345	19.345	0.000	100	207540	0.5000	0.5144	
34 Benzo[k]fluoranthene	252	19.391	19.391	0.000	100	226837	0.5000	0.5185	
35 Benzo[e]pyrene	252	19.797	19.797	0.000	100	206693	0.5000	0.5111	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.843	19.843	0.000	98	171869	0.5000	0.5187	
37 Benzo[a]pyrene	252	19.874	19.874	0.000	100	202002	0.5000	0.5183	
* 38 Perylene-d12	264	19.974	19.974	0.000	98	86651	0.2500	0.2500	
39 Perylene	252	20.012	20.012	0.000	100	207629	0.5000	0.4961	
40 Indeno[1,2,3-cd]pyrene	276	21.642	21.642	0.000	99	185619	0.5000	0.5071	M
41 Dibenz(a,h)anthracene	278	21.692	21.692	0.000	95	212843	0.5000	0.5174	
42 Benzo[g,h,i]perylene	276	22.094	22.094	0.000	95	222403	0.5000	0.5121	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

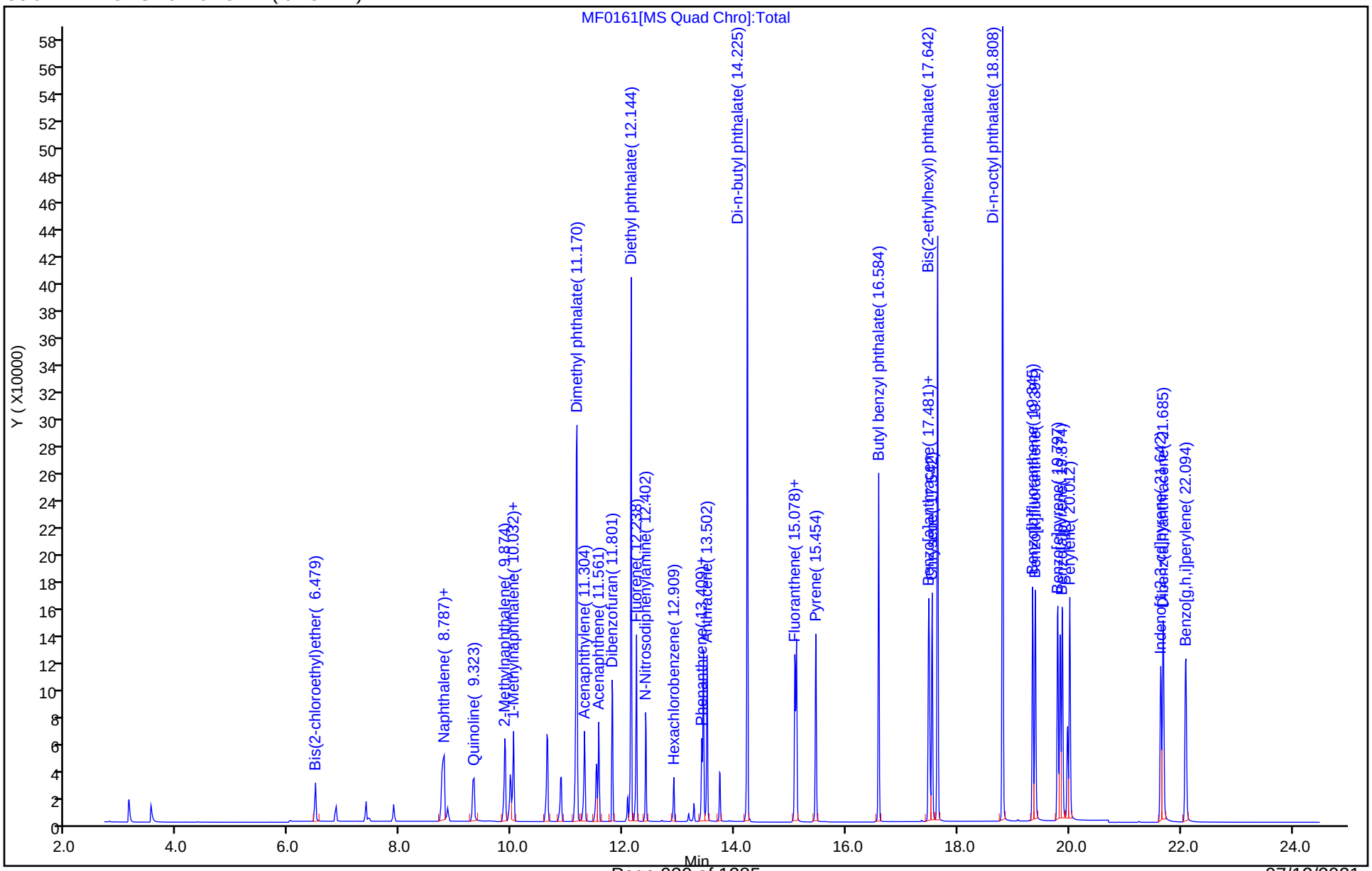
Report Date: 03-Jun-2021 18:30:01 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0161.D

Injection Date:	03-Jun-2021 09:18:17	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICIS L4			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

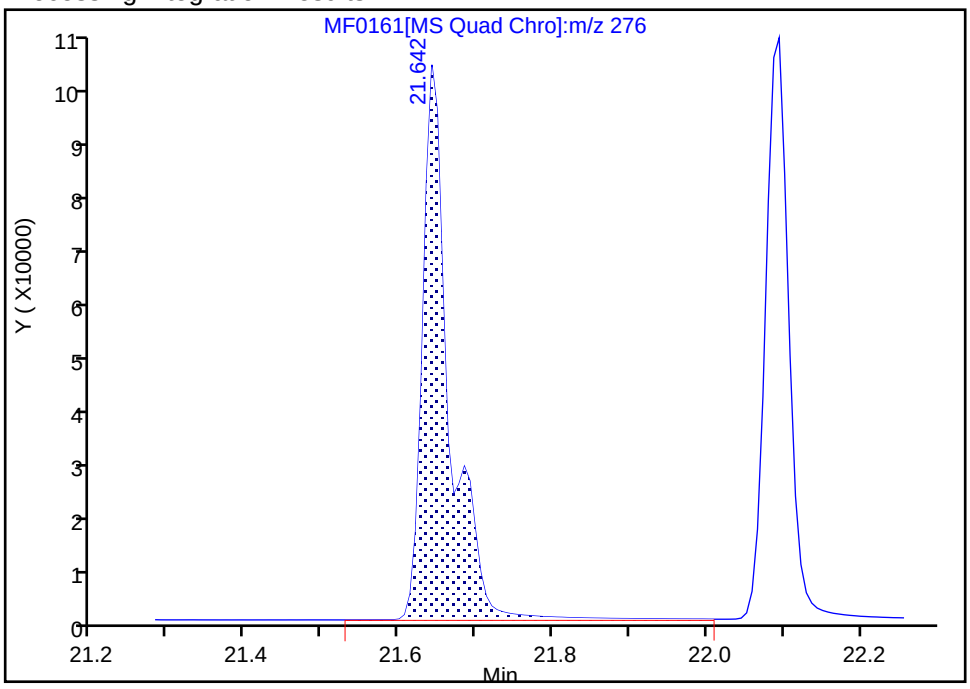
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Injection Date:	03-Jun-2021 09:18:17	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

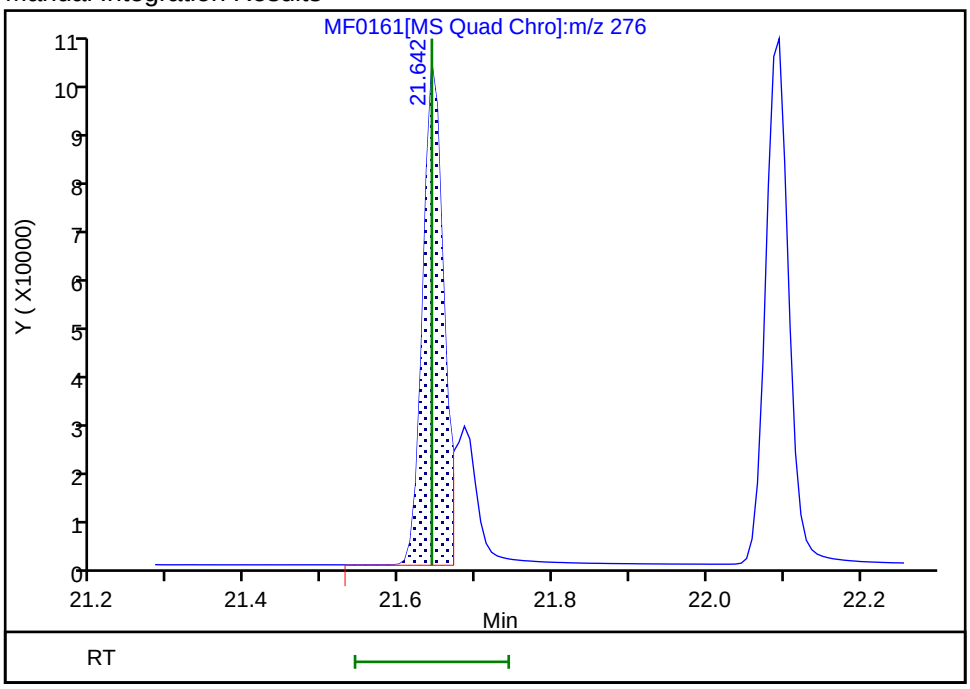
Processing Integration Results

RT: 21.64
Area: 245442
Amount: 0.484630
Amount Units: ug/ml



Manual Integration Results

RT: 21.64
Area: 185619
Amount: 0.507143
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:21:46

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0162.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 03-Jun-2021 09:48:46 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0030970-003
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:30:03 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 03-Jun-2021 18:22:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.125	3.133	-0.008	83	83162	2.50	2.52	
2 N-Nitrosodimethylamine	74	3.511	3.526	-0.015	79	91627	2.50	2.86	
3 Bis(2-chloroethyl)ether	93	6.479	6.479	0.000	88	146934	2.50	2.55	
* 4 1,4-Dichlorobenzene-d4	152	6.850	6.850	0.000	96	12759	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	91	41564	0.2500	0.2500	
6 Naphthalene	128	8.787	8.787	0.000	93	420670	2.50	2.47	
7 Quinoline	129	9.302	9.323	-0.021	99	253517	2.50	2.68	
8 2-Methylnaphthalene	142	9.874	9.874	0.000	98	319670	2.50	2.50	
$ 9 1-Methylnaphthalene-d10	152	9.971	9.971	0.000	100	268097	2.50	2.48	
10 1-Methylnaphthalene	142	10.032	10.032	0.000	96	299255	2.50	2.50	
11 Dimethyl phthalate	163	11.169	11.170	-0.001	93	1469658	10.0	10.8	
12 Acenaphthylene	152	11.304	11.304	0.000	100	513415	2.50	2.61	
* 13 Acenaphthene-d10	164	11.524	11.524	0.000	95	28987	0.2500	0.2500	
14 Acenaphthene	154	11.561	11.561	0.000	93	314154	2.50	2.48	
15 Dibenzofuran	168	11.801	11.801	0.000	99	484732	2.50	2.49	
16 Diethyl phthalate	149	12.144	12.144	0.000	98	1334760	10.0	11.5	
17 Fluorene	166	12.238	12.238	0.000	95	420114	2.50	2.58	
18 N-Nitrosodiphenylamine	169	12.402	12.402	0.000	99	263264	2.50	2.55	
19 Hexachlorobenzene	284	12.909	12.909	0.000	91	153968	2.50	2.43	
* 20 Phenanthrene-d10	188	13.409	13.409	0.000	96	63834	0.2500	0.2500	
21 Phenanthrene	178	13.440	13.440	0.000	100	673710	2.50	2.48	
22 Anthracene	178	13.502	13.502	0.000	100	649715	2.50	2.59	
23 Di-n-butyl phthalate	149	14.232	14.225	0.007	100	2449582	10.0	11.8	
$ 24 Fluoranthene-d10 (Surr)	212	15.078	15.078	0.000	97	809386	2.50	2.71	
25 Fluoranthene	202	15.109	15.109	0.000	99	903414	2.50	2.54	
26 Pyrene	202	15.454	15.454	0.000	97	959072	2.50	2.52	
27 Butyl benzyl phthalate	149	16.591	16.584	0.007	100	1215197	10.0	11.8	
28 Benzo[a]anthracene	228	17.481	17.481	0.000	100	1023472	2.50	2.57	
* 29 Chrysene-d12	240	17.496	17.496	0.000	64	76726	0.2500	0.2500	
30 Chrysene	228	17.542	17.542	0.000	100	1014869	2.50	2.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.642	17.642	0.000	100	1845809	10.0	12.0	
32 Di-n-octyl phthalate	149	18.816	18.808	0.008	100	3211467	10.0	11.3	
33 Benzo[b]fluoranthene	252	19.352	19.345	0.007	100	1150136	2.50	2.55	
34 Benzo[k]fluoranthene	252	19.398	19.391	0.007	100	1148936	2.50	2.34	
35 Benzo[e]pyrene	252	19.797	19.797	0.000	100	1096520	2.50	2.42	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.851	19.843	0.008	98	931731	2.50	2.51	
37 Benzo[a]pyrene	252	19.882	19.874	0.008	100	1091262	2.50	2.50	
* 38 Perylene-d12	264	19.974	19.974	0.000	98	97045	0.2500	0.2500	
39 Perylene	252	20.020	20.012	0.008	100	1105611	2.50	2.36	
40 Indeno[1,2,3-cd]pyrene	276	21.649	21.642	0.007	99	1012956	2.50	2.47	M
41 Dibenz(a,h)anthracene	278	21.699	21.692	0.007	95	1146751	2.50	2.49	
42 Benzo[g,h,i]perylene	276	22.101	22.094	0.007	96	1171072	2.50	2.41	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00010 Amount Added: 1.00 Units: mL

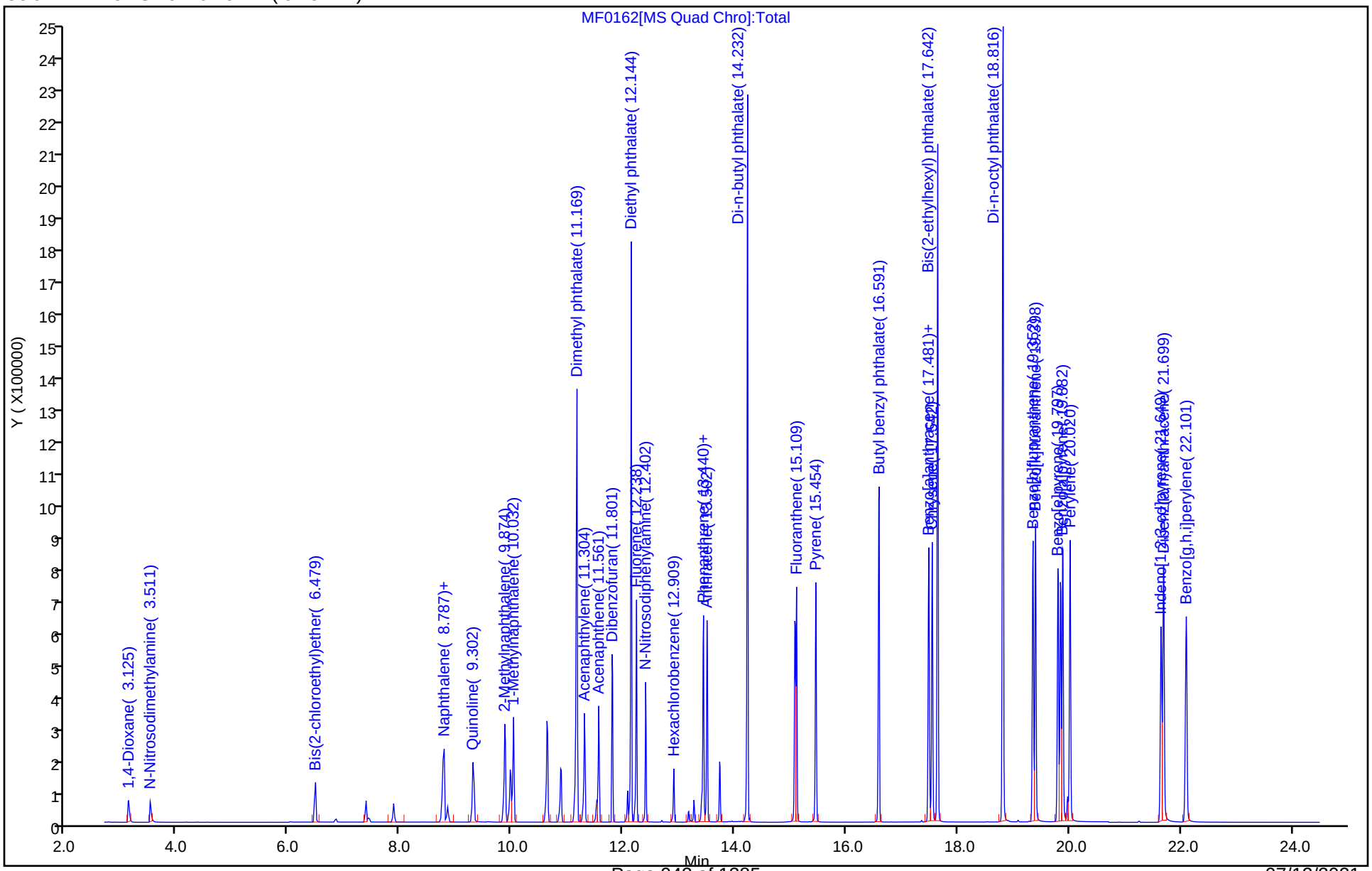
Report Date: 03-Jun-2021 18:30:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0162.D

Injection Date:	03-Jun-2021 09:48:46	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L6			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

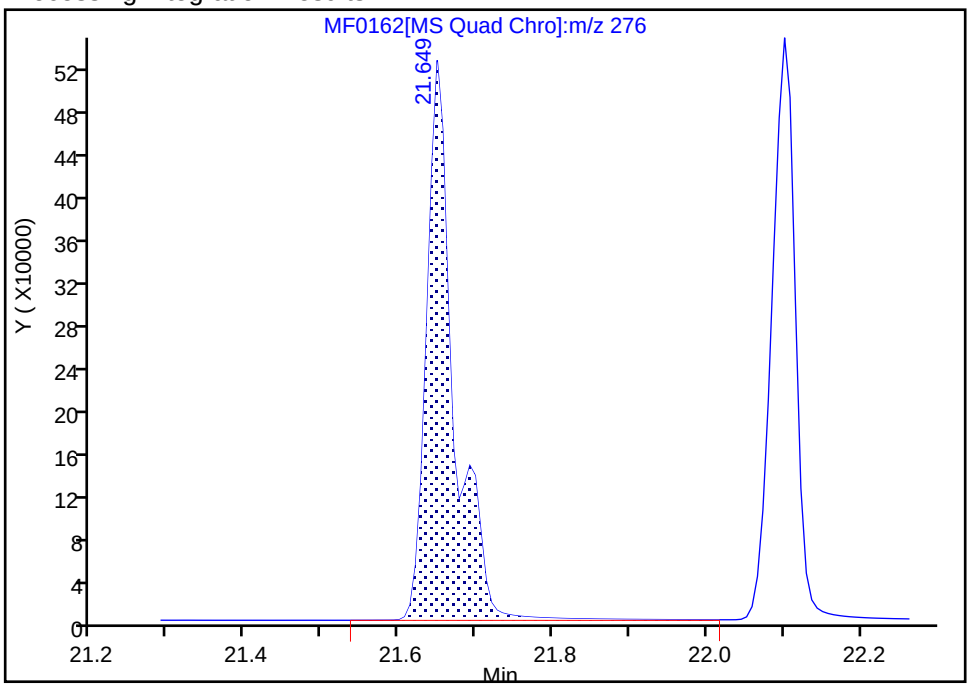
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Injection Date:	03-Jun-2021 09:48:46	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

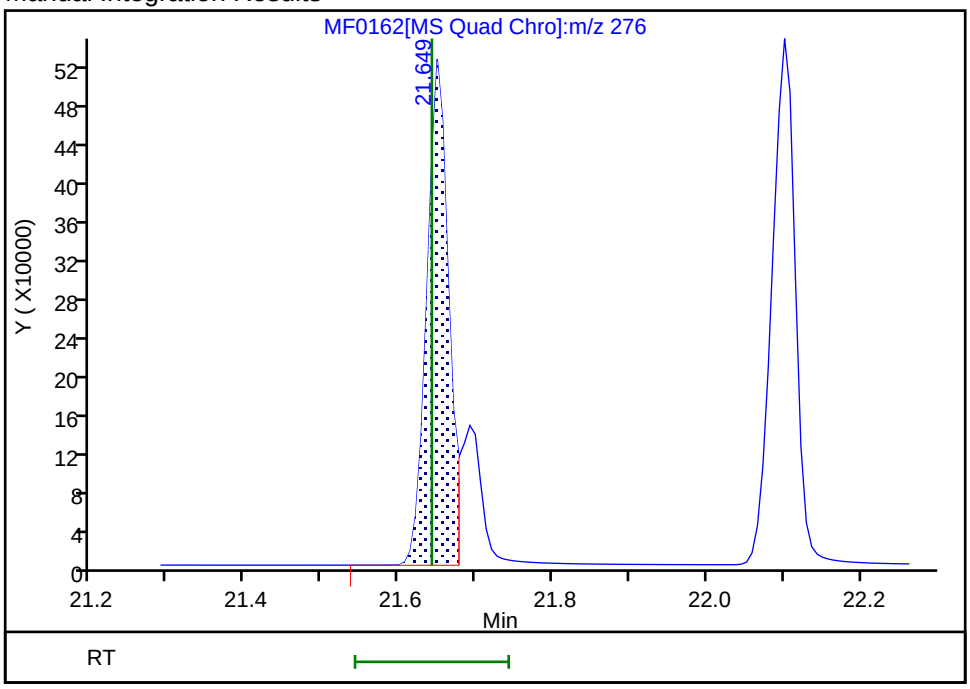
Processing Integration Results

RT: 21.65
Area: 1299814
Amount: 2.529786
Amount Units: ug/ml



Manual Integration Results

RT: 21.65
Area: 1012956
Amount: 2.471148
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:22:15

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0163.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 03-Jun-2021 10:19:25 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0030970-004
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:31:19 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 03-Jun-2021 18:31:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.132	3.155	-0.023	83	35946	1.00	1.02	
2 N-Nitrosodimethylamine	74	3.526	3.615	-0.089	78	38827	1.00	1.14	
3 Bis(2-chloroethyl)ether	93	6.478	6.479	-0.001	90	63789	1.00	1.05	
* 4 1,4-Dichlorobenzene-d4	152	6.849	6.850	-0.001	92	13565	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	92	43990	0.2500	0.2500	
6 Naphthalene	128	8.787	8.787	0.000	93	179652	1.00	1.00	
7 Quinoline	129	9.323	9.344	-0.021	99	108419	1.00	1.08	
8 2-Methylnaphthalene	142	9.873	9.886	-0.013	98	138148	1.00	1.02	
$ 9 1-Methylnaphthalene-d10	152	9.971	9.983	-0.012	100	116914	1.00	1.02	
10 1-Methylnaphthalene	142	10.032	10.032	0.000	96	129137	1.00	1.02	
11 Dimethyl phthalate	163	11.169	11.169	0.000	91	809936	5.00	5.66	
12 Acenaphthylene	152	11.304	11.304	0.000	99	221496	1.00	1.07	
* 13 Acenaphthene-d10	164	11.524	11.524	0.000	96	30422	0.2500	0.2500	
14 Acenaphthene	154	11.560	11.561	-0.001	92	136488	1.00	1.03	
15 Dibenzofuran	168	11.800	11.809	-0.008	98	211473	1.00	1.03	
16 Diethyl phthalate	149	12.144	12.144	0.000	97	703167	5.00	5.77	
17 Fluorene	166	12.238	12.238	0.000	95	179867	1.00	1.05	
18 N-Nitrosodiphenylamine	169	12.401	12.410	-0.009	99	113875	1.00	1.08	
19 Hexachlorobenzene	284	12.909	12.909	0.000	92	64903	1.00	1.00	
* 20 Phenanthrene-d10	188	13.408	13.409	-0.001	99	65375	0.2500	0.2500	
21 Phenanthrene	178	13.440	13.440	0.000	100	282833	1.00	1.02	
22 Anthracene	178	13.502	13.510	-0.008	100	273598	1.00	1.07	
23 Di-n-butyl phthalate	149	14.225	14.225	0.000	100	1269890	5.00	5.96	
$ 24 Fluoranthene-d10 (Surr)	212	15.077	15.084	-0.007	97	330452	1.00	1.08	
25 Fluoranthene	202	15.109	15.109	0.000	100	371656	1.00	1.02	
26 Pyrene	202	15.454	15.460	-0.006	97	388794	1.00	1.03	
27 Butyl benzyl phthalate	149	16.583	16.576	0.007	100	605322	5.00	5.94	
28 Benzo[a]anthracene	228	17.481	17.473	0.008	100	406729	1.00	1.03	
* 29 Chrysene-d12	240	17.496	17.496	0.000	67	76127	0.2500	0.2500	
30 Chrysene	228	17.542	17.542	0.000	100	419294	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.642	17.634	0.008	97	912172	5.00	5.98	
32 Di-n-octyl phthalate	149	18.808	18.800	0.008	100	1579252	5.00	5.86	
33 Benzo[b]fluoranthene	252	19.344	19.345	-0.001	100	442107	1.00	1.03	
34 Benzo[k]fluoranthene	252	19.390	19.391	-0.001	100	483570	1.00	1.04	
35 Benzo[e]pyrene	252	19.797	19.789	0.008	100	440175	1.00	1.03	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.843	19.835	0.008	98	368719	1.00	1.05	
37 Benzo[a]pyrene	252	19.881	19.874	0.007	100	432436	1.00	1.05	
* 38 Perylene-d12	264	19.973	19.966	0.007	98	91879	0.2500	0.2500	
39 Perylene	252	20.012	20.012	0.000	100	445745	1.00	1.00	
40 Indeno[1,2,3-cd]pyrene	276	21.642	21.649	-0.007	99	393746	1.00	1.01	M
41 Dibenz(a,h)anthracene	278	21.691	21.692	-0.001	95	454784	1.00	1.04	
42 Benzo[g,h,i]perylene	276	22.094	22.094	0.000	96	471108	1.00	1.02	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00012 Amount Added: 1.00 Units: mL

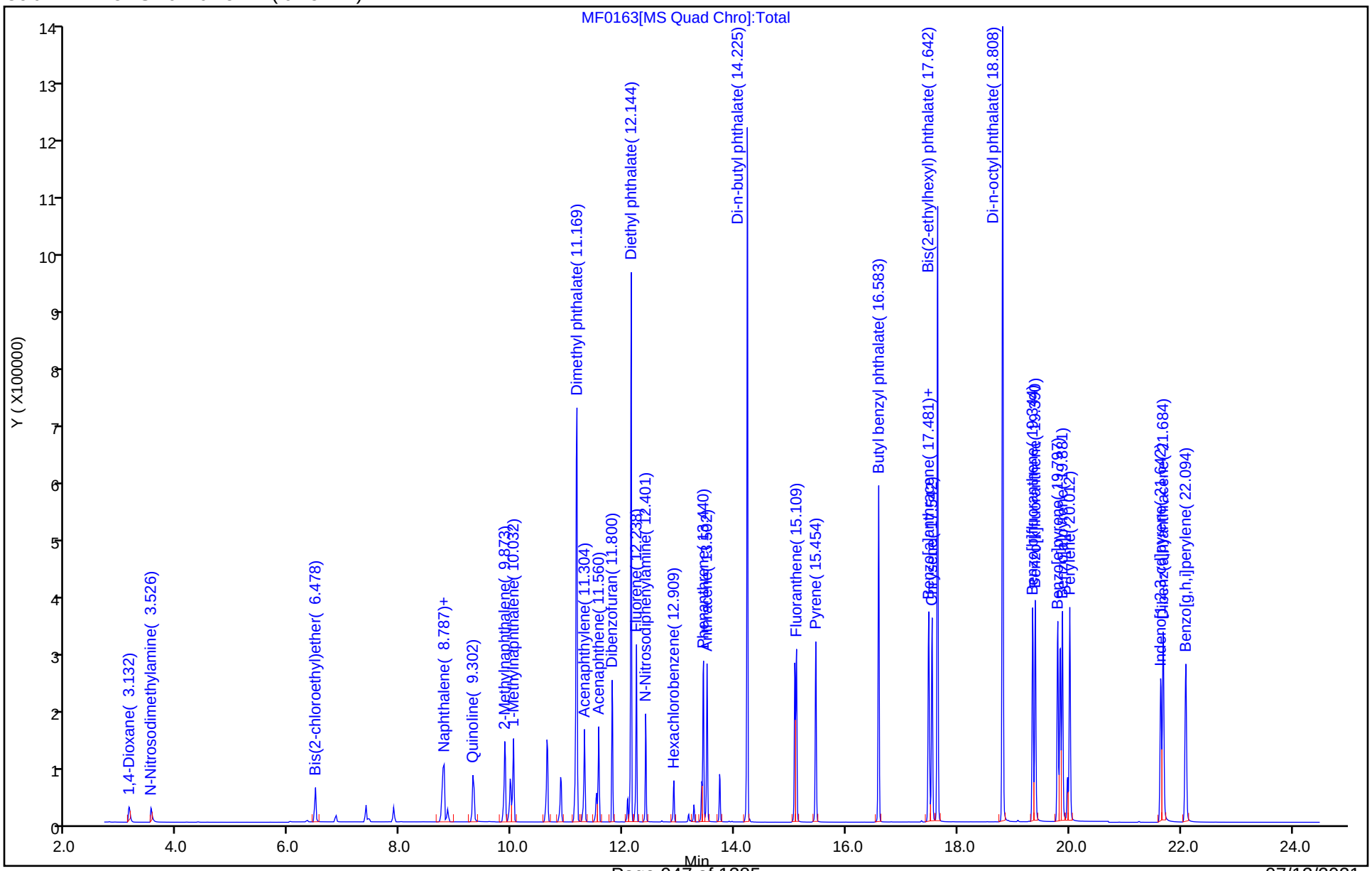
Report Date: 03-Jun-2021 18:31:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0163.D

Injection Date:	03-Jun-2021 10:19:25	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

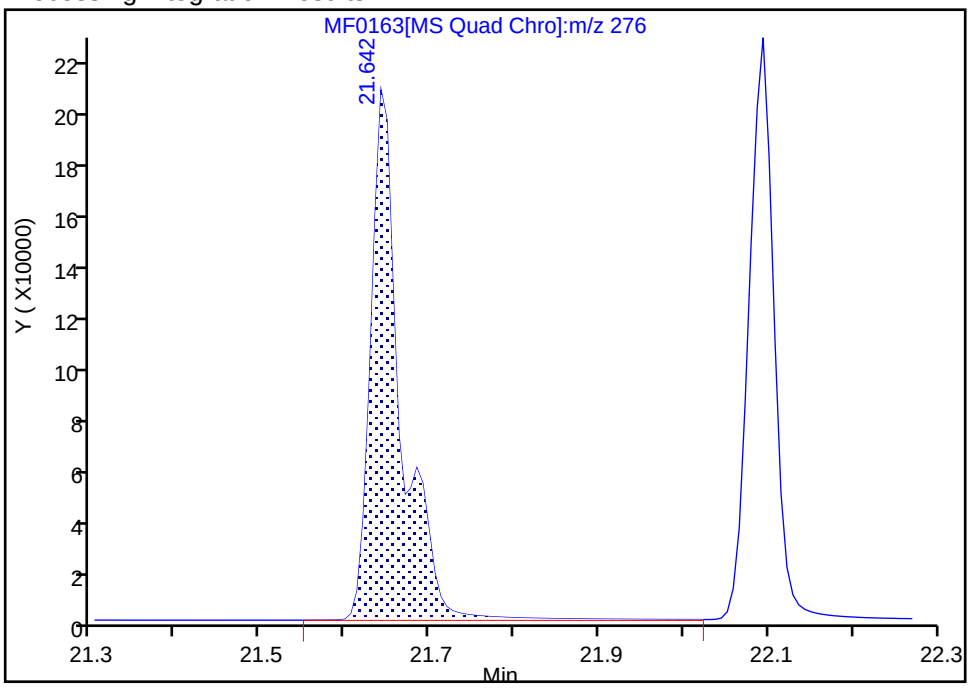
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Injection Date:	03-Jun-2021 10:19:25	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

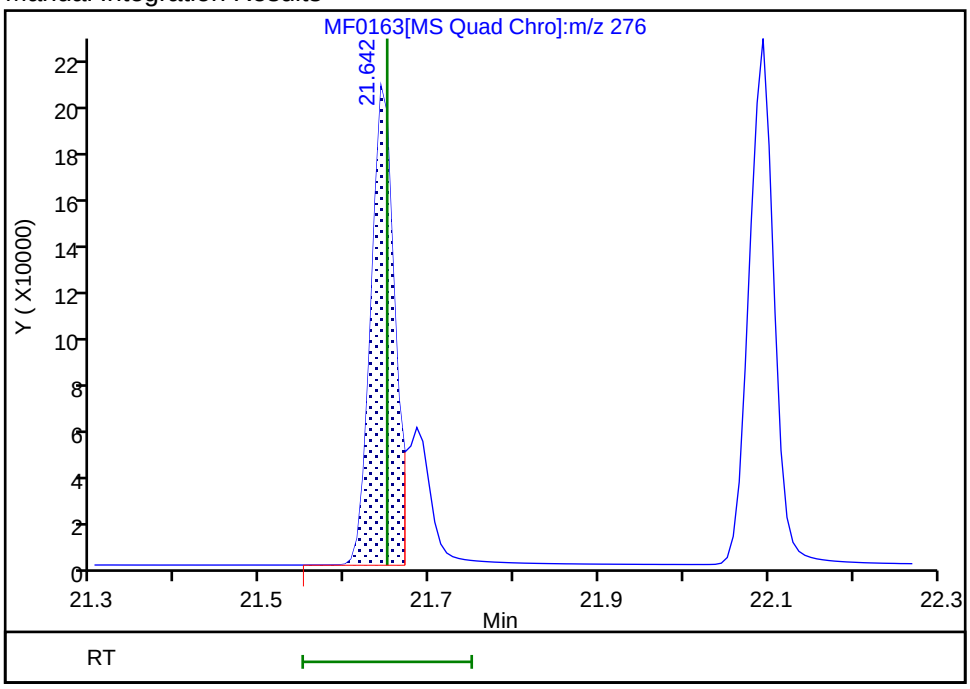
Processing Integration Results

RT: 21.64
Area: 518435
Amount: 1.041539
Amount Units: ug/ml



Manual Integration Results

RT: 21.64
Area: 393746
Amount: 1.014568
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:22:41

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0164.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 03-Jun-2021 10:49:59 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0030970-005
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:30:05 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 03-Jun-2021 18:23:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.140	3.133	0.007	83	3306	0.1000	0.0972	
2 N-Nitrosodimethylamine	74	3.563	3.526	0.037	78	3062	0.1000	0.0929	
3 Bis(2-chloroethyl)ether	93	6.479	6.479	0.000	93	5545	0.1000	0.0964	
* 4 1,4-Dichlorobenzene-d4	152	6.850	6.850	0.000	95	13120	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	91	41555	0.2500	0.2500	
6 Naphthalene	128	8.787	8.787	0.000	93	16182	0.1000	0.0950	
7 Quinoline	129	9.323	9.323	0.000	99	8898	0.1000	0.0940	
8 2-Methylnaphthalene	142	9.874	9.874	0.000	96	12269	0.1000	0.0961	
$ 9 1-Methylnaphthalene-d10	152	9.971	9.971	0.000	99	10301	0.1000	0.0953	
10 1-Methylnaphthalene	142	10.033	10.032	0.001	96	11550	0.1000	0.0965	
11 Dimethyl phthalate	163	11.170	11.170	0.000	87	128545	1.00	0.9424	
12 Acenaphthylene	152	11.304	11.304	0.000	100	18755	0.1000	0.0954	
* 13 Acenaphthene-d10	164	11.524	11.524	0.000	94	29007	0.2500	0.2500	
14 Acenaphthene	154	11.561	11.561	0.000	92	12131	0.1000	0.0956	
15 Dibenzofuran	168	11.801	11.801	0.000	99	18611	0.1000	0.0955	
16 Diethyl phthalate	149	12.137	12.144	-0.007	99	106517	1.00	0.9170	
17 Fluorene	166	12.238	12.238	0.000	98	15753	0.1000	0.0967	
18 N-Nitrosodiphenylamine	169	12.410	12.402	0.008	99	9942	0.1000	0.0994	
19 Hexachlorobenzene	284	12.909	12.909	0.000	91	5975	0.1000	0.0975	
* 20 Phenanthrene-d10	188	13.409	13.409	0.000	96	61720	0.2500	0.2500	
21 Phenanthrene	178	13.440	13.440	0.000	100	25244	0.1000	0.0962	
22 Anthracene	178	13.502	13.502	0.000	100	23250	0.1000	0.0959	
23 Di-n-butyl phthalate	149	14.225	14.225	0.000	100	179537	1.00	0.8918	
$ 24 Fluoranthene-d10 (Surr)	212	15.078	15.078	0.000	97	27446	0.1000	0.0950	
25 Fluoranthene	202	15.109	15.109	0.000	99	32205	0.1000	0.0935	
26 Pyrene	202	15.454	15.454	0.000	97	32630	0.1000	0.0973	
27 Butyl benzyl phthalate	149	16.576	16.584	-0.008	100	80873	1.00	0.8925	
28 Benzo[a]anthracene	228	17.473	17.481	-0.008	100	32874	0.1000	0.0936	
* 29 Chrysene-d12	240	17.496	17.496	0.000	68	67741	0.2500	0.2500	
30 Chrysene	228	17.535	17.542	-0.007	100	36651	0.1000	0.0990	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.634	17.642	-0.008	98	120036	1.00	0.8837	
32 Di-n-octyl phthalate	149	18.800	18.808	-0.008	100	206604	1.00	0.9118	
33 Benzo[b]fluoranthene	252	19.345	19.345	0.000	100	35643	0.1000	0.0991	
34 Benzo[k]fluoranthene	252	19.391	19.391	0.000	100	38964	0.1000	0.0999	
35 Benzo[e]pyrene	252	19.790	19.797	-0.007	100	35773	0.1000	0.0992	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.836	19.843	-0.007	99	28914	0.1000	0.0979	
37 Benzo[a]pyrene	252	19.874	19.874	0.000	100	34725	0.1000	0.0999	
* 38 Perylene-d12	264	19.966	19.974	-0.008	98	77257	0.2500	0.2500	
39 Perylene	252	20.004	20.012	-0.008	100	37830	0.1000	0.1014	
40 Indeno[1,2,3-cd]pyrene	276	21.642	21.642	0.000	99	32134	0.1000	0.0985	M
41 Dibenz(a,h)anthracene	278	21.685	21.692	-0.007	96	36273	0.1000	0.0989	
42 Benzo[g,h,i]perylene	276	22.087	22.094	-0.007	96	38454	0.1000	0.0993	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

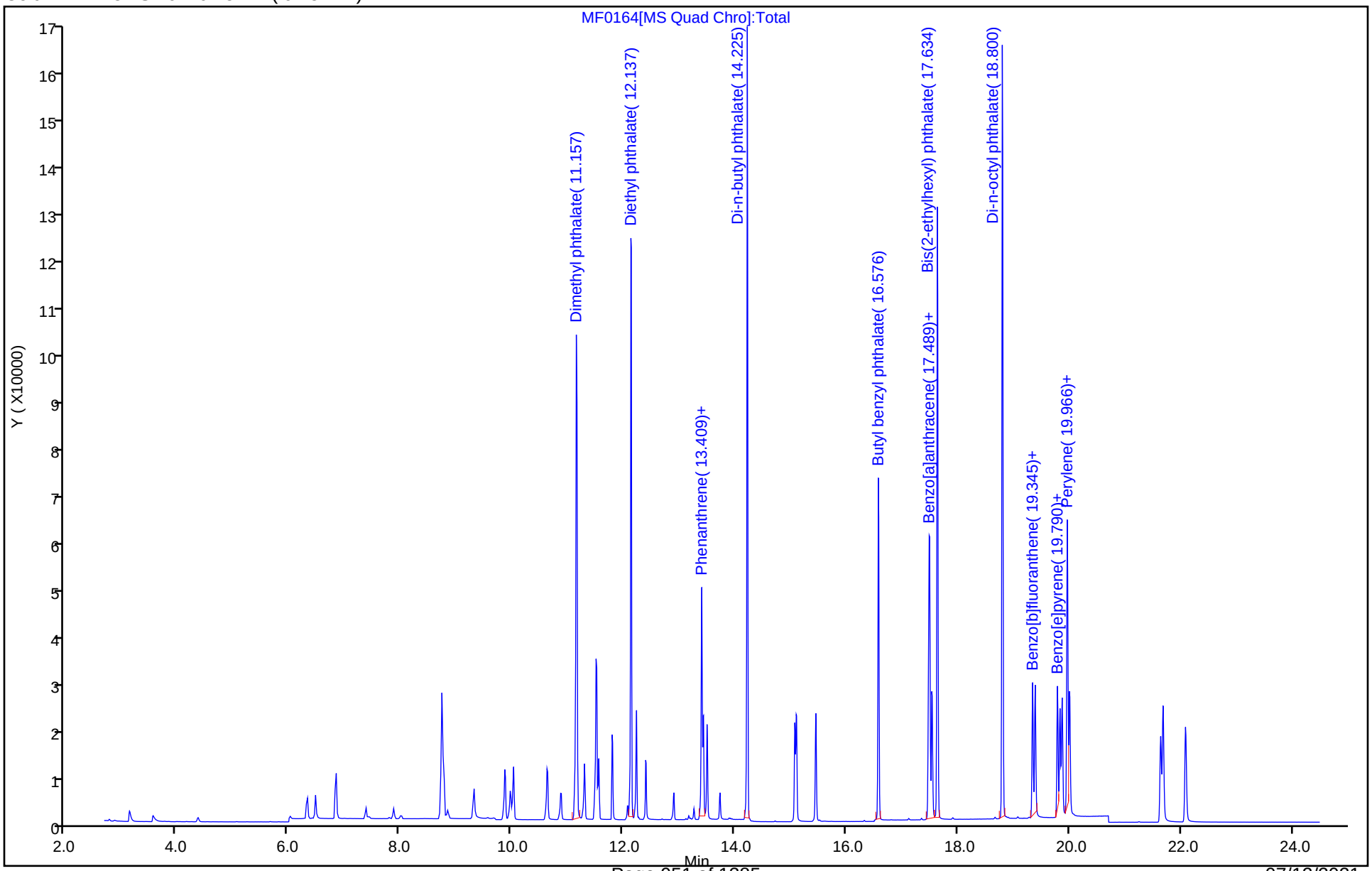
Report Date: 03-Jun-2021 18:30:06 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0164.D

Injection Date:	03-Jun-2021 10:49:59	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

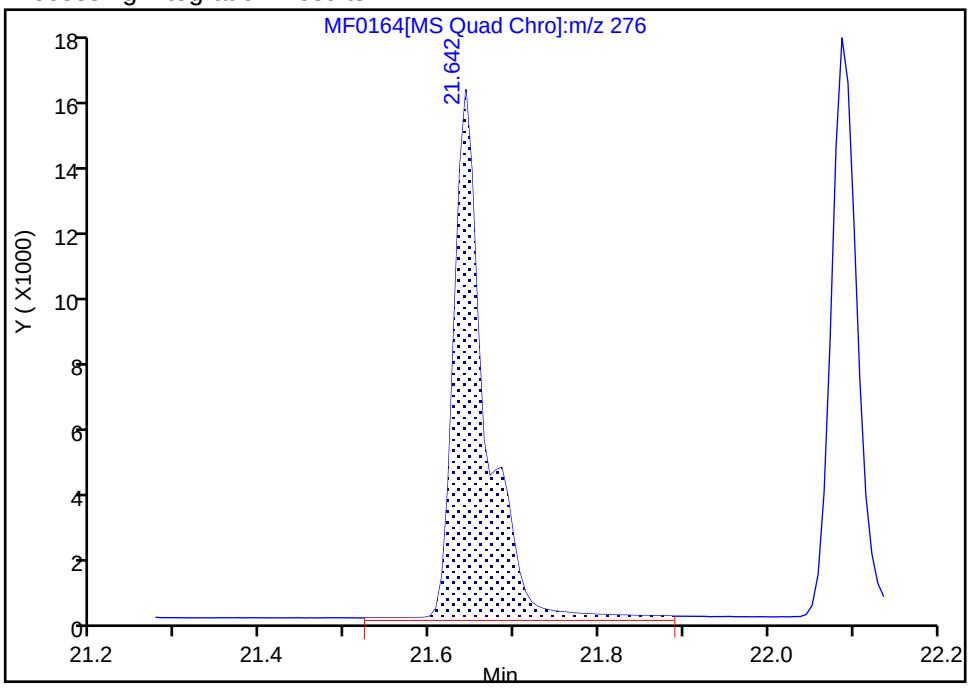
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0164.D				
Injection Date:	03-Jun-2021 10:49:59	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

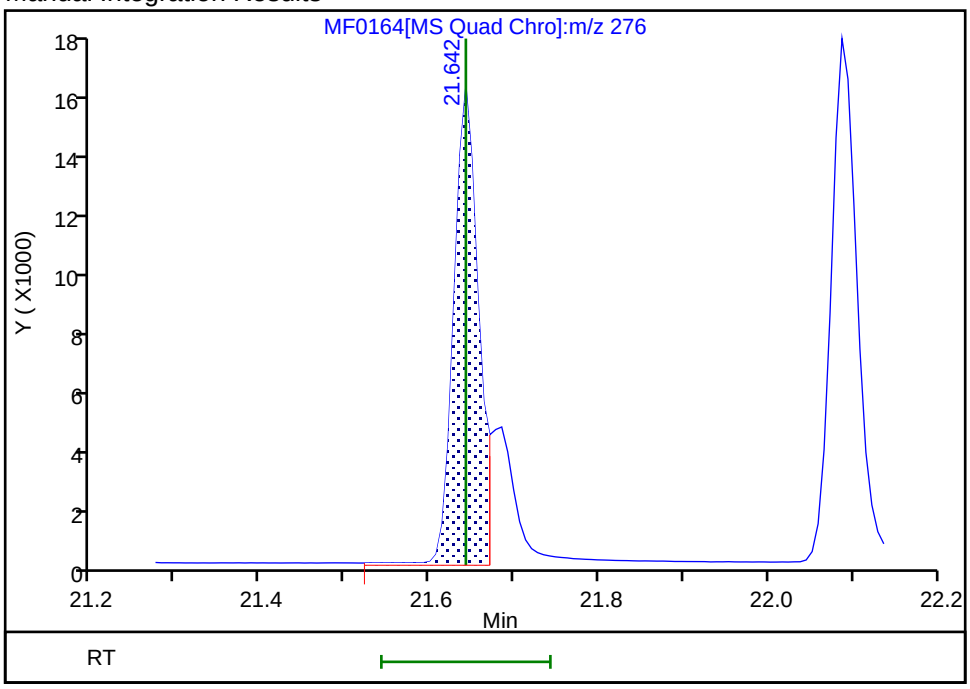
Processing Integration Results

RT: 21.64
Area: 42838
Amount: 0.121235
Amount Units: ug/ml



Manual Integration Results

RT: 21.64
Area: 32134
Amount: 0.098471
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:23:07

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0165.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 03-Jun-2021 11:20:48 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0030970-006
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:30:08 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 03-Jun-2021 18:23:37

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	3.147	3.133	0.014	82	1483	0.0500	0.0481	
	2 N-Nitrosodimethylamine	74	3.578	3.526	0.052	87	1319	0.0500	0.0441	
	3 Bis(2-chloroethyl)ether	93	6.479	6.479	0.000	94	2428	0.0500	0.0481	
*	4 1,4-Dichlorobenzene-d4	152	6.850	6.850	0.000	95	11898	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.746	8.746	0.000	93	36425	0.2500	0.2500	
	6 Naphthalene	128	8.787	8.787	0.000	93	7548	0.0500	0.0506	
	7 Quinoline	129	9.323	9.323	0.000	99	3955	0.0500	0.0477	
	8 2-Methylnaphthalene	142	9.873	9.874	-0.001	97	5753	0.0500	0.0514	
$	9 1-Methylnaphthalene-d10	152	9.971	9.971	0.000	100	4735	0.0500	0.0500	
	10 1-Methylnaphthalene	142	10.032	10.032	0.000	96	5338	0.0500	0.0509	
	11 Dimethyl phthalate	163	11.169	11.170	-0.001	87	54155	0.5000	0.4446	
	12 Acenaphthylene	152	11.304	11.304	0.000	99	8362	0.0500	0.0477	
*	13 Acenaphthene-d10	164	11.512	11.524	-0.012	97	25904	0.2500	0.2500	
	14 Acenaphthene	154	11.561	11.561	0.000	92	5543	0.0500	0.0489	
	15 Dibenzofuran	168	11.809	11.801	0.008	98	8452	0.0500	0.0486	
	16 Diethyl phthalate	149	12.136	12.144	-0.008	99	44472	0.5000	0.4287	
	17 Fluorene	166	12.238	12.238	0.000	96	6979	0.0500	0.0480	
	18 N-Nitrosodiphenylamine	169	12.410	12.402	0.008	100	4210	0.0500	0.0472	
	19 Hexachlorobenzene	284	12.909	12.909	0.000	91	2741	0.0500	0.0502	
*	20 Phenanthrene-d10	188	13.409	13.409	0.000	95	55043	0.2500	0.2500	
	21 Phenanthrene	178	13.440	13.440	0.000	100	11378	0.0500	0.0486	
	22 Anthracene	178	13.510	13.502	0.008	100	10399	0.0500	0.0481	
	23 Di-n-butyl phthalate	149	14.225	14.225	0.000	100	74799	0.5000	0.4166	
$	24 Fluoranthene-d10 (Surr)	212	15.078	15.078	0.000	97	12043	0.0500	0.0468	
	25 Fluoranthene	202	15.109	15.109	0.000	99	14448	0.0500	0.0470	
	26 Pyrene	202	15.454	15.454	0.000	97	14424	0.0500	0.0484	
	27 Butyl benzyl phthalate	149	16.576	16.584	-0.008	100	32945	0.5000	0.4091	
	28 Benzo[a]anthracene	228	17.473	17.481	-0.008	100	14572	0.0500	0.0467	
*	29 Chrysene-d12	240	17.496	17.496	0.000	62	60203	0.2500	0.2500	
	30 Chrysene	228	17.542	17.542	0.000	100	16447	0.0500	0.0500	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.634	17.642	-0.008	97	48706	0.5000	0.4035	
32 Di-n-octyl phthalate	149	18.800	18.808	-0.008	100	83856	0.5000	0.4182	
33 Benzo[b]fluoranthene	252	19.345	19.345	0.000	100	15290	0.0500	0.0480	
34 Benzo[k]fluoranthene	252	19.391	19.391	0.000	100	16796	0.0500	0.0487	
35 Benzo[e]pyrene	252	19.790	19.797	-0.007	100	15730	0.0500	0.0493	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.836	19.843	-0.007	98	12397	0.0500	0.0474	
37 Benzo[a]pyrene	252	19.874	19.874	0.000	100	14999	0.0500	0.0488	
* 38 Perylene-d12	264	19.966	19.974	-0.008	98	68376	0.2500	0.2500	
39 Perylene	252	20.012	20.012	0.000	100	16758	0.0500	0.0507	
40 Indeno[1,2,3-cd]pyrene	276	21.642	21.642	0.000	99	14859	0.0500	0.0514	M
41 Dibenz(a,h)anthracene	278	21.685	21.692	-0.007	97	15909	0.0500	0.0490	
42 Benzo[g,h,i]perylene	276	22.087	22.094	-0.007	96	16775	0.0500	0.0490	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00013 Amount Added: 1.00 Units: mL

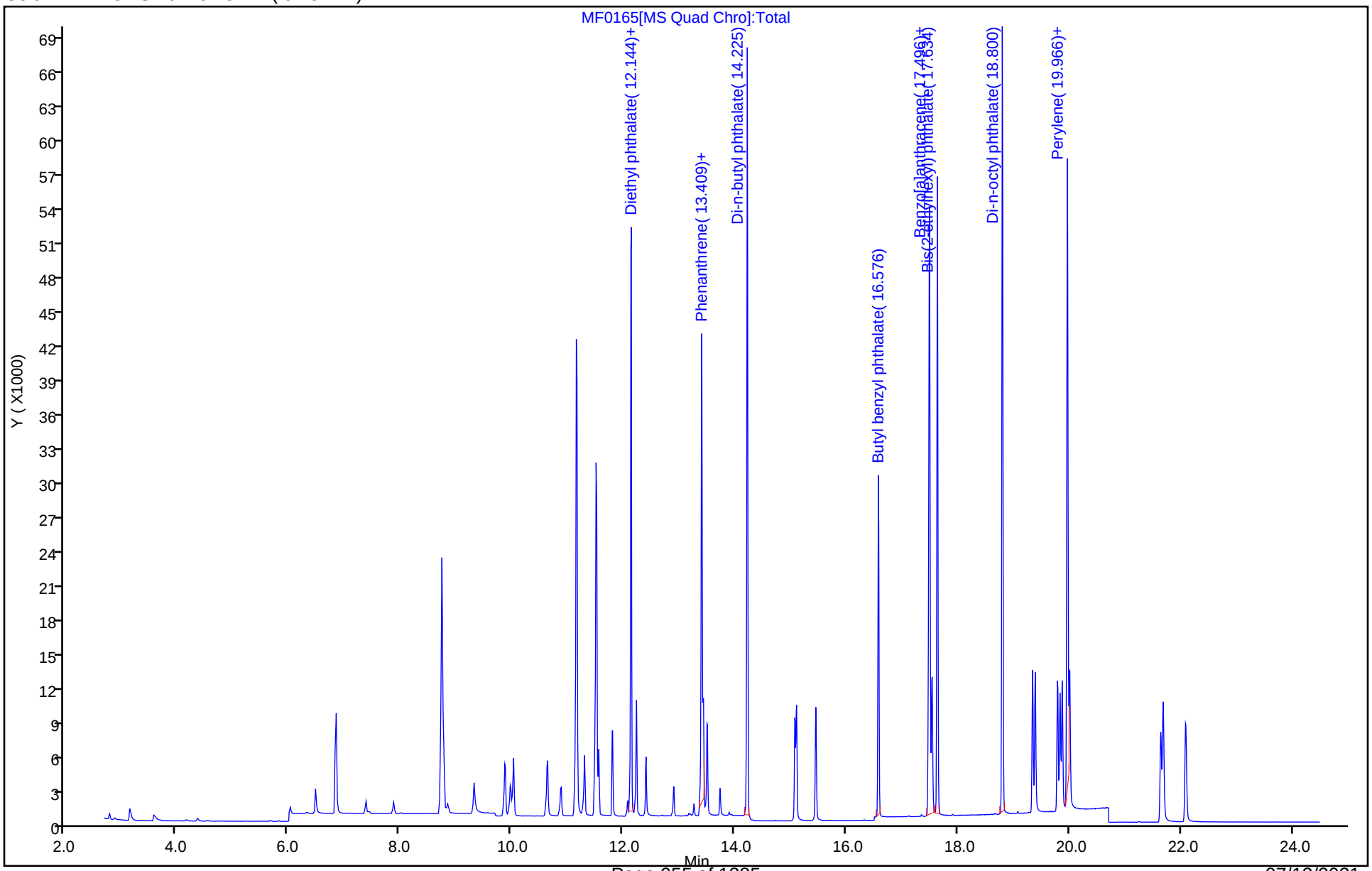
Report Date: 03-Jun-2021 18:30:08 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0165.D

Injection Date:	03-Jun-2021 11:20:48	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

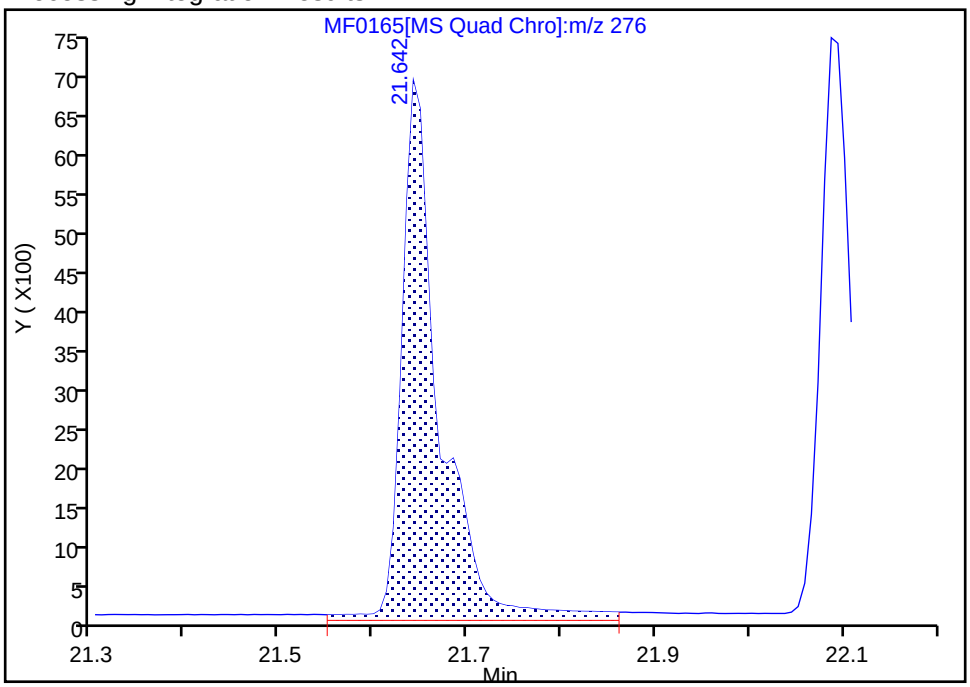
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0165.D
Injection Date: 03-Jun-2021 11:20:48 Instrument ID: HP21585
Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

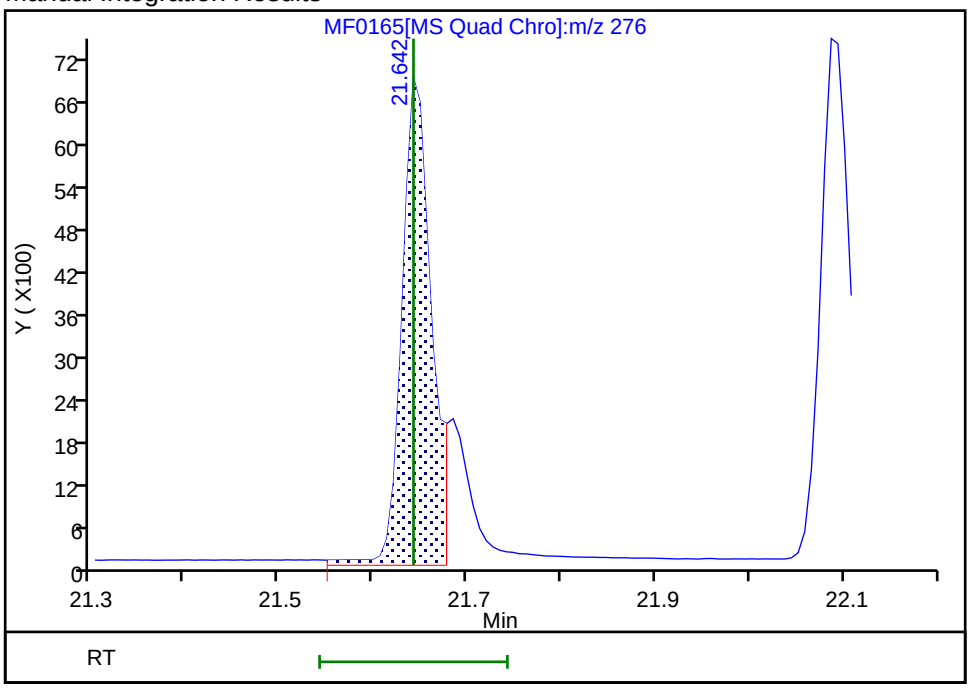
Processing Integration Results

RT: 21.64
Area: 19419
Amount: 0.059512
Amount Units: ug/ml



Manual Integration Results

RT: 21.64
Area: 14859
Amount: 0.051448
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:23:21
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Jun-2021 11:51:27 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0030970-007
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:30:11 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 03-Jun-2021 18:24:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.155	3.155	0.000	83	304	0.0100	0.0101	
2 N-Nitrosodimethylamine	74	3.615	3.615	0.000	79	237	0.0100	0.008108	M
3 Bis(2-chloroethyl)ether	93	6.479	6.479	0.000	97	476	0.0100	0.009746	M
* 4 1,4-Dichlorobenzene-d4	152	6.850	6.850	0.000	94	11637	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	91	35278	0.2500	0.2500	
6 Naphthalene	128	8.787	8.787	0.000	94	1550	0.0100	0.0107	
7 Quinoline	129	9.344	9.344	0.000	99	742	0.0100	0.009231	
8 2-Methylnaphthalene	142	9.886	9.886	0.000	97	1084	0.0100	0.0100	
$ 9 1-Methylnaphthalene-d10	152	9.983	9.983	0.000	99	949	0.0100	0.0103	
10 1-Methylnaphthalene	142	10.032	10.032	0.000	98	1023	0.0100	0.0101	
11 Dimethyl phthalate	163	11.169	11.169	0.000	89	29102	0.2500	0.2387	
12 Acenaphthylene	152	11.304	11.304	0.000	98	1732	0.0100	0.009863	
* 13 Acenaphthene-d10	164	11.524	11.524	0.000	94	25923	0.2500	0.2500	
14 Acenaphthene	154	11.561	11.561	0.000	90	1224	0.0100	0.0108	
15 Dibenzofuran	168	11.809	11.809	0.000	100	1874	0.0100	0.0108	
16 Diethyl phthalate	149	12.144	12.144	0.000	97	23634	0.2500	0.2277	
17 Fluorene	166	12.238	12.238	0.000	95	1433	0.0100	0.009845	
18 N-Nitrosodiphenylamine	169	12.410	12.410	0.000	98	830	0.0100	0.009378	
19 Hexachlorobenzene	284	12.909	12.909	0.000	91	576	0.0100	0.0106	
* 20 Phenanthrene-d10	188	13.409	13.409	0.000	95	54640	0.2500	0.2500	
21 Phenanthrene	178	13.440	13.440	0.000	100	2486	0.0100	0.0107	
22 Anthracene	178	13.510	13.510	0.000	100	2062	0.0100	0.009609	
23 Di-n-butyl phthalate	149	14.225	14.225	0.000	100	38672	0.2500	0.2170	
$ 24 Fluoranthene-d10 (Surr)	212	15.084	15.084	0.000	96	2369	0.0100	0.009266	
25 Fluoranthene	202	15.109	15.109	0.000	99	3399	0.0100	0.0111	
26 Pyrene	202	15.460	15.460	0.000	97	2961	0.0100	0.0101	
27 Butyl benzyl phthalate	149	16.576	16.576	0.000	100	17043	0.2500	0.2155	
28 Benzo[a]anthracene	228	17.473	17.473	0.000	100	3368	0.0100	0.0110	
* 29 Chrysene-d12	240	17.496	17.496	0.000	58	59132	0.2500	0.2500	
30 Chrysene	228	17.542	17.542	0.000	100	3365	0.0100	0.0104	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.634	17.634	0.000	97	25307	0.2500	0.2134	
32 Di-n-octyl phthalate	149	18.800	18.800	0.000	100	43353	0.2500	0.2214	
33 Benzo[b]fluoranthene	252	19.345	19.345	0.000	100	3011	0.0100	0.009685	
34 Benzo[k]fluoranthene	252	19.391	19.391	0.000	100	3407	0.0100	0.0101	
35 Benzo[e]pyrene	252	19.789	19.789	0.000	100	3132	0.0100	0.0101	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.835	19.835	0.000	98	2506	0.0100	0.009815	
37 Benzo[a]pyrene	252	19.874	19.874	0.000	100	2828	0.0100	0.009417	
* 38 Perylene-d12	264	19.966	19.966	0.000	98	66771	0.2500	0.2500	
39 Perylene	252	20.012	20.012	0.000	100	3325	0.0100	0.0103	
40 Indeno[1,2,3-cd]pyrene	276	21.649	21.649	0.000	98	2733	0.0100	0.009690	M
41 Dibenz(a,h)anthracene	278	21.692	21.692	0.000	97	3036	0.0100	0.009578	
42 Benzo[g,h,i]perylene	276	22.094	22.094	0.000	95	3405	0.0100	0.0102	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00012 Amount Added: 1.00 Units: mL

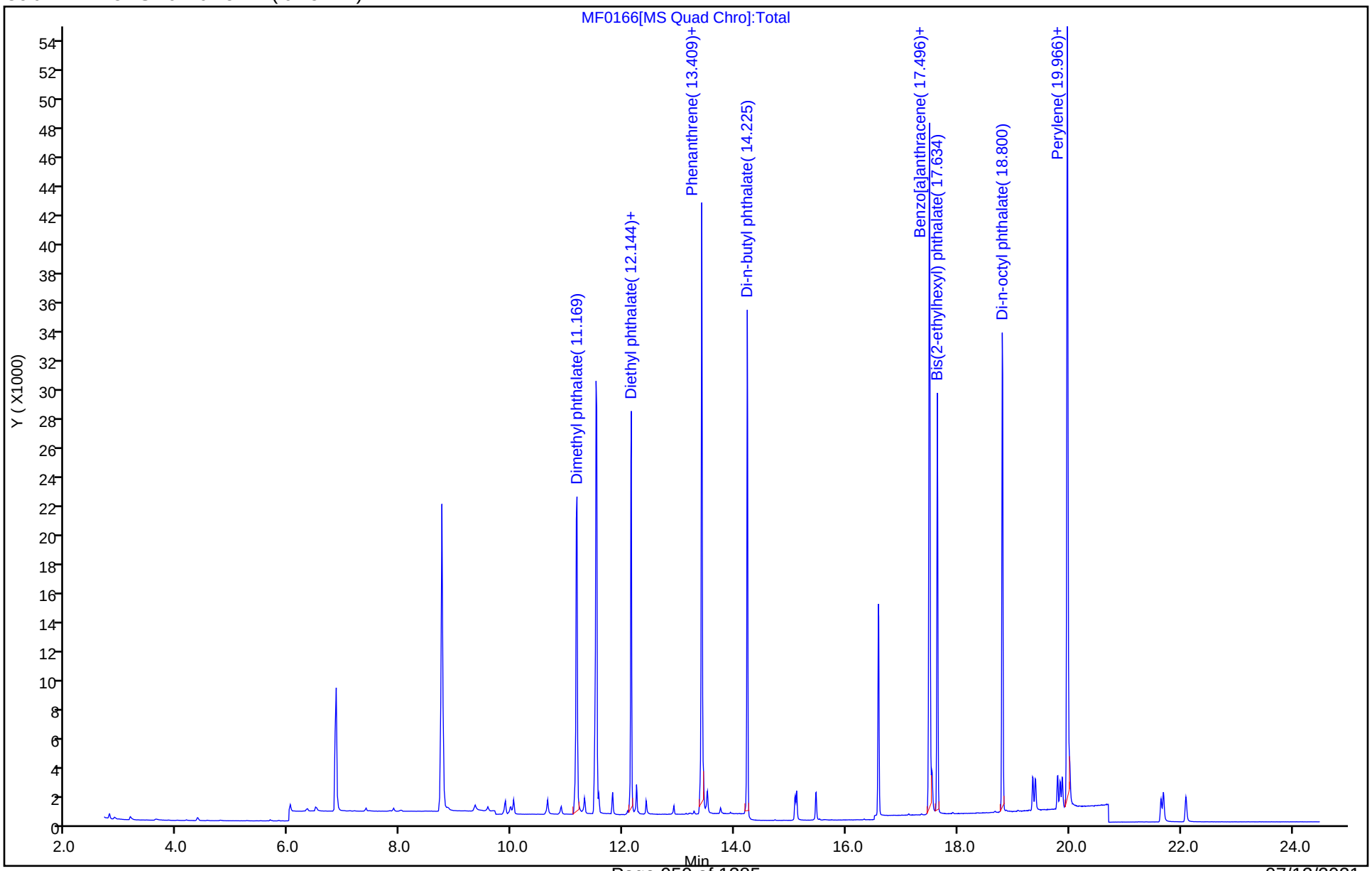
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Injection Date:	03-Jun-2021 11:51:27	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

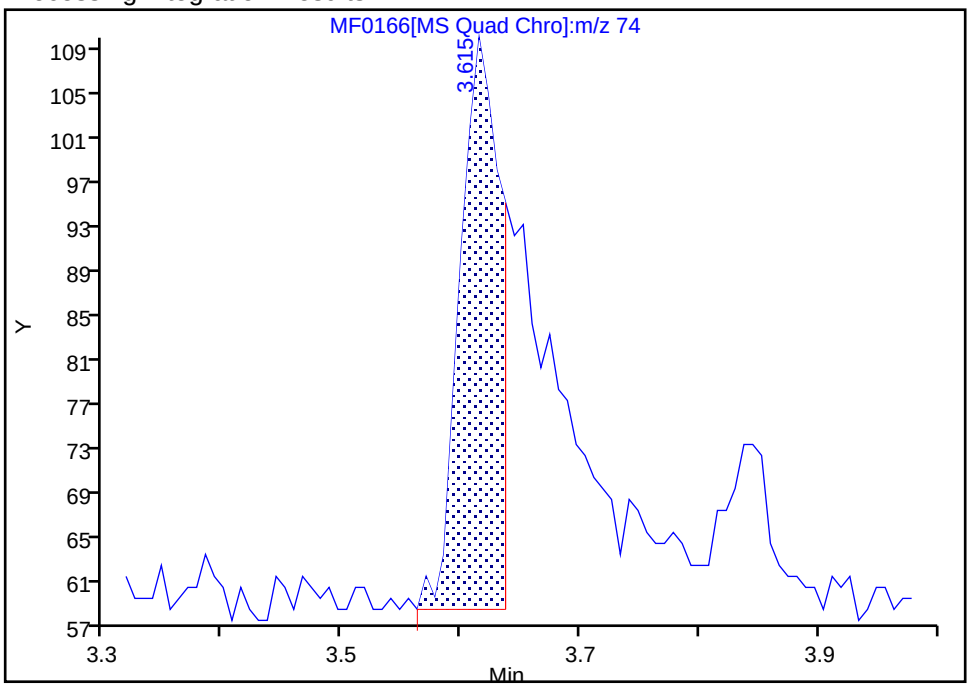
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Injection Date:	03-Jun-2021 11:51:27	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

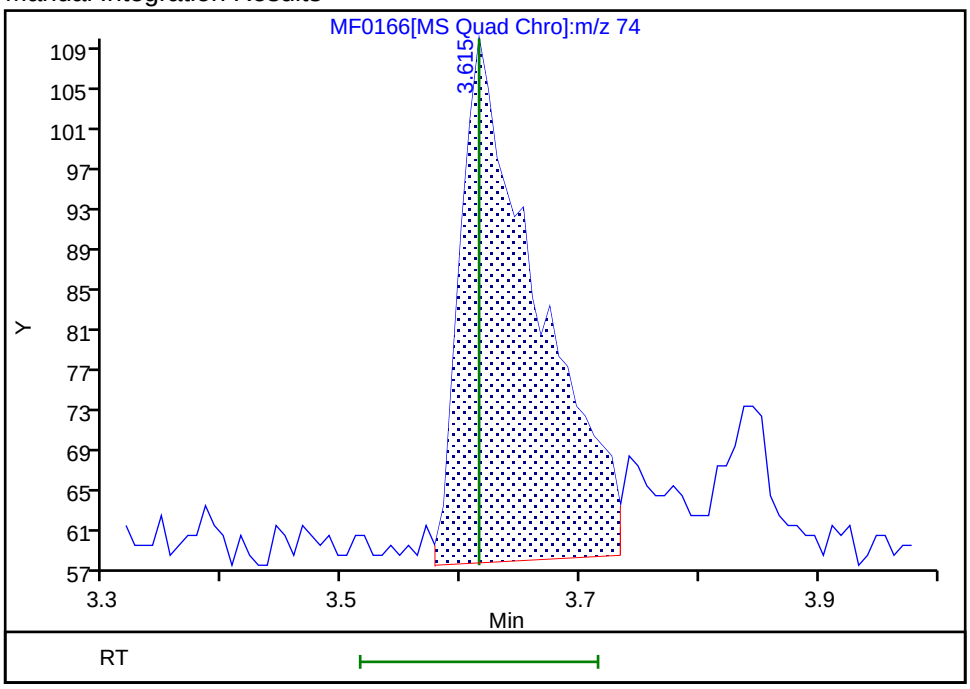
Processing Integration Results

RT: 3.61
Area: 116
Amount: 0.011732
Amount Units: ug/ml



Manual Integration Results

RT: 3.61
Area: 237
Amount: 0.008108
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:23:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

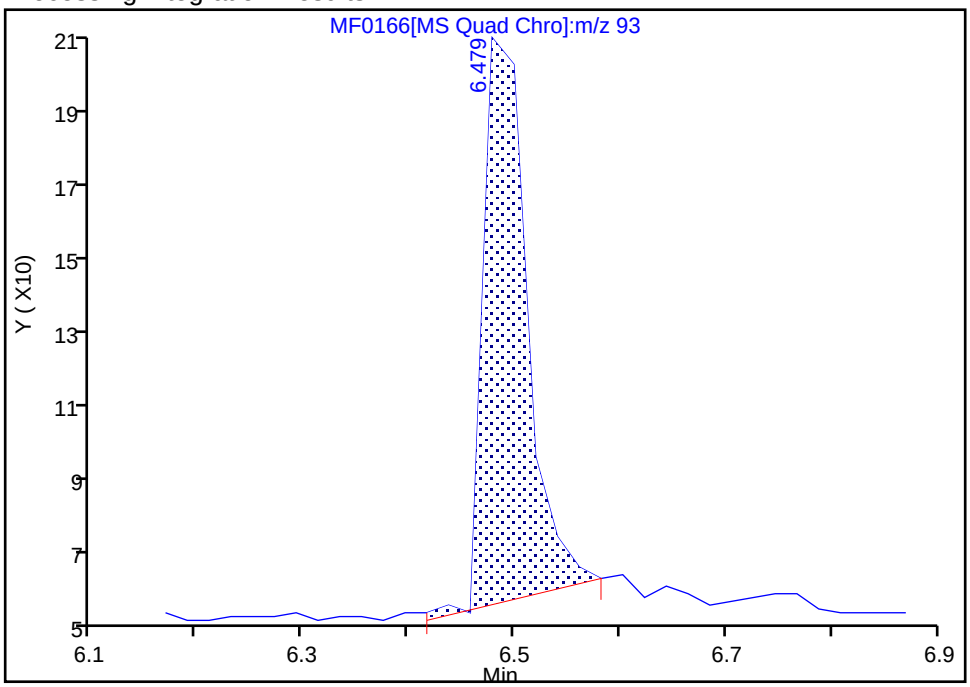
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Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

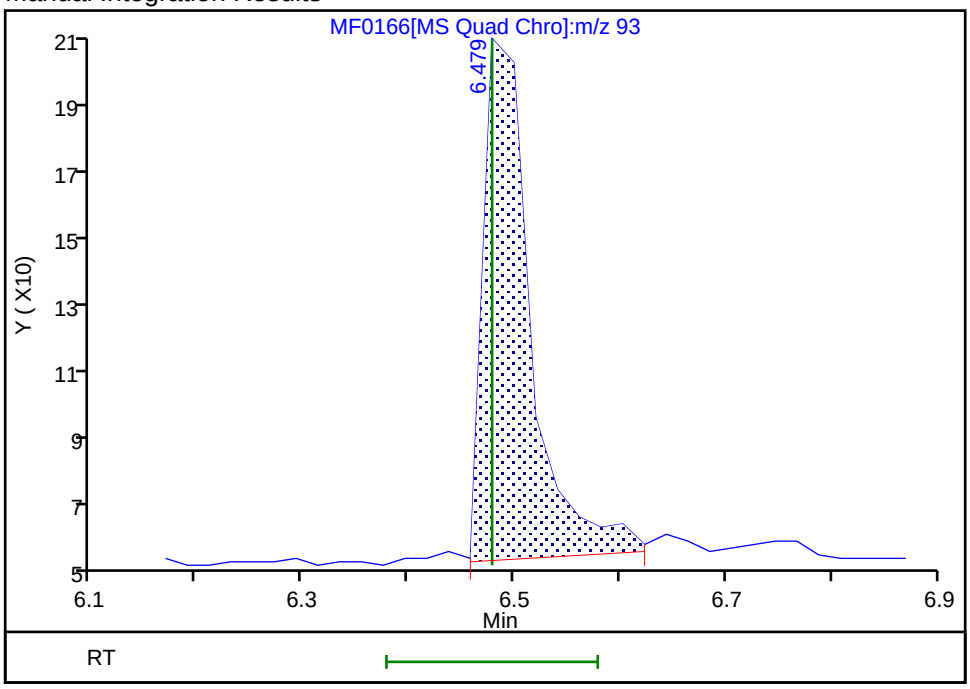
Processing Integration Results

RT: 6.48
Area: 428
Amount: 0.008909
Amount Units: ug/ml



Manual Integration Results

RT: 6.48
Area: 476
Amount: 0.009746
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:24:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

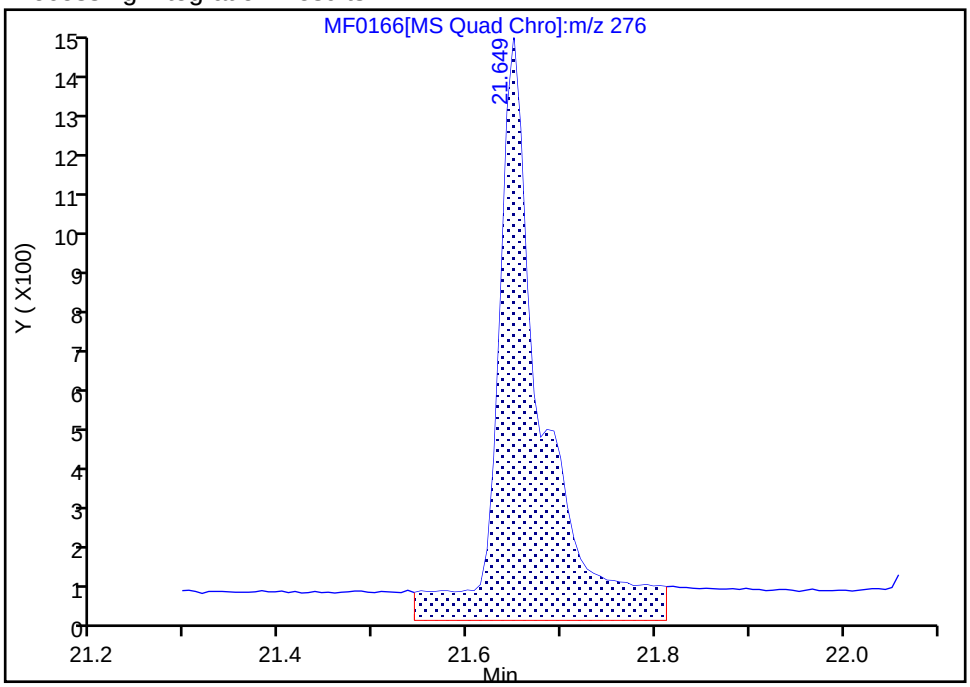
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Injection Date:	03-Jun-2021 11:51:27	Instrument ID:	HP21585
Lims ID:	IC L1		
Client ID:			
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

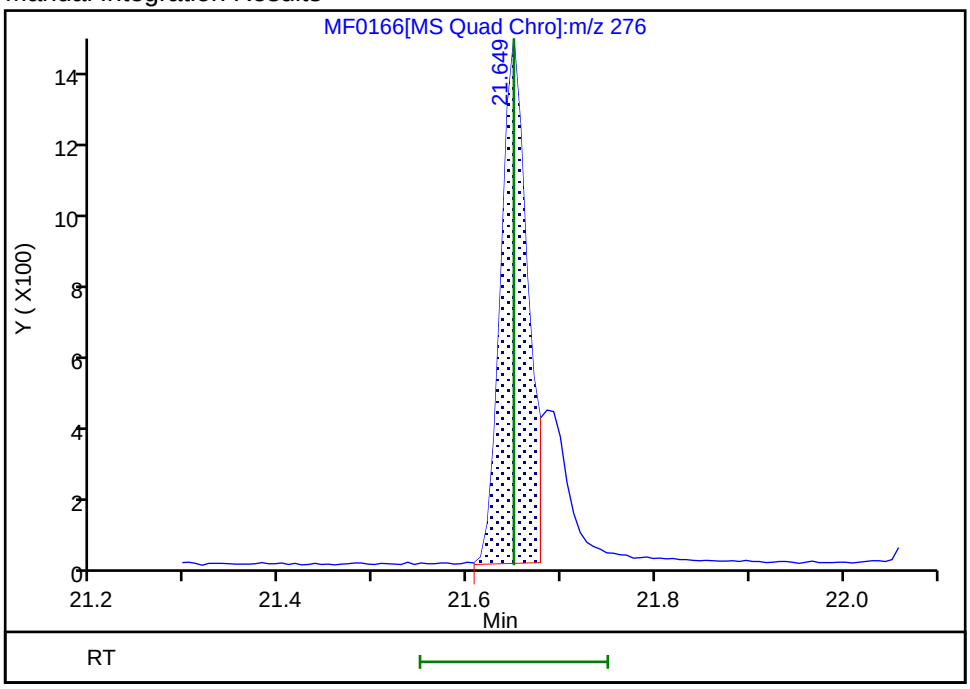
Processing Integration Results

RT: 21.65
Area: 4793
Amount: 0.009072
Amount Units: ug/ml



Manual Integration Results

RT: 21.65
Area: 2733
Amount: 0.009690
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:24:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

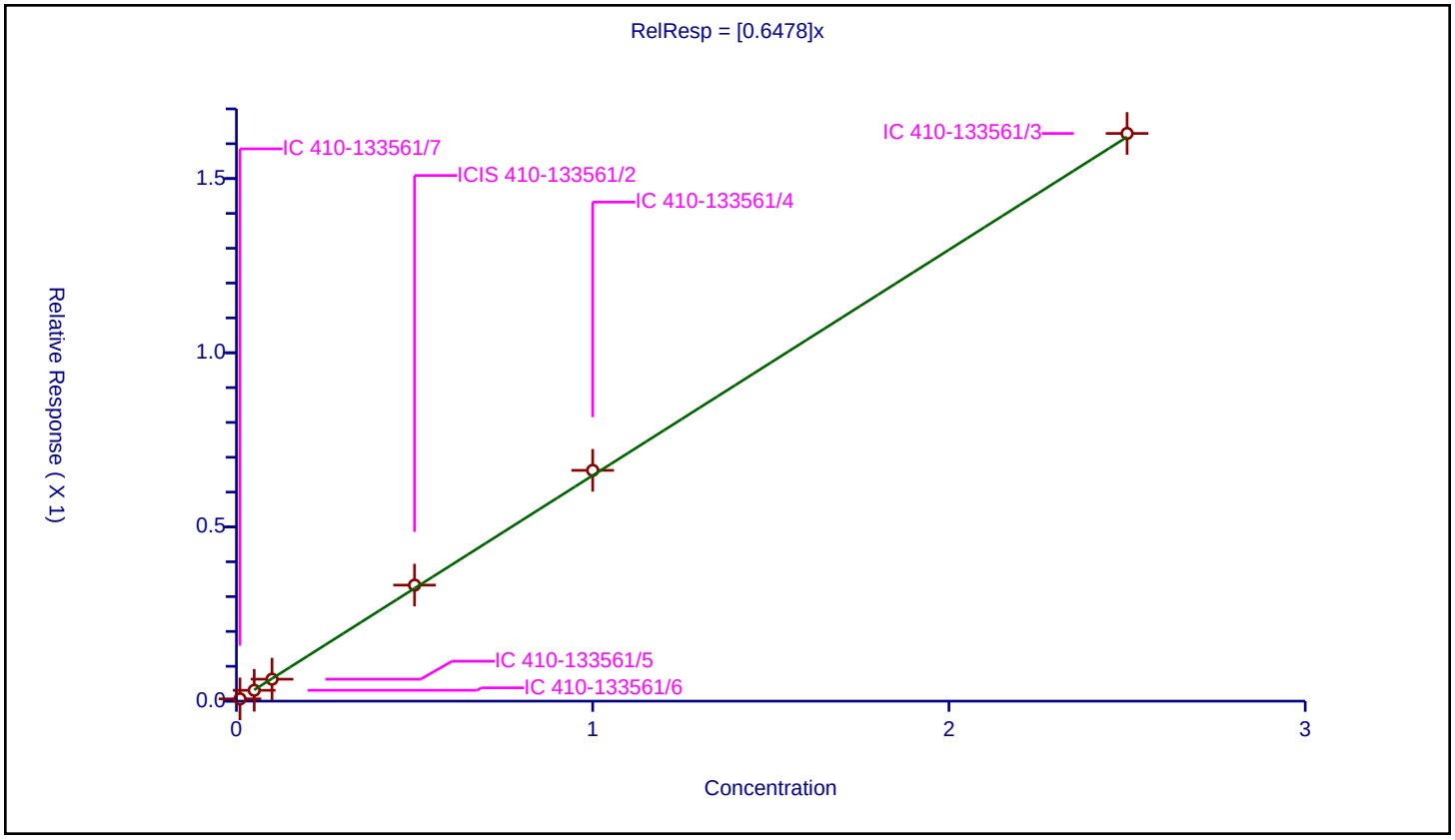
Curve Coefficients

Intercept:	0
Slope:	0.6478

Error Coefficients

Standard Error:	41400
Relative Standard Error:	2.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.006531	0.25	11637.0	0.653089	Y
2	IC 410-133561/6	0.05	0.031161	0.25	11898.0	0.623214	Y
3	IC 410-133561/5	0.1	0.062995	0.25	13120.0	0.629954	Y
4	ICIS 410-133561/2	0.5	0.333089	0.25	13994.0	0.666178	Y
5	IC 410-133561/4	1.0	0.662477	0.25	13565.0	0.662477	Y
6	IC 410-133561/3	2.5	1.629477	0.25	12759.0	0.651791	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

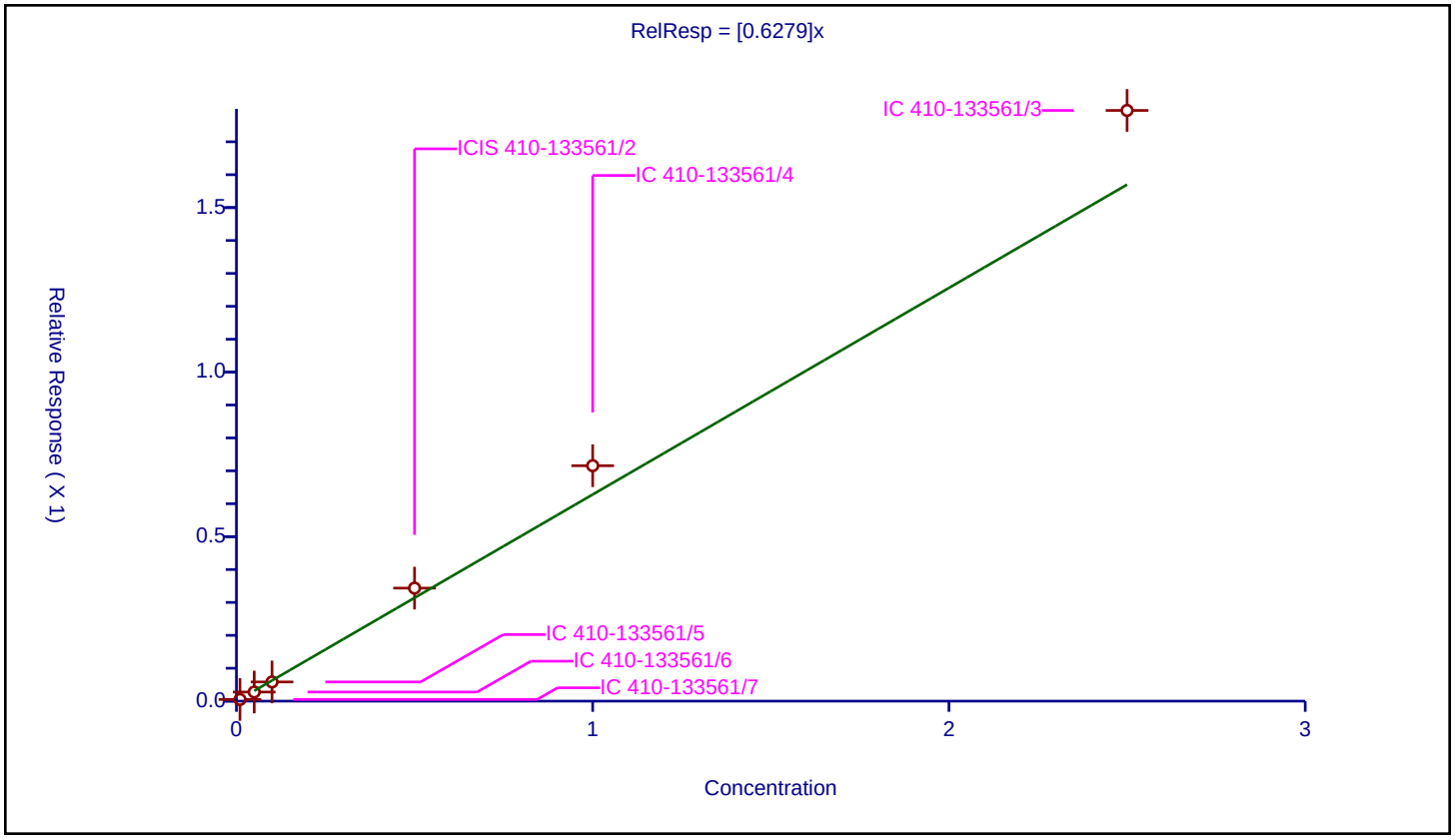
Curve Coefficients

Intercept:	0
Slope:	0.6279

Error Coefficients

Standard Error:	45400
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.005092	0.25	11637.0	0.509152	Y
2	IC 410-133561/6	0.05	0.027715	0.25	11898.0	0.554295	Y
3	IC 410-133561/5	0.1	0.058346	0.25	13120.0	0.58346	Y
4	ICIS 410-133561/2	0.5	0.343522	0.25	13994.0	0.687044	Y
5	IC 410-133561/4	1.0	0.715573	0.25	13565.0	0.715573	Y
6	IC 410-133561/3	2.5	1.795341	0.25	12759.0	0.718136	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

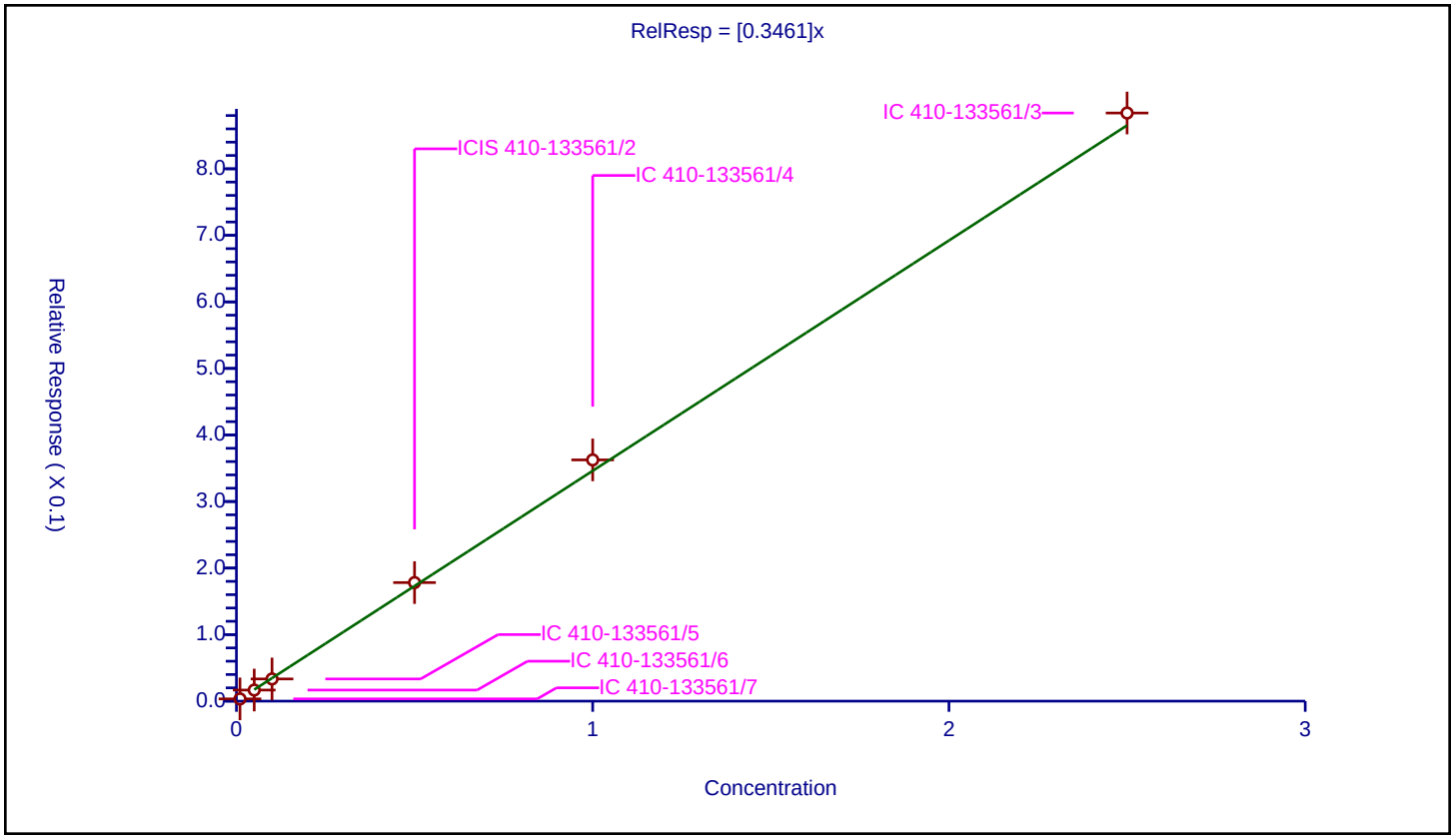
Curve Coefficients

Intercept:	0
Slope:	0.3461

Error Coefficients

Standard Error:	73000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.003373	0.25	35278.0	0.337321	Y
2	IC 410-133561/6	0.05	0.016664	0.25	36425.0	0.333288	Y
3	IC 410-133561/5	0.1	0.033359	0.25	41555.0	0.333594	Y
4	ICIS 410-133561/2	0.5	0.178185	0.25	44016.0	0.35637	Y
5	IC 410-133561/4	1.0	0.36252	0.25	43990.0	0.36252	Y
6	IC 410-133561/3	2.5	0.883782	0.25	41564.0	0.353513	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

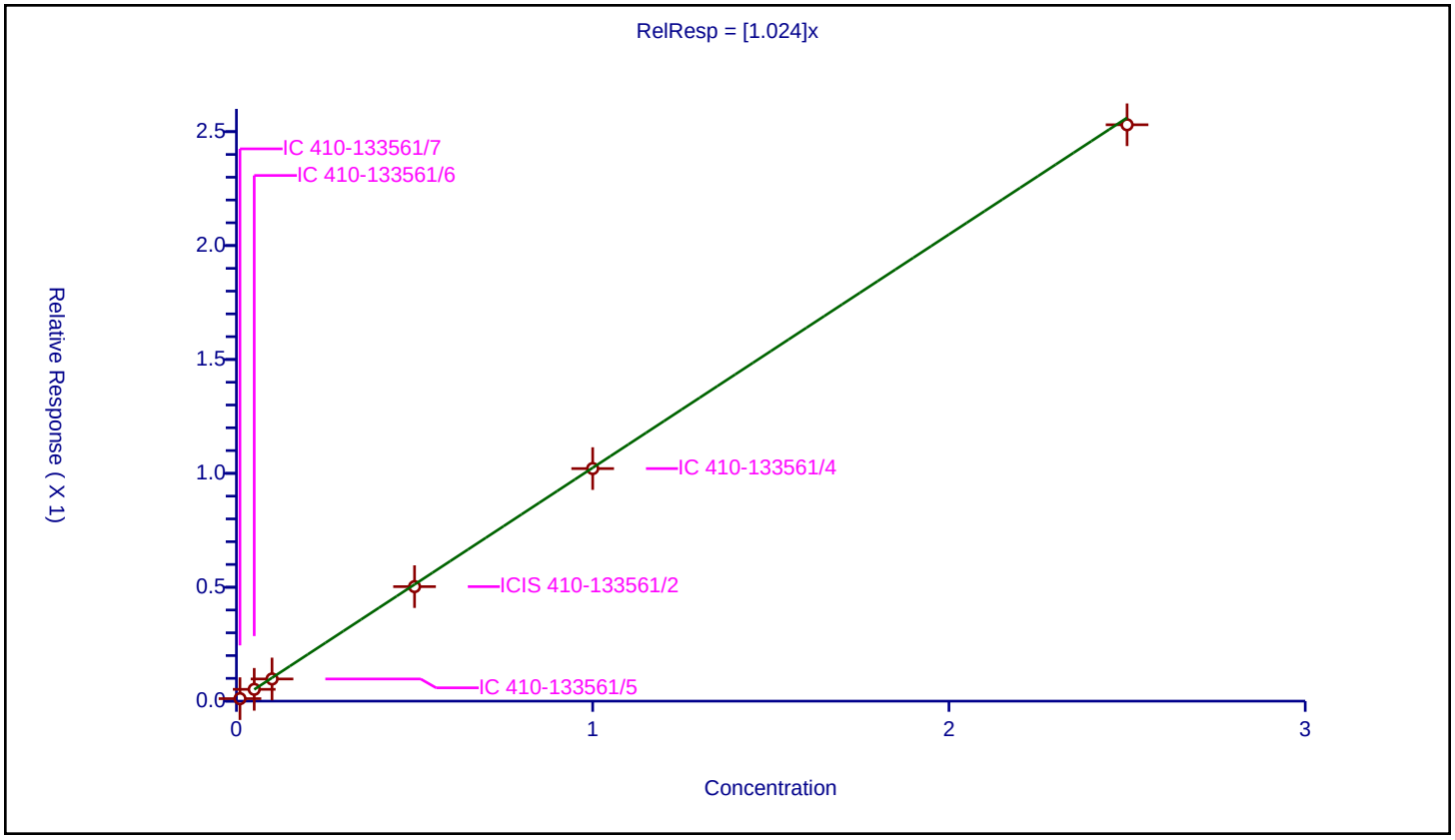
Curve Coefficients

Intercept:	0
Slope:	1.024

Error Coefficients

Standard Error:	209000
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 410-133561/7	0.01	0.010984	0.25	35278.0	1.098418	Y
2	IC 410-133561/6	0.05	0.051805	0.25	36425.0	1.036102	Y
3	IC 410-133561/5	0.1	0.097353	0.25	41555.0	0.973529	Y
4	ICIS 410-133561/2	0.5	0.502681	0.25	44016.0	1.005362	Y
5	IC 410-133561/4	1.0	1.020982	0.25	43990.0	1.020982	Y
6	IC 410-133561/3	2.5	2.530255	0.25	41564.0	1.012102	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

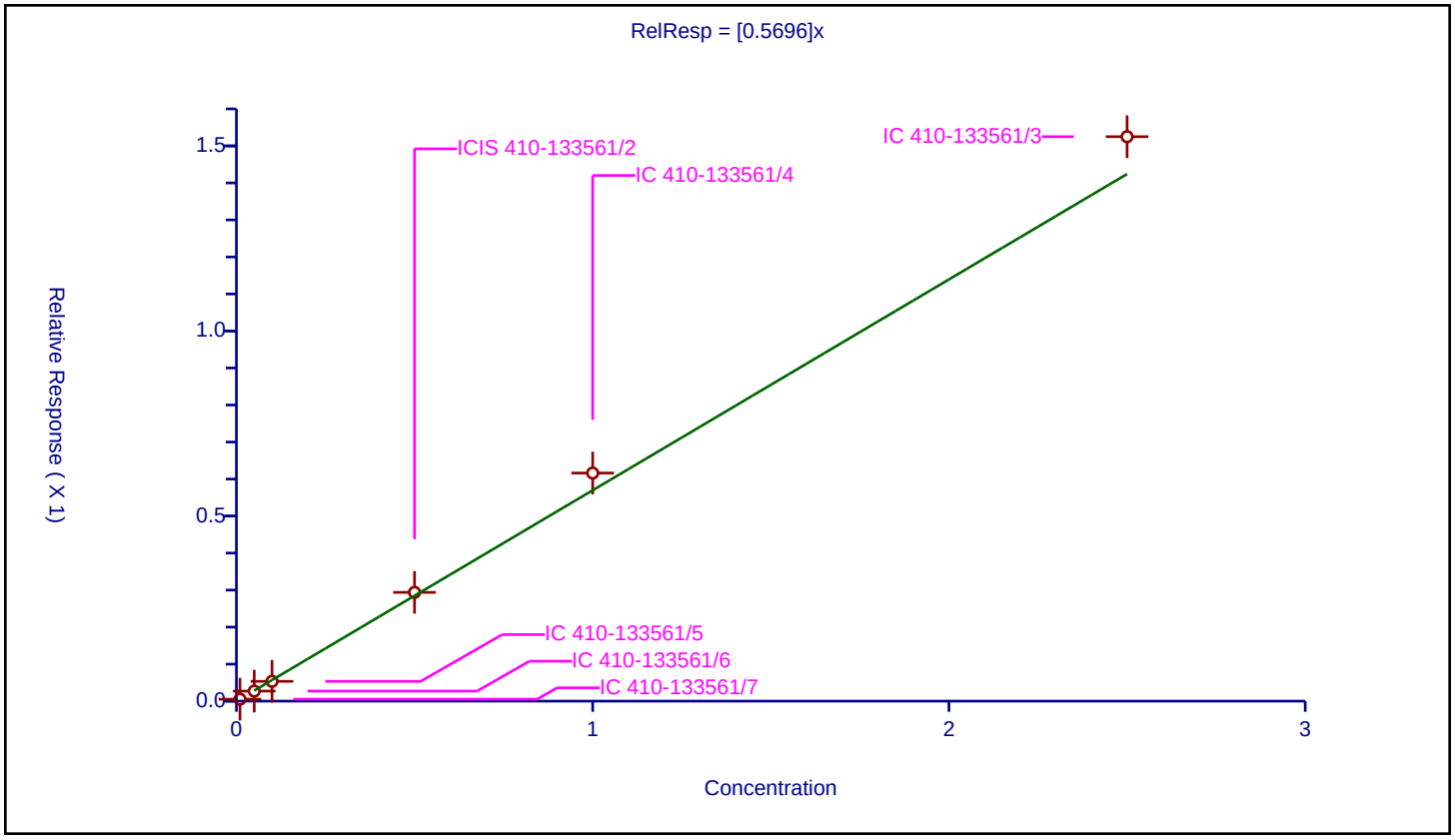
Curve Coefficients

Intercept:	0
Slope:	0.5696

Error Coefficients

Standard Error:	126000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.005258	0.25	35278.0	0.525823	Y
2	IC 410-133561/6	0.05	0.027145	0.25	36425.0	0.542896	Y
3	IC 410-133561/5	0.1	0.053531	0.25	41555.0	0.535315	Y
4	ICIS 410-133561/2	0.5	0.293853	0.25	44016.0	0.587707	Y
5	IC 410-133561/4	1.0	0.616157	0.25	43990.0	0.616157	Y
6	IC 410-133561/3	2.5	1.524859	0.25	41564.0	0.609944	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

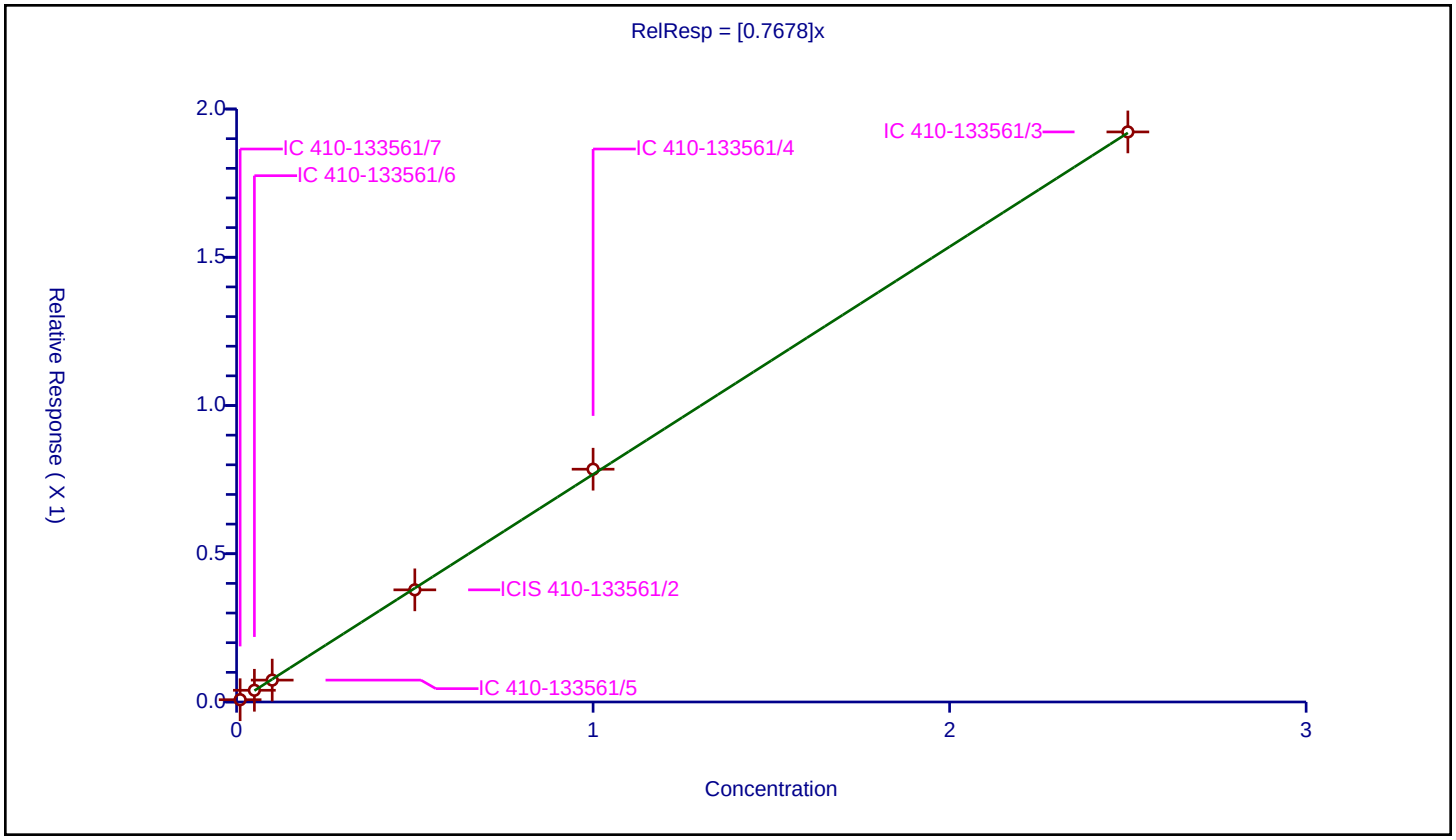
Curve Coefficients

Intercept:	0
Slope:	0.7678

Error Coefficients

Standard Error:	159000
Relative Standard Error:	2.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.007682	0.25	35278.0	0.768184	Y
2	IC 410-133561/6	0.05	0.039485	0.25	36425.0	0.789705	Y
3	IC 410-133561/5	0.1	0.073812	0.25	41555.0	0.738118	Y
4	ICIS 410-133561/2	0.5	0.378243	0.25	44016.0	0.756486	Y
5	IC 410-133561/4	1.0	0.78511	0.25	43990.0	0.78511	Y
6	IC 410-133561/3	2.5	1.922758	0.25	41564.0	0.769103	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

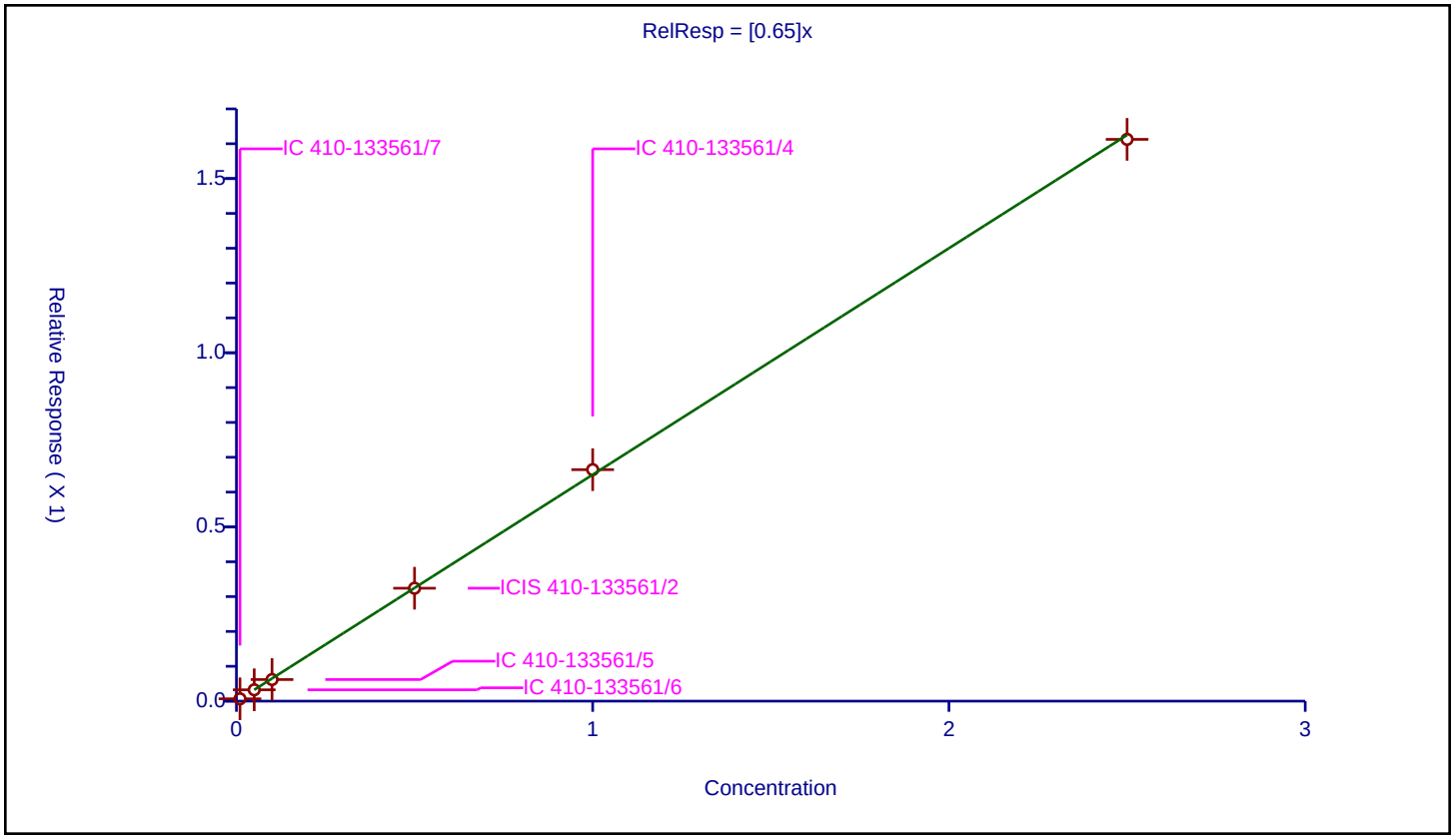
Curve Coefficients

Intercept:	0
Slope:	0.65

Error Coefficients

Standard Error:	133000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.006725	0.25	35278.0	0.672515	Y
2	IC 410-133561/6	0.05	0.032498	0.25	36425.0	0.649966	Y
3	IC 410-133561/5	0.1	0.061972	0.25	41555.0	0.619721	Y
4	ICIS 410-133561/2	0.5	0.324149	0.25	44016.0	0.648298	Y
5	IC 410-133561/4	1.0	0.664435	0.25	43990.0	0.664435	Y
6	IC 410-133561/3	2.5	1.612555	0.25	41564.0	0.645022	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

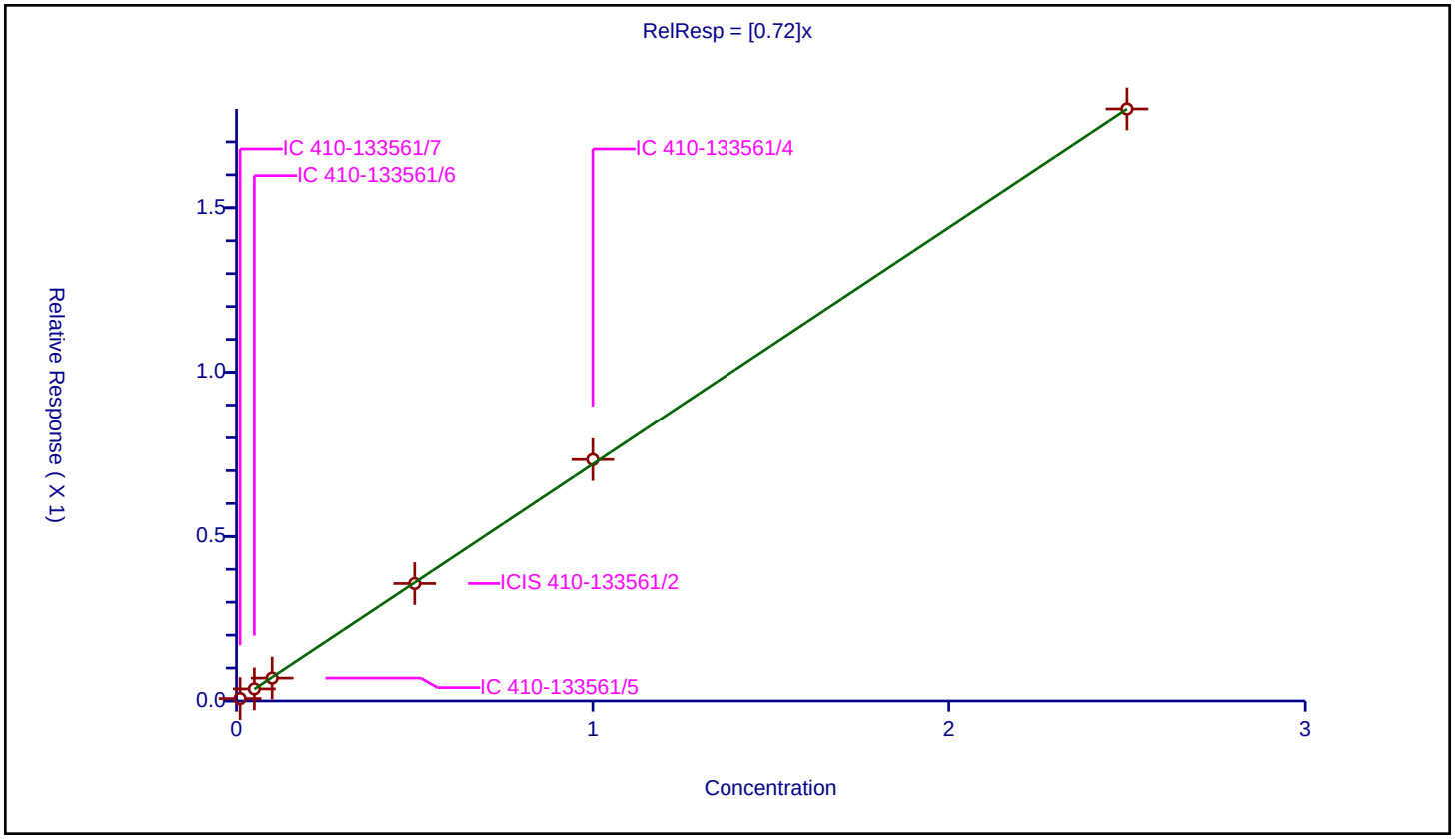
Curve Coefficients

Intercept:	0
Slope:	0.72

Error Coefficients

Standard Error:	149000
Relative Standard Error:	2.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.00725	0.25	35278.0	0.724956	Y
2	IC 410-133561/6	0.05	0.036637	0.25	36425.0	0.732739	Y
3	IC 410-133561/5	0.1	0.069486	0.25	41555.0	0.694862	Y
4	ICIS 410-133561/2	0.5	0.356836	0.25	44016.0	0.713672	Y
5	IC 410-133561/4	1.0	0.7339	0.25	43990.0	0.7339	Y
6	IC 410-133561/3	2.5	1.799965	0.25	41564.0	0.719986	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

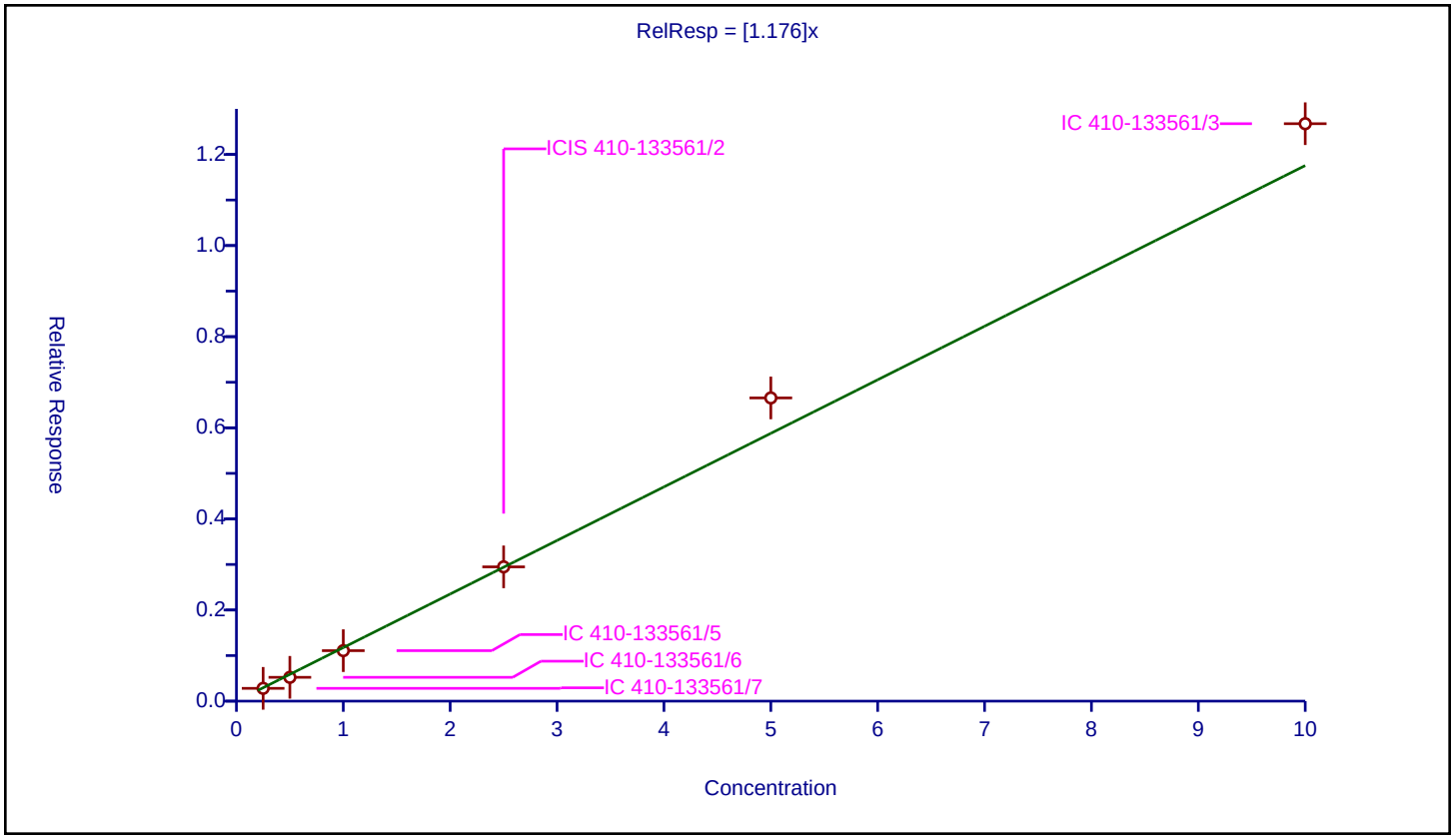
Curve Coefficients

Intercept:	0
Slope:	1.176

Error Coefficients

Standard Error:	771000
Relative Standard Error:	9.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.25	0.280658	0.25	25923.0	1.122632	Y
2	IC 410-133561/6	0.5	0.522651	0.25	25904.0	1.045302	Y
3	IC 410-133561/5	1.0	1.107879	0.25	29007.0	1.107879	Y
4	ICIS 410-133561/2	2.5	2.947652	0.25	31042.0	1.179061	Y
5	IC 410-133561/4	5.0	6.655841	0.25	30422.0	1.331168	Y
6	IC 410-133561/3	10.0	12.675147	0.25	28987.0	1.267515	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

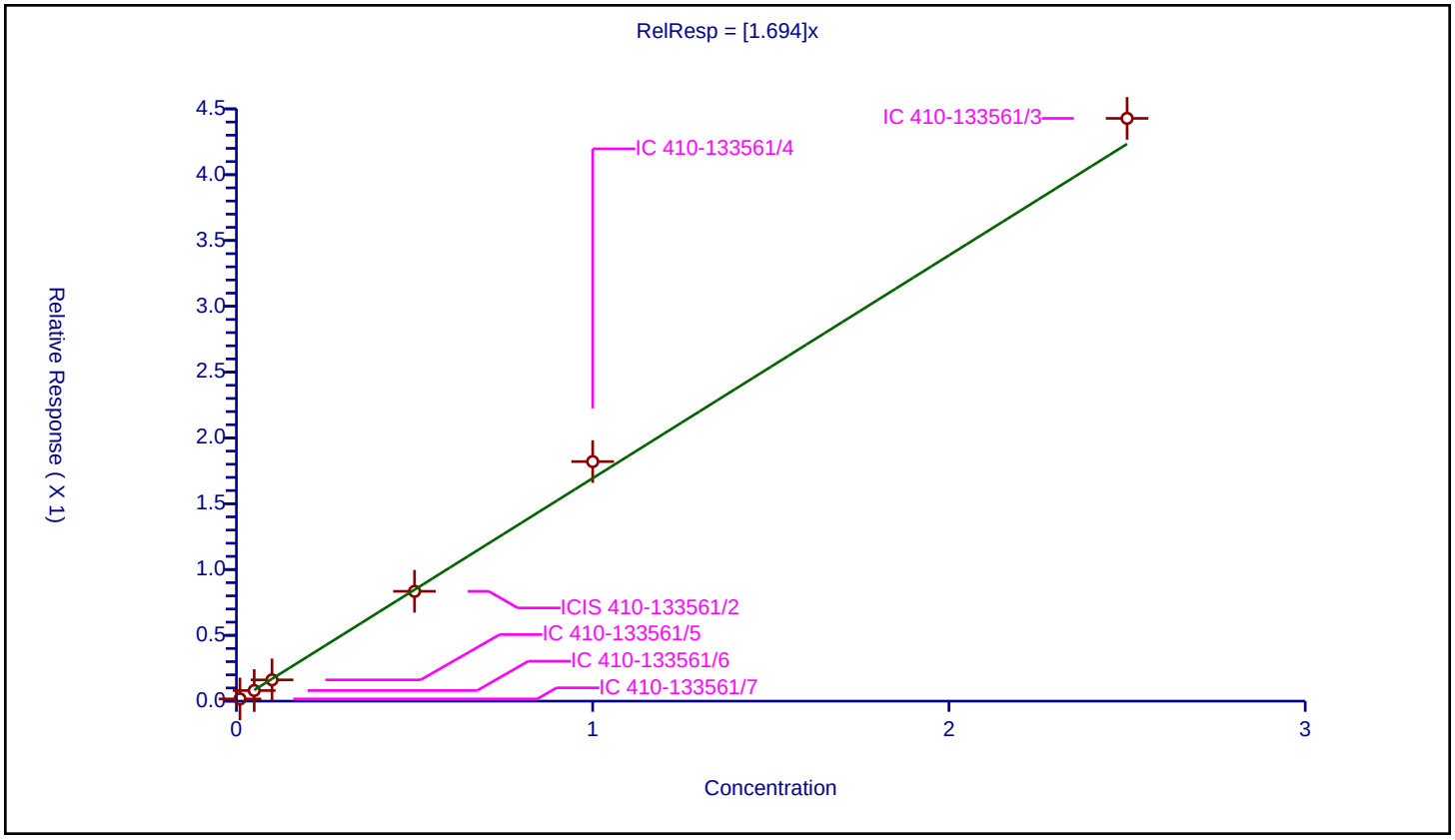
Curve Coefficients

Intercept:	0
Slope:	1.694

Error Coefficients

Standard Error:	254000
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 410-133561/7	0.01	0.016703	0.25	25923.0	1.670331	Y
2	IC 410-133561/6	0.05	0.080702	0.25	25904.0	1.614036	Y
3	IC 410-133561/5	0.1	0.161642	0.25	29007.0	1.61642	Y
4	ICIS 410-133561/2	0.5	0.834418	0.25	31042.0	1.668836	Y
5	IC 410-133561/4	1.0	1.820196	0.25	30422.0	1.820196	Y
6	IC 410-133561/3	2.5	4.427976	0.25	28987.0	1.771191	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

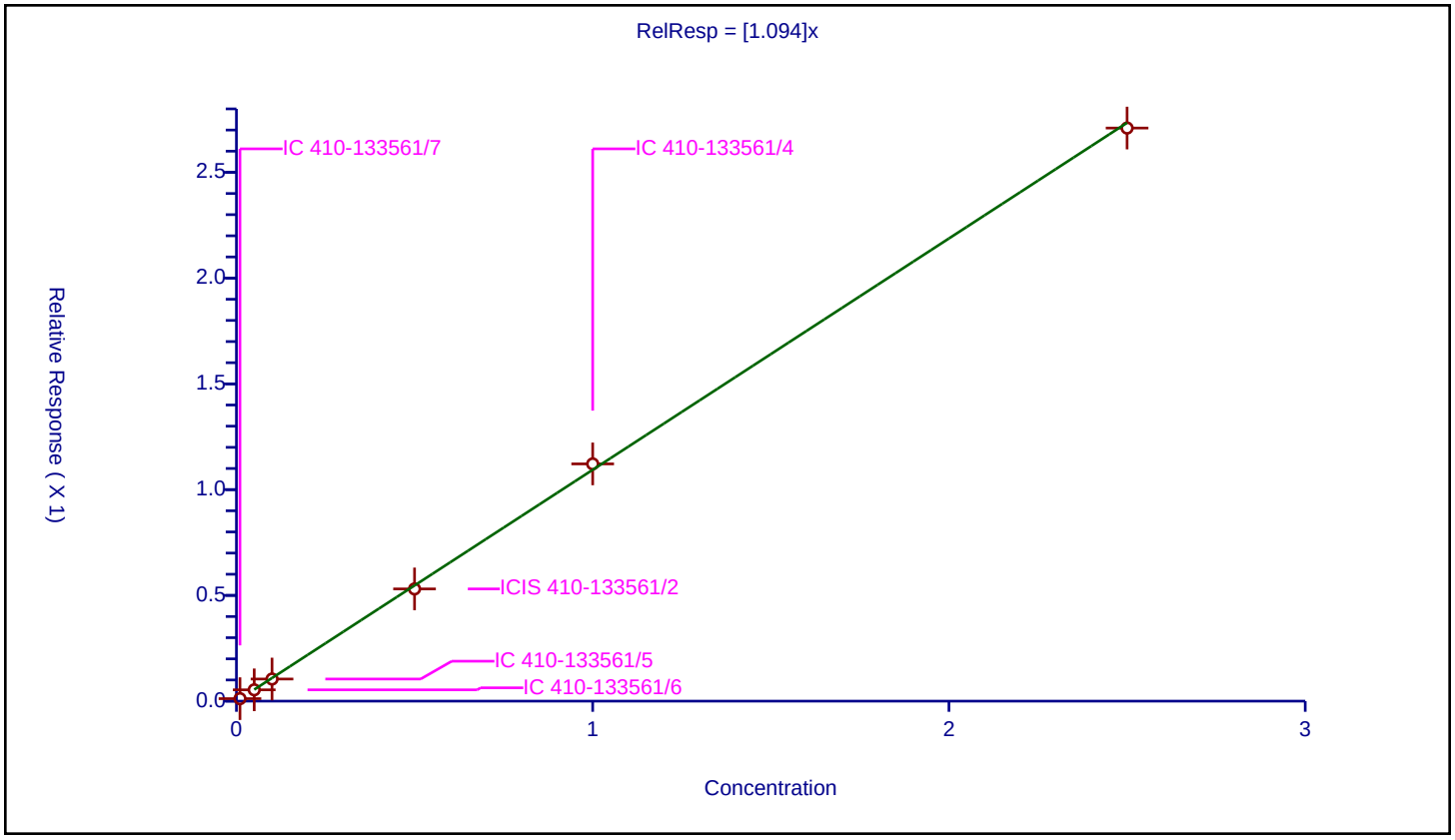
Curve Coefficients

Intercept:	0
Slope:	1.094

Error Coefficients

Standard Error:	156000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.011804	0.25	25923.0	1.180419	Y
2	IC 410-133561/6	0.05	0.053496	0.25	25904.0	1.069912	Y
3	IC 410-133561/5	0.1	0.104552	0.25	29007.0	1.045523	Y
4	ICIS 410-133561/2	0.5	0.530507	0.25	31042.0	1.061014	Y
5	IC 410-133561/4	1.0	1.121623	0.25	30422.0	1.121623	Y
6	IC 410-133561/3	2.5	2.709439	0.25	28987.0	1.083775	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

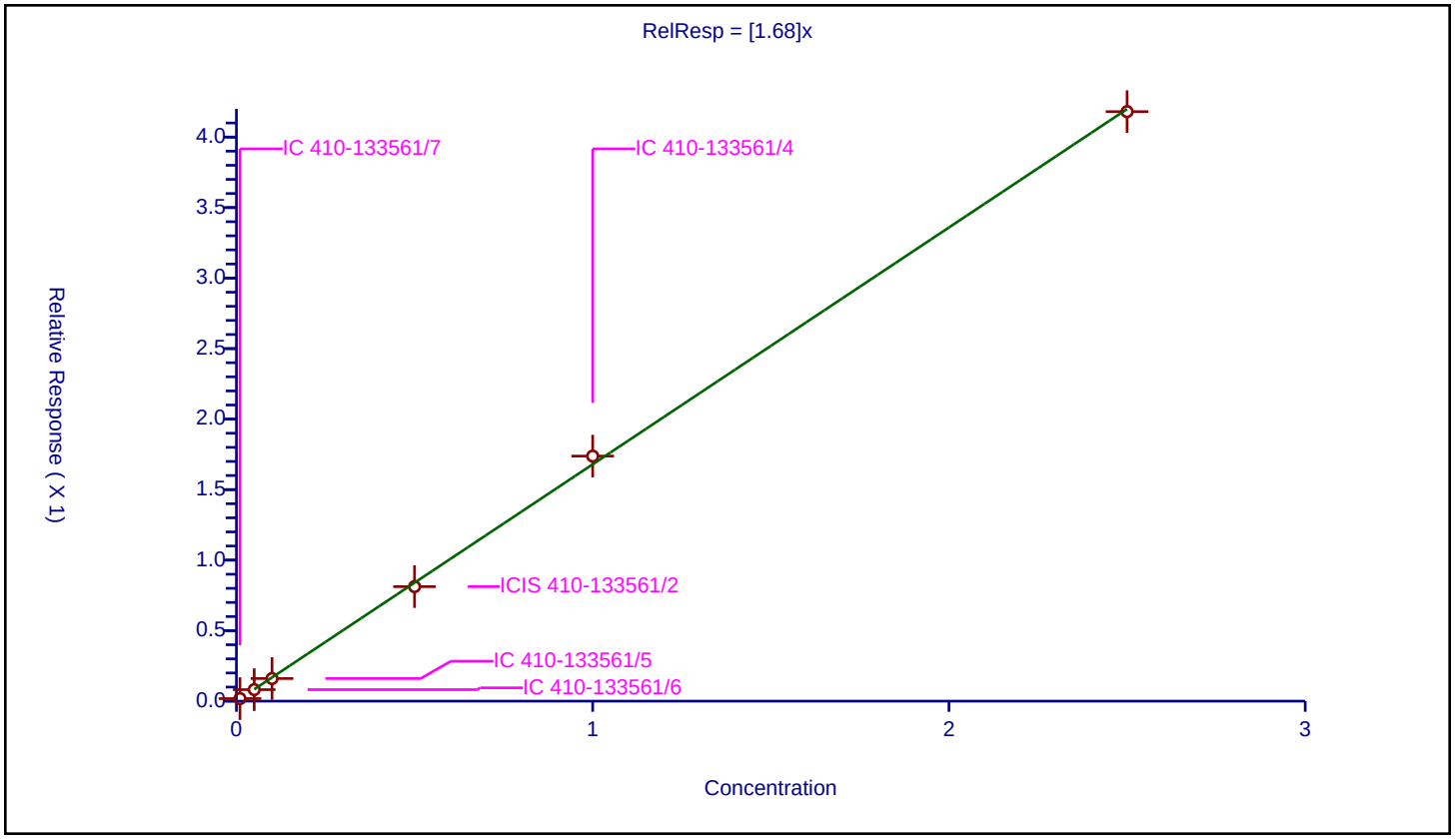
Curve Coefficients

Intercept:	0
Slope:	1.68

Error Coefficients

Standard Error:	241000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.018073	0.25	25923.0	1.807275	Y
2	IC 410-133561/6	0.05	0.08157	0.25	25904.0	1.631408	Y
3	IC 410-133561/5	0.1	0.160401	0.25	29007.0	1.604009	Y
4	ICIS 410-133561/2	0.5	0.812126	0.25	31042.0	1.624251	Y
5	IC 410-133561/4	1.0	1.73783	0.25	30422.0	1.73783	Y
6	IC 410-133561/3	2.5	4.180598	0.25	28987.0	1.672239	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

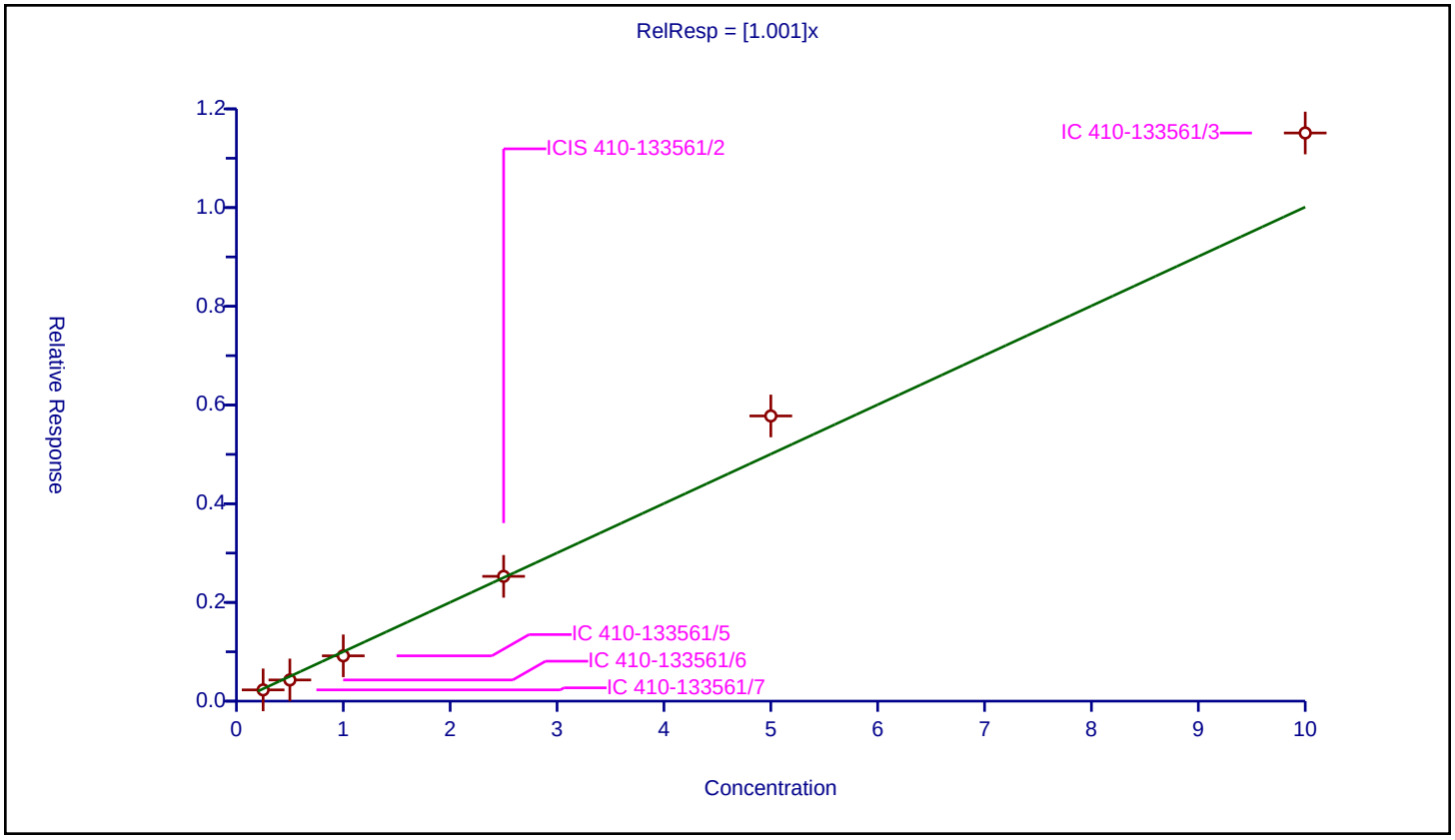
Curve Coefficients

Intercept:	0
Slope:	1.001

Error Coefficients

Standard Error:	691000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.25	0.227925	0.25	25923.0	0.9117	Y
2	IC 410-133561/6	0.5	0.4292	0.25	25904.0	0.8584	Y
3	IC 410-133561/5	1.0	0.918028	0.25	29007.0	0.918028	Y
4	ICIS 410-133561/2	2.5	2.528727	0.25	31042.0	1.011491	Y
5	IC 410-133561/4	5.0	5.778442	0.25	30422.0	1.155688	Y
6	IC 410-133561/3	10.0	11.511712	0.25	28987.0	1.151171	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

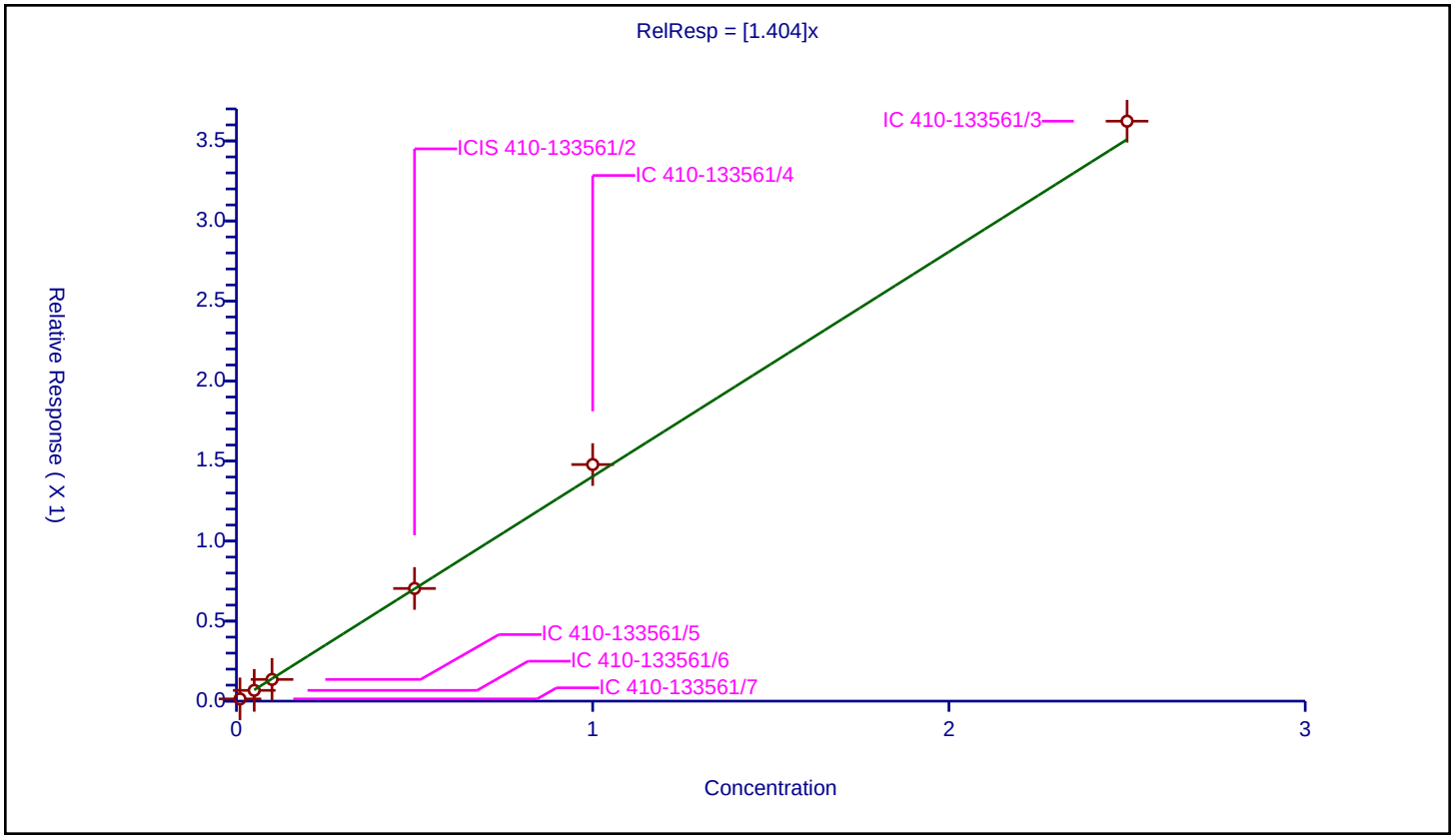
Curve Coefficients

Intercept:	0
Slope:	1.404

Error Coefficients

Standard Error:	208000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.01382	0.25	25923.0	1.381977	Y
2	IC 410-133561/6	0.05	0.067354	0.25	25904.0	1.347089	Y
3	IC 410-133561/5	0.1	0.135769	0.25	29007.0	1.35769	Y
4	ICIS 410-133561/2	0.5	0.703974	0.25	31042.0	1.407947	Y
5	IC 410-133561/4	1.0	1.4781	0.25	30422.0	1.4781	Y
6	IC 410-133561/3	2.5	3.623297	0.25	28987.0	1.449319	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

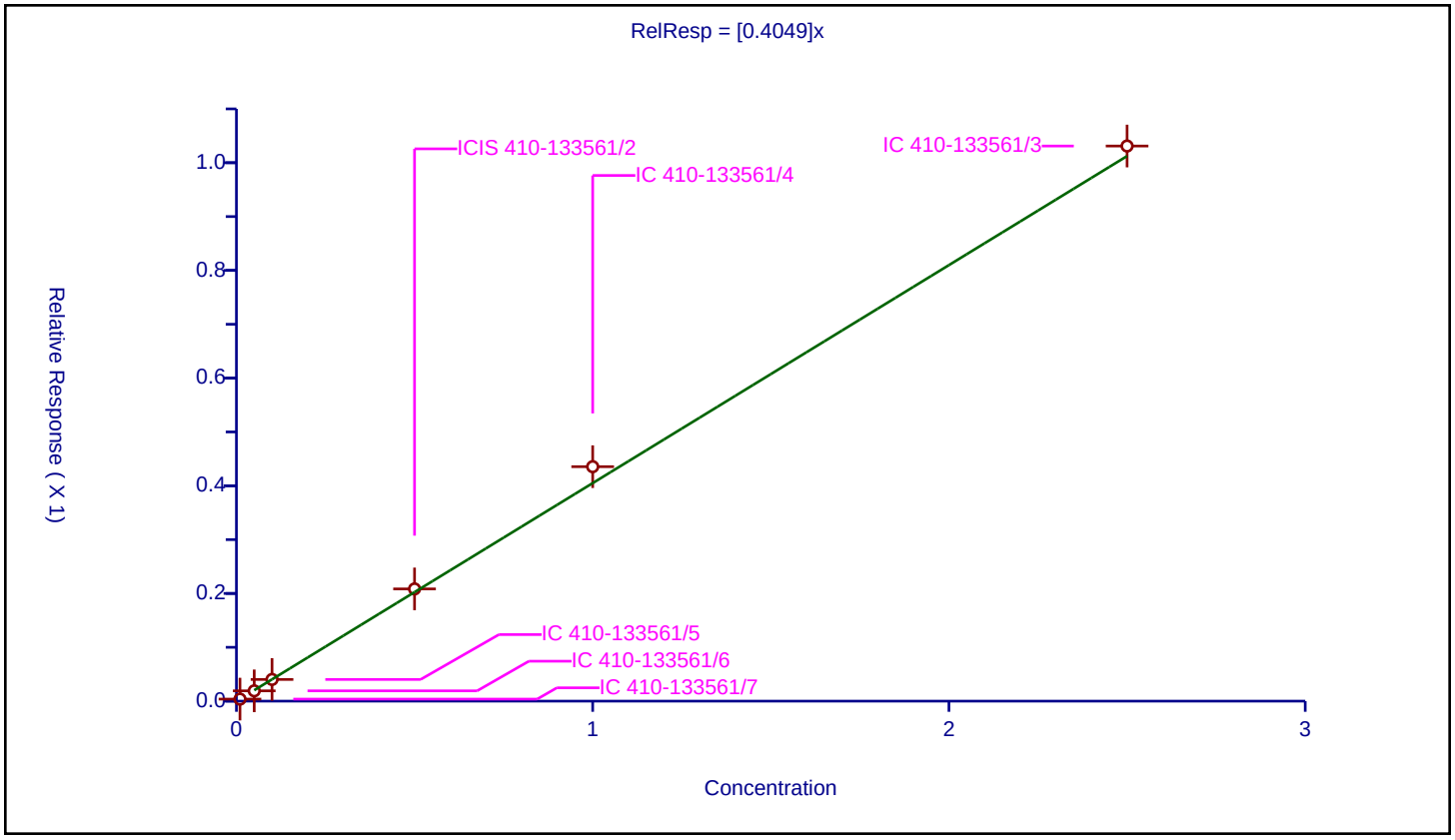
Curve Coefficients

Intercept:	0
Slope:	0.4049

Error Coefficients

Standard Error:	131000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.003798	0.25	54640.0	0.379758	Y
2	IC 410-133561/6	0.05	0.019121	0.25	55043.0	0.382428	Y
3	IC 410-133561/5	0.1	0.040271	0.25	61720.0	0.402706	Y
4	ICIS 410-133561/2	0.5	0.208434	0.25	64866.0	0.416867	Y
5	IC 410-133561/4	1.0	0.435468	0.25	65375.0	0.435468	Y
6	IC 410-133561/3	2.5	1.031049	0.25	63834.0	0.41242	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

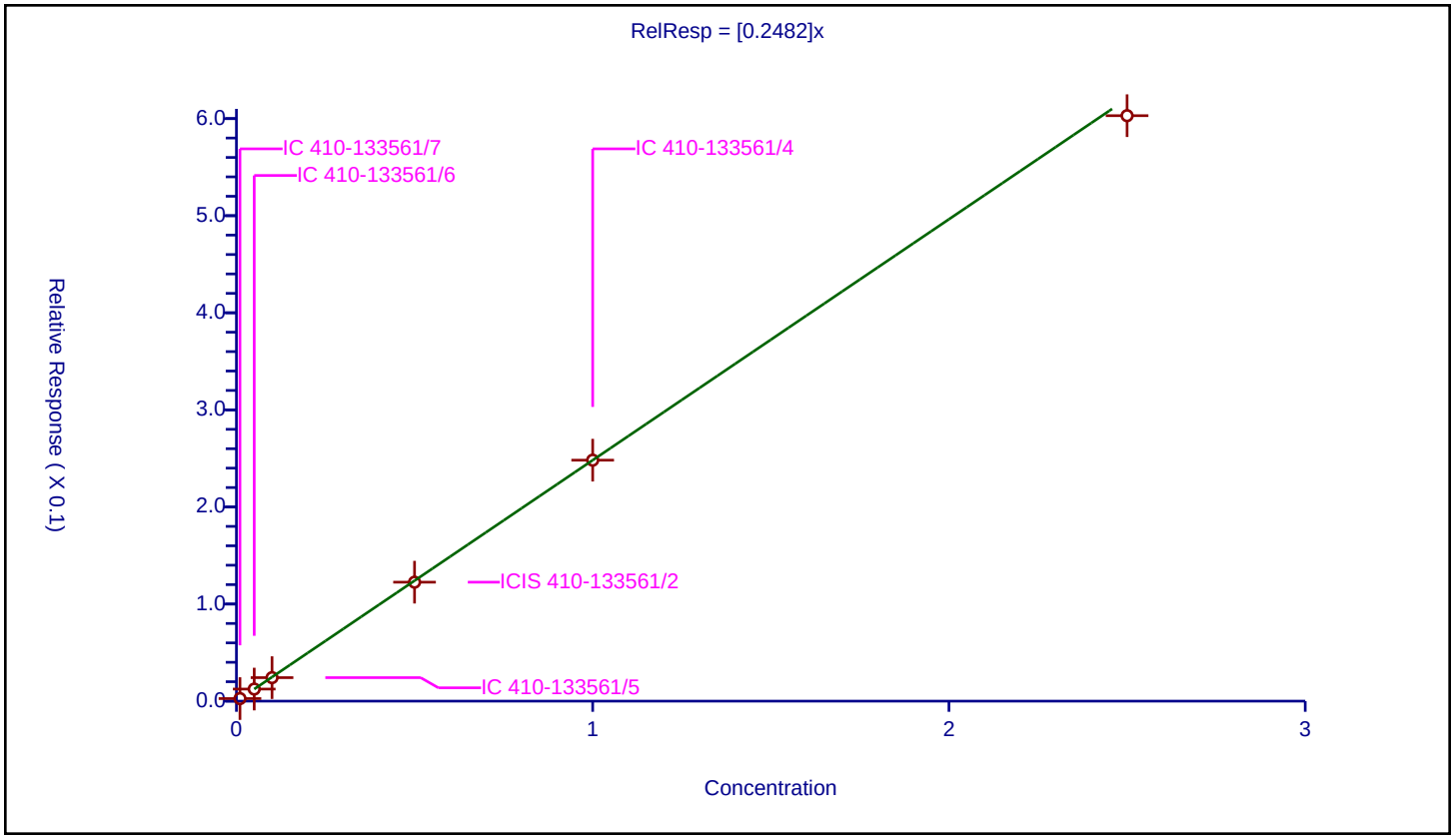
Curve Coefficients

Intercept:	0
Slope:	0.2482

Error Coefficients

Standard Error:	76100
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.002635	0.25	54640.0	0.263543	Y
2	IC 410-133561/6	0.05	0.012449	0.25	55043.0	0.248987	Y
3	IC 410-133561/5	0.1	0.024202	0.25	61720.0	0.24202	Y
4	ICIS 410-133561/2	0.5	0.122526	0.25	64866.0	0.245051	Y
5	IC 410-133561/4	1.0	0.248195	0.25	65375.0	0.248195	Y
6	IC 410-133561/3	2.5	0.603002	0.25	63834.0	0.241201	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

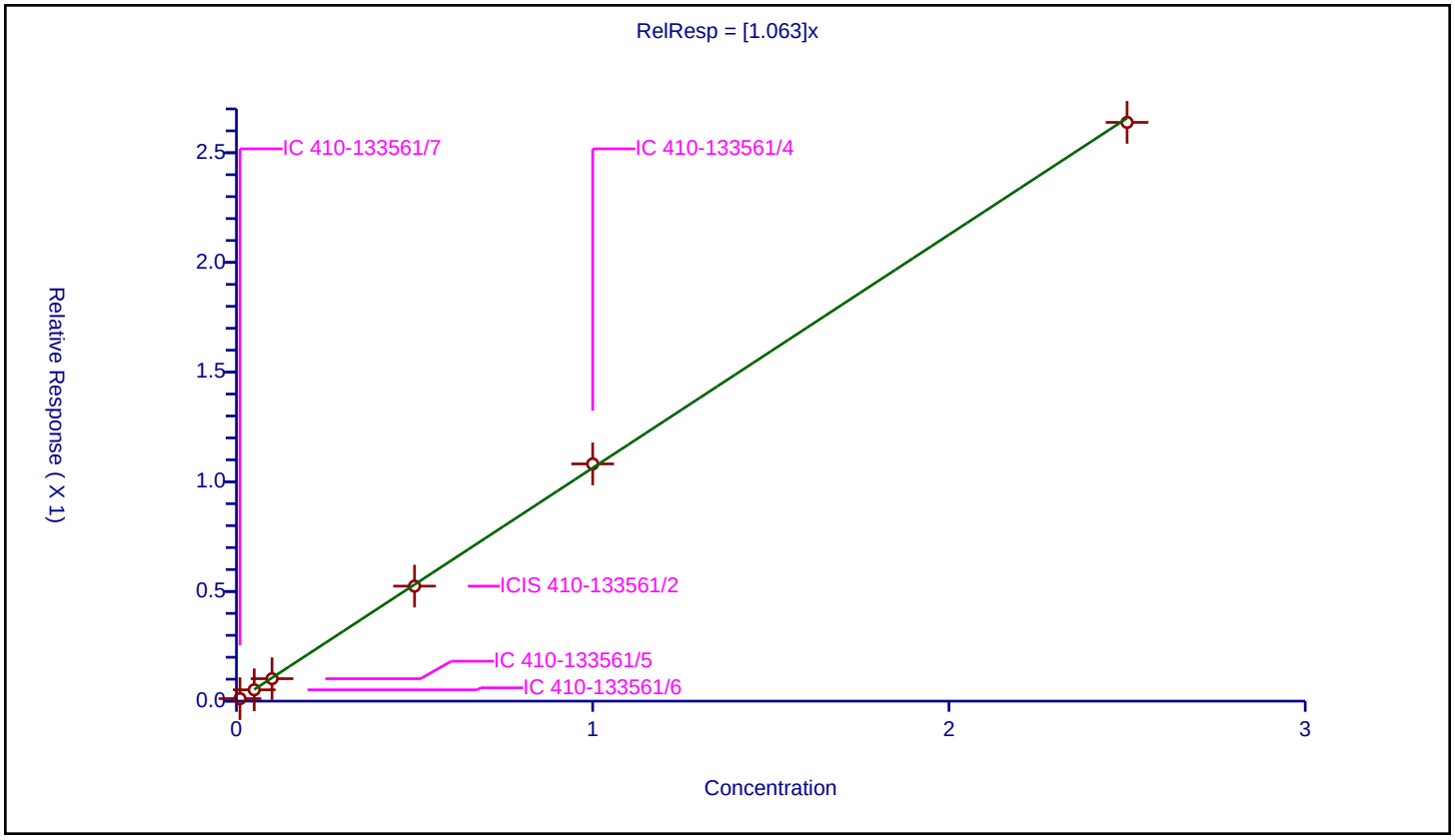
Curve Coefficients

Intercept:	0
Slope:	1.063

Error Coefficients

Standard Error:	333000
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 410-133561/7	0.01	0.011374	0.25	54640.0	1.137445	Y
2	IC 410-133561/6	0.05	0.051678	0.25	55043.0	1.033556	Y
3	IC 410-133561/5	0.1	0.102252	0.25	61720.0	1.022521	Y
4	ICIS 410-133561/2	0.5	0.524312	0.25	64866.0	1.048623	Y
5	IC 410-133561/4	1.0	1.081579	0.25	65375.0	1.081579	Y
6	IC 410-133561/3	2.5	2.638523	0.25	63834.0	1.055409	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

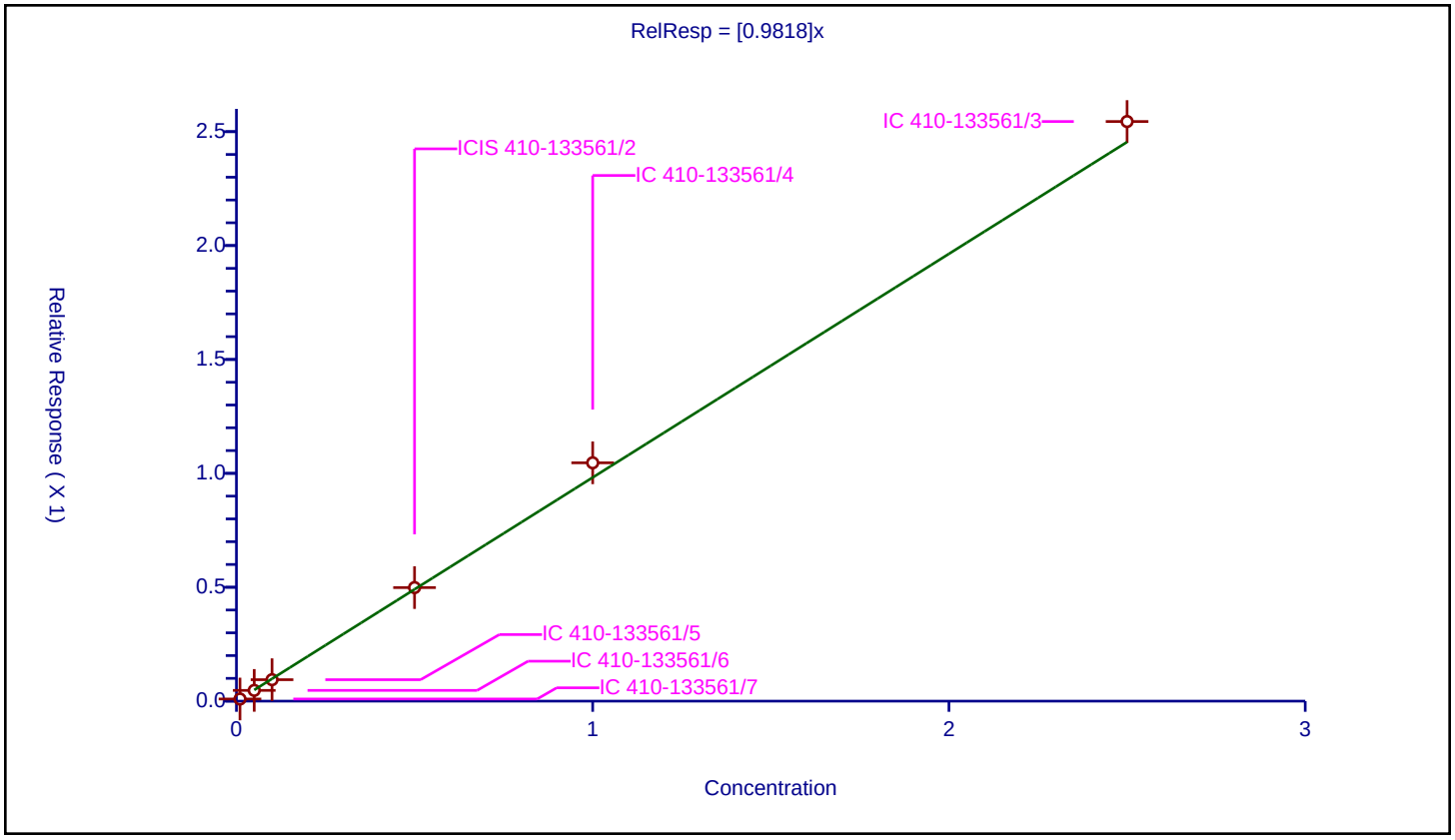
Curve Coefficients

Intercept:	0
Slope:	0.9818

Error Coefficients

Standard Error:	321000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.009434	0.25	54640.0	0.943448	Y
2	IC 410-133561/6	0.05	0.047231	0.25	55043.0	0.944625	Y
3	IC 410-133561/5	0.1	0.094175	0.25	61720.0	0.941753	Y
4	ICIS 410-133561/2	0.5	0.498551	0.25	64866.0	0.997102	Y
5	IC 410-133561/4	1.0	1.046264	0.25	65375.0	1.046264	Y
6	IC 410-133561/3	2.5	2.544549	0.25	63834.0	1.01782	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

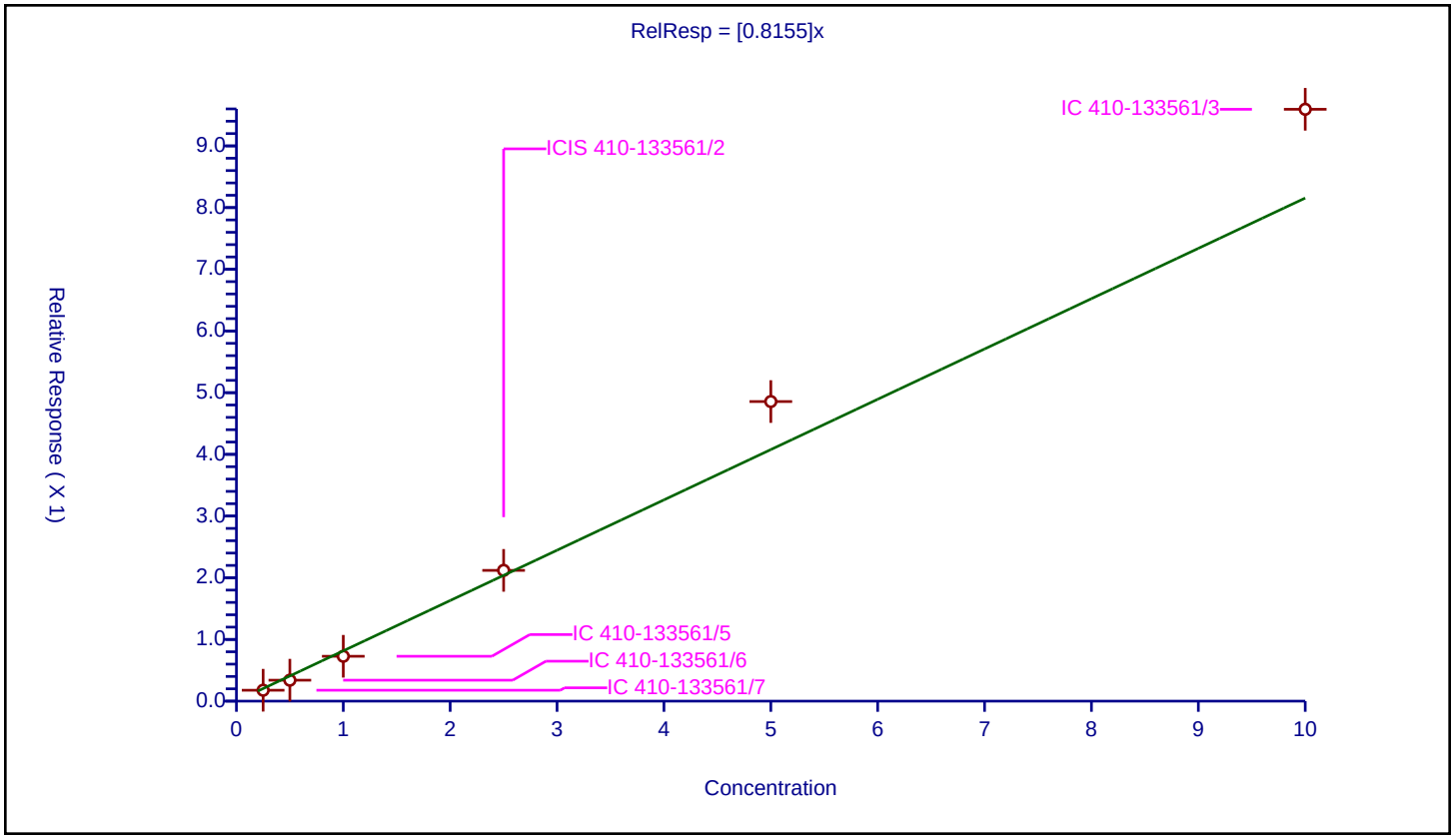
Curve Coefficients

Intercept:	0
Slope:	0.8155

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	15.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.25	0.17694	0.25	54640.0	0.70776	Y
2	IC 410-133561/6	0.5	0.33973	0.25	55043.0	0.67946	Y
3	IC 410-133561/5	1.0	0.727224	0.25	61720.0	0.727224	Y
4	ICIS 410-133561/2	2.5	2.119477	0.25	64866.0	0.847791	Y
5	IC 410-133561/4	5.0	4.856176	0.25	65375.0	0.971235	Y
6	IC 410-133561/3	10.0	9.593563	0.25	63834.0	0.959356	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

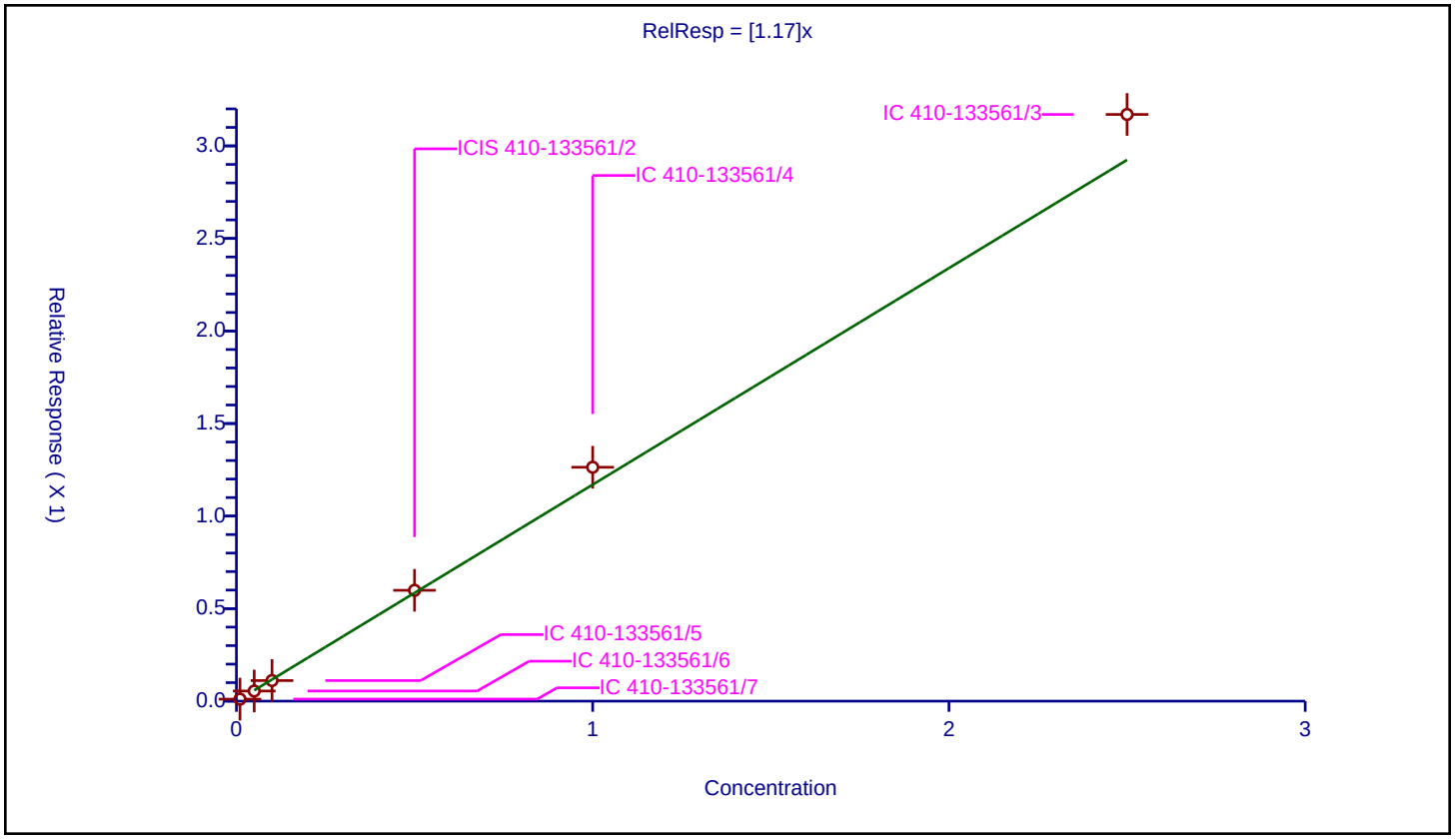
Curve Coefficients

Intercept:	0
Slope:	1.17

Error Coefficients

Standard Error:	397000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.010839	0.25	54640.0	1.083913	Y
2	IC 410-133561/6	0.05	0.054698	0.25	55043.0	1.093963	Y
3	IC 410-133561/5	0.1	0.111171	0.25	61720.0	1.111714	Y
4	ICIS 410-133561/2	0.5	0.598838	0.25	64866.0	1.197677	Y
5	IC 410-133561/4	1.0	1.263679	0.25	65375.0	1.263679	Y
6	IC 410-133561/3	2.5	3.169886	0.25	63834.0	1.267954	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

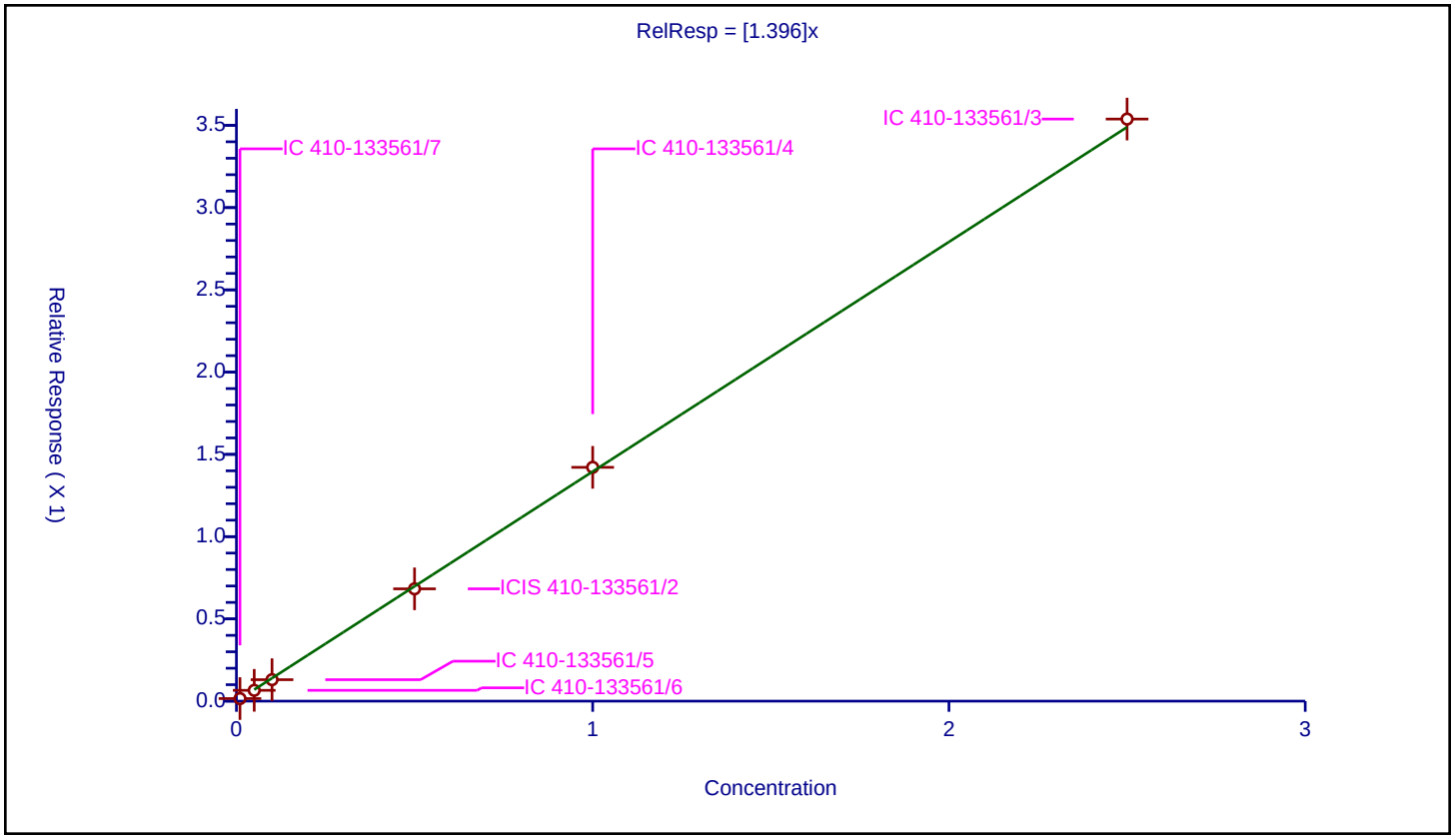
Curve Coefficients

Intercept:	0
Slope:	1.396

Error Coefficients

Standard Error:	444000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.015552	0.25	54640.0	1.555179	Y
2	IC 410-133561/6	0.05	0.065621	0.25	55043.0	1.312428	Y
3	IC 410-133561/5	0.1	0.130448	0.25	61720.0	1.30448	Y
4	ICIS 410-133561/2	0.5	0.682669	0.25	64866.0	1.365338	Y
5	IC 410-133561/4	1.0	1.421247	0.25	65375.0	1.421247	Y
6	IC 410-133561/3	2.5	3.538138	0.25	63834.0	1.415255	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

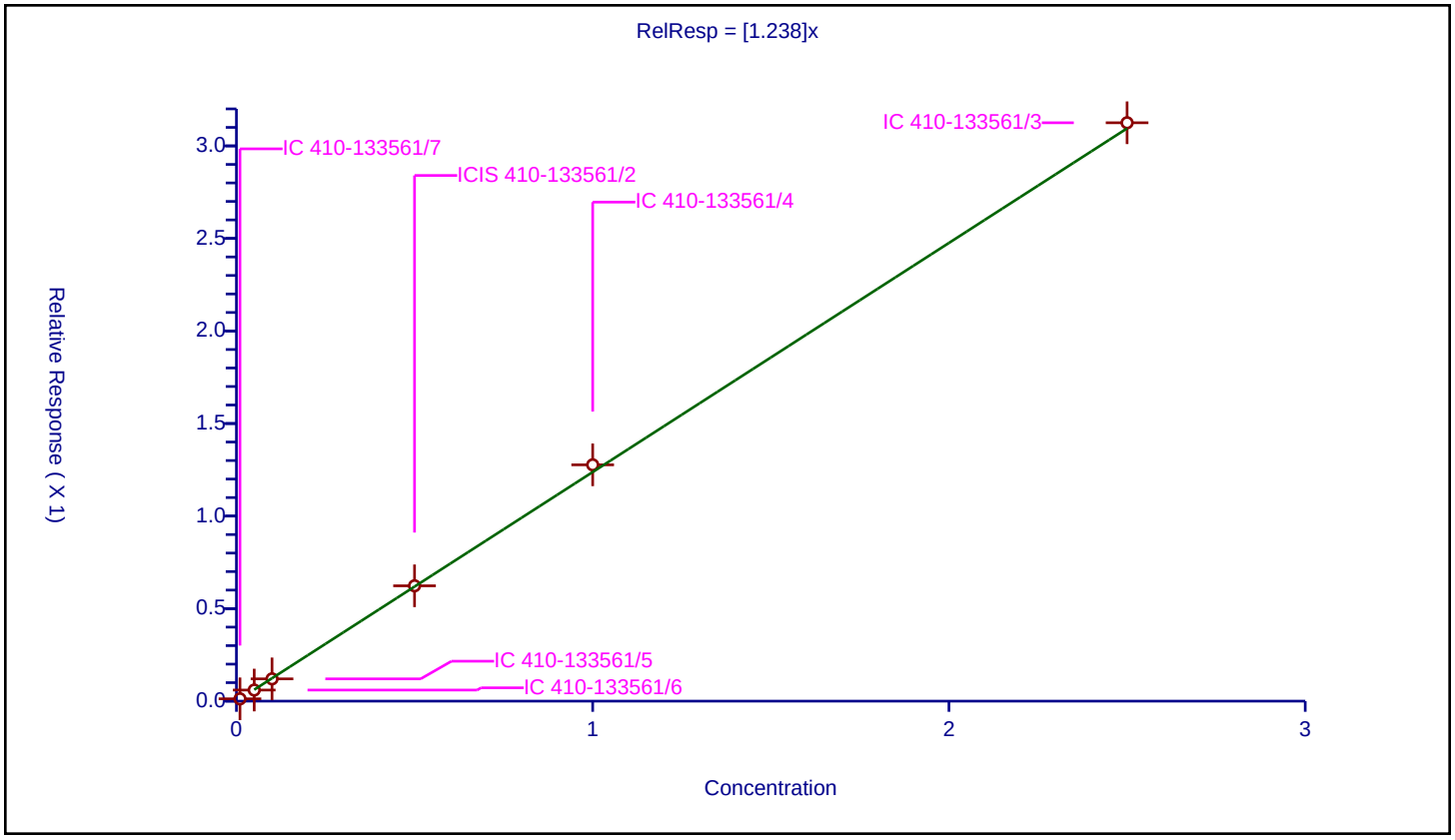
Curve Coefficients

Intercept:	0
Slope:	1.238

Error Coefficients

Standard Error:	470000
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 410-133561/7	0.01	0.012519	0.25	59132.0	1.25186	Y
2	IC 410-133561/6	0.05	0.059897	0.25	60203.0	1.197947	Y
3	IC 410-133561/5	0.1	0.120422	0.25	67741.0	1.204219	Y
4	ICIS 410-133561/2	0.5	0.623235	0.25	73652.0	1.24647	Y
5	IC 410-133561/4	1.0	1.276794	0.25	76127.0	1.276794	Y
6	IC 410-133561/3	2.5	3.12499	0.25	76726.0	1.249996	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

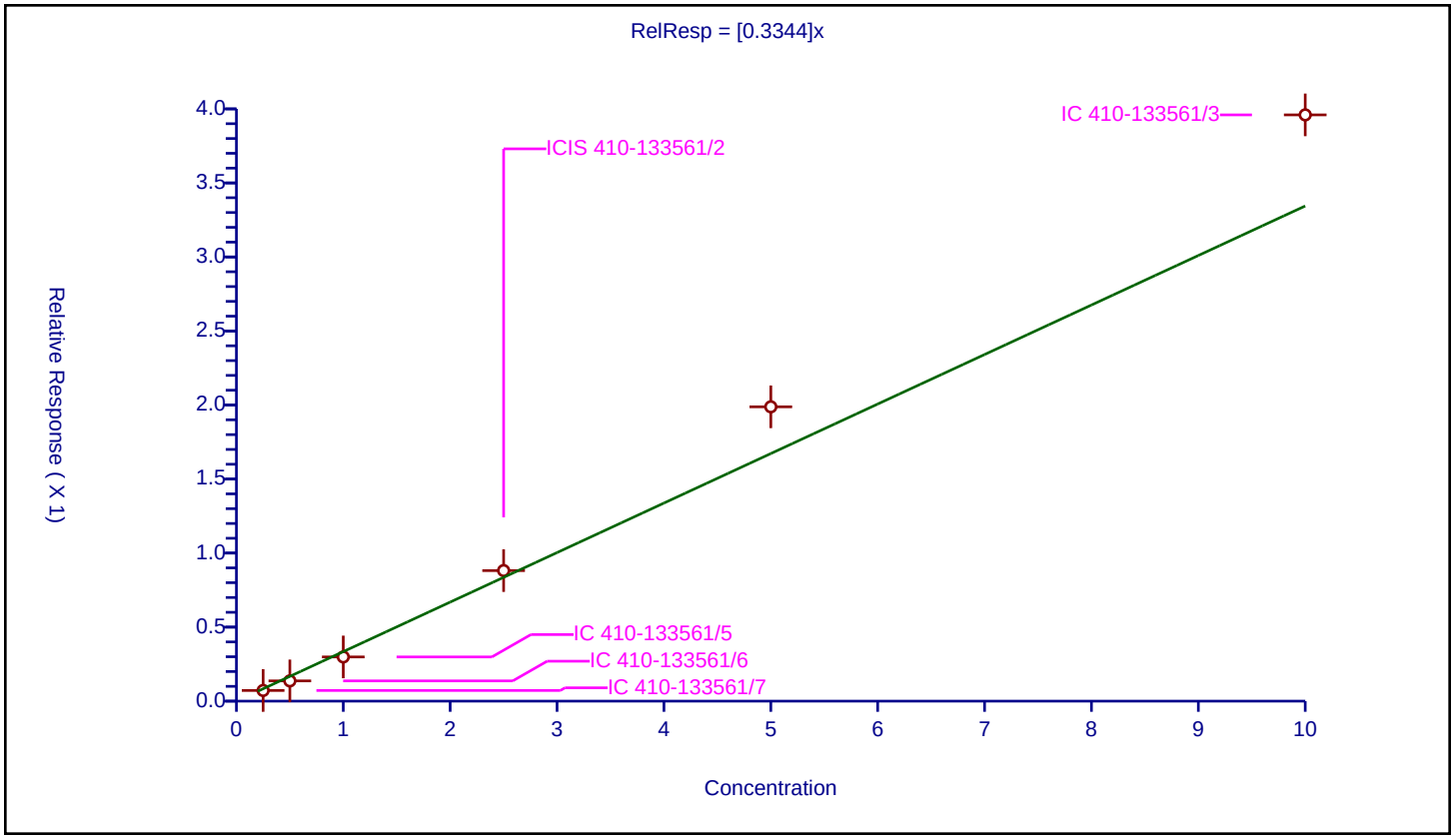
Curve Coefficients

Intercept:	0
Slope:	0.3344

Error Coefficients

Standard Error:	619000
Relative Standard Error:	16.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.25	0.072055	0.25	59132.0	0.28822	Y
2	IC 410-133561/6	0.5	0.136808	0.25	60203.0	0.273616	Y
3	IC 410-133561/5	1.0	0.298464	0.25	67741.0	0.298464	Y
4	ICIS 410-133561/2	2.5	0.881741	0.25	73652.0	0.352696	Y
5	IC 410-133561/4	5.0	1.987869	0.25	76127.0	0.397574	Y
6	IC 410-133561/3	10.0	3.959535	0.25	76726.0	0.395953	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

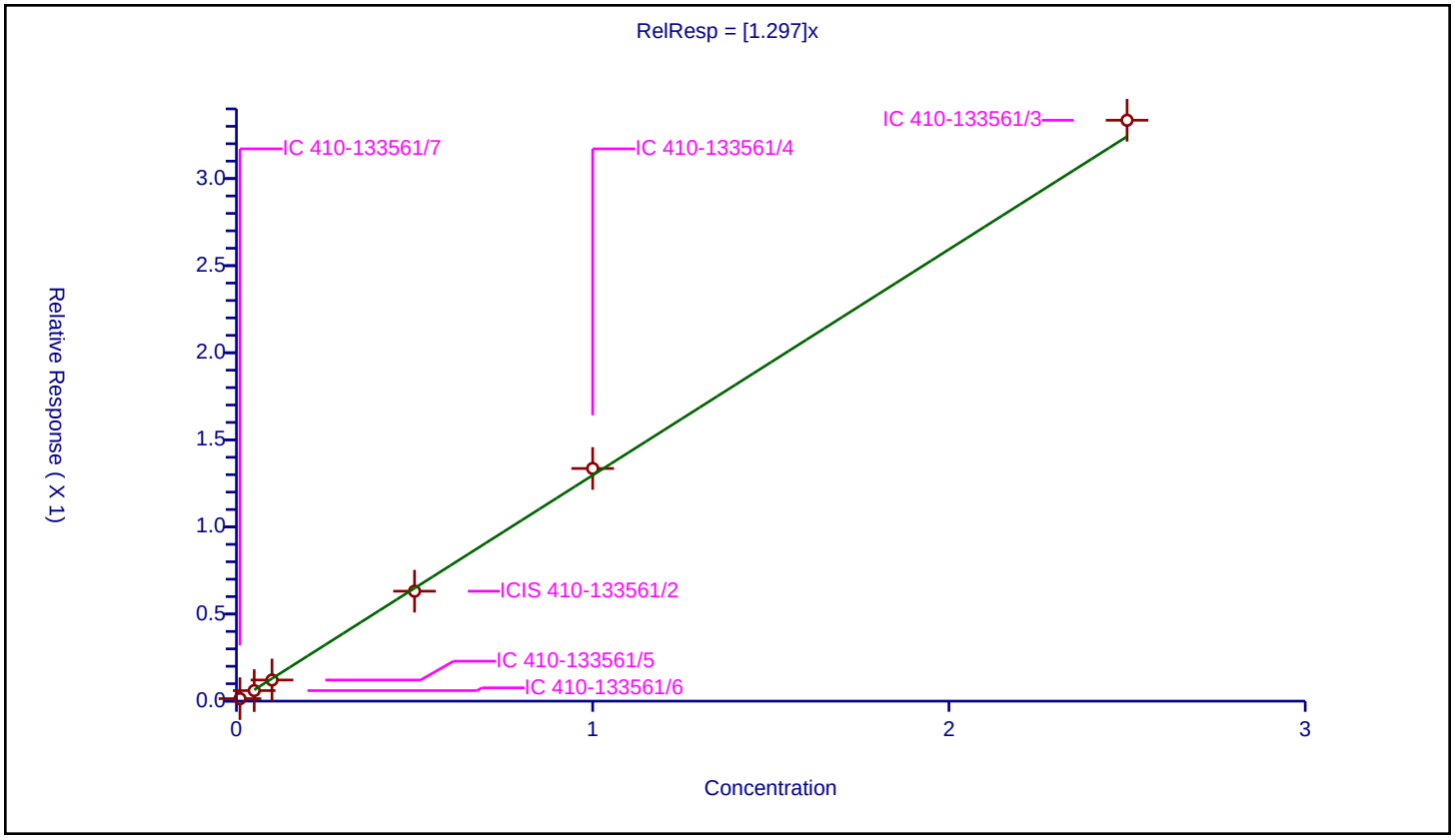
Curve Coefficients

Intercept:	0
Slope:	1.297

Error Coefficients

Standard Error:	500000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.014239	0.25	59132.0	1.423933	Y
2	IC 410-133561/6	0.05	0.060512	0.25	60203.0	1.210239	Y
3	IC 410-133561/5	0.1	0.121322	0.25	67741.0	1.213224	Y
4	ICIS 410-133561/2	0.5	0.63132	0.25	73652.0	1.262641	Y
5	IC 410-133561/4	1.0	1.335692	0.25	76127.0	1.335692	Y
6	IC 410-133561/3	2.5	3.334828	0.25	76726.0	1.333931	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

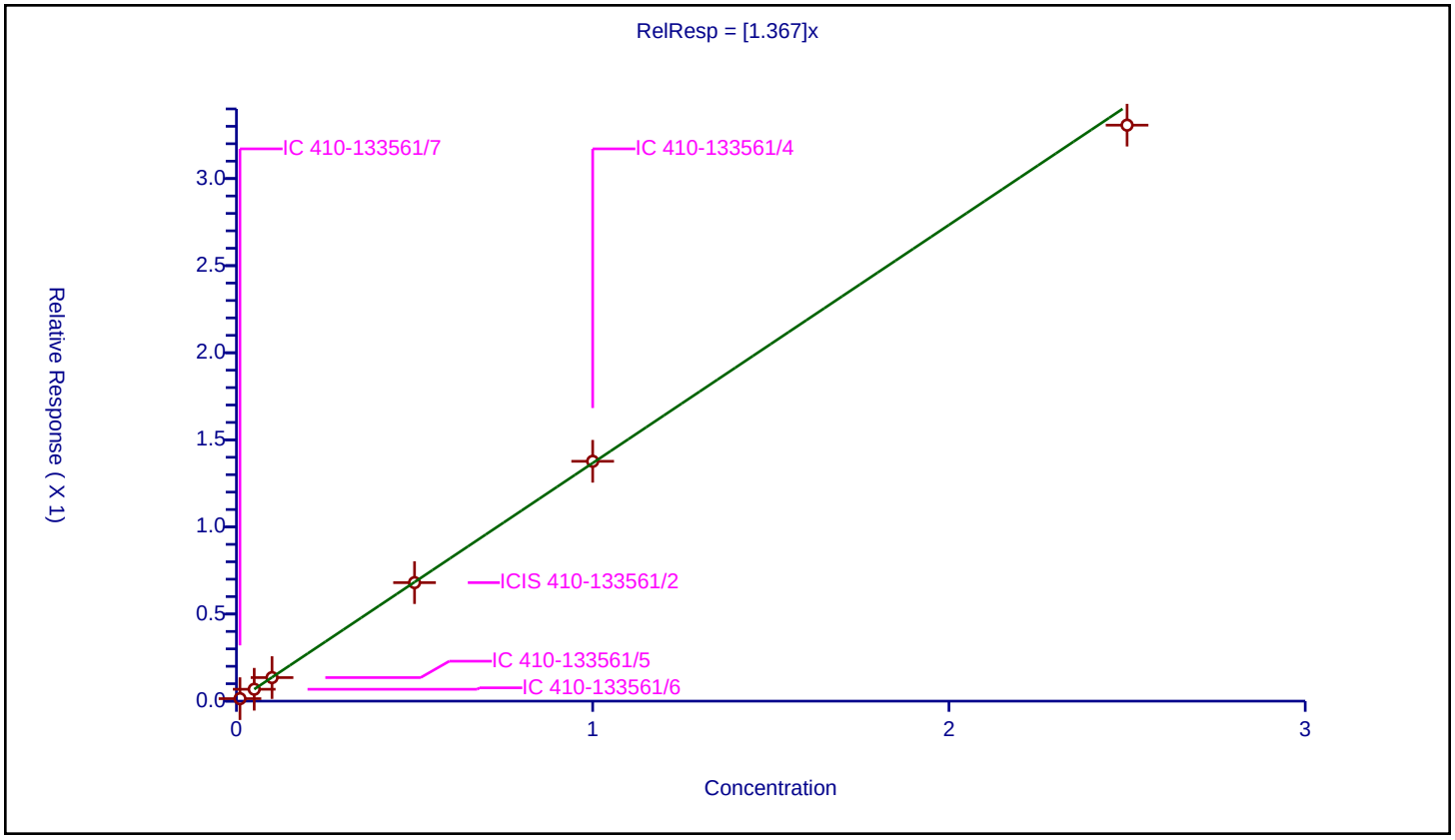
Curve Coefficients

Intercept:	0
Slope:	1.367

Error Coefficients

Standard Error:	500000
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 410-133561/7	0.01	0.014227	0.25	59132.0	1.422665	Y
2	IC 410-133561/6	0.05	0.068298	0.25	60203.0	1.365962	Y
3	IC 410-133561/5	0.1	0.135262	0.25	67741.0	1.352615	Y
4	ICIS 410-133561/2	0.5	0.680348	0.25	73652.0	1.360696	Y
5	IC 410-133561/4	1.0	1.376956	0.25	76127.0	1.376956	Y
6	IC 410-133561/3	2.5	3.306796	0.25	76726.0	1.322719	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

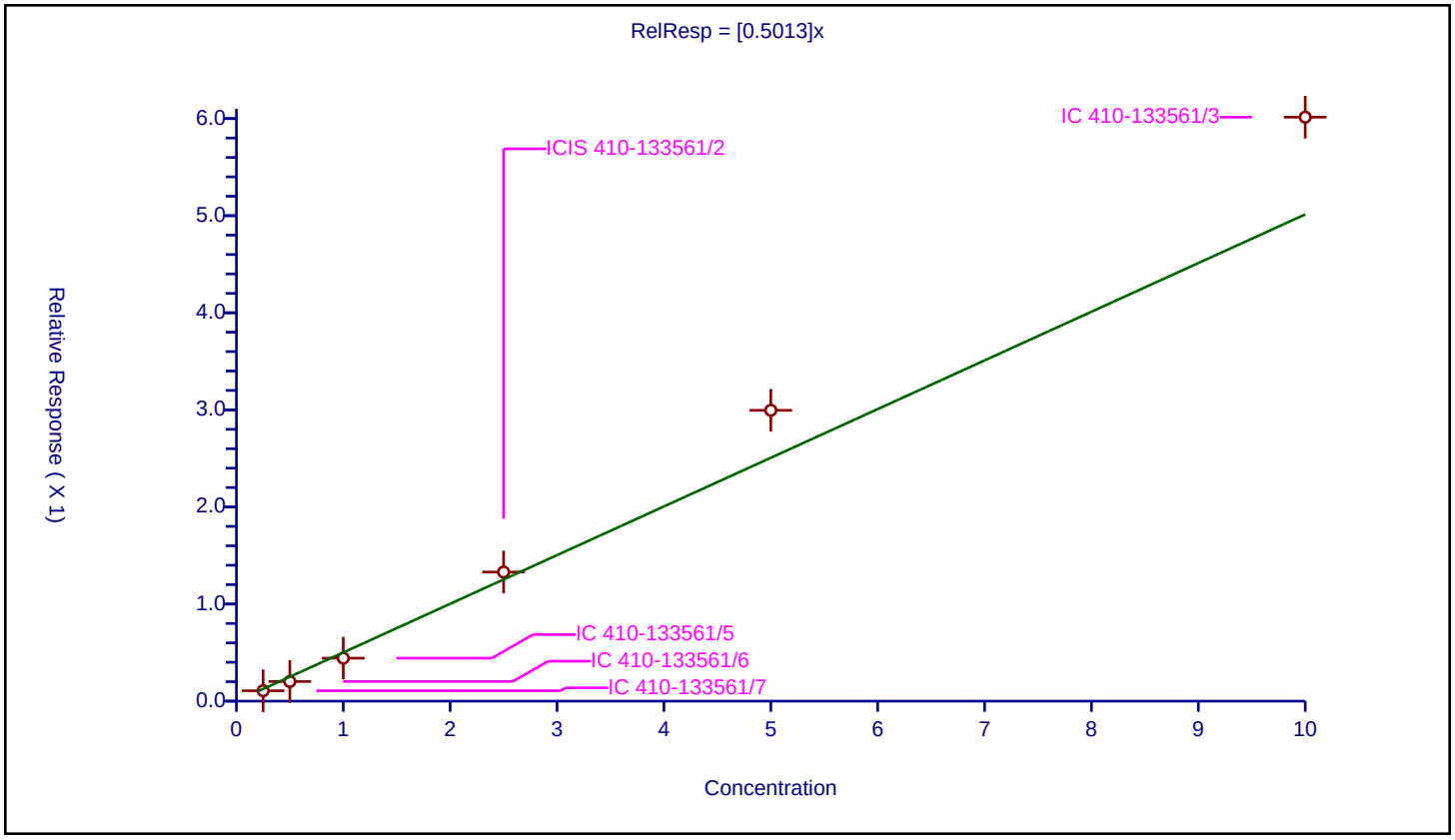
Curve Coefficients

Intercept:	0
Slope:	0.5013

Error Coefficients

Standard Error:	939000
Relative Standard Error:	17.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.25	0.106994	0.25	59132.0	0.427975	Y
2	IC 410-133561/6	0.5	0.202257	0.25	60203.0	0.404515	Y
3	IC 410-133561/5	1.0	0.442996	0.25	67741.0	0.442996	Y
4	ICIS 410-133561/2	2.5	1.329726	0.25	73652.0	0.531891	Y
5	IC 410-133561/4	5.0	2.99556	0.25	76127.0	0.599112	Y
6	IC 410-133561/3	10.0	6.014288	0.25	76726.0	0.601429	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

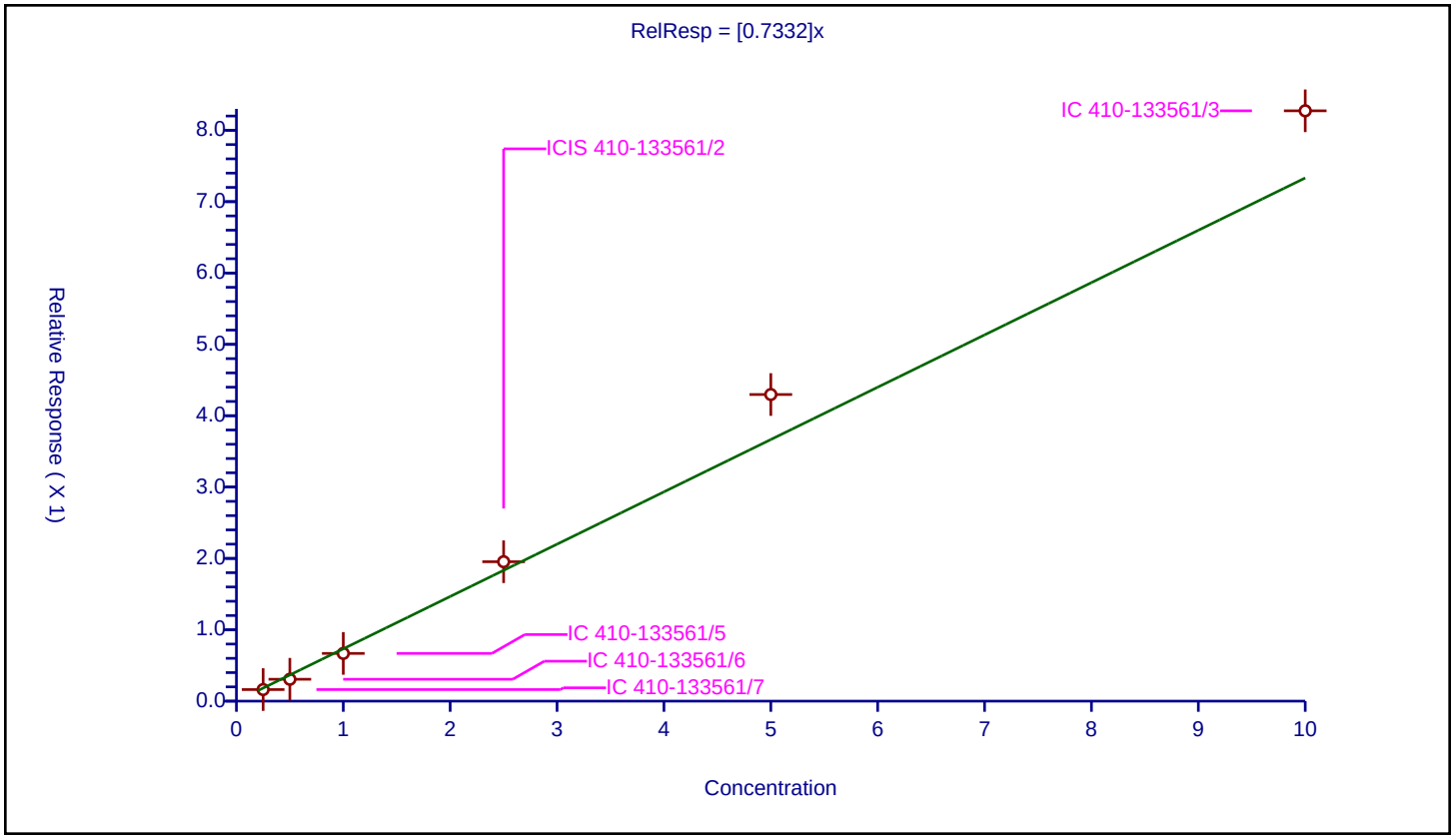
Curve Coefficients

Intercept:	0
Slope:	0.7332

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	14.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.25	0.16232	0.25	66771.0	0.649279	Y
2	IC 410-133561/6	0.5	0.306599	0.25	68376.0	0.613198	Y
3	IC 410-133561/5	1.0	0.668561	0.25	77257.0	0.668561	Y
4	ICIS 410-133561/2	2.5	1.953722	0.25	86651.0	0.781489	Y
5	IC 410-133561/4	5.0	4.297097	0.25	91879.0	0.859419	Y
6	IC 410-133561/3	10.0	8.273139	0.25	97045.0	0.827314	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

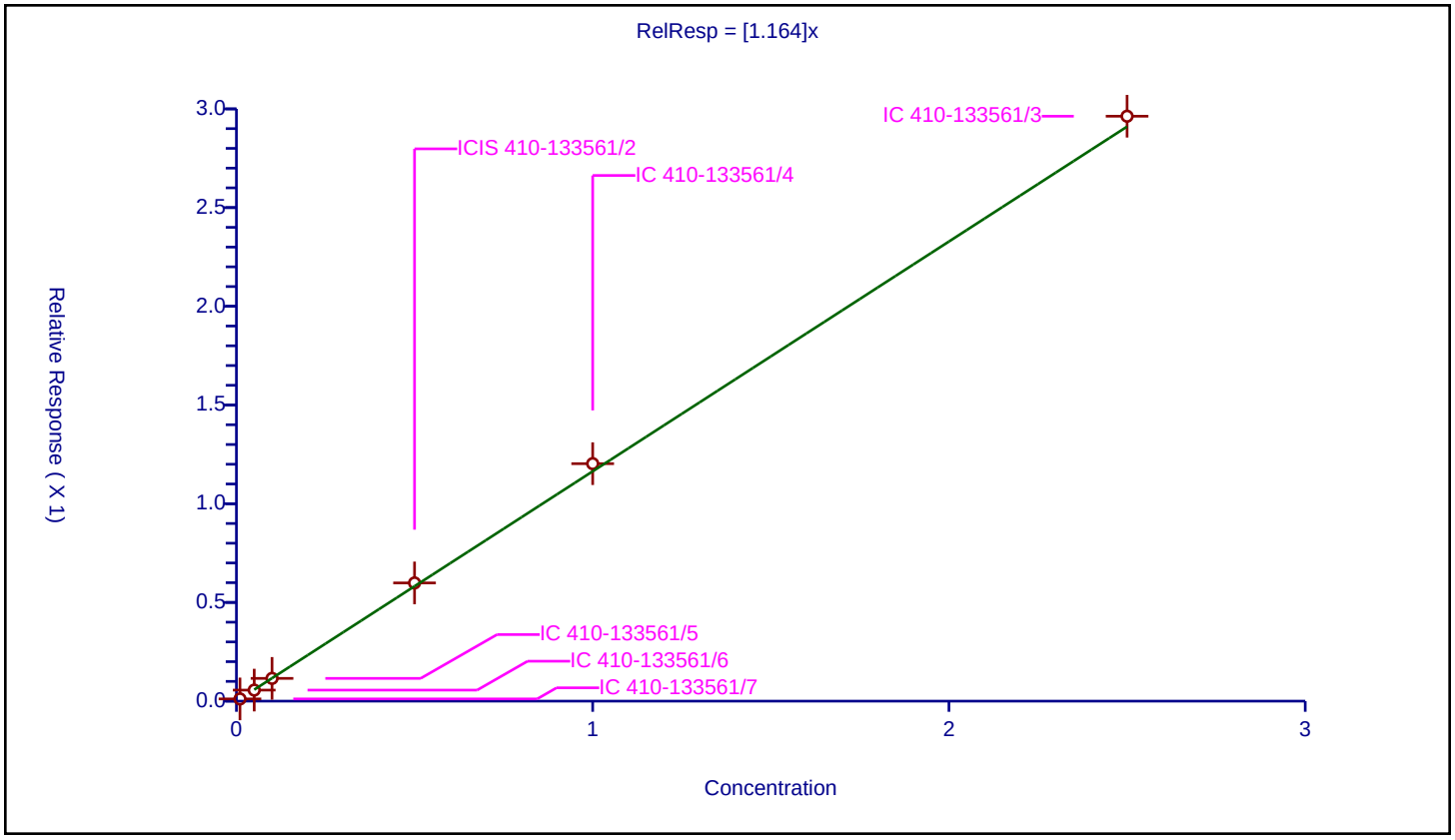
Curve Coefficients

Intercept:	0
Slope:	1.164

Error Coefficients

Standard Error:	559000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.011274	0.25	66771.0	1.127361	Y
2	IC 410-133561/6	0.05	0.055904	0.25	68376.0	1.118082	Y
3	IC 410-133561/5	0.1	0.115339	0.25	77257.0	1.153391	Y
4	ICIS 410-133561/2	0.5	0.598781	0.25	86651.0	1.197563	Y
5	IC 410-133561/4	1.0	1.20296	0.25	91879.0	1.20296	Y
6	IC 410-133561/3	2.5	2.962894	0.25	97045.0	1.185157	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

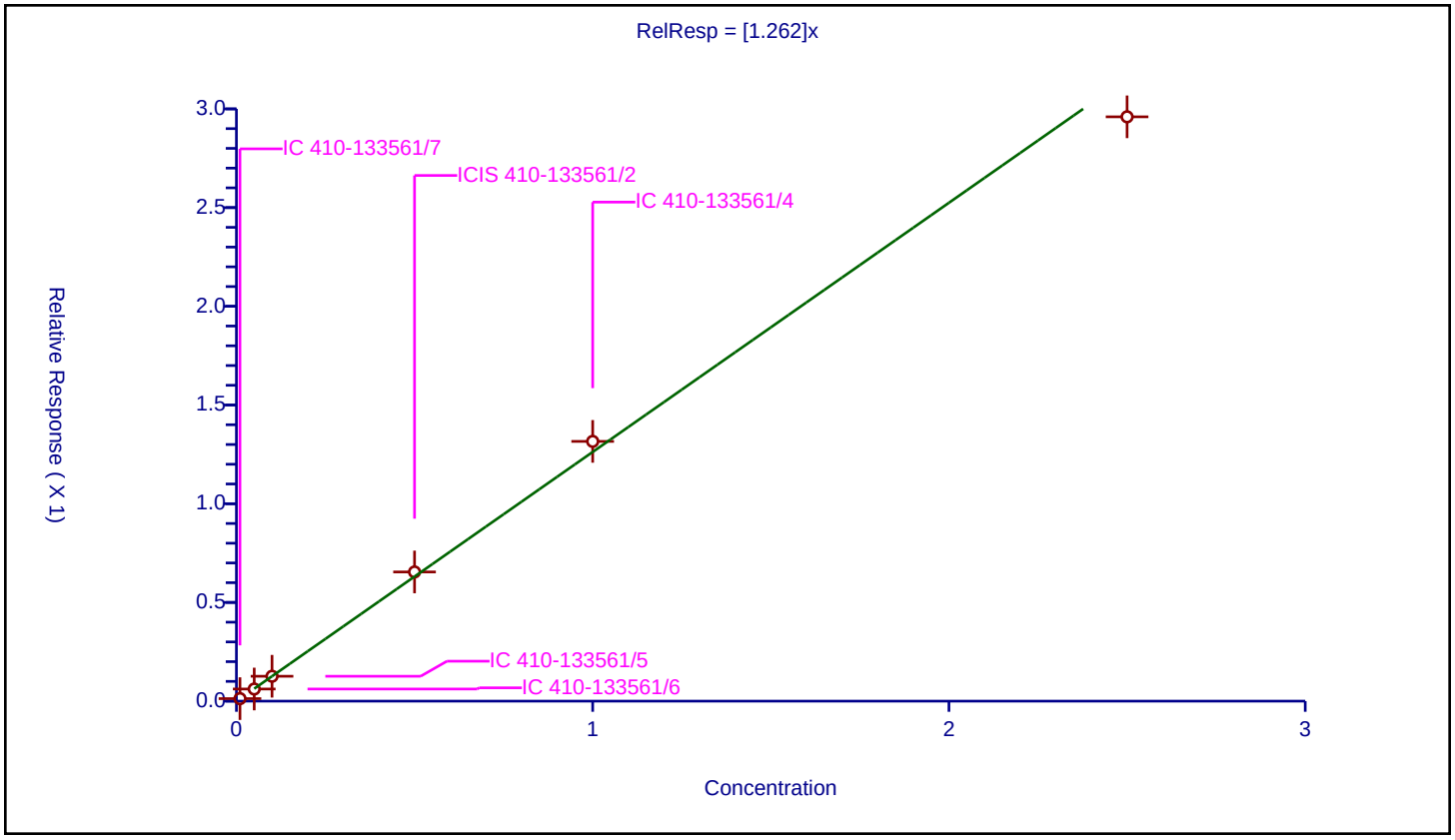
Curve Coefficients

Intercept:	0
Slope:	1.262

Error Coefficients

Standard Error:	567000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.012756	0.25	66771.0	1.275629	Y
2	IC 410-133561/6	0.05	0.06141	0.25	68376.0	1.228209	Y
3	IC 410-133561/5	0.1	0.126086	0.25	77257.0	1.260857	Y
4	ICIS 410-133561/2	0.5	0.654456	0.25	86651.0	1.308912	Y
5	IC 410-133561/4	1.0	1.315779	0.25	91879.0	1.315779	Y
6	IC 410-133561/3	2.5	2.959802	0.25	97045.0	1.183921	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

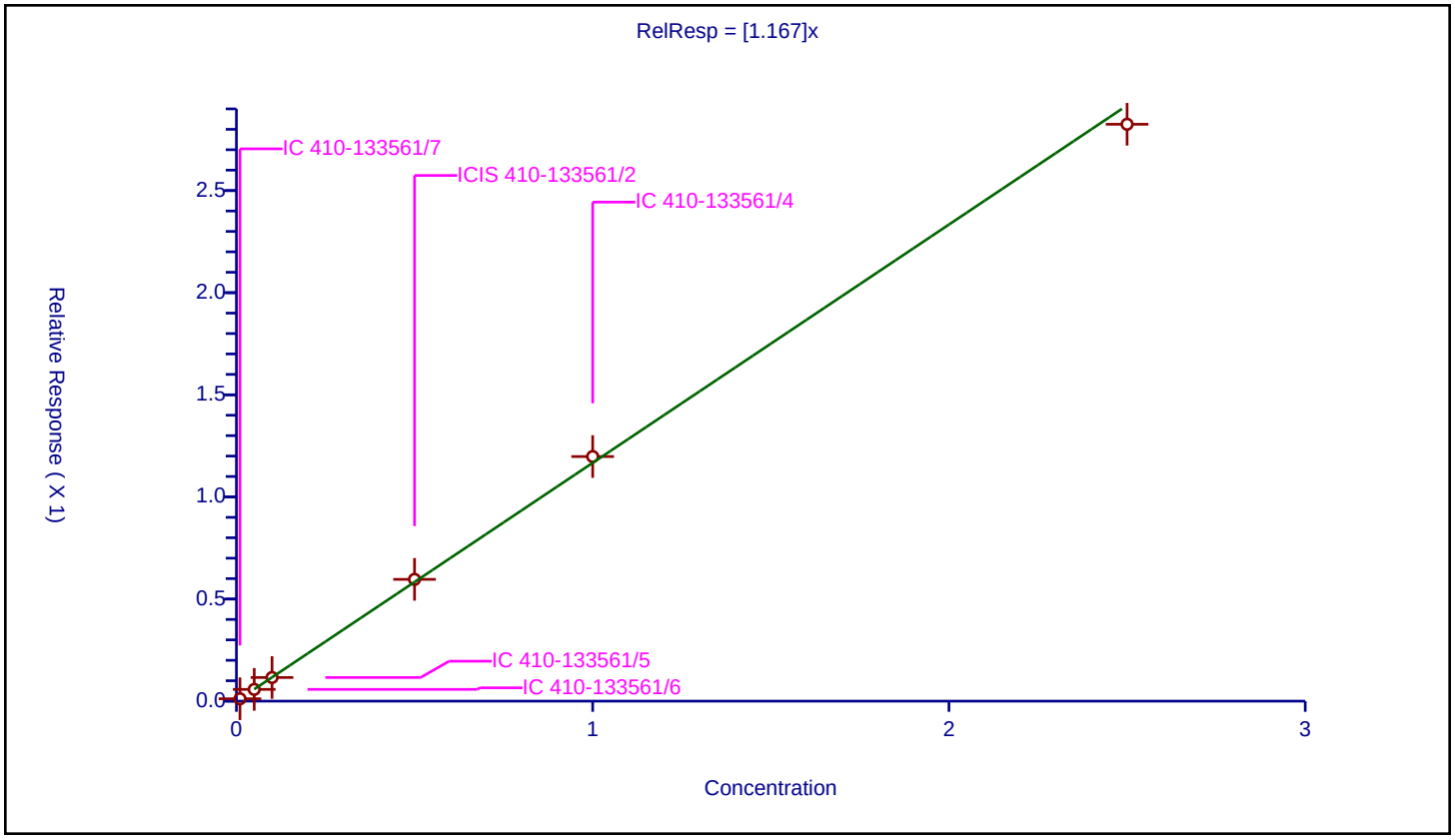
Curve Coefficients

Intercept:	0
Slope:	1.167

Error Coefficients

Standard Error:	537000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.011727	0.25	66771.0	1.172665	Y
2	IC 410-133561/6	0.05	0.057513	0.25	68376.0	1.150257	Y
3	IC 410-133561/5	0.1	0.11576	0.25	77257.0	1.157597	Y
4	ICIS 410-133561/2	0.5	0.596338	0.25	86651.0	1.192675	Y
5	IC 410-133561/4	1.0	1.197703	0.25	91879.0	1.197703	Y
6	IC 410-133561/3	2.5	2.824772	0.25	97045.0	1.129909	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

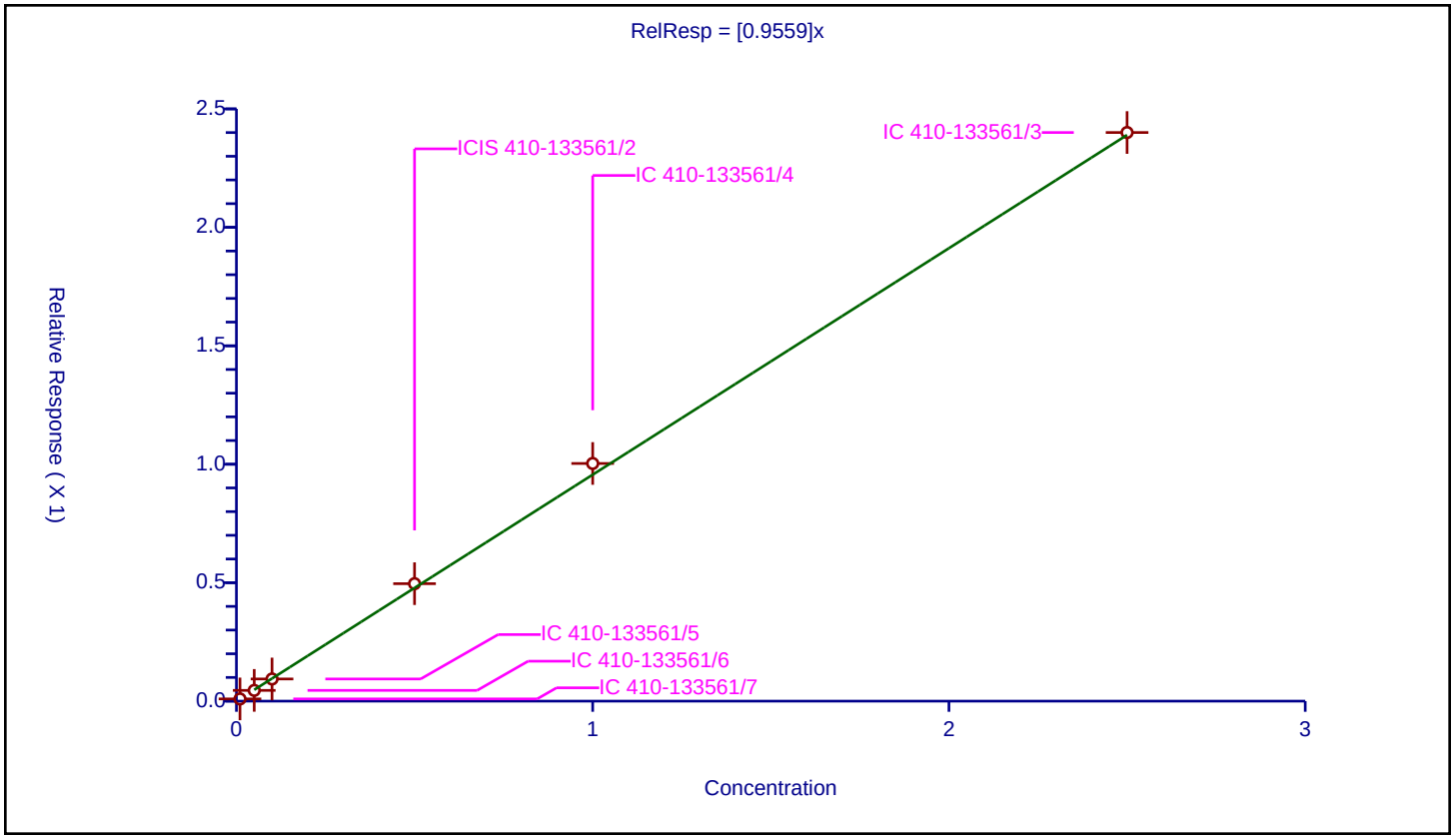
Curve Coefficients

Intercept:	0
Slope:	0.9559

Error Coefficients

Standard Error:	455000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.009383	0.25	66771.0	0.938282	Y
2	IC 410-133561/6	0.05	0.045327	0.25	68376.0	0.906532	Y
3	IC 410-133561/5	0.1	0.093564	0.25	77257.0	0.935643	Y
4	ICIS 410-133561/2	0.5	0.495866	0.25	86651.0	0.991731	Y
5	IC 410-133561/4	1.0	1.003273	0.25	91879.0	1.003273	Y
6	IC 410-133561/3	2.5	2.400255	0.25	97045.0	0.960102	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

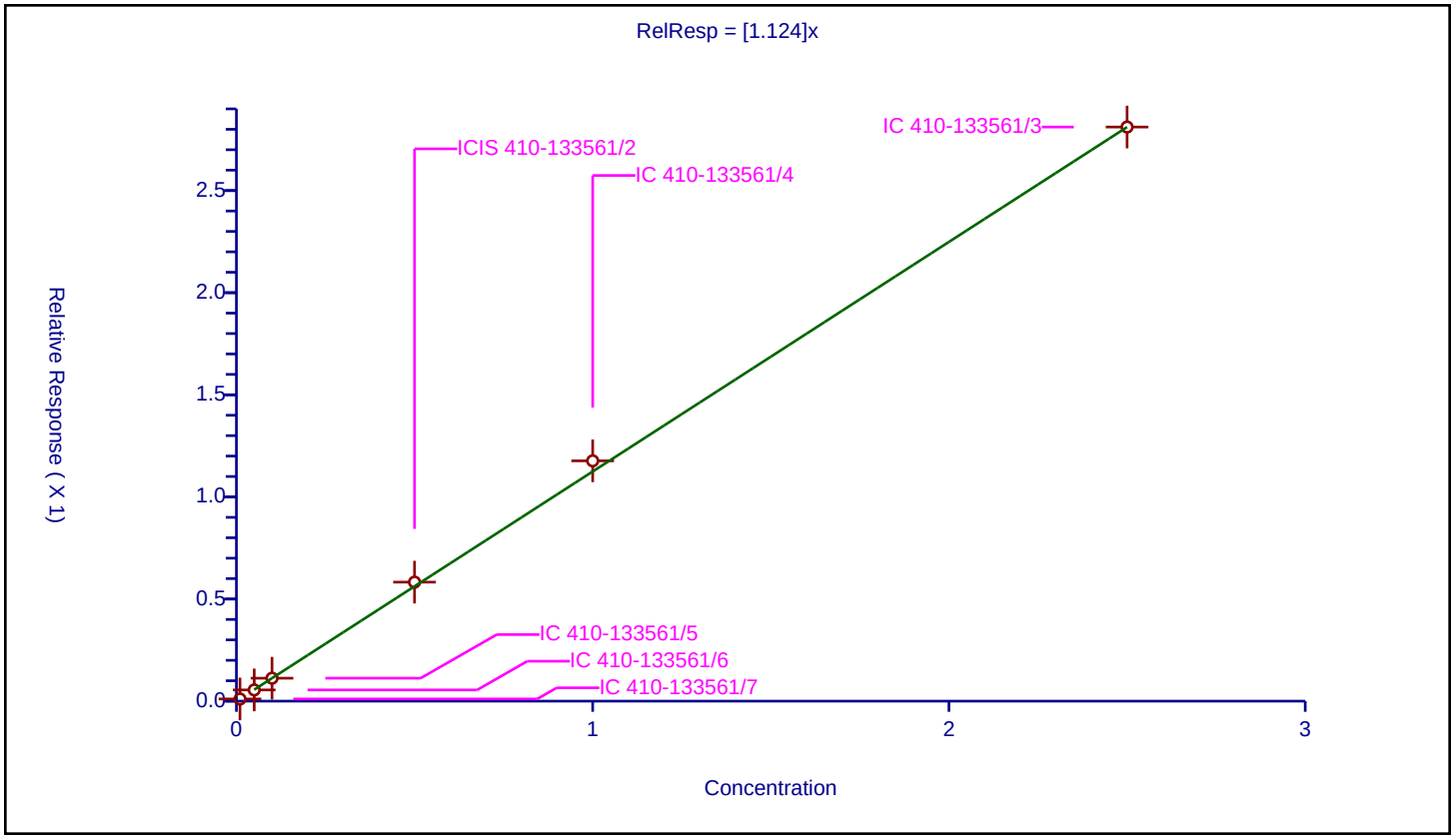
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Standard Error:	533000
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 410-133561/7	0.01	0.010588	0.25	66771.0	1.058843	Y
2	IC 410-133561/6	0.05	0.05484	0.25	68376.0	1.096803	Y
3	IC 410-133561/5	0.1	0.112368	0.25	77257.0	1.123685	Y
4	ICIS 410-133561/2	0.5	0.582803	0.25	86651.0	1.165607	Y
5	IC 410-133561/4	1.0	1.176645	0.25	91879.0	1.176645	Y
6	IC 410-133561/3	2.5	2.811227	0.25	97045.0	1.124491	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

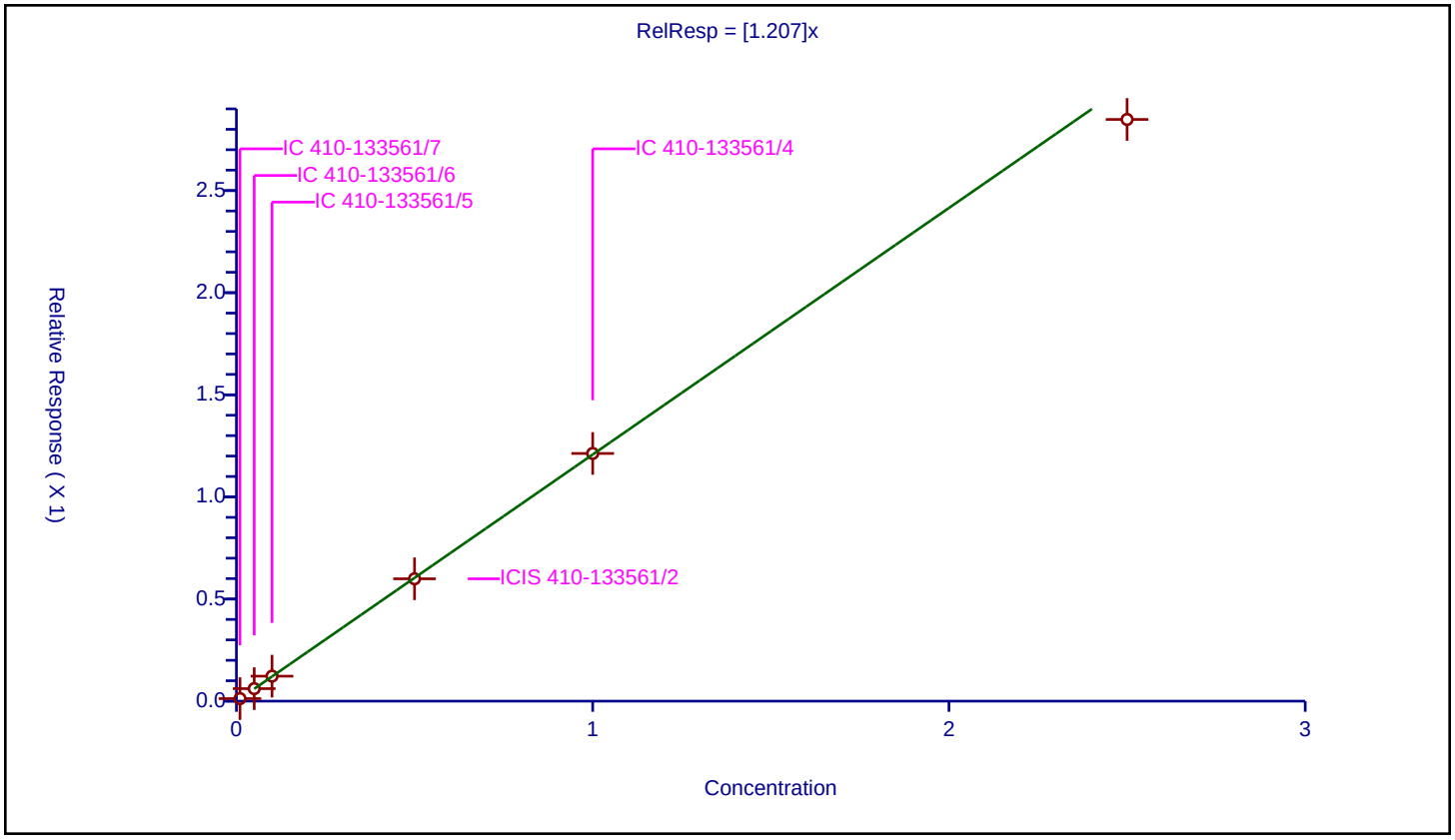
Curve Coefficients

Intercept:	0
Slope:	1.207

Error Coefficients

Standard Error:	541000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.012449	0.25	66771.0	1.244927	Y
2	IC 410-133561/6	0.05	0.061271	0.25	68376.0	1.22543	Y
3	IC 410-133561/5	0.1	0.122416	0.25	77257.0	1.224161	Y
4	ICIS 410-133561/2	0.5	0.599038	0.25	86651.0	1.198076	Y
5	IC 410-133561/4	1.0	1.212859	0.25	91879.0	1.212859	Y
6	IC 410-133561/3	2.5	2.848192	0.25	97045.0	1.139277	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

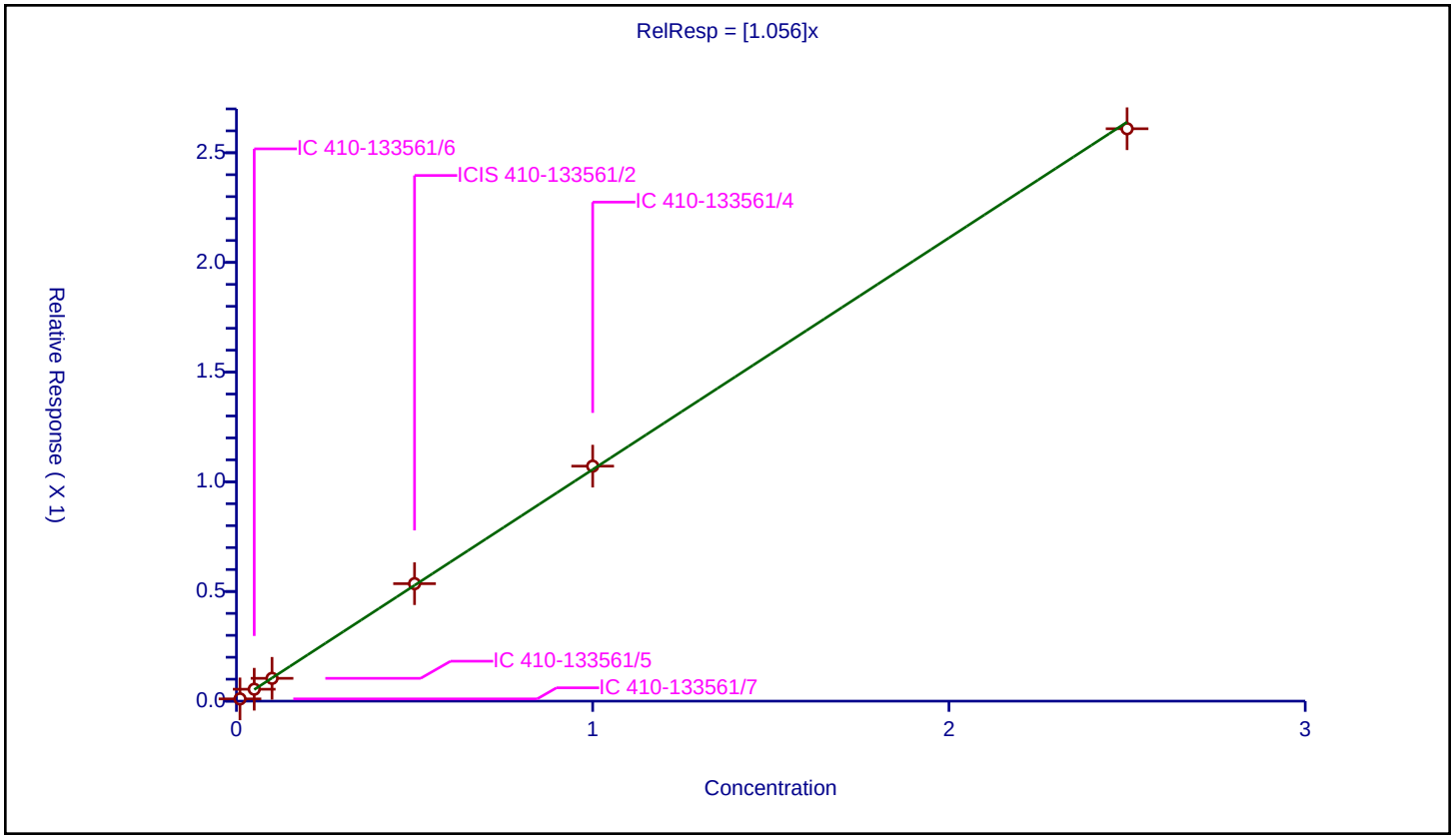
Curve Coefficients

Intercept:	0
Slope:	1.056

Error Coefficients

Standard Error:	493000
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 410-133561/7	0.01	0.010233	0.25	66771.0	1.023274	Y
2	IC 410-133561/6	0.05	0.054328	0.25	68376.0	1.086565	Y
3	IC 410-133561/5	0.1	0.103984	0.25	77257.0	1.039841	Y
4	ICIS 410-133561/2	0.5	0.535536	0.25	86651.0	1.071072	Y
5	IC 410-133561/4	1.0	1.071371	0.25	91879.0	1.071371	Y
6	IC 410-133561/3	2.5	2.609501	0.25	97045.0	1.0438	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

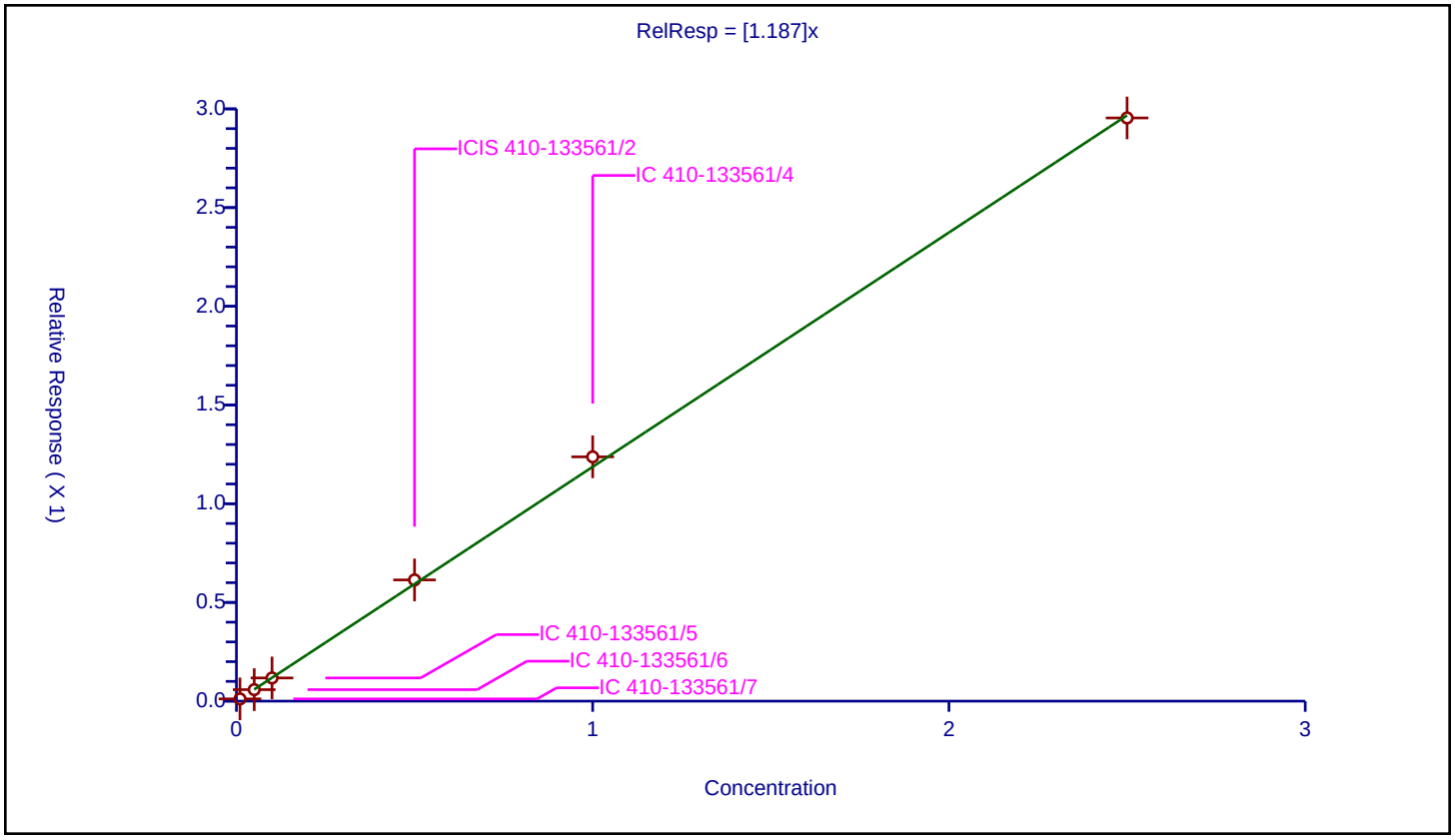
Curve Coefficients

Intercept:	0
Slope:	1.187

Error Coefficients

Standard Error:	560000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.011367	0.25	66771.0	1.136721	Y
2	IC 410-133561/6	0.05	0.058167	0.25	68376.0	1.163347	Y
3	IC 410-133561/5	0.1	0.117378	0.25	77257.0	1.173777	Y
4	ICIS 410-133561/2	0.5	0.614081	0.25	86651.0	1.228162	Y
5	IC 410-133561/4	1.0	1.237454	0.25	91879.0	1.237454	Y
6	IC 410-133561/3	2.5	2.954173	0.25	97045.0	1.181669	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

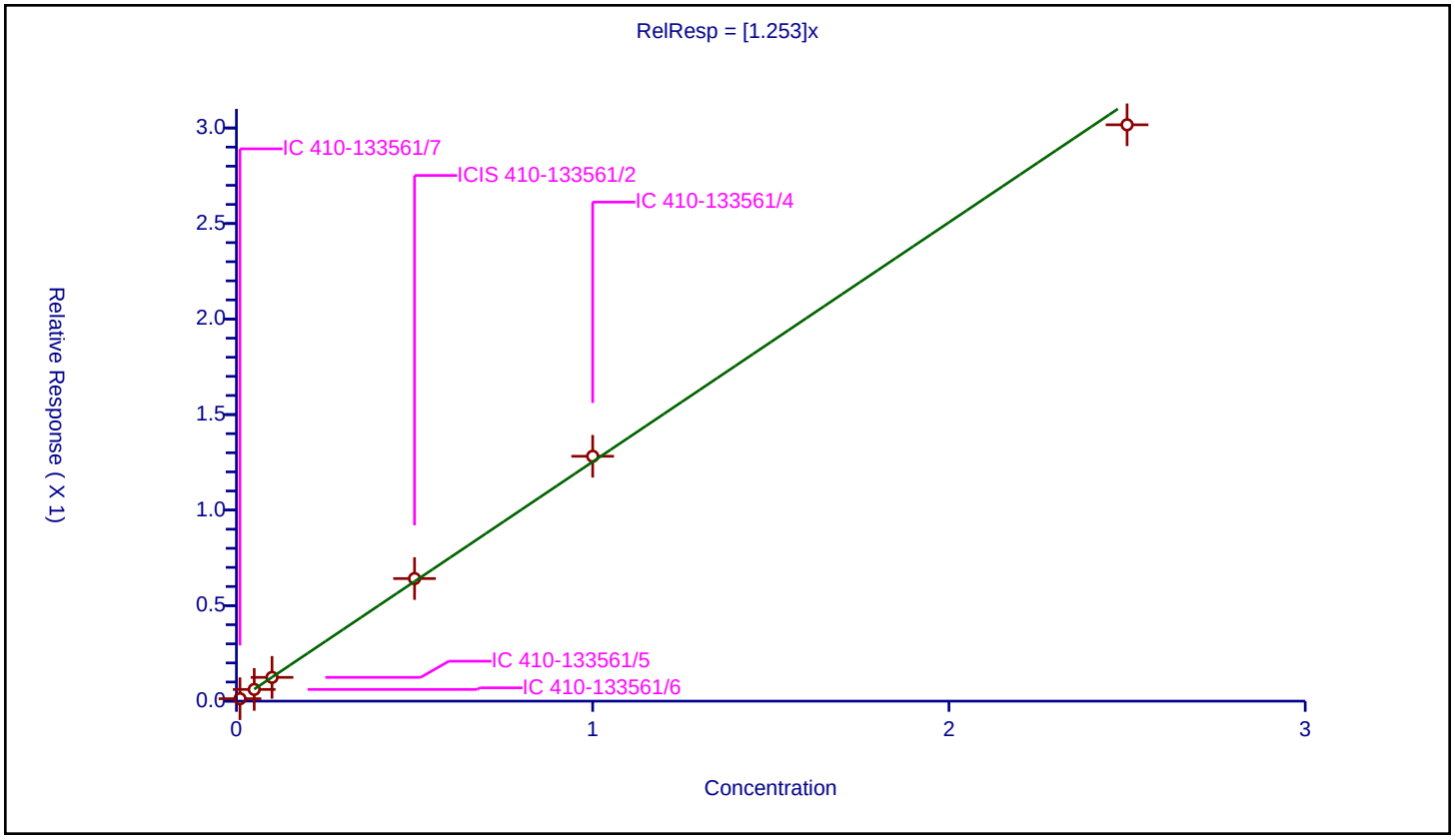
Curve Coefficients

Intercept:	0
Slope:	1.253

Error Coefficients

Standard Error:	574000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-133561/7	0.01	0.012749	0.25	66771.0	1.27488	Y
2	IC 410-133561/6	0.05	0.061334	0.25	68376.0	1.226673	Y
3	IC 410-133561/5	0.1	0.124435	0.25	77257.0	1.244353	Y
4	ICIS 410-133561/2	0.5	0.641663	0.25	86651.0	1.283326	Y
5	IC 410-133561/4	1.0	1.281871	0.25	91879.0	1.281871	Y
6	IC 410-133561/3	2.5	3.016827	0.25	97045.0	1.206731	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-140413/7	NF0906.D
Level 2	IC 410-140413/6	NF0905.D
Level 3	IC 410-140413/5	NF0904.D
Level 4	ICIS 410-140413/2	NF0901.D
Level 5	IC 410-140413/4	NF0903.D
Level 6	IC 410-140413/3	NF0902.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4553 0.3624	0.4442	0.4098	0.3828	0.3950	Ave		0.4082				8.8		20.4			
N-Nitrosodimethylamine	0.4094 0.4010	0.4057	0.4109	0.4154	0.4152	Ave		0.4096				1.4		20.4			
Bis(2-chloroethyl)ether	0.3438 0.2704	0.3166	0.3023	0.2785	0.2888	Ave		0.3001				9.0		20.4			
Naphthalene	1.1065 0.9232	1.0794	1.0378	1.0070	1.0269	Ave		1.0301				6.2		20.4			
Quinoline	+++++ 0.6011	0.6619	0.6471	0.6573	0.6390	Ave		0.6413				3.8		20.4			
2-Methylnaphthalene	0.7226 0.6358	0.7396	0.6971	0.7075	0.7025	Ave		0.7008				5.0		20.4			
1-Methylnaphthalene	0.6812 0.6009	0.6803	0.6458	0.6595	0.6642	Ave		0.6553				4.5		20.4			
Dimethylphthalate	1.3139 1.1339	1.1463	1.1881	1.1837	1.2327	Ave		1.1998				5.5		20.4			
Acenaphthylene	2.0421 1.8113	1.9224	1.9237	1.9355	1.9057	Ave		1.9235				3.8		20.4			
Acenaphthene	1.0651 1.0820	1.1516	1.1213	1.1352	1.1333	Ave		1.1147				3.0		20.4			
Dibenzofuran	2.0418 1.6933	1.9511	1.8866	1.8347	1.8410	Ave		1.8747				6.3		20.4			
Diethylphthalate	1.2644 1.0922	1.1474	1.1628	1.1812	1.2315	Ave		1.1799				5.2		20.4			
Fluorene	1.5352 1.3109	1.4675	1.4600	1.4074	1.4187	Ave		1.4333				5.2		20.4			
N-Nitrosodiphenylamine	0.4534 0.4057	0.4527	0.4770	0.4722	0.4617	Ave		0.4538				5.6		20.4			

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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3646 0.3031	0.3363	0.3383	0.3252	0.3260	Ave		0.3323				6.1		20.4			
Phenanthrene	1.2400 1.0406	1.1563	1.1611	1.0856	1.1110	Ave		1.1324				6.1		20.4			
Anthracene	1.0265 0.9264	0.9688	1.0129	1.0235	1.0153	Ave		0.9956				4.0		20.4			
Di-n-butyl phthalate	0.9360 0.7832	0.8854	0.9174	0.9289	0.9772	Ave		0.9047				7.4		20.4			
Fluoranthene	1.2358 1.0822	1.2159	1.2362	1.1565	1.1656	Ave		1.1820				5.1		20.4			
Pyrene	1.3473 1.1603	1.2797	1.2835	1.2582	1.2391	Ave		1.2614				4.9		20.4			
Butylbenzylphthalate	0.4225 0.4505	0.3945	0.4140	0.4490	0.4736	Ave		0.4340				6.6		20.4			
Benzo[a]anthracene	1.2433 1.1941	1.2133	1.2285	1.2674	1.2410	Ave		1.2312				2.1		20.4			
Chrysene	1.2612 1.0705	1.1620	1.1666	1.1457	1.1531	Ave		1.1598				5.3		20.4			
Bis(2-ethylhexyl) phthalate	0.5781 0.6013	0.5347	0.5699	0.6298	0.6498	Ave		0.5939				7.1		20.4			
Di-n-octyl phthalate	0.9119 0.7058	0.8603	0.8946	0.9399	0.9997	Ave		0.8854				11.3		20.4			
Benzo[b]fluoranthene	1.1774 1.1027	1.2148	1.1893	1.2686	1.1810	Ave		1.1890				4.6		20.4			
Benzo[k]fluoranthene	1.2139 0.9681	1.2406	1.2374	1.1958	1.1929	Ave		1.1748				8.8		20.4			
Benzo[e]pyrene	1.1316 1.0213	1.1885	1.1861	1.1574	1.1225	Ave		1.1346				5.4		20.4			
Benzo[a]pyrene	1.0089 0.9483	1.0351	1.0755	1.0768	1.0566	Ave		1.0335				4.7		20.4			
Perylene	1.1132 0.9562	1.1570	1.1569	1.1219	1.0850	Ave		1.0984				6.8		20.4			
Indeno[1,2,3-cd]pyrene	0.6510 0.9292	0.7107	0.7692	1.0120	0.9446	Ave		0.8361				17.4		20.4			
Dibenz(a,h)anthracene	0.5828 0.9861	0.6791	0.7953	1.0786	1.0251	Lin1	-0.007	1.0070							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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	0.8931 1.0058	0.9313	1.0073	1.1563	1.1245	Ave		1.0197				10.2		20.4			
1-Methylnaphthalene-d10 (Surr)	0.5428 0.4854	0.5595	0.5293	0.5374	0.5405	Ave		0.5325				4.7		20.4			
Fluoranthene-d10 (Surr)	1.0270 0.9779	1.0495	1.0711	1.0248	1.0225	Ave		1.0288				3.0		20.4			
Benzo(a)pyrene-d12 (Surr)	0.8614 0.8806	0.9140	0.9364	0.9654	0.9784	Ave		0.9227				5.0		20.4			

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 Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-140413/7	NF0906.D
Level 2	IC 410-140413/6	NF0905.D
Level 3	IC 410-140413/5	NF0904.D
Level 4	ICIS 410-140413/2	NF0901.D
Level 5	IC 410-140413/4	NF0903.D
Level 6	IC 410-140413/3	NF0902.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	2752 573349	12959	24948	204359	235698	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	2475 634514	11835	25011	221770	247755	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	7069 1480821	31406	64571	506135	601365	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	22749 5056508	107066	221681	1829892	2138608	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	+++++ 3292225	65656	138211	1194440	1330731	+++++ 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	14856 3482741	73354	148900	1285590	1463019	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	14004 3291137	67476	137931	1198392	1383273	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	358011 12928562	618515	1385304	5844372	7007646	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	22257 5162866	103728	224312	1911188	2166764	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	11609 3084069	62139	130747	1120927	1288497	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	22254 4826557	105274	219979	1811700	2093150	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	344510 12453264	619082	1355859	5831977	7001101	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	16732	79182	170237	1389719	1613084	0.0100	0.0500	0.100	0.500	1.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			3736478					2.50				
N-Nitrosodiphenylamine	PHN	Ave	9933 2288083	49293	111266	946529	1040556	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	7988 1709642	36619	78918	651927	734853	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	27165 5869067	125923	270833	2175912	2504156	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	22488 5224583	105506	236263	2051437	2288343	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	512656 17668415	964157	2139867	9309803	11012710	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	27073 6103280	132406	288359	2318128	2627239	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	27628 6429816	136927	301691	2462407	2787516	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	216603 9985194	422137	973103	4393723	5327637	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	25495 6617129	129823	288744	2480289	2791827	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	25862 5932085	124333	274209	2242171	2594176	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	296367 13328743	572087	1339534	6162450	7308776	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	486217 18351528	931357	2231523	9990493	12297410	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	25112 7167575	131522	296643	2696916	2905528	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	25891 6293151	134311	308658	2542204	2934719	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	24136 6638387	128674	295851	2460622	2761598	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	21519 6164403	112060	268271	2289289	2599374	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	23744 6215358	125262	288574	2385121	2669287	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	13885	76938	191854	2151493	2323787	0.0100	0.0500	0.100	0.500	1.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			6039802					2.50				
Dibenz(a,h)anthracene	PRY	Lin1	12430 6409783	73518	198378	2293176	2521905	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	19049 6538061	100825	251263	2458229	2766373	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	11160 2658505	55498	113065	976616	1125711	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	22499 5514924	114288	249851	2054053	2304678	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	18372 5723871	98954	233578	2052380	2407018	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45105-1 Analy Batch No.: 140413

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2021 06:25 Calibration End Date: 06/22/2021 09:12 Calibration ID: 27846

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-140413/7	NF0906.D
Level 2	IC 410-140413/6	NF0905.D
Level 3	IC 410-140413/5	NF0904.D
Level 4	ICIS 410-140413/2	NF0901.D
Level 5	IC 410-140413/4	NF0903.D
Level 6	IC 410-140413/3	NF0902.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dibenz(a,h)anthracene	24.5	-19.2	-14.4	8.4	2.5	-1.8	50	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0901.D
Lims ID: ICIS l4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 22-Jun-2021 06:25:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0032502-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:48:22 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: gamblerj Date: 22-Jun-2021 10:41:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.767	2.767	0.000	100	204359	0.5000	0.4688	
2 N-Nitrosodimethylamine	74	3.021	3.021	0.000	91	221770	0.5000	0.5071	
3 Bis(2-chloroethyl)ether	93	5.816	5.816	0.000	83	506135	0.5000	0.4641	
* 4 1,4-Dichlorobenzene-d4	152	6.179	6.179	0.000	90	266919	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.141	8.141	0.000	100	908604	0.2500	0.2500	
6 Naphthalene	128	8.178	8.178	0.000	100	1829892	0.5000	0.4888	
7 Quinoline	129	8.715	8.715	0.000	99	1194440	0.5000	0.5125	
8 2-Methylnaphthalene	142	9.306	9.306	0.000	99	1285590	0.5000	0.5047	
$ 9 1-Methylnaphthalene-d10	152	9.406	9.406	0.000	98	976616	0.5000	0.5046	
10 1-Methylnaphthalene	142	9.456	9.456	0.000	100	1198392	0.5000	0.5032	
11 Dimethyl phthalate	163	10.618	10.618	0.000	100	5844372	2.50	2.47	
12 Acenaphthylene	152	10.758	10.758	0.000	97	1911188	0.5000	0.5031	
* 13 Acenaphthene-d10	164	10.979	10.979	0.000	92	493724	0.2500	0.2500	
14 Acenaphthene	154	11.029	11.029	0.000	93	1120927	0.5000	0.5092	
15 Dibenzofuran	168	11.279	11.279	0.000	99	1811700	0.5000	0.4893	
16 Diethyl phthalate	149	11.642	11.642	0.000	97	5831977	2.50	2.50	
17 Fluorene	166	11.727	11.727	0.000	98	1389719	0.5000	0.4910	
18 N-Nitrosodiphenylamine	169	11.896	11.896	0.000	95	946529	0.5000	0.5203	
19 Hexachlorobenzene	284	12.398	12.398	0.000	89	651927	0.5000	0.4894	
* 20 Phenanthrene-d10	188	12.893	12.893	0.000	100	1002213	0.2500	0.2500	
21 Phenanthrene	178	12.924	12.924	0.000	100	2175912	0.5000	0.4793	
22 Anthracene	178	12.993	12.993	0.000	100	2051437	0.5000	0.5140	
23 Di-n-butyl phthalate	149	13.745	13.745	0.000	100	9309803	2.50	2.57	
$ 24 Fluoranthene-d10 (Surr)	212	14.572	14.572	0.000	98	2054053	0.5000	0.4980	
25 Fluoranthene	202	14.603	14.603	0.000	97	2318128	0.5000	0.4892	
26 Pyrene	202	14.948	14.948	0.000	96	2462407	0.5000	0.4988	
27 Butyl benzyl phthalate	149	16.112	16.112	0.000	100	4393723	2.50	2.59	
28 Benzo[a]anthracene	228	16.986	16.986	0.000	100	2480289	0.5000	0.5147	
* 29 Chrysene-d12	240	17.002	17.002	0.000	94	978511	0.2500	0.2500	
30 Chrysene	228	17.048	17.048	0.000	100	2242171	0.5000	0.4939	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.193	17.193	0.000	99	6162450	2.50	2.65	
32 Di-n-octyl phthalate	149	18.374	18.374	0.000	100	9990493	2.50	2.65	
33 Benzo[b]fluoranthene	252	18.858	18.858	0.000	100	2696916	0.5000	0.5335	
34 Benzo[k]fluoranthene	252	18.911	18.911	0.000	99	2542204	0.5000	0.5089	
35 Benzo[e]pyrene	252	19.310	19.310	0.000	100	2460622	0.5000	0.5101	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.356	19.356	0.000	97	2052380	0.5000	0.5231	
37 Benzo[a]pyrene	252	19.394	19.394	0.000	100	2289289	0.5000	0.5209	
* 38 Perylene-d12	264	19.486	19.486	0.000	95	1062986	0.2500	0.2500	
39 Perylene	252	19.533	19.533	0.000	100	2385121	0.5000	0.5107	
40 Indeno[1,2,3-cd]pyrene	276	21.160	21.160	0.000	94	2151493	0.5000	0.6052	
41 Dibenz(a,h)anthracene	278	21.210	21.210	0.000	94	2293176	0.5000	0.5422	
42 Benzo[g,h,i]perylene	276	21.598	21.598	0.000	96	2458229	0.5000	0.5670	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

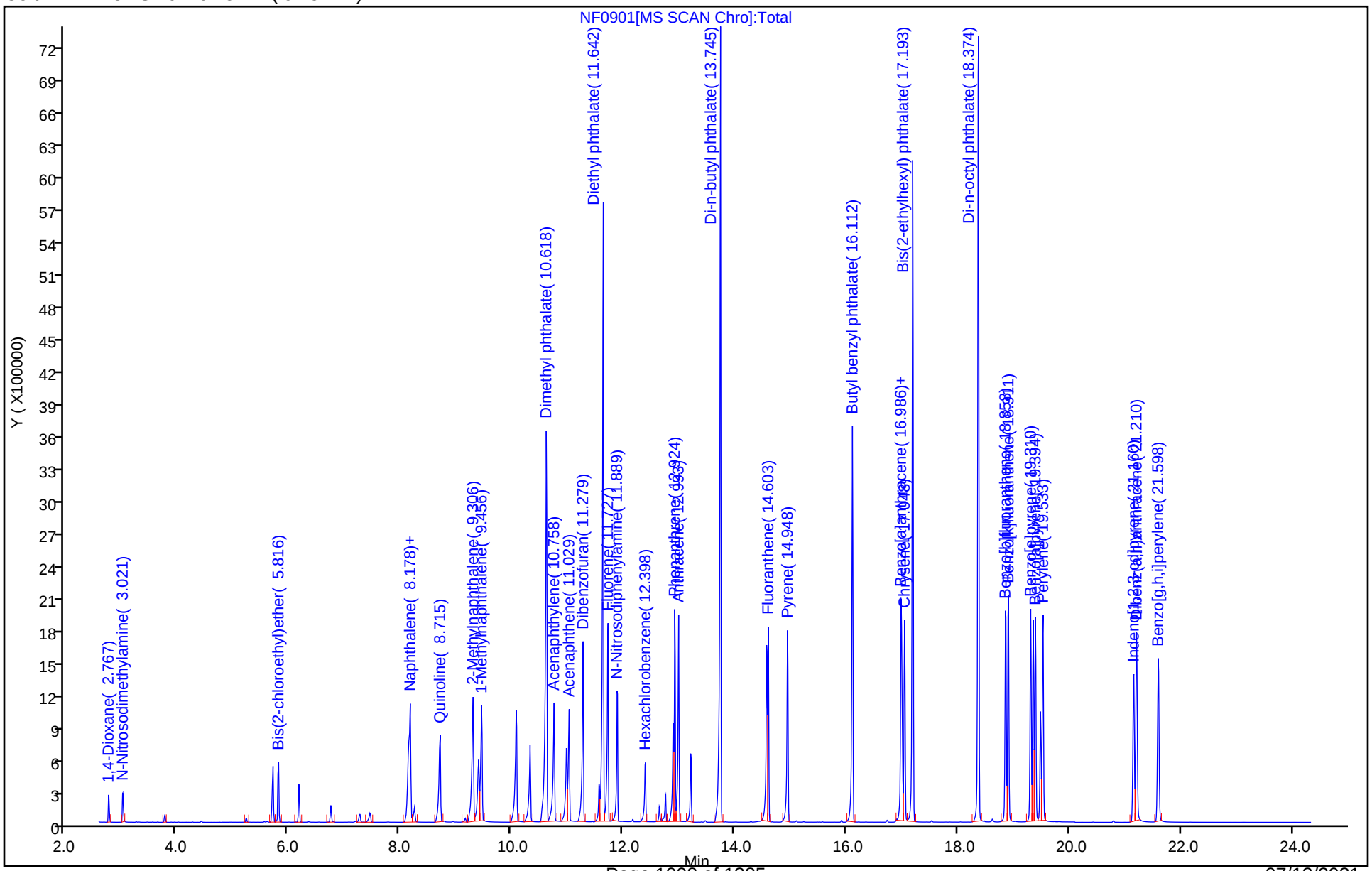
Report Date: 23-Jun-2021 03:48:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0901.D

Injection Date:	22-Jun-2021 06:25:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICIS l4			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0902.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Jun-2021 07:12:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0032502-003
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:48:24 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: gamblerj Date: 23-Jun-2021 03:30:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.762	2.767	-0.005	100	573349	2.50	2.22	
2 N-Nitrosodimethylamine	74	3.016	3.021	-0.005	88	634514	2.50	2.45	
3 Bis(2-chloroethyl)ether	93	5.816	5.816	0.000	82	1480821	2.50	2.25	
* 4 1,4-Dichlorobenzene-d4	152	6.179	6.179	0.000	95	158221	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.141	8.141	0.000	53	547735	0.2500	0.2500	
6 Naphthalene	128	8.178	8.178	0.000	100	5056508	2.50	2.24	
7 Quinoline	129	8.715	8.715	0.000	100	3292225	2.50	2.34	
8 2-Methylnaphthalene	142	9.306	9.306	0.000	100	3482741	2.50	2.27	
$ 9 1-Methylnaphthalene-d10	152	9.406	9.406	0.000	99	2658505	2.50	2.28	
10 1-Methylnaphthalene	142	9.466	9.456	0.010	99	3291137	2.50	2.29	
11 Dimethyl phthalate	163	10.628	10.618	0.010	100	12928562	10.0	9.45	
12 Acenaphthylene	152	10.758	10.758	0.000	68	5162866	2.50	2.35	
* 13 Acenaphthene-d10	164	10.989	10.979	0.010	67	285042	0.2500	0.2500	
14 Acenaphthene	154	11.029	11.029	0.000	95	3084069	2.50	2.43	
15 Dibenzofuran	168	11.279	11.279	0.000	99	4826557	2.50	2.26	
16 Diethyl phthalate	149	11.642	11.642	0.000	99	12453264	10.0	9.26	
17 Fluorene	166	11.727	11.727	0.000	100	3736478	2.50	2.29	
18 N-Nitrosodiphenylamine	169	11.896	11.896	0.000	96	2288083	2.50	2.24	
19 Hexachlorobenzene	284	12.398	12.398	0.000	88	1709642	2.50	2.28	
* 20 Phenanthrene-d10	188	12.900	12.893	0.007	82	563984	0.2500	0.2500	
21 Phenanthrene	178	12.931	12.924	0.007	98	5869067	2.50	2.30	
22 Anthracene	178	12.993	12.993	0.000	99	5224583	2.50	2.33	
23 Di-n-butyl phthalate	149	13.751	13.745	0.006	99	17668415	10.0	8.66	e
$ 24 Fluoranthene-d10 (Surr)	212	14.578	14.572	0.006	98	5514924	2.50	2.38	
25 Fluoranthene	202	14.610	14.603	0.007	97	6103280	2.50	2.29	
26 Pyrene	202	14.954	14.948	0.006	96	6429816	2.50	2.30	
27 Butyl benzyl phthalate	149	16.120	16.112	0.008	100	9985194	10.0	10.4	
28 Benzo[a]anthracene	228	16.994	16.986	0.008	98	6617129	2.50	2.42	
* 29 Chrysene-d12	240	17.009	17.002	0.007	54	554167	0.2500	0.2500	
30 Chrysene	228	17.055	17.048	0.007	100	5932085	2.50	2.31	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.201	17.193	0.008	98	13328743	10.0	10.1	e
32 Di-n-octyl phthalate	149	18.390	18.374	0.016	100	18351528	10.0	7.97	e
33 Benzo[b]fluoranthene	252	18.873	18.858	0.015	99	7167575	2.50	2.32	
34 Benzo[k]fluoranthene	252	18.919	18.911	0.008	100	6293151	2.50	2.06	
35 Benzo[e]pyrene	252	19.325	19.310	0.015	100	6638387	2.50	2.25	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.371	19.356	0.015	97	5723871	2.50	2.39	
37 Benzo[a]pyrene	252	19.410	19.394	0.016	100	6164403	2.50	2.29	
* 38 Perylene-d12	264	19.494	19.486	0.008	95	650022	0.2500	0.2500	
39 Perylene	252	19.540	19.533	0.008	100	6215358	2.50	2.18	
40 Indeno[1,2,3-cd]pyrene	276	21.174	21.160	0.014	95	6039802	2.50	2.78	
41 Dibenz(a,h)anthracene	278	21.224	21.210	0.014	96	6409783	2.50	2.45	
42 Benzo[g,h,i]perylene	276	21.619	21.598	0.021	95	6538061	2.50	2.47	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

MSS_RVSIM_6_00010 Amount Added: 1.00 Units: mL

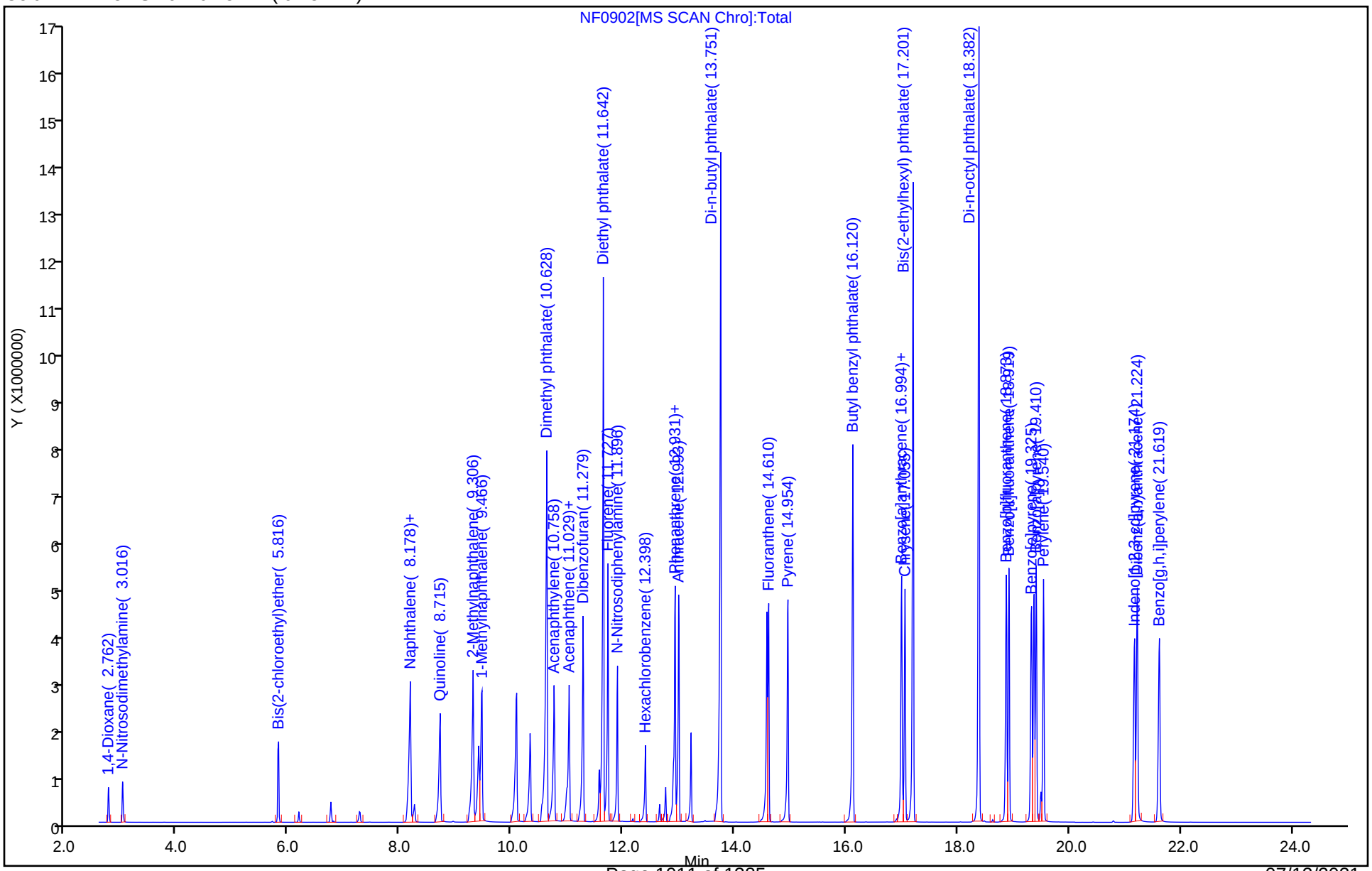
Report Date: 23-Jun-2021 03:48:25 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0902.D

Injection Date:	22-Jun-2021 07:12:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L6			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0903.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Jun-2021 07:42:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0032502-004
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:48:27 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: saadehw Date: 22-Jun-2021 13:40:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.766	2.767	-0.001	100	235698	1.00	0.9676	
2 N-Nitrosodimethylamine	74	3.016	3.021	-0.005	89	247755	1.00	1.01	
3 Bis(2-chloroethyl)ether	93	5.816	5.816	0.000	81	601365	1.00	0.9623	
* 4 1,4-Dichlorobenzene-d4	152	6.178	6.179	-0.001	94	149173	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.140	8.141	-0.001	100	520660	0.2500	0.2500	
6 Naphthalene	128	8.178	8.178	0.000	100	2138608	1.00	1.00	
7 Quinoline	129	8.715	8.715	0.000	99	1330731	1.00	1.00	
8 2-Methylnaphthalene	142	9.306	9.306	0.000	100	1463019	1.00	1.00	
$ 9 1-Methylnaphthalene-d10	152	9.406	9.406	0.000	98	1125711	1.00	1.02	
10 1-Methylnaphthalene	142	9.456	9.456	0.000	99	1383273	1.00	1.01	
11 Dimethyl phthalate	163	10.618	10.618	0.000	100	7007646	5.00	5.14	
12 Acenaphthylene	152	10.758	10.758	0.000	97	2166764	1.00	0.99	
* 13 Acenaphthene-d10	164	10.979	10.979	0.000	93	284244	0.2500	0.2500	
14 Acenaphthene	154	11.029	11.029	0.000	93	1288497	1.00	1.02	
15 Dibenzofuran	168	11.279	11.279	0.000	98	2093150	1.00	0.9820	
16 Diethyl phthalate	149	11.634	11.642	-0.008	100	7001101	5.00	5.22	
17 Fluorene	166	11.719	11.727	-0.008	100	1613084	1.00	0.9899	
18 N-Nitrosodiphenylamine	169	11.889	11.896	-0.007	99	1040556	1.00	1.02	
19 Hexachlorobenzene	284	12.398	12.398	0.000	88	734853	1.00	0.9812	
* 20 Phenanthrene-d10	188	12.892	12.893	-0.001	100	563471	0.2500	0.2500	
21 Phenanthrene	178	12.923	12.924	-0.001	100	2504156	1.00	0.9811	
22 Anthracene	178	12.993	12.993	0.000	100	2288343	1.00	1.02	
23 Di-n-butyl phthalate	149	13.744	13.745	-0.001	100	11012710	5.00	5.40	
$ 24 Fluoranthene-d10 (Surr)	212	14.572	14.572	0.000	97	2304678	1.00	0.99	
25 Fluoranthene	202	14.603	14.603	0.000	97	2627239	1.00	0.9861	
26 Pyrene	202	14.948	14.948	0.000	96	2787516	1.00	0.9823	
27 Butyl benzyl phthalate	149	16.112	16.112	0.000	100	5327637	5.00	5.46	
28 Benzo[a]anthracene	228	16.986	16.986	0.000	99	2791827	1.00	1.01	
* 29 Chrysene-d12	240	17.001	17.002	-0.001	87	562415	0.2500	0.2500	
30 Chrysene	228	17.047	17.048	-0.001	100	2594176	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.193	17.193	0.000	99	7308776	5.00	5.47	
32 Di-n-octyl phthalate	149	18.374	18.374	0.000	100	12297410	5.00	5.65	
33 Benzo[b]fluoranthene	252	18.857	18.858	-0.001	100	2905528	1.00	0.99	
34 Benzo[k]fluoranthene	252	18.911	18.911	0.000	99	2934719	1.00	1.02	
35 Benzo[e]pyrene	252	19.310	19.310	0.000	100	2761598	1.00	0.9894	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.356	19.356	0.000	97	2407018	1.00	1.06	
37 Benzo[a]pyrene	252	19.394	19.394	0.000	100	2599374	1.00	1.02	
* 38 Perylene-d12	264	19.486	19.486	0.000	94	615041	0.2500	0.2500	
39 Perylene	252	19.525	19.533	-0.007	100	2669287	1.00	0.9878	
40 Indeno[1,2,3-cd]pyrene	276	21.153	21.160	-0.007	96	2323787	1.00	1.13	
41 Dibenz(a,h)anthracene	278	21.209	21.210	-0.001	94	2521905	1.00	1.02	
42 Benzo[g,h,i]perylene	276	21.598	21.598	0.000	95	2766373	1.00	1.10	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_5_00012 Amount Added: 1.00 Units: mL

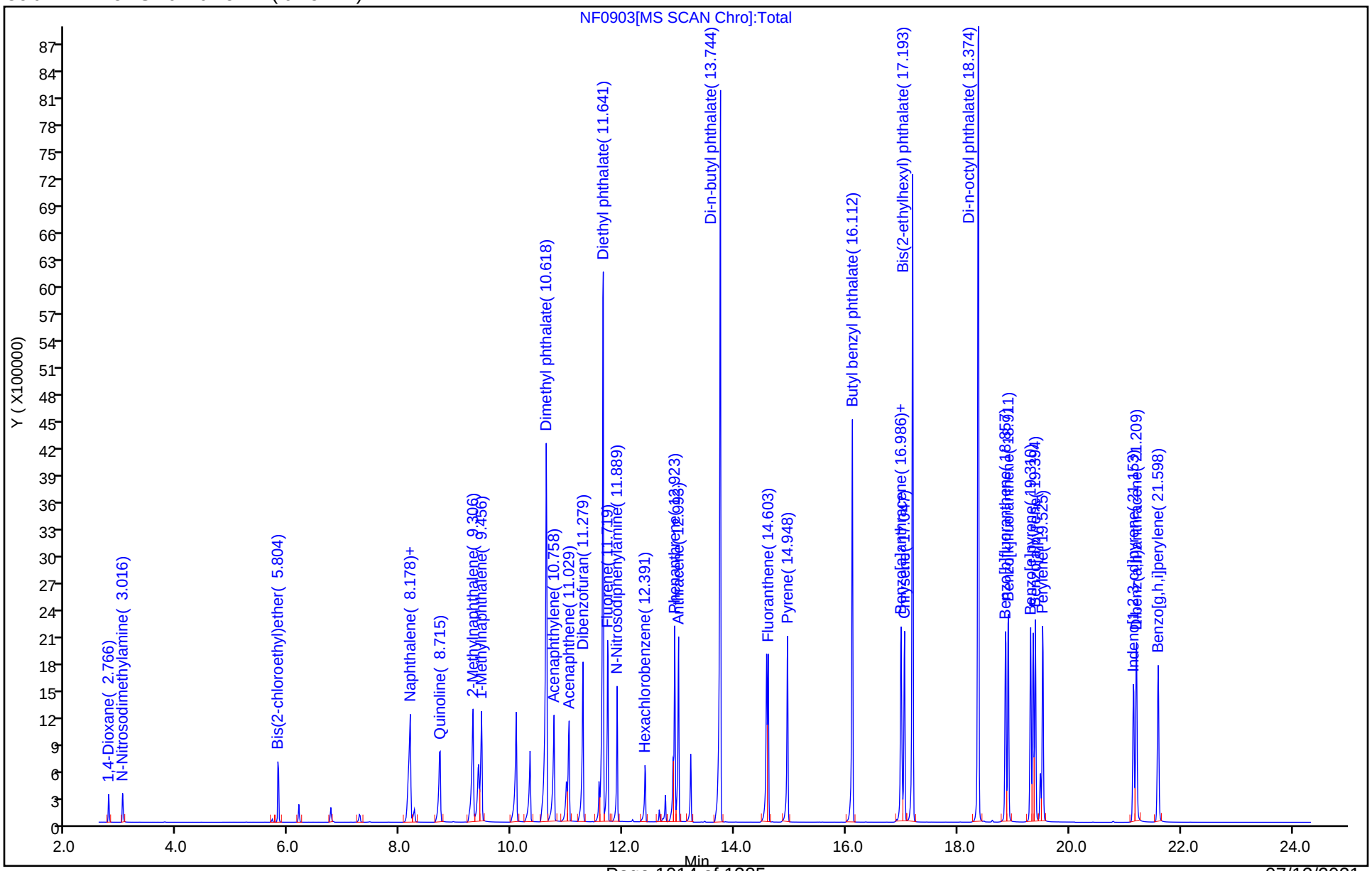
Report Date: 23-Jun-2021 03:48:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0903.D

Injection Date:	22-Jun-2021 07:42:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0904.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Jun-2021 08:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0032502-005
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:48:29 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: saadehw Date: 22-Jun-2021 13:40:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.771	2.767	0.004	100	24948	0.1000	0.1004	M
2 N-Nitrosodimethylamine	74	3.025	3.021	0.004	92	25011	0.1000	0.1003	
3 Bis(2-chloroethyl)ether	93	5.803	5.816	-0.013	95	64571	0.1000	0.1007	
* 4 1,4-Dichlorobenzene-d4	152	6.178	6.179	-0.001	96	152178	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.140	8.141	-0.001	100	533995	0.2500	0.2500	
6 Naphthalene	128	8.178	8.178	0.000	100	221681	0.1000	0.1007	
7 Quinoline	129	8.715	8.715	0.000	98	138211	0.1000	0.1009	
8 2-Methylnaphthalene	142	9.306	9.306	0.000	97	148900	0.1000	0.0995	
$ 9 1-Methylnaphthalene-d10	152	9.396	9.406	-0.010	99	113065	0.1000	0.0994	
10 1-Methylnaphthalene	142	9.456	9.456	0.000	99	137931	0.1000	0.0985	
11 Dimethyl phthalate	163	10.618	10.618	0.000	99	1385304	1.00	0.99	
12 Acenaphthylene	152	10.758	10.758	0.000	68	224312	0.1000	0.1000	
* 13 Acenaphthene-d10	164	10.979	10.979	0.000	95	291507	0.2500	0.2500	
14 Acenaphthene	154	11.029	11.029	0.000	92	130747	0.1000	0.1006	
15 Dibenzofuran	168	11.278	11.279	-0.001	97	219979	0.1000	0.1006	
16 Diethyl phthalate	149	11.634	11.642	-0.008	99	1355859	1.00	0.9855	
17 Fluorene	166	11.719	11.727	-0.008	98	170237	0.1000	0.1019	
18 N-Nitrosodiphenylamine	169	11.889	11.896	-0.007	99	111266	0.1000	0.1051	
19 Hexachlorobenzene	284	12.390	12.398	-0.008	94	78918	0.1000	0.1018	
* 20 Phenanthrene-d10	188	12.892	12.893	-0.001	100	583143	0.2500	0.2500	
21 Phenanthrene	178	12.923	12.924	-0.001	100	270833	0.1000	0.1025	
22 Anthracene	178	12.993	12.993	0.000	100	236263	0.1000	0.1017	
23 Di-n-butyl phthalate	149	13.738	13.745	-0.007	100	2139867	1.00	1.01	
$ 24 Fluoranthene-d10 (Surr)	212	14.565	14.572	-0.007	98	249851	0.1000	0.1041	
25 Fluoranthene	202	14.597	14.603	-0.006	97	288359	0.1000	0.1046	
26 Pyrene	202	14.942	14.948	-0.006	96	301691	0.1000	0.1018	
27 Butyl benzyl phthalate	149	16.104	16.112	-0.008	100	973103	1.00	0.9539	
28 Benzo[a]anthracene	228	16.978	16.986	-0.008	94	288744	0.1000	0.0998	
* 29 Chrysene-d12	240	16.994	17.002	-0.008	86	587616	0.2500	0.2500	
30 Chrysene	228	17.040	17.048	-0.008	100	274209	0.1000	0.1006	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.185	17.193	-0.008	99	1339534	1.00	0.9596	
32 Di-n-octyl phthalate	149	18.359	18.374	-0.015	100	2231523	1.00	1.01	
33 Benzo[b]fluoranthene	252	18.850	18.858	-0.008	100	296643	0.1000	0.1000	
34 Benzo[k]fluoranthene	252	18.896	18.911	-0.015	100	308658	0.1000	0.1053	
35 Benzo[e]pyrene	252	19.302	19.310	-0.008	100	295851	0.1000	0.1045	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.348	19.356	-0.008	96	233578	0.1000	0.1015	
37 Benzo[a]pyrene	252	19.387	19.394	-0.007	100	268271	0.1000	0.1041	
* 38 Perylene-d12	264	19.479	19.486	-0.007	95	623585	0.2500	0.2500	
39 Perylene	252	19.517	19.533	-0.015	100	288574	0.1000	0.1053	
40 Indeno[1,2,3-cd]pyrene	276	21.146	21.160	-0.014	95	191854	0.1000	0.0920	
41 Dibenz(a,h)anthracene	278	21.202	21.210	-0.008	94	198378	0.1000	0.0856	
42 Benzo[g,h,i]perylene	276	21.584	21.598	-0.014	96	251263	0.1000	0.0988	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

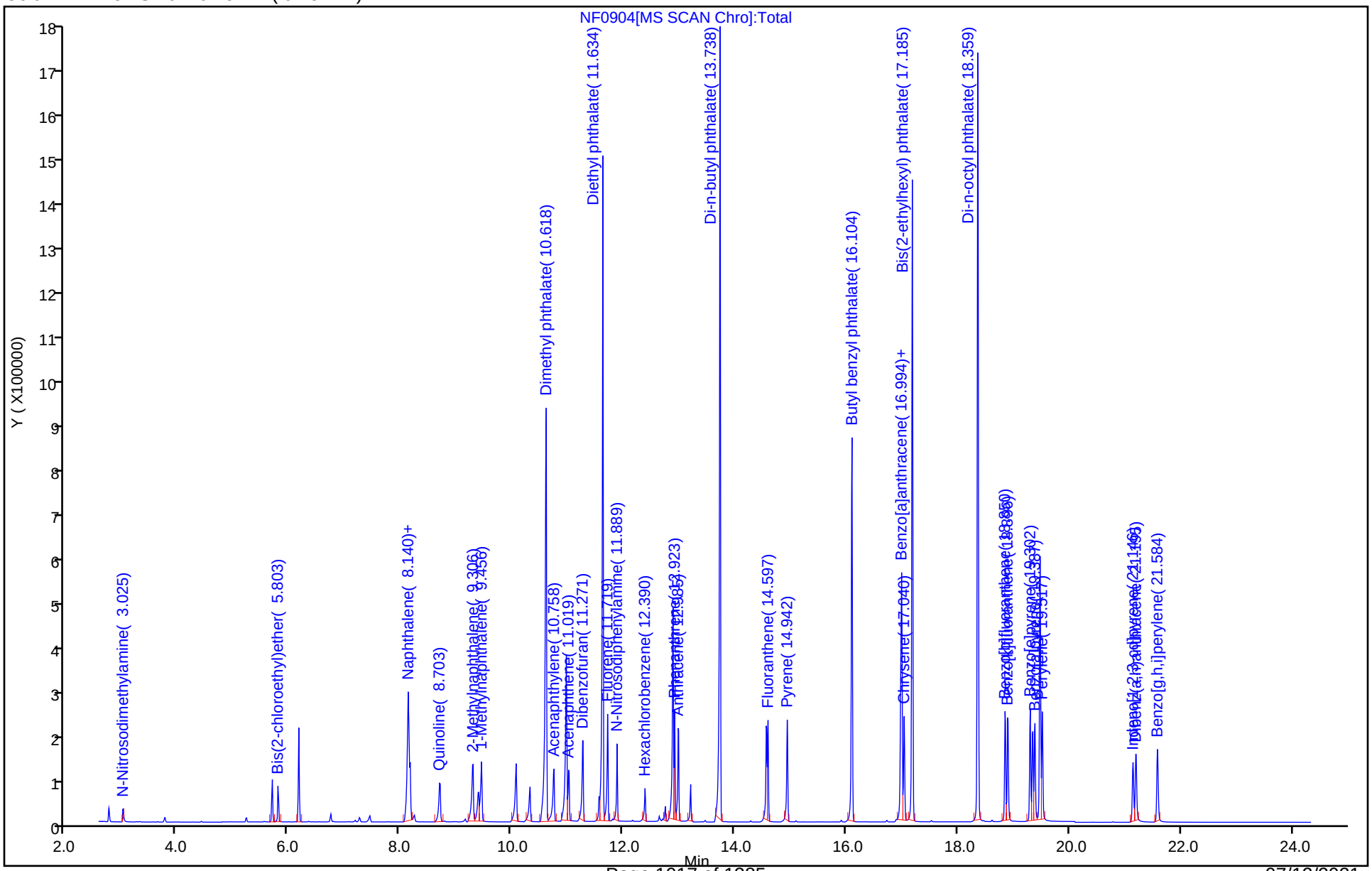
Report Date: 23-Jun-2021 03:48:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0904.D

Injection Date:	22-Jun-2021 08:12:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

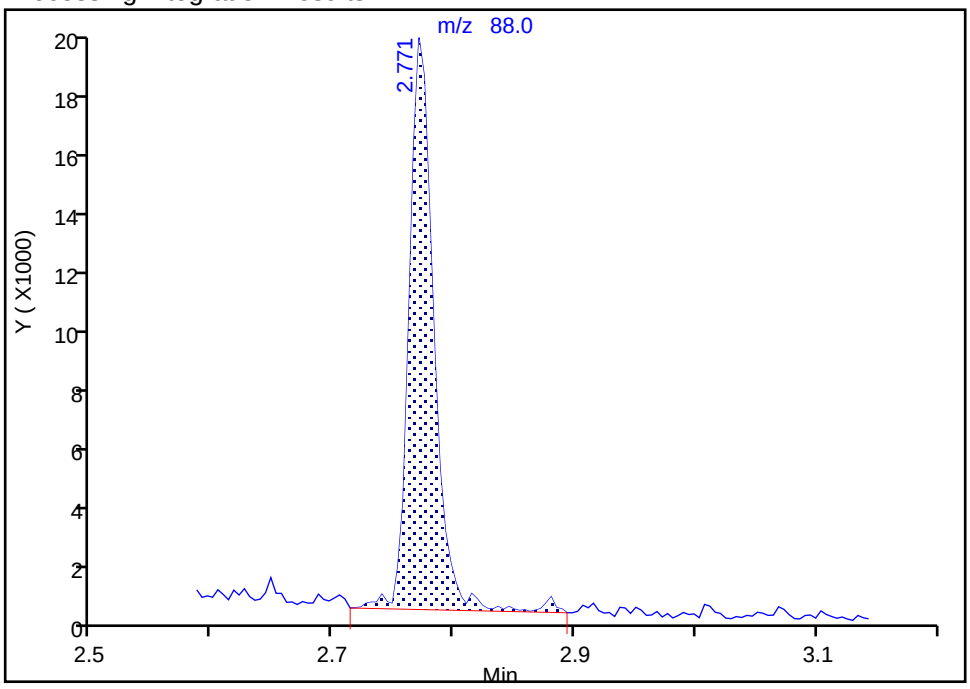
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Lims ID: IC L3
Client ID:
Operator ID: jmg00346 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

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

Signal: 1

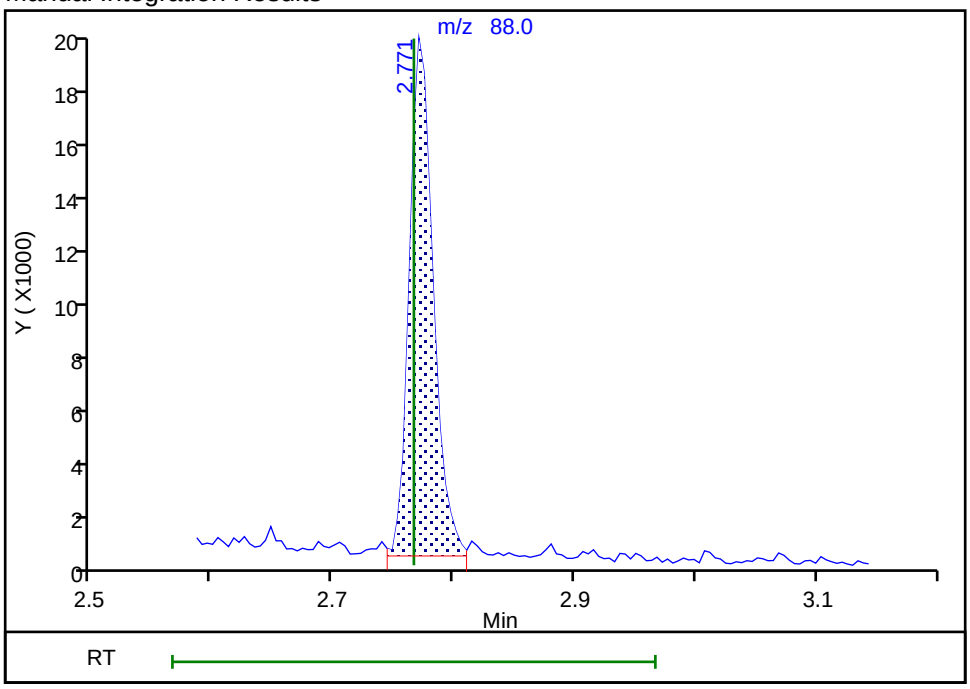
Processing Integration Results

RT: 2.77
Area: 26023
Amount: 0.104185
Amount Units: ug/ml



Manual Integration Results

RT: 2.77
Area: 24948
Amount: 0.100392
Amount Units: ug/ml



Reviewer: gamblerj, 23-Jun-2021 03:31:19
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0905.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Jun-2021 08:42:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0032502-006
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:48:32 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: saadehw Date: 22-Jun-2021 13:39:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.771	2.767	0.004	98	12959	0.0500	0.0544	
2 N-Nitrosodimethylamine	74	3.025	3.021	0.004	90	11835	0.0500	0.0495	
3 Bis(2-chloroethyl)ether	93	5.816	5.816	0.000	82	31406	0.0500	0.0528	
* 4 1,4-Dichlorobenzene-d4	152	6.178	6.179	-0.001	93	145872	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.140	8.141	-0.001	100	495934	0.2500	0.2500	
6 Naphthalene	128	8.178	8.178	0.000	100	107066	0.0500	0.0524	
7 Quinoline	129	8.715	8.715	0.000	98	65656	0.0500	0.0516	
8 2-Methylnaphthalene	142	9.296	9.306	-0.010	98	73354	0.0500	0.0528	
$ 9 1-Methylnaphthalene-d10	152	9.396	9.406	-0.010	99	55498	0.0500	0.0525	
10 1-Methylnaphthalene	142	9.456	9.456	0.000	99	67476	0.0500	0.0519	
11 Dimethyl phthalate	163	10.618	10.618	0.000	98	618515	0.5000	0.4777	
12 Acenaphthylene	152	10.758	10.758	0.000	68	103728	0.0500	0.0500	
* 13 Acenaphthene-d10	164	10.979	10.979	0.000	95	269786	0.2500	0.2500	
14 Acenaphthene	154	11.029	11.029	0.000	93	62139	0.0500	0.0517	
15 Dibenzofuran	168	11.279	11.279	0.000	97	105274	0.0500	0.0520	
16 Diethyl phthalate	149	11.634	11.642	-0.008	99	619082	0.5000	0.4862	
17 Fluorene	166	11.719	11.727	-0.008	98	79182	0.0500	0.0512	
18 N-Nitrosodiphenylamine	169	11.889	11.896	-0.007	99	49293	0.0500	0.0499	
19 Hexachlorobenzene	284	12.391	12.398	-0.007	94	36619	0.0500	0.0506	
* 20 Phenanthrene-d10	188	12.893	12.893	-0.001	100	544491	0.2500	0.2500	
21 Phenanthrene	178	12.923	12.924	-0.001	100	125923	0.0500	0.0511	
22 Anthracene	178	12.993	12.993	0.000	100	105506	0.0500	0.0487	
23 Di-n-butyl phthalate	149	13.738	13.745	-0.007	100	964157	0.5000	0.4893	
$ 24 Fluoranthene-d10 (Surr)	212	14.572	14.572	0.000	96	114288	0.0500	0.0510	
25 Fluoranthene	202	14.597	14.603	-0.006	97	132406	0.0500	0.0514	
26 Pyrene	202	14.942	14.948	-0.006	96	136927	0.0500	0.0507	
27 Butyl benzyl phthalate	149	16.104	16.112	-0.008	100	422137	0.5000	0.4545	
28 Benzo[a]anthracene	228	16.978	16.986	-0.008	87	129823	0.0500	0.0493	
* 29 Chrysene-d12	240	16.994	17.002	-0.008	84	535003	0.2500	0.2500	
30 Chrysene	228	17.040	17.048	-0.008	100	124333	0.0500	0.0501	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.185	17.193	-0.008	100	572087	0.5000	0.4501	
32 Di-n-octyl phthalate	149	18.359	18.374	-0.015	100	931357	0.5000	0.4858	
33 Benzo[b]fluoranthene	252	18.850	18.858	-0.008	100	131522	0.0500	0.0511	
34 Benzo[k]fluoranthene	252	18.896	18.911	-0.015	100	134311	0.0500	0.0528	
35 Benzo[e]pyrene	252	19.302	19.310	-0.008	100	128674	0.0500	0.0524	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.348	19.356	-0.008	96	98954	0.0500	0.0495	
37 Benzo[a]pyrene	252	19.387	19.394	-0.007	100	112060	0.0500	0.0501	
* 38 Perylene-d12	264	19.479	19.486	-0.007	95	541317	0.2500	0.2500	
39 Perylene	252	19.517	19.533	-0.015	100	125262	0.0500	0.0527	
40 Indeno[1,2,3-cd]pyrene	276	21.146	21.160	-0.014	95	76938	0.0500	0.0425	
41 Dibenz(a,h)anthracene	278	21.202	21.210	-0.008	94	73518	0.0500	0.0404	
42 Benzo[g,h,i]perylene	276	21.584	21.598	-0.014	96	100825	0.0500	0.0457	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_2_00013 Amount Added: 1.00 Units: mL

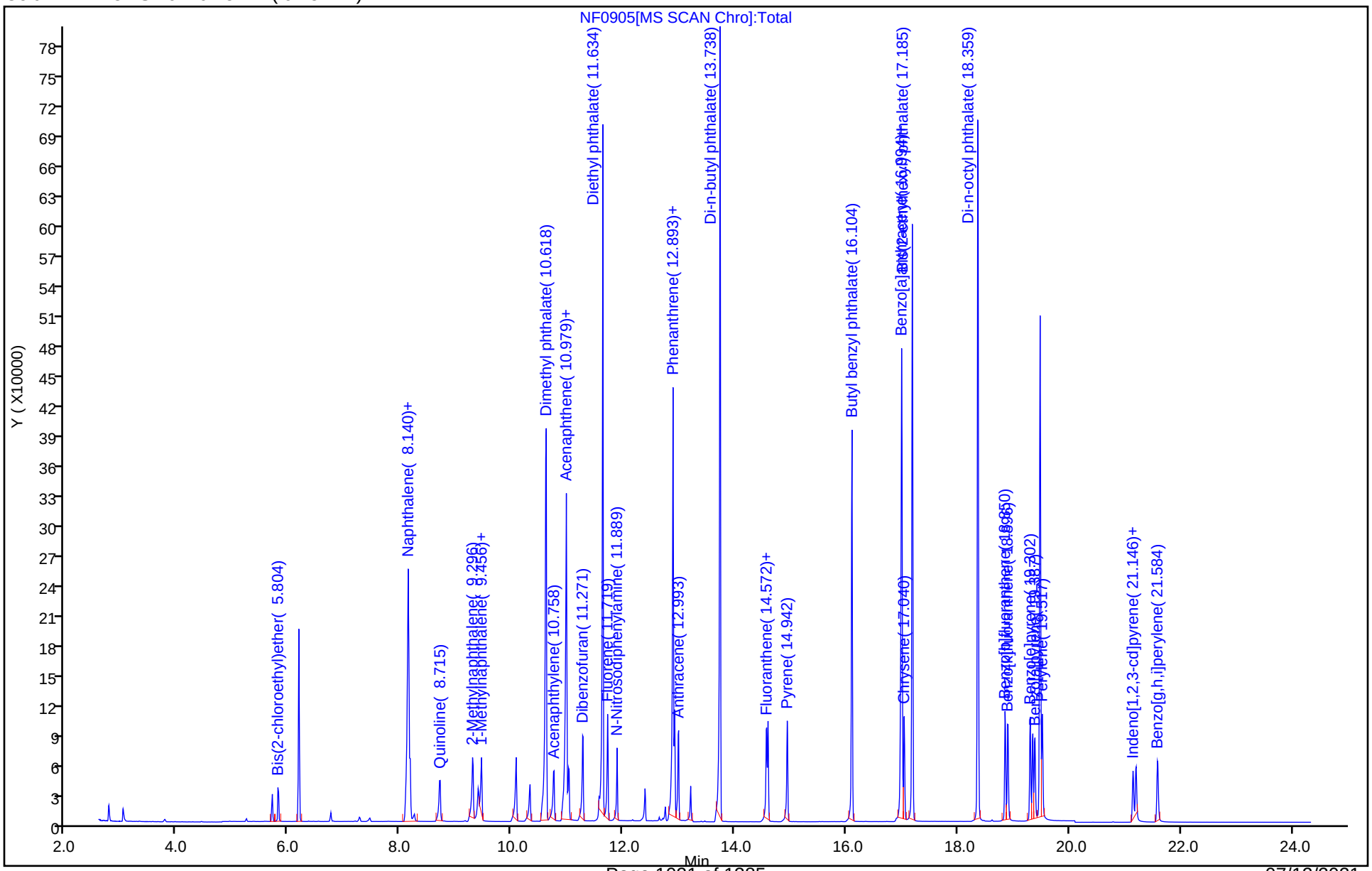
Report Date: 23-Jun-2021 03:48:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0905.D

Injection Date:	22-Jun-2021 08:42:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Jun-2021 09:12:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0032502-007
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:48:35 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: saadehw Date: 22-Jun-2021 13:39:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.771	2.771	0.000	96	2752	0.0100	0.0112	M
2 N-Nitrosodimethylamine	74	3.034	3.034	0.000	86	2475	0.0100	0.0100	M
3 Bis(2-chloroethyl)ether	93	5.804	5.804	0.000	94	7069	0.0100	0.0115	
* 4 1,4-Dichlorobenzene-d4	152	6.179	6.179	0.000	99	151122	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.141	8.141	0.000	100	513975	0.2500	0.2500	
6 Naphthalene	128	8.178	8.178	0.000	100	22749	0.0100	0.0107	
7 Quinoline	129	8.715	8.715	0.000	98	14960	0.0100	0.0113	
8 2-Methylnaphthalene	142	9.296	9.296	0.000	97	14856	0.0100	0.0103	
$ 9 1-Methylnaphthalene-d10	152	9.396	9.396	0.000	99	11160	0.0100	0.0102	
10 1-Methylnaphthalene	142	9.456	9.456	0.000	99	14004	0.0100	0.0104	
11 Dimethyl phthalate	163	10.618	10.618	0.000	98	358011	0.2500	0.2738	
12 Acenaphthylene	152	10.758	10.758	0.000	68	22257	0.0100	0.0106	
* 13 Acenaphthene-d10	164	10.979	10.979	0.000	96	272477	0.2500	0.2500	
14 Acenaphthene	154	11.029	11.029	0.000	68	11609	0.0100	0.009555	
15 Dibenzofuran	168	11.279	11.279	0.000	96	22254	0.0100	0.0109	
16 Diethyl phthalate	149	11.634	11.634	0.000	98	344510	0.2500	0.2679	
17 Fluorene	166	11.719	11.719	0.000	99	16732	0.0100	0.0107	
18 N-Nitrosodiphenylamine	169	11.889	11.889	0.000	97	9933	0.0100	0.0100	
19 Hexachlorobenzene	284	12.391	12.391	0.000	93	7988	0.0100	0.0110	
* 20 Phenanthrene-d10	188	12.893	12.893	0.000	100	547686	0.2500	0.2500	
21 Phenanthrene	178	12.923	12.923	0.000	100	27165	0.0100	0.0109	
22 Anthracene	178	12.985	12.985	0.000	100	22488	0.0100	0.0103	
23 Di-n-butyl phthalate	149	13.738	13.738	0.000	100	512656	0.2500	0.2587	
$ 24 Fluoranthene-d10 (Surr)	212	14.566	14.566	0.000	98	22499	0.0100	0.0100	
25 Fluoranthene	202	14.597	14.597	0.000	97	27073	0.0100	0.0105	
26 Pyrene	202	14.942	14.942	0.000	96	27628	0.0100	0.0107	
27 Butyl benzyl phthalate	149	16.104	16.104	0.000	100	216603	0.2500	0.2434	
28 Benzo[a]anthracene	228	16.978	16.978	0.000	19	25495	0.0100	0.0101	
* 29 Chrysene-d12	240	16.994	16.994	0.000	81	512652	0.2500	0.2500	
30 Chrysene	228	17.040	17.040	0.000	100	25862	0.0100	0.0109	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.186	17.186	0.000	99	296367	0.2500	0.2433	
32 Di-n-octyl phthalate	149	18.359	18.359	0.000	100	486217	0.2500	0.2575	
33 Benzo[b]fluoranthene	252	18.850	18.850	0.000	100	25112	0.0100	0.0099	
34 Benzo[k]fluoranthene	252	18.896	18.896	0.000	100	25891	0.0100	0.0103	
35 Benzo[e]pyrene	252	19.302	19.302	0.000	100	24136	0.0100	0.0100	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.341	19.341	0.000	98	18372	0.0100	0.009335	
37 Benzo[a]pyrene	252	19.379	19.379	0.000	100	21519	0.0100	0.009762	
* 38 Perylene-d12	264	19.479	19.479	0.000	95	533214	0.2500	0.2500	
39 Perylene	252	19.517	19.517	0.000	99	23744	0.0100	0.0101	
40 Indeno[1,2,3-cd]pyrene	276	21.146	21.146	0.000	95	13885	0.0100	0.007786	
41 Dibenz(a,h)anthracene	278	21.195	21.195	0.000	96	12430	0.0100	0.0125	
42 Benzo[g,h,i]perylene	276	21.584	21.584	0.000	96	19049	0.0100	0.008758	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00012 Amount Added: 1.00 Units: mL

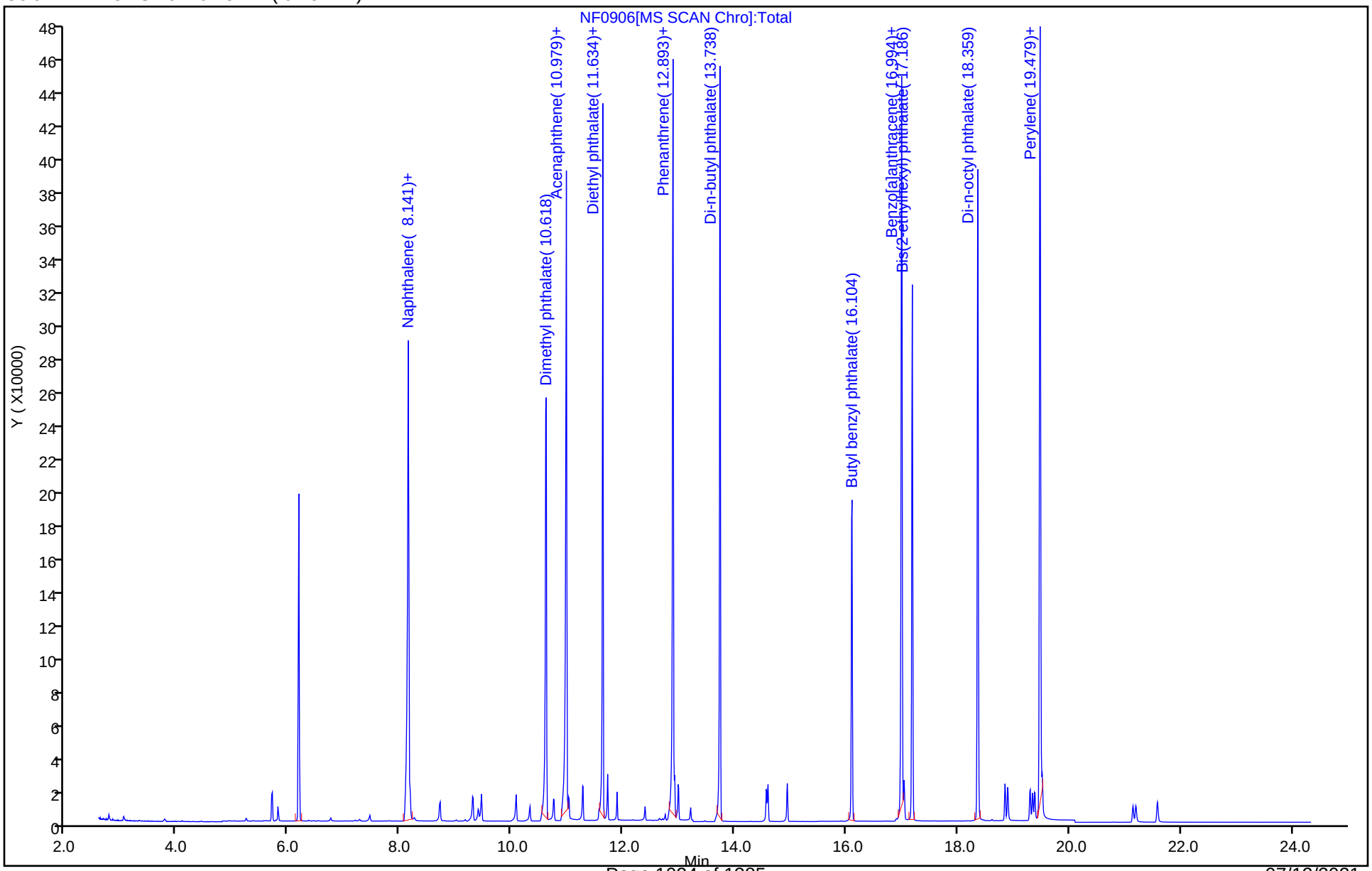
Report Date: 23-Jun-2021 03:48:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Injection Date:	22-Jun-2021 09:12:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

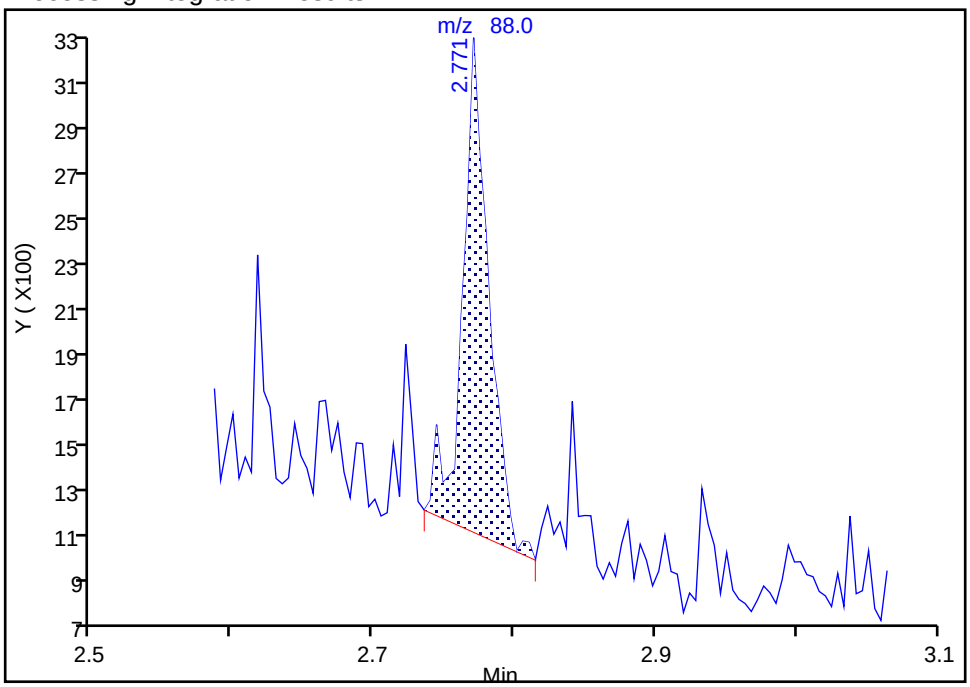
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Injection Date:	22-Jun-2021 09:12:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

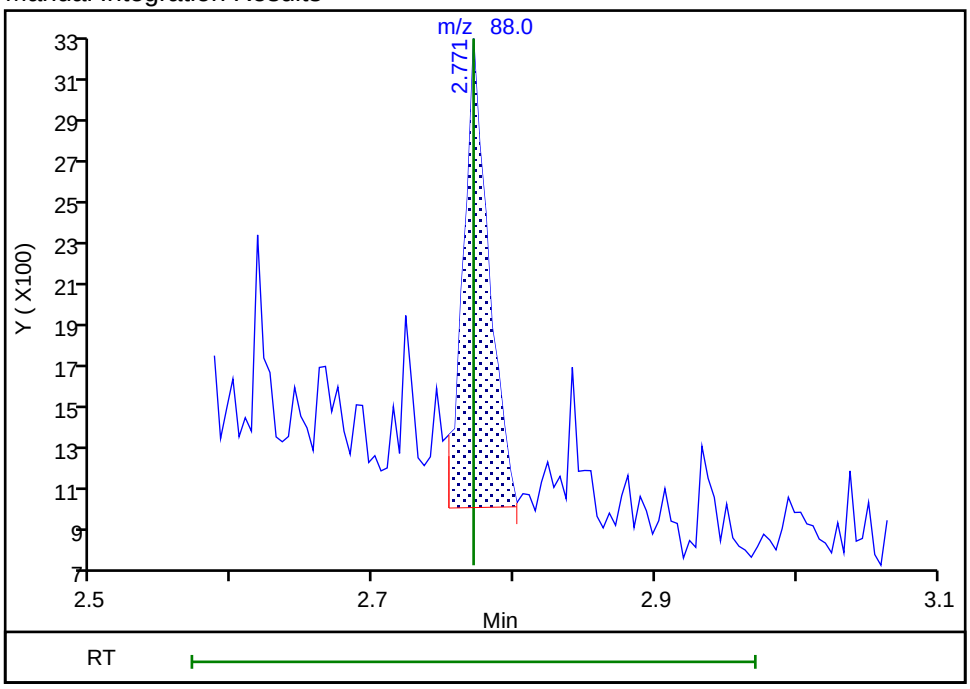
Processing Integration Results

RT: 2.77
Area: 2721
Amount: 0.011049
Amount Units: ug/ml



Manual Integration Results

RT: 2.77
Area: 2752
Amount: 0.011152
Amount Units: ug/ml



Reviewer: gamblerj, 23-Jun-2021 03:33:18

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

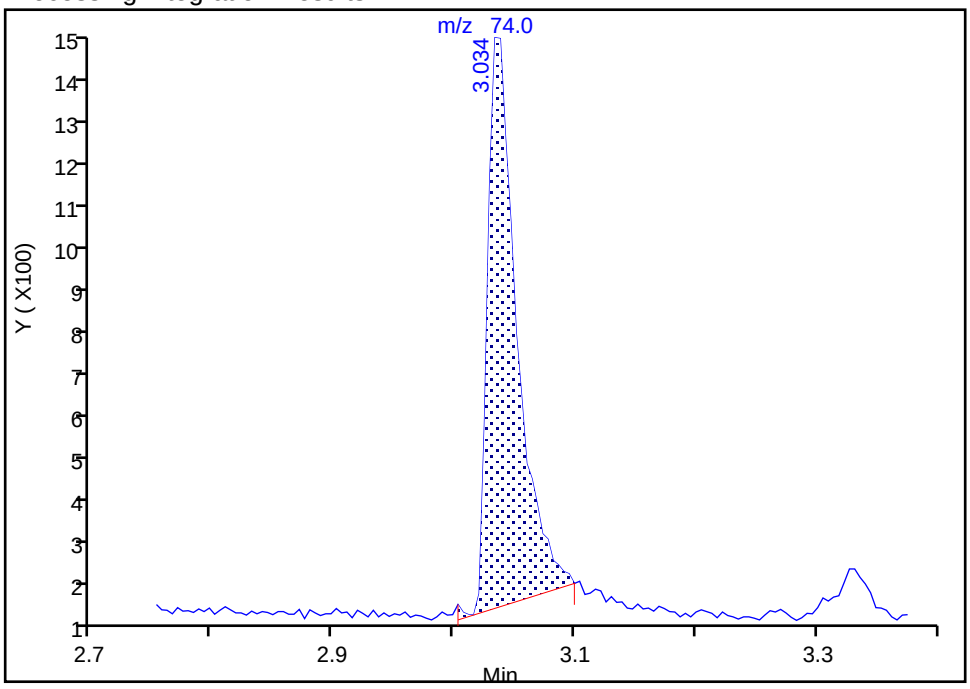
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D
Injection Date: 22-Jun-2021 09:12:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

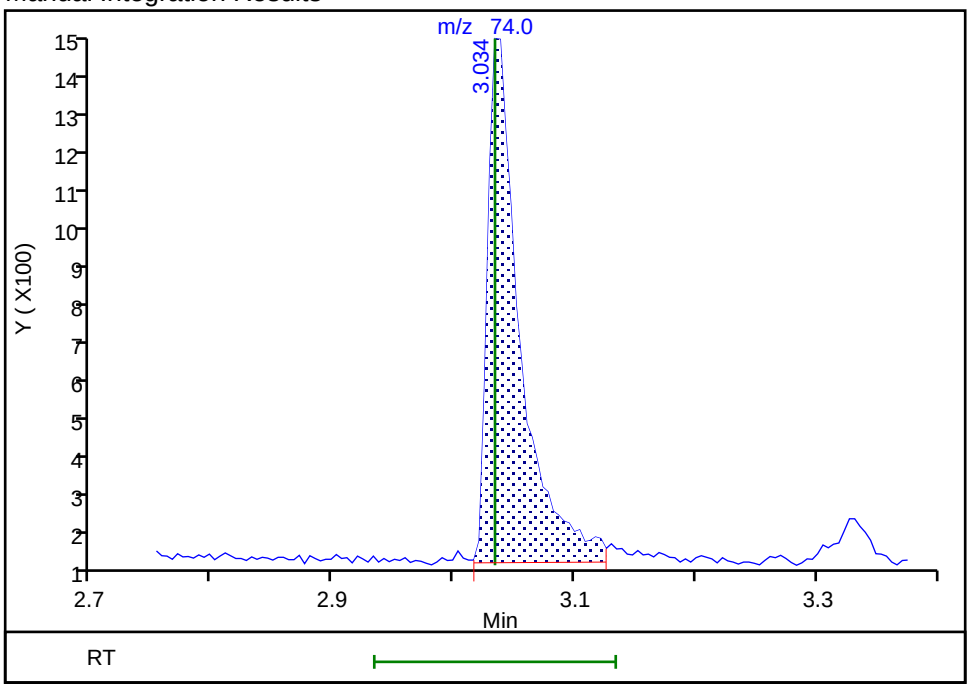
Processing Integration Results

RT: 3.03
Area: 2181
Amount: 0.008986
Amount Units: ug/ml



Manual Integration Results

RT: 3.03
Area: 2475
Amount: 0.009996
Amount Units: ug/ml



Reviewer: gamblerj, 23-Jun-2021 03:33:27
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

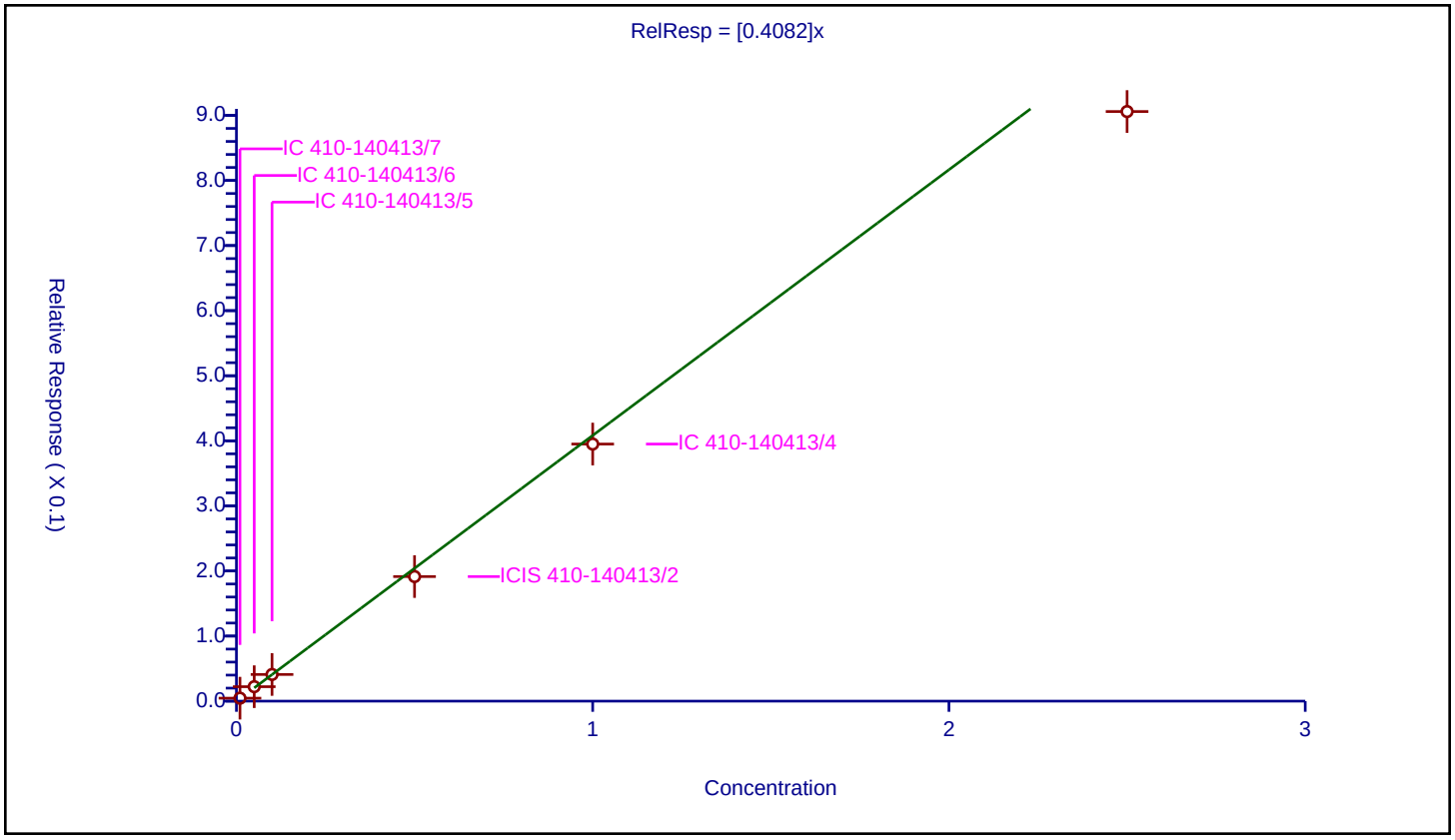
Curve Coefficients

Intercept:	0
Slope:	0.4082

Error Coefficients

Standard Error:	292000
Relative Standard Error:	8.8
Correlation Coefficient:	0.974
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.004553	0.25	151122.0	0.455261	Y
2	IC 410-140413/6	0.05	0.02221	0.25	145872.0	0.444191	Y
3	IC 410-140413/5	0.1	0.040985	0.25	152178.0	0.409849	Y
4	ICIS 410-140413/2	0.5	0.191405	0.25	266919.0	0.382811	Y
5	IC 410-140413/4	1.0	0.395008	0.25	149173.0	0.395008	Y
6	IC 410-140413/3	2.5	0.905931	0.25	158221.0	0.362372	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

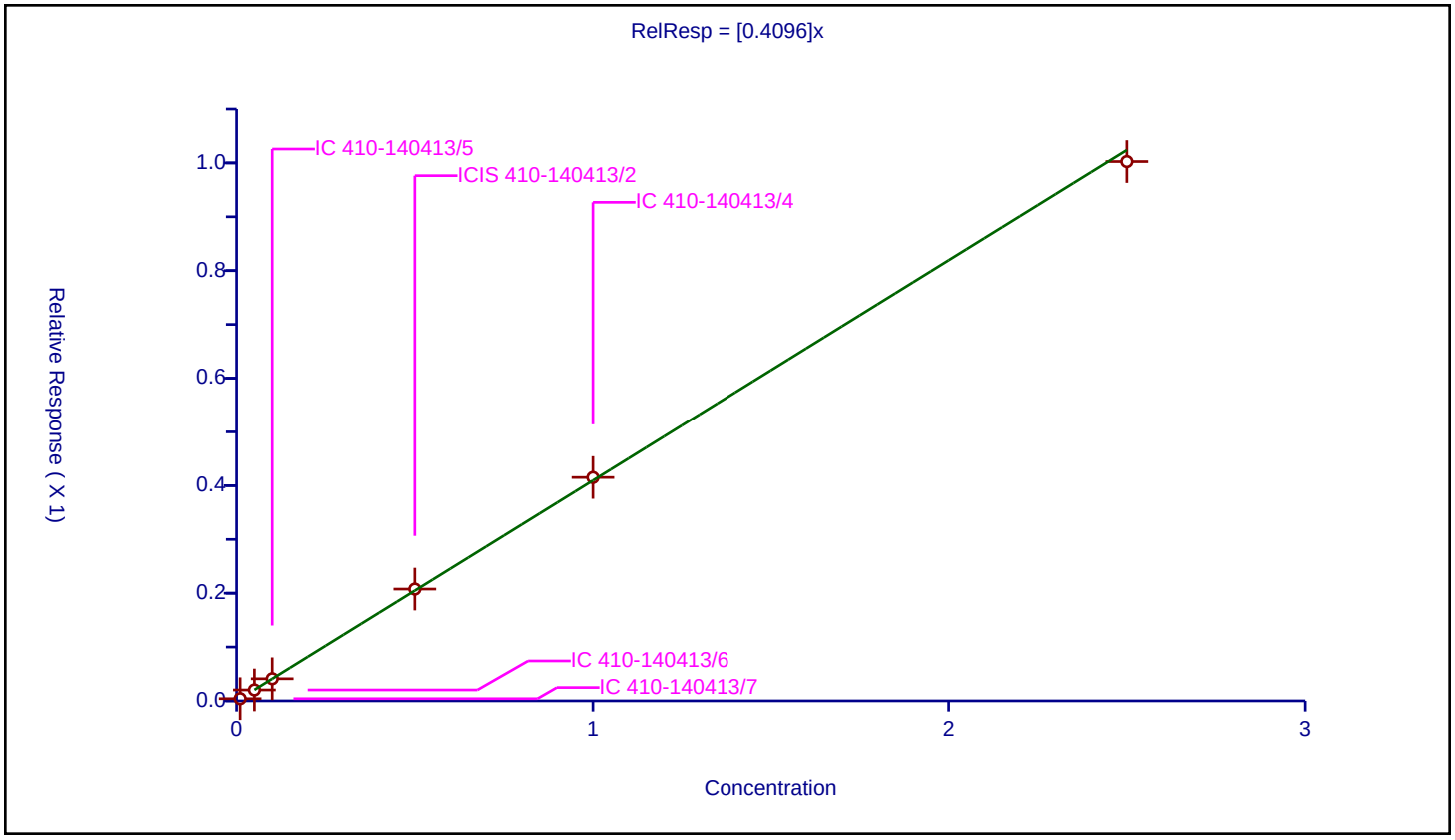
Curve Coefficients

Intercept:	0
Slope:	0.4096

Error Coefficients

Standard Error:	321000
Relative Standard Error:	1.4
Correlation Coefficient:	0.974
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.004094	0.25	151122.0	0.409437	Y
2	IC 410-140413/6	0.05	0.020283	0.25	145872.0	0.405664	Y
3	IC 410-140413/5	0.1	0.041088	0.25	152178.0	0.410884	Y
4	ICIS 410-140413/2	0.5	0.207713	0.25	266919.0	0.415426	Y
5	IC 410-140413/4	1.0	0.415214	0.25	149173.0	0.415214	Y
6	IC 410-140413/3	2.5	1.002576	0.25	158221.0	0.40103	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

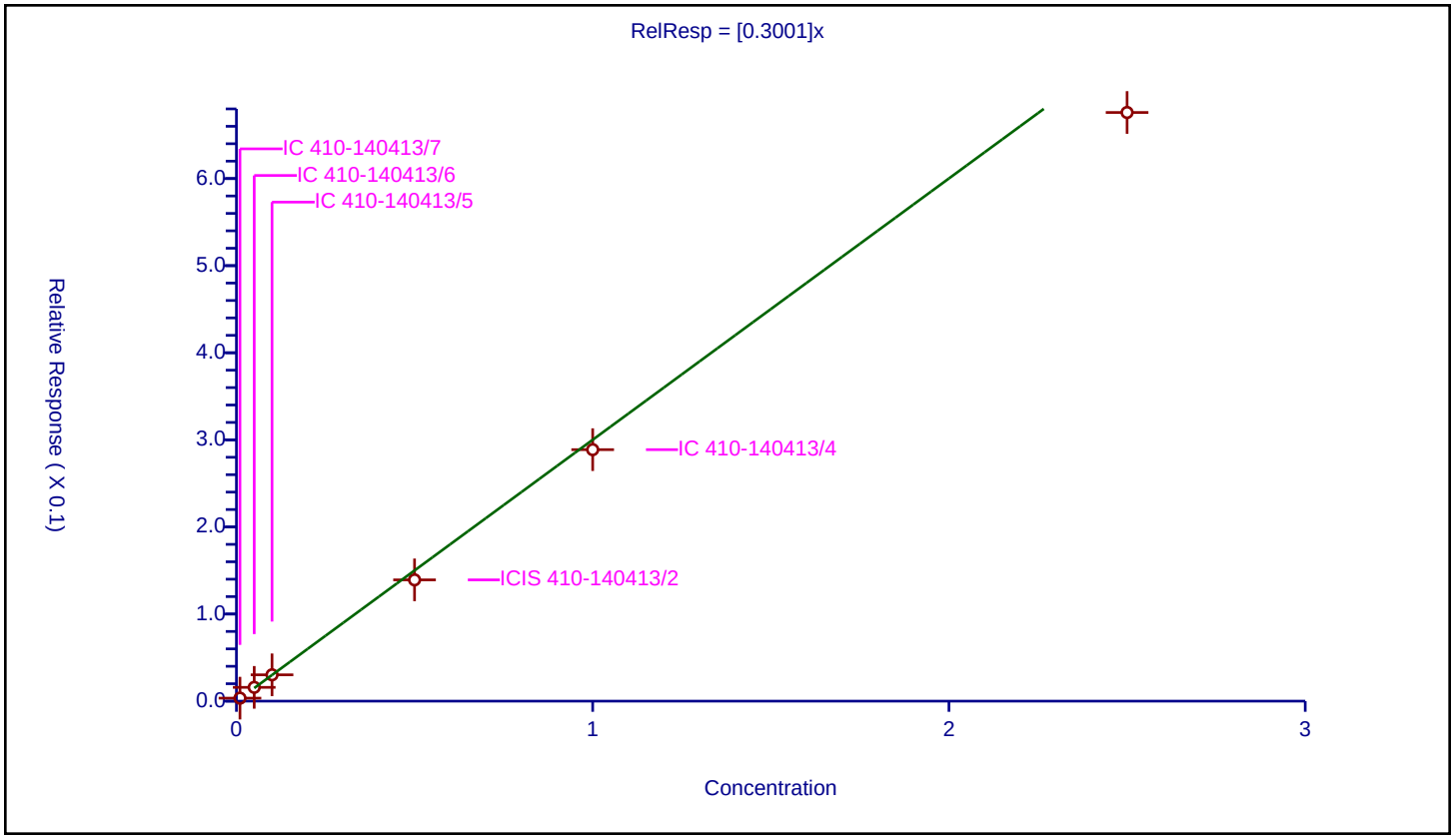
Curve Coefficients

Intercept:	0
Slope:	0.3001

Error Coefficients

Standard Error:	750000
Relative Standard Error:	9.0
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.003438	0.25	513975.0	0.34384	Y
2	IC 410-140413/6	0.05	0.015832	0.25	495934.0	0.316635	Y
3	IC 410-140413/5	0.1	0.03023	0.25	533995.0	0.302302	Y
4	ICIS 410-140413/2	0.5	0.139262	0.25	908604.0	0.278523	Y
5	IC 410-140413/4	1.0	0.288751	0.25	520660.0	0.288751	Y
6	IC 410-140413/3	2.5	0.675884	0.25	547735.0	0.270354	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

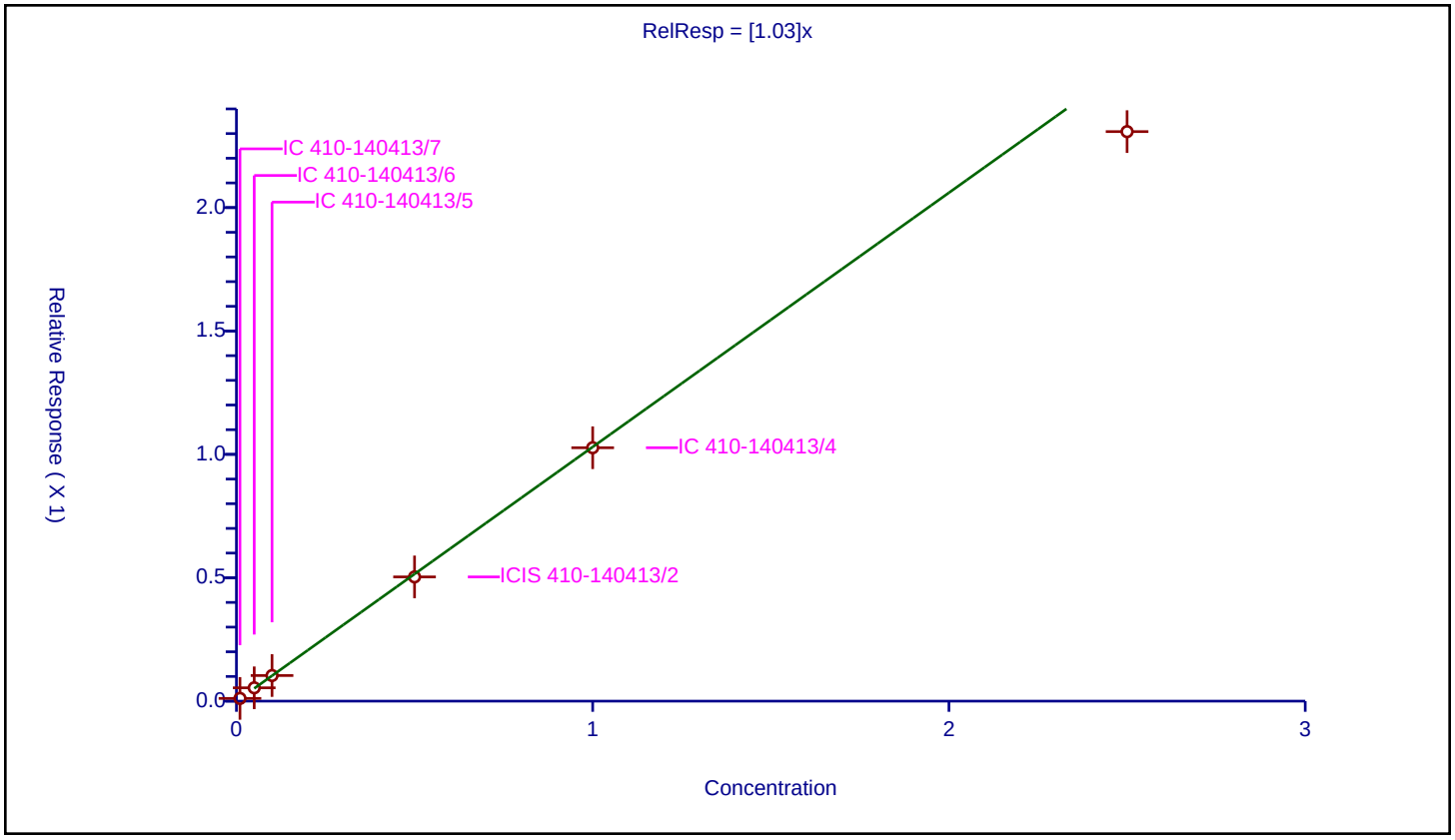
Curve Coefficients

Intercept:	0
Slope:	1.03

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	6.2
Correlation Coefficient:	0.972
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.011065	0.25	513975.0	1.106523	Y
2	IC 410-140413/6	0.05	0.053972	0.25	495934.0	1.079438	Y
3	IC 410-140413/5	0.1	0.103784	0.25	533995.0	1.037842	Y
4	ICIS 410-140413/2	0.5	0.50349	0.25	908604.0	1.00698	Y
5	IC 410-140413/4	1.0	1.026874	0.25	520660.0	1.026874	Y
6	IC 410-140413/3	2.5	2.307917	0.25	547735.0	0.923167	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

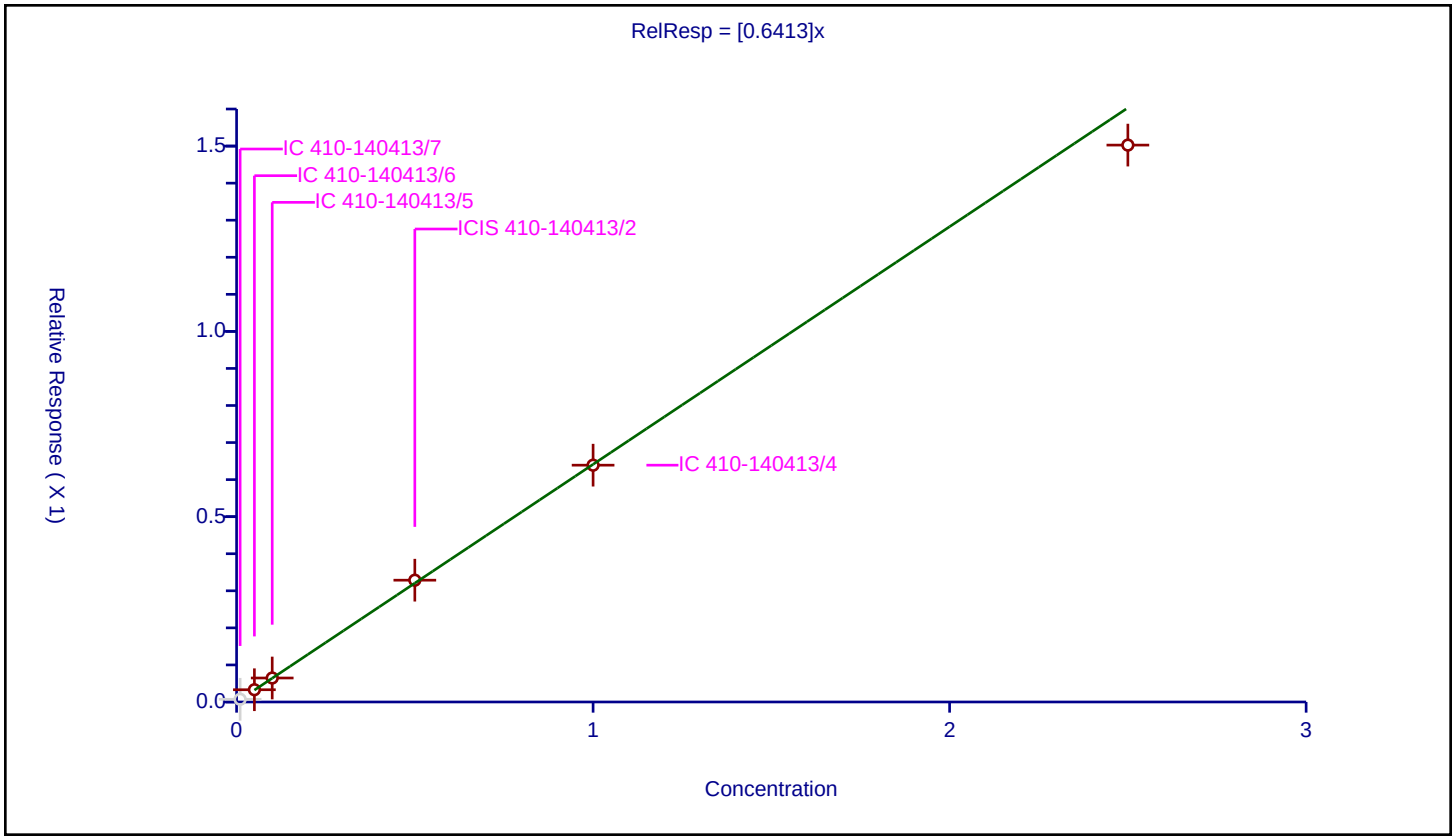
Curve Coefficients

Intercept:	0
Slope:	0.6413

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	3.8
Correlation Coefficient:	0.968
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.007277	0.25	513975.0	0.727662	N
2	IC 410-140413/6	0.05	0.033097	0.25	495934.0	0.661943	Y
3	IC 410-140413/5	0.1	0.064706	0.25	533995.0	0.647061	Y
4	ICIS 410-140413/2	0.5	0.328647	0.25	908604.0	0.657294	Y
5	IC 410-140413/4	1.0	0.638964	0.25	520660.0	0.638964	Y
6	IC 410-140413/3	2.5	1.502654	0.25	547735.0	0.601062	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

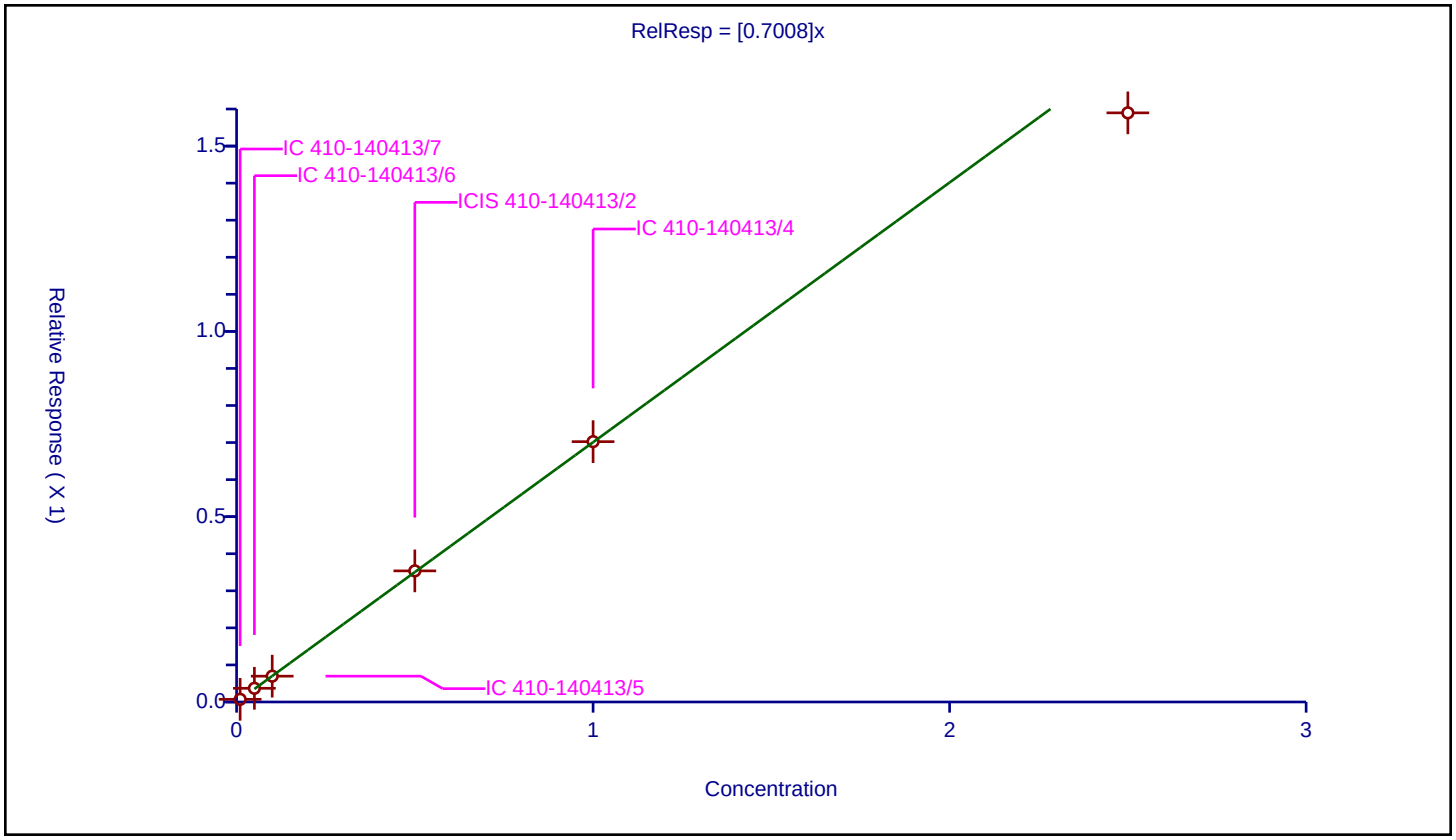
Curve Coefficients

Intercept:	0
Slope:	0.7008

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	5.0
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.007226	0.25	513975.0	0.722603	Y
2	IC 410-140413/6	0.05	0.036978	0.25	495934.0	0.739554	Y
3	IC 410-140413/5	0.1	0.06971	0.25	533995.0	0.697104	Y
4	ICIS 410-140413/2	0.5	0.353727	0.25	908604.0	0.707453	Y
5	IC 410-140413/4	1.0	0.702483	0.25	520660.0	0.702483	Y
6	IC 410-140413/3	2.5	1.58961	0.25	547735.0	0.635844	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

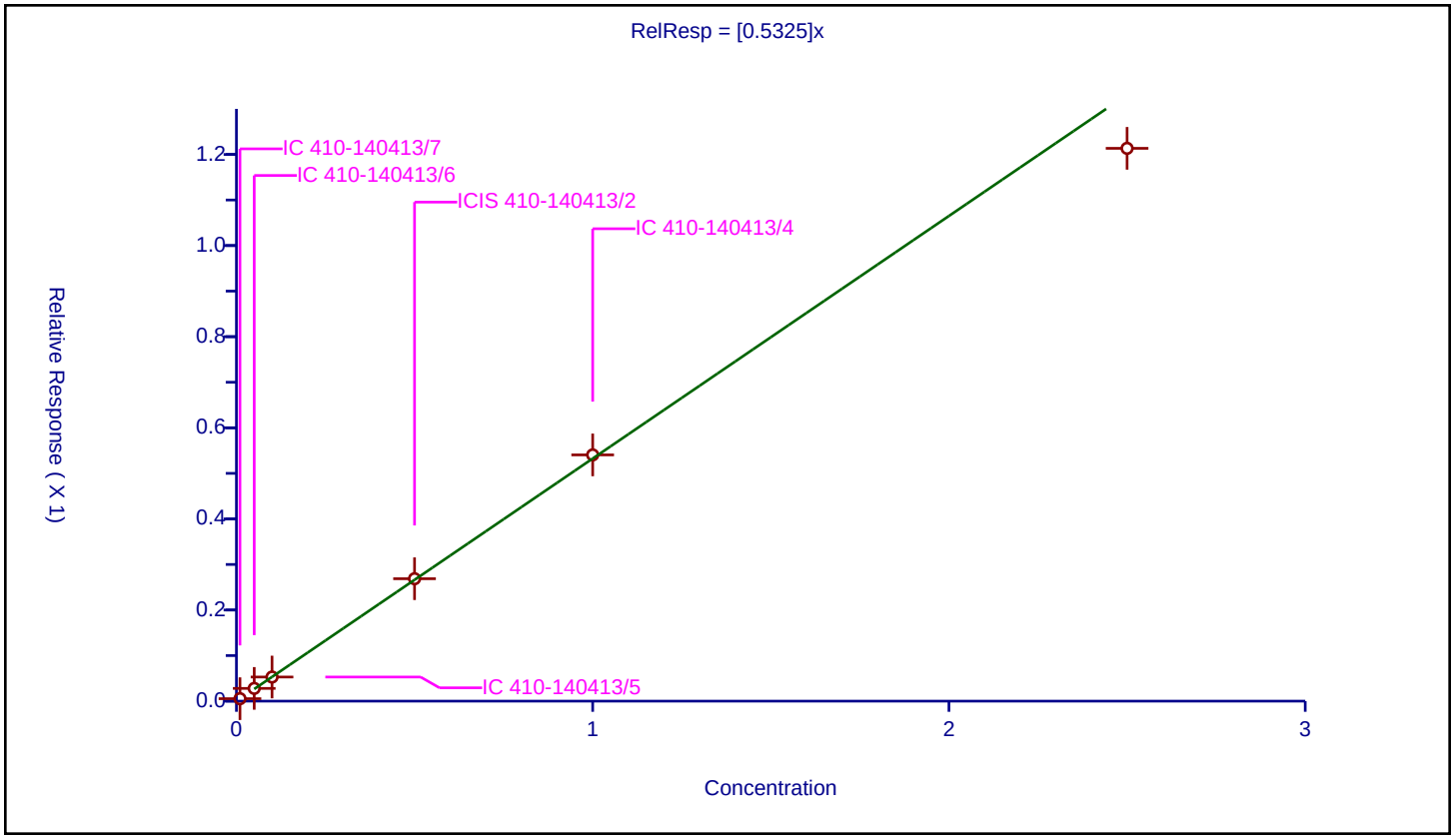
Curve Coefficients

Intercept:	0
Slope:	0.5325

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	4.7
Correlation Coefficient:	0.970
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.005428	0.25	513975.0	0.542828	Y
2	IC 410-140413/6	0.05	0.027977	0.25	495934.0	0.55953	Y
3	IC 410-140413/5	0.1	0.052934	0.25	533995.0	0.529335	Y
4	ICIS 410-140413/2	0.5	0.268713	0.25	908604.0	0.537427	Y
5	IC 410-140413/4	1.0	0.540521	0.25	520660.0	0.540521	Y
6	IC 410-140413/3	2.5	1.213408	0.25	547735.0	0.485363	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

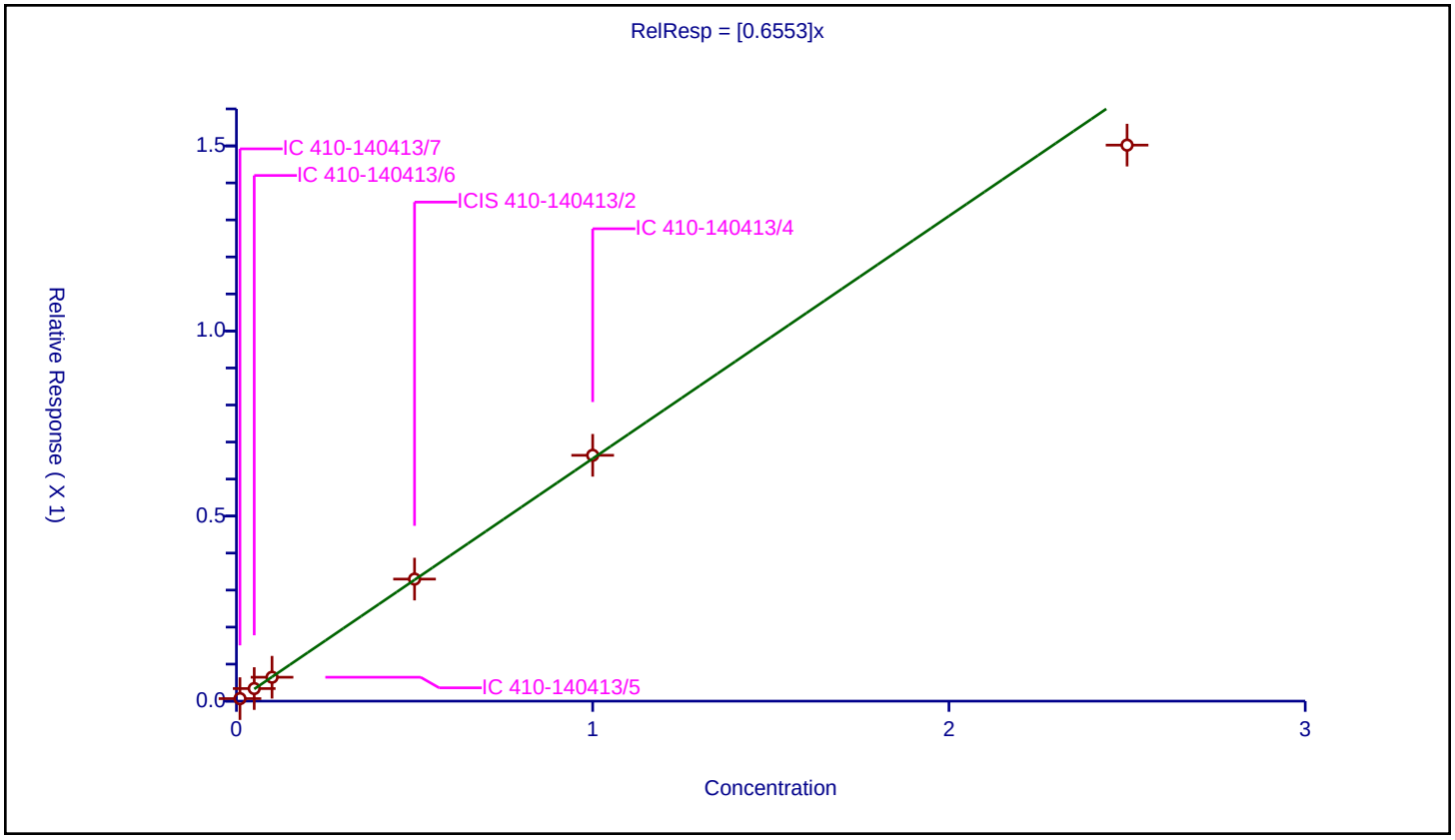
Curve Coefficients

Intercept:	0
Slope:	0.6553

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	4.5
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.006812	0.25	513975.0	0.681162	Y
2	IC 410-140413/6	0.05	0.034015	0.25	495934.0	0.680292	Y
3	IC 410-140413/5	0.1	0.064575	0.25	533995.0	0.64575	Y
4	ICIS 410-140413/2	0.5	0.329734	0.25	908604.0	0.659469	Y
5	IC 410-140413/4	1.0	0.664192	0.25	520660.0	0.664192	Y
6	IC 410-140413/3	2.5	1.502158	0.25	547735.0	0.600863	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

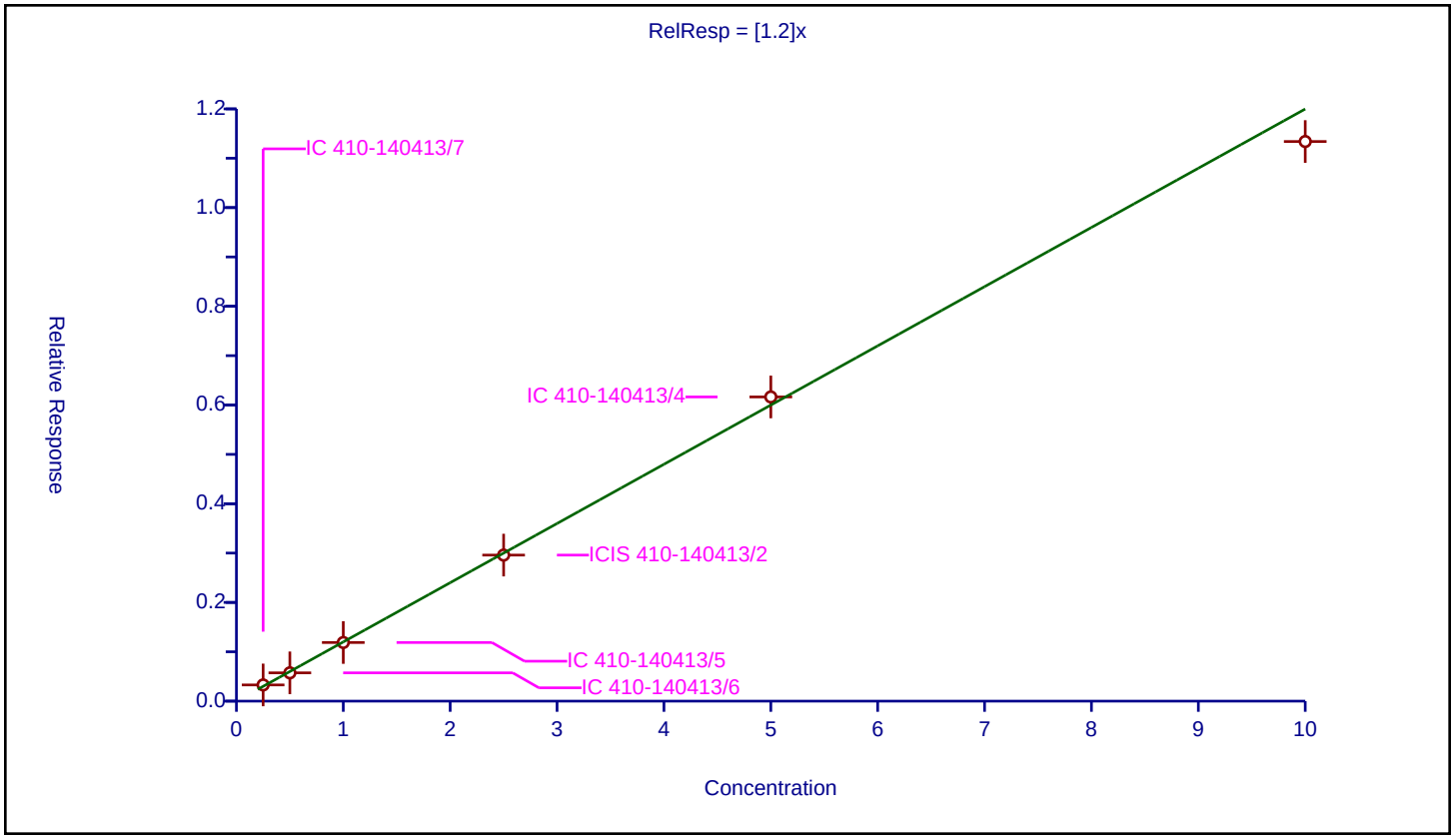
Curve Coefficients

Intercept:	0
Slope:	1.2

Error Coefficients

Standard Error:	7110000
Relative Standard Error:	5.5
Correlation Coefficient:	0.956
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.25	0.328478	0.25	272477.0	1.313913	Y
2	IC 410-140413/6	0.5	0.573153	0.25	269786.0	1.146307	Y
3	IC 410-140413/5	1.0	1.188054	0.25	291507.0	1.188054	Y
4	ICIS 410-140413/2	2.5	2.959332	0.25	493724.0	1.183733	Y
5	IC 410-140413/4	5.0	6.163407	0.25	284244.0	1.232681	Y
6	IC 410-140413/3	10.0	11.339173	0.25	285042.0	1.133917	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

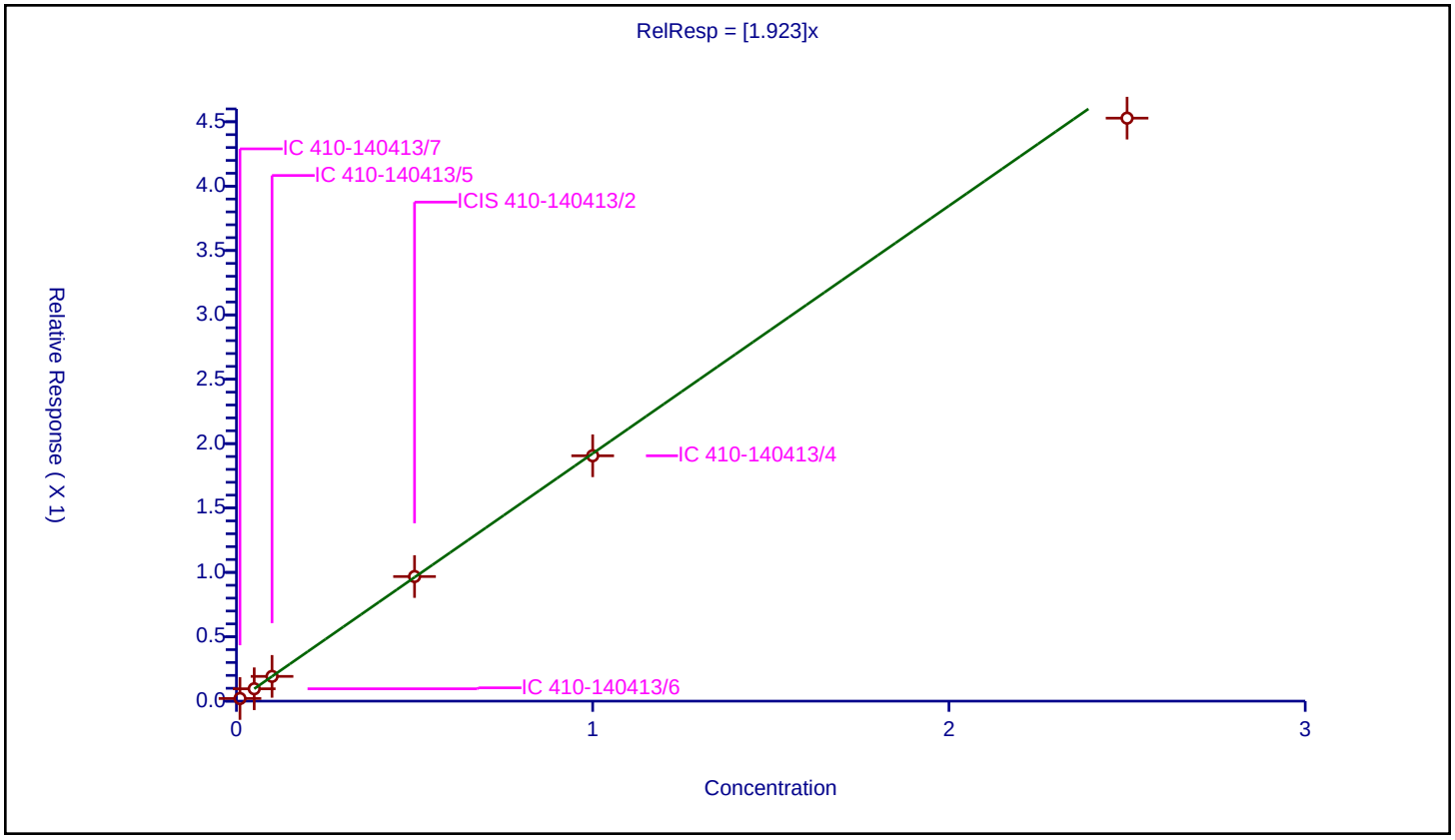
Curve Coefficients

Intercept:	0
Slope:	1.923

Error Coefficients

Standard Error:	2650000
Relative Standard Error:	3.8
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.020421	0.25	272477.0	2.042099	Y
2	IC 410-140413/6	0.05	0.096121	0.25	269786.0	1.922413	Y
3	IC 410-140413/5	0.1	0.192373	0.25	291507.0	1.923727	Y
4	ICIS 410-140413/2	0.5	0.967741	0.25	493724.0	1.935482	Y
5	IC 410-140413/4	1.0	1.905725	0.25	284244.0	1.905725	Y
6	IC 410-140413/3	2.5	4.528163	0.25	285042.0	1.811265	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

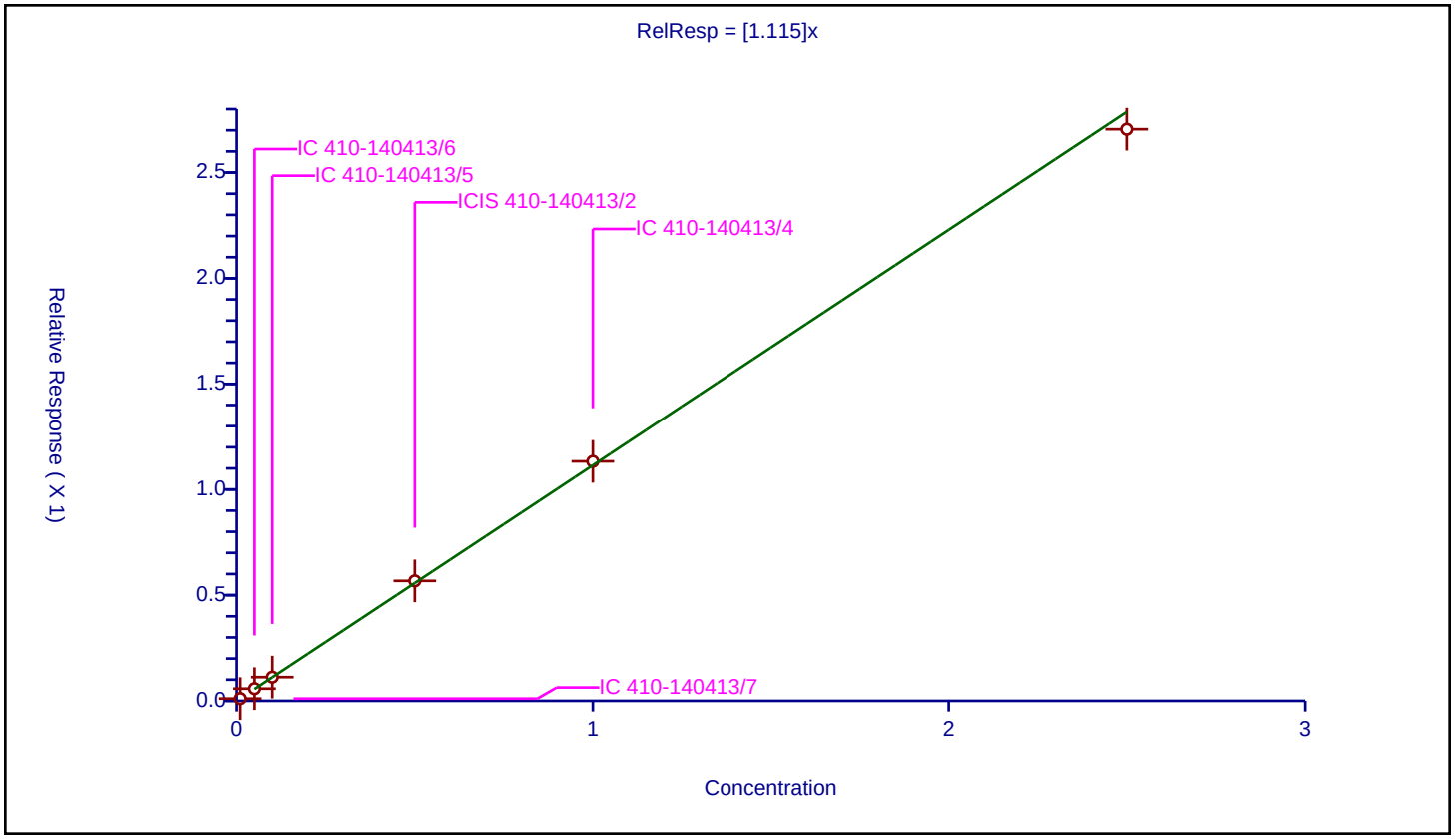
Curve Coefficients

Intercept:	0
Slope:	1.115

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	3.0
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.010651	0.25	272477.0	1.065136	Y
2	IC 410-140413/6	0.05	0.057582	0.25	269786.0	1.151635	Y
3	IC 410-140413/5	0.1	0.11213	0.25	291507.0	1.121302	Y
4	ICIS 410-140413/2	0.5	0.567588	0.25	493724.0	1.135176	Y
5	IC 410-140413/4	1.0	1.133267	0.25	284244.0	1.133267	Y
6	IC 410-140413/3	2.5	2.704925	0.25	285042.0	1.08197	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

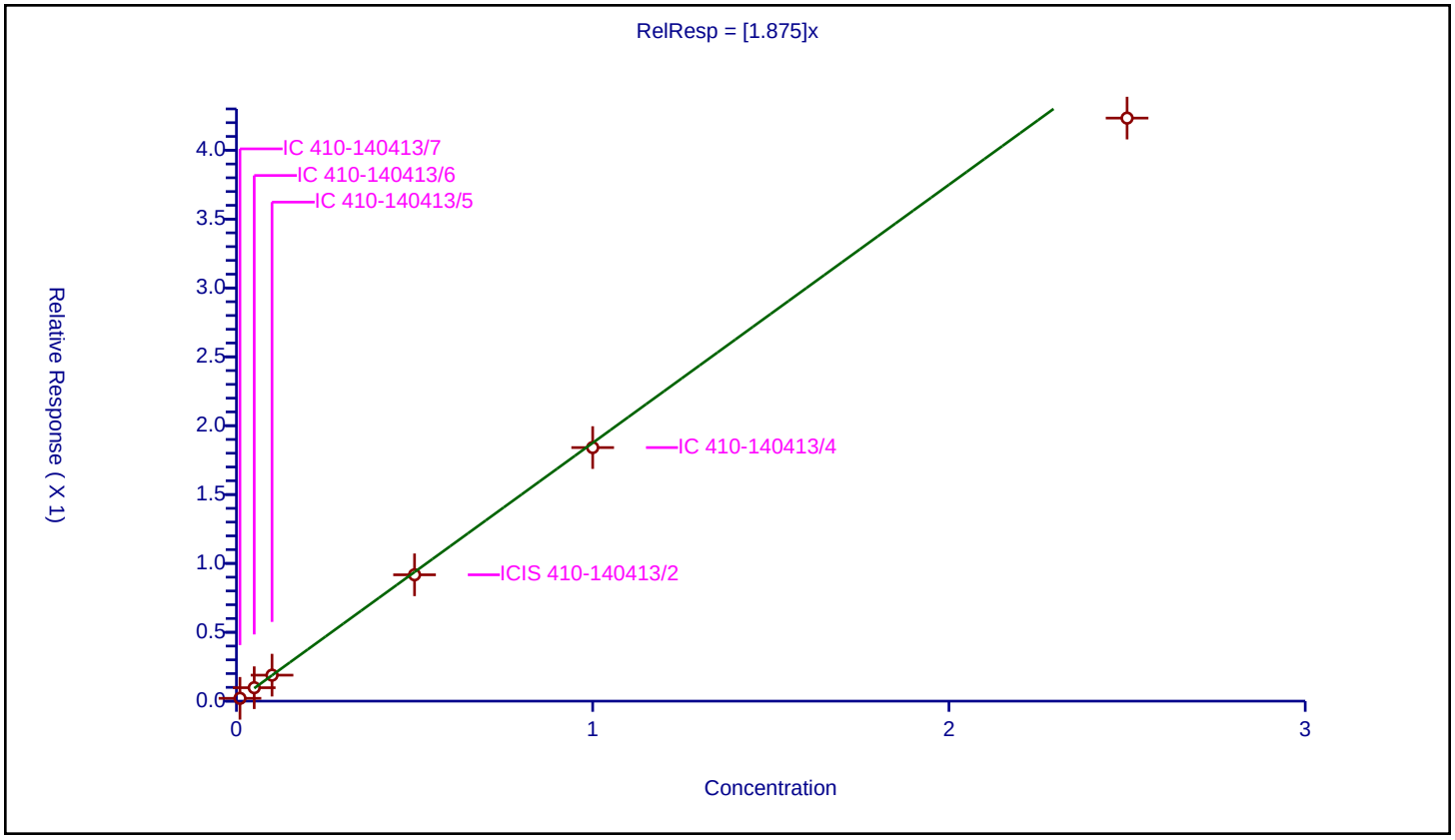
Curve Coefficients

Intercept:	0
Slope:	1.875

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	6.3
Correlation Coefficient:	0.968
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.020418	0.25	272477.0	2.041824	Y
2	IC 410-140413/6	0.05	0.097553	0.25	269786.0	1.951065	Y
3	IC 410-140413/5	0.1	0.188657	0.25	291507.0	1.886567	Y
4	ICIS 410-140413/2	0.5	0.917365	0.25	493724.0	1.83473	Y
5	IC 410-140413/4	1.0	1.84098	0.25	284244.0	1.84098	Y
6	IC 410-140413/3	2.5	4.233198	0.25	285042.0	1.693279	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

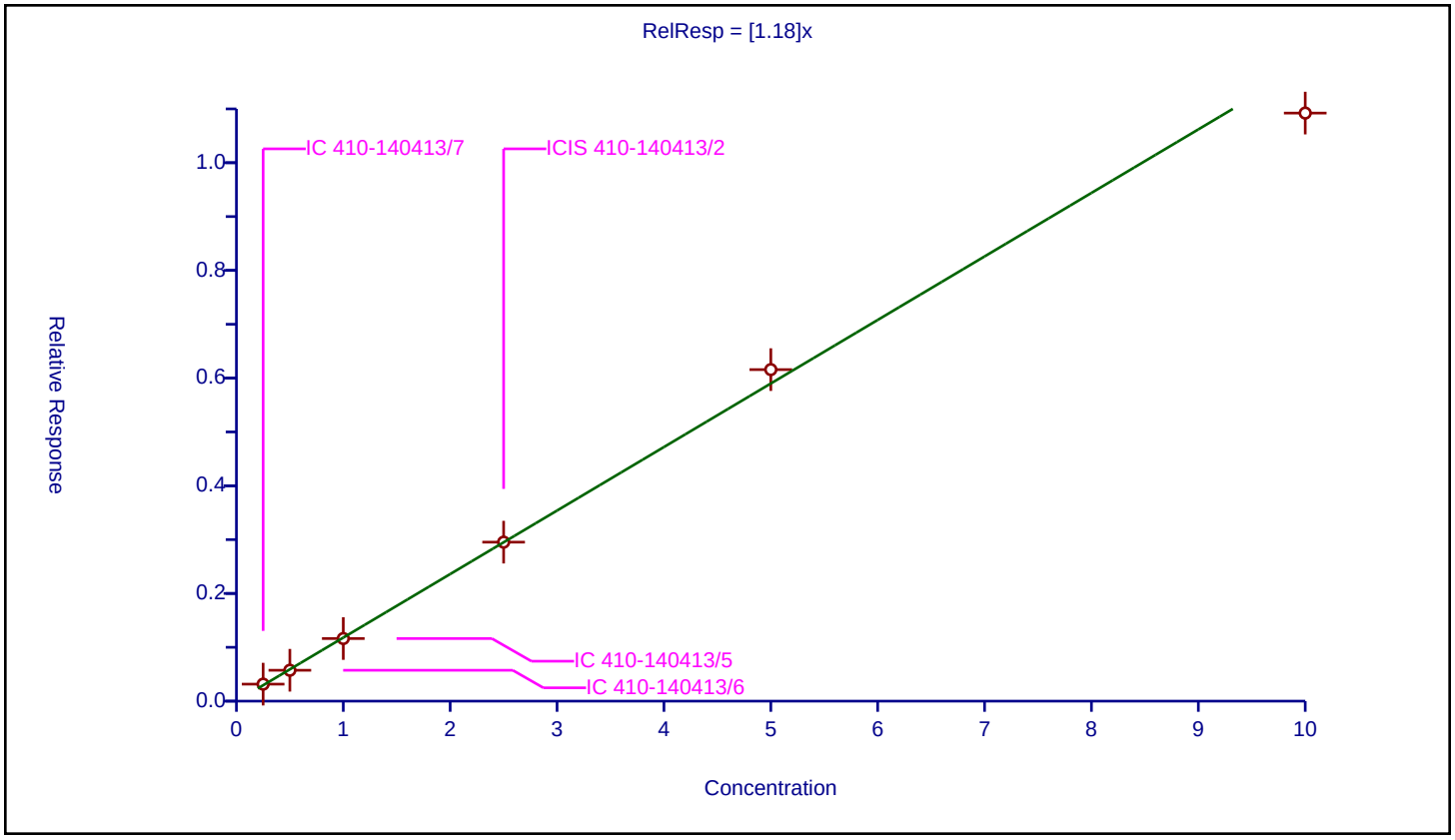
Curve Coefficients

Intercept:	0
Slope:	1.18

Error Coefficients

Standard Error:	6930000
Relative Standard Error:	5.2
Correlation Coefficient:	0.949
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.25	0.316091	0.25	272477.0	1.264364	Y
2	IC 410-140413/6	0.5	0.573679	0.25	269786.0	1.147358	Y
3	IC 410-140413/5	1.0	1.162801	0.25	291507.0	1.162801	Y
4	ICIS 410-140413/2	2.5	2.953055	0.25	493724.0	1.181222	Y
5	IC 410-140413/4	5.0	6.157651	0.25	284244.0	1.23153	Y
6	IC 410-140413/3	10.0	10.922306	0.25	285042.0	1.092231	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

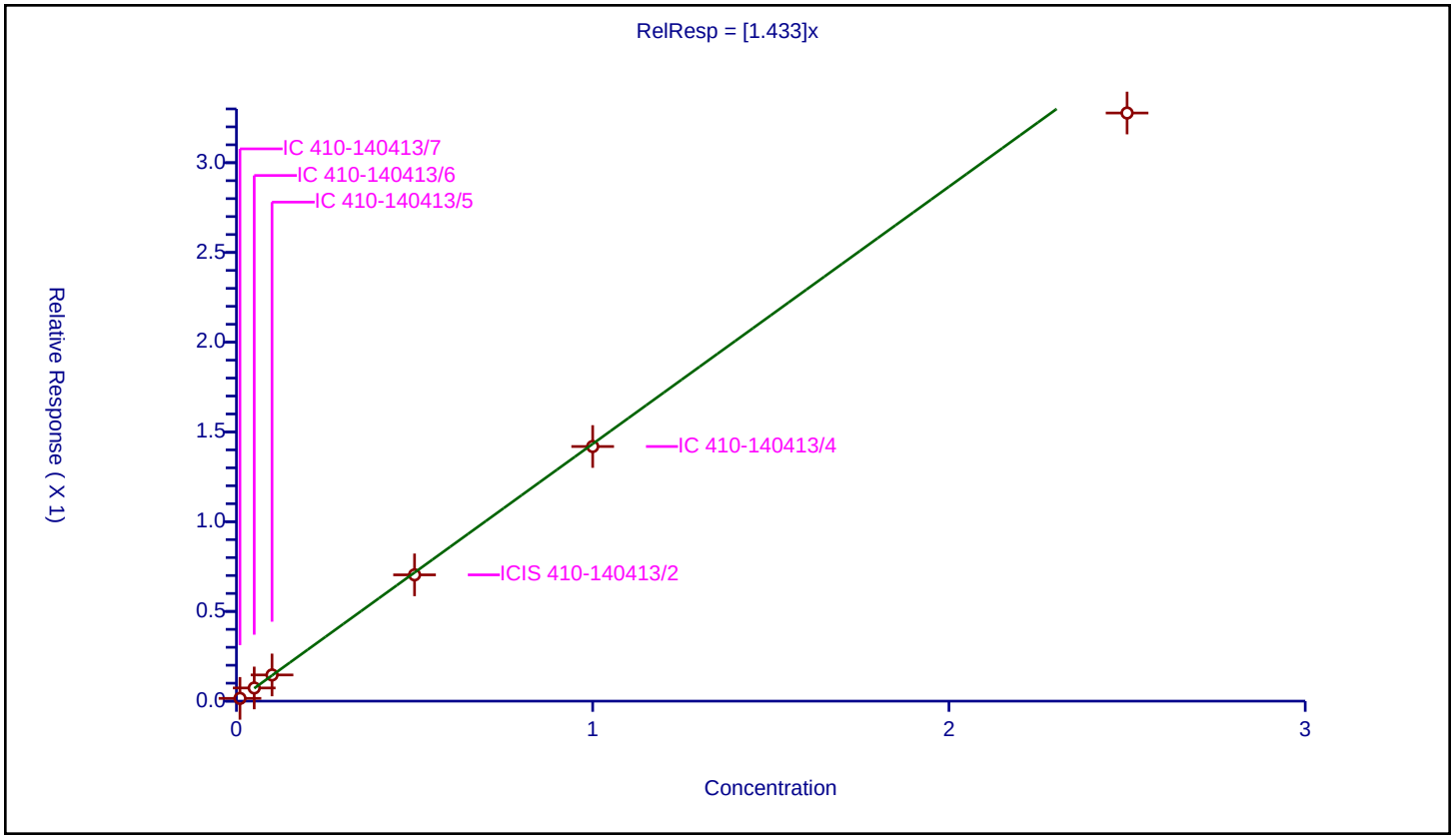
Curve Coefficients

Intercept:	0
Slope:	1.433

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	5.2
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.015352	0.25	272477.0	1.535175	Y
2	IC 410-140413/6	0.05	0.073375	0.25	269786.0	1.467496	Y
3	IC 410-140413/5	0.1	0.145997	0.25	291507.0	1.459974	Y
4	ICIS 410-140413/2	0.5	0.703692	0.25	493724.0	1.407384	Y
5	IC 410-140413/4	1.0	1.418749	0.25	284244.0	1.418749	Y
6	IC 410-140413/3	2.5	3.277129	0.25	285042.0	1.310852	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

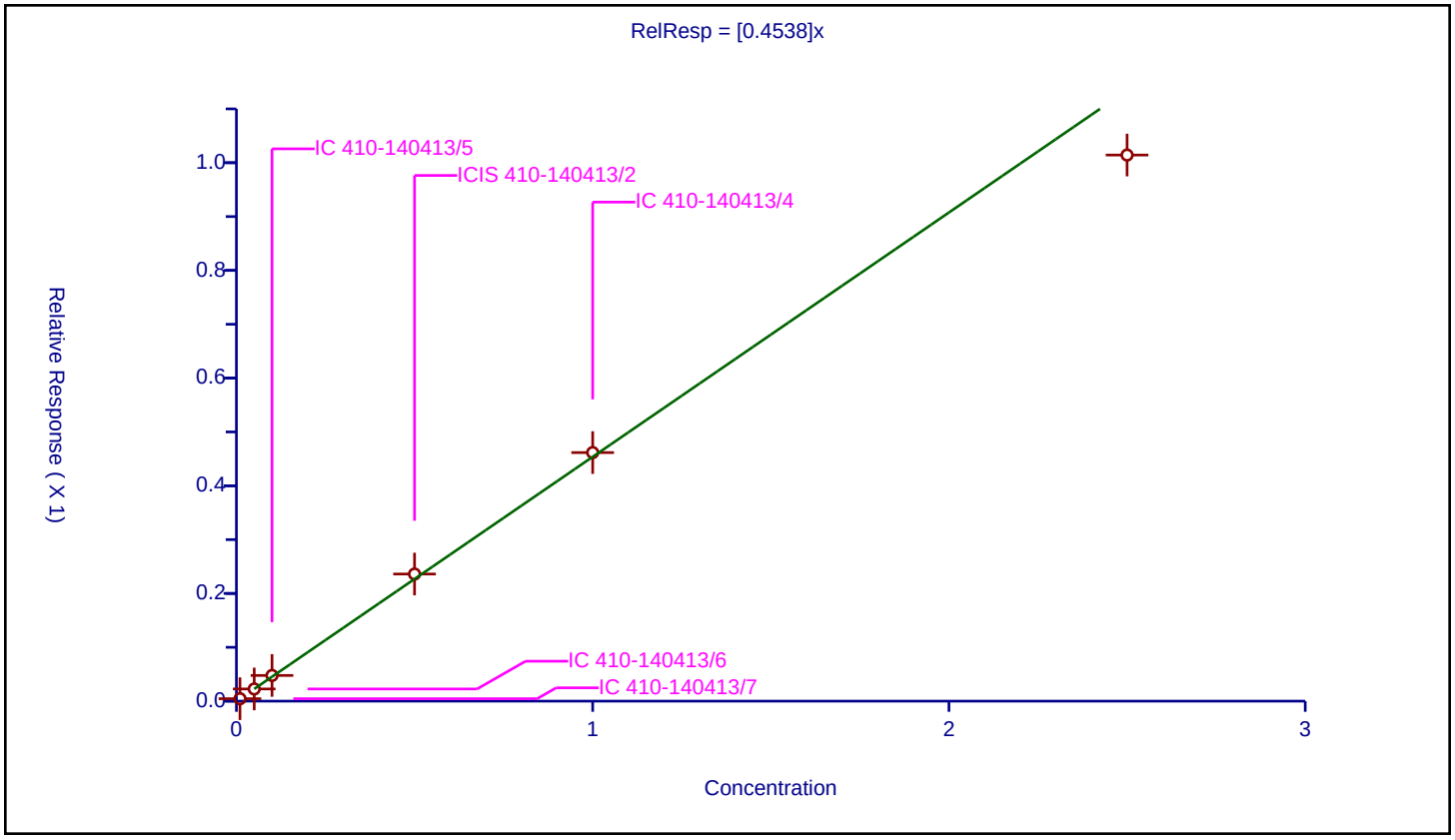
Curve Coefficients

Intercept:	0
Slope:	0.4538

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	5.6
Correlation Coefficient:	0.953
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.004534	0.25	547686.0	0.453408	Y
2	IC 410-140413/6	0.05	0.022633	0.25	544491.0	0.452652	Y
3	IC 410-140413/5	0.1	0.047701	0.25	583143.0	0.47701	Y
4	ICIS 410-140413/2	0.5	0.23611	0.25	1002213.0	0.472219	Y
5	IC 410-140413/4	1.0	0.461672	0.25	563471.0	0.461672	Y
6	IC 410-140413/3	2.5	1.01425	0.25	563984.0	0.4057	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

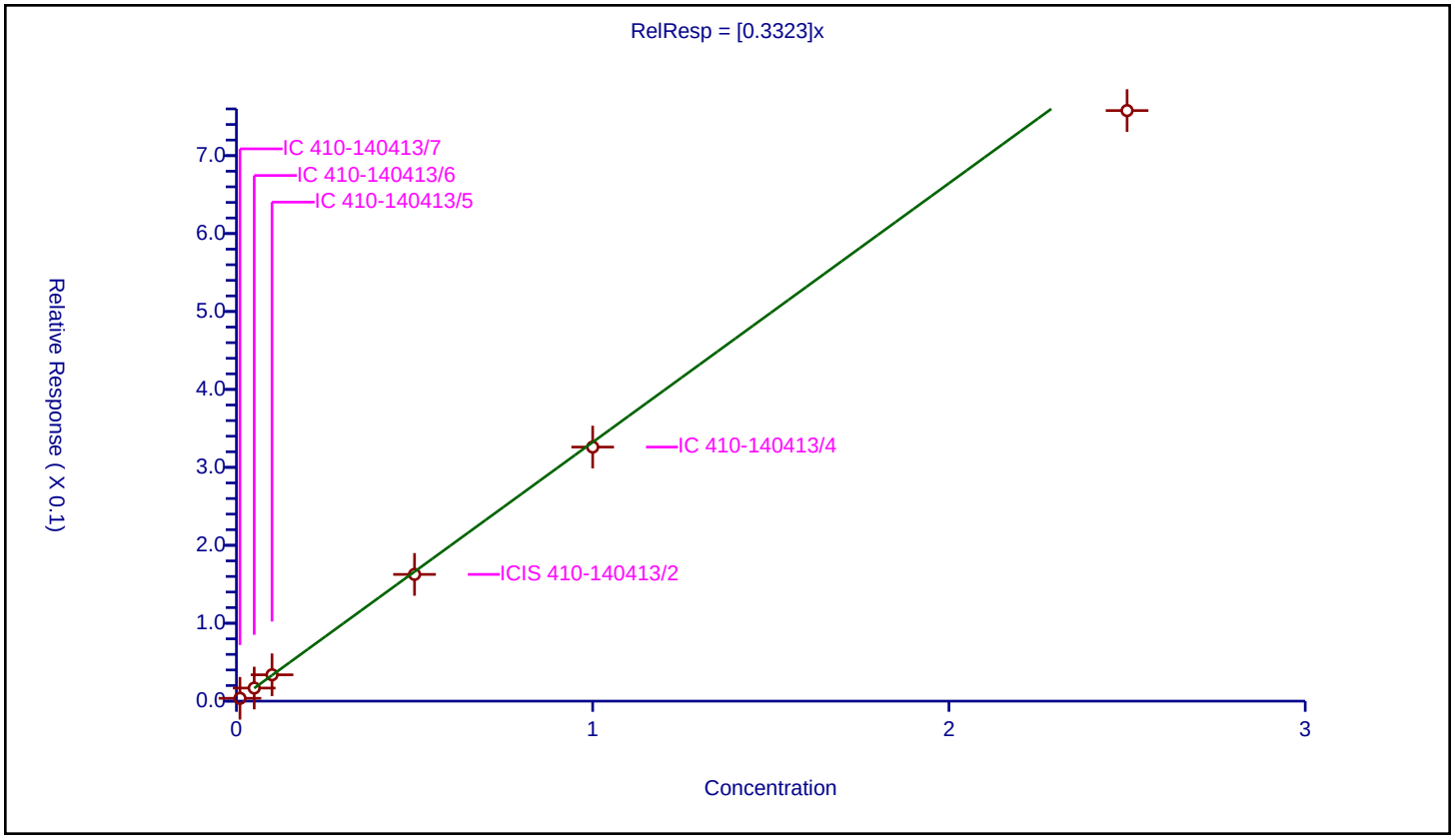
Curve Coefficients

Intercept:	0
Slope:	0.3323

Error Coefficients

Standard Error:	883000
Relative Standard Error:	6.1
Correlation Coefficient:	0.966
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.003646	0.25	547686.0	0.364625	Y
2	IC 410-140413/6	0.05	0.016813	0.25	544491.0	0.336268	Y
3	IC 410-140413/5	0.1	0.033833	0.25	583143.0	0.33833	Y
4	ICIS 410-140413/2	0.5	0.162622	0.25	1002213.0	0.325244	Y
5	IC 410-140413/4	1.0	0.326039	0.25	563471.0	0.326039	Y
6	IC 410-140413/3	2.5	0.757842	0.25	563984.0	0.303137	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

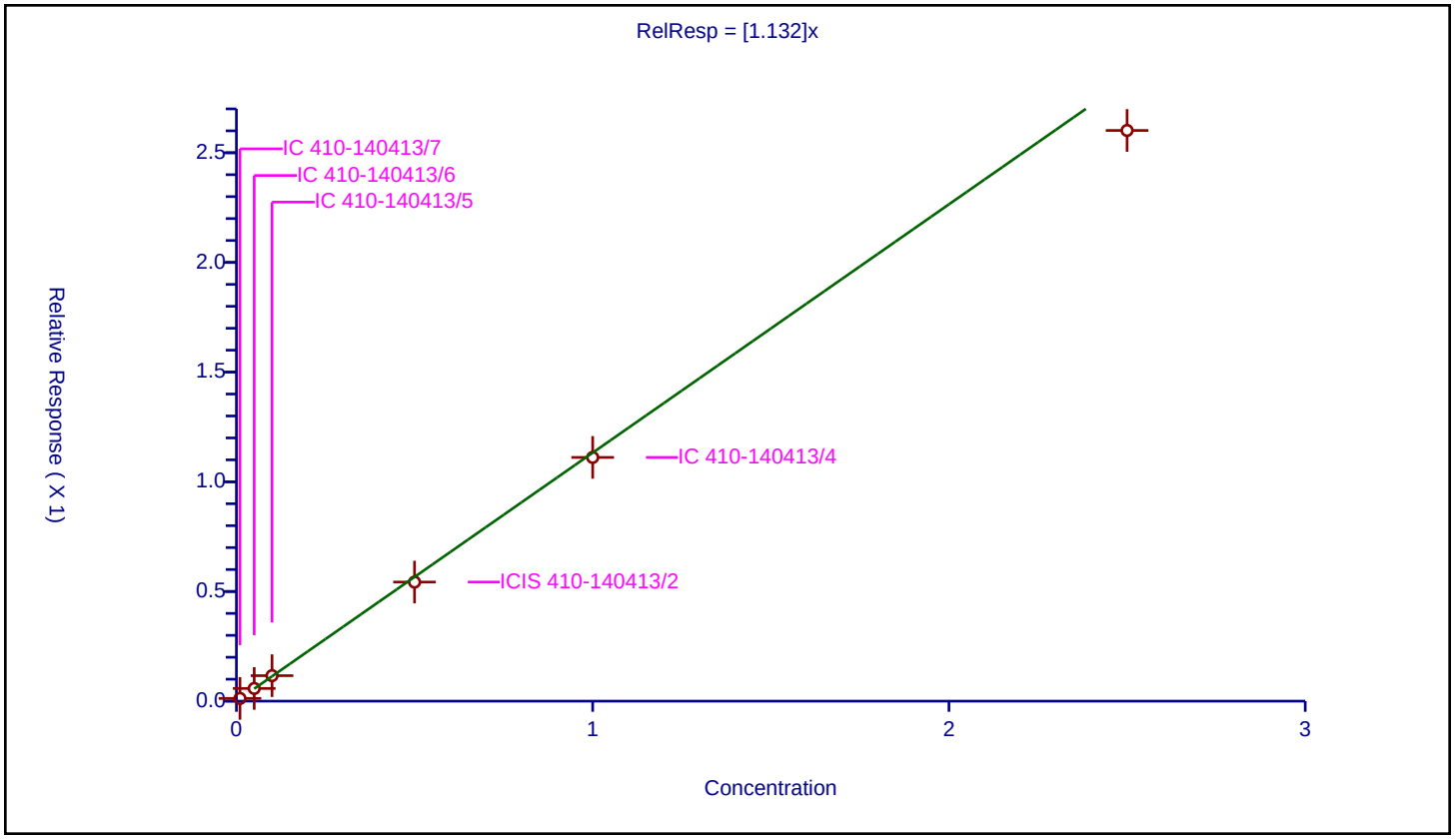
Curve Coefficients

Intercept:	0
Slope:	1.132

Error Coefficients

Standard Error:	3020000
Relative Standard Error:	6.1
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.0124	0.25	547686.0	1.23999	Y
2	IC 410-140413/6	0.05	0.057817	0.25	544491.0	1.156337	Y
3	IC 410-140413/5	0.1	0.116109	0.25	583143.0	1.161092	Y
4	ICIS 410-140413/2	0.5	0.542777	0.25	1002213.0	1.085554	Y
5	IC 410-140413/4	1.0	1.11104	0.25	563471.0	1.11104	Y
6	IC 410-140413/3	2.5	2.601611	0.25	563984.0	1.040644	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

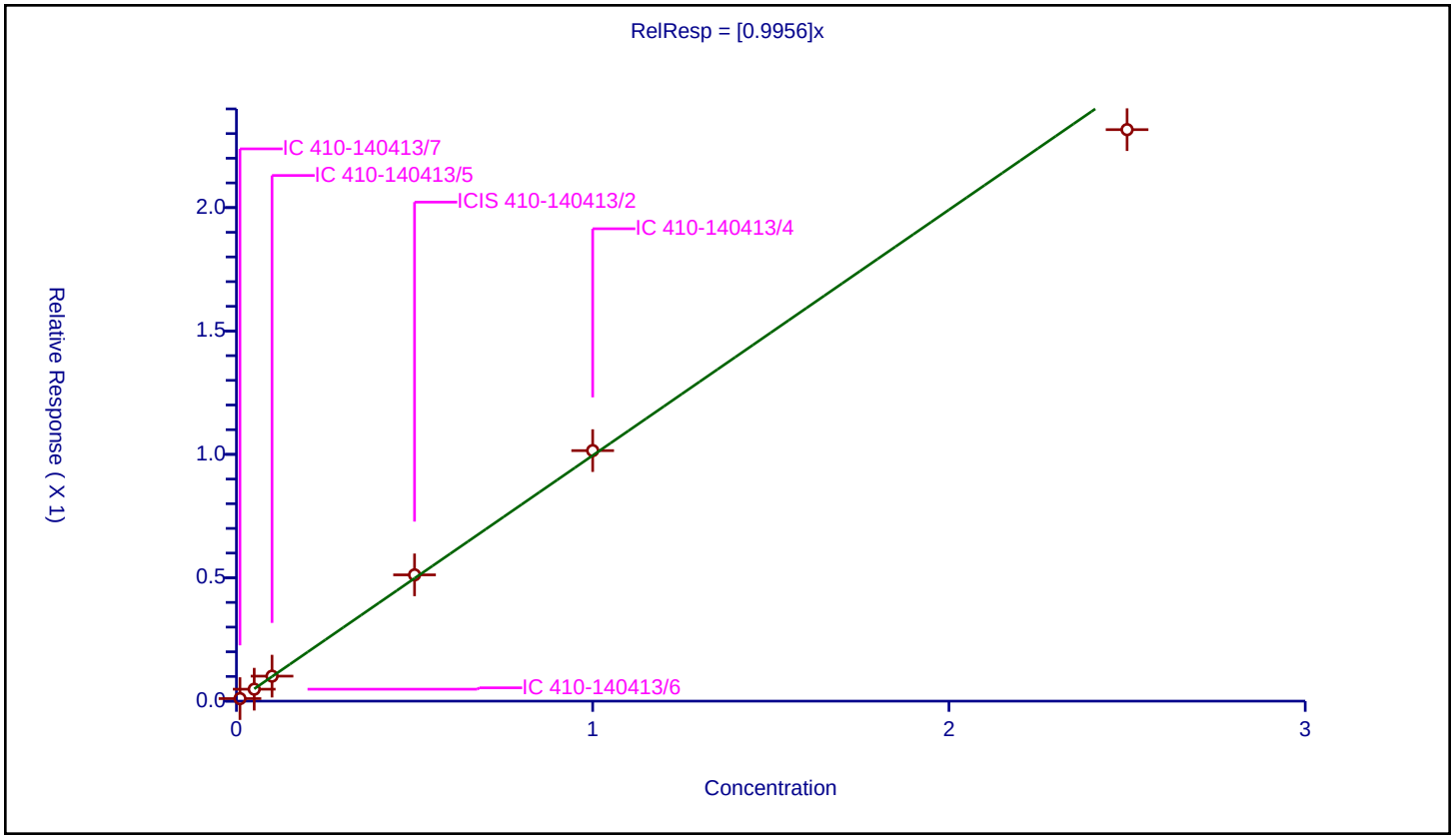
Curve Coefficients

Intercept:	0
Slope:	0.9956

Error Coefficients

Standard Error:	2710000
Relative Standard Error:	4.0
Correlation Coefficient:	0.961
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.010265	0.25	547686.0	1.026501	Y
2	IC 410-140413/6	0.05	0.048442	0.25	544491.0	0.96885	Y
3	IC 410-140413/5	0.1	0.101289	0.25	583143.0	1.012886	Y
4	ICIS 410-140413/2	0.5	0.511727	0.25	1002213.0	1.023454	Y
5	IC 410-140413/4	1.0	1.015289	0.25	563471.0	1.015289	Y
6	IC 410-140413/3	2.5	2.315927	0.25	563984.0	0.926371	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

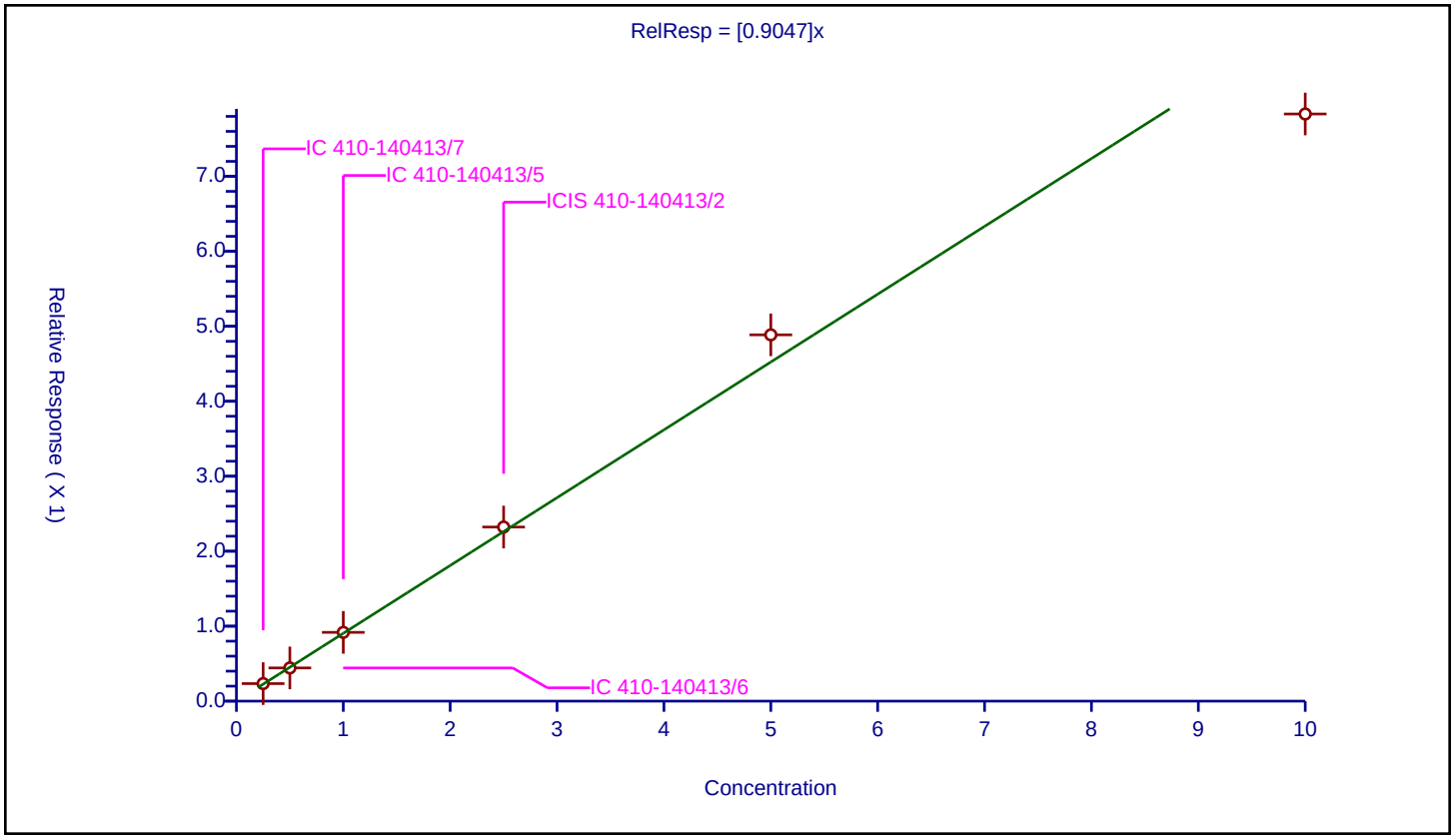
Curve Coefficients

Intercept:	0
Slope:	0.9047

Error Coefficients

Standard Error:	10300000
Relative Standard Error:	7.4
Correlation Coefficient:	0.919
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.25	0.23401	0.25	547686.0	0.93604	Y
2	IC 410-140413/6	0.5	0.442687	0.25	544491.0	0.885375	Y
3	IC 410-140413/5	1.0	0.917385	0.25	583143.0	0.917385	Y
4	ICIS 410-140413/2	2.5	2.322311	0.25	1002213.0	0.928925	Y
5	IC 410-140413/4	5.0	4.886103	0.25	563471.0	0.977221	Y
6	IC 410-140413/3	10.0	7.831966	0.25	563984.0	0.783197	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

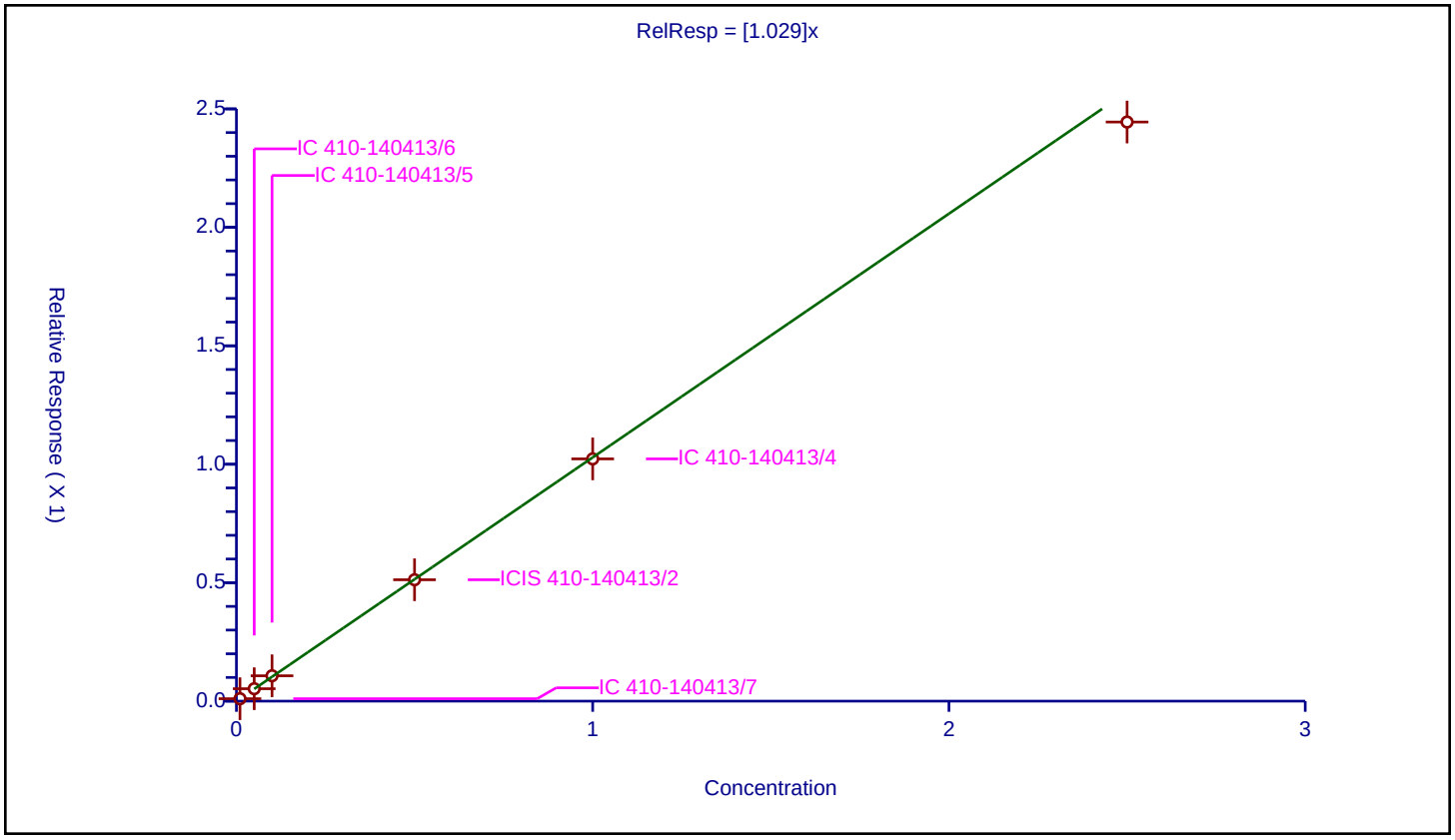
Curve Coefficients

Intercept:	0
Slope:	1.029

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	3.0
Correlation Coefficient:	0.968
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.01027	0.25	547686.0	1.027003	Y
2	IC 410-140413/6	0.05	0.052475	0.25	544491.0	1.049494	Y
3	IC 410-140413/5	0.1	0.107114	0.25	583143.0	1.071139	Y
4	ICIS 410-140413/2	0.5	0.512379	0.25	1002213.0	1.024759	Y
5	IC 410-140413/4	1.0	1.022536	0.25	563471.0	1.022536	Y
6	IC 410-140413/3	2.5	2.444628	0.25	563984.0	0.977851	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

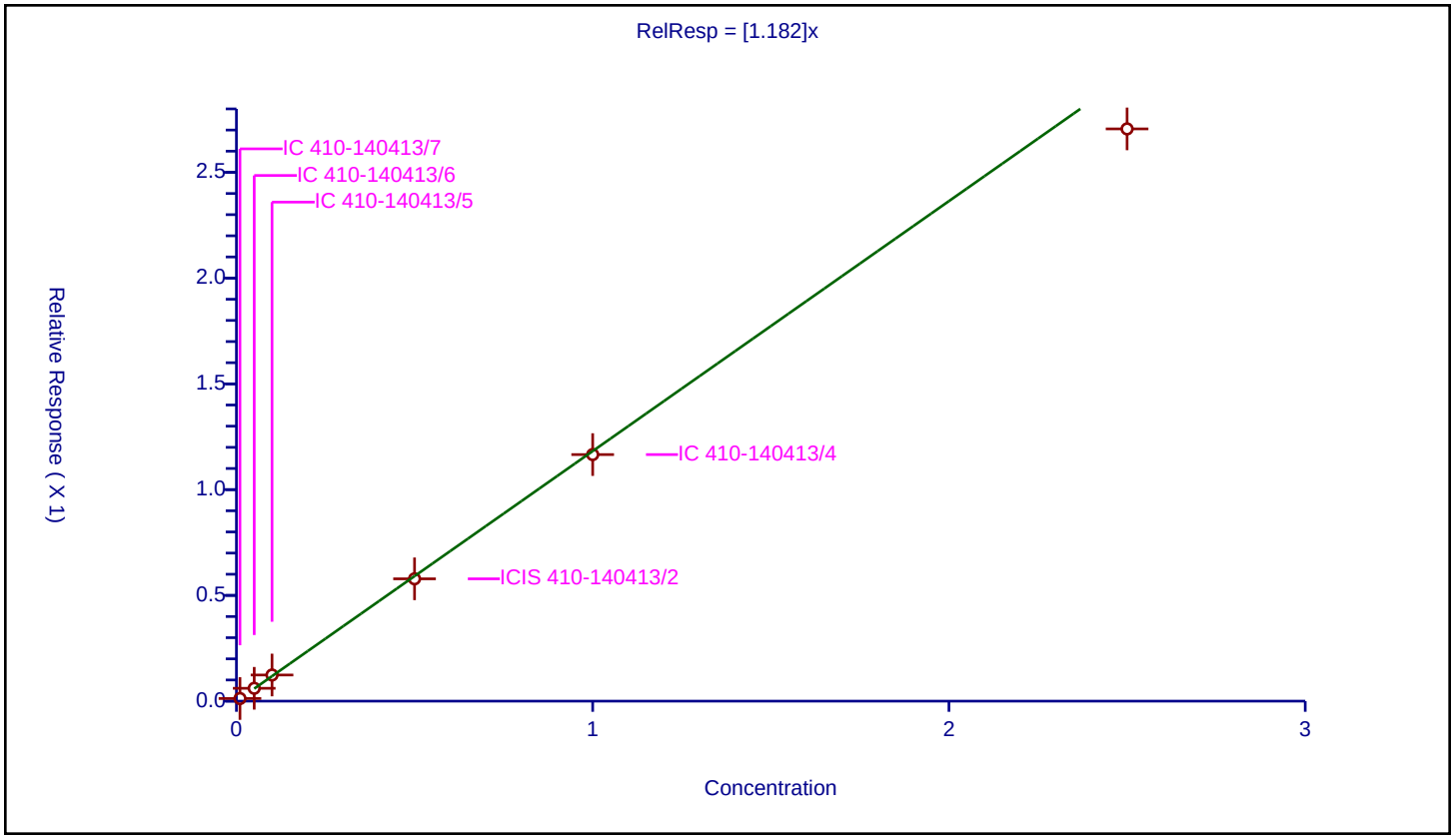
Curve Coefficients

Intercept:	0
Slope:	1.182

Error Coefficients

Standard Error:	3150000
Relative Standard Error:	5.1
Correlation Coefficient:	0.966
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.012358	0.25	547686.0	1.23579	Y
2	IC 410-140413/6	0.05	0.060793	0.25	544491.0	1.21587	Y
3	IC 410-140413/5	0.1	0.123623	0.25	583143.0	1.236228	Y
4	ICIS 410-140413/2	0.5	0.578252	0.25	1002213.0	1.156505	Y
5	IC 410-140413/4	1.0	1.16565	0.25	563471.0	1.16565	Y
6	IC 410-140413/3	2.5	2.705431	0.25	563984.0	1.082173	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

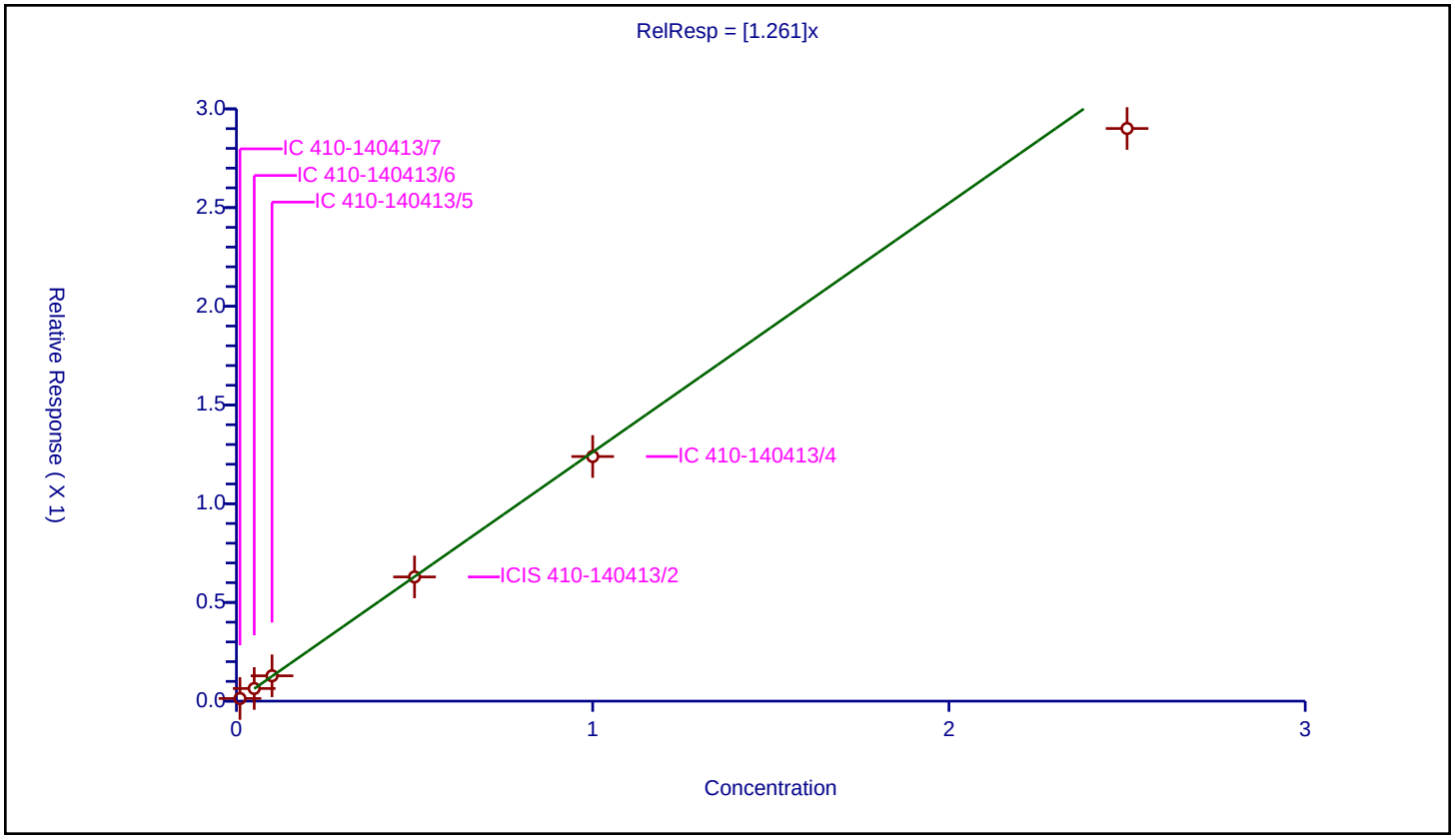
Curve Coefficients

Intercept:	0
Slope:	1.261

Error Coefficients

Standard Error:	3330000
Relative Standard Error:	4.9
Correlation Coefficient:	0.965
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.013473	0.25	512652.0	1.347308	Y
2	IC 410-140413/6	0.05	0.063984	0.25	535003.0	1.279684	Y
3	IC 410-140413/5	0.1	0.128354	0.25	587616.0	1.283538	Y
4	ICIS 410-140413/2	0.5	0.629121	0.25	978511.0	1.258242	Y
5	IC 410-140413/4	1.0	1.239083	0.25	562415.0	1.239083	Y
6	IC 410-140413/3	2.5	2.900667	0.25	554167.0	1.160267	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

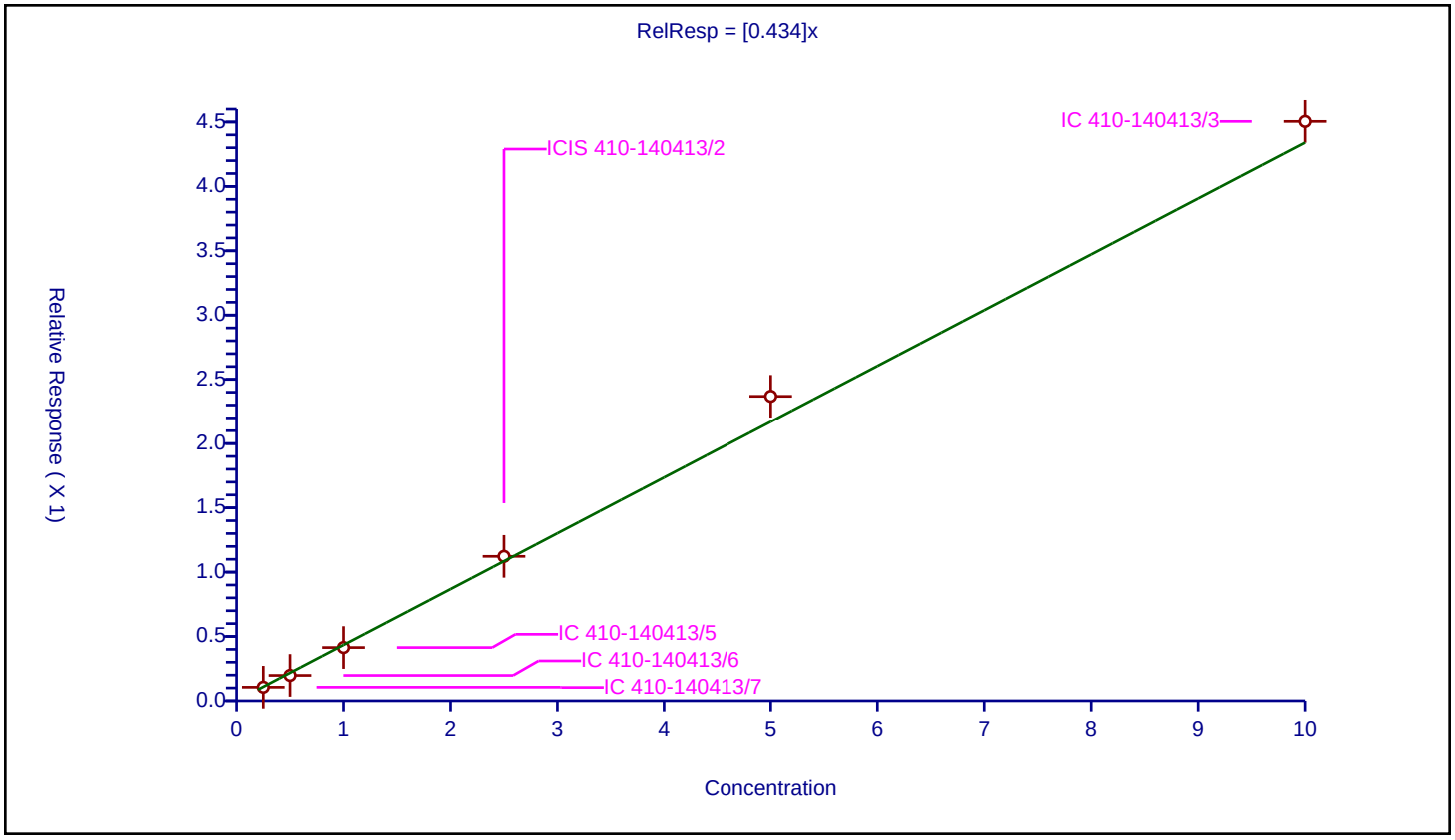
Curve Coefficients

Intercept:	0
Slope:	0.434

Error Coefficients

Standard Error:	5450000
Relative Standard Error:	6.6
Correlation Coefficient:	0.959
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.25	0.105629	0.25	512652.0	0.422515	Y
2	IC 410-140413/6	0.5	0.197259	0.25	535003.0	0.394518	Y
3	IC 410-140413/5	1.0	0.414005	0.25	587616.0	0.414005	Y
4	ICIS 410-140413/2	2.5	1.122553	0.25	978511.0	0.449021	Y
5	IC 410-140413/4	5.0	2.368197	0.25	562415.0	0.473639	Y
6	IC 410-140413/3	10.0	4.504596	0.25	554167.0	0.45046	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

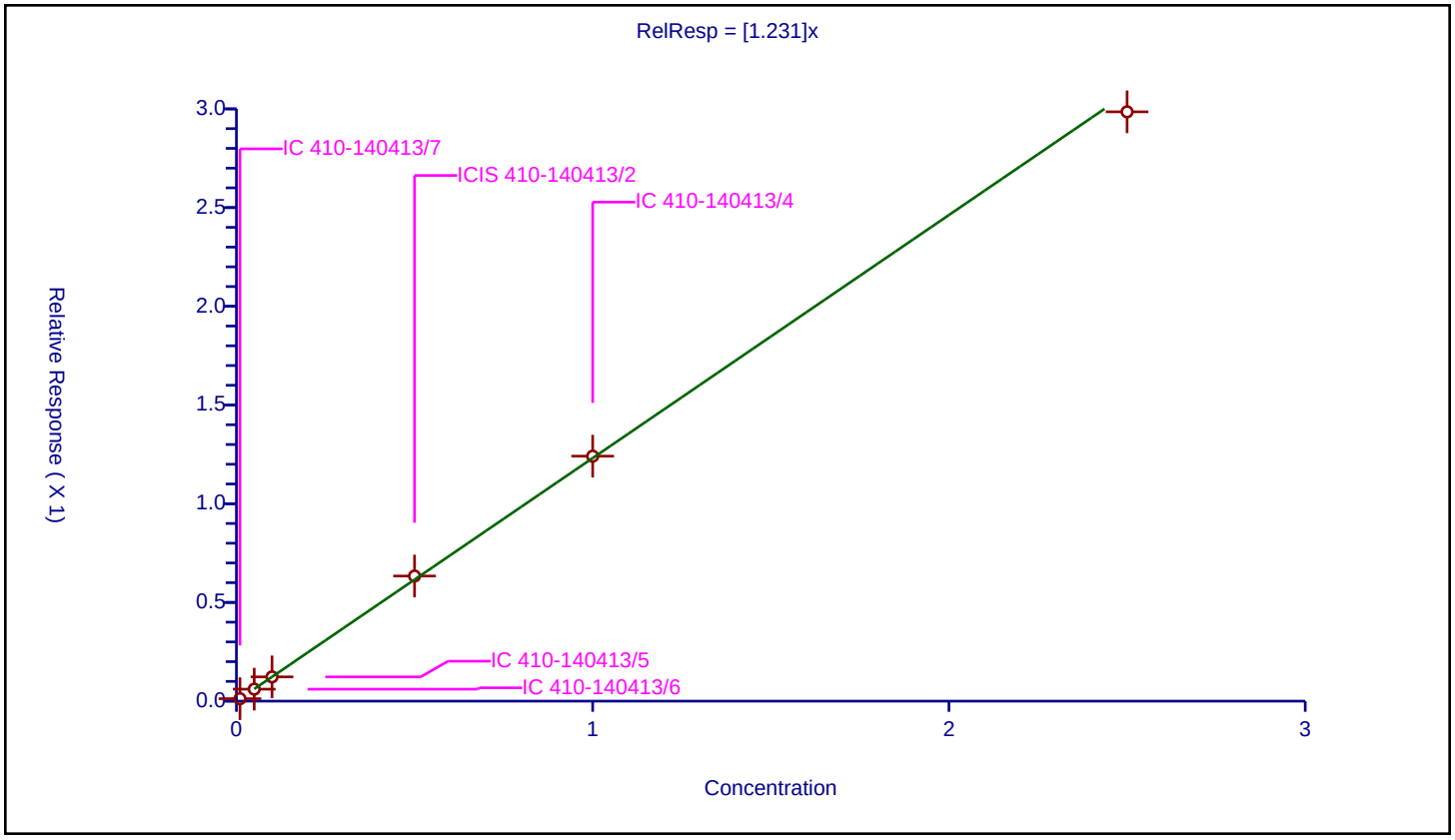
Curve Coefficients

Intercept:	0
Slope:	1.231

Error Coefficients

Standard Error:	3400000
Relative Standard Error:	2.1
Correlation Coefficient:	0.967
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.012433	0.25	512652.0	1.24329	Y
2	IC 410-140413/6	0.05	0.060665	0.25	535003.0	1.213292	Y
3	IC 410-140413/5	0.1	0.122846	0.25	587616.0	1.228455	Y
4	ICIS 410-140413/2	0.5	0.63369	0.25	978511.0	1.267379	Y
5	IC 410-140413/4	1.0	1.241	0.25	562415.0	1.241	Y
6	IC 410-140413/3	2.5	2.985169	0.25	554167.0	1.194068	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

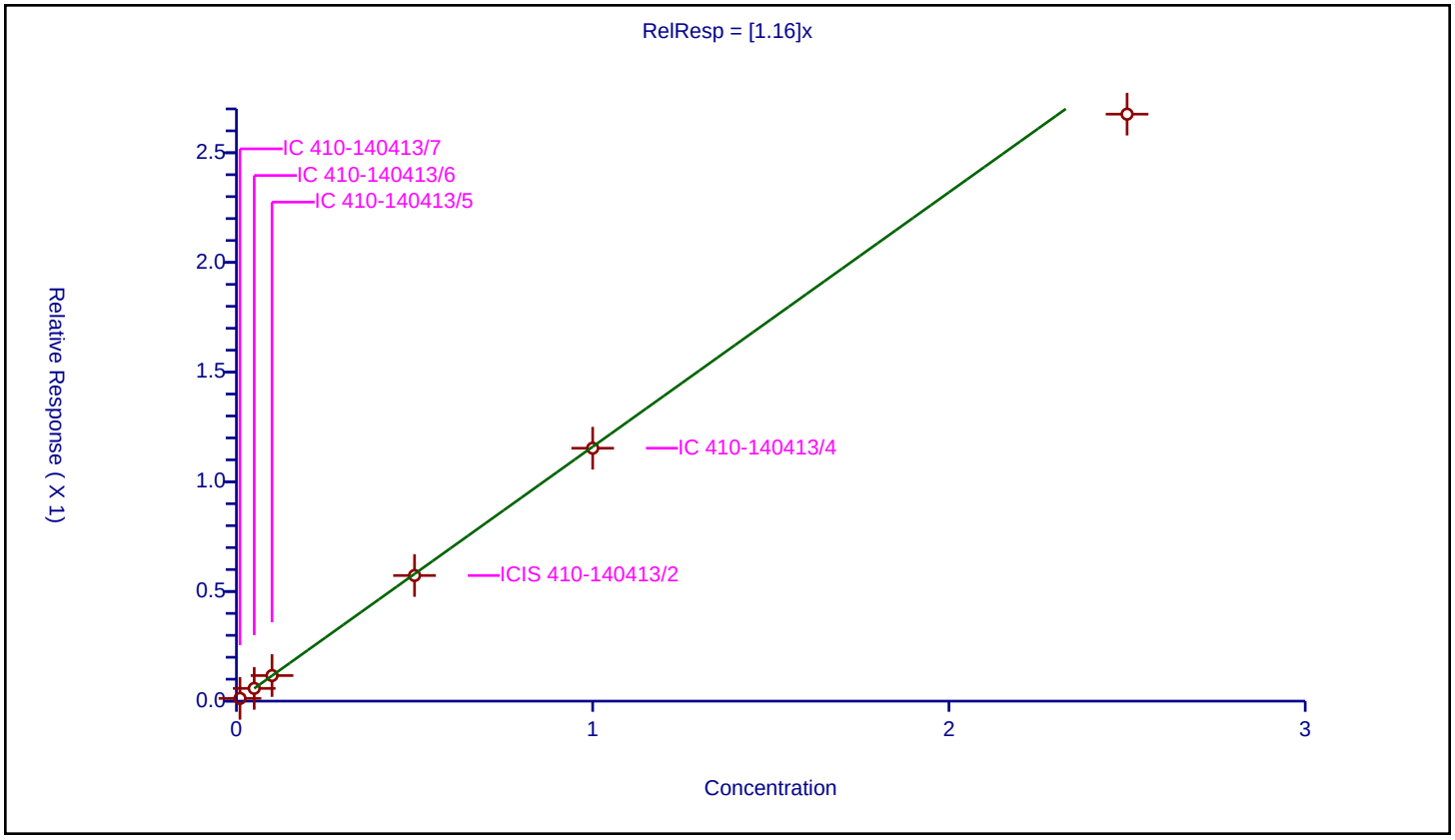
Curve Coefficients

Intercept:	0
Slope:	1.16

Error Coefficients

Standard Error:	3070000
Relative Standard Error:	5.3
Correlation Coefficient:	0.967
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.012612	0.25	512652.0	1.261187	Y
2	IC 410-140413/6	0.05	0.058099	0.25	535003.0	1.161984	Y
3	IC 410-140413/5	0.1	0.116662	0.25	587616.0	1.166616	Y
4	ICIS 410-140413/2	0.5	0.572853	0.25	978511.0	1.145706	Y
5	IC 410-140413/4	1.0	1.153141	0.25	562415.0	1.153141	Y
6	IC 410-140413/3	2.5	2.676127	0.25	554167.0	1.070451	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

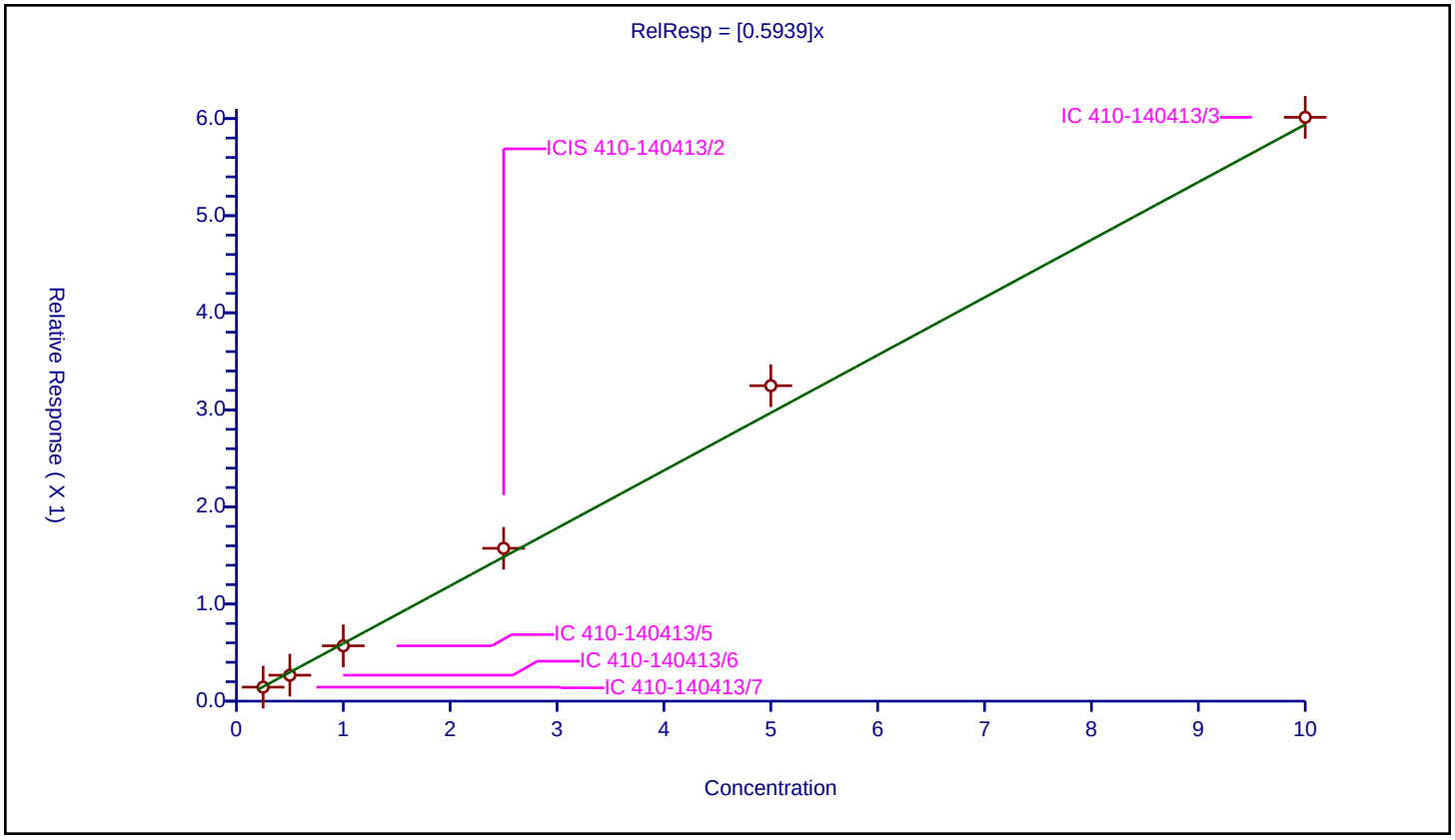
Curve Coefficients

Intercept:	0
Slope:	0.5939

Error Coefficients

Standard Error:	7370000
Relative Standard Error:	7.1
Correlation Coefficient:	0.950
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.25	0.144526	0.25	512652.0	0.578106	Y
2	IC 410-140413/6	0.5	0.267329	0.25	535003.0	0.534658	Y
3	IC 410-140413/5	1.0	0.569902	0.25	587616.0	0.569902	Y
4	ICIS 410-140413/2	2.5	1.574446	0.25	978511.0	0.629778	Y
5	IC 410-140413/4	5.0	3.248836	0.25	562415.0	0.649767	Y
6	IC 410-140413/3	10.0	6.012963	0.25	554167.0	0.601296	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

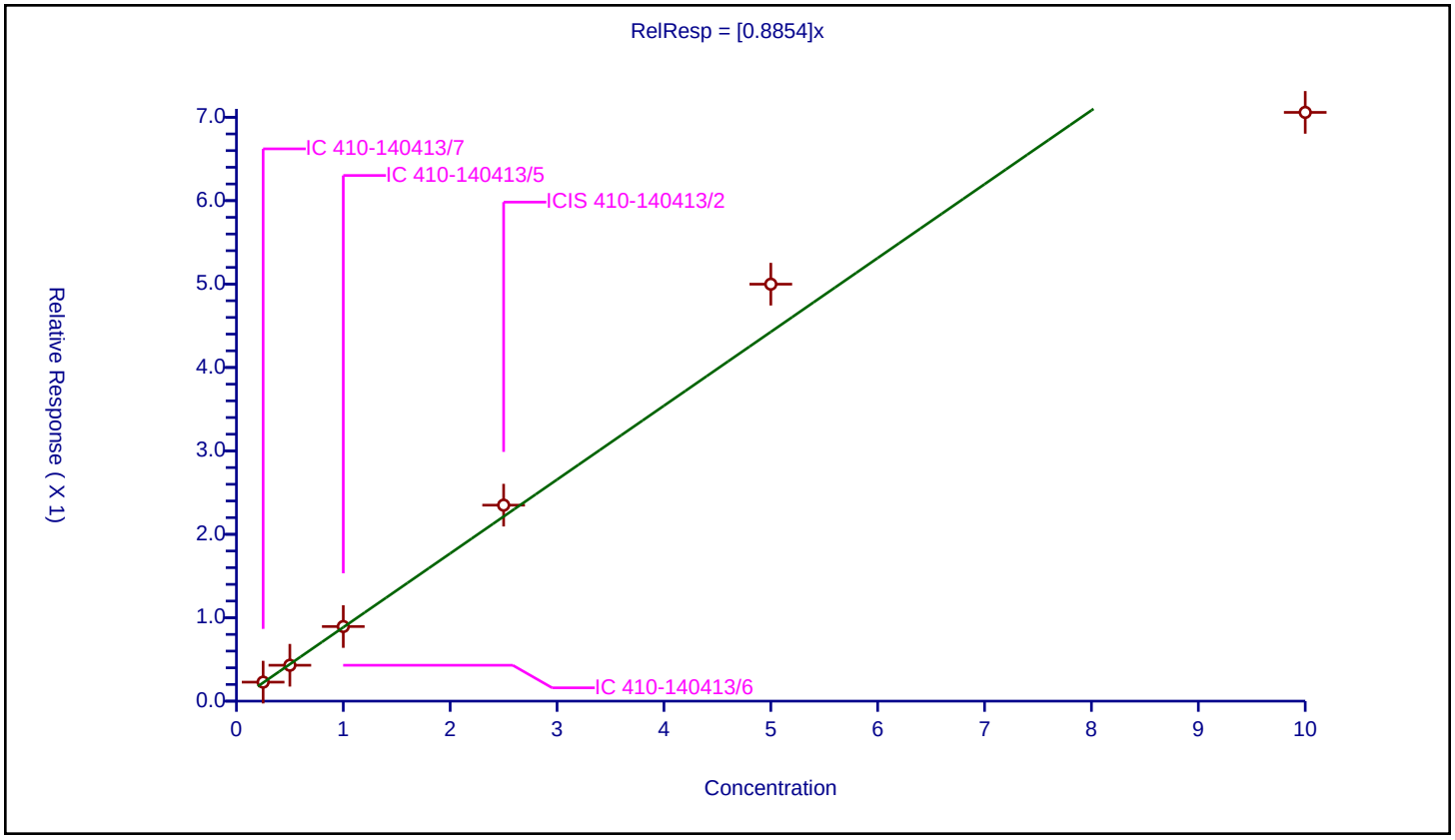
Curve Coefficients

Intercept:	0
Slope:	0.8854

Error Coefficients

Standard Error:	10900000
Relative Standard Error:	11.3
Correlation Coefficient:	0.904
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.25	0.227965	0.25	533214.0	0.911861	Y
2	IC 410-140413/6	0.5	0.430135	0.25	541317.0	0.860269	Y
3	IC 410-140413/5	1.0	0.894635	0.25	623585.0	0.894635	Y
4	ICIS 410-140413/2	2.5	2.349629	0.25	1062986.0	0.939852	Y
5	IC 410-140413/4	5.0	4.998614	0.25	615041.0	0.999723	Y
6	IC 410-140413/3	10.0	7.058041	0.25	650022.0	0.705804	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

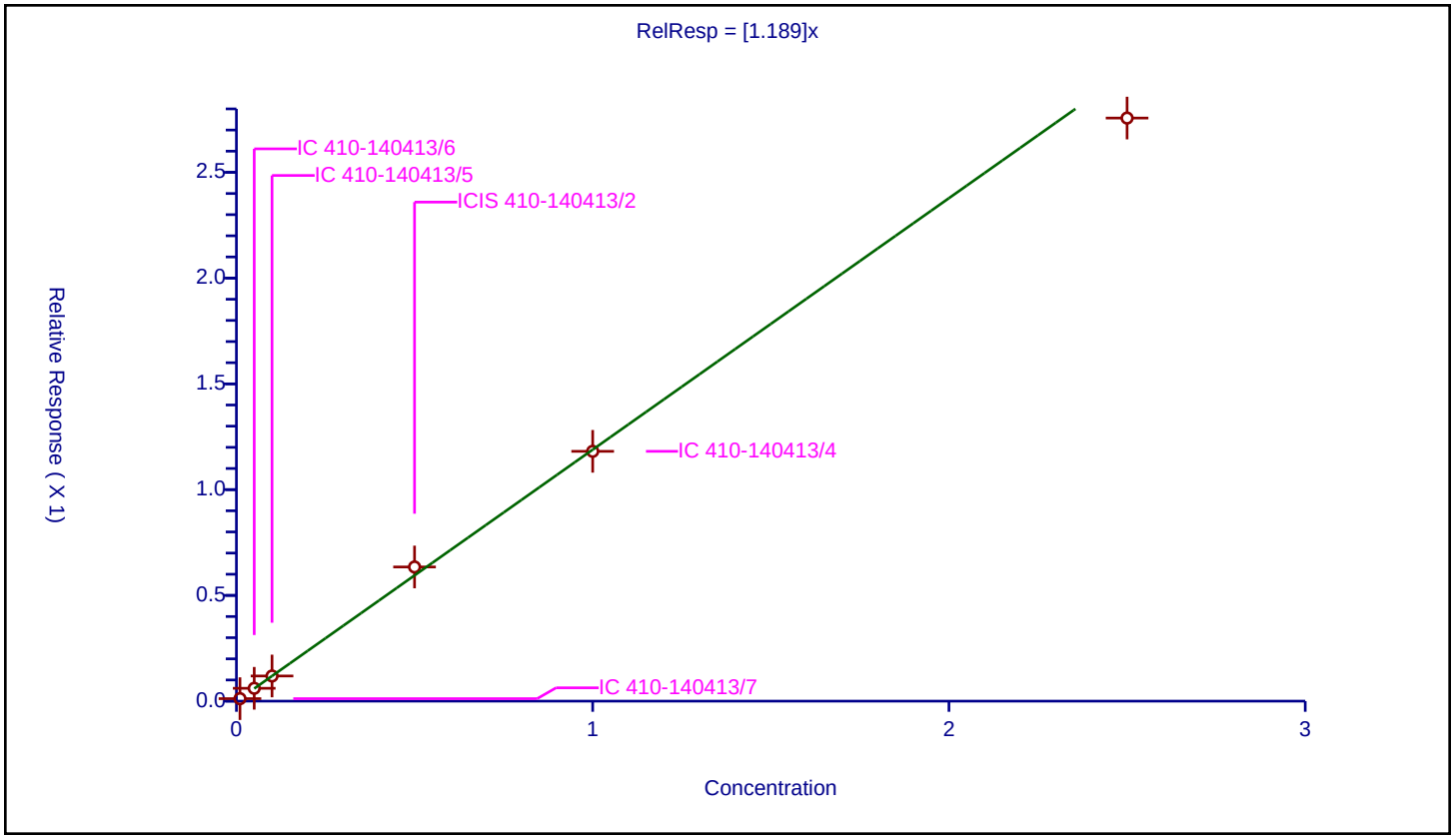
Curve Coefficients

Intercept:	0
Slope:	1.189

Error Coefficients

Standard Error:	3670000
Relative Standard Error:	4.6
Correlation Coefficient:	0.966
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.011774	0.25	533214.0	1.177388	Y
2	IC 410-140413/6	0.05	0.060742	0.25	541317.0	1.214833	Y
3	IC 410-140413/5	0.1	0.118926	0.25	623585.0	1.189264	Y
4	ICIS 410-140413/2	0.5	0.634278	0.25	1062986.0	1.268557	Y
5	IC 410-140413/4	1.0	1.18103	0.25	615041.0	1.18103	Y
6	IC 410-140413/3	2.5	2.756666	0.25	650022.0	1.102667	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

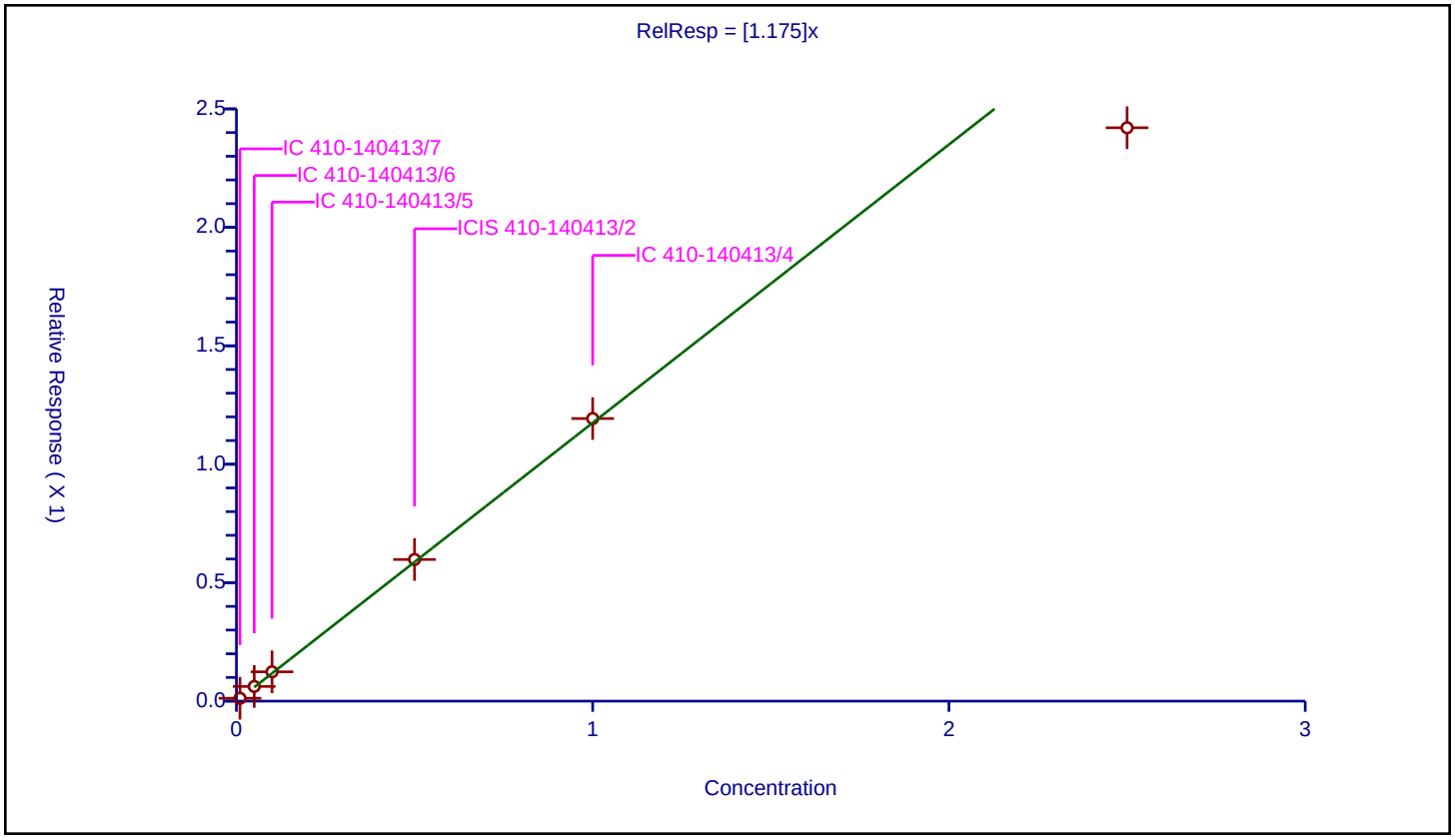
Curve Coefficients

Intercept:	0
Slope:	1.175

Error Coefficients

Standard Error:	3310000
Relative Standard Error:	8.8
Correlation Coefficient:	0.956
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.012139	0.25	533214.0	1.213912	Y
2	IC 410-140413/6	0.05	0.06203	0.25	541317.0	1.240595	Y
3	IC 410-140413/5	0.1	0.123743	0.25	623585.0	1.237434	Y
4	ICIS 410-140413/2	0.5	0.597892	0.25	1062986.0	1.195784	Y
5	IC 410-140413/4	1.0	1.192896	0.25	615041.0	1.192896	Y
6	IC 410-140413/3	2.5	2.420361	0.25	650022.0	0.968144	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

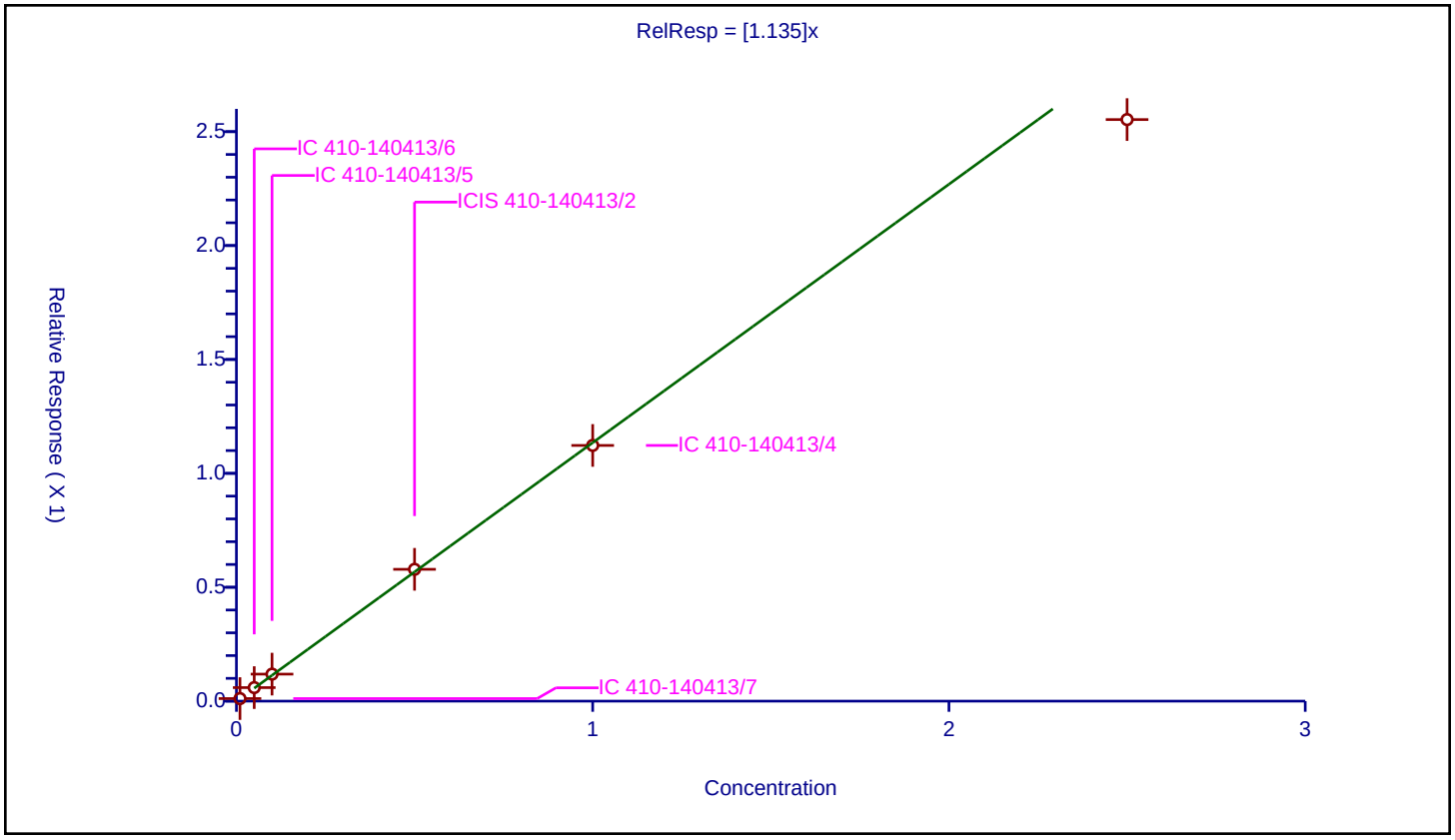
Curve Coefficients

Intercept:	0
Slope:	1.135

Error Coefficients

Standard Error:	3400000
Relative Standard Error:	5.4
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.011316	0.25	533214.0	1.131628	Y
2	IC 410-140413/6	0.05	0.059426	0.25	541317.0	1.188527	Y
3	IC 410-140413/5	0.1	0.118609	0.25	623585.0	1.186089	Y
4	ICIS 410-140413/2	0.5	0.578705	0.25	1062986.0	1.15741	Y
5	IC 410-140413/4	1.0	1.122526	0.25	615041.0	1.122526	Y
6	IC 410-140413/3	2.5	2.553139	0.25	650022.0	1.021256	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

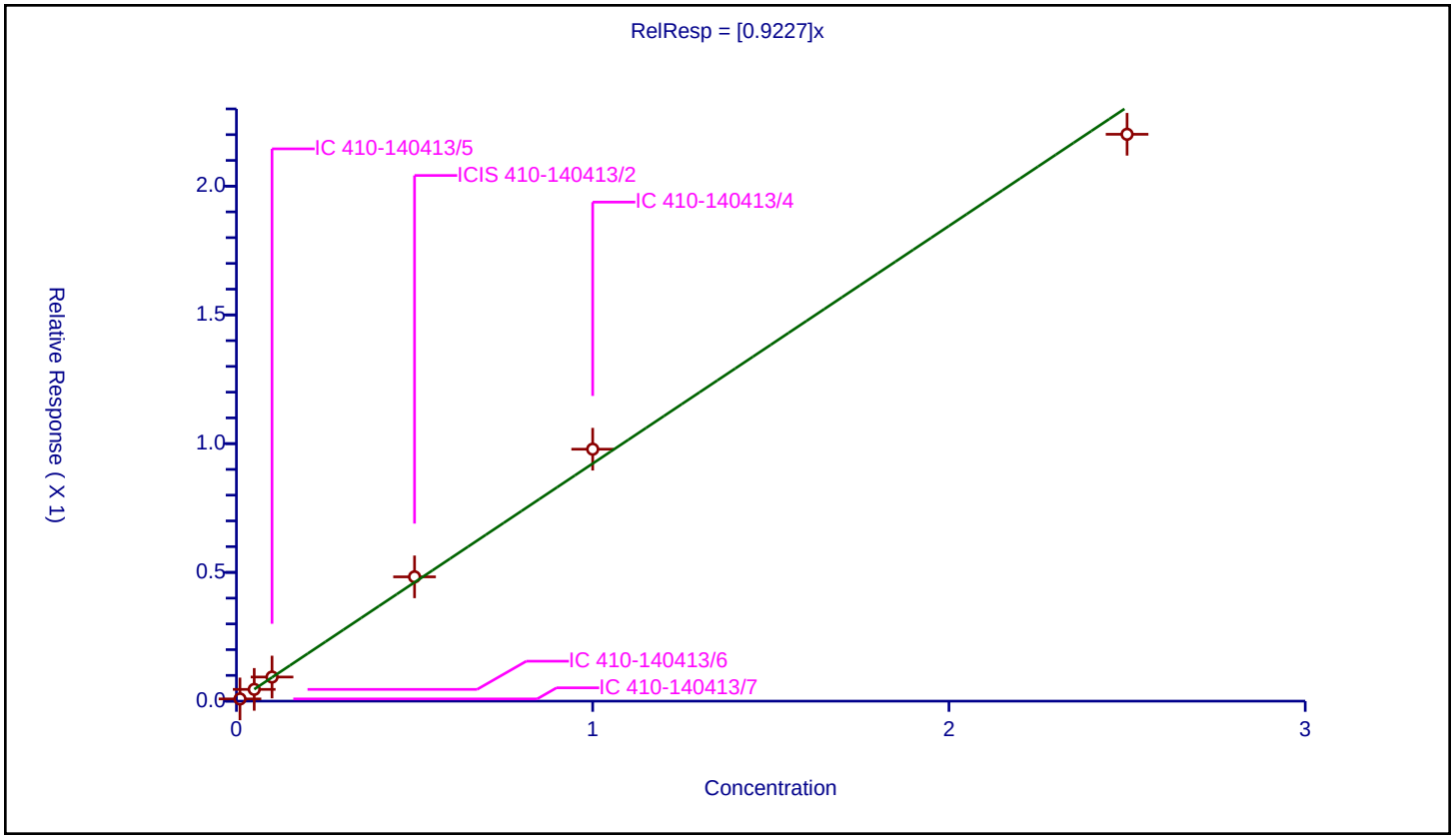
Curve Coefficients

Intercept:	0
Slope:	0.9227

Error Coefficients

Standard Error:	2930000
Relative Standard Error:	5.0
Correlation Coefficient:	0.973
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.008614	0.25	533214.0	0.86138	Y
2	IC 410-140413/6	0.05	0.045701	0.25	541317.0	0.914012	Y
3	IC 410-140413/5	0.1	0.093643	0.25	623585.0	0.936432	Y
4	ICIS 410-140413/2	0.5	0.482692	0.25	1062986.0	0.965384	Y
5	IC 410-140413/4	1.0	0.978397	0.25	615041.0	0.978397	Y
6	IC 410-140413/3	2.5	2.201414	0.25	650022.0	0.880566	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

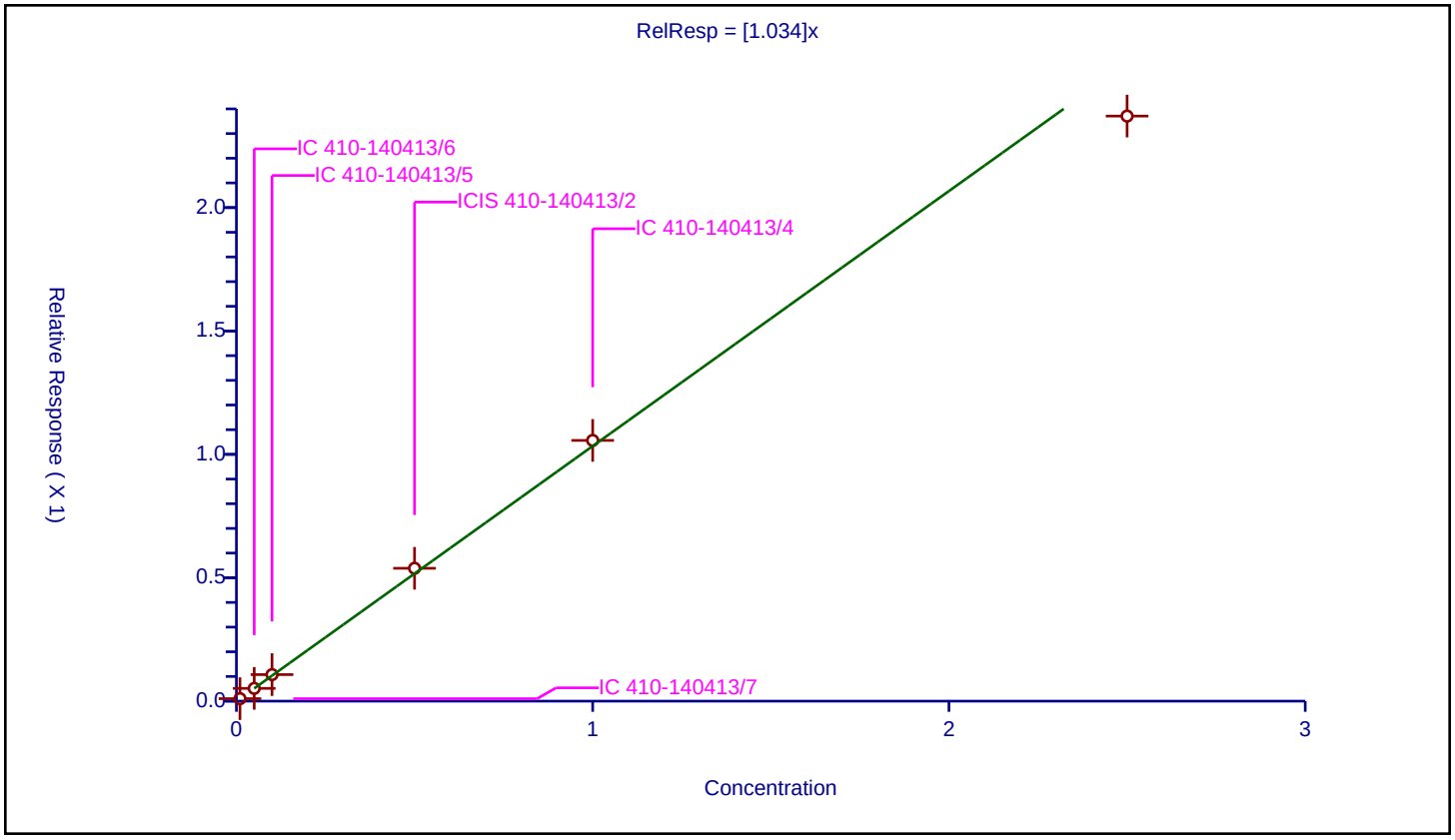
Curve Coefficients

Intercept:	0
Slope:	1.034

Error Coefficients

Standard Error:	3160000
Relative Standard Error:	4.7
Correlation Coefficient:	0.968
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.010089	0.25	533214.0	1.008929	Y
2	IC 410-140413/6	0.05	0.051753	0.25	541317.0	1.035068	Y
3	IC 410-140413/5	0.1	0.107552	0.25	623585.0	1.075519	Y
4	ICIS 410-140413/2	0.5	0.53841	0.25	1062986.0	1.07682	Y
5	IC 410-140413/4	1.0	1.056586	0.25	615041.0	1.056586	Y
6	IC 410-140413/3	2.5	2.370844	0.25	650022.0	0.948338	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

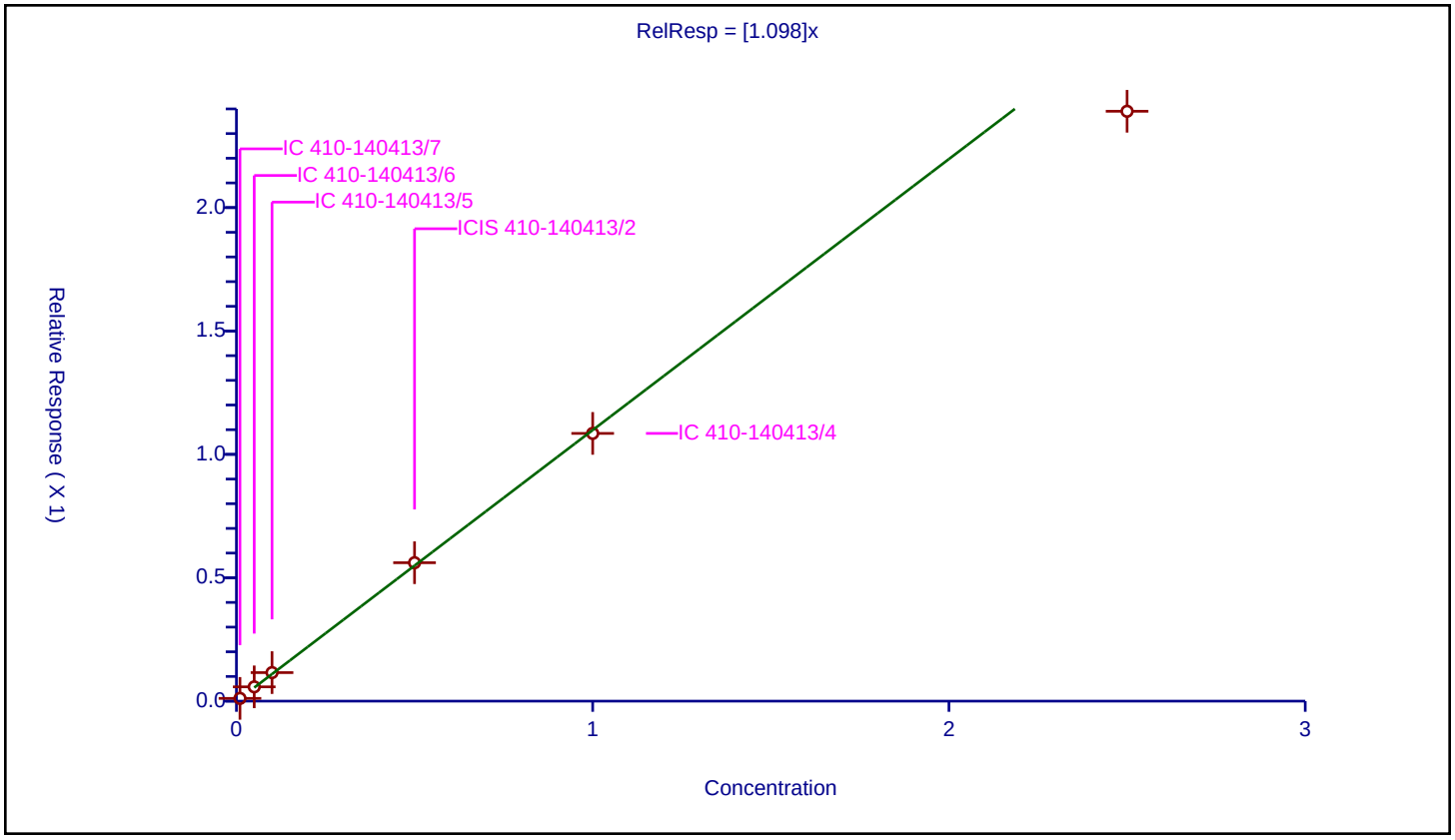
Curve Coefficients

Intercept:	0
Slope:	1.098

Error Coefficients

Standard Error:	3210000
Relative Standard Error:	6.8
Correlation Coefficient:	0.964
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.011132	0.25	533214.0	1.113249	Y
2	IC 410-140413/6	0.05	0.057851	0.25	541317.0	1.157012	Y
3	IC 410-140413/5	0.1	0.115692	0.25	623585.0	1.156915	Y
4	ICIS 410-140413/2	0.5	0.560948	0.25	1062986.0	1.121897	Y
5	IC 410-140413/4	1.0	1.085004	0.25	615041.0	1.085004	Y
6	IC 410-140413/3	2.5	2.390441	0.25	650022.0	0.956177	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

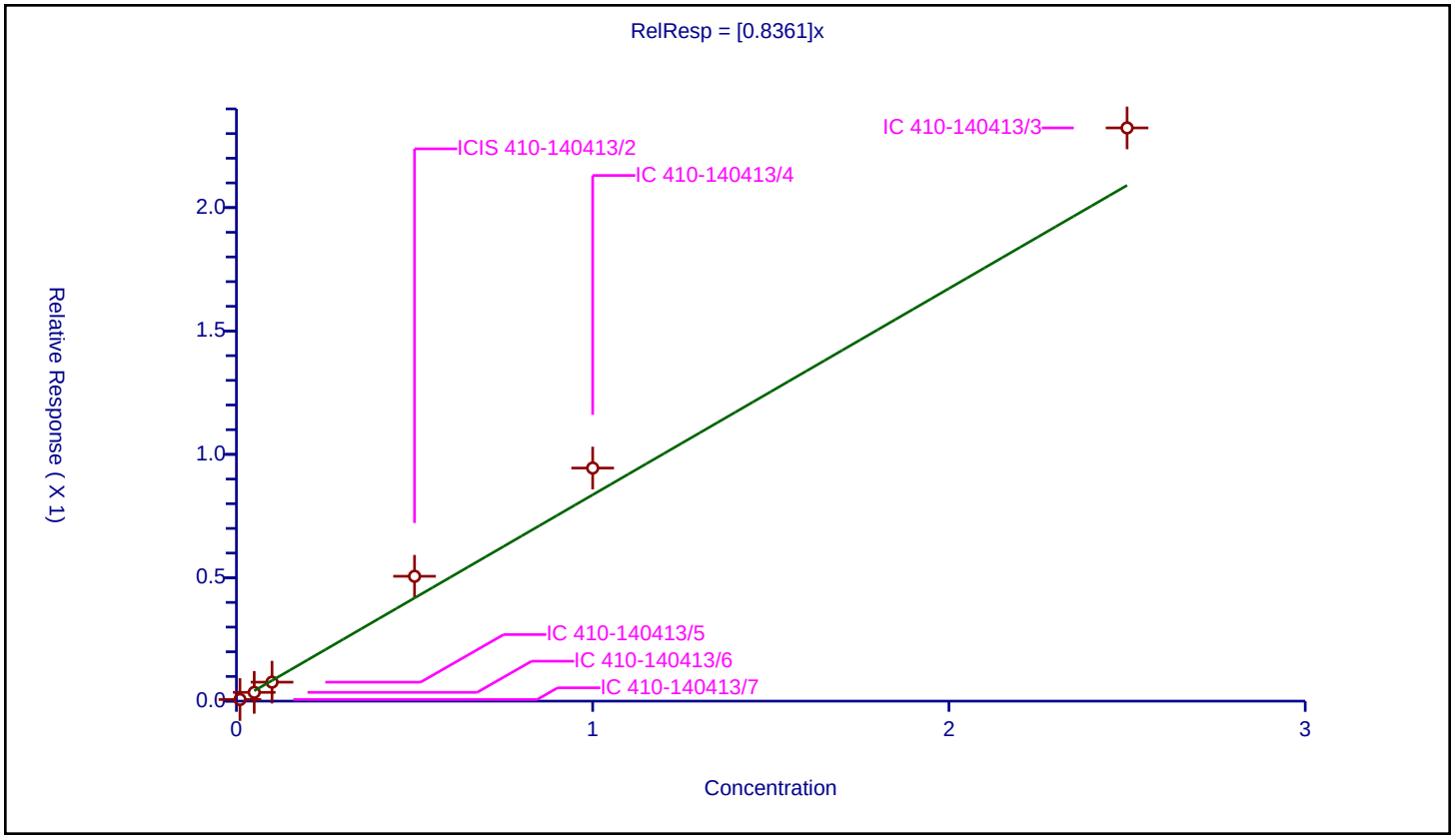
Curve Coefficients

Intercept:	0
Slope:	0.8361

Error Coefficients

Standard Error:	3050000
Relative Standard Error:	17.4
Correlation Coefficient:	0.970
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.00651	0.25	533214.0	0.651005	Y
2	IC 410-140413/6	0.05	0.035533	0.25	541317.0	0.710656	Y
3	IC 410-140413/5	0.1	0.076916	0.25	623585.0	0.769157	Y
4	ICIS 410-140413/2	0.5	0.506002	0.25	1062986.0	1.012004	Y
5	IC 410-140413/4	1.0	0.944566	0.25	615041.0	0.944566	Y
6	IC 410-140413/3	2.5	2.322922	0.25	650022.0	0.929169	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

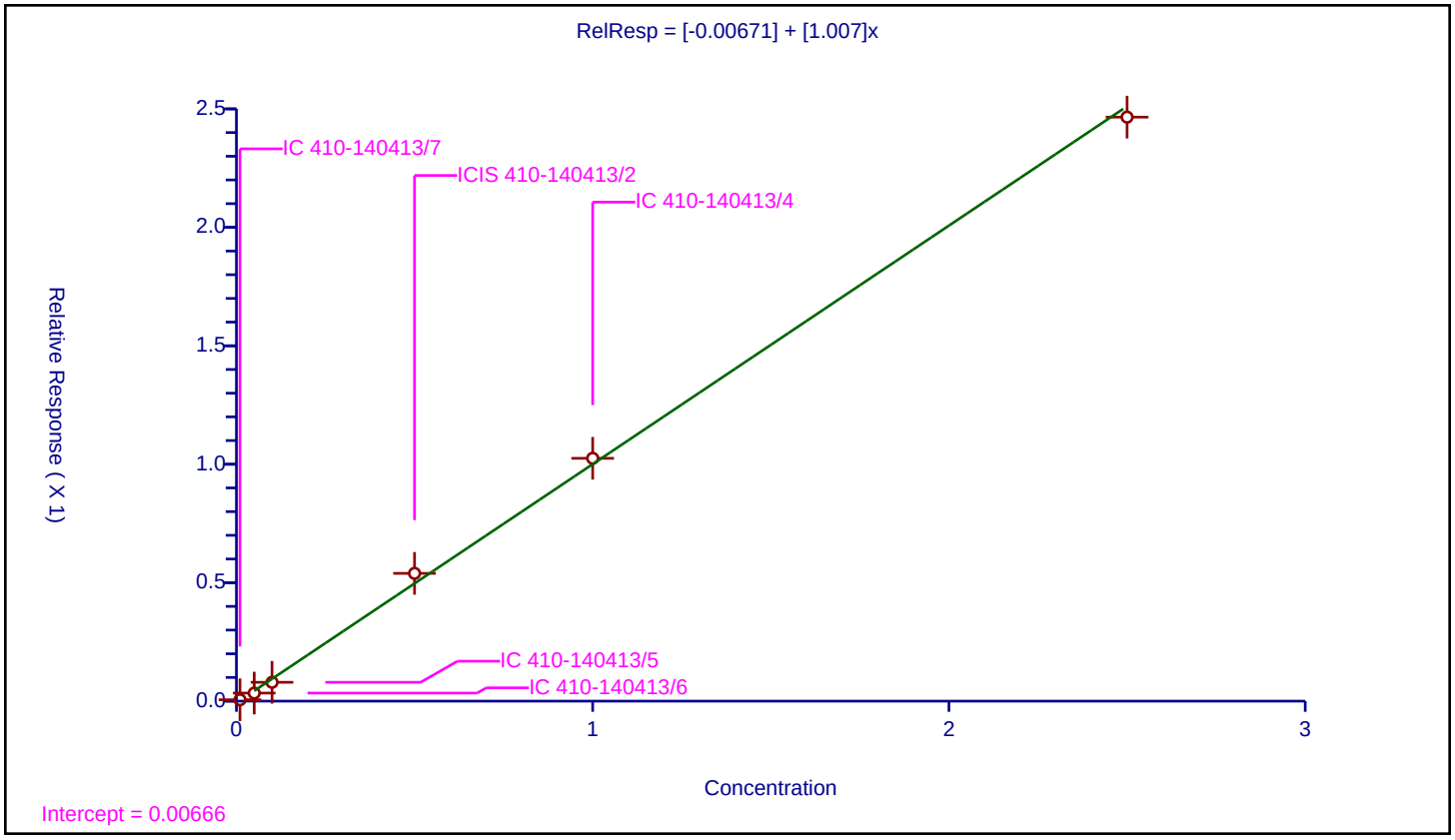
Curve Coefficients

Intercept:	-0.00671
Slope:	1.007

Error Coefficients

Standard Error:	3630000
Relative Standard Error:	17.7
Correlation Coefficient:	0.970
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.005828	0.25	533214.0	0.582787	Y
2	IC 410-140413/6	0.05	0.033953	0.25	541317.0	0.679066	Y
3	IC 410-140413/5	0.1	0.079531	0.25	623585.0	0.795313	Y
4	ICIS 410-140413/2	0.5	0.539324	0.25	1062986.0	1.078648	Y
5	IC 410-140413/4	1.0	1.025096	0.25	615041.0	1.025096	Y
6	IC 410-140413/3	2.5	2.465218	0.25	650022.0	0.986087	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

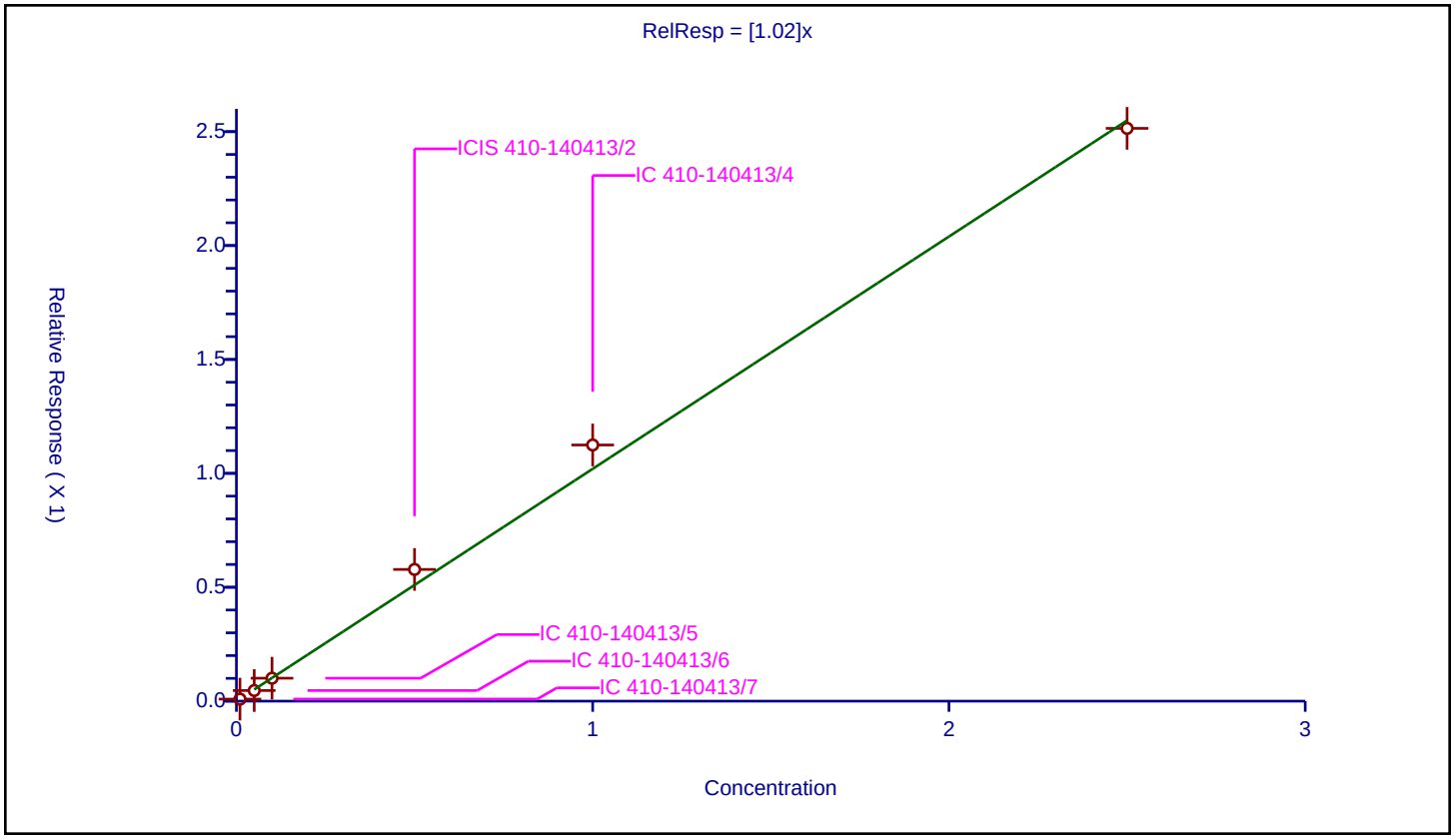
Curve Coefficients

Intercept:	0
Slope:	1.02

Error Coefficients

Standard Error:	3360000
Relative Standard Error:	10.2
Correlation Coefficient:	0.966
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-140413/7	0.01	0.008931	0.25	533214.0	0.893122	Y
2	IC 410-140413/6	0.05	0.046565	0.25	541317.0	0.931293	Y
3	IC 410-140413/5	0.1	0.100733	0.25	623585.0	1.007333	Y
4	ICIS 410-140413/2	0.5	0.578142	0.25	1062986.0	1.156285	Y
5	IC 410-140413/4	1.0	1.124467	0.25	615041.0	1.124467	Y
6	IC 410-140413/3	2.5	2.514554	0.25	650022.0	1.005821	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): ICIS 410-133561/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 06/03/2021 09:18

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.35	15.70

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): ICIS 410-140413/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 06/22/2021 06:25

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.86	16.80

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-143507/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 06/29/2021 18:47

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.20	16.80

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-143973/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 06/30/2021 20:53

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.17	19.10

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-143979/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 06/30/2021 18:52

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.74	12.50

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-144210/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/01/2021 08:27

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.75	13.60

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-144441/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/01/2021 21:45

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.15	17.70

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-144525/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/01/2021 19:13

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.76	12.80

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-144775/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/02/2021 11:05

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.15	20.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-145058/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/05/2021 08:44

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.72	14.40

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-145121/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/06/2021 04:42

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.15	20.50

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45105-1

SDG No.:

Lab Sample ID (1): CCVIS 410-145132/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 07/06/2021 06:14

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.73	12.60

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: ICV 410-133561/9 Calibration Date: 06/03/2021 12:52

Instrument ID: HP21585 Calib Start Date: 06/03/2021 09:18

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/03/2021 11:51

Lab File ID: MF0168.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6478	0.6272		0.242	0.250	-3.2	30.0
N-Nitrosodimethylamine	Ave	0.6279	0.8742		0.348	0.250	39.2*	30.0
Bis(2-chloroethyl)ether	Ave	0.3461	0.3772		0.272	0.250	9.0	30.0
Naphthalene	Ave	1.024	1.070		0.261	0.250	4.4	30.0
2-Methylnaphthalene	Ave	0.7678	0.8110		0.264	0.250	5.6	30.0
1-Methylnaphthalene	Ave	0.7200	0.7553		0.262	0.250	4.9	30.0
Dimethylphthalate	Ave	1.176	1.367		0.291	0.250	16.2	30.0
Acenaphthylene	Ave	1.694	1.738		0.257	0.250	2.7	30.0
Acenaphthene	Ave	1.094	1.121		0.256	0.250	2.5	30.0
Dibenzofuran	Ave	1.680	1.727		0.257	0.250	2.8	30.0
Diethylphthalate	Ave	1.001	1.136		0.284	0.250	13.5	30.0
Fluorene	Ave	1.404	1.490		0.265	0.250	6.2	30.0
N-Nitrosodiphenylamine	Ave	0.4049	0.5823		0.306	0.213	43.8*	30.0
Hexachlorobenzene	Ave	0.2482	0.2570		0.259	0.250	3.6	30.0
Phenanthrene	Ave	1.063	1.114		0.262	0.250	4.8	30.0
Anthracene	Ave	0.9818	1.056		0.269	0.250	7.6	30.0
Di-n-butyl phthalate	Ave	0.8155	0.8505		0.261	0.250	4.3	30.0
Fluoranthene	Ave	1.396	1.405		0.252	0.250	0.7	30.0
Pyrene	Ave	1.238	1.280		0.258	0.250	3.4	30.0
Butylbenzylphthalate	Ave	0.3344	0.3348		0.250	0.250	0.1	30.0
Benzo[a]anthracene	Ave	1.297	1.324		0.255	0.250	2.1	30.0
Chrysene	Ave	1.367	1.433		0.262	0.250	4.8	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.5013	0.5096		0.254	0.250	1.7	30.0
Di-n-octyl phthalate	Ave	0.7332	0.7509		0.256	0.250	2.4	30.0
Benzo[b]fluoranthene	Ave	1.164	1.218		0.262	0.250	4.6	30.0
Benzo[k]fluoranthene	Ave	1.262	1.348		0.267	0.250	6.8	30.0
Benzo[a]pyrene	Ave	1.124	1.204		0.268	0.250	7.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.179		0.279	0.250	11.6	30.0
Dibenz(a,h)anthracene	Ave	1.187	1.253		0.264	0.250	5.6	30.0
Benzo[g,h,i]perylene	Ave	1.253	1.330		0.265	0.250	6.2	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0168.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 03-Jun-2021 12:52:40 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0030970-009
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 20:26:23 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1662

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.147	3.155	-0.008	82	6947	0.2500	0.2420	a
2 N-Nitrosodimethylamine	74	3.548	3.615	-0.067	79	9683	0.2500	0.3480	
3 Bis(2-chloroethyl)ether	93	6.479	6.479	0.000	96	13250	0.2500	0.2724	
* 4 1,4-Dichlorobenzene-d4	152	6.850	6.850	0.000	99	11077	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	91	35131	0.2500	0.2500	
6 Naphthalene	128	8.787	8.828	0.000	93	37578	0.2500	0.2610	
8 2-Methylnaphthalene	142	9.874	9.885	-0.012	96	28491	0.2500	0.2641	
10 1-Methylnaphthalene	142	10.033	10.032	0.001	96	26536	0.2500	0.2623	
11 Dimethyl phthalate	163	11.170	11.169	0.001	87	34033	0.2500	0.2906	
12 Acenaphthylene	152	11.304	11.304	0.000	99	43294	0.2500	0.2566	
* 13 Acenaphthene-d10	164	11.512	11.524	-0.012	96	24904	0.2500	0.2500	
14 Acenaphthene	154	11.561	11.561	0.000	93	27913	0.2500	0.2562	
15 Dibenzofuran	168	11.801	11.809	-0.007	100	43004	0.2500	0.2570	
16 Diethyl phthalate	149	12.137	12.144	-0.007	99	28293	0.2500	0.2837	
17 Fluorene	166	12.238	12.238	0.000	95	37114	0.2500	0.2654	
18 N-Nitrosodiphenylamine	169	12.402	12.410	-0.008	98	26644	0.2125	0.3056	
19 Hexachlorobenzene	284	12.909	12.909	0.000	91	13834	0.2500	0.2589	
* 20 Phenanthrene-d10	188	13.409	13.409	0.000	97	53833	0.2500	0.2500	
21 Phenanthrene	178	13.440	13.440	0.000	100	59959	0.2500	0.2619	
22 Anthracene	178	13.502	13.510	-0.008	100	56871	0.2500	0.2690	
23 Di-n-butyl phthalate	149	14.225	14.225	0.000	100	45784	0.2500	0.2607	
25 Fluoranthene	202	15.109	15.115	0.000	98	75642	0.2500	0.2517	
26 Pyrene	202	15.454	15.460	-0.006	97	77093	0.2500	0.2585	
27 Butyl benzyl phthalate	149	16.576	16.576	0.000	100	20165	0.2500	0.2503	
28 Benzo[a]anthracene	228	17.473	17.489	0.000	100	79720	0.2500	0.2552	
* 29 Chrysene-d12	240	17.496	17.496	0.000	92	60233	0.2500	0.2500	
30 Chrysene	228	17.535	17.542	-0.007	100	86310	0.2500	0.2621	
31 Bis(2-ethylhexyl) phthalate	149	17.634	17.634	0.000	97	30697	0.2500	0.2541	
32 Di-n-octyl phthalate	149	18.800	18.807	0.000	100	52275	0.2500	0.2560	
33 Benzo[b]fluoranthene	252	19.345	19.352	0.000	100	84797	0.2500	0.2616	
34 Benzo[k]fluoranthene	252	19.391	19.398	0.000	100	93829	0.2500	0.2670	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
37 Benzo[a]pyrene	252	19.874	19.882	0.000	100	83789	0.2500	0.2676	
* 38 Perylene-d12	264	19.966	19.966	0.000	98	69615	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.642	21.649	-0.007	98	82066	0.2500	0.2791	M
41 Dibenz(a,h)anthracene	278	21.685	21.700	-0.007	96	87232	0.2500	0.2639	
42 Benzo[g,h,i]perylene	276	22.087	22.102	-0.007	96	92616	0.2500	0.2654	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RVSIM_ICV_00021 Amount Added: 1.00 Units: mL

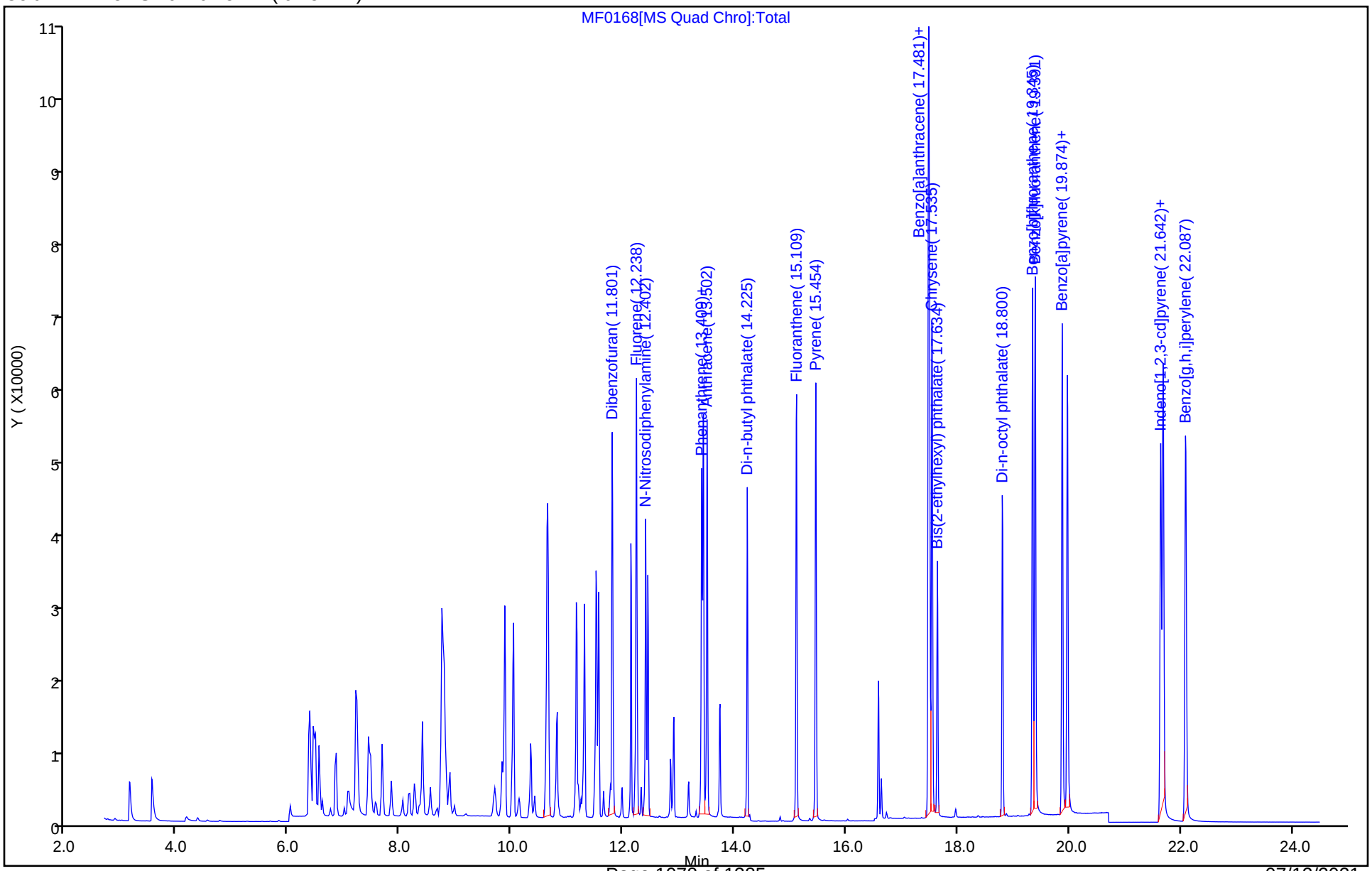
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0168.D

Injection Date:	03-Jun-2021 12:52:40	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

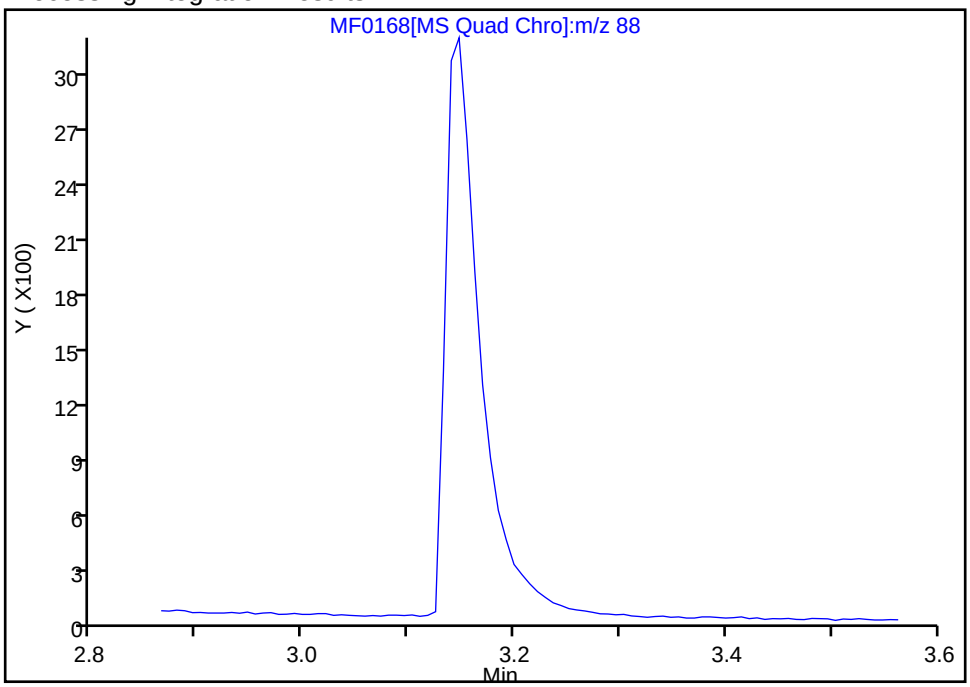
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Injection Date:	03-Jun-2021 12:52:40	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

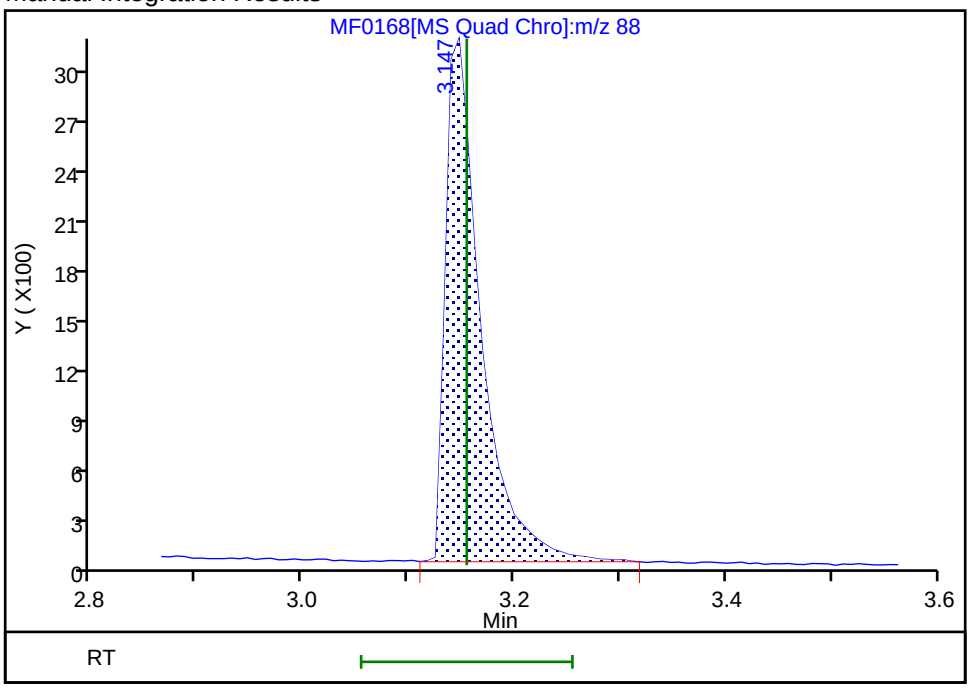
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 6947
Amount: 0.242039
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:29:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

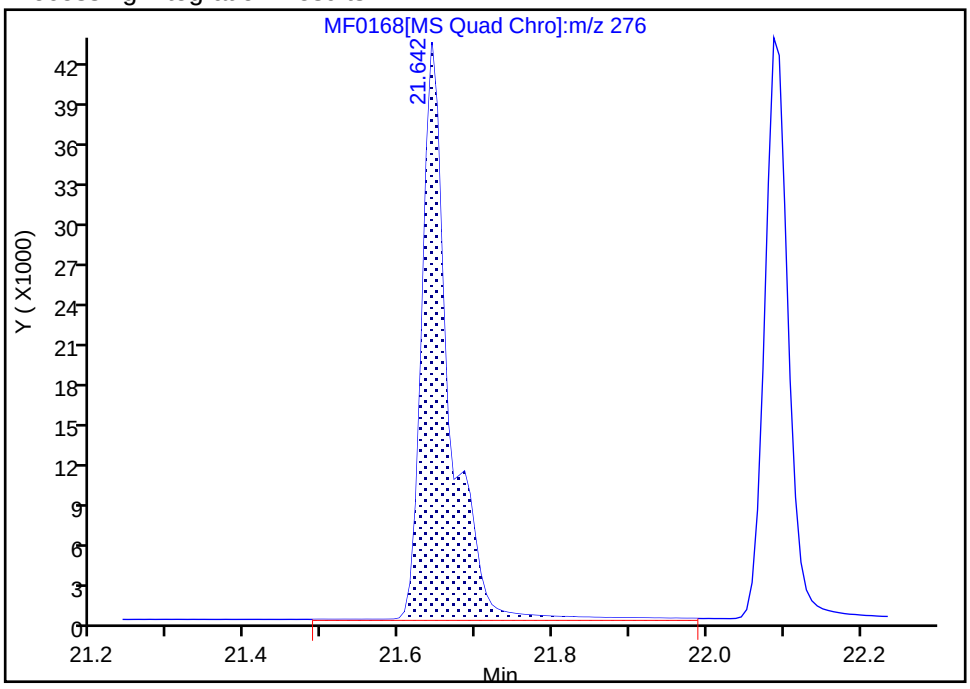
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Injection Date:	03-Jun-2021 12:52:40	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

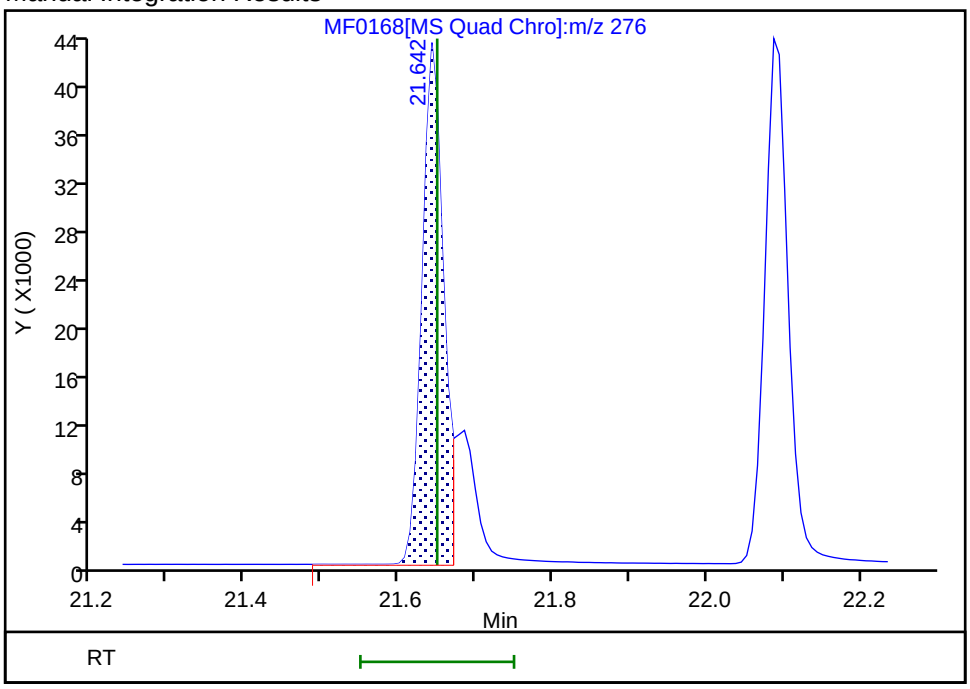
Processing Integration Results

RT: 21.64
Area: 107334
Amount: 0.365019
Amount Units: ug/ml



Manual Integration Results

RT: 21.64
Area: 82066
Amount: 0.279088
Amount Units: ug/ml



Reviewer: saadehw, 03-Jun-2021 18:28:41

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-143507/2 Calibration Date: 06/29/2021 18:47

Instrument ID: HP21585 Calib Start Date: 06/03/2021 09:18

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/03/2021 11:51

Lab File ID: MF2101a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6478	0.8695		0.134	0.100	34.2*	20.0
N-Nitrosodimethylamine	Ave	0.6279	0.7541		0.120	0.100	20.1*	20.0
Bis(2-chloroethyl)ether	Ave	0.3461	0.3341		0.0965	0.100	-3.5	20.0
Naphthalene	Ave	1.024	0.9503		0.0928	0.100	-7.2	20.0
Quinoline	Ave	0.5696	0.4605		0.0808	0.100	-19.2	20.0
2-Methylnaphthalene	Ave	0.7678	0.6890		0.0897	0.100	-10.3	20.0
1-Methylnaphthalene	Ave	0.7200	0.6626		0.0920	0.100	-8.0	20.0
Dimethylphthalate	Ave	1.176	1.119		0.952	1.00	-4.8	20.0
Acenaphthylene	Ave	1.694	1.640		0.0968	0.100	-3.2	20.0
Acenaphthene	Ave	1.094	1.036		0.0948	0.100	-5.2	20.0
Dibenzofuran	Ave	1.680	1.674		0.0996	0.100	-0.4	20.0
Diethylphthalate	Ave	1.001	1.064		1.06	1.00	6.3	20.0
Fluorene	Ave	1.404	1.363		0.0971	0.100	-2.9	20.0
N-Nitrosodiphenylamine	Ave	0.4049	0.4416		0.109	0.100	9.1	20.0
Hexachlorobenzene	Ave	0.2482	0.2176		0.0877	0.100	-12.3	20.0
Phenanthrene	Ave	1.063	1.017		0.0956	0.100	-4.4	20.0
Anthracene	Ave	0.9818	0.9935		0.101	0.100	1.2	20.0
Di-n-butyl phthalate	Ave	0.8155	0.8700		1.07	1.00	6.7	20.0
Fluoranthene	Ave	1.396	1.330		0.0953	0.100	-4.7	20.0
Pyrene	Ave	1.238	1.200		0.0969	0.100	-3.1	20.0
Butylbenzylphthalate	Ave	0.3344	0.3470		1.04	1.00	3.8	20.0
Benzo[a]anthracene	Ave	1.297	1.192		0.0920	0.100	-8.0	20.0
Chrysene	Ave	1.367	1.376		0.101	0.100	0.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5013	0.5141		1.03	1.00	2.5	20.0
Di-n-octyl phthalate	Ave	0.7332	0.7632		1.04	1.00	4.1	20.0
Benzo[b]fluoranthene	Ave	1.164	1.117		0.0960	0.100	-4.0	20.0
Benzo[k]fluoranthene	Ave	1.262	1.245		0.0986	0.100	-1.4	20.0
Benzo[e]pyrene	Ave	1.167	1.125		0.0964	0.100	-3.6	20.0
Benzo[a]pyrene	Ave	1.124	1.106		0.0984	0.100	-1.6	20.0
Perylene	Ave	1.207	1.147		0.0950	0.100	-5.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.044		0.0989	0.100	-1.1	20.0
Dibenz(a,h)anthracene	Ave	1.187	1.233		0.104	0.100	3.9	20.0
Benzo[g,h,i]perylene	Ave	1.253	1.229		0.0981	0.100	-1.9	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.6500	0.5867		0.0903	0.100	-9.7	20.0
Fluoranthene-d10 (Surr)	Ave	1.170	1.202		0.103	0.100	2.8	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9559	0.9757		0.102	0.100	2.1	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2101a.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Jun-2021 18:47:27 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033197-002, 4
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jun-2021 19:49:54 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: transuea Date: 29-Jun-2021 19:28:50

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.925	2.925	0.000	83	2659	0.1000	0.1342	M
	2 N-Nitrosodimethylamine	74	3.377	3.377	0.000	89	2306	0.1000	0.1201	
	3 Bis(2-chloroethyl)ether	93	6.355	6.355	0.000	95	3583	0.1000	0.0965	M
*	4 1,4-Dichlorobenzene-d4	152	6.726	6.726	0.000	90	7645	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.622	8.622	0.000	91	26809	0.2500	0.2500	
	6 Naphthalene	128	8.664	8.664	0.000	93	10191	0.1000	0.0928	
	7 Quinoline	129	9.241	9.241	0.000	100	4938	0.1000	0.0808	M
	8 2-Methylnaphthalene	142	9.761	9.761	0.000	96	7389	0.1000	0.0897	
$	9 1-Methylnaphthalene-d10	152	9.846	9.846	0.000	100	6292	0.1000	0.0903	
	10 1-Methylnaphthalene	142	9.907	9.907	0.000	97	7105	0.1000	0.0920	
	11 Dimethyl phthalate	163	11.044	11.044	0.000	90	77546	1.00	0.9516	
	12 Acenaphthylene	152	11.191	11.191	0.000	98	11369	0.1000	0.0968	
*	13 Acenaphthene-d10	164	11.399	11.399	0.000	97	17330	0.2500	0.2500	
	14 Acenaphthene	154	11.448	11.448	0.000	91	7185	0.1000	0.0948	M
	15 Dibenzofuran	168	11.713	11.713	0.000	100	11601	0.1000	0.0996	
	16 Diethyl phthalate	149	12.056	12.056	0.000	99	73775	1.00	1.06	
	17 Fluorene	166	12.150	12.150	0.000	97	9448	0.1000	0.0971	
	18 N-Nitrosodiphenylamine	169	12.337	12.337	0.000	98	6400	0.1000	0.1091	
	19 Hexachlorobenzene	284	12.814	12.814	0.000	98	3153	0.1000	0.0877	M
*	20 Phenanthrene-d10	188	13.305	13.305	0.000	95	36229	0.2500	0.2500	
	21 Phenanthrene	178	13.337	13.337	0.000	100	14734	0.1000	0.0956	
	22 Anthracene	178	13.407	13.407	0.000	100	14398	0.1000	0.1012	
	23 Di-n-butyl phthalate	149	14.109	14.109	0.000	98	126083	1.00	1.07	
$	24 Fluoranthene-d10 (Surr)	212	14.961	14.961	0.000	96	17426	0.1000	0.1028	
	25 Fluoranthene	202	14.987	14.987	0.000	98	19275	0.1000	0.0953	M
	26 Pyrene	202	15.331	15.331	0.000	97	20118	0.1000	0.0969	
	27 Butyl benzyl phthalate	149	16.441	16.441	0.000	98	58181	1.00	1.04	
	28 Benzo[a]anthracene	228	17.332	17.332	0.000	100	19995	0.1000	0.0920	
*	29 Chrysene-d12	240	17.347	17.347	0.000	88	41919	0.2500	0.2500	
	30 Chrysene	228	17.401	17.401	0.000	100	23076	0.1000	0.1007	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.485	17.485	0.000	99	86195	1.00	1.03	
32 Di-n-octyl phthalate	149	18.643	18.643	0.000	100	155402	1.00	1.04	
33 Benzo[b]fluoranthene	252	19.196	19.196	0.000	100	22752	0.1000	0.0960	
34 Benzo[k]fluoranthene	252	19.242	19.242	0.000	100	25348	0.1000	0.0986	
35 Benzo[e]pyrene	252	19.640	19.640	0.000	100	22913	0.1000	0.0964	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.686	19.686	0.000	97	19869	0.1000	0.1021	M
37 Benzo[a]pyrene	252	19.725	19.725	0.000	100	22523	0.1000	0.0984	
* 38 Perylene-d12	264	19.817	19.817	0.000	98	50908	0.2500	0.2500	
39 Perylene	252	19.863	19.863	0.000	100	23353	0.1000	0.0950	
40 Indeno[1,2,3-cd]pyrene	276	21.476	21.476	0.000	98	21260	0.1000	0.0989	M
41 Dibenz(a,h)anthracene	278	21.512	21.512	0.000	95	25109	0.1000	0.1039	
42 Benzo[g,h,i]perylene	276	21.907	21.907	0.000	94	25019	0.1000	0.0981	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

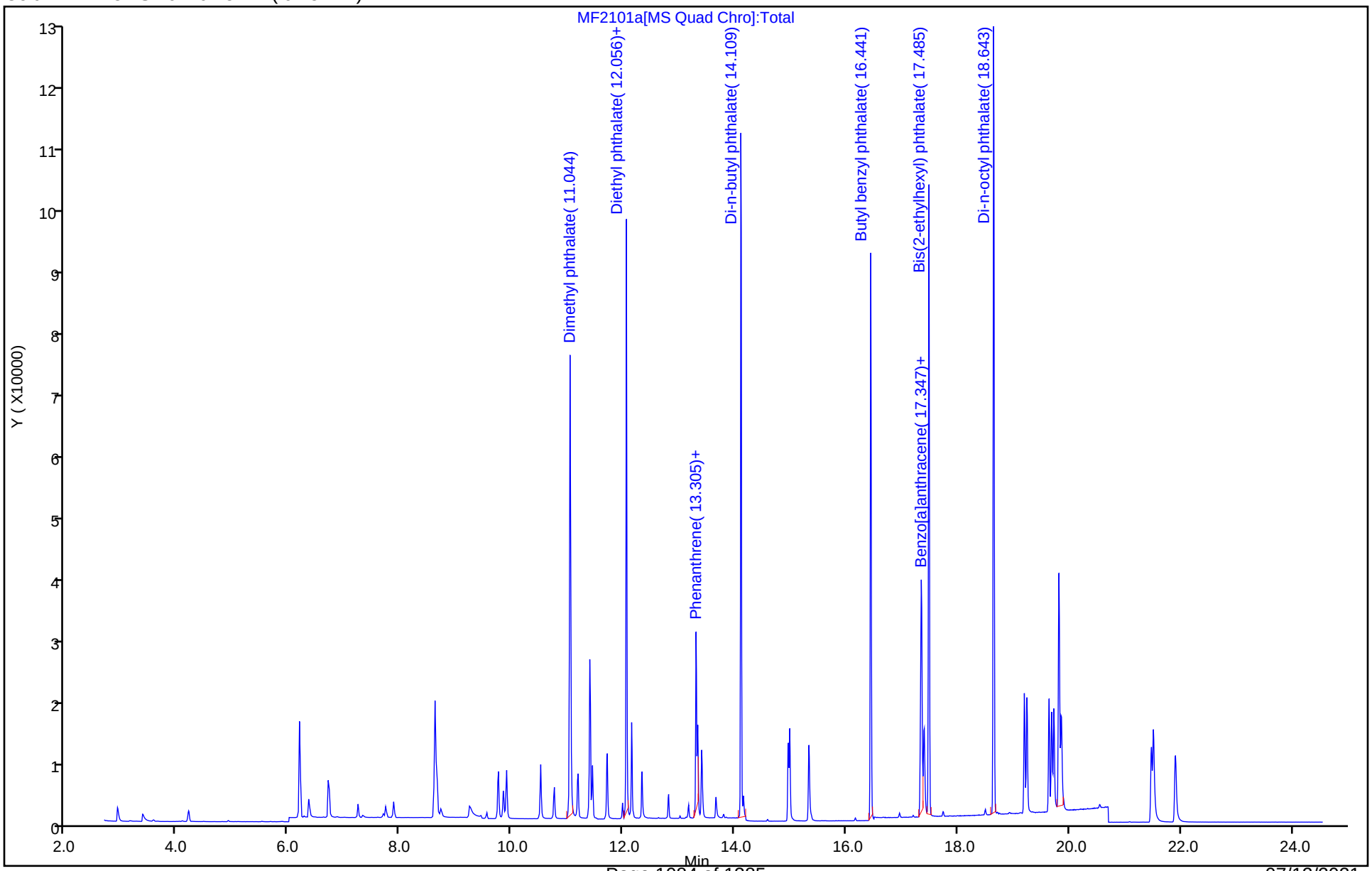
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	29-Jun-2021 18:47:27	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

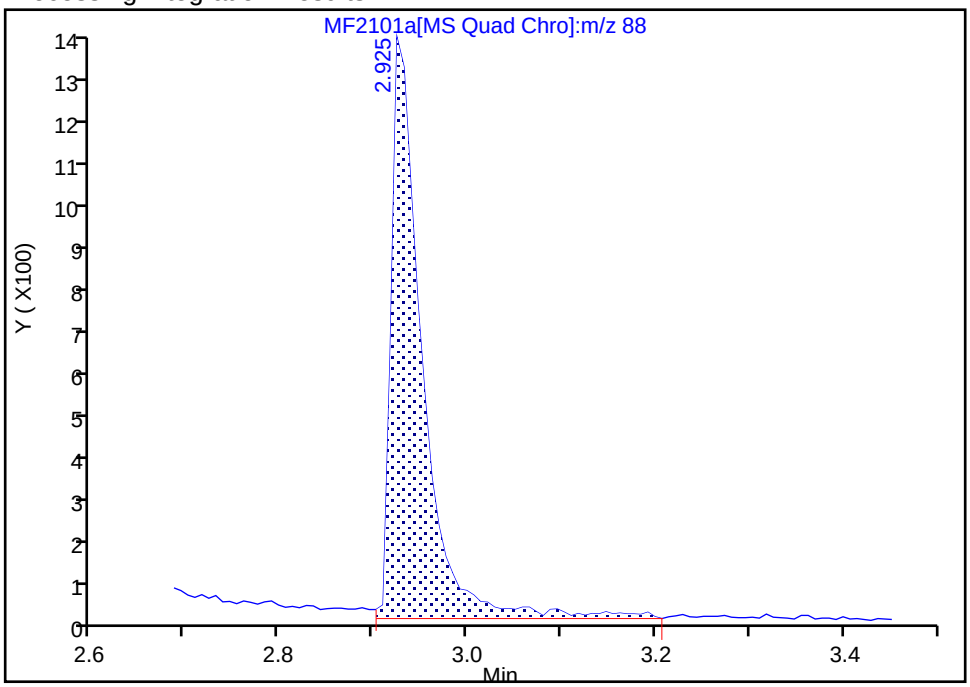
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Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

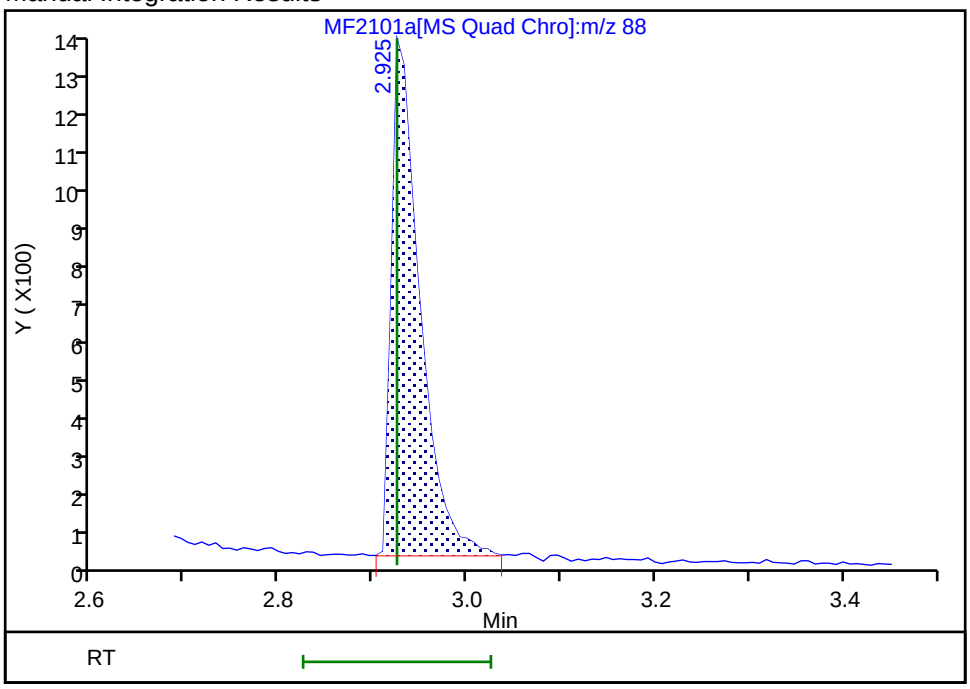
Processing Integration Results

RT: 2.92
Area: 2948
Amount: 0.148819
Amount Units: ug/ml



Manual Integration Results

RT: 2.92
Area: 2659
Amount: 0.134230
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:36:02

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

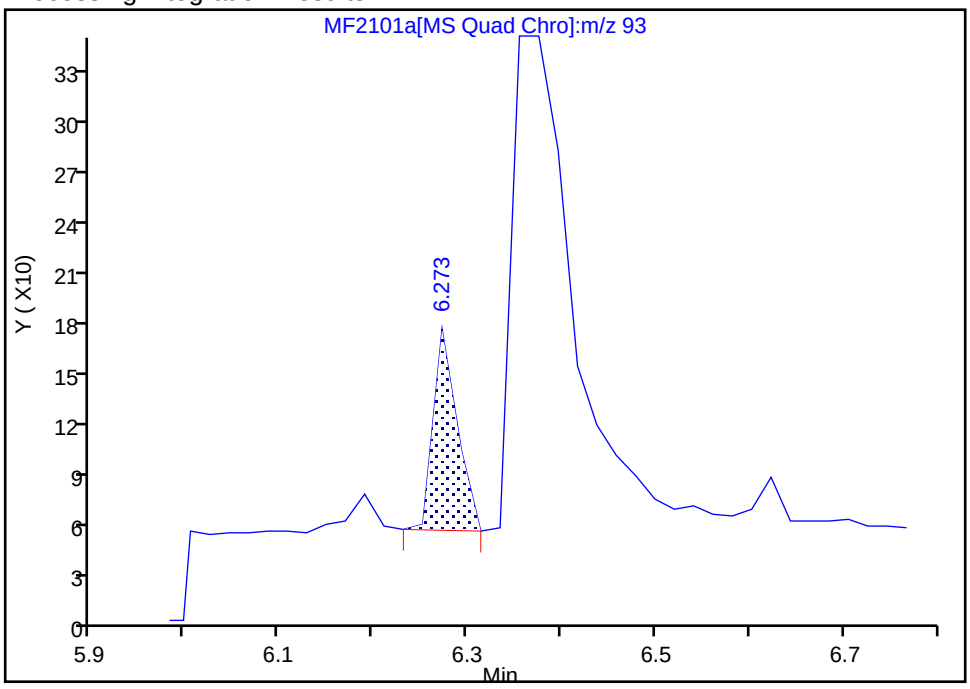
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Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

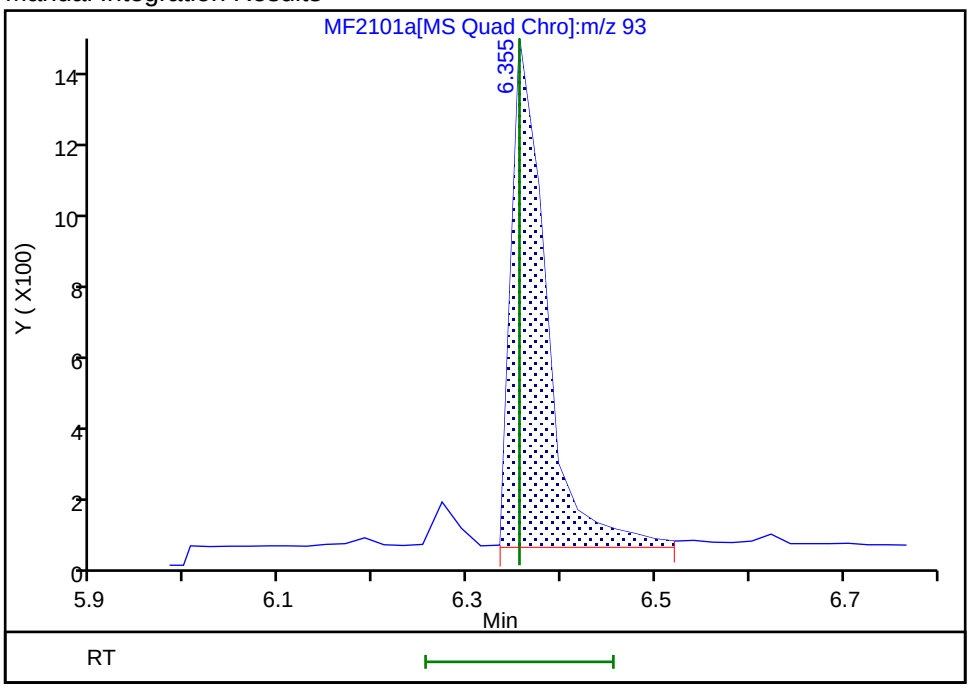
Processing Integration Results

RT: 6.27
Area: 210
Amount: 0.005658
Amount Units: ug/ml



Manual Integration Results

RT: 6.36
Area: 3583
Amount: 0.096539
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:36:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

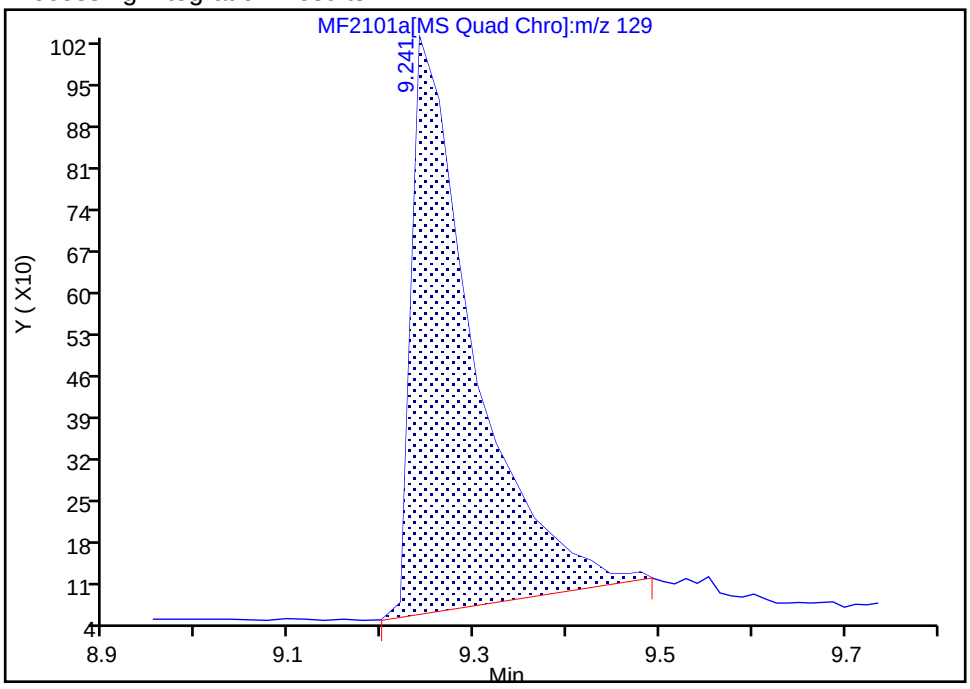
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Injection Date: 29-Jun-2021 18:47:27 Instrument ID: HP21585
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

7 Quinoline, CAS: 91-22-5

Signal: 1

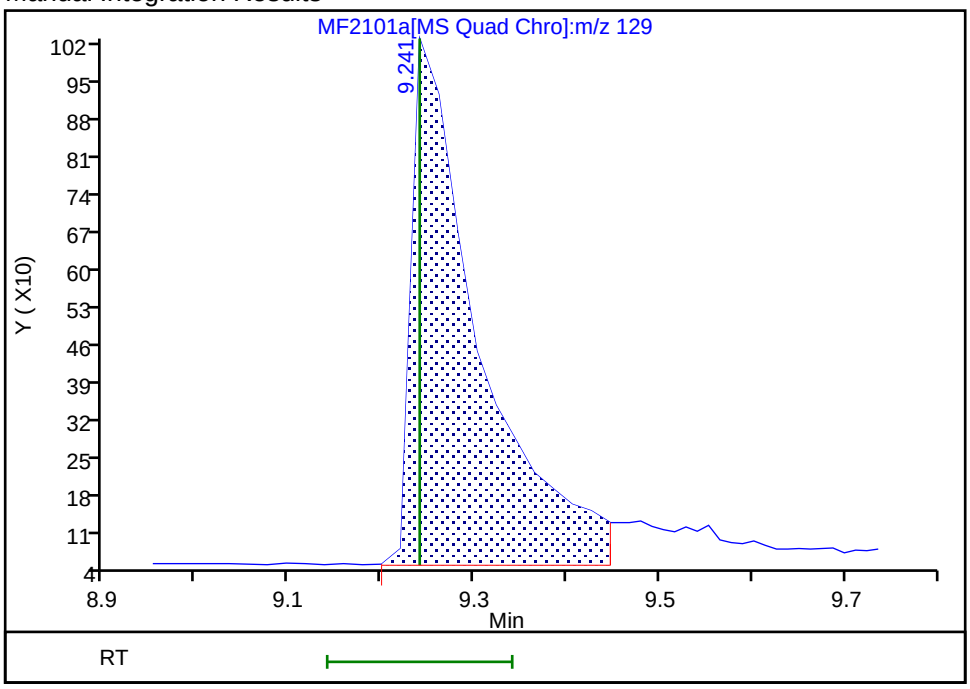
Processing Integration Results

RT: 9.24
Area: 4511
Amount: 0.073847
Amount Units: ug/ml



Manual Integration Results

RT: 9.24
Area: 4938
Amount: 0.080837
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:36:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

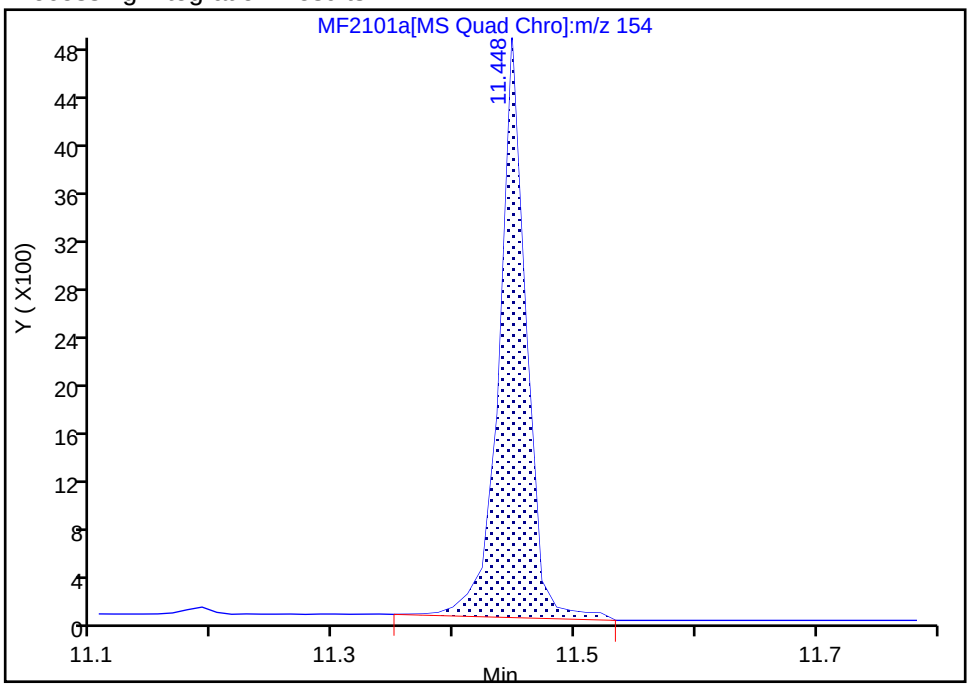
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Injection Date: 29-Jun-2021 18:47:27 Instrument ID: HP21585
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

14 Acenaphthene, CAS: 83-32-9

Signal: 1

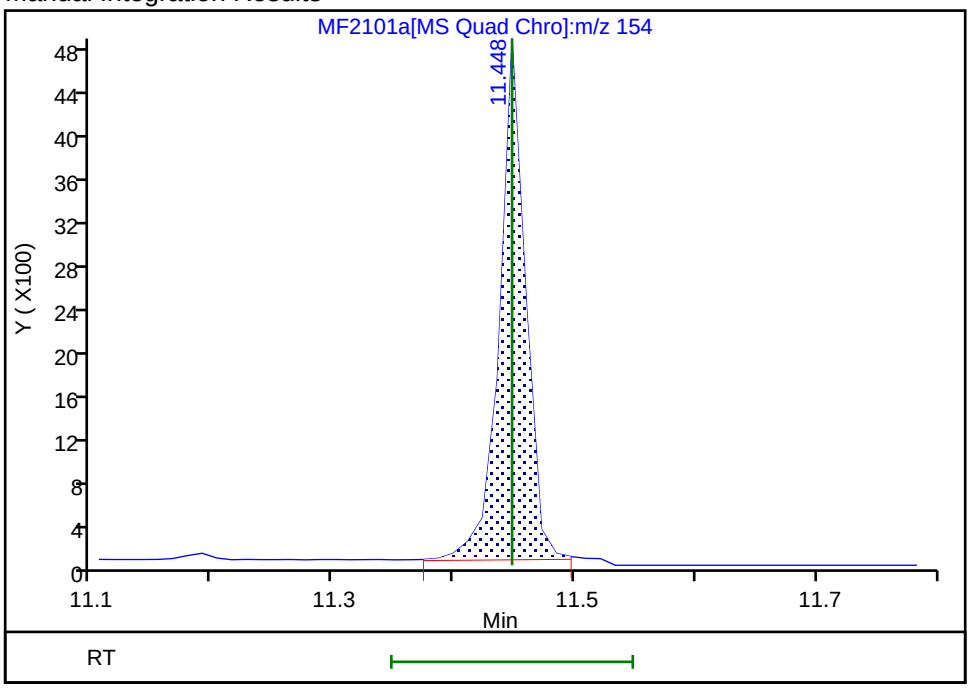
Processing Integration Results

RT: 11.45
Area: 7465
Amount: 0.098462
Amount Units: ug/ml



Manual Integration Results

RT: 11.45
Area: 7185
Amount: 0.094769
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:36:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

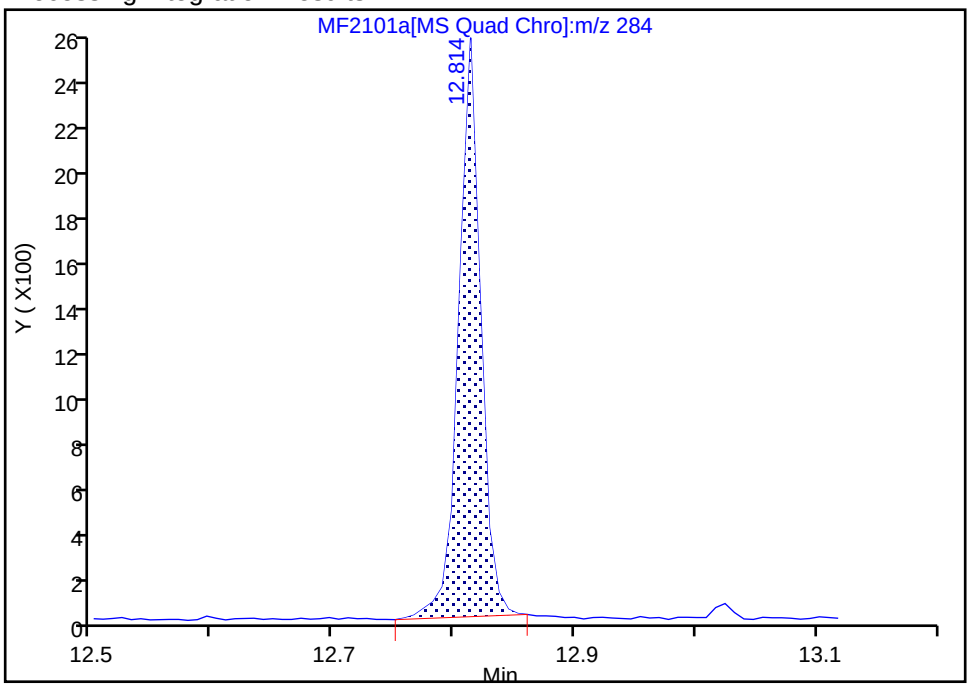
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Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

19 Hexachlorobenzene, CAS: 118-74-1

Signal: 1

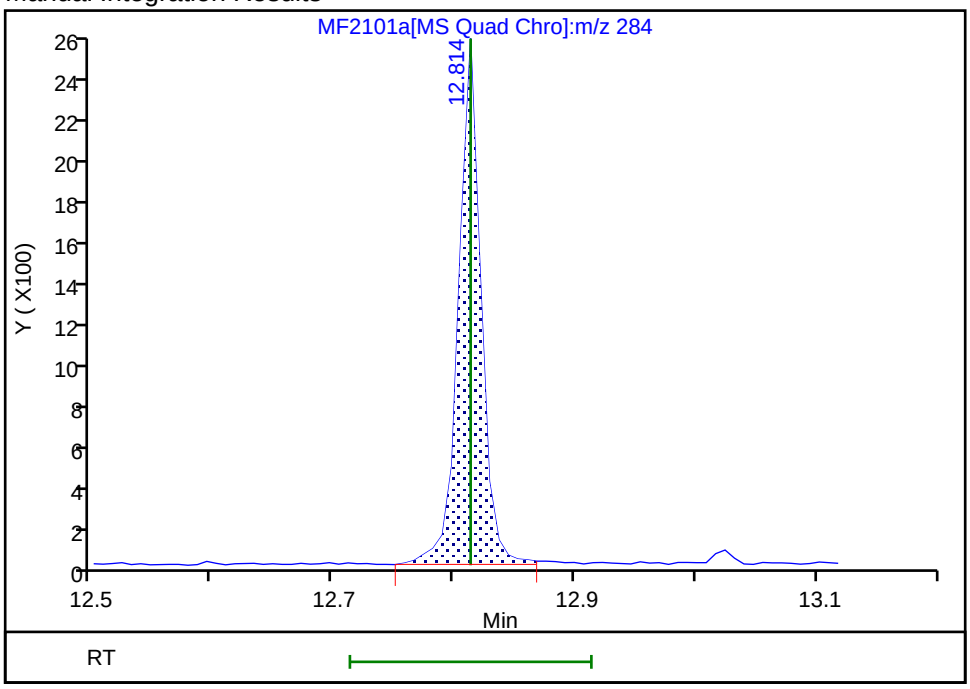
Processing Integration Results

RT: 12.81
Area: 3079
Amount: 0.085615
Amount Units: ug/ml



Manual Integration Results

RT: 12.81
Area: 3153
Amount: 0.087673
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:37:30

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

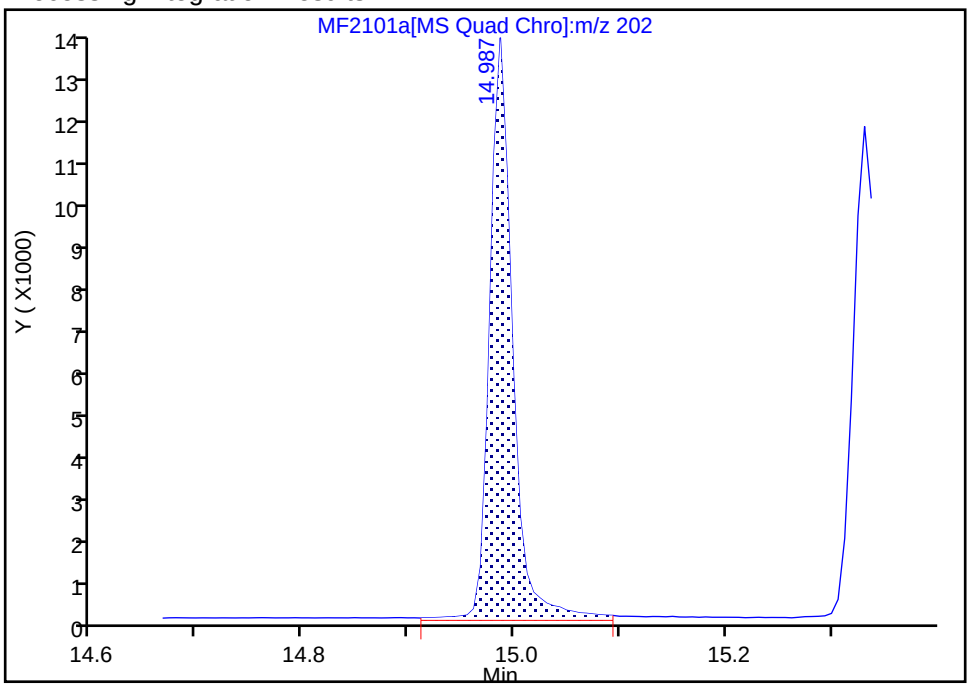
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Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

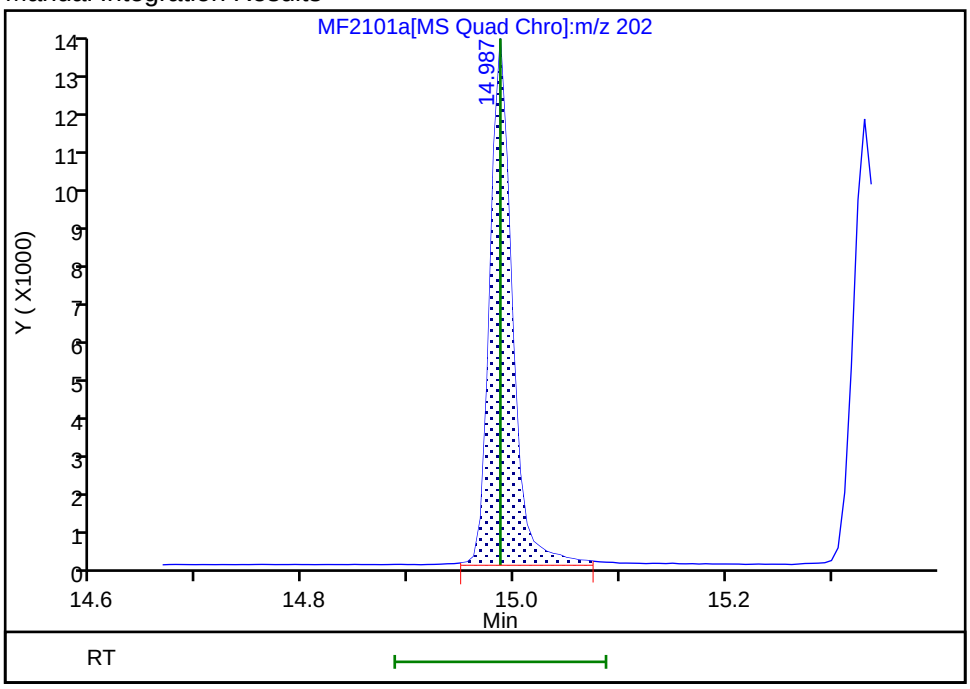
Processing Integration Results

RT: 14.99
Area: 19871
Amount: 0.098248
Amount Units: ug/ml



Manual Integration Results

RT: 14.99
Area: 19275
Amount: 0.095302
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:37:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

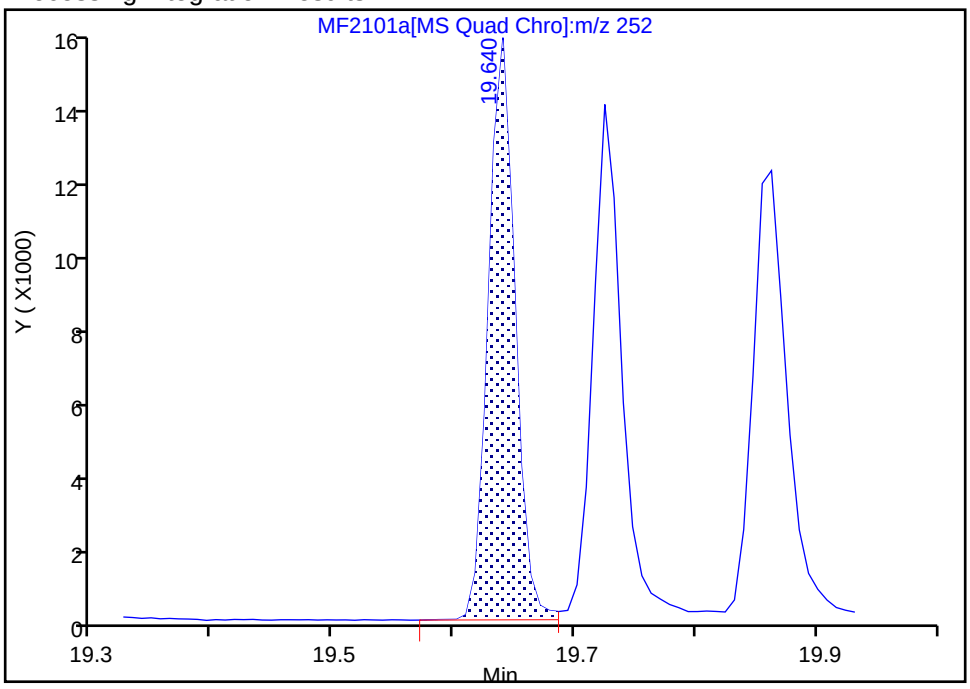
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Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

35 Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

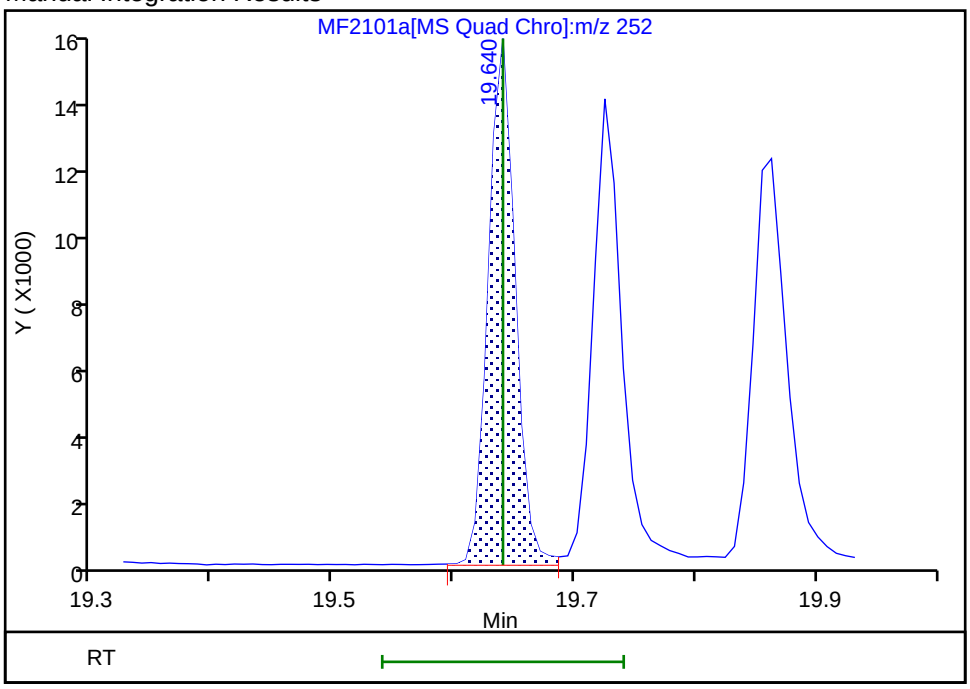
Processing Integration Results

RT: 19.64
Area: 22797
Amount: 0.095948
Amount Units: ug/ml



Manual Integration Results

RT: 19.64
Area: 22913
Amount: 0.096436
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:38:20

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

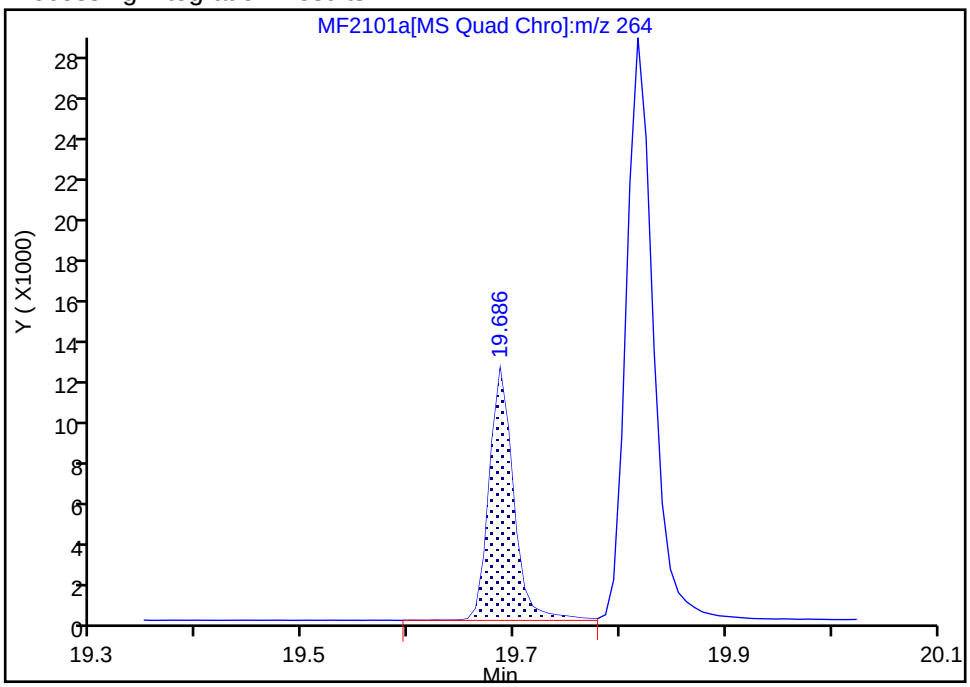
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Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

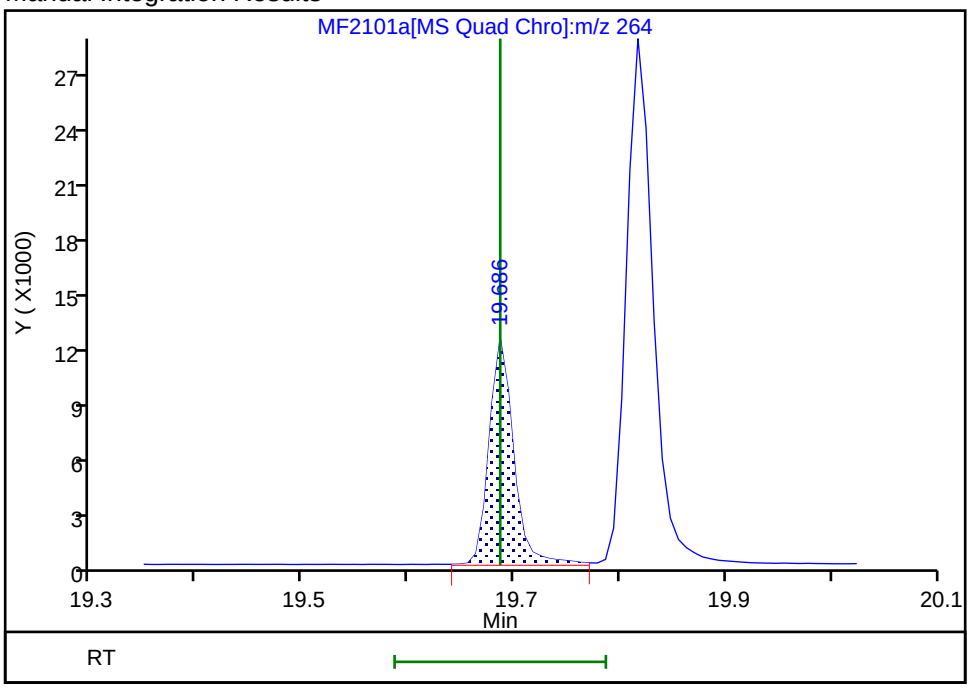
Processing Integration Results

RT: 19.69
Area: 19605
Amount: 0.100715
Amount Units: ug/ml



Manual Integration Results

RT: 19.69
Area: 19869
Amount: 0.102072
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:38:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

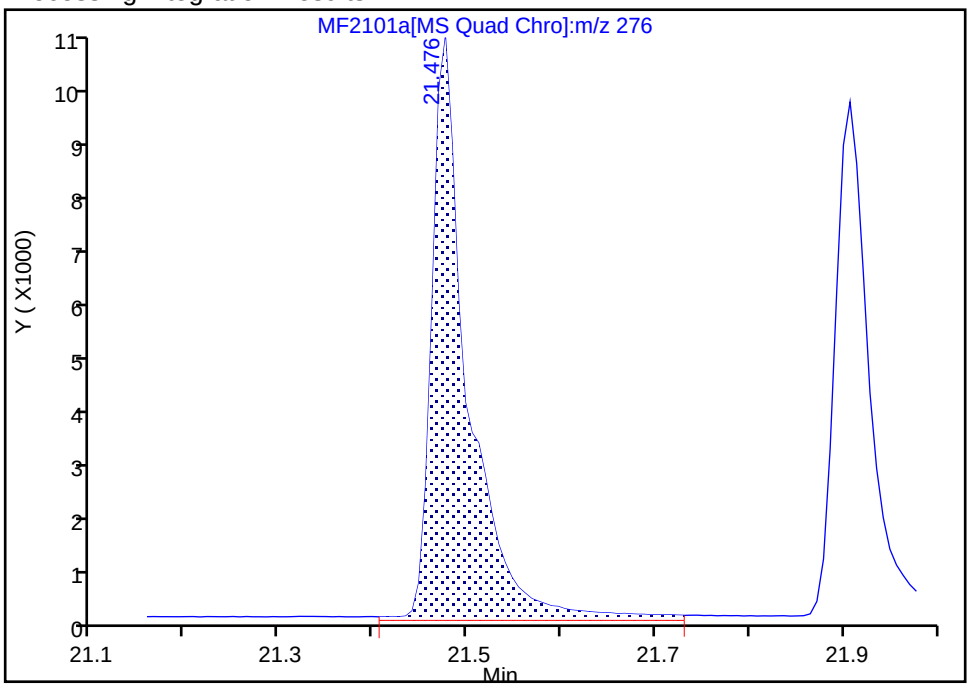
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2101a.D				
Injection Date:	29-Jun-2021 18:47:27	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

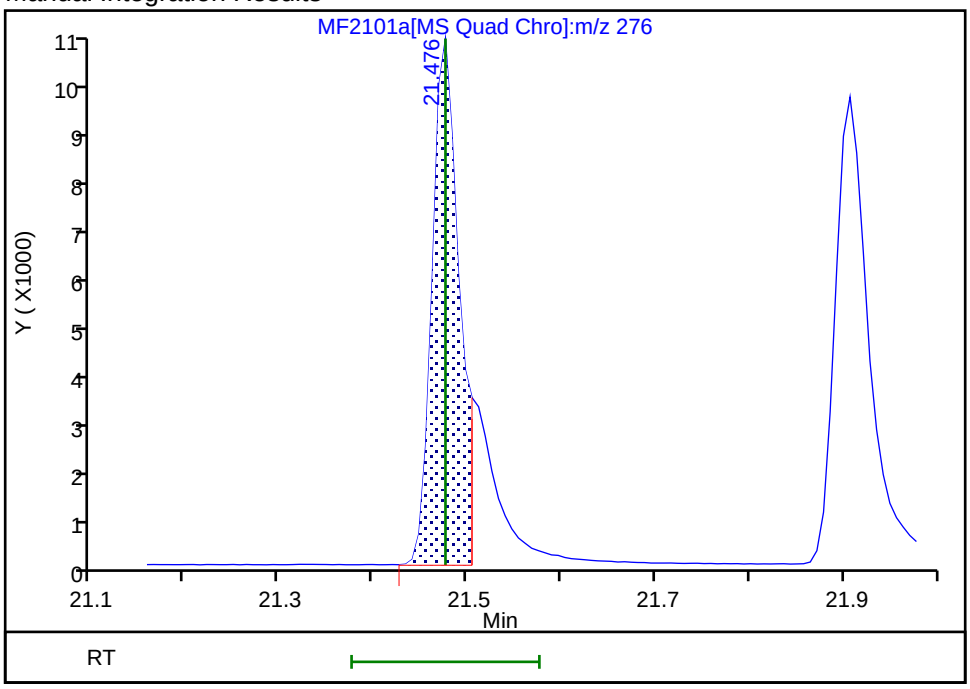
Processing Integration Results

RT: 21.48
Area: 29335
Amount: 0.136421
Amount Units: ug/ml



Manual Integration Results

RT: 21.48
Area: 21260
Amount: 0.098869
Amount Units: ug/ml



Reviewer: transuea, 29-Jun-2021 19:38:53

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-143973/2 Calibration Date: 06/30/2021 20:53

Instrument ID: HP21585 Calib Start Date: 06/03/2021 09:18

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/03/2021 11:51

Lab File ID: MF2201b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6478	0.8142		0.126	0.100	25.7*	20.0
N-Nitrosodimethylamine	Ave	0.6279	0.7613		0.121	0.100	21.2*	20.0
Bis(2-chloroethyl)ether	Ave	0.3461	0.3630		0.105	0.100	4.9	20.0
Naphthalene	Ave	1.024	0.9851		0.0962	0.100	-3.8	20.0
Quinoline	Ave	0.5696	0.4478		0.0786	0.100	-21.4*	20.0
2-Methylnaphthalene	Ave	0.7678	0.7190		0.0936	0.100	-6.4	20.0
1-Methylnaphthalene	Ave	0.7200	0.6881		0.0956	0.100	-4.4	20.0
Dimethylphthalate	Ave	1.176	1.122		0.954	1.00	-4.6	20.0
Acenaphthylene	Ave	1.694	1.640		0.0968	0.100	-3.2	20.0
Acenaphthene	Ave	1.094	1.049		0.0959	0.100	-4.1	20.0
Dibenzofuran	Ave	1.680	1.657		0.0987	0.100	-1.3	20.0
Diethylphthalate	Ave	1.001	1.057		1.06	1.00	5.6	20.0
Fluorene	Ave	1.404	1.370		0.0976	0.100	-2.4	20.0
N-Nitrosodiphenylamine	Ave	0.4049	0.4426		0.109	0.100	9.3	20.0
Hexachlorobenzene	Ave	0.2482	0.2115		0.0852	0.100	-14.8	20.0
Phenanthrene	Ave	1.063	1.004		0.0944	0.100	-5.6	20.0
Anthracene	Ave	0.9818	0.9801		0.0998	0.100	-0.2	20.0
Di-n-butyl phthalate	Ave	0.8155	0.8105		0.994	1.00	-0.6	20.0
Fluoranthene	Ave	1.396	1.296		0.0929	0.100	-7.1	20.0
Pyrene	Ave	1.238	1.257		0.102	0.100	1.5	20.0
Butylbenzylphthalate	Ave	0.3344	0.3409		1.02	1.00	1.9	20.0
Benzo[a]anthracene	Ave	1.297	1.221		0.0942	0.100	-5.8	20.0
Chrysene	Ave	1.367	1.335		0.0976	0.100	-2.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5013	0.4977		0.993	1.00	-0.7	20.0
Di-n-octyl phthalate	Ave	0.7332	0.7915		1.08	1.00	7.9	20.0
Benzo[b]fluoranthene	Ave	1.164	1.116		0.0959	0.100	-4.1	20.0
Benzo[k]fluoranthene	Ave	1.262	1.239		0.0982	0.100	-1.8	20.0
Benzo[e]pyrene	Ave	1.167	1.122		0.0961	0.100	-3.9	20.0
Benzo[a]pyrene	Ave	1.124	1.098		0.0976	0.100	-2.4	20.0
Perylene	Ave	1.207	1.146		0.0949	0.100	-5.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.222		0.116	0.100	15.7	20.0
Dibenz(a,h)anthracene	Ave	1.187	1.395		0.118	0.100	17.6	20.0
Benzo[g,h,i]perylene	Ave	1.253	1.352		0.108	0.100	7.9	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.6500	0.5918		0.0910	0.100	-9.0	20.0
Fluoranthene-d10 (Surr)	Ave	1.170	1.144		0.0978	0.100	-2.2	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9559	0.9876		0.103	0.100	3.3	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2201b.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Jun-2021 20:53:18 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033298-002, 4
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Jun-2021 21:30:58 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: transuea Date: 30-Jun-2021 21:30:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.899	2.899	0.000	84	3491	0.1000	0.1257	M
2 N-Nitrosodimethylamine	74	3.351	3.351	0.000	88	3264	0.1000	0.1212	
3 Bis(2-chloroethyl)ether	93	6.338	6.338	0.000	99	5028	0.1000	0.1049	
* 4 1,4-Dichlorobenzene-d4	152	6.689	6.689	0.000	96	10719	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	34624	0.2500	0.2500	
6 Naphthalene	128	8.626	8.626	0.000	93	13643	0.1000	0.0962	
7 Quinoline	129	9.224	9.224	0.000	98	6202	0.1000	0.0786	
8 2-Methylnaphthalene	142	9.728	9.728	0.000	96	9958	0.1000	0.0936	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	8196	0.1000	0.0910	
10 1-Methylnaphthalene	142	9.887	9.887	0.000	97	9530	0.1000	0.0956	
11 Dimethyl phthalate	163	11.024	11.024	0.000	92	102125	1.00	0.9541	
12 Acenaphthylene	152	11.170	11.170	0.000	99	14933	0.1000	0.0968	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	97	22763	0.2500	0.2500	
14 Acenaphthene	154	11.427	11.427	0.000	92	9551	0.1000	0.0959	
15 Dibenzofuran	168	11.689	11.689	0.000	99	15088	0.1000	0.0987	
16 Diethyl phthalate	149	12.040	12.040	0.000	100	96236	1.00	1.06	
17 Fluorene	166	12.134	12.134	0.000	98	12473	0.1000	0.0976	
18 N-Nitrosodiphenylamine	169	12.313	12.313	0.000	100	8475	0.1000	0.1093	
19 Hexachlorobenzene	284	12.789	12.789	0.000	99	4050	0.1000	0.0852	
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	95	47871	0.2500	0.2500	
21 Phenanthrene	178	13.312	13.312	0.000	100	19227	0.1000	0.0944	
22 Anthracene	178	13.383	13.383	0.000	100	18768	0.1000	0.0998	
23 Di-n-butyl phthalate	149	14.093	14.093	0.000	98	155199	1.00	0.99	
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.931	0.000	97	21898	0.1000	0.0978	
25 Fluoranthene	202	14.962	14.962	0.000	99	24823	0.1000	0.0929	
26 Pyrene	202	15.307	15.307	0.000	97	25018	0.1000	0.1015	
27 Butyl benzyl phthalate	149	16.416	16.416	0.000	98	67863	1.00	1.02	
28 Benzo[a]anthracene	228	17.310	17.310	0.000	100	24305	0.1000	0.0942	
* 29 Chrysene-d12	240	17.325	17.325	0.000	70	49764	0.2500	0.2500	
30 Chrysene	228	17.371	17.371	0.000	100	26565	0.1000	0.0976	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.455	17.455	0.000	99	99067	1.00	0.99	
32 Di-n-octyl phthalate	149	18.621	18.621	0.000	100	181627	1.00	1.08	
33 Benzo[b]fluoranthene	252	19.166	19.166	0.000	100	25610	0.1000	0.0959	
34 Benzo[k]fluoranthene	252	19.212	19.212	0.000	100	28441	0.1000	0.0982	
35 Benzo[e]pyrene	252	19.610	19.610	0.000	100	25737	0.1000	0.0961	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.656	19.656	0.000	97	22663	0.1000	0.1033	
37 Benzo[a]pyrene	252	19.695	19.695	0.000	100	25187	0.1000	0.0976	
* 38 Perylene-d12	264	19.787	19.787	0.000	97	57368	0.2500	0.2500	
39 Perylene	252	19.833	19.833	0.000	100	26288	0.1000	0.0949	
40 Indeno[1,2,3-cd]pyrene	276	21.442	21.442	0.000	97	28035	0.1000	0.1157	M
41 Dibenz(a,h)anthracene	278	21.477	21.477	0.000	86	32018	0.1000	0.1176	M
42 Benzo[g,h,i]perylene	276	21.873	21.873	0.000	93	31028	0.1000	0.1079	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

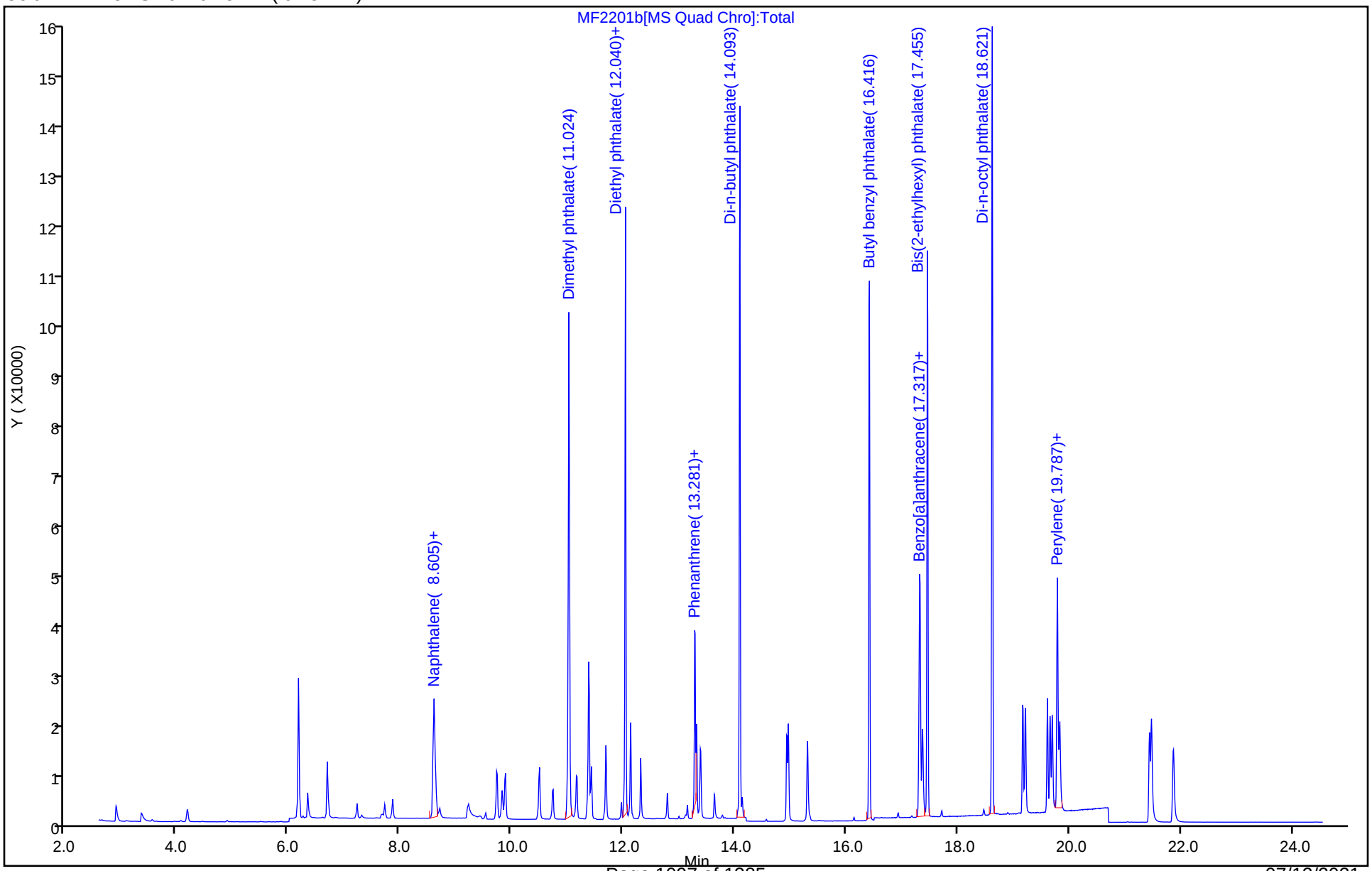
Report Date: 30-Jun-2021 21:30:58 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	30-Jun-2021 20:53:18	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

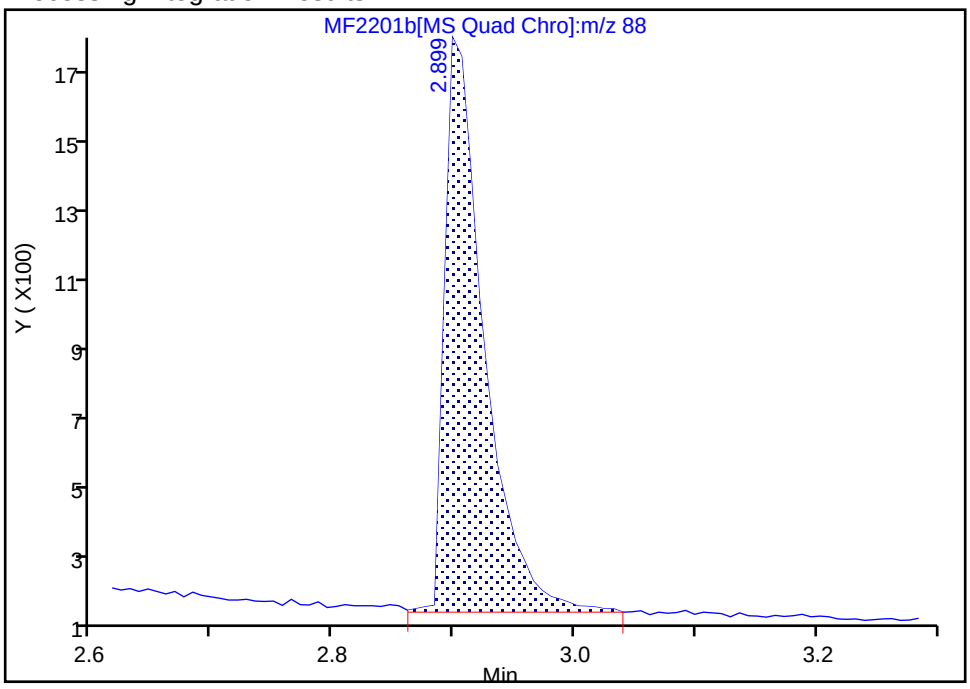
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Injection Date:	30-Jun-2021 20:53:18	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

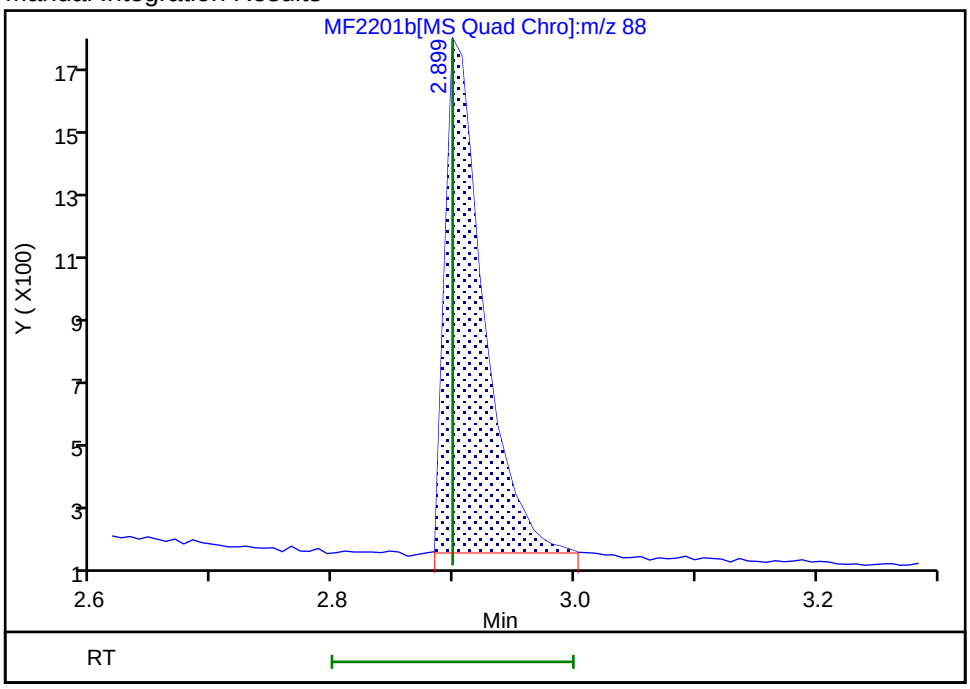
Processing Integration Results

RT: 2.90
Area: 3640
Amount: 0.131056
Amount Units: ug/ml



Manual Integration Results

RT: 2.90
Area: 3491
Amount: 0.125691
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 21:24:26

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

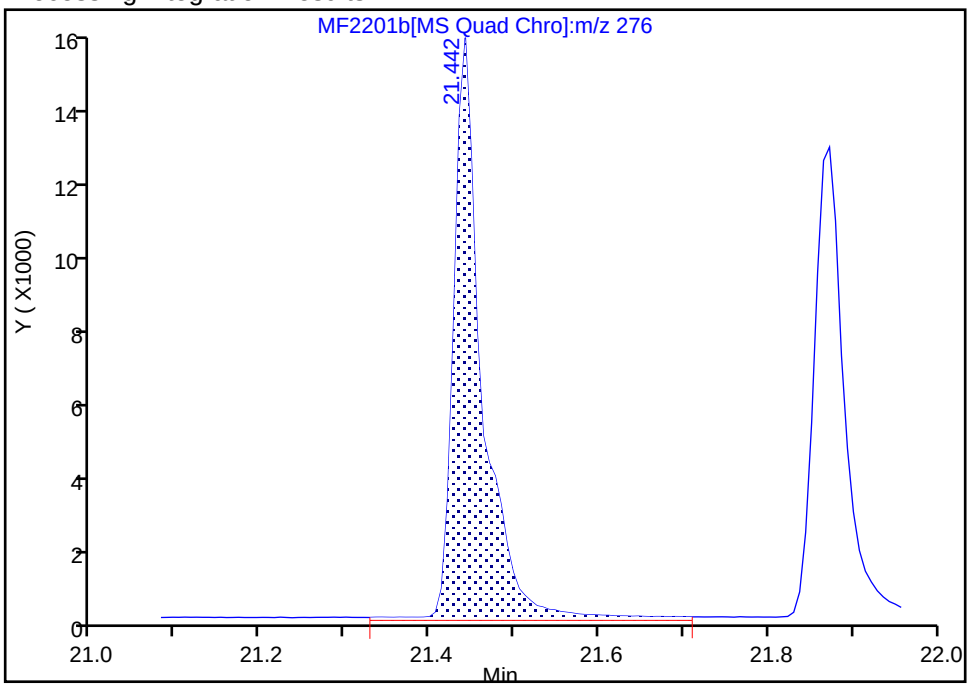
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Injection Date:	30-Jun-2021 20:53:18	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

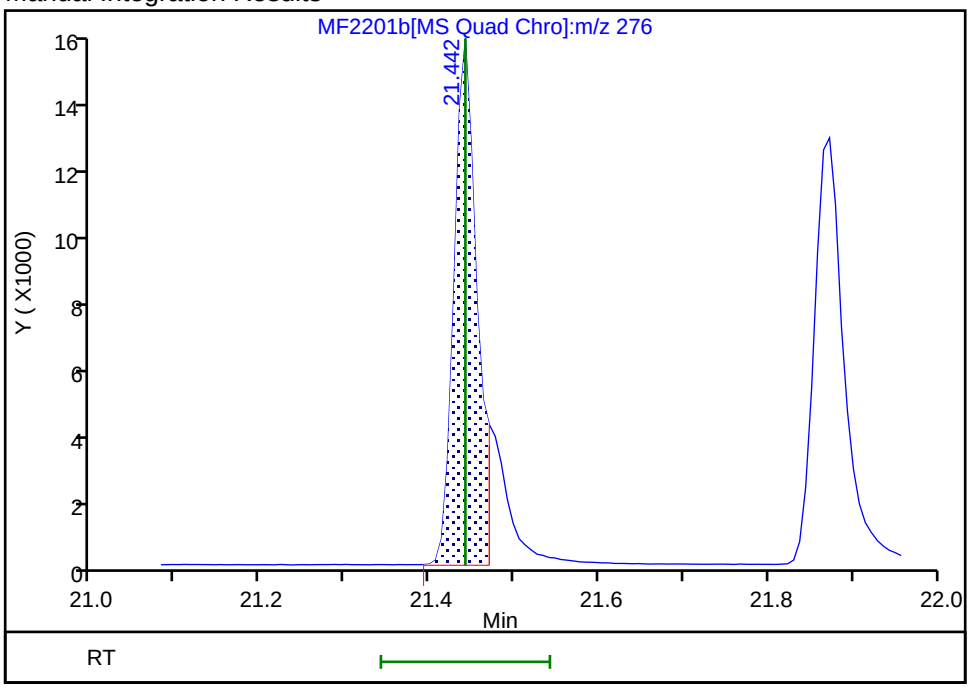
Processing Integration Results

RT: 21.44
Area: 36331
Amount: 0.149930
Amount Units: ug/ml



Manual Integration Results

RT: 21.44
Area: 28035
Amount: 0.115694
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 21:23:42

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

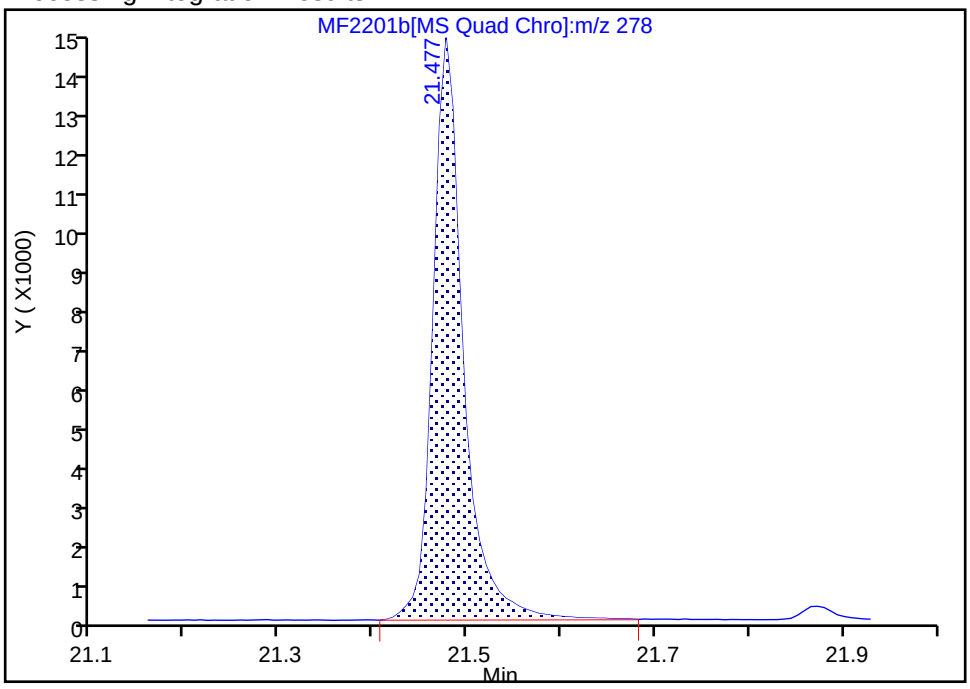
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Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

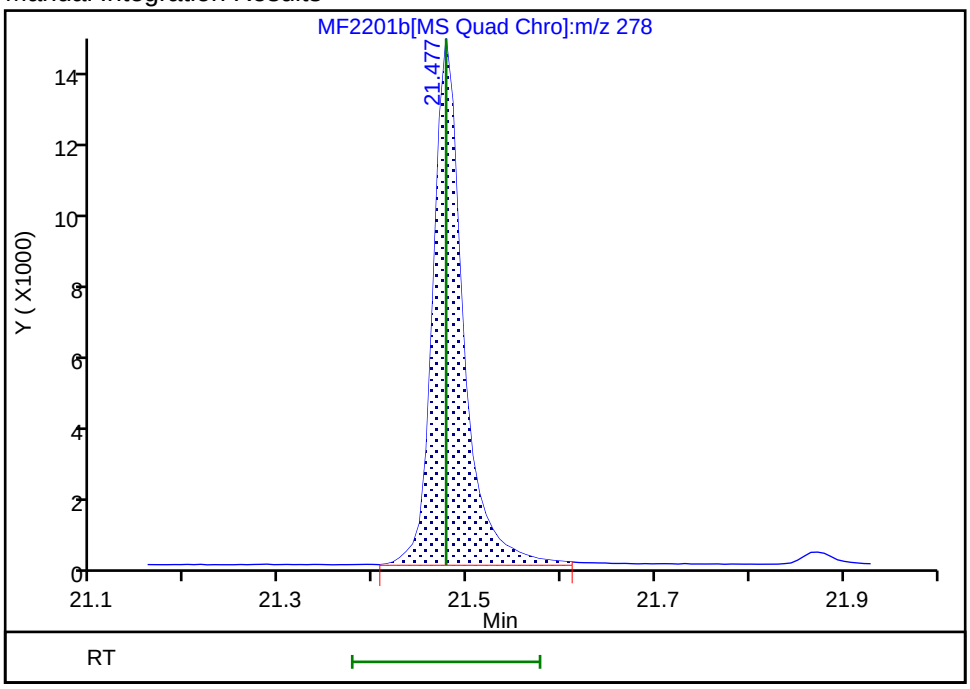
Processing Integration Results

RT: 21.48
Area: 31926
Amount: 0.117224
Amount Units: ug/ml



Manual Integration Results

RT: 21.48
Area: 32018
Amount: 0.117562
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 21:23:57

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

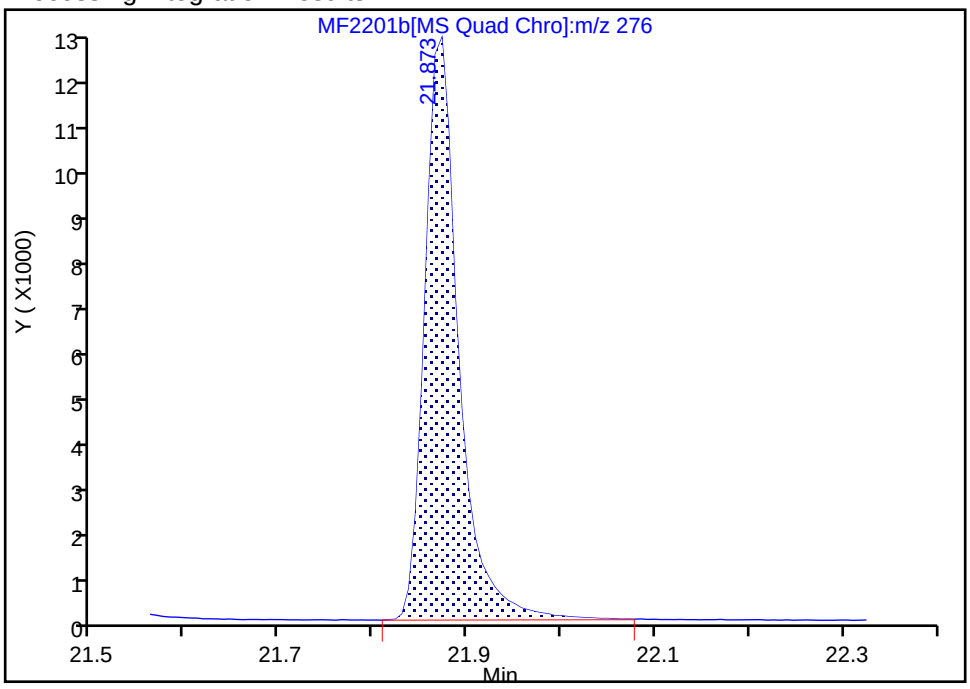
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Injection Date:	30-Jun-2021 20:53:18	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

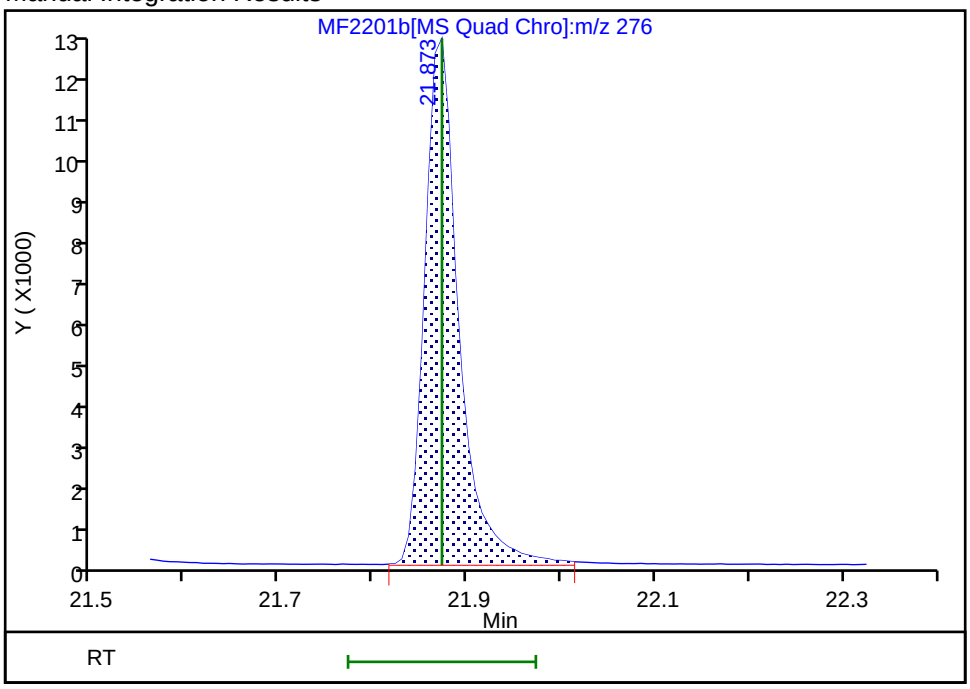
Processing Integration Results

RT: 21.87
Area: 30888
Amount: 0.107428
Amount Units: ug/ml



Manual Integration Results

RT: 21.87
Area: 31028
Amount: 0.107915
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 21:24:07

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144441/2 Calibration Date: 07/01/2021 21:45

Instrument ID: HP21585 Calib Start Date: 06/03/2021 09:18

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/03/2021 11:51

Lab File ID: MG0011.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6478	0.8431		0.130	0.100	30.1*	20.0
N-Nitrosodimethylamine	Ave	0.6279	0.7903		0.126	0.100	25.9*	20.0
Bis(2-chloroethyl)ether	Ave	0.3461	0.3429		0.0991	0.100	-0.9	20.0
Naphthalene	Ave	1.024	0.9561		0.0933	0.100	-6.7	20.0
Quinoline	Ave	0.5696	0.4595		0.0807	0.100	-19.3	20.0
2-Methylnaphthalene	Ave	0.7678	0.7008		0.0913	0.100	-8.7	20.0
1-Methylnaphthalene	Ave	0.7200	0.6483		0.0900	0.100	-10.0	20.0
Dimethylphthalate	Ave	1.176	1.118		0.951	1.00	-4.9	20.0
Acenaphthylene	Ave	1.694	1.636		0.0966	0.100	-3.4	20.0
Acenaphthene	Ave	1.094	1.032		0.0944	0.100	-5.6	20.0
Dibenzofuran	Ave	1.680	1.641		0.0977	0.100	-2.3	20.0
Diethylphthalate	Ave	1.001	1.071		1.07	1.00	7.0	20.0
Fluorene	Ave	1.404	1.348		0.0961	0.100	-3.9	20.0
N-Nitrosodiphenylamine	Ave	0.4049	0.4484		0.111	0.100	10.7	20.0
Hexachlorobenzene	Ave	0.2482	0.2129		0.0858	0.100	-14.2	20.0
Phenanthrene	Ave	1.063	1.016		0.0955	0.100	-4.5	20.0
Anthracene	Ave	0.9818	0.999		0.102	0.100	1.7	20.0
Di-n-butyl phthalate	Ave	0.8155	0.8904		1.09	1.00	9.2	20.0
Fluoranthene	Ave	1.396	1.318		0.0945	0.100	-5.5	20.0
Pyrene	Ave	1.238	1.161		0.0938	0.100	-6.2	20.0
Butylbenzylphthalate	Ave	0.3344	0.3684		1.10	1.00	10.2	20.0
Benzo[a]anthracene	Ave	1.297	1.269		0.0978	0.100	-2.2	20.0
Chrysene	Ave	1.367	1.276		0.0933	0.100	-6.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5013	0.5490		1.10	1.00	9.5	20.0
Di-n-octyl phthalate	Ave	0.7332	0.8224		1.12	1.00	12.2	20.0
Benzo[b]fluoranthene	Ave	1.164	1.151		0.0989	0.100	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.262	1.232		0.0976	0.100	-2.4	20.0
Benzo[e]pyrene	Ave	1.167	1.118		0.0958	0.100	-4.2	20.0
Benzo[a]pyrene	Ave	1.124	1.094		0.0973	0.100	-2.7	20.0
Perylene	Ave	1.207	1.156		0.0958	0.100	-4.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.145		0.108	0.100	8.4	20.0
Dibenz(a,h)anthracene	Ave	1.187	1.321		0.111	0.100	11.3	20.0
Benzo[g,h,i]perylene	Ave	1.253	1.265		0.101	0.100	0.9	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.6500	0.5758		0.0886	0.100	-11.4	20.0
Fluoranthene-d10 (Surr)	Ave	1.170	1.192		0.102	0.100	1.9	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9559	0.9927		0.104	0.100	3.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0011.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Jul-2021 21:45:55 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033409-002, 4
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 22:19:45 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 22:17:51

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.891	2.891	0.000	82	5083	0.1000	0.1301	M
	2 N-Nitrosodimethylamine	74	3.344	3.344	0.000	85	4765	0.1000	0.1259	M
	3 Bis(2-chloroethyl)ether	93	6.317	6.317	0.000	99	7273	0.1000	0.0991	
*	4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	97	15073	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.585	8.585	0.000	91	53033	0.2500	0.2500	
	6 Naphthalene	128	8.605	8.605	0.000	93	20282	0.1000	0.0933	
	7 Quinoline	129	9.203	9.203	0.000	100	9747	0.1000	0.0807	
	8 2-Methylnaphthalene	142	9.715	9.715	0.000	98	14866	0.1000	0.0913	
$	9 1-Methylnaphthalene-d10	152	9.813	9.813	0.000	100	12215	0.1000	0.0886	
	10 1-Methylnaphthalene	142	9.862	9.862	0.000	99	13752	0.1000	0.0900	
	11 Dimethyl phthalate	163	11.011	11.011	0.000	96	148283	1.00	0.9512	
	12 Acenaphthylene	152	11.146	11.146	0.000	98	21691	0.1000	0.0966	
*	13 Acenaphthene-d10	164	11.366	11.366	0.000	97	33150	0.2500	0.2500	
	14 Acenaphthene	154	11.415	11.415	0.000	92	13685	0.1000	0.0944	
	15 Dibenzofuran	168	11.673	11.673	0.000	99	21765	0.1000	0.0977	
	16 Diethyl phthalate	149	12.024	12.024	0.000	99	142035	1.00	1.07	
	17 Fluorene	166	12.118	12.118	0.000	97	17881	0.1000	0.0961	
	18 N-Nitrosodiphenylamine	169	12.297	12.297	0.000	99	12428	0.1000	0.1107	
	19 Hexachlorobenzene	284	12.781	12.781	0.000	98	5900	0.1000	0.0858	
*	20 Phenanthrene-d10	188	13.273	13.273	0.000	96	69297	0.2500	0.2500	
	21 Phenanthrene	178	13.304	13.304	0.000	100	28157	0.1000	0.0955	
	22 Anthracene	178	13.375	13.375	0.000	100	27684	0.1000	0.1017	
	23 Di-n-butyl phthalate	149	14.077	14.077	0.000	98	246811	1.00	1.09	
$	24 Fluoranthene-d10 (Surr)	212	14.918	14.918	0.000	96	33048	0.1000	0.1019	
	25 Fluoranthene	202	14.943	14.943	0.000	98	36545	0.1000	0.0945	
	26 Pyrene	202	15.288	15.288	0.000	97	37531	0.1000	0.0938	
	27 Butyl benzyl phthalate	149	16.404	16.404	0.000	98	119046	1.00	1.10	
	28 Benzo[a]anthracene	228	17.286	17.286	0.000	100	40998	0.1000	0.0978	
*	29 Chrysene-d12	240	17.309	17.309	0.000	60	80786	0.2500	0.2500	
	30 Chrysene	228	17.355	17.355	0.000	100	41221	0.1000	0.0933	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.440	17.440	0.000	98	177392	1.00	1.10	
32 Di-n-octyl phthalate	149	18.606	18.606	0.000	100	316588	1.00	1.12	
33 Benzo[b]fluoranthene	252	19.150	19.150	0.000	100	44323	0.1000	0.0989	
34 Benzo[k]fluoranthene	252	19.196	19.196	0.000	100	47435	0.1000	0.0976	
35 Benzo[e]pyrene	252	19.595	19.595	0.000	100	43041	0.1000	0.0958	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	97	38217	0.1000	0.1038	
37 Benzo[a]pyrene	252	19.679	19.679	0.000	100	42127	0.1000	0.0973	
* 38 Perylene-d12	264	19.771	19.771	0.000	97	96244	0.2500	0.2500	
39 Perylene	252	19.810	19.810	0.000	100	44519	0.1000	0.0958	
40 Indeno[1,2,3-cd]pyrene	276	21.420	21.420	0.000	98	44076	0.1000	0.1084	M
41 Dibenz(a,h)anthracene	278	21.456	21.456	0.000	92	50848	0.1000	0.1113	
42 Benzo[g,h,i]perylene	276	21.851	21.851	0.000	94	48692	0.1000	0.1009	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

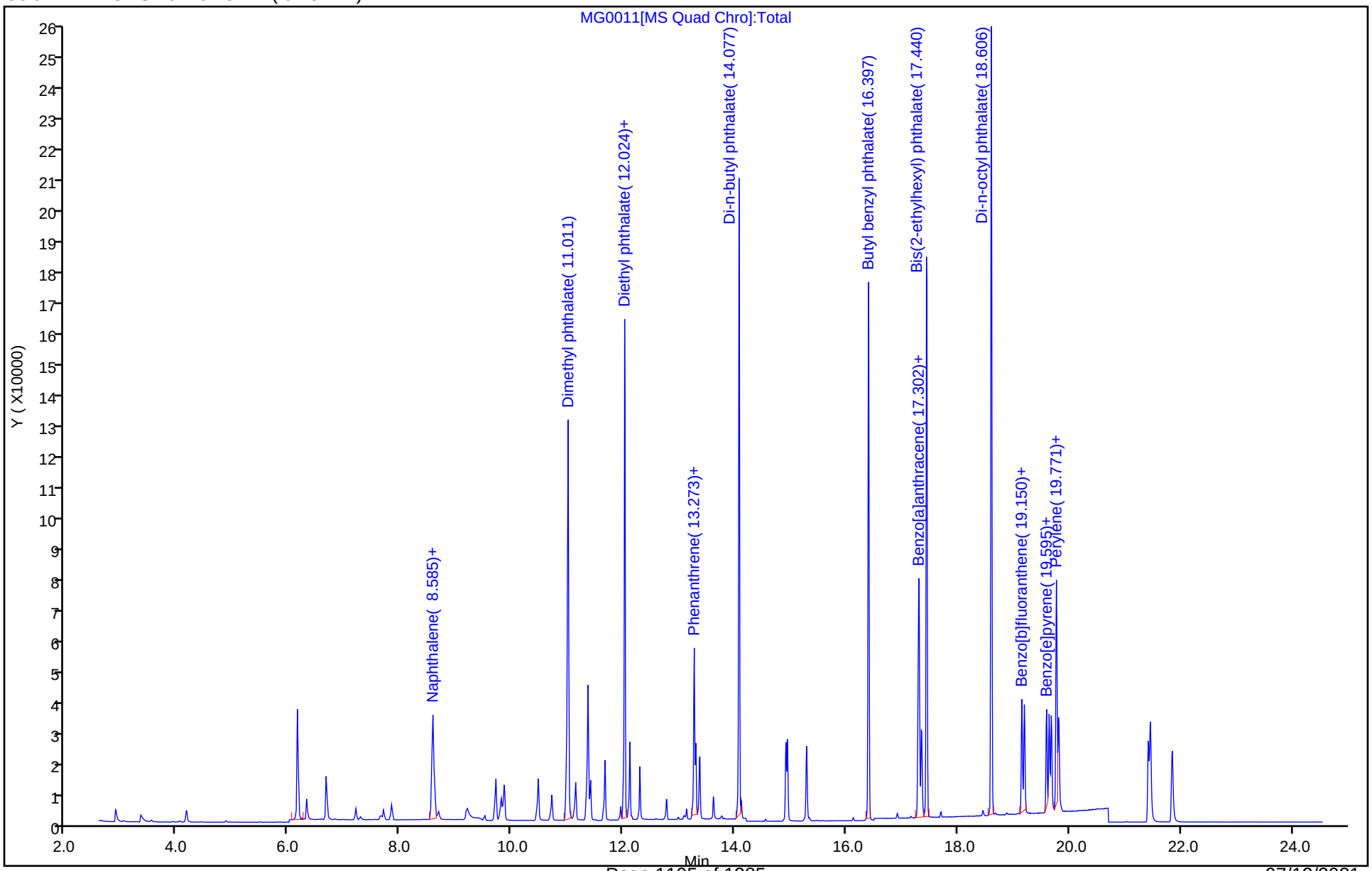
Report Date: 01-Jul-2021 22:19:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0011.D

Injection Date:	01-Jul-2021 21:45:55	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

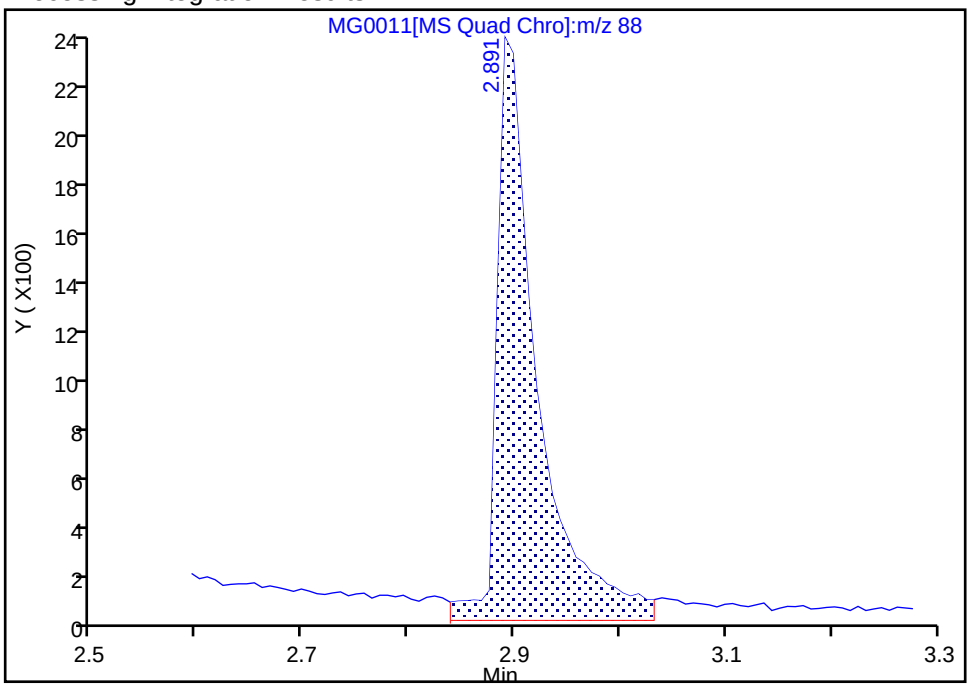
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Injection Date:	01-Jul-2021 21:45:55	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

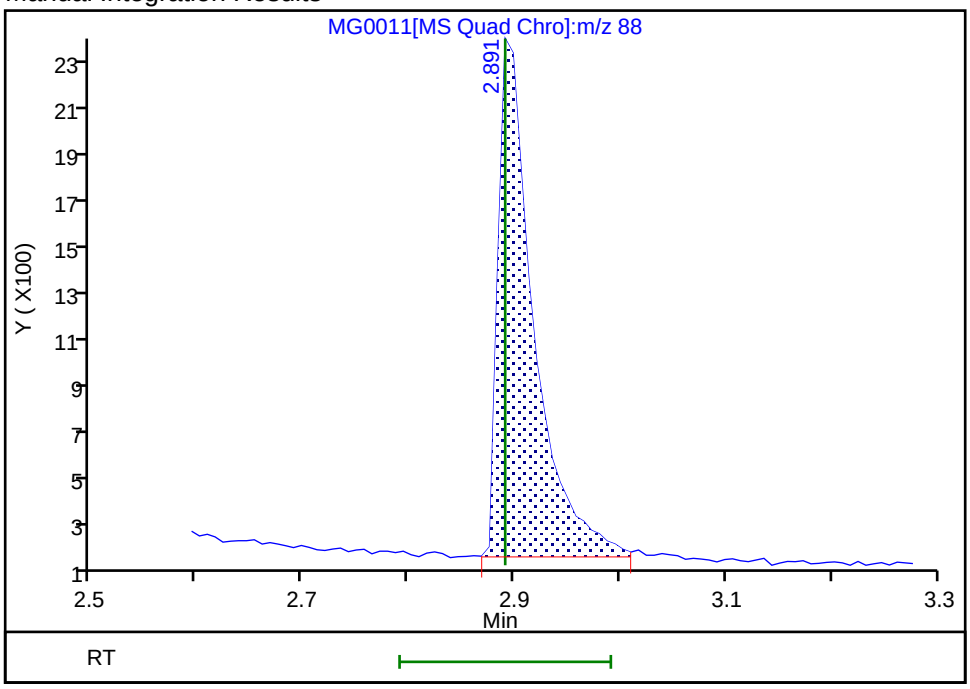
Processing Integration Results

RT: 2.89
Area: 5954
Amount: 0.152447
Amount Units: ug/ml



Manual Integration Results

RT: 2.89
Area: 5083
Amount: 0.130146
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 22:17:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

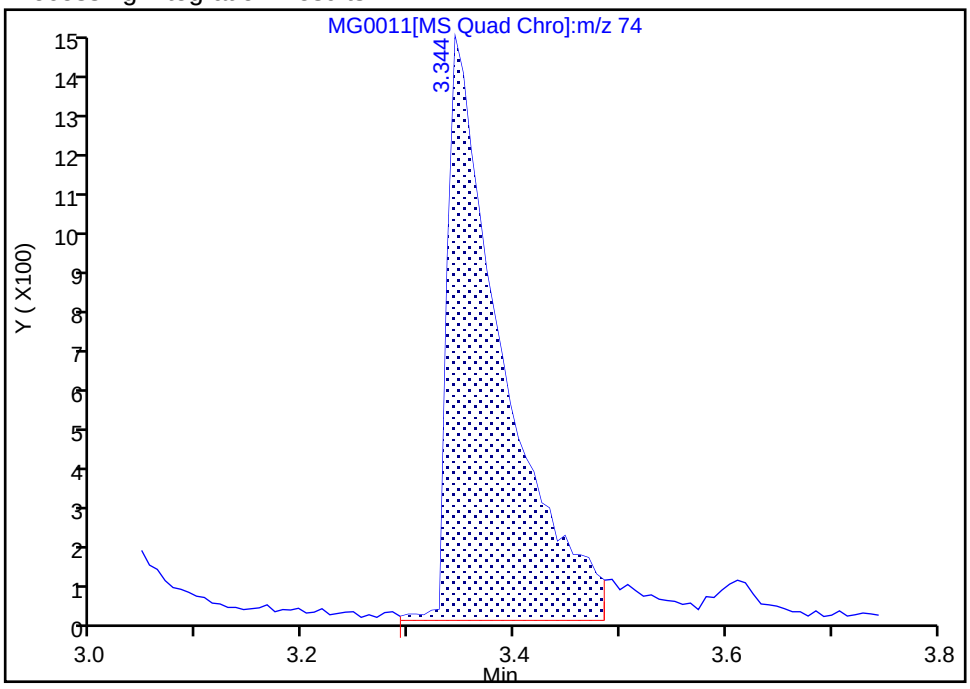
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Injection Date:	01-Jul-2021 21:45:55	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

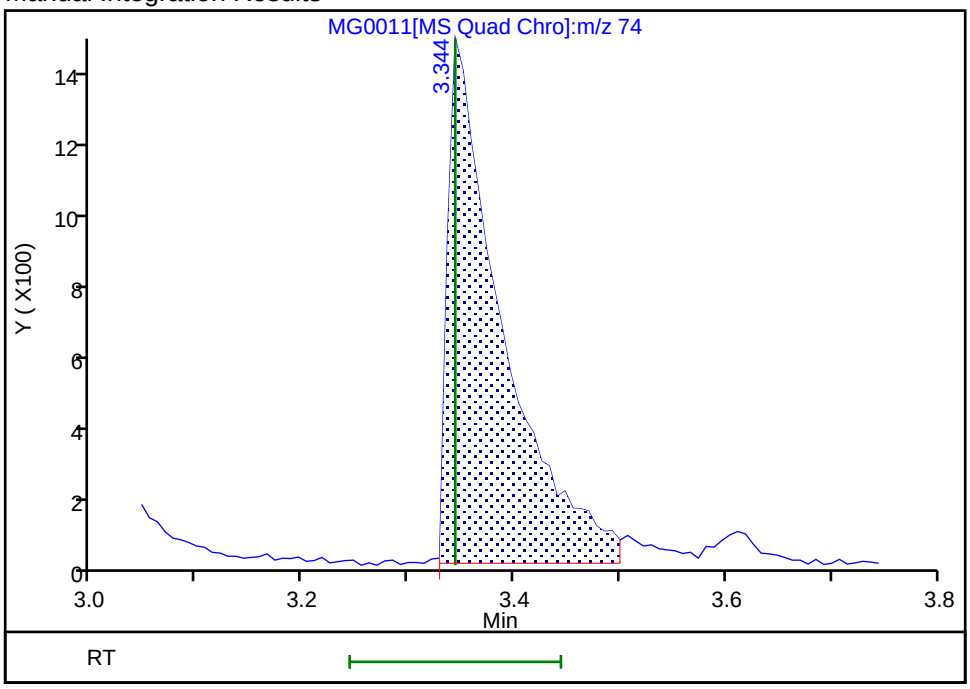
Processing Integration Results

RT: 3.34
Area: 4845
Amount: 0.127972
Amount Units: ug/ml



Manual Integration Results

RT: 3.34
Area: 4765
Amount: 0.125859
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 22:17:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

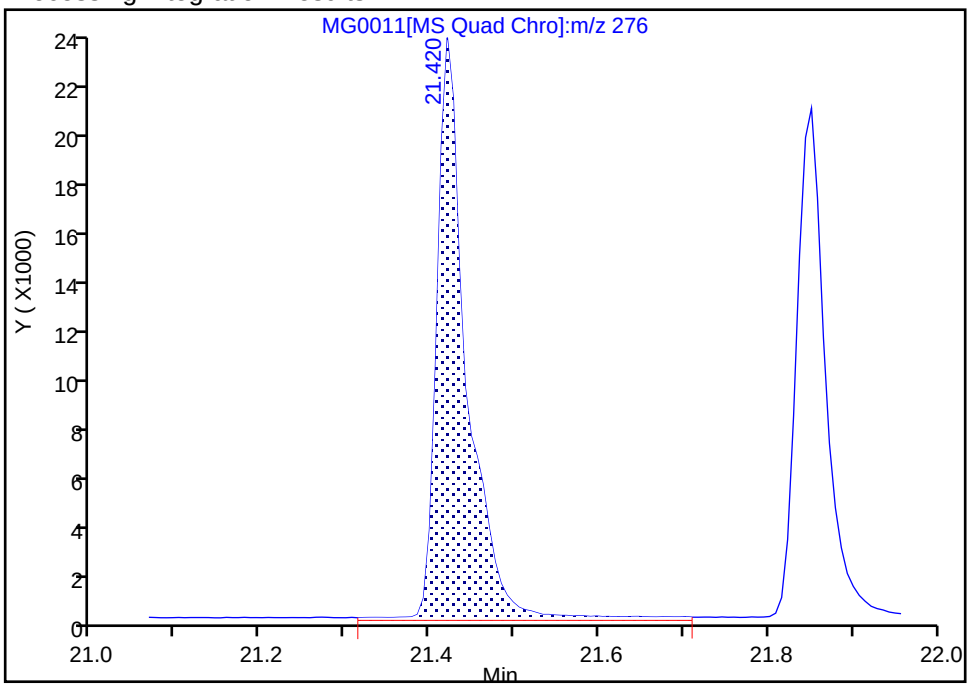
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Injection Date:	01-Jul-2021 21:45:55	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

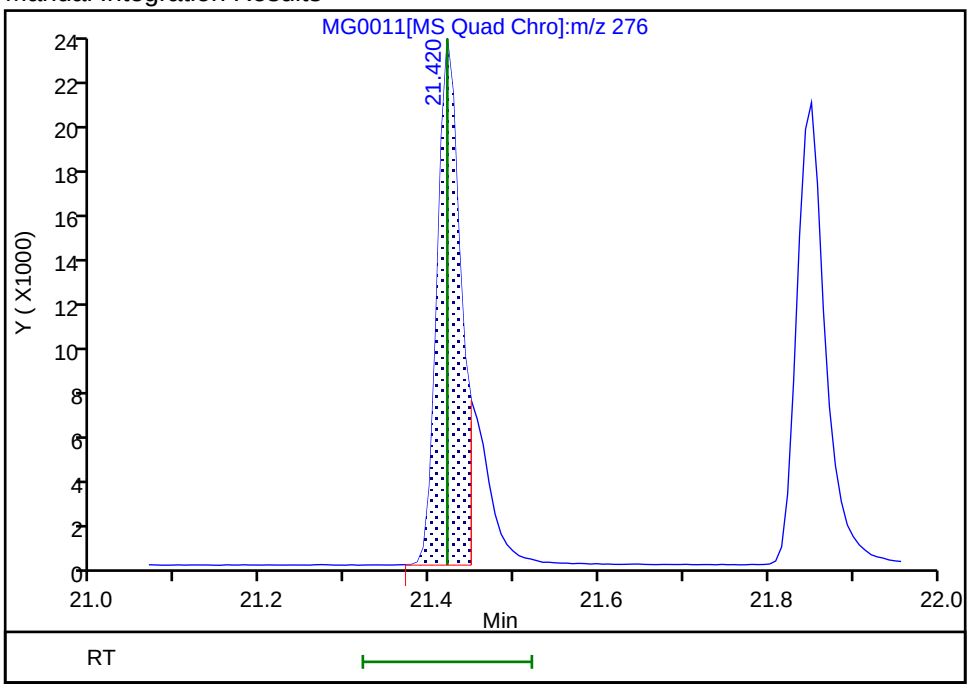
Processing Integration Results

RT: 21.42
Area: 57926
Amount: 0.142489
Amount Units: ug/ml



Manual Integration Results

RT: 21.42
Area: 44076
Amount: 0.108420
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 22:17:42

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144775/2 Calibration Date: 07/02/2021 11:05

Instrument ID: HP21585 Calib Start Date: 06/03/2021 09:18

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/03/2021 11:51

Lab File ID: MG0101.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6478	0.8797		0.136	0.100	35.8*	20.0
N-Nitrosodimethylamine	Ave	0.6279	0.8397		0.134	0.100	33.7*	20.0
Bis(2-chloroethyl)ether	Ave	0.3461	0.3567		0.103	0.100	3.1	20.0
Naphthalene	Ave	1.024	0.9296		0.0907	0.100	-9.3	20.0
Quinoline	Ave	0.5696	0.5229		0.0918	0.100	-8.2	20.0
2-Methylnaphthalene	Ave	0.7678	0.6759		0.0880	0.100	-12.0	20.0
1-Methylnaphthalene	Ave	0.7200	0.6387		0.0887	0.100	-11.3	20.0
Dimethylphthalate	Ave	1.176	1.170		0.996	1.00	-0.4	20.0
Acenaphthylene	Ave	1.694	1.654		0.0977	0.100	-2.3	20.0
Acenaphthene	Ave	1.094	1.040		0.0951	0.100	-4.9	20.0
Dibenzofuran	Ave	1.680	1.657		0.0987	0.100	-1.3	20.0
Diethylphthalate	Ave	1.001	1.142		1.14	1.00	14.1	20.0
Fluorene	Ave	1.404	1.390		0.0990	0.100	-1.0	20.0
N-Nitrosodiphenylamine	Ave	0.4049	0.4534		0.112	0.100	12.0	20.0
Hexachlorobenzene	Ave	0.2482	0.2177		0.0877	0.100	-12.3	20.0
Phenanthrene	Ave	1.063	1.026		0.0965	0.100	-3.5	20.0
Anthracene	Ave	0.9818	0.999		0.102	0.100	1.7	20.0
Di-n-butyl phthalate	Ave	0.8155	0.9108		1.12	1.00	11.7	20.0
Fluoranthene	Ave	1.396	1.336		0.0957	0.100	-4.3	20.0
Pyrene	Ave	1.238	1.188		0.0959	0.100	-4.1	20.0
Butylbenzylphthalate	Ave	0.3344	0.3646		1.09	1.00	9.0	20.0
Benzo[a]anthracene	Ave	1.297	1.268		0.0978	0.100	-2.2	20.0
Chrysene	Ave	1.367	1.291		0.0944	0.100	-5.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5013	0.5401		1.08	1.00	7.7	20.0
Di-n-octyl phthalate	Ave	0.7332	0.8089		1.10	1.00	10.3	20.0
Benzo[b]fluoranthene	Ave	1.164	1.138		0.0978	0.100	-2.2	20.0
Benzo[k]fluoranthene	Ave	1.262	1.239		0.0981	0.100	-1.9	20.0
Benzo[e]pyrene	Ave	1.167	1.119		0.0959	0.100	-4.1	20.0
Benzo[a]pyrene	Ave	1.124	1.110		0.0987	0.100	-1.3	20.0
Perylene	Ave	1.207	1.203		0.0996	0.100	-0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.210		0.115	0.100	14.6	20.0
Dibenz(a,h)anthracene	Ave	1.187	1.351		0.114	0.100	13.9	20.0
Benzo[g,h,i]perylene	Ave	1.253	1.291		0.103	0.100	3.0	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.6500	0.5714		0.0879	0.100	-12.1	20.0
Fluoranthene-d10 (Surr)	Ave	1.170	1.186		0.101	0.100	1.4	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9559	0.9871		0.103	0.100	3.3	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0101.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Jul-2021 11:05:45 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033483-002, 4
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Jul-2021 11:44:54 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: transuea Date: 02-Jul-2021 11:40:41

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.899	2.899	0.000	81	4292	0.1000	0.1358	M
	2 N-Nitrosodimethylamine	74	3.351	3.351	0.000	84	4097	0.1000	0.1337	
	3 Bis(2-chloroethyl)ether	93	6.318	6.318	0.000	100	5903	0.1000	0.1031	
*	4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	97	12198	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.585	8.585	0.000	93	41369	0.2500	0.2500	
	6 Naphthalene	128	8.605	8.605	0.000	92	15383	0.1000	0.0907	
	7 Quinoline	129	9.203	9.203	0.000	98	8652	0.1000	0.0918	
	8 2-Methylnaphthalene	142	9.716	9.716	0.000	99	11185	0.1000	0.0880	
$	9 1-Methylnaphthalene-d10	152	9.813	9.813	0.000	100	9456	0.1000	0.0879	
	10 1-Methylnaphthalene	142	9.862	9.862	0.000	98	10569	0.1000	0.0887	
	11 Dimethyl phthalate	163	11.011	11.011	0.000	95	121533	1.00	1.00	
	12 Acenaphthylene	152	11.146	11.146	0.000	99	17175	0.1000	0.0977	
*	13 Acenaphthene-d10	164	11.366	11.366	0.000	96	25958	0.2500	0.2500	
	14 Acenaphthene	154	11.415	11.415	0.000	93	10800	0.1000	0.0951	
	15 Dibenzofuran	168	11.673	11.673	0.000	98	17204	0.1000	0.0987	
	16 Diethyl phthalate	149	12.024	12.024	0.000	99	118582	1.00	1.14	
	17 Fluorene	166	12.118	12.118	0.000	97	14431	0.1000	0.0990	
	18 N-Nitrosodiphenylamine	169	12.298	12.298	0.000	99	9932	0.1000	0.1120	
	19 Hexachlorobenzene	284	12.782	12.782	0.000	99	4770	0.1000	0.0877	
*	20 Phenanthrene-d10	188	13.273	13.273	0.000	95	54770	0.2500	0.2500	
	21 Phenanthrene	178	13.305	13.305	0.000	100	22478	0.1000	0.0965	
	22 Anthracene	178	13.375	13.375	0.000	100	21885	0.1000	0.1017	
	23 Di-n-butyl phthalate	149	14.077	14.077	0.000	98	199543	1.00	1.12	
$	24 Fluoranthene-d10 (Surr)	212	14.918	14.918	0.000	96	25984	0.1000	0.1014	
	25 Fluoranthene	202	14.950	14.950	0.000	98	29262	0.1000	0.0957	
	26 Pyrene	202	15.288	15.288	0.000	97	29636	0.1000	0.0959	
	27 Butyl benzyl phthalate	149	16.404	16.404	0.000	98	90975	1.00	1.09	
	28 Benzo[a]anthracene	228	17.294	17.294	0.000	100	31629	0.1000	0.0978	
*	29 Chrysene-d12	240	17.310	17.310	0.000	61	62379	0.2500	0.2500	
	30 Chrysene	228	17.356	17.356	0.000	100	32204	0.1000	0.0944	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.440	17.440	0.000	99	134763	1.00	1.08	
32 Di-n-octyl phthalate	149	18.606	18.606	0.000	100	238319	1.00	1.10	
33 Benzo[b]fluoranthene	252	19.150	19.150	0.000	100	33534	0.1000	0.0978	
34 Benzo[k]fluoranthene	252	19.196	19.196	0.000	100	36499	0.1000	0.0981	
35 Benzo[e]pyrene	252	19.595	19.595	0.000	100	32983	0.1000	0.0959	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	97	29083	0.1000	0.1033	
37 Benzo[a]pyrene	252	19.680	19.680	0.000	100	32703	0.1000	0.0987	
* 38 Perylene-d12	264	19.772	19.772	0.000	97	73658	0.2500	0.2500	
39 Perylene	252	19.818	19.818	0.000	100	35444	0.1000	0.0996	
40 Indeno[1,2,3-cd]pyrene	276	21.428	21.428	0.000	97	35648	0.1000	0.1146	M
41 Dibenz(a,h)anthracene	278	21.463	21.463	0.000	94	39815	0.1000	0.1139	
42 Benzo[g,h,i]perylene	276	21.852	21.852	0.000	94	38028	0.1000	0.1030	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

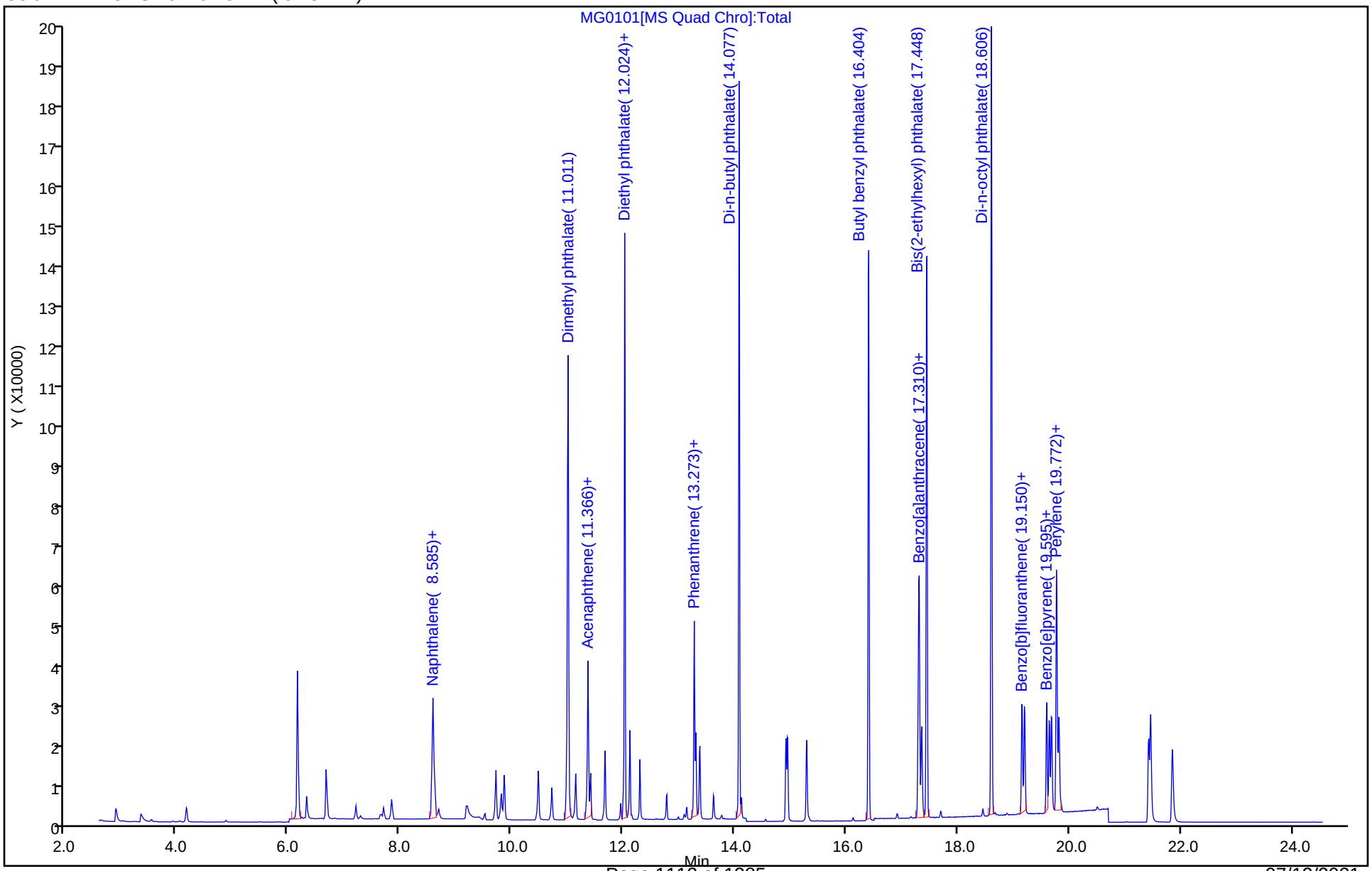
Report Date: 02-Jul-2021 11:44:54 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0101.D

Injection Date:	02-Jul-2021 11:05:45	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

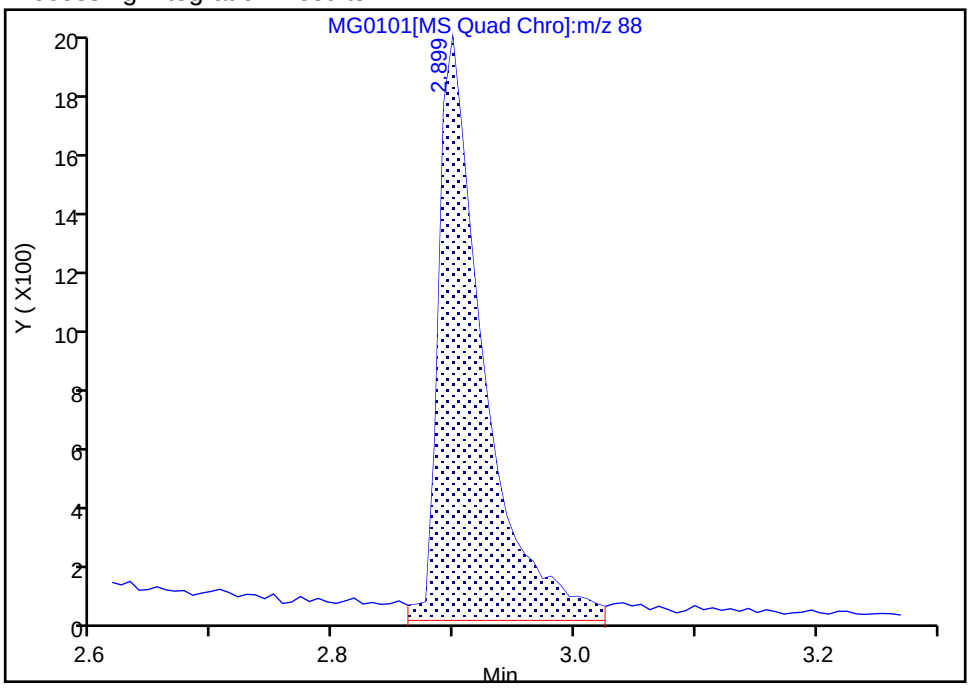
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Injection Date:	02-Jul-2021 11:05:45	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

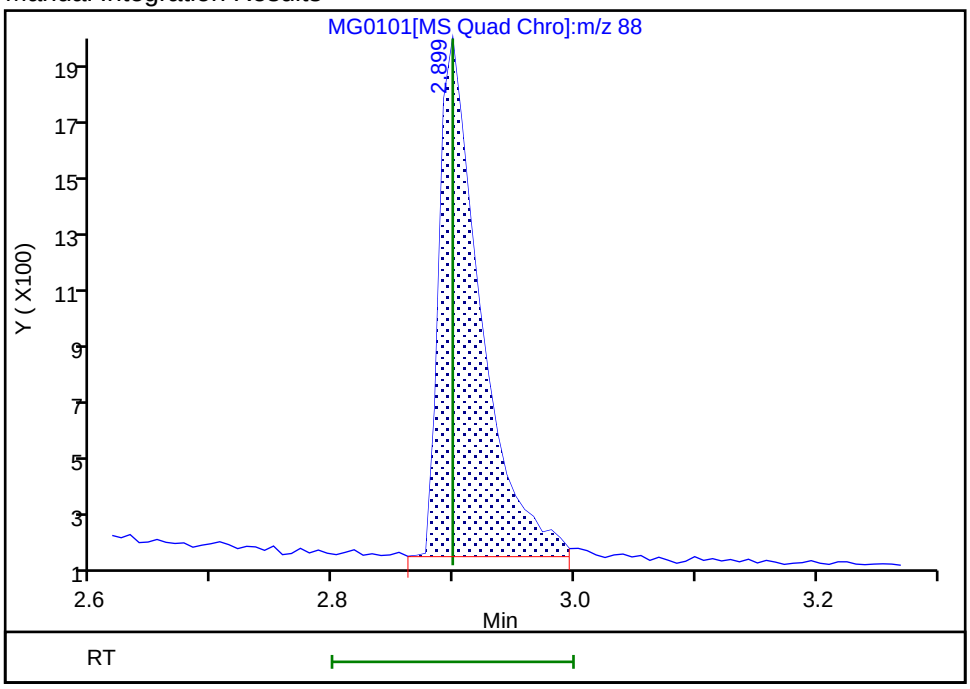
Processing Integration Results

RT: 2.90
Area: 4783
Amount: 0.151329
Amount Units: ug/ml



Manual Integration Results

RT: 2.90
Area: 4292
Amount: 0.135794
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 11:39:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

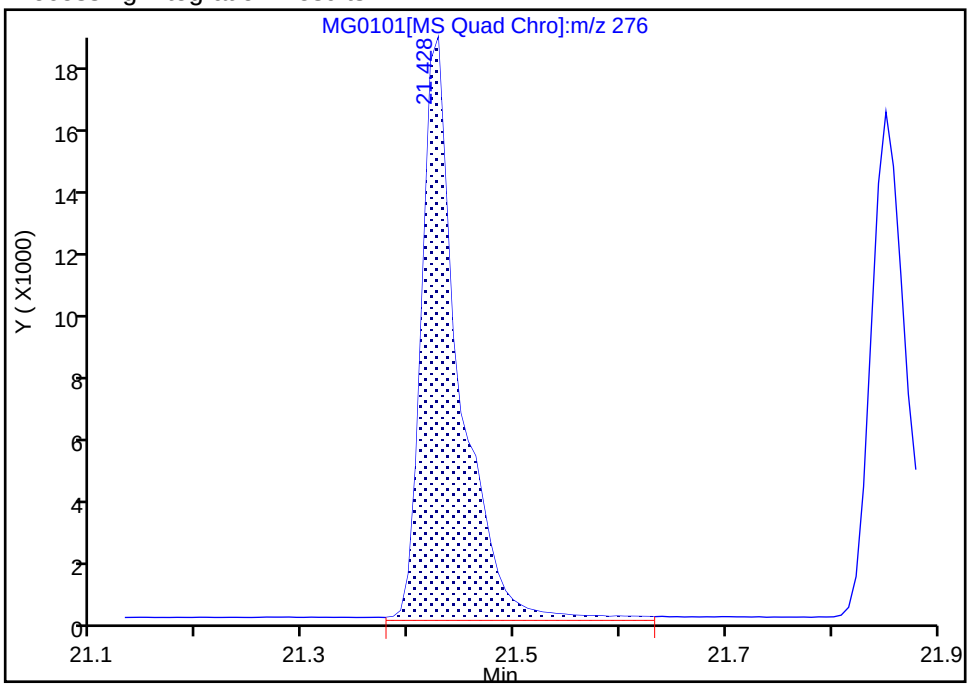
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Injection Date:	02-Jul-2021 11:05:45	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

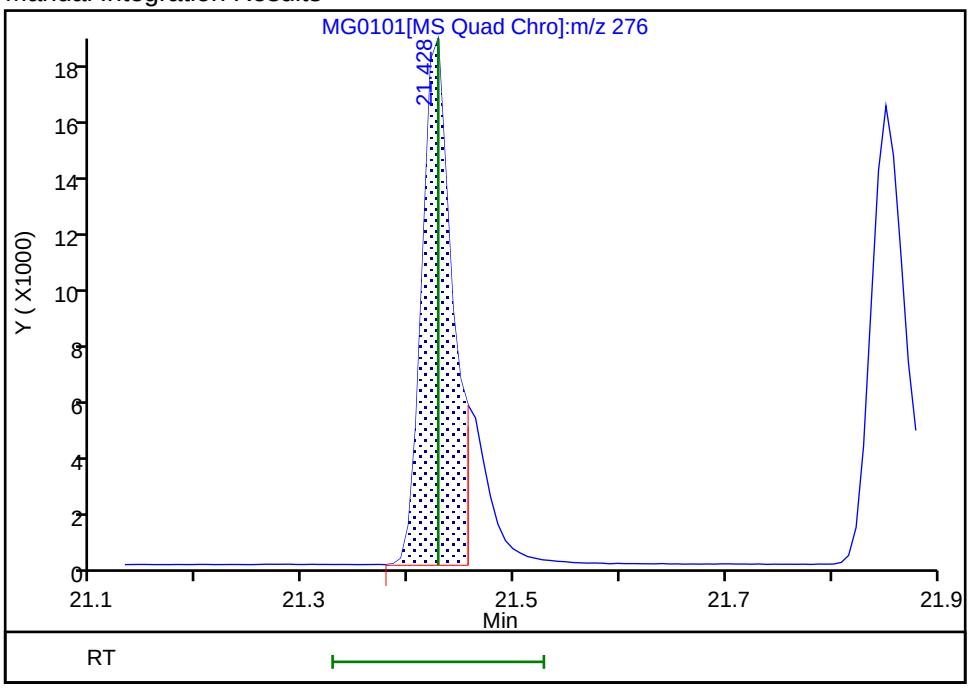
Processing Integration Results

RT: 21.43
Area: 44689
Amount: 0.143636
Amount Units: ug/ml



Manual Integration Results

RT: 21.43
Area: 35648
Amount: 0.114577
Amount Units: ug/ml



Reviewer: transuea, 02-Jul-2021 11:39:56

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145121/2 Calibration Date: 07/06/2021 04:42

Instrument ID: HP21585 Calib Start Date: 06/03/2021 09:18

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/03/2021 11:51

Lab File ID: MG0201.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6478	0.9621		0.149	0.100	48.5*	20.0
N-Nitrosodimethylamine	Ave	0.6279	0.8733		0.139	0.100	39.1*	20.0
Bis(2-chloroethyl)ether	Ave	0.3461	0.3539		0.102	0.100	2.3	20.0
Naphthalene	Ave	1.024	0.9682		0.0945	0.100	-5.5	20.0
Quinoline	Ave	0.5696	0.4447		0.0781	0.100	-21.9*	20.0
2-Methylnaphthalene	Ave	0.7678	0.7076		0.0922	0.100	-7.8	20.0
1-Methylnaphthalene	Ave	0.7200	0.6837		0.0950	0.100	-5.0	20.0
Dimethylphthalate	Ave	1.176	1.151		0.979	1.00	-2.1	20.0
Acenaphthylene	Ave	1.694	1.634		0.0965	0.100	-3.5	20.0
Acenaphthene	Ave	1.094	1.112		0.102	0.100	1.6	20.0
Dibenzofuran	Ave	1.680	1.619		0.0964	0.100	-3.6	20.0
Diethylphthalate	Ave	1.001	1.108		1.11	1.00	10.7	20.0
Fluorene	Ave	1.404	1.341		0.0955	0.100	-4.5	20.0
N-Nitrosodiphenylamine	Ave	0.4049	0.4628		0.114	0.100	14.3	20.0
Hexachlorobenzene	Ave	0.2482	0.2095		0.0844	0.100	-15.6	20.0
Phenanthrene	Ave	1.063	0.9607		0.0904	0.100	-9.6	20.0
Anthracene	Ave	0.9818	1.046		0.107	0.100	6.5	20.0
Di-n-butyl phthalate	Ave	0.8155	0.8785		1.08	1.00	7.7	20.0
Fluoranthene	Ave	1.396	1.383		0.0991	0.100	-0.9	20.0
Pyrene	Ave	1.238	1.116		0.0902	0.100	-9.8	20.0
Butylbenzylphthalate	Ave	0.3344	0.3432		1.03	1.00	2.6	20.0
Benzo[a]anthracene	Ave	1.297	1.231		0.0950	0.100	-5.0	20.0
Chrysene	Ave	1.367	1.322		0.0967	0.100	-3.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5013	0.5182		1.03	1.00	3.4	20.0
Di-n-octyl phthalate	Ave	0.7332	0.7806		1.06	1.00	6.5	20.0
Benzo[b]fluoranthene	Ave	1.164	1.135		0.0975	0.100	-2.5	20.0
Benzo[k]fluoranthene	Ave	1.262	1.281		0.101	0.100	1.5	20.0
Benzo[e]pyrene	Ave	1.167	1.089		0.0933	0.100	-6.7	20.0
Benzo[a]pyrene	Ave	1.124	1.111		0.0988	0.100	-1.2	20.0
Perylene	Ave	1.207	1.170		0.0969	0.100	-3.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	0.9335		0.0884	0.100	-11.6	20.0
Dibenz(a,h)anthracene	Ave	1.187	1.134		0.0955	0.100	-4.5	20.0
Benzo[g,h,i]perylene	Ave	1.253	1.059		0.0845	0.100	-15.5	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.6500	0.5938		0.0914	0.100	-8.6	20.0
Fluoranthene-d10 (Surr)	Ave	1.170	1.248		0.107	0.100	6.7	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9559	0.9863		0.103	0.100	3.2	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0201.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2021 04:42:38 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033555-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 05:33:21 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: gamblerj Date: 06-Jul-2021 05:33:16

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.899	2.899	0.000	81	3208	0.1000	0.1485	
	2 N-Nitrosodimethylamine	74	3.344	3.344	0.000	92	2912	0.1000	0.1391	
	3 Bis(2-chloroethyl)ether	93	6.318	6.318	0.000	98	3836	0.1000	0.1023	
*	4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	95	8336	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.585	8.585	0.000	92	27096	0.2500	0.2500	
	6 Naphthalene	128	8.605	8.605	0.000	93	10494	0.1000	0.0945	
	7 Quinoline	129	9.182	9.182	0.000	97	4820	0.1000	0.0781	
	8 2-Methylnaphthalene	142	9.715	9.715	0.000	96	7669	0.1000	0.0922	
$	9 1-Methylnaphthalene-d10	152	9.801	9.801	0.000	100	6436	0.1000	0.0914	
	10 1-Methylnaphthalene	142	9.862	9.862	0.000	99	7410	0.1000	0.0950	
	11 Dimethyl phthalate	163	11.011	11.011	0.000	97	81163	1.00	0.9789	
	12 Acenaphthylene	152	11.146	11.146	0.000	99	11521	0.1000	0.0965	
*	13 Acenaphthene-d10	164	11.366	11.366	0.000	95	17632	0.2500	0.2500	
	14 Acenaphthene	154	11.415	11.415	0.000	93	7841	0.1000	0.1016	
	15 Dibenzofuran	168	11.673	11.673	0.000	97	11415	0.1000	0.0964	
	16 Diethyl phthalate	149	12.024	12.024	0.000	100	78151	1.00	1.11	
	17 Fluorene	166	12.118	12.118	0.000	98	9456	0.1000	0.0955	
	18 N-Nitrosodiphenylamine	169	12.298	12.298	0.000	98	7043	0.1000	0.1143	
	19 Hexachlorobenzene	284	12.774	12.774	0.000	99	3189	0.1000	0.0844	
*	20 Phenanthrene-d10	188	13.273	13.273	0.000	96	38049	0.2500	0.2500	
	21 Phenanthrene	178	13.297	13.297	0.000	100	14621	0.1000	0.0904	
	22 Anthracene	178	13.367	13.367	0.000	100	15917	0.1000	0.1065	
	23 Di-n-butyl phthalate	149	14.077	14.077	0.000	98	133711	1.00	1.08	
$	24 Fluoranthene-d10 (Surr)	212	14.918	14.918	0.000	96	18989	0.1000	0.1067	
	25 Fluoranthene	202	14.943	14.943	0.000	98	21048	0.1000	0.0991	
	26 Pyrene	202	15.288	15.288	0.000	96	21686	0.1000	0.0902	
	27 Butyl benzyl phthalate	149	16.398	16.398	0.000	96	66684	1.00	1.03	
	28 Benzo[a]anthracene	228	17.287	17.287	0.000	100	23929	0.1000	0.0950	
*	29 Chrysene-d12	240	17.302	17.302	0.000	66	48578	0.2500	0.2500	
	30 Chrysene	228	17.348	17.348	0.000	100	25680	0.1000	0.0967	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.440	17.440	0.000	99	100684	1.00	1.03	
32 Di-n-octyl phthalate	149	18.598	18.598	0.000	100	174991	1.00	1.06	
33 Benzo[b]fluoranthene	252	19.150	19.150	0.000	100	25441	0.1000	0.0975	
34 Benzo[k]fluoranthene	252	19.196	19.196	0.000	100	28717	0.1000	0.1015	
35 Benzo[e]pyrene	252	19.595	19.595	0.000	100	24412	0.1000	0.0933	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	98	22112	0.1000	0.1032	
37 Benzo[a]pyrene	252	19.679	19.679	0.000	100	24916	0.1000	0.0988	
* 38 Perylene-d12	264	19.771	19.771	0.000	97	56047	0.2500	0.2500	
39 Perylene	252	19.810	19.810	0.000	100	26237	0.1000	0.0969	
40 Indeno[1,2,3-cd]pyrene	276	21.435	21.435	0.000	97	20929	0.1000	0.0884	M
41 Dibenz(a,h)anthracene	278	21.470	21.470	0.000	87	25412	0.1000	0.0955	
42 Benzo[g,h,i]perylene	276	21.859	21.859	0.000	93	23733	0.1000	0.0845	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00010 Amount Added: 1.00 Units: mL

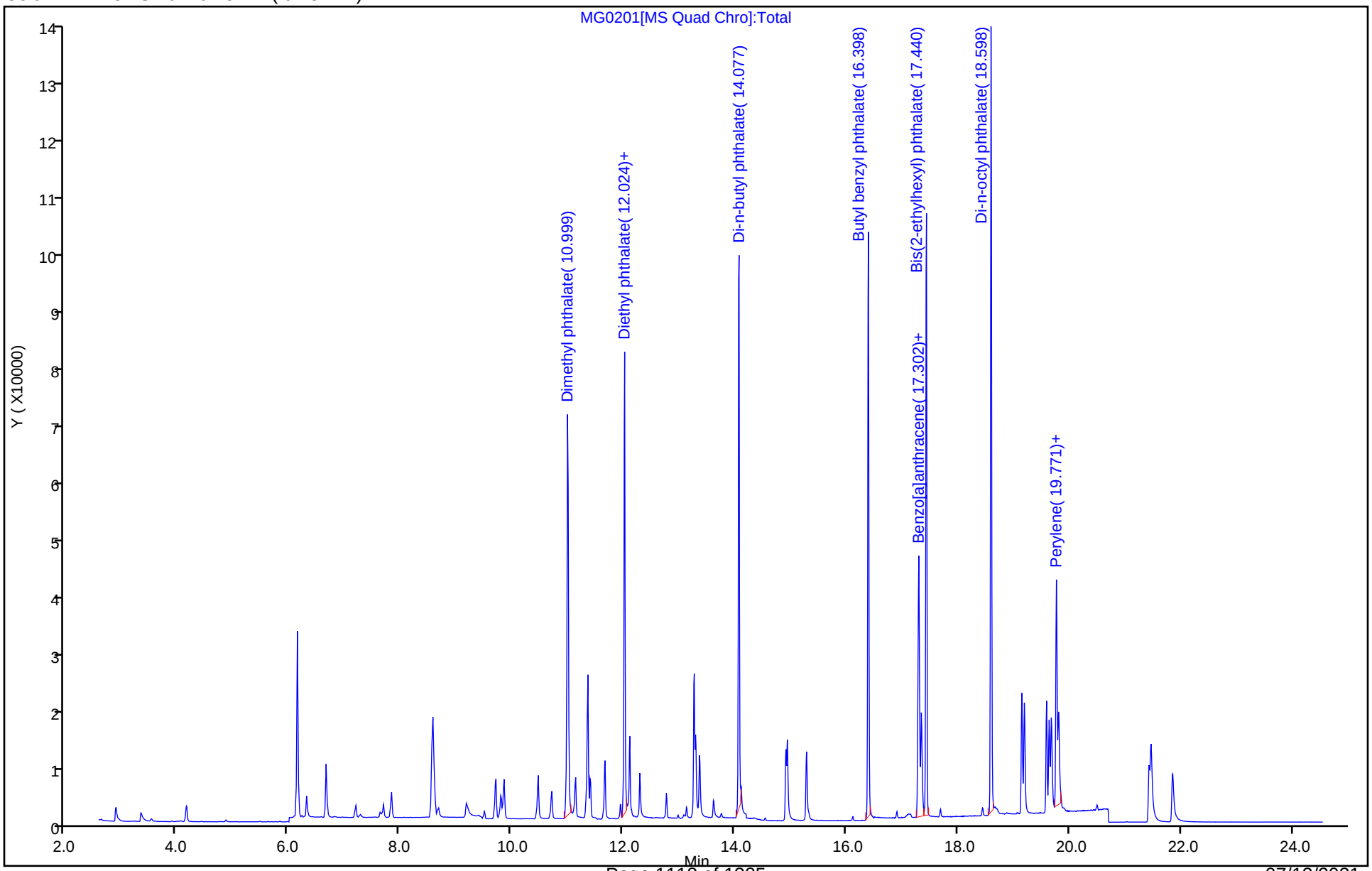
Report Date: 06-Jul-2021 05:33:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0201.D

Injection Date:	06-Jul-2021 04:42:38	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

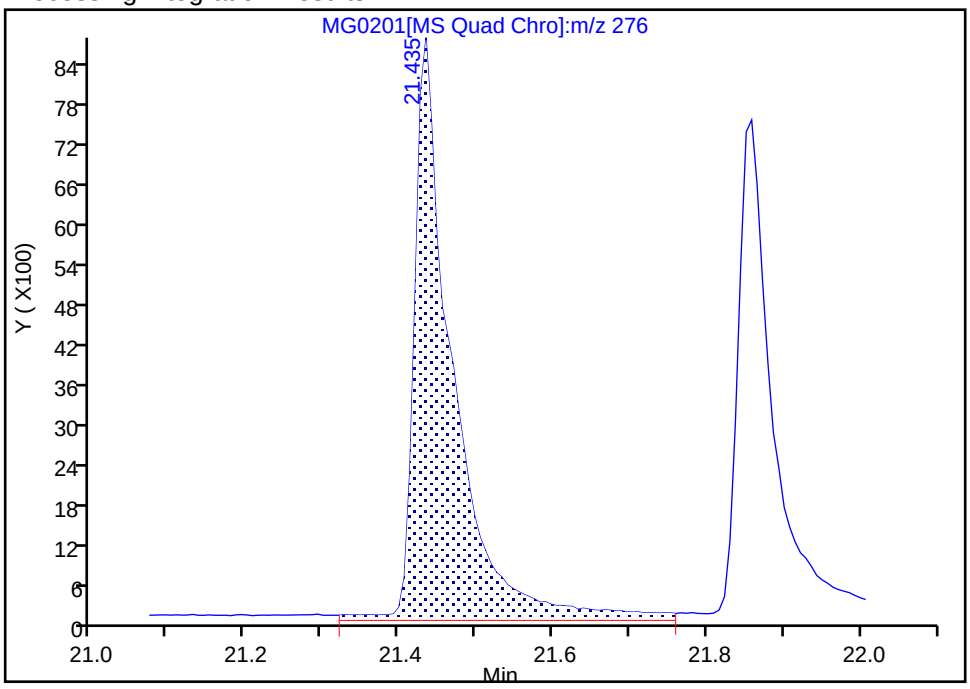
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Injection Date:	06-Jul-2021 04:42:38	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

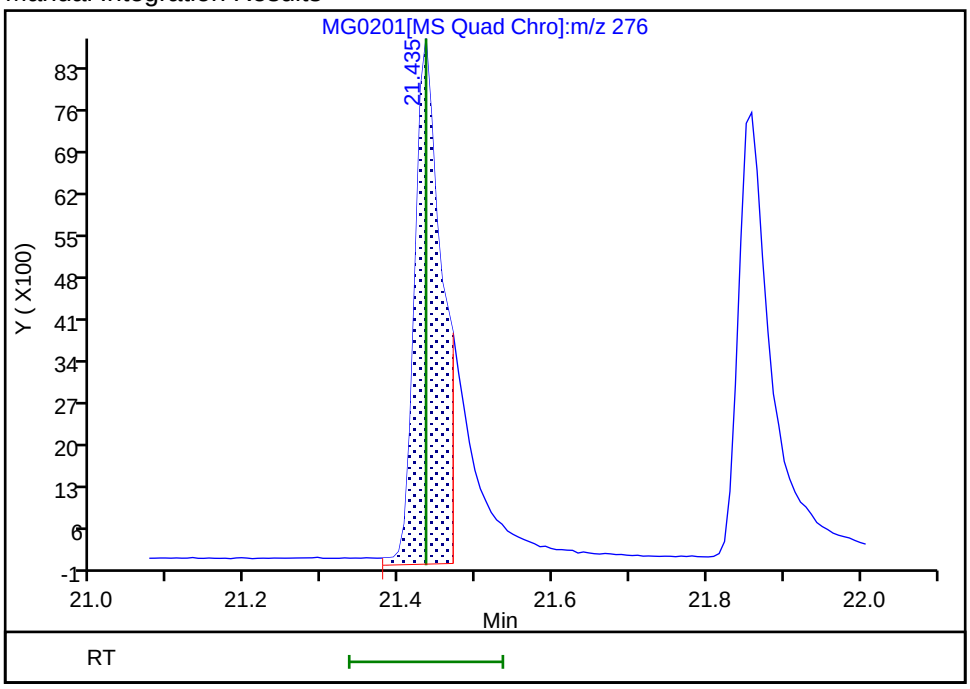
Processing Integration Results

RT: 21.43
Area: 30577
Amount: 0.129159
Amount Units: ug/ml



Manual Integration Results

RT: 21.43
Area: 20929
Amount: 0.088405
Amount Units: ug/ml



Reviewer: gamblerj, 06-Jul-2021 05:17:18

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: ICV 410-140413/9 Calibration Date: 06/22/2021 10:12

Instrument ID: HP23263 Calib Start Date: 06/22/2021 06:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/22/2021 09:12

Lab File ID: NF0908.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4082	0.4593		0.281	0.250	12.5	30.0
N-Nitrosodimethylamine	Ave	0.4096	0.5963		0.364	0.250	45.6*	30.0
Bis(2-chloroethyl)ether	Ave	0.3001	0.3174		0.264	0.250	5.8	30.0
Naphthalene	Ave	1.030	1.034		0.251	0.250	0.3	30.0
2-Methylnaphthalene	Ave	0.7008	0.6931		0.247	0.250	-1.1	30.0
1-Methylnaphthalene	Ave	0.6553	0.6523		0.249	0.250	-0.5	30.0
Dimethylphthalate	Ave	1.200	1.413		0.295	0.250	17.8	30.0
Acenaphthylene	Ave	1.923	1.913		0.249	0.250	-0.5	30.0
Acenaphthene	Ave	1.115	1.157		0.259	0.250	3.8	30.0
Dibenzofuran	Ave	1.875	1.840		0.245	0.250	-1.9	30.0
Diethylphthalate	Ave	1.180	1.391		0.295	0.250	17.9	30.0
Fluorene	Ave	1.433	1.449		0.253	0.250	1.1	30.0
N-Nitrosodiphenylamine	Ave	0.4538	0.6038		0.283	0.213	33.1*	30.0
Hexachlorobenzene	Ave	0.3323	0.3302		0.248	0.250	-0.6	30.0
Phenanthrene	Ave	1.132	1.172		0.259	0.250	3.5	30.0
Anthracene	Ave	0.996	1.077		0.271	0.250	8.2	30.0
Di-n-butyl phthalate	Ave	0.9047	1.074		0.297	0.250	18.7	30.0
Fluoranthene	Ave	1.182	1.268		0.268	0.250	7.3	30.0
Pyrene	Ave	1.261	1.325		0.263	0.250	5.0	30.0
Butylbenzylphthalate	Ave	0.4340	0.4901		0.282	0.250	12.9	30.0
Benzo[a]anthracene	Ave	1.231	1.255		0.255	0.250	2.0	30.0
Chrysene	Ave	1.160	1.267		0.273	0.250	9.3	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.5939	0.7122		0.300	0.250	19.9	30.0
Di-n-octyl phthalate	Ave	0.8854	1.060		0.299	0.250	19.7	30.0
Benzo[b]fluoranthene	Ave	1.189	1.230		0.259	0.250	3.4	30.0
Benzo[k]fluoranthene	Ave	1.175	1.283		0.273	0.250	9.2	30.0
Benzo[a]pyrene	Ave	1.034	1.181		0.286	0.250	14.3	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.8361	0.9679		0.289	0.250	15.8	30.0
Dibenz(a,h)anthracene	Lin1		0.9700		0.247	0.250	-1.0	30.0
Benzo[g,h,i]perylene	Ave	1.020	1.153		0.283	0.250	13.1	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0908.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Jun-2021 10:12:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0032502-009
Operator ID: jmg00346 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:49:17 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: gamblerj Date: 22-Jun-2021 10:50:09

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.775	2.775	0.000	99	63836	0.2500	0.2813	
	2 N-Nitrosodimethylamine	74	3.025	3.025	0.000	90	82874	0.2500	0.3640	
	3 Bis(2-chloroethyl)ether	93	5.804	5.804	0.000	95	154006	0.2500	0.2645	
*	4 1,4-Dichlorobenzene-d4	152	6.178	6.178	0.000	98	138976	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.141	8.141	0.000	100	485177	0.2500	0.2500	
	6 Naphthalene	128	8.178	8.178	0.000	99	501525	0.2500	0.2509	
	8 2-Methylnaphthalene	142	9.306	9.306	0.000	98	336298	0.2500	0.2473	
	10 1-Methylnaphthalene	142	9.456	9.456	0.000	99	316486	0.2500	0.2489	
	11 Dimethyl phthalate	163	10.618	10.618	0.000	98	370786	0.2500	0.2945	
	12 Acenaphthylene	152	10.758	10.758	0.000	97	501908	0.2500	0.2487	
*	13 Acenaphthene-d10	164	10.979	10.979	0.000	95	262325	0.2500	0.2500	
	14 Acenaphthene	154	11.029	11.029	0.000	92	303451	0.2500	0.2594	
	15 Dibenzofuran	168	11.279	11.279	0.000	96	482592	0.2500	0.2453	
	16 Diethyl phthalate	149	11.634	11.634	0.000	99	364890	0.2500	0.2947	
	17 Fluorene	166	11.719	11.719	0.000	99	380020	0.2500	0.2527	
	18 N-Nitrosodiphenylamine	169	11.889	11.889	0.000	99	257243	0.2125	0.2828	
	19 Hexachlorobenzene	284	12.391	12.391	0.000	94	165469	0.2500	0.2484	
*	20 Phenanthrene-d10	188	12.893	12.893	0.000	100	501189	0.2500	0.2500	
	21 Phenanthrene	178	12.923	12.923	0.000	100	587302	0.2500	0.2587	
	22 Anthracene	178	12.993	12.993	0.000	100	539980	0.2500	0.2706	
	23 Di-n-butyl phthalate	149	13.738	13.738	0.000	100	538205	0.2500	0.2967	
	25 Fluoranthene	202	14.597	14.597	0.000	97	635725	0.2500	0.2683	
	26 Pyrene	202	14.942	14.942	0.000	96	633559	0.2500	0.2625	
	27 Butyl benzyl phthalate	149	16.104	16.104	0.000	100	234420	0.2500	0.2823	
	28 Benzo[a]anthracene	228	16.978	16.978	0.000	99	600516	0.2500	0.2549	
*	29 Chrysene-d12	240	16.994	16.994	0.000	92	478338	0.2500	0.2500	s
	30 Chrysene	228	17.040	17.040	0.000	100	606223	0.2500	0.2732	
	31 Bis(2-ethylhexyl) phthalate	149	17.186	17.186	0.000	99	340653	0.2500	0.2998	
	32 Di-n-octyl phthalate	149	18.359	18.359	0.000	100	553265	0.2500	0.2992	
	33 Benzo[b]fluoranthene	252	18.850	18.850	0.000	100	642030	0.2500	0.2585	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	18.896	18.896	0.000	100	669814	0.2500	0.2730	
37 Benzo[a]pyrene	252	19.387	19.387	0.000	100	616746	0.2500	0.2857	
* 38 Perylene-d12	264	19.479	19.479	0.000	95	522166	0.2500	0.2500	s
40 Indeno[1,2,3-cd]pyrene	276	21.146	21.146	0.000	95	505388	0.2500	0.2894	
41 Dibenz(a,h)anthracene	278	21.202	21.202	0.000	94	506491	0.2500	0.2475	
42 Benzo[g,h,i]perylene	276	21.584	21.584	0.000	96	602170	0.2500	0.2827	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

MSS_RVSIM_ICV_00022 Amount Added: 1.00 Units: mL

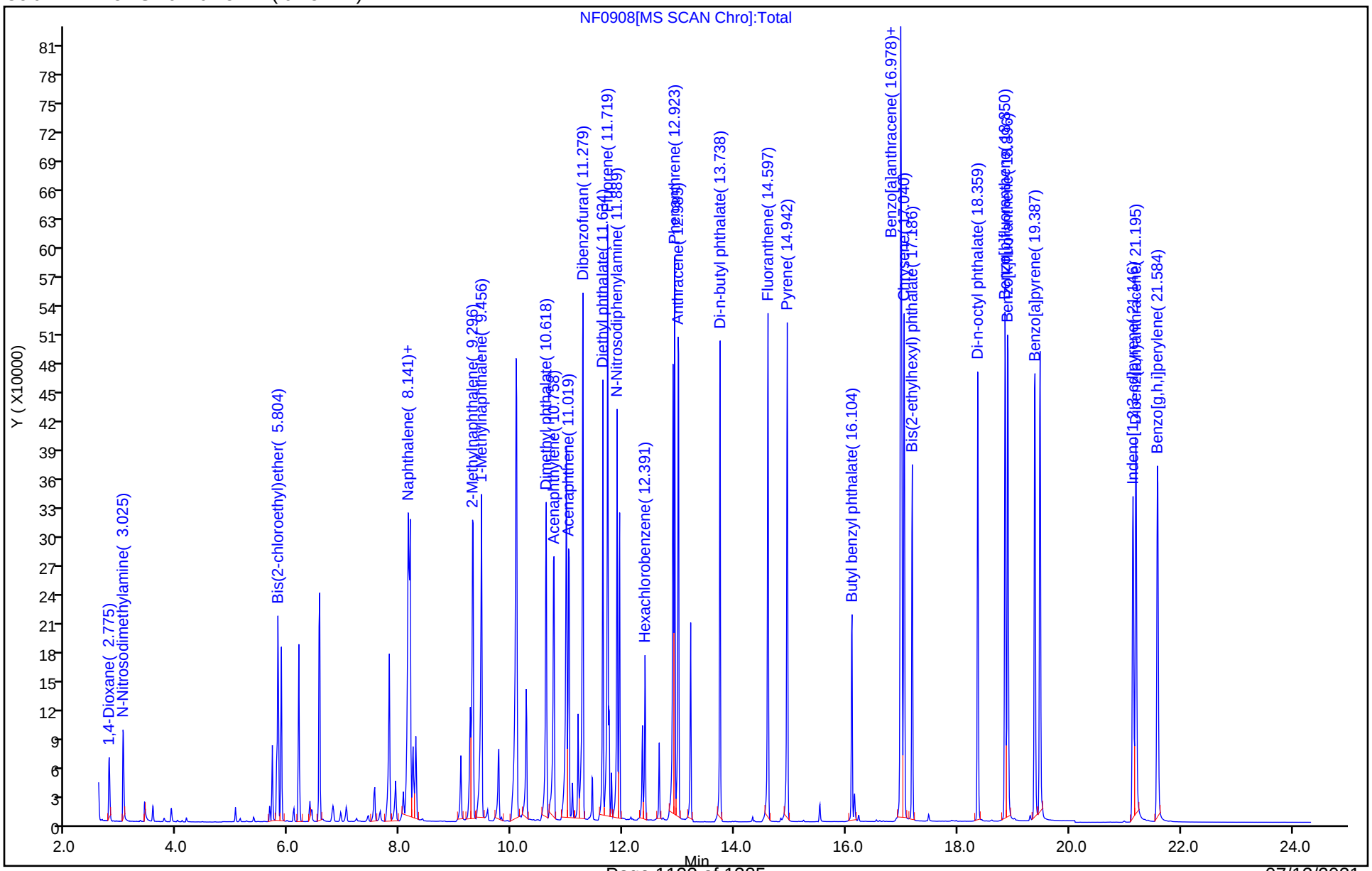
Report Date: 23-Jun-2021 03:49:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0908.D

Injection Date:	22-Jun-2021 10:12:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-143979/2 Calibration Date: 06/30/2021 18:52

Instrument ID: HP23263 Calib Start Date: 06/22/2021 06:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/22/2021 09:12

Lab File ID: NF1701a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4082	0.4019		0.492	0.500	-1.6	20.0
N-Nitrosodimethylamine	Ave	0.4096	0.4168		0.509	0.500	1.7	20.0
Bis(2-chloroethyl)ether	Ave	0.3001	0.2758		0.460	0.500	-8.1	20.0
Naphthalene	Ave	1.030	0.996		0.484	0.500	-3.3	20.0
Quinoline	Ave	0.6413	0.6238		0.486	0.500	-2.7	20.0
2-Methylnaphthalene	Ave	0.7008	0.6829		0.487	0.500	-2.6	20.0
1-Methylnaphthalene	Ave	0.6553	0.6489		0.495	0.500	-1.0	20.0
Dimethylphthalate	Ave	1.200	1.162		2.42	2.50	-3.2	20.0
Acenaphthylene	Ave	1.923	1.932		0.502	0.500	0.4	20.0
Acenaphthene	Ave	1.115	1.116		0.501	0.500	0.1	20.0
Dibenzofuran	Ave	1.875	1.851		0.494	0.500	-1.3	20.0
Diethylphthalate	Ave	1.180	1.142		2.42	2.50	-3.2	20.0
Fluorene	Ave	1.433	1.389		0.485	0.500	-3.1	20.0
N-Nitrosodiphenylamine	Ave	0.4538	0.4623		0.509	0.500	1.9	20.0
Hexachlorobenzene	Ave	0.3323	0.3255		0.490	0.500	-2.0	20.0
Phenanthrene	Ave	1.132	1.096		0.484	0.500	-3.2	20.0
Anthracene	Ave	0.996	0.997		0.501	0.500	0.2	20.0
Di-n-butyl phthalate	Ave	0.9047	0.9385		2.59	2.50	3.7	20.0
Fluoranthene	Ave	1.182	1.167		0.494	0.500	-1.2	20.0
Pyrene	Ave	1.261	1.284		0.509	0.500	1.8	20.0
Butylbenzylphthalate	Ave	0.4340	0.4606		2.65	2.50	6.1	20.0
Benzo[a]anthracene	Ave	1.231	1.220		0.495	0.500	-0.9	20.0
Chrysene	Ave	1.160	1.197		0.516	0.500	3.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5939	0.6575		2.77	2.50	10.7	20.0
Di-n-octyl phthalate	Ave	0.8854	0.9542		2.69	2.50	7.8	20.0
Benzo[b]fluoranthene	Ave	1.189	1.166		0.490	0.500	-1.9	20.0
Benzo[k]fluoranthene	Ave	1.175	1.217		0.518	0.500	3.6	20.0
Benzo[e]pyrene	Ave	1.135	1.141		0.503	0.500	0.5	20.0
Benzo[a]pyrene	Ave	1.034	1.097		0.531	0.500	6.2	20.0
Perylene	Ave	1.098	1.126		0.512	0.500	2.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8361	1.010		0.604	0.500	20.8*	20.0
Dibenz(a,h)anthracene	Lin1		1.172		0.588	0.500	17.7	20.0
Benzo[g,h,i]perylene	Ave	1.020	1.278		0.627	0.500	25.4*	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5325	0.5326		0.500	0.500	0.0	20.0
Fluoranthene-d10 (Surr)	Ave	1.029	1.011		0.491	0.500	-1.7	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9227	1.000		0.542	0.500	8.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1701a.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Jun-2021 18:52:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033299-002
Operator ID: art12405 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Jun-2021 19:42:28 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: transuea Date: 30-Jun-2021 19:28:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.656	2.656	0.000	99	202413	0.5000	0.4922	
2 N-Nitrosodimethylamine	74	2.919	2.919	0.000	89	209919	0.5000	0.5087	
3 Bis(2-chloroethyl)ether	93	5.703	5.703	0.000	97	500735	0.5000	0.4596	
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	97	251851	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.040	8.040	0.000	100	907763	0.2500	0.2500	
6 Naphthalene	128	8.077	8.077	0.000	100	1808758	0.5000	0.4836	
7 Quinoline	129	8.615	8.615	0.000	99	1132436	0.5000	0.4863	
8 2-Methylnaphthalene	142	9.195	9.195	0.000	99	1239831	0.5000	0.4872	
$ 9 1-Methylnaphthalene-d10	152	9.296	9.296	0.000	99	966879	0.5000	0.5001	
10 1-Methylnaphthalene	142	9.356	9.356	0.000	100	1178017	0.5000	0.4951	
11 Dimethyl phthalate	163	10.517	10.517	0.000	100	5642681	2.50	2.42	
12 Acenaphthylene	152	10.658	10.658	0.000	68	1876560	0.5000	0.5022	
* 13 Acenaphthene-d10	164	10.888	10.888	0.000	99	485662	0.2500	0.2500	
14 Acenaphthene	154	10.928	10.928	0.000	96	1084146	0.5000	0.5006	
15 Dibenzofuran	168	11.188	11.188	0.000	76	1797730	0.5000	0.4936	
16 Diethyl phthalate	149	11.556	11.556	0.000	99	5544541	2.50	2.42	
17 Fluorene	166	11.641	11.641	0.000	99	1349019	0.5000	0.4845	
18 N-Nitrosodiphenylamine	169	11.819	11.819	0.000	95	880350	0.5000	0.5094	
19 Hexachlorobenzene	284	12.305	12.305	0.000	95	619916	0.5000	0.4899	
* 20 Phenanthrene-d10	188	12.807	12.807	0.000	100	952144	0.2500	0.2500	
21 Phenanthrene	178	12.830	12.830	0.000	100	2087068	0.5000	0.4839	
22 Anthracene	178	12.900	12.900	0.000	100	1899367	0.5000	0.5009	
23 Di-n-butyl phthalate	149	13.644	13.644	0.000	100	8936315	2.50	2.59	
$ 24 Fluoranthene-d10 (Surr)	212	14.471	14.471	0.000	97	1925387	0.5000	0.4914	
25 Fluoranthene	202	14.496	14.496	0.000	98	2223084	0.5000	0.4938	
26 Pyrene	202	14.841	14.841	0.000	96	2353974	0.5000	0.5089	
27 Butyl benzyl phthalate	149	15.996	15.996	0.000	100	4223282	2.50	2.65	
28 Benzo[a]anthracene	228	16.870	16.870	0.000	100	2237090	0.5000	0.4954	
* 29 Chrysene-d12	240	16.886	16.886	0.000	97	916825	0.2500	0.2500	
30 Chrysene	228	16.932	16.932	0.000	100	2194093	0.5000	0.5158	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.070	17.070	0.000	99	6028264	2.50	2.77	
32 Di-n-octyl phthalate	149	18.251	18.251	0.000	100	10144329	2.50	2.69	
33 Benzo[b]fluoranthene	252	18.742	18.742	0.000	100	2479310	0.5000	0.4904	
34 Benzo[k]fluoranthene	252	18.788	18.788	0.000	100	2588281	0.5000	0.5181	
35 Benzo[e]pyrene	252	19.194	19.194	0.000	100	2425131	0.5000	0.5026	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.240	19.240	0.000	96	2126685	0.5000	0.5420	
37 Benzo[a]pyrene	252	19.271	19.271	0.000	100	2333017	0.5000	0.5308	
* 38 Perylene-d12	264	19.371	19.371	0.000	94	1063155	0.2500	0.2500	
39 Perylene	252	19.409	19.409	0.000	100	2393374	0.5000	0.5124	
40 Indeno[1,2,3-cd]pyrene	276	21.018	21.018	0.000	96	2147862	0.5000	0.6041	M
41 Dibenz(a,h)anthracene	278	21.075	21.075	0.000	94	2491186	0.5000	0.5884	M
42 Benzo[g,h,i]perylene	276	21.449	21.449	0.000	96	2718462	0.5000	0.6269	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

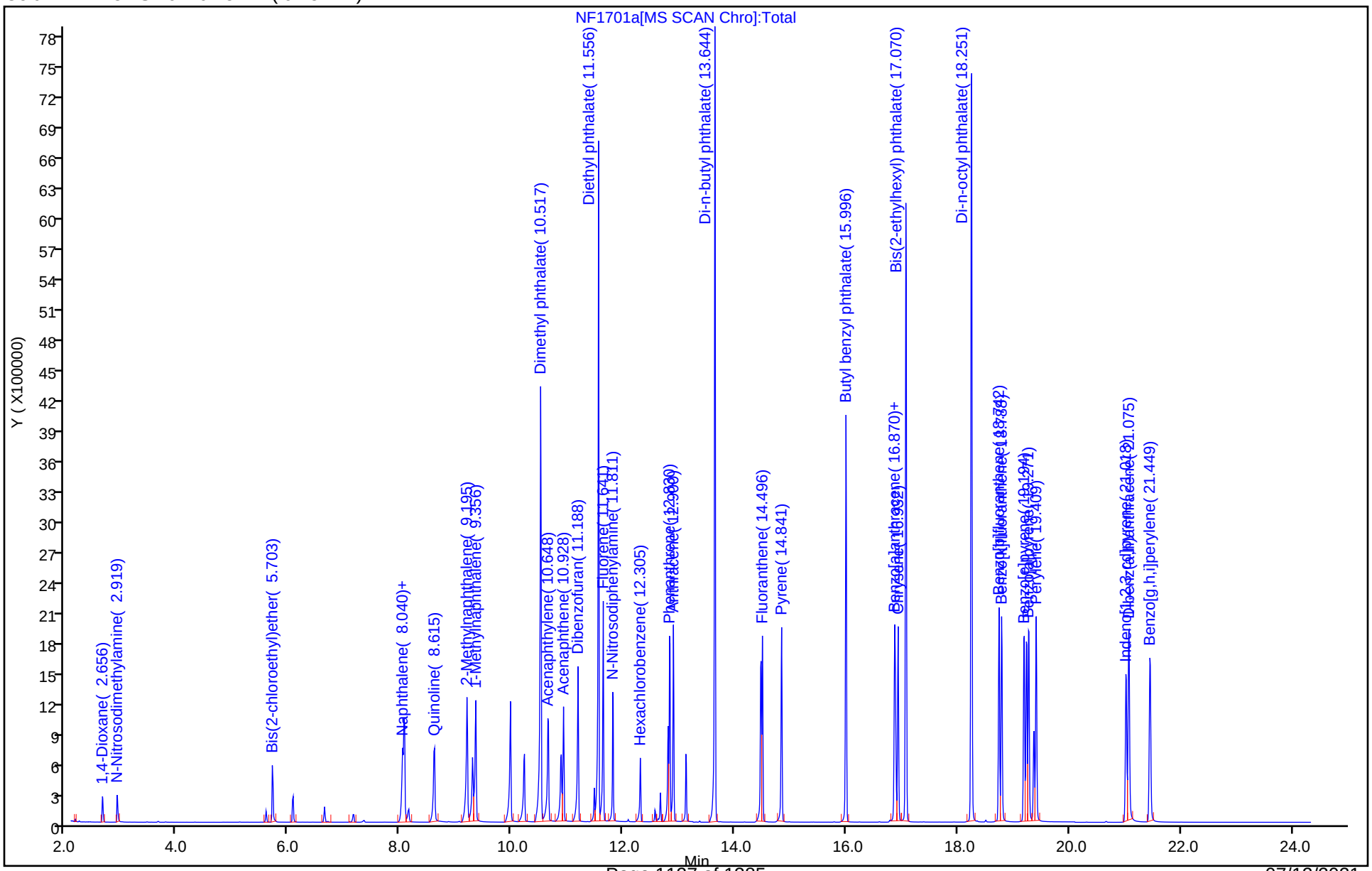
Report Date: 30-Jun-2021 19:42:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1701a.D

Injection Date:	30-Jun-2021 18:52:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

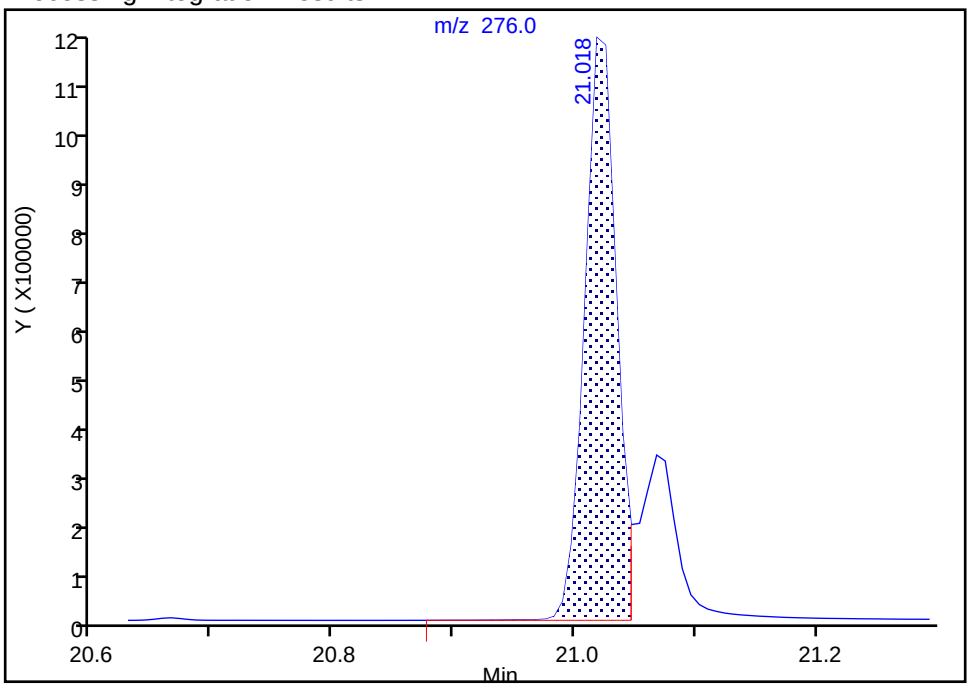
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Injection Date:	30-Jun-2021 18:52:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

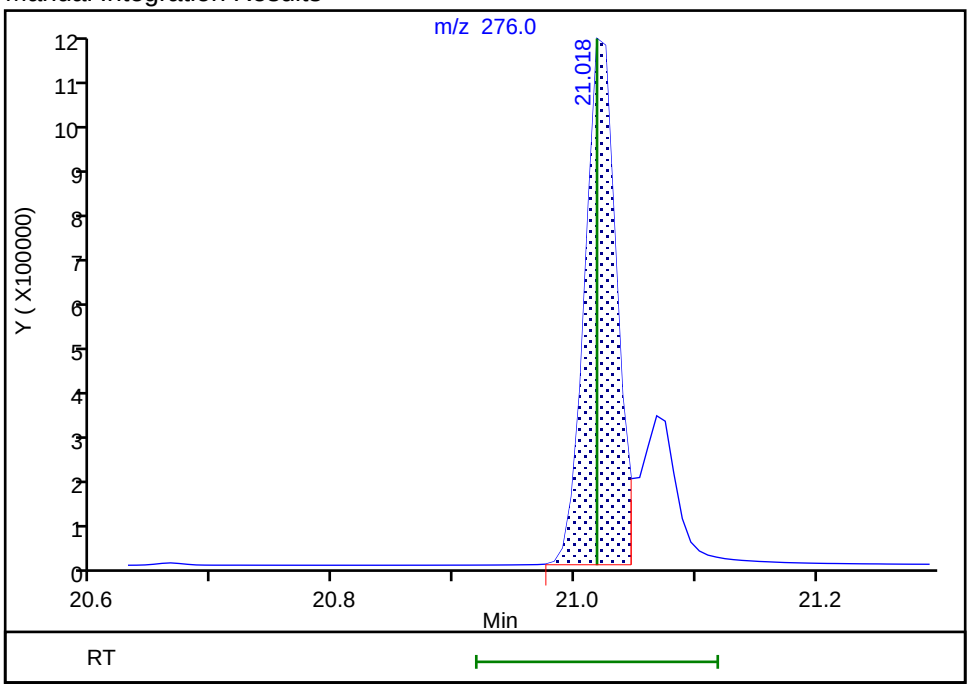
Processing Integration Results

RT: 21.02
Area: 2154997
Amount: 0.606088
Amount Units: ug/ml



Manual Integration Results

RT: 21.02
Area: 2147862
Amount: 0.604081
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 19:25:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

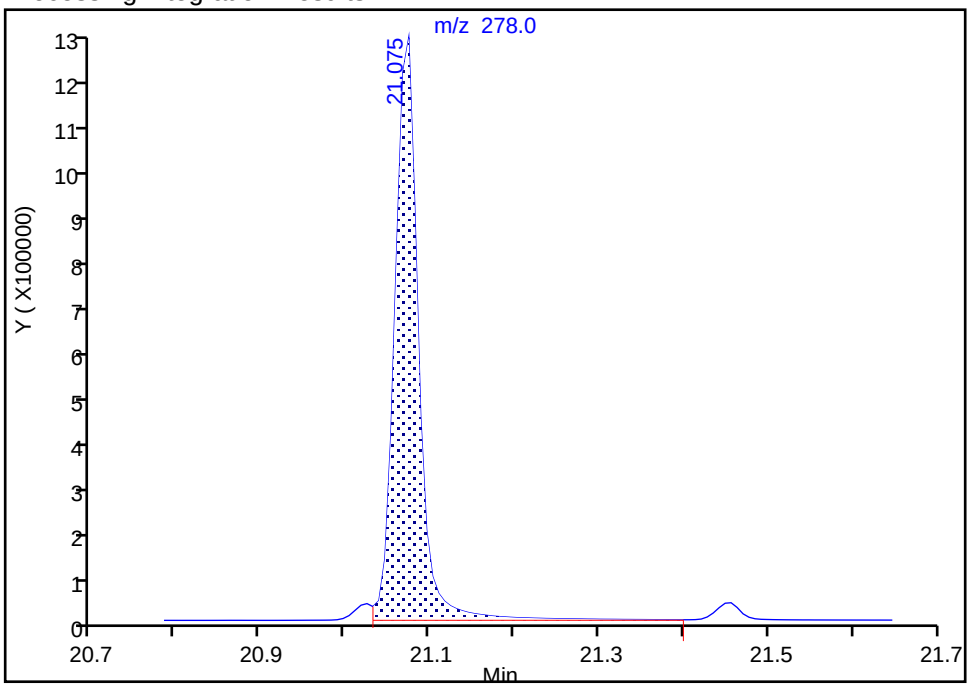
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Injection Date: 30-Jun-2021 18:52:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

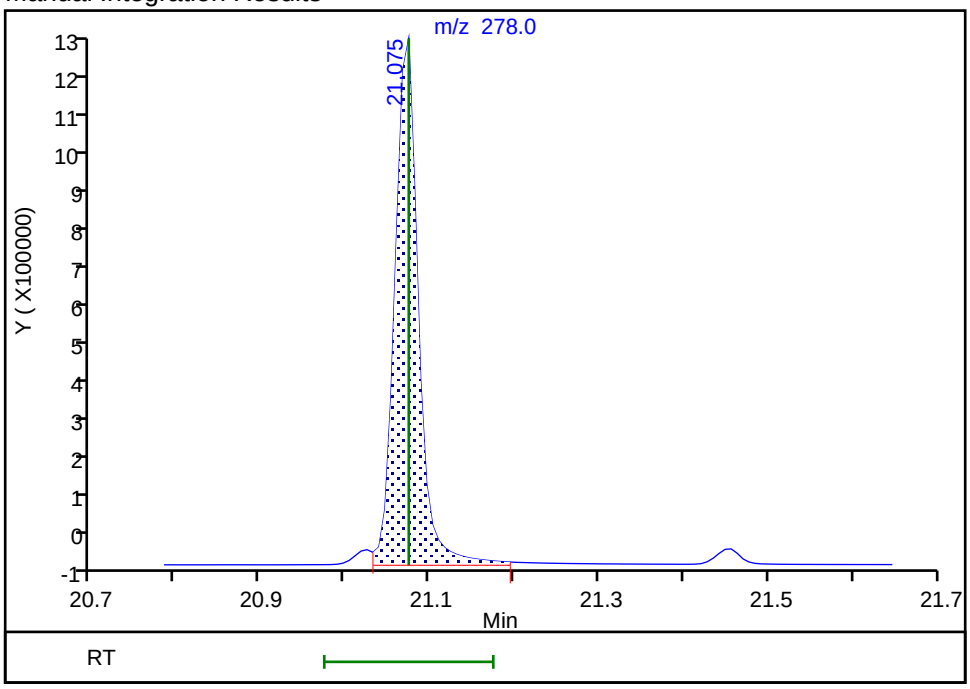
Processing Integration Results

RT: 21.07
Area: 2512778
Amount: 0.593421
Amount Units: ug/ml



Manual Integration Results

RT: 21.07
Area: 2491186
Amount: 0.588379
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 19:26:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

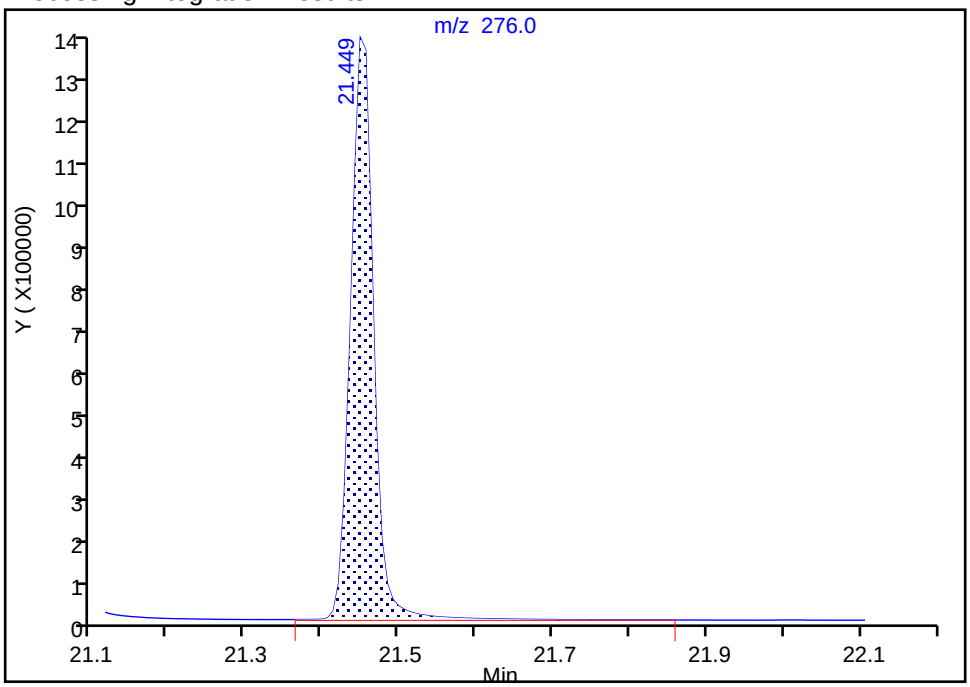
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Injection Date:	30-Jun-2021 18:52:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

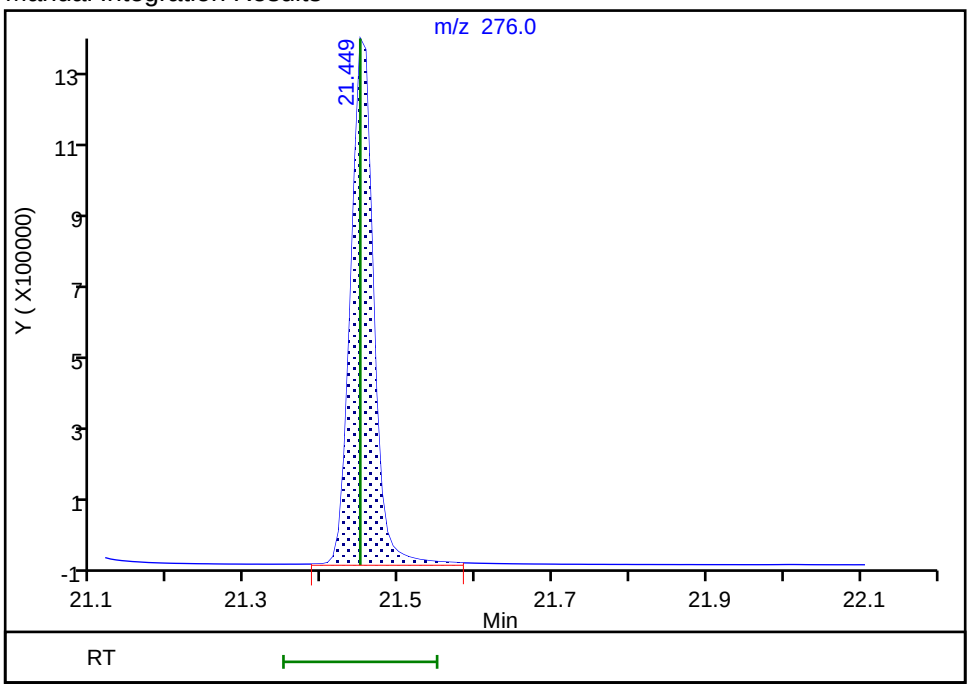
Processing Integration Results

RT: 21.45
Area: 2741391
Amount: 0.632169
Amount Units: ug/ml



Manual Integration Results

RT: 21.45
Area: 2718462
Amount: 0.626882
Amount Units: ug/ml



Reviewer: transuea, 30-Jun-2021 19:26:15

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144210/2 Calibration Date: 07/01/2021 08:27

Instrument ID: HP23263 Calib Start Date: 06/22/2021 06:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/22/2021 09:12

Lab File ID: NG0001.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4082	0.4043		0.495	0.500	-1.0	20.0
N-Nitrosodimethylamine	Ave	0.4096	0.4197		0.512	0.500	2.5	20.0
Bis(2-chloroethyl)ether	Ave	0.3001	0.2838		0.473	0.500	-5.4	20.0
Naphthalene	Ave	1.030	1.024		0.497	0.500	-0.6	20.0
Quinoline	Ave	0.6413	0.6511		0.508	0.500	1.5	20.0
2-Methylnaphthalene	Ave	0.7008	0.6994		0.499	0.500	-0.2	20.0
1-Methylnaphthalene	Ave	0.6553	0.6729		0.513	0.500	2.7	20.0
Dimethylphthalate	Ave	1.200	1.184		2.47	2.50	-1.3	20.0
Acenaphthylene	Ave	1.923	1.922		0.500	0.500	-0.0	20.0
Acenaphthene	Ave	1.115	1.092		0.490	0.500	-2.1	20.0
Dibenzofuran	Ave	1.875	1.804		0.481	0.500	-3.8	20.0
Diethylphthalate	Ave	1.180	1.150		2.44	2.50	-2.5	20.0
Fluorene	Ave	1.433	1.413		0.493	0.500	-1.4	20.0
N-Nitrosodiphenylamine	Ave	0.4538	0.4695		0.517	0.500	3.5	20.0
Hexachlorobenzene	Ave	0.3323	0.3263		0.491	0.500	-1.8	20.0
Phenanthrene	Ave	1.132	1.053		0.465	0.500	-7.0	20.0
Anthracene	Ave	0.996	1.021		0.513	0.500	2.6	20.0
Di-n-butyl phthalate	Ave	0.9047	0.9141		2.53	2.50	1.0	20.0
Fluoranthene	Ave	1.182	1.135		0.480	0.500	-4.0	20.0
Pyrene	Ave	1.261	1.262		0.500	0.500	0.0	20.0
Butylbenzylphthalate	Ave	0.4340	0.4472		2.58	2.50	3.0	20.0
Benzo[a]anthracene	Ave	1.231	1.204		0.489	0.500	-2.2	20.0
Chrysene	Ave	1.160	1.192		0.514	0.500	2.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5939	0.6247		2.63	2.50	5.2	20.0
Di-n-octyl phthalate	Ave	0.8854	0.9363		2.64	2.50	5.7	20.0
Benzo[b]fluoranthene	Ave	1.189	1.170		0.492	0.500	-1.6	20.0
Benzo[k]fluoranthene	Ave	1.175	1.166		0.496	0.500	-0.7	20.0
Benzo[e]pyrene	Ave	1.135	1.101		0.485	0.500	-3.0	20.0
Benzo[a]pyrene	Ave	1.034	1.061		0.513	0.500	2.6	20.0
Perylene	Ave	1.098	1.054		0.480	0.500	-4.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8361	1.043		0.624	0.500	24.7*	20.0
Dibenz(a,h)anthracene	Lin1		1.176		0.590	0.500	18.1	20.0
Benzo[g,h,i]perylene	Ave	1.020	1.253		0.614	0.500	22.8*	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5325	0.5436		0.510	0.500	2.1	20.0
Fluoranthene-d10 (Surr)	Ave	1.029	1.000		0.486	0.500	-2.8	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9227	0.9678		0.524	0.500	4.9	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0001.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Jul-2021 08:27:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033354-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 08:58:40 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 08:58:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.652	2.652	0.000	97	188659	0.5000	0.4951	
2 N-Nitrosodimethylamine	74	2.915	2.915	0.000	90	195858	0.5000	0.5123	
3 Bis(2-chloroethyl)ether	93	5.703	5.703	0.000	92	466081	0.5000	0.4729	
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	97	233330	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.040	8.040	0.000	100	821074	0.2500	0.2500	
6 Naphthalene	128	8.078	8.078	0.000	100	1681085	0.5000	0.4969	
7 Quinoline	129	8.615	8.615	0.000	99	1069223	0.5000	0.5077	
8 2-Methylnaphthalene	142	9.196	9.196	0.000	99	1148519	0.5000	0.4990	
$ 9 1-Methylnaphthalene-d10	152	9.296	9.296	0.000	99	892732	0.5000	0.5105	
10 1-Methylnaphthalene	142	9.356	9.356	0.000	100	1105007	0.5000	0.5134	
11 Dimethyl phthalate	163	10.518	10.518	0.000	100	5287685	2.50	2.47	
12 Acenaphthylene	152	10.658	10.658	0.000	68	1717078	0.5000	0.4996	
* 13 Acenaphthene-d10	164	10.888	10.888	0.000	99	446691	0.2500	0.2500	
14 Acenaphthene	154	10.928	10.928	0.000	97	975287	0.5000	0.4897	
15 Dibenzofuran	168	11.189	11.189	0.000	78	1611755	0.5000	0.4812	
16 Diethyl phthalate	149	11.556	11.556	0.000	100	5137358	2.50	2.44	
17 Fluorene	166	11.641	11.641	0.000	100	1262119	0.5000	0.4928	
18 N-Nitrosodiphenylamine	169	11.819	11.819	0.000	96	841828	0.5000	0.5174	
19 Hexachlorobenzene	284	12.313	12.313	0.000	89	584972	0.5000	0.4910	
* 20 Phenanthrene-d10	188	12.807	12.807	0.000	100	896421	0.2500	0.2500	
21 Phenanthrene	178	12.838	12.838	0.000	100	1888448	0.5000	0.4651	
22 Anthracene	178	12.908	12.908	0.000	100	1830788	0.5000	0.5129	
23 Di-n-butyl phthalate	149	13.650	13.650	0.000	100	8194434	2.50	2.53	
$ 24 Fluoranthene-d10 (Surr)	212	14.471	14.471	0.000	98	1792269	0.5000	0.4858	
25 Fluoranthene	202	14.503	14.503	0.000	97	2034136	0.5000	0.4799	
26 Pyrene	202	14.847	14.847	0.000	95	2135230	0.5000	0.5002	
27 Butyl benzyl phthalate	149	16.004	16.004	0.000	100	3783704	2.50	2.58	
28 Benzo[a]anthracene	228	16.878	16.878	0.000	100	2038029	0.5000	0.4891	
* 29 Chrysene-d12	240	16.894	16.894	0.000	94	846074	0.2500	0.2500	
30 Chrysene	228	16.932	16.932	0.000	100	2017414	0.5000	0.5140	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.078	17.078	0.000	99	5285514	2.50	2.63	
32 Di-n-octyl phthalate	149	18.251	18.251	0.000	100	9030613	2.50	2.64	
33 Benzo[b]fluoranthene	252	18.750	18.750	0.000	100	2257115	0.5000	0.4920	
34 Benzo[k]fluoranthene	252	18.796	18.796	0.000	100	2249570	0.5000	0.4963	
35 Benzo[e]pyrene	252	19.195	19.195	0.000	100	2123251	0.5000	0.4850	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.241	19.241	0.000	97	1867025	0.5000	0.5245	
37 Benzo[a]pyrene	252	19.279	19.279	0.000	100	2046286	0.5000	0.5132	
* 38 Perylene-d12	264	19.379	19.379	0.000	94	964545	0.2500	0.2500	
39 Perylene	252	19.417	19.417	0.000	100	2033860	0.5000	0.4799	
40 Indeno[1,2,3-cd]pyrene	276	21.033	21.033	0.000	94	2012063	0.5000	0.6237	
41 Dibenz(a,h)anthracene	278	21.082	21.082	0.000	94	2268109	0.5000	0.5904	
42 Benzo[g,h,i]perylene	276	21.463	21.463	0.000	95	2416215	0.5000	0.6141	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

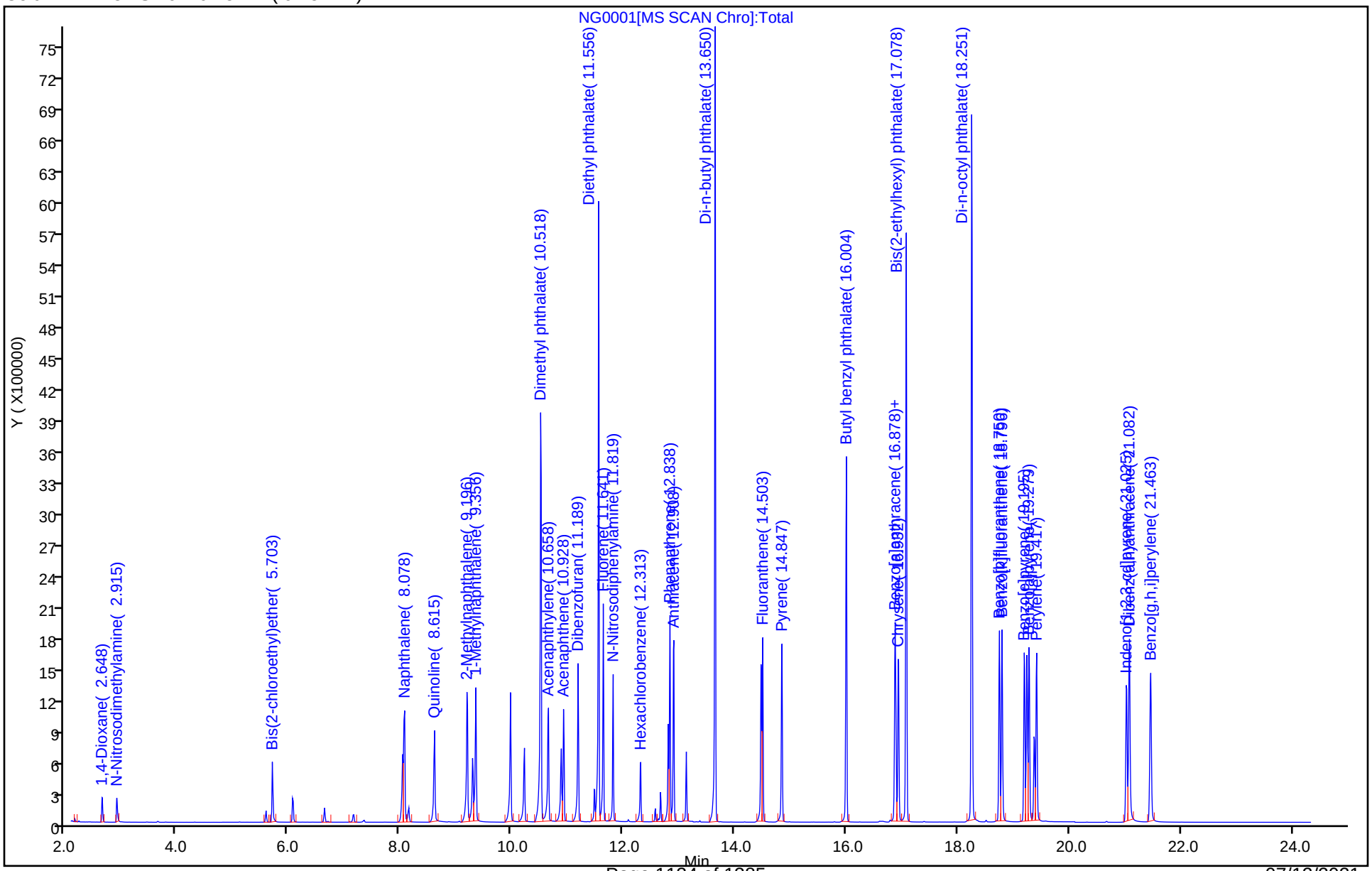
Report Date: 01-Jul-2021 08:58:40 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0001.D

Injection Date:	01-Jul-2021 08:27:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-144525/2 Calibration Date: 07/01/2021 19:13

Instrument ID: HP23263 Calib Start Date: 06/22/2021 06:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/22/2021 09:12

Lab File ID: NG0101.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4082	0.3832		0.469	0.500	-6.1	20.0
N-Nitrosodimethylamine	Ave	0.4096	0.4005		0.489	0.500	-2.2	20.0
Bis(2-chloroethyl)ether	Ave	0.3001	0.2749		0.458	0.500	-8.4	20.0
Naphthalene	Ave	1.030	0.9880		0.480	0.500	-4.1	20.0
Quinoline	Ave	0.6413	0.6595		0.514	0.500	2.8	20.0
2-Methylnaphthalene	Ave	0.7008	0.6984		0.498	0.500	-0.3	20.0
1-Methylnaphthalene	Ave	0.6553	0.6796		0.519	0.500	3.7	20.0
Dimethylphthalate	Ave	1.200	1.186		2.47	2.50	-1.2	20.0
Acenaphthylene	Ave	1.923	1.924		0.500	0.500	0.0	20.0
Acenaphthene	Ave	1.115	1.170		0.525	0.500	5.0	20.0
Dibenzofuran	Ave	1.875	1.735		0.463	0.500	-7.5	20.0
Diethylphthalate	Ave	1.180	1.155		2.45	2.50	-2.1	20.0
Fluorene	Ave	1.433	1.438		0.502	0.500	0.3	20.0
N-Nitrosodiphenylamine	Ave	0.4538	0.4689		0.517	0.500	3.3	20.0
Hexachlorobenzene	Ave	0.3323	0.3293		0.495	0.500	-0.9	20.0
Phenanthrene	Ave	1.132	1.098		0.485	0.500	-3.0	20.0
Anthracene	Ave	0.996	1.037		0.521	0.500	4.2	20.0
Di-n-butyl phthalate	Ave	0.9047	0.9601		2.65	2.50	6.1	20.0
Fluoranthene	Ave	1.182	1.163		0.492	0.500	-1.6	20.0
Pyrene	Ave	1.261	1.217		0.482	0.500	-3.5	20.0
Butylbenzylphthalate	Ave	0.4340	0.4492		2.59	2.50	3.5	20.0
Benzo[a]anthracene	Ave	1.231	1.219		0.495	0.500	-1.0	20.0
Chrysene	Ave	1.160	1.160		0.500	0.500	-0.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5939	0.6554		2.76	2.50	10.3	20.0
Di-n-octyl phthalate	Ave	0.8854	1.009		2.85	2.50	14.0	20.0
Benzo[b]fluoranthene	Ave	1.189	1.165		0.490	0.500	-2.0	20.0
Benzo[k]fluoranthene	Ave	1.175	1.182		0.503	0.500	0.6	20.0
Benzo[e]pyrene	Ave	1.135	1.182		0.521	0.500	4.1	20.0
Benzo[a]pyrene	Ave	1.034	1.094		0.529	0.500	5.8	20.0
Perylene	Ave	1.098	1.131		0.515	0.500	3.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8361	1.080		0.646	0.500	29.2*	20.0
Dibenz(a,h)anthracene	Lin1		1.193		0.599	0.500	19.8	20.0
Benzo[g,h,i]perylene	Ave	1.020	1.276		0.626	0.500	25.2*	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5325	0.5482		0.515	0.500	2.9	20.0
Fluoranthene-d10 (Surr)	Ave	1.029	1.029		0.500	0.500	0.0	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9227	1.014		0.549	0.500	9.9	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Jul-2021 19:13:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033426-002
Operator ID: art12405 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 20:14:07 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 20:12:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.678	2.678	0.000	99	168393	0.5000	0.4693	M
2 N-Nitrosodimethylamine	74	2.941	2.941	0.000	90	176027	0.5000	0.4889	
3 Bis(2-chloroethyl)ether	93	5.716	5.716	0.000	89	422290	0.5000	0.4581	
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	89	219745	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.052	8.052	0.000	100	768058	0.2500	0.2500	
6 Naphthalene	128	8.077	8.077	0.000	100	1517729	0.5000	0.4796	
7 Quinoline	129	8.627	8.627	0.000	98	1013069	0.5000	0.5142	
8 2-Methylnaphthalene	142	9.205	9.205	0.000	99	1072848	0.5000	0.4983	
$ 9 1-Methylnaphthalene-d10	152	9.306	9.306	0.000	99	842027	0.5000	0.5147	
10 1-Methylnaphthalene	142	9.366	9.366	0.000	100	1044016	0.5000	0.5186	
11 Dimethyl phthalate	163	10.527	10.527	0.000	100	4959640	2.50	2.47	
12 Acenaphthylene	152	10.658	10.658	0.000	68	1609585	0.5000	0.5002	
* 13 Acenaphthene-d10	164	10.888	10.888	0.000	90	418252	0.2500	0.2500	
14 Acenaphthene	154	10.938	10.938	0.000	95	978985	0.5000	0.5249	
15 Dibenzofuran	168	11.199	11.199	0.000	73	1451278	0.5000	0.4627	
16 Diethyl phthalate	149	11.564	11.564	0.000	99	4832339	2.50	2.45	
17 Fluorene	166	11.649	11.649	0.000	99	1203006	0.5000	0.5017	
18 N-Nitrosodiphenylamine	169	11.826	11.826	0.000	95	784548	0.5000	0.5167	
19 Hexachlorobenzene	284	12.313	12.313	0.000	96	550852	0.5000	0.4955	
* 20 Phenanthrene-d10	188	12.815	12.815	0.000	100	836517	0.2500	0.2500	
21 Phenanthrene	178	12.846	12.846	0.000	100	1837045	0.5000	0.4848	
22 Anthracene	178	12.907	12.907	0.000	100	1735367	0.5000	0.5209	M
23 Di-n-butyl phthalate	149	13.656	13.656	0.000	100	8031108	2.50	2.65	
$ 24 Fluoranthene-d10 (Surr)	212	14.484	14.484	0.000	96	1721888	0.5000	0.5002	M
25 Fluoranthene	202	14.509	14.509	0.000	97	1946417	0.5000	0.4921	M
26 Pyrene	202	14.853	14.853	0.000	96	2062273	0.5000	0.4824	M
27 Butyl benzyl phthalate	149	16.012	16.012	0.000	100	3805825	2.50	2.59	M
28 Benzo[a]anthracene	228	16.886	16.886	0.000	100	2066044	0.5000	0.4951	
* 29 Chrysene-d12	240	16.901	16.901	0.000	99	847314	0.2500	0.2500	
30 Chrysene	228	16.947	16.947	0.000	100	1965291	0.5000	0.4999	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.085	17.085	0.000	99	5552912	2.50	2.76	M
32 Di-n-octyl phthalate	149	18.259	18.259	0.000	100	9865150	2.50	2.85	M
33 Benzo[b]fluoranthene	252	18.757	18.757	0.000	100	2278649	0.5000	0.4900	M
34 Benzo[k]fluoranthene	252	18.803	18.803	0.000	100	2311227	0.5000	0.5030	M
35 Benzo[e]pyrene	252	19.210	19.210	0.000	100	2310849	0.5000	0.5207	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.256	19.256	0.000	96	1982603	0.5000	0.5494	M
37 Benzo[a]pyrene	252	19.294	19.294	0.000	100	2139476	0.5000	0.5292	
* 38 Perylene-d12	264	19.386	19.386	0.000	94	977820	0.2500	0.2500	
39 Perylene	252	19.424	19.424	0.000	100	2211854	0.5000	0.5149	M
40 Indeno[1,2,3-cd]pyrene	276	21.039	21.039	0.000	95	2112315	0.5000	0.6459	M
41 Dibenz(a,h)anthracene	278	21.089	21.089	0.000	95	2333235	0.5000	0.5990	
42 Benzo[g,h,i]perylene	276	21.477	21.477	0.000	94	2495856	0.5000	0.6258	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

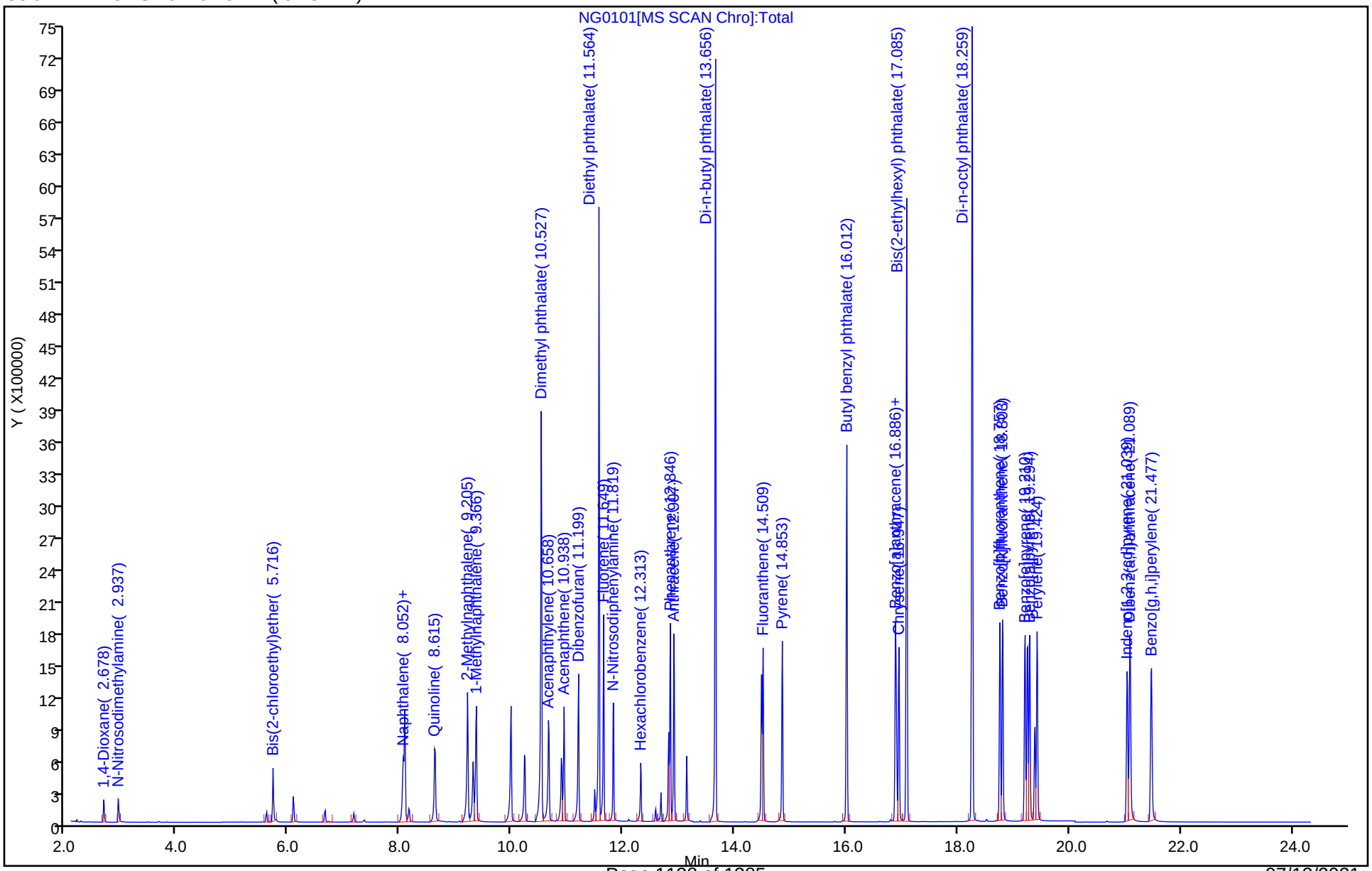
Report Date: 01-Jul-2021 20:14:08 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D

Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

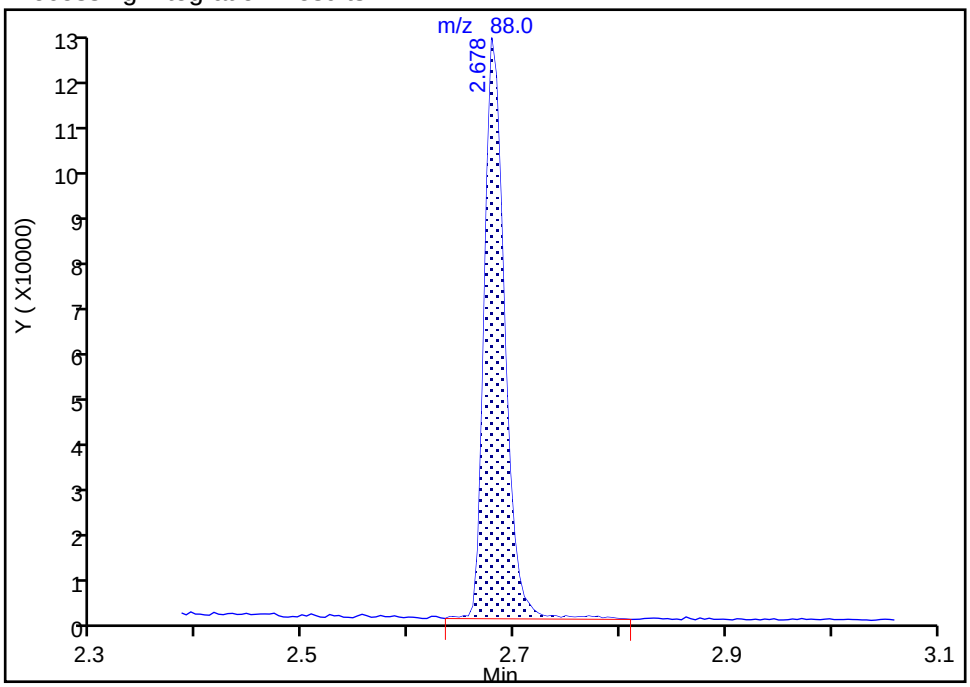
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Injection Date: 01-Jul-2021 19:13:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

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

Signal: 1

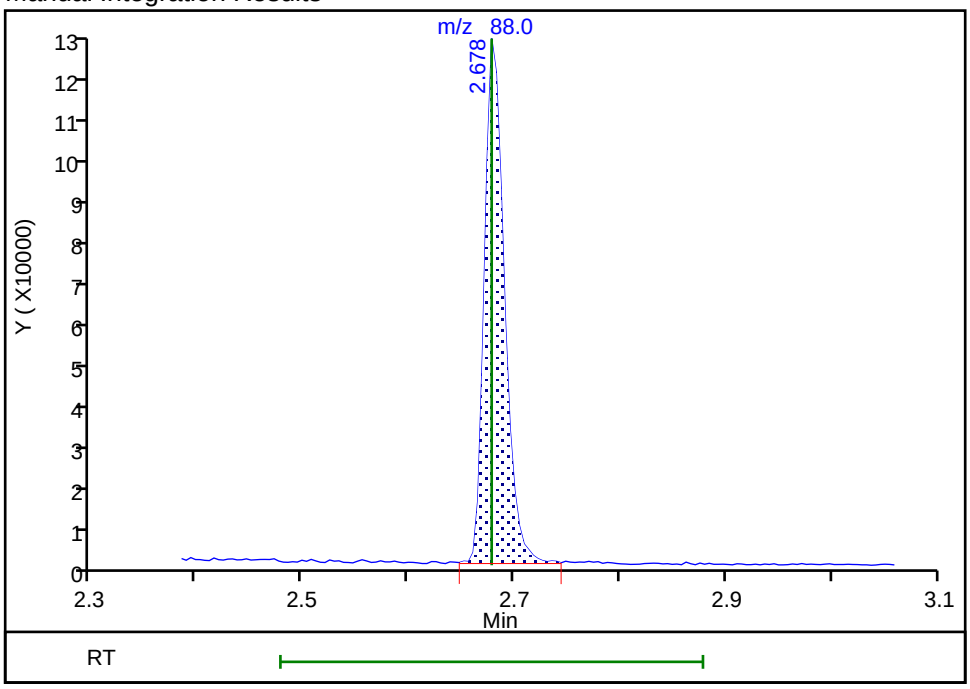
Processing Integration Results

RT: 2.68
Area: 170667
Amount: 0.475604
Amount Units: ug/ml



Manual Integration Results

RT: 2.68
Area: 168393
Amount: 0.469267
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:50:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

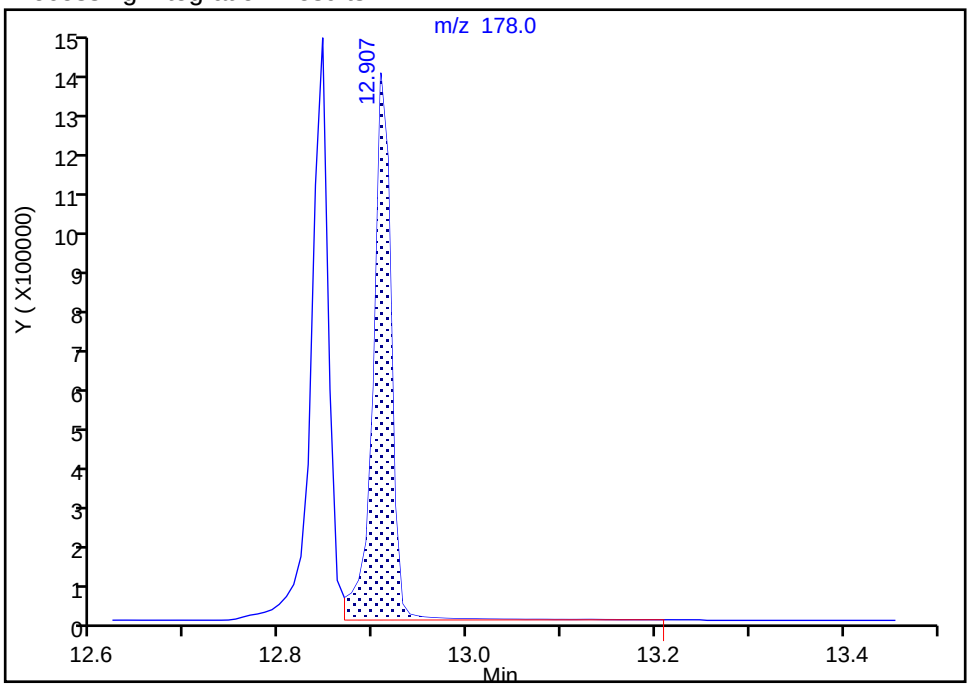
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Injection Date: 01-Jul-2021 19:13:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

22 Anthracene, CAS: 120-12-7

Signal: 1

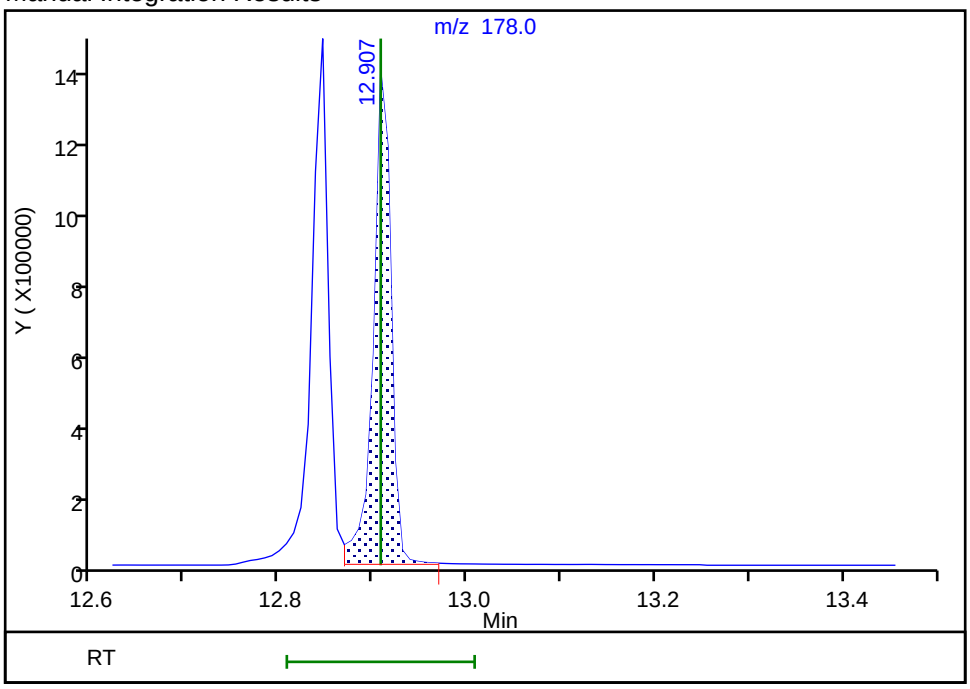
Processing Integration Results

RT: 12.91
Area: 1763668
Amount: 0.529438
Amount Units: ug/ml



Manual Integration Results

RT: 12.91
Area: 1735367
Amount: 0.520943
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:51:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

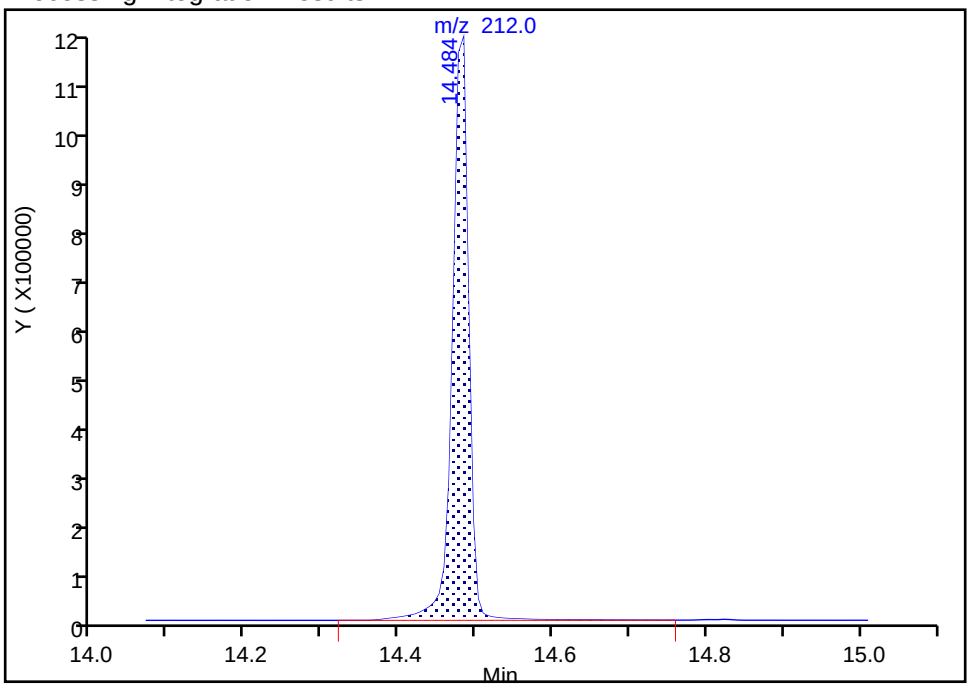
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Lims ID:	CCVIS		
Client ID:			
Operator ID:	art12405	ALS Bottle#:	2 Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

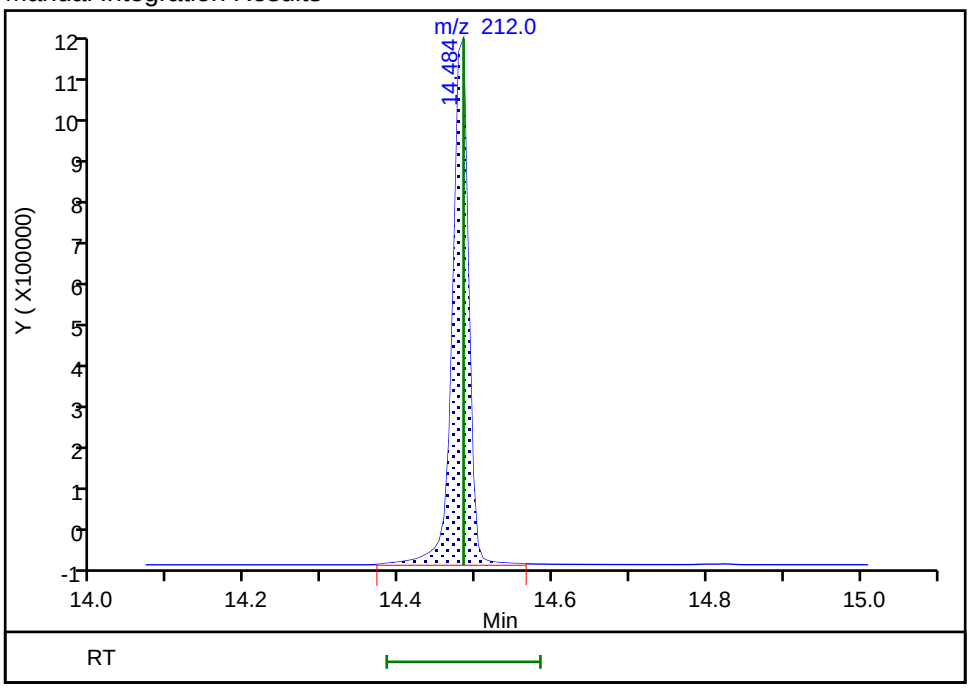
Processing Integration Results

RT: 14.48
Area: 1718431
Amount: 0.499192
Amount Units: ug/ml



Manual Integration Results

RT: 14.48
Area: 1721888
Amount: 0.500196
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:51:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

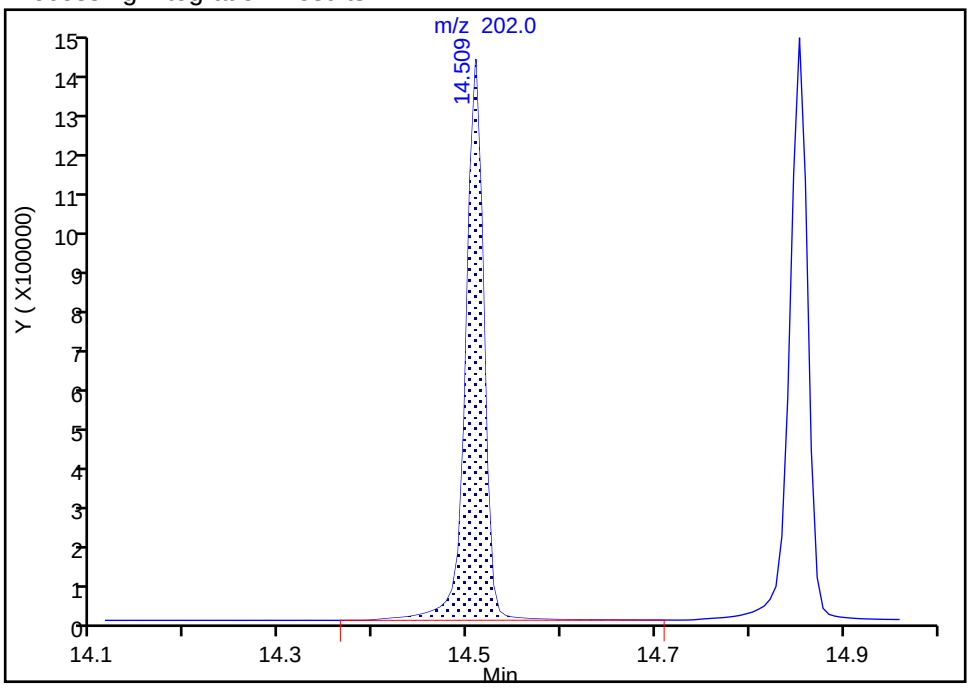
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Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

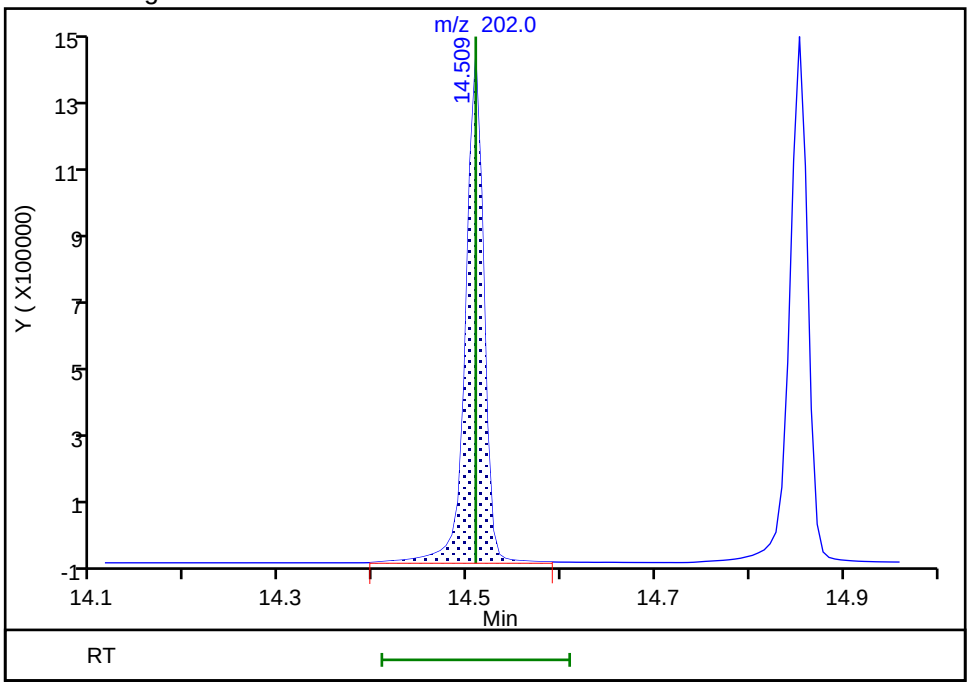
Processing Integration Results

RT: 14.51
Area: 1934190
Amount: 0.489028
Amount Units: ug/ml



Manual Integration Results

RT: 14.51
Area: 1946417
Amount: 0.492119
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:51:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

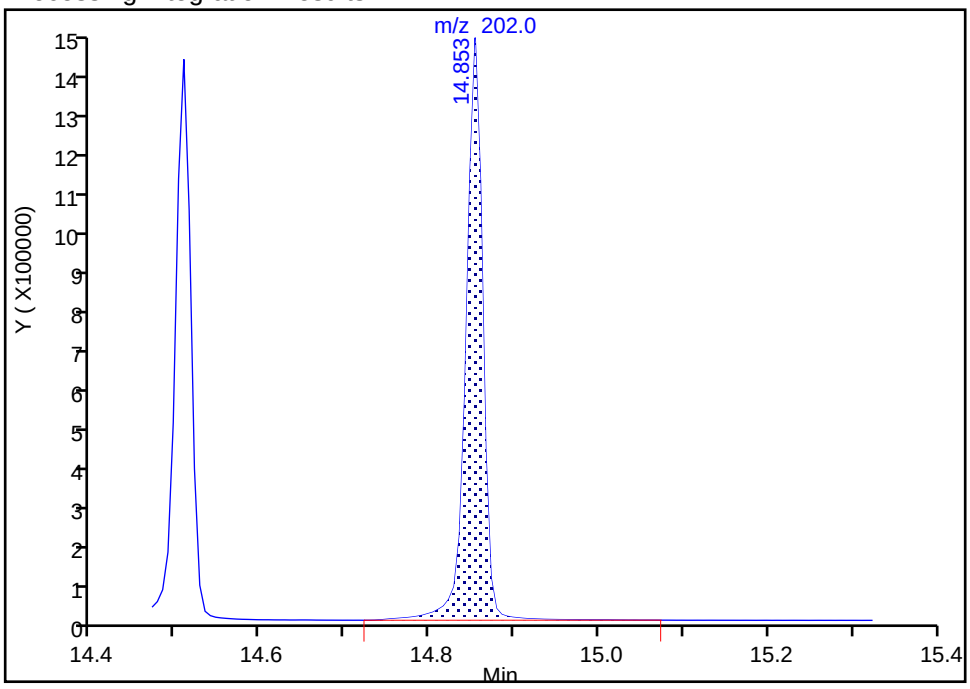
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D				
Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

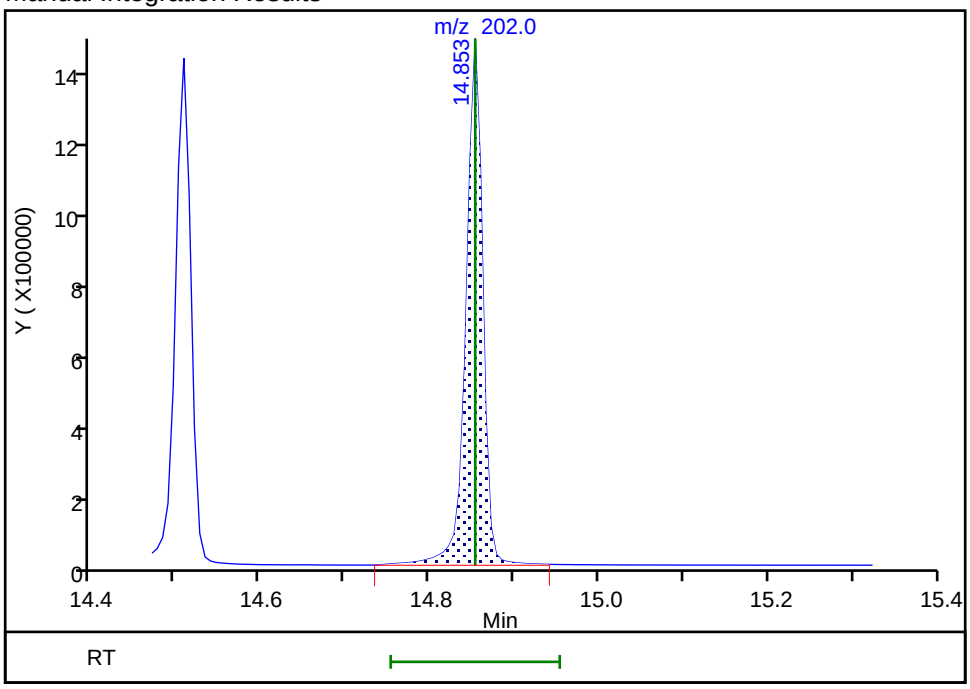
Processing Integration Results

RT: 14.85
Area: 2061120
Amount: 0.482128
Amount Units: ug/ml



Manual Integration Results

RT: 14.85
Area: 2062273
Amount: 0.482397
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:52:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

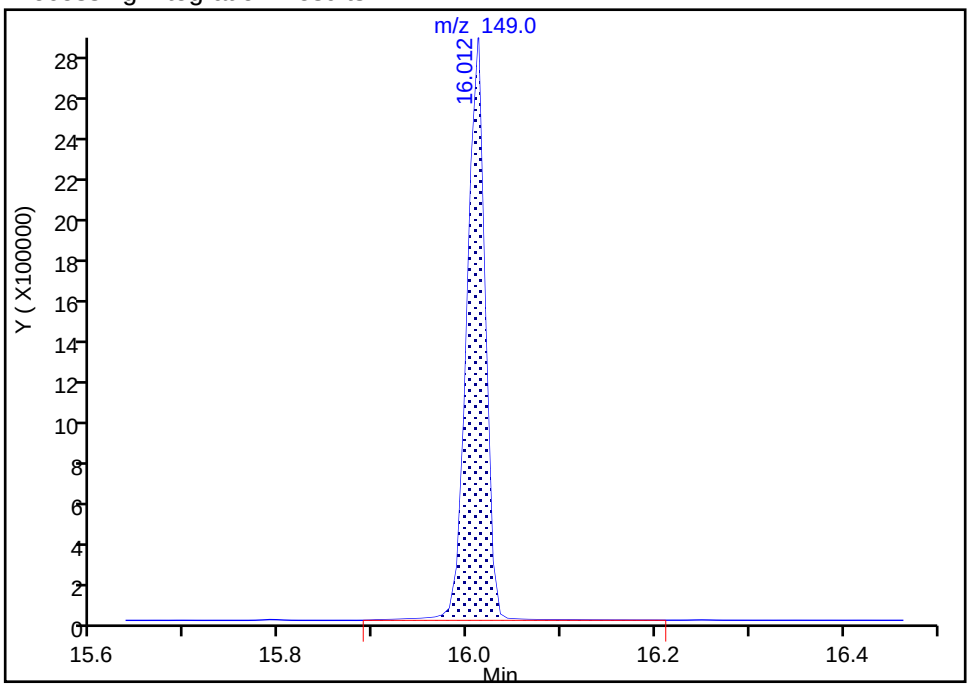
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D				
Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

27 Butyl benzyl phthalate, CAS: 85-68-7

Signal: 1

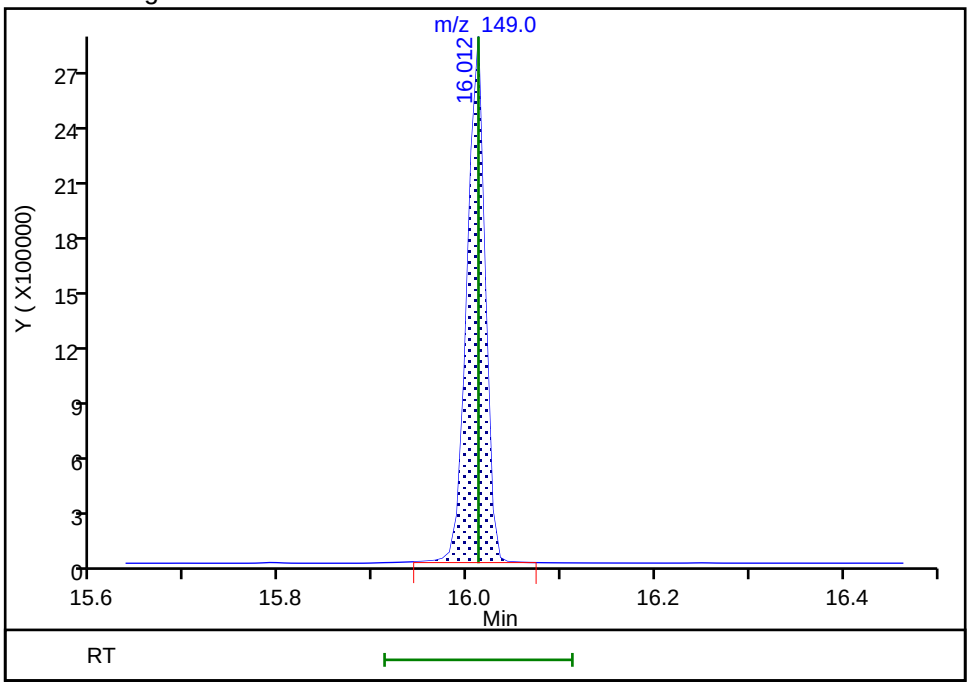
Processing Integration Results

RT: 16.01
Area: 3855457
Amount: 2.620930
Amount Units: ug/ml



Manual Integration Results

RT: 16.01
Area: 3805825
Amount: 2.587190
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:52:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

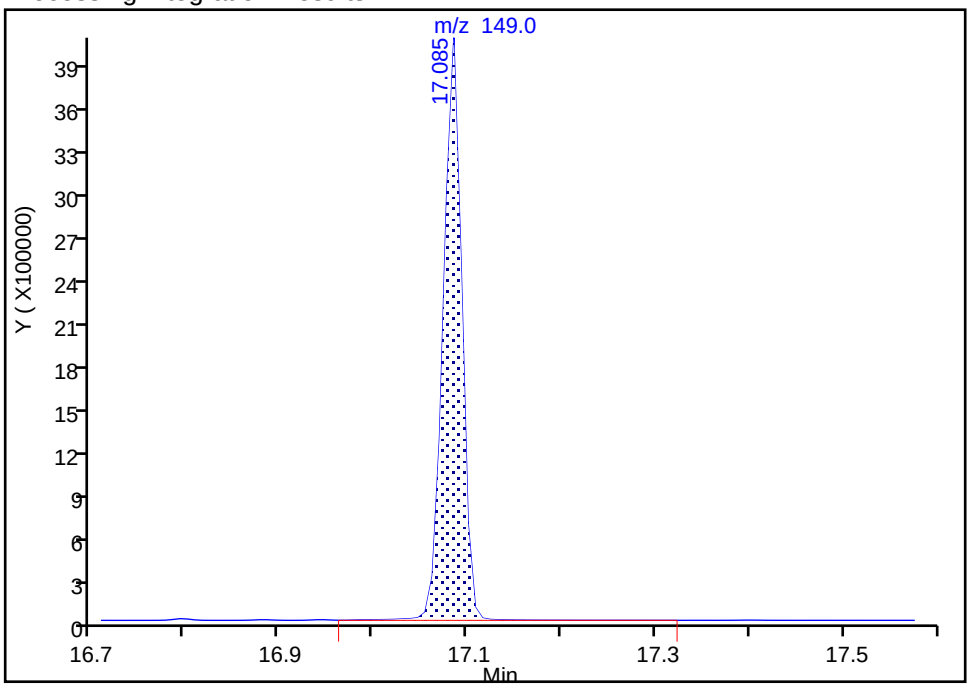
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D				
Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

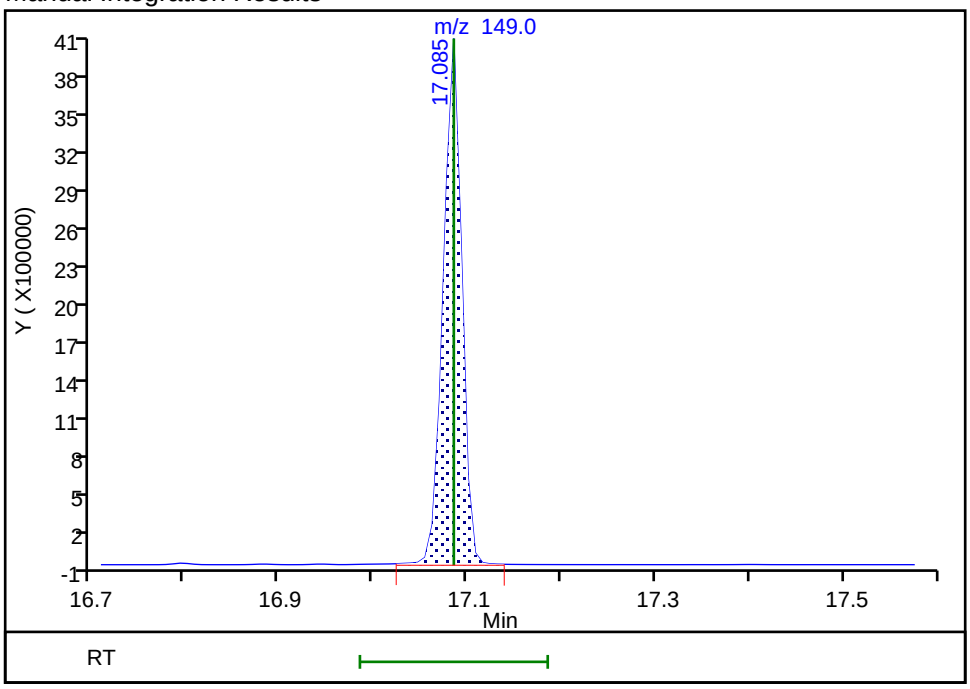
Processing Integration Results

RT: 17.09
Area: 5543729
Amount: 2.754046
Amount Units: ug/ml



Manual Integration Results

RT: 17.09
Area: 5552912
Amount: 2.758608
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:53:02

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

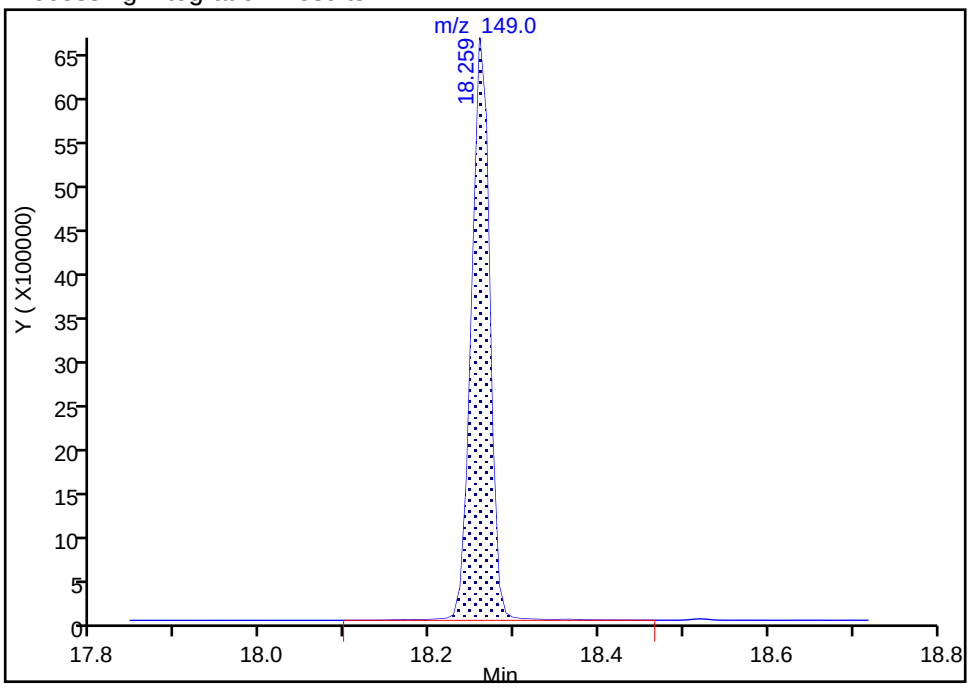
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D				
Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 1

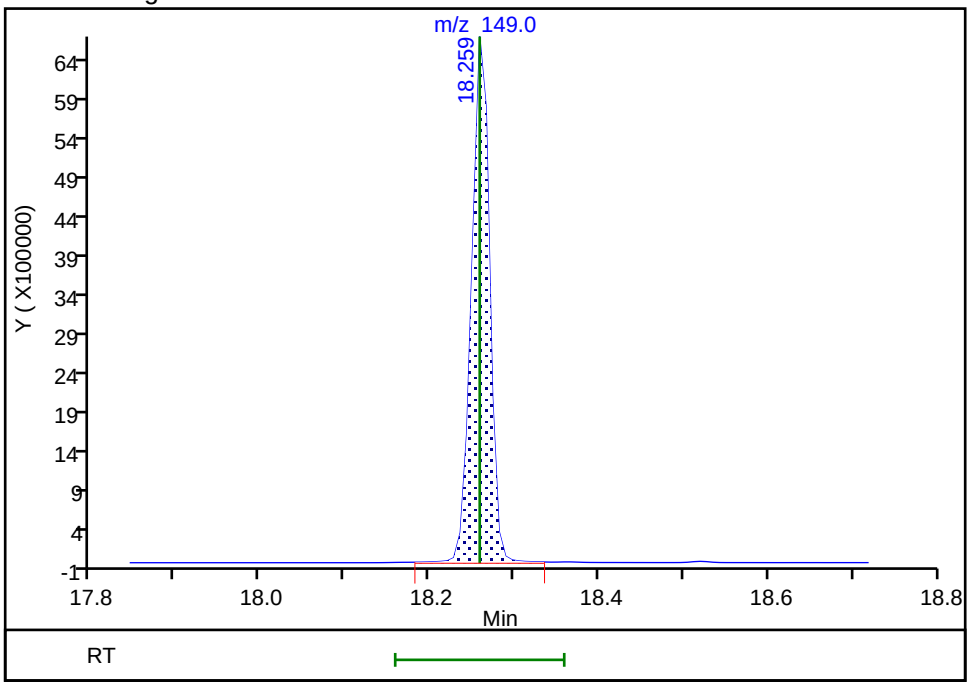
Processing Integration Results

RT: 18.26
Area: 9845313
Amount: 2.843099
Amount Units: ug/ml



Manual Integration Results

RT: 18.26
Area: 9865150
Amount: 2.848828
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:53:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

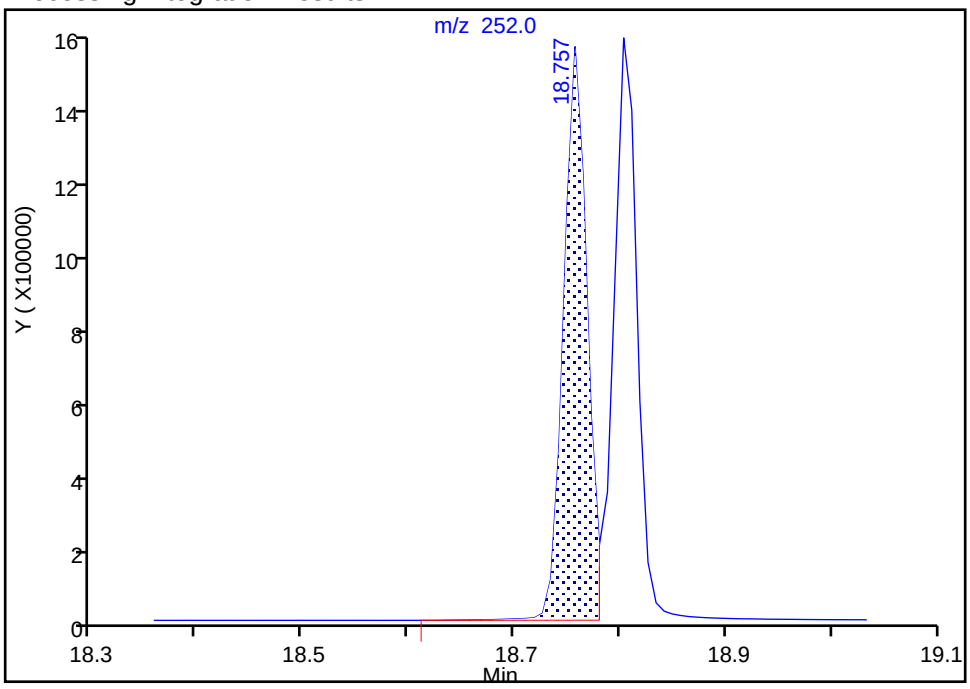
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D
Injection Date: 01-Jul-2021 19:13:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

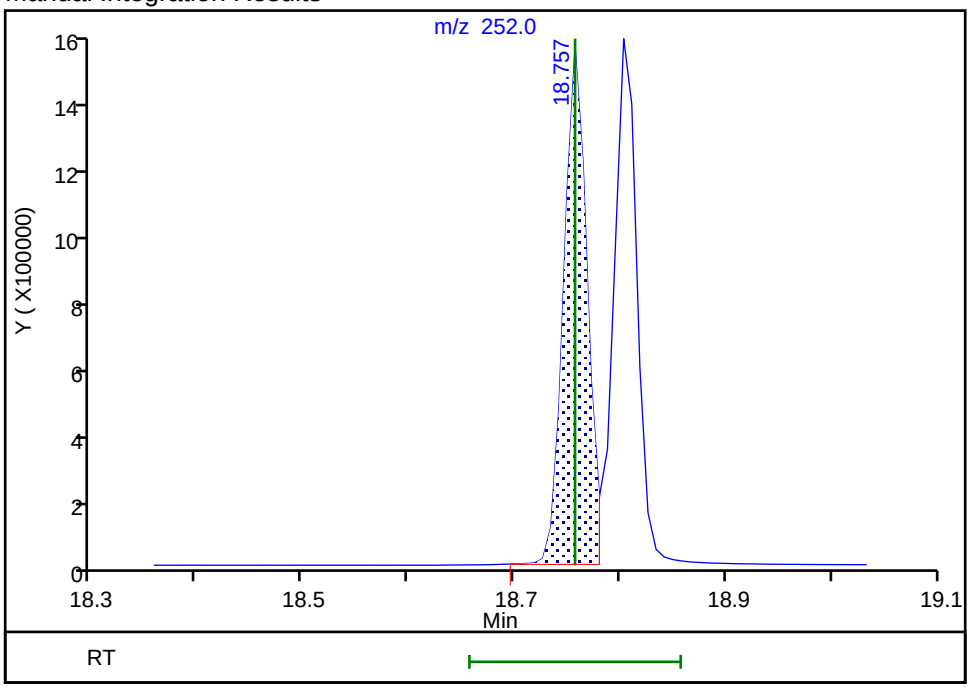
Processing Integration Results

RT: 18.76
Area: 2293839
Amount: 0.493262
Amount Units: ug/ml



Manual Integration Results

RT: 18.76
Area: 2278649
Amount: 0.489996
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:53:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

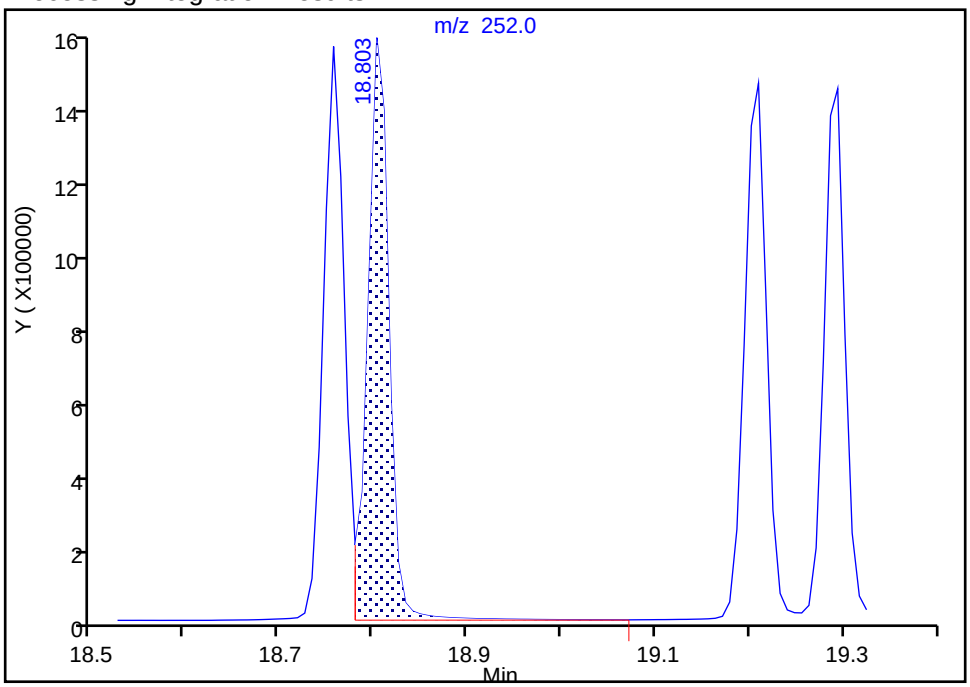
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Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

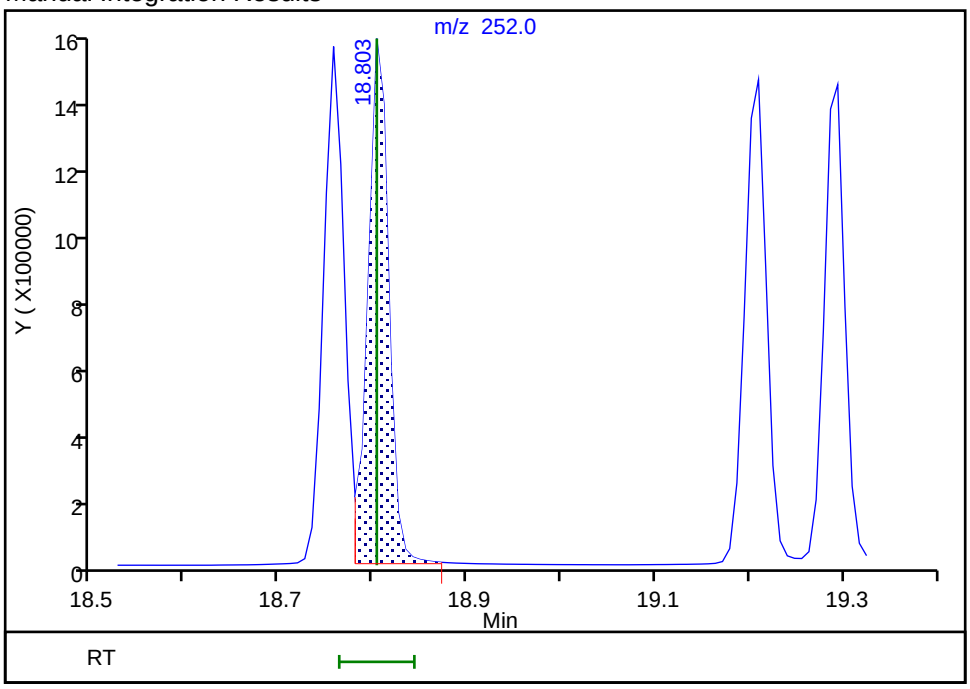
Processing Integration Results

RT: 18.80
Area: 2361552
Amount: 0.513945
Amount Units: ug/ml



Manual Integration Results

RT: 18.80
Area: 2311227
Amount: 0.502993
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:53:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

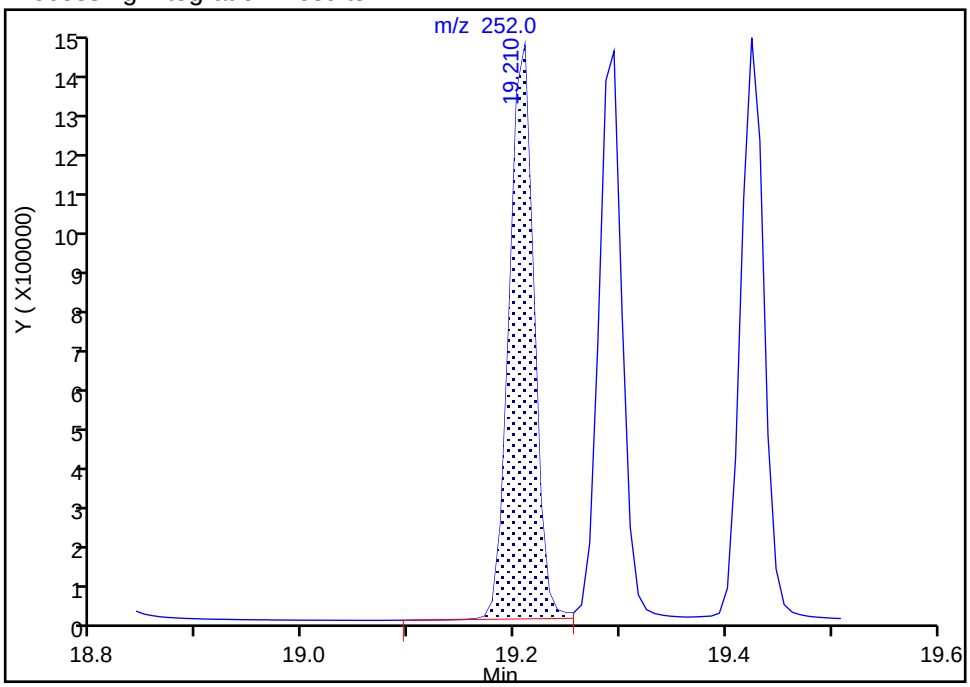
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Injection Date: 01-Jul-2021 19:13:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

35 Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

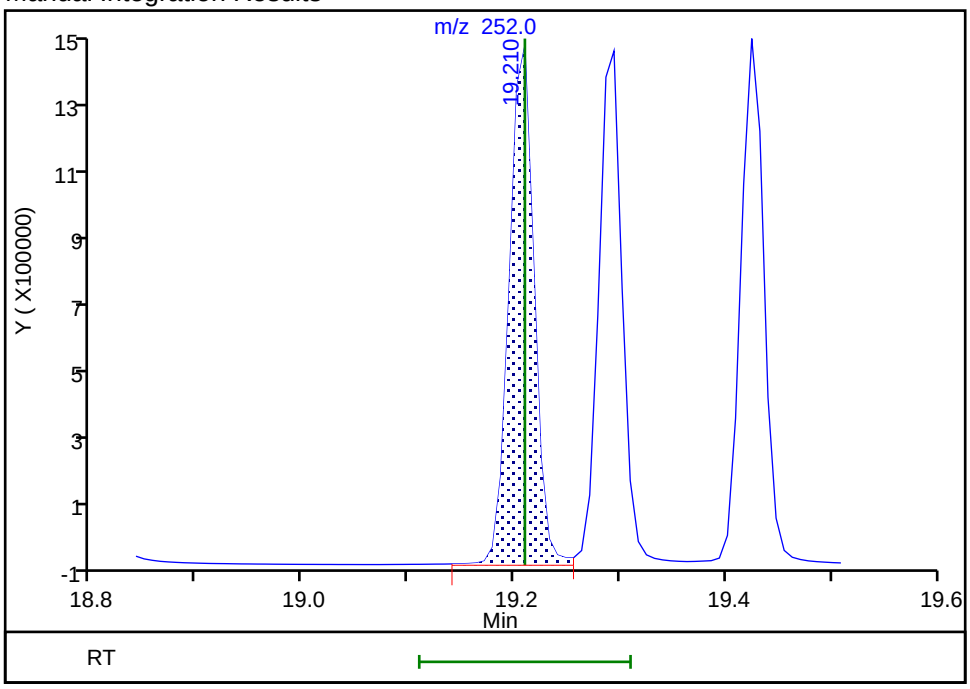
Processing Integration Results

RT: 19.21
Area: 2276082
Amount: 0.512905
Amount Units: ug/ml



Manual Integration Results

RT: 19.21
Area: 2310849
Amount: 0.520739
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:54:13
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

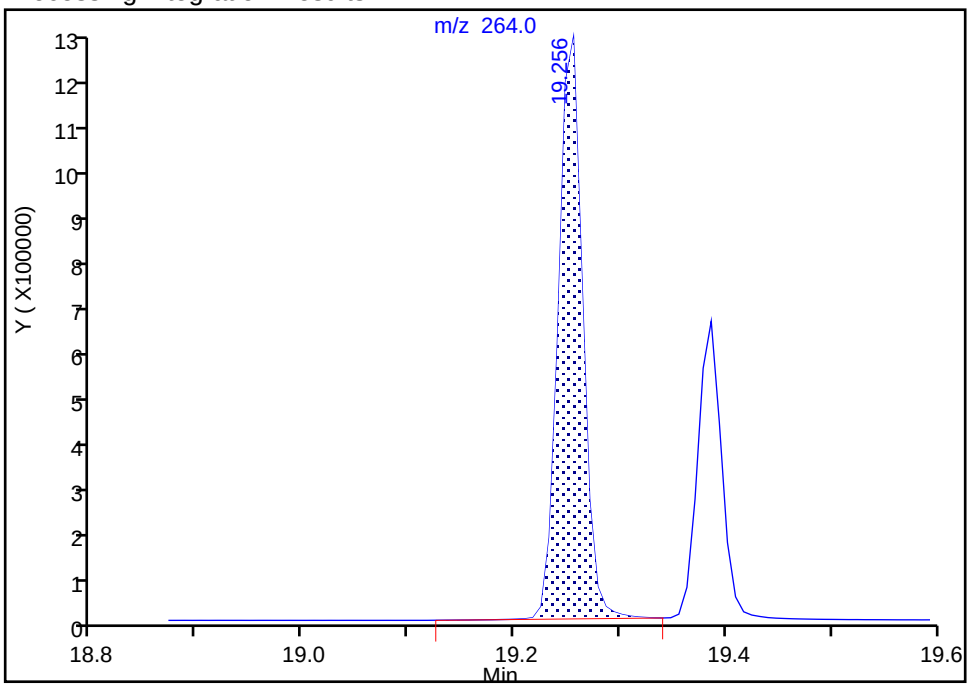
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D
Injection Date: 01-Jul-2021 19:13:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

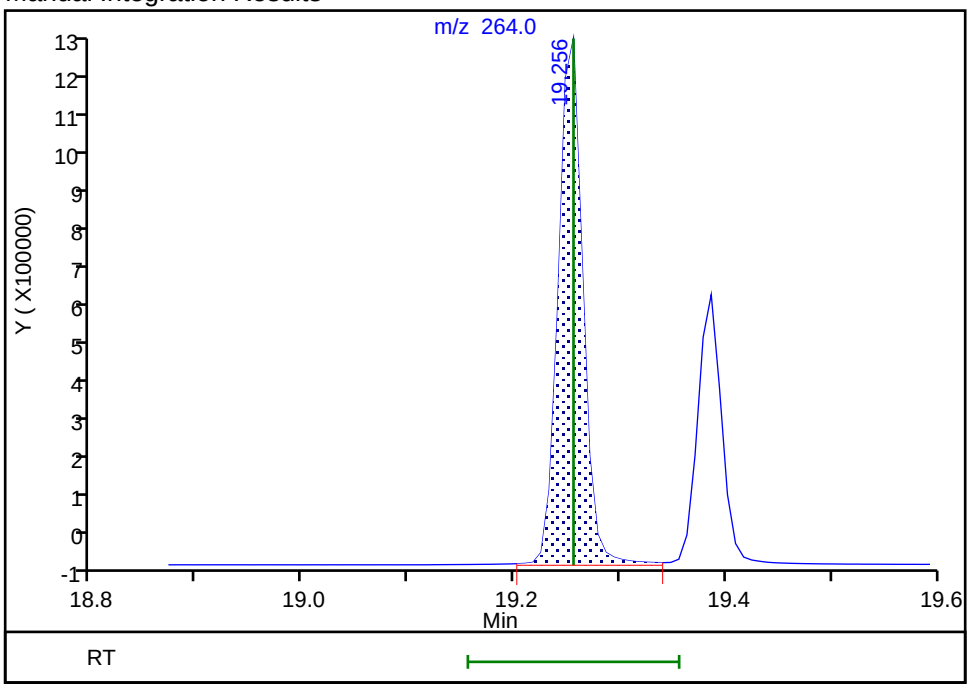
Processing Integration Results

RT: 19.26
Area: 1947034
Amount: 0.539506
Amount Units: ug/ml



Manual Integration Results

RT: 19.26
Area: 1982603
Amount: 0.549362
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:54:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

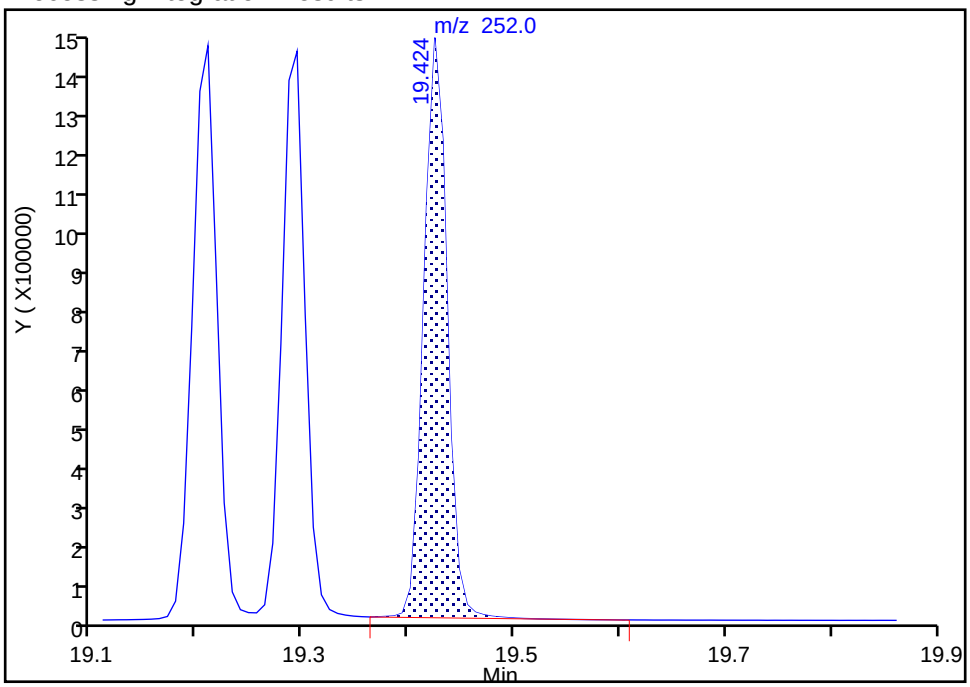
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D
Injection Date: 01-Jul-2021 19:13:30 Instrument ID: HP23263
Lims ID: CCVIS
Client ID:
Operator ID: art12405 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

39 Perylene, CAS: 198-55-0

Signal: 1

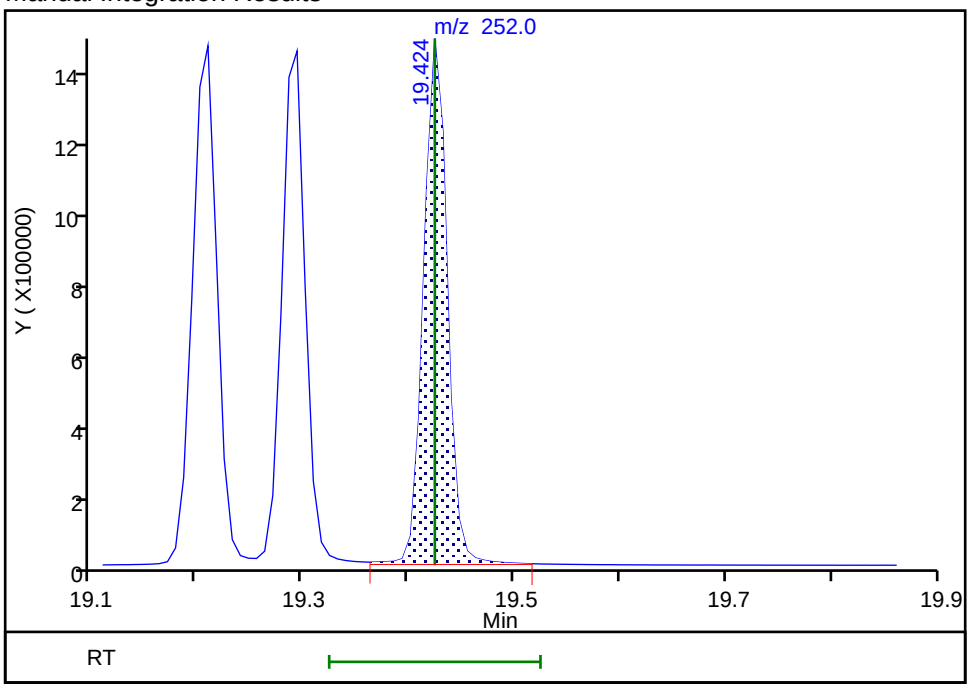
Processing Integration Results

RT: 19.42
Area: 2178019
Amount: 0.506981
Amount Units: ug/ml



Manual Integration Results

RT: 19.42
Area: 2211854
Amount: 0.514857
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 19:56:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

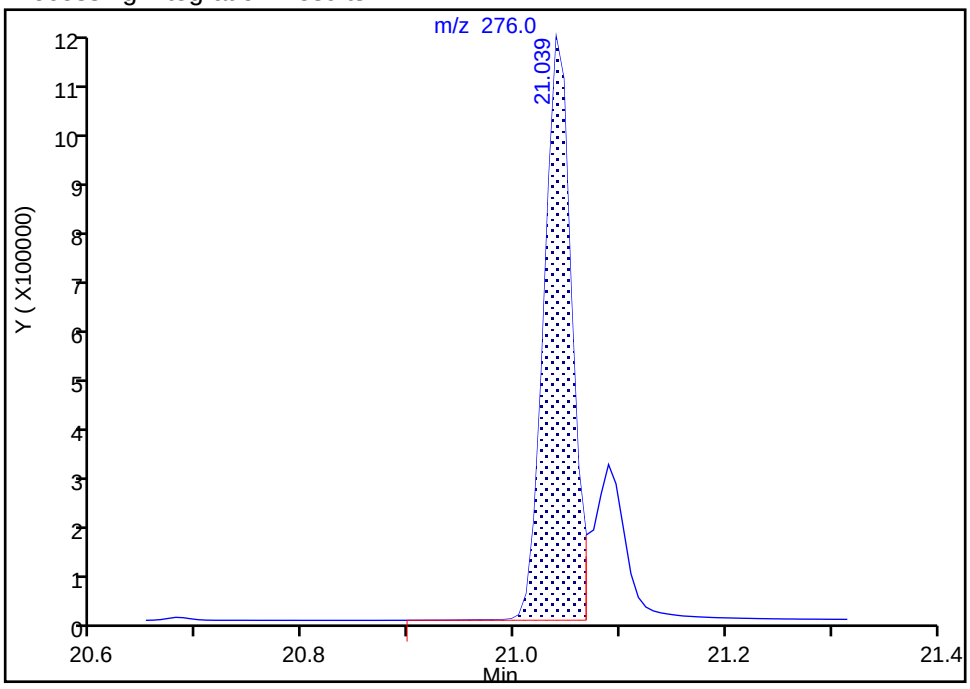
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0101.D				
Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

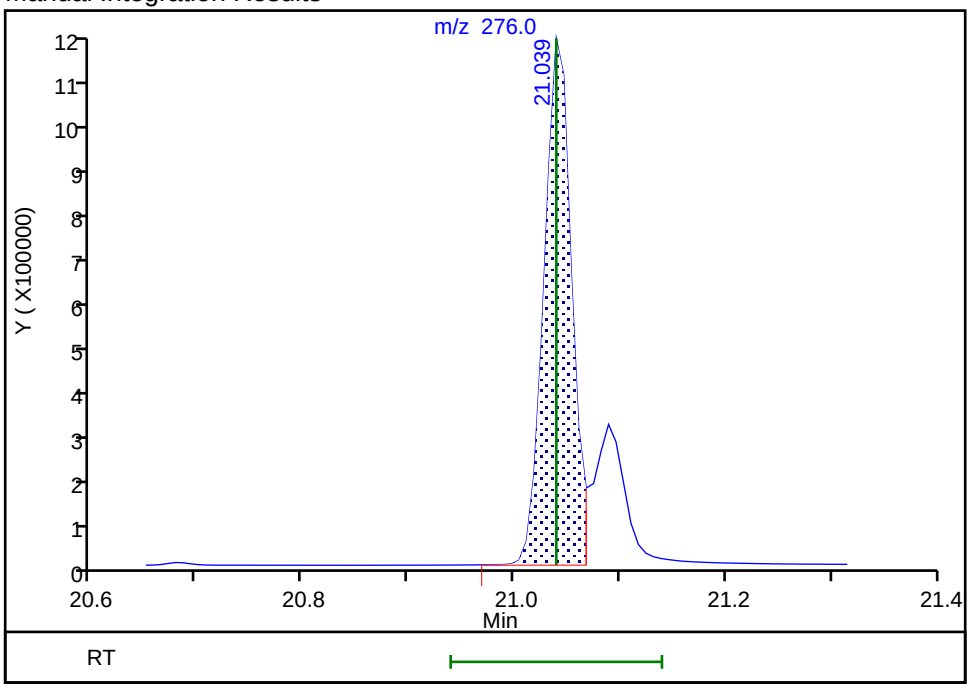
Processing Integration Results

RT: 21.04
Area: 2113112
Amount: 0.646173
Amount Units: ug/ml



Manual Integration Results

RT: 21.04
Area: 2112315
Amount: 0.645930
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 20:01:20

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

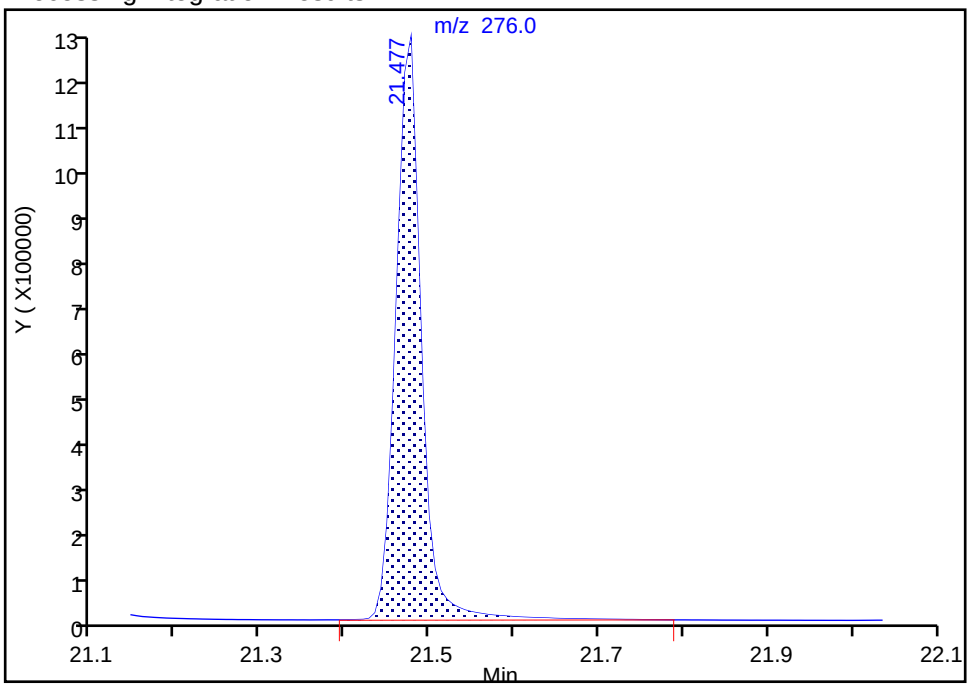
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Injection Date:	01-Jul-2021 19:13:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

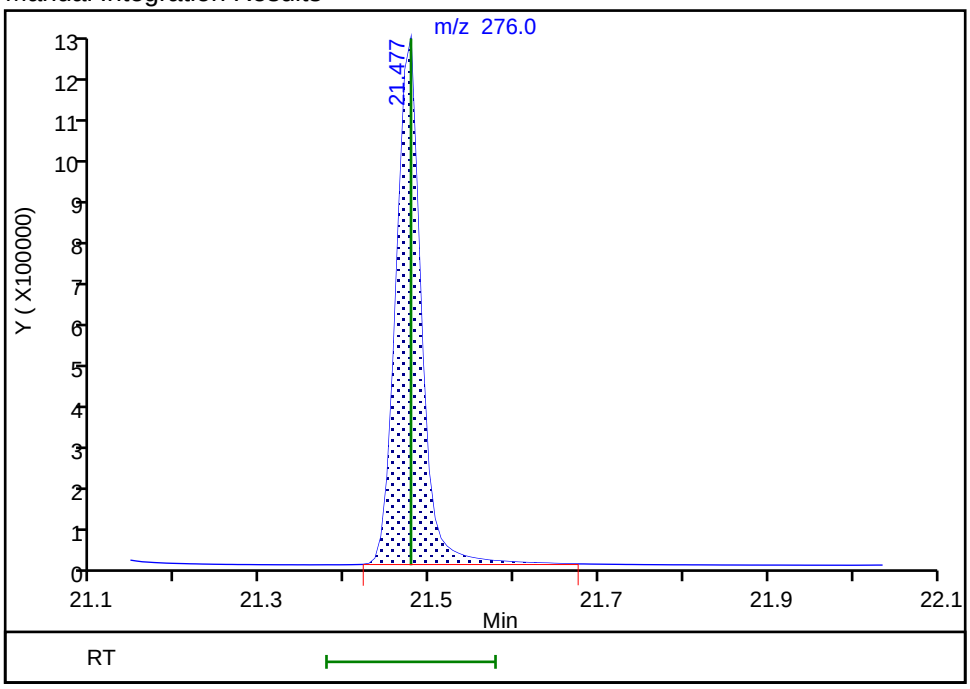
Processing Integration Results

RT: 21.48
Area: 2521638
Amount: 0.632241
Amount Units: ug/ml



Manual Integration Results

RT: 21.48
Area: 2495856
Amount: 0.625777
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 20:01:58
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145058/2 Calibration Date: 07/05/2021 08:44

Instrument ID: HP23263 Calib Start Date: 06/22/2021 06:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/22/2021 09:12

Lab File ID: NG0261.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4082	0.4005		0.491	0.500	-1.9	20.0
N-Nitrosodimethylamine	Ave	0.4096	0.4193		0.512	0.500	2.4	20.0
Bis(2-chloroethyl)ether	Ave	0.3001	0.2838		0.473	0.500	-5.4	20.0
Naphthalene	Ave	1.030	1.013		0.492	0.500	-1.6	20.0
Quinoline	Ave	0.6413	0.6275		0.489	0.500	-2.2	20.0
2-Methylnaphthalene	Ave	0.7008	0.6973		0.497	0.500	-0.5	20.0
1-Methylnaphthalene	Ave	0.6553	0.6656		0.508	0.500	1.6	20.0
Dimethylphthalate	Ave	1.200	1.178		2.45	2.50	-1.8	20.0
Acenaphthylene	Ave	1.923	1.914		0.498	0.500	-0.5	20.0
Acenaphthene	Ave	1.115	1.094		0.491	0.500	-1.9	20.0
Dibenzofuran	Ave	1.875	1.853		0.494	0.500	-1.2	20.0
Diethylphthalate	Ave	1.180	1.115		2.36	2.50	-5.5	20.0
Fluorene	Ave	1.433	1.386		0.484	0.500	-3.3	20.0
N-Nitrosodiphenylamine	Ave	0.4538	0.4703		0.518	0.500	3.6	20.0
Hexachlorobenzene	Ave	0.3323	0.3306		0.498	0.500	-0.5	20.0
Phenanthrene	Ave	1.132	1.105		0.488	0.500	-2.4	20.0
Anthracene	Ave	0.996	1.025		0.515	0.500	3.0	20.0
Di-n-butyl phthalate	Ave	0.9047	0.9683		2.68	2.50	7.0	20.0
Fluoranthene	Ave	1.182	1.180		0.499	0.500	-0.2	20.0
Pyrene	Ave	1.261	1.189		0.471	0.500	-5.7	20.0
Butylbenzylphthalate	Ave	0.4340	0.4574		2.63	2.50	5.4	20.0
Benzo[a]anthracene	Ave	1.231	1.197		0.486	0.500	-2.8	20.0
Chrysene	Ave	1.160	1.170		0.505	0.500	0.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5939	0.6496		2.73	2.50	9.4	20.0
Di-n-octyl phthalate	Ave	0.8854	0.9824		2.77	2.50	11.0	20.0
Benzo[b]fluoranthene	Ave	1.189	1.153		0.485	0.500	-3.1	20.0
Benzo[k]fluoranthene	Ave	1.175	1.216		0.518	0.500	3.5	20.0
Benzo[e]pyrene	Ave	1.135	1.159		0.511	0.500	2.2	20.0
Benzo[a]pyrene	Ave	1.034	1.077		0.521	0.500	4.2	20.0
Perylene	Ave	1.098	1.123		0.511	0.500	2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8361	1.092		0.653	0.500	30.6*	20.0
Dibenz(a,h)anthracene	Lin1		1.246		0.626	0.500	25.1*	20.0
Benzo[g,h,i]perylene	Ave	1.020	1.298		0.636	0.500	27.2*	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5325	0.5386		0.506	0.500	1.2	20.0
Fluoranthene-d10 (Surr)	Ave	1.029	1.069		0.519	0.500	3.9	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9227	0.9896		0.536	0.500	7.2	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0261.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Jul-2021 08:44:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033536-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jul-2021 09:19:01 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 05-Jul-2021 09:18:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.661	2.661	0.000	100	198909	0.5000	0.4906	
2 N-Nitrosodimethylamine	74	2.919	2.919	0.000	85	208240	0.5000	0.5119	
3 Bis(2-chloroethyl)ether	93	5.691	5.691	0.000	94	491236	0.5000	0.4729	
* 4 1,4-Dichlorobenzene-d4	152	6.053	6.053	0.000	87	248295	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.028	8.028	0.000	100	865400	0.2500	0.2500	
6 Naphthalene	128	8.053	8.053	0.000	100	1753941	0.5000	0.4919	
7 Quinoline	129	8.590	8.590	0.000	96	1086002	0.5000	0.4892	
8 2-Methylnaphthalene	142	9.185	9.185	0.000	99	1206920	0.5000	0.4975	
$ 9 1-Methylnaphthalene-d10	152	9.276	9.276	0.000	99	932256	0.5000	0.5058	
10 1-Methylnaphthalene	142	9.336	9.336	0.000	99	1152041	0.5000	0.5079	
11 Dimethyl phthalate	163	10.507	10.507	0.000	98	5513882	2.50	2.45	
12 Acenaphthylene	152	10.638	10.638	0.000	68	1792697	0.5000	0.4977	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	97	468201	0.2500	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	91	1024082	0.5000	0.4905	
15 Dibenzofuran	168	11.179	11.179	0.000	70	1735104	0.5000	0.4942	
16 Diethyl phthalate	149	11.541	11.541	0.000	100	5222385	2.50	2.36	
17 Fluorene	166	11.626	11.626	0.000	100	1298128	0.5000	0.4836	
18 N-Nitrosodiphenylamine	169	11.803	11.803	0.000	96	844758	0.5000	0.5182	
19 Hexachlorobenzene	284	12.297	12.297	0.000	87	593943	0.5000	0.4975	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	898194	0.2500	0.2500	
21 Phenanthrene	178	12.815	12.815	0.000	100	1985464	0.5000	0.4880	
22 Anthracene	178	12.884	12.884	0.000	100	1842143	0.5000	0.5150	
23 Di-n-butyl phthalate	149	13.625	13.625	0.000	100	8696850	2.50	2.68	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.452	0.000	97	1919504	0.5000	0.5193	
25 Fluoranthene	202	14.477	14.477	0.000	97	2119526	0.5000	0.4991	
26 Pyrene	202	14.822	14.822	0.000	96	2325067	0.5000	0.4713	
27 Butyl benzyl phthalate	149	15.981	15.981	0.000	100	4472570	2.50	2.63	
28 Benzo[a]anthracene	228	16.848	16.848	0.000	99	2340501	0.5000	0.4860	
* 29 Chrysene-d12	240	16.863	16.863	0.000	85	977764	0.2500	0.2500	
30 Chrysene	228	16.909	16.909	0.000	100	2288799	0.5000	0.5046	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.047	17.047	0.000	99	6351873	2.50	2.73	
32 Di-n-octyl phthalate	149	18.220	18.220	0.000	100	11132147	2.50	2.77	
33 Benzo[b]fluoranthene	252	18.719	18.719	0.000	100	2612087	0.5000	0.4847	
34 Benzo[k]fluoranthene	252	18.765	18.765	0.000	100	2756196	0.5000	0.5176	
35 Benzo[e]pyrene	252	19.171	19.171	0.000	100	2626941	0.5000	0.5108	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.217	19.217	0.000	96	2242766	0.5000	0.5362	
37 Benzo[a]pyrene	252	19.256	19.256	0.000	100	2440972	0.5000	0.5210	
* 38 Perylene-d12	264	19.348	19.348	0.000	94	1133179	0.2500	0.2500	
39 Perylene	252	19.386	19.386	0.000	100	2544867	0.5000	0.5112	
40 Indeno[1,2,3-cd]pyrene	276	20.997	20.997	0.000	94	2474078	0.5000	0.6528	
41 Dibenz(a,h)anthracene	278	21.047	21.047	0.000	95	2824954	0.5000	0.6256	
42 Benzo[g,h,i]perylene	276	21.428	21.428	0.000	95	2940627	0.5000	0.6362	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

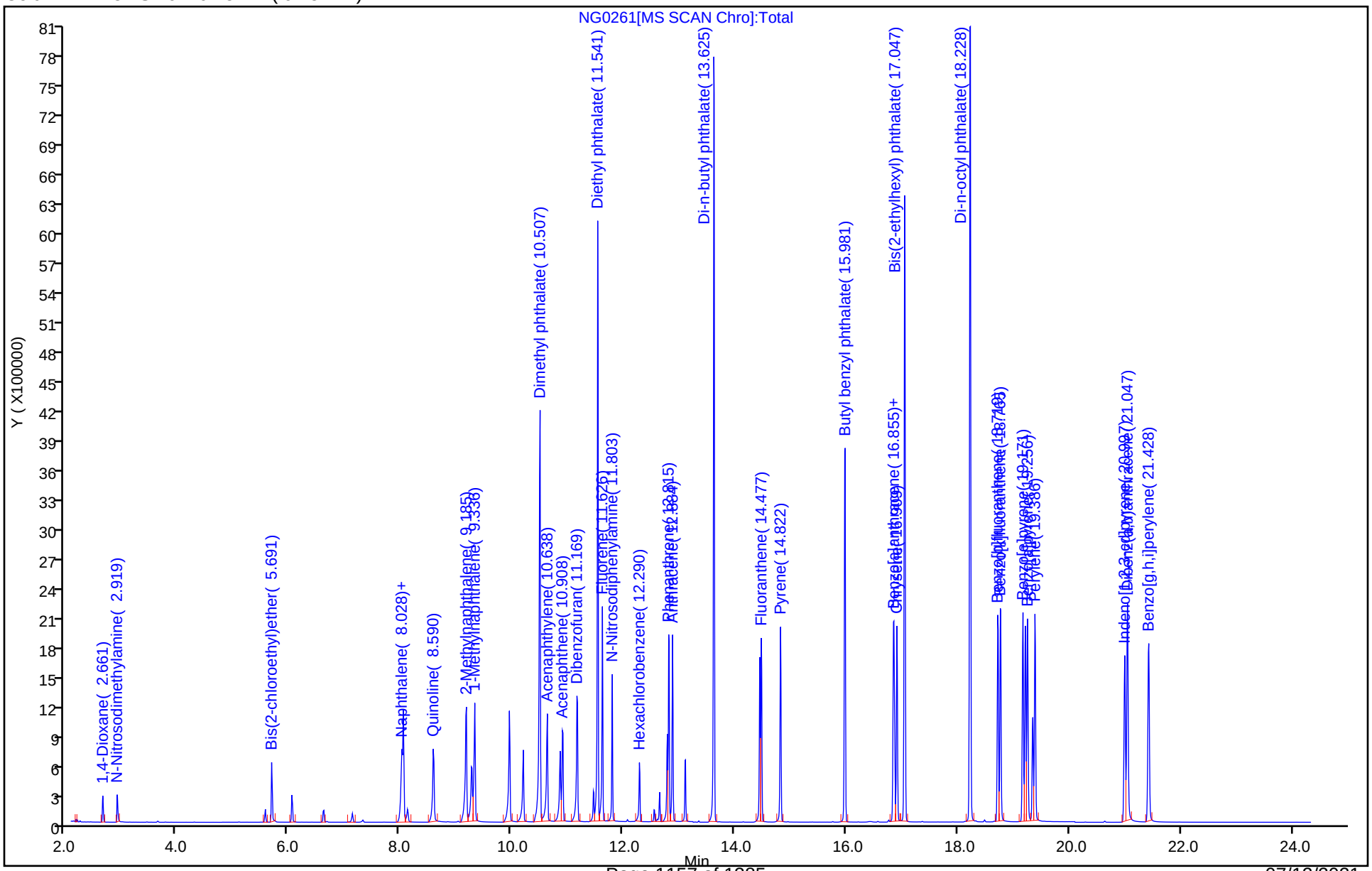
Report Date: 05-Jul-2021 09:19:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0261.D

Injection Date:	05-Jul-2021 08:44:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Lab Sample ID: CCVIS 410-145132/2 Calibration Date: 07/06/2021 06:14

Instrument ID: HP23263 Calib Start Date: 06/22/2021 06:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/22/2021 09:12

Lab File ID: NG0371.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4082	0.3928		0.481	0.500	-3.8	20.0
N-Nitrosodimethylamine	Ave	0.4096	0.4210		0.514	0.500	2.8	20.0
Bis(2-chloroethyl)ether	Ave	0.3001	0.2746		0.458	0.500	-8.5	20.0
Naphthalene	Ave	1.030	0.998		0.484	0.500	-3.2	20.0
Quinoline	Ave	0.6413	0.6172		0.481	0.500	-3.8	20.0
2-Methylnaphthalene	Ave	0.7008	0.6874		0.490	0.500	-1.9	20.0
1-Methylnaphthalene	Ave	0.6553	0.6475		0.494	0.500	-1.2	20.0
Dimethylphthalate	Ave	1.200	1.170		2.44	2.50	-2.5	20.0
Acenaphthylene	Ave	1.923	1.900		0.494	0.500	-1.2	20.0
Acenaphthene	Ave	1.115	1.110		0.498	0.500	-0.4	20.0
Dibenzofuran	Ave	1.875	1.832		0.489	0.500	-2.3	20.0
Diethylphthalate	Ave	1.180	1.151		2.44	2.50	-2.5	20.0
Fluorene	Ave	1.433	1.360		0.474	0.500	-5.1	20.0
N-Nitrosodiphenylamine	Ave	0.4538	0.4726		0.521	0.500	4.2	20.0
Hexachlorobenzene	Ave	0.3323	0.3342		0.503	0.500	0.6	20.0
Phenanthrene	Ave	1.132	1.071		0.473	0.500	-5.5	20.0
Anthracene	Ave	0.996	1.029		0.517	0.500	3.3	20.0
Di-n-butyl phthalate	Ave	0.9047	0.9711		2.68	2.50	7.3	20.0
Fluoranthene	Ave	1.182	1.208		0.511	0.500	2.2	20.0
Pyrene	Ave	1.261	1.150		0.456	0.500	-8.9	20.0
Butylbenzylphthalate	Ave	0.4340	0.4519		2.60	2.50	4.1	20.0
Benzo[a]anthracene	Ave	1.231	1.216		0.494	0.500	-1.2	20.0
Chrysene	Ave	1.160	1.203		0.519	0.500	3.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5939	0.6495		2.73	2.50	9.4	20.0
Di-n-octyl phthalate	Ave	0.8854	0.9905		2.80	2.50	11.9	20.0
Benzo[b]fluoranthene	Ave	1.189	1.183		0.497	0.500	-0.5	20.0
Benzo[k]fluoranthene	Ave	1.175	1.240		0.528	0.500	5.6	20.0
Benzo[e]pyrene	Ave	1.135	1.159		0.511	0.500	2.1	20.0
Benzo[a]pyrene	Ave	1.034	1.102		0.533	0.500	6.6	20.0
Perylene	Ave	1.098	1.113		0.507	0.500	1.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8361	0.8792		0.526	0.500	5.2	20.0
Dibenz(a,h)anthracene	Lin1		0.9813		0.494	0.500	-1.2	20.0
Benzo[g,h,i]perylene	Ave	1.020	0.9672		0.474	0.500	-5.1	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5325	0.5192		0.488	0.500	-2.5	20.0
Fluoranthene-d10 (Surr)	Ave	1.029	1.050		0.510	0.500	2.1	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9227	1.002		0.543	0.500	8.6	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0371.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2021 06:14:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0033556-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 06:47:02 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: gamblerj Date: 06-Jul-2021 06:46:58

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.661	2.661	0.000	98	169913	0.5000	0.4810	
	2 N-Nitrosodimethylamine	74	2.919	2.919	0.000	88	182136	0.5000	0.5139	
	3 Bis(2-chloroethyl)ether	93	5.691	5.691	0.000	92	418511	0.5000	0.4575	
*	4 1,4-Dichlorobenzene-d4	152	6.053	6.053	0.000	87	216299	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.027	8.027	0.000	100	762103	0.2500	0.2500	
	6 Naphthalene	128	8.052	8.052	0.000	100	1520458	0.5000	0.4842	
	7 Quinoline	129	8.602	8.602	0.000	99	940744	0.5000	0.4812	
	8 2-Methylnaphthalene	142	9.185	9.185	0.000	100	1047808	0.5000	0.4904	
$	9 1-Methylnaphthalene-d10	152	9.286	9.286	0.000	98	791410	0.5000	0.4875	
	10 1-Methylnaphthalene	142	9.336	9.336	0.000	99	986897	0.5000	0.4940	
	11 Dimethyl phthalate	163	10.507	10.507	0.000	99	4929850	2.50	2.44	
	12 Acenaphthylene	152	10.638	10.638	0.000	68	1601290	0.5000	0.4938	
*	13 Acenaphthene-d10	164	10.868	10.868	0.000	94	421441	0.2500	0.2500	
	14 Acenaphthene	154	10.918	10.918	0.000	92	935834	0.5000	0.4980	
	15 Dibenzofuran	168	11.178	11.178	0.000	72	1544346	0.5000	0.4887	
	16 Diethyl phthalate	149	11.548	11.548	0.000	97	4849682	2.50	2.44	
	17 Fluorene	166	11.626	11.626	0.000	100	1146303	0.5000	0.4744	
	18 N-Nitrosodiphenylamine	169	11.803	11.803	0.000	98	765978	0.5000	0.5208	
	19 Hexachlorobenzene	284	12.297	12.297	0.000	89	541657	0.5000	0.5029	
*	20 Phenanthrene-d10	188	12.792	12.792	0.000	100	810356	0.2500	0.2500	
	21 Phenanthrene	178	12.822	12.822	0.000	100	1735250	0.5000	0.4727	
	22 Anthracene	178	12.884	12.884	0.000	100	1667389	0.5000	0.5167	
	23 Di-n-butyl phthalate	149	13.631	13.631	0.000	100	7869576	2.50	2.68	
$	24 Fluoranthene-d10 (Surr)	212	14.452	14.452	0.000	98	1701937	0.5000	0.5104	
	25 Fluoranthene	202	14.484	14.484	0.000	97	1958385	0.5000	0.5111	
	26 Pyrene	202	14.828	14.828	0.000	95	2035902	0.5000	0.4557	
	27 Butyl benzyl phthalate	149	15.981	15.981	0.000	100	4001268	2.50	2.60	
	28 Benzo[a]anthracene	228	16.855	16.855	0.000	100	2153369	0.5000	0.4938	
*	29 Chrysene-d12	240	16.870	16.870	0.000	100	885525	0.2500	0.2500	
	30 Chrysene	228	16.917	16.917	0.000	100	2130748	0.5000	0.5186	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.055	17.055	0.000	99	5751046	2.50	2.73	
32 Di-n-octyl phthalate	149	18.228	18.228	0.000	100	10322471	2.50	2.80	
33 Benzo[b]fluoranthene	252	18.727	18.727	0.000	100	2465381	0.5000	0.4974	
34 Benzo[k]fluoranthene	252	18.773	18.773	0.000	100	2584990	0.5000	0.5279	
35 Benzo[e]pyrene	252	19.179	19.179	0.000	100	2414825	0.5000	0.5106	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.225	19.225	0.000	96	2088019	0.5000	0.5429	
37 Benzo[a]pyrene	252	19.263	19.263	0.000	100	2296835	0.5000	0.5331	
* 38 Perylene-d12	264	19.355	19.355	0.000	94	1042104	0.2500	0.2500	
39 Perylene	252	19.394	19.394	0.000	100	2319808	0.5000	0.5067	
40 Indeno[1,2,3-cd]pyrene	276	21.004	21.004	0.000	95	1832489	0.5000	0.5258	
41 Dibenz(a,h)anthracene	278	21.054	21.054	0.000	95	2045245	0.5000	0.4939	
42 Benzo[g,h,i]perylene	276	21.435	21.435	0.000	95	2015910	0.5000	0.4743	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00016 Amount Added: 1.00 Units: mL

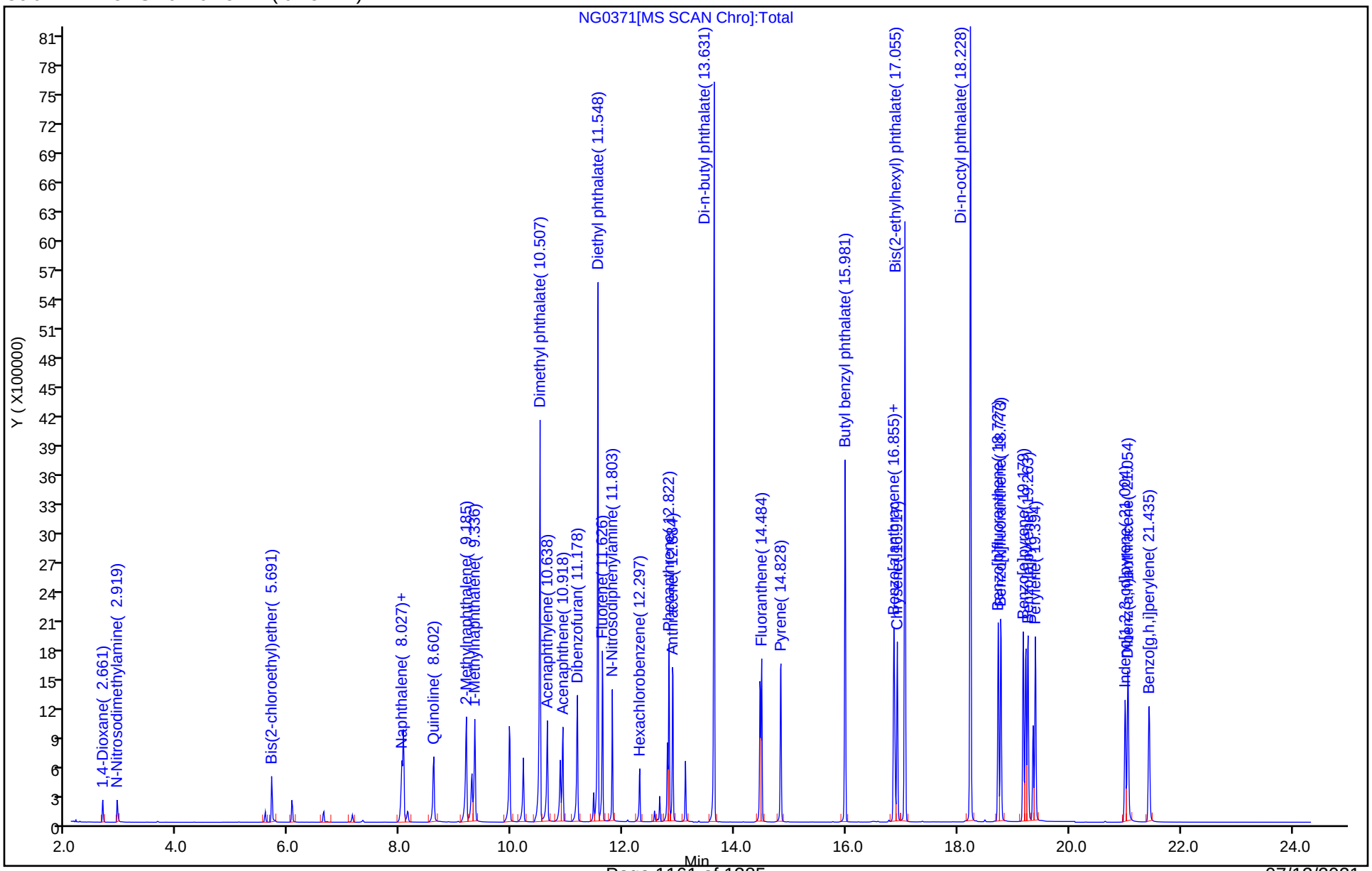
Report Date: 06-Jul-2021 06:47:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0371.D

Injection Date:	06-Jul-2021 06:14:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 03-Jun-2021 08:59:18 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0030970-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jun-2021 18:33:02 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 03-Jun-2021 09:50:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.825	4.825	0.000	0	812470	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.084	6.084	0.000	0	2624749	NR	NR	
47 4,4'-DDE	246	6.227	6.227	0.000	0	2550		NR	
48 4,4'-DDD	235	6.513	6.513	0.000	0	10427		NR	
49 4,4'-DDT	235	6.771	6.771	0.000	0	1547283	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

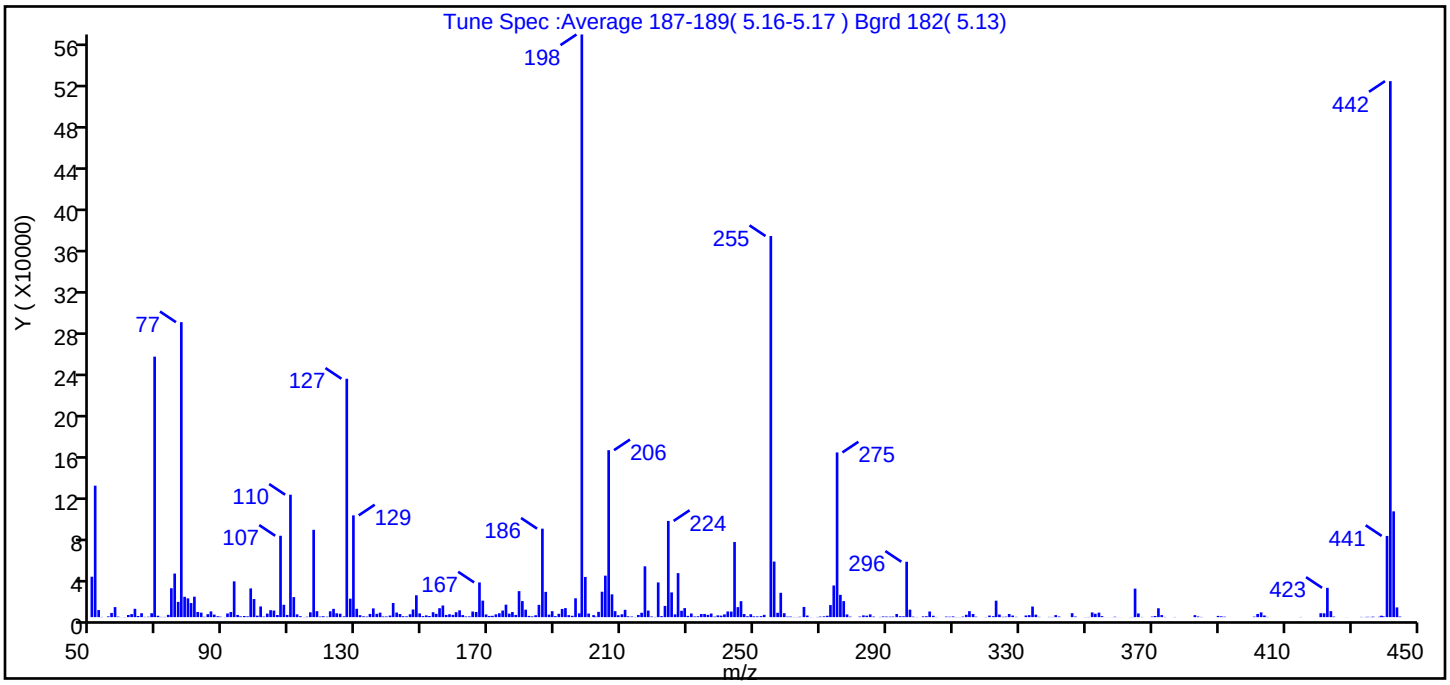
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D
Injection Date: 03-Jun-2021 08:59:18 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (108.7)
51	10-80% of the base peak	22.6
68	<2% of mass 69	0.7 (1.5)
69	Present	44.7
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	40.9
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.9
275	10-60% of the base peak	28.3
365	>1% of mass 198	4.9
441	present but <24% of mass 442	13.9 (15.2)
442	base peak, or >50% of 198	92.0
443	15-24% of mass 442	18.2 (19.7)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 03-Jun-2021 08:59:18
Spectrum: Tune Spec :Average 187-189(5.16-5.17) Bgrd 182(5.13)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 335

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	39264	135.00	8507	219.00	625	310.00	706
51.00	127672	136.00	3211	220.00	196	311.00	171
52.00	6870	137.00	4357	221.00	33712	312.00	127
53.00	216	138.00	660	222.00	980	313.00	527
55.00	742	139.00	663	223.00	10890	314.00	2290
56.00	4066	140.00	1547	224.00	93424	315.00	5820
57.00	9760	141.00	13730	225.00	24016	316.00	3030
58.00	515	142.00	4458	226.00	2710	317.00	442
59.00	51	143.00	3032	227.00	42752	320.00	156
60.00	130	144.00	895	228.00	6197	321.00	1543
61.00	2088	145.00	777	229.00	8799	322.00	924
62.00	2951	146.00	2806	230.00	1248	323.00	15979
63.00	8116	147.00	7432	231.00	3561	324.00	2529
64.00	1126	148.00	21232	232.00	637	325.00	321
65.00	3811	149.00	3625	233.00	865	326.00	489
66.00	261	150.00	1002	234.00	3039	327.00	3070
67.00	423	151.00	1713	235.00	3086	328.00	1537
68.00	3792	152.00	1111	236.00	2221	329.00	281
69.00	252928	153.00	4797	237.00	3491	332.00	1609
70.00	1356	154.00	3198	238.00	535	333.00	1947
71.00	238	155.00	8666	239.00	1725	334.00	10324
72.00	231	156.00	11313	240.00	1465	335.00	2403
73.00	2214	157.00	2160	241.00	2672	336.00	300
74.00	28072	158.00	2815	242.00	5501	339.00	249
75.00	42336	159.00	2206	243.00	5435	340.00	190
76.00	14820	160.00	4802	244.00	72944	341.00	1988
77.00	286400	161.00	6648	245.00	9733	342.00	603
78.00	19736	162.00	1973	246.00	15510	346.00	3828
79.00	18232	163.00	673	247.00	2976	347.00	581
80.00	13682	164.00	725	248.00	849	350.00	142
81.00	19872	165.00	5449	249.00	2834	351.00	203
82.00	5025	166.00	4985	250.00	736	352.00	4595
83.00	4359	167.00	33704	251.00	735	353.00	3283

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 03-Jun-2021 08:59:18
Spectrum: Tune Spec :Average 187-189(5.16-5.17) Bgrd 182(5.13)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 335

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	331	168.00	16020	252.00	989	354.00	4377
85.00	2872	169.00	2603	253.00	2208	355.00	997
86.00	5577	170.00	1177	255.00	370048	356.00	63
87.00	2446	171.00	1305	256.00	53992	357.00	64
88.00	867	172.00	2706	257.00	4219	358.00	72
89.00	457	173.00	3762	258.00	23648	359.00	406
90.00	123	174.00	6405	259.00	3815	360.00	52
91.00	3575	175.00	12116	260.00	491	361.00	62
92.00	4975	176.00	3407	261.00	539	363.00	59
93.00	34736	177.00	4994	262.00	163	364.00	134
94.00	2156	178.00	2152	263.00	158	365.00	27680
95.00	773	179.00	25248	264.00	393	366.00	3614
96.00	1119	180.00	15575	265.00	9917	367.00	210
97.00	740	181.00	7252	266.00	1549	370.00	557
98.00	27896	182.00	1237	267.00	91	371.00	1132
99.00	17576	183.00	740	268.00	48	372.00	8609
100.00	1439	184.00	1835	269.00	194	373.00	2003
101.00	10390	185.00	11915	270.00	515	374.00	223
102.00	569	186.00	85920	271.00	775	377.00	172
103.00	3424	187.00	24552	272.00	1380	383.00	1942
104.00	6764	188.00	2440	273.00	11738	384.00	685
105.00	6413	189.00	5798	274.00	30728	385.00	219
106.00	2089	190.00	966	275.00	159936	390.00	1210
107.00	79032	191.00	3244	276.00	21664	391.00	786
108.00	12000	192.00	7950	277.00	15578	392.00	429
109.00	2171	193.00	8780	278.00	2625	401.00	486
110.00	118896	194.00	1933	279.00	500	402.00	3111
111.00	19456	195.00	1320	282.00	550	403.00	4629
112.00	2687	196.00	18304	283.00	1721	404.00	1610
113.00	938	197.00	3698	284.00	1422	405.00	216
114.00	96	198.00	565760	285.00	2682	415.00	176
115.00	410	199.00	39040	286.00	556	421.00	3821
116.00	4698	200.00	3474	288.00	211	422.00	3738
117.00	84784	201.00	1990	289.00	650	423.00	28464

Report Date: 03-Jun-2021 18:33:03 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 03-Jun-2021 08:59:18
Spectrum: Tune Spec :Average 187-189(5.16-5.17) Bgrd 182(5.13)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 335

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	5787	202.00	574	290.00	557	424.00	5841
119.00	563	203.00	5119	291.00	467	425.00	552
120.00	869	204.00	24672	292.00	546	429.00	69
121.00	445	205.00	40296	293.00	3040	433.00	230
122.00	5673	206.00	162112	294.00	869	435.00	227
123.00	8067	207.00	22144	295.00	821	435.00	315
124.00	3728	208.00	5815	296.00	53784	436.00	259
125.00	3322	209.00	1881	297.00	7285	437.00	427
126.00	756	210.00	2754	298.00	514	439.00	375
127.00	231488	211.00	7118	299.00	148	439.00	1396
128.00	17936	212.00	832	301.00	736	440.00	733
129.00	98832	213.00	613	302.00	887	441.00	78856
130.00	8109	214.00	177	303.00	5488	442.00	520448
131.00	1920	215.00	2132	304.00	1341	443.00	102720
132.00	799	216.00	4254	305.00	168	444.00	9449
133.00	542	217.00	49360	308.00	557	445.00	567
134.00	3142	218.00	6374	309.00	442		

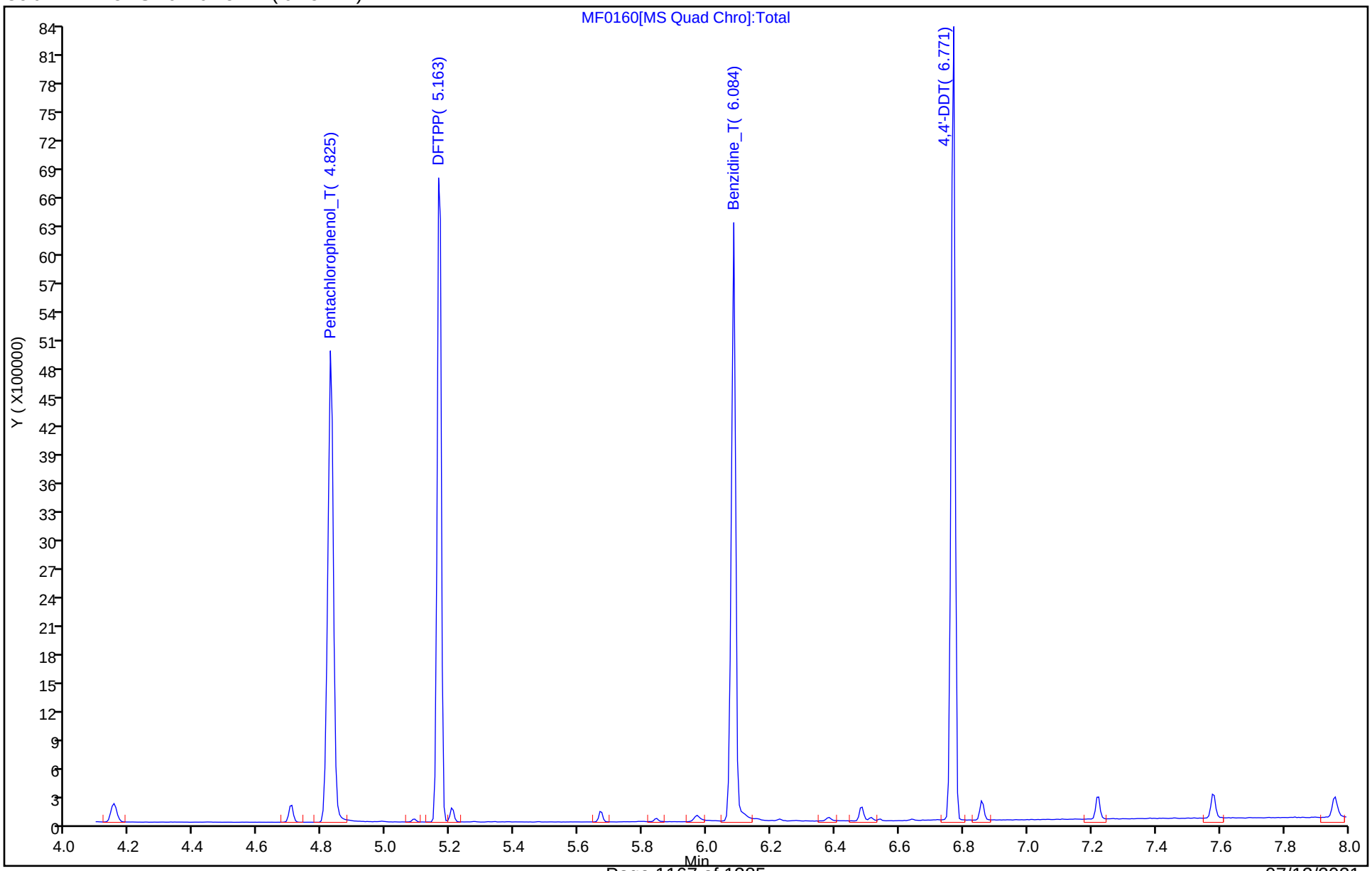
Report Date: 03-Jun-2021 18:33:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D

Injection Date:	03-Jun-2021 08:59:18	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

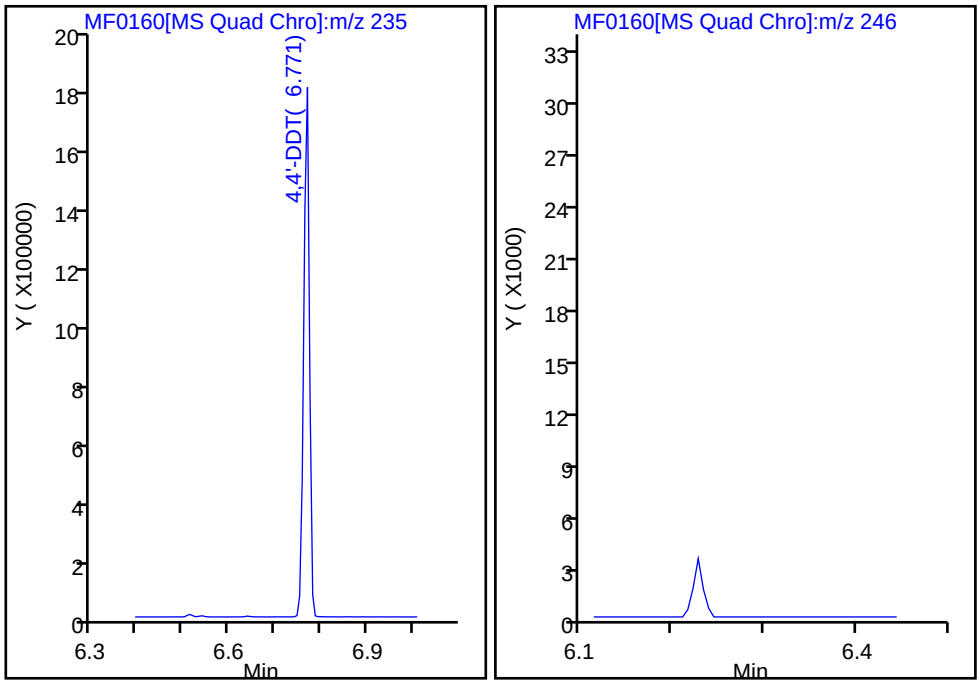


Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D
Injection Date: 03-Jun-2021 08:59:18 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

49 4,4'-DDT, Detector: MS Quad



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1547283
47 4,4'-DDE, Area = 2550
48 4,4'-DDD, Area = 10427

%Breakdown: 0.83%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

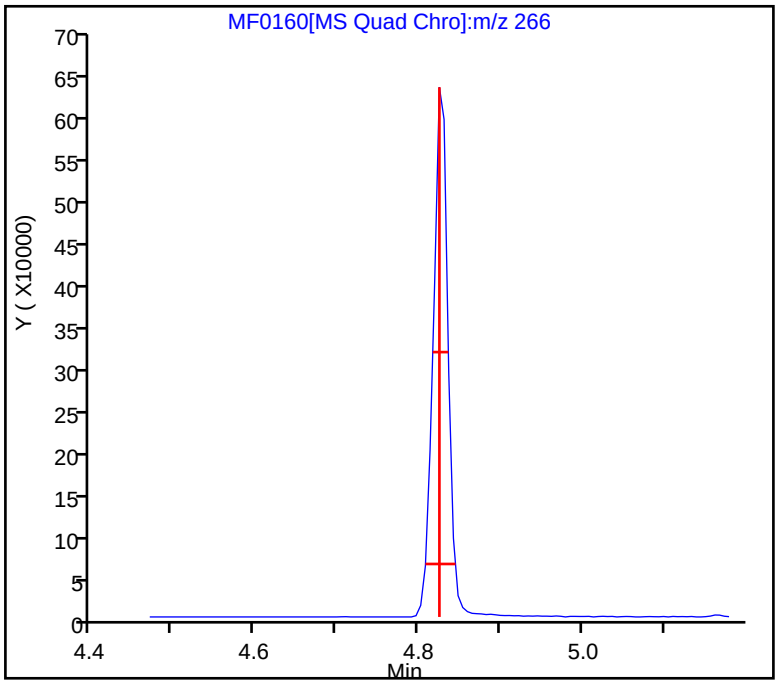
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Injection Date: 03-Jun-2021 08:59:18 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.18, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

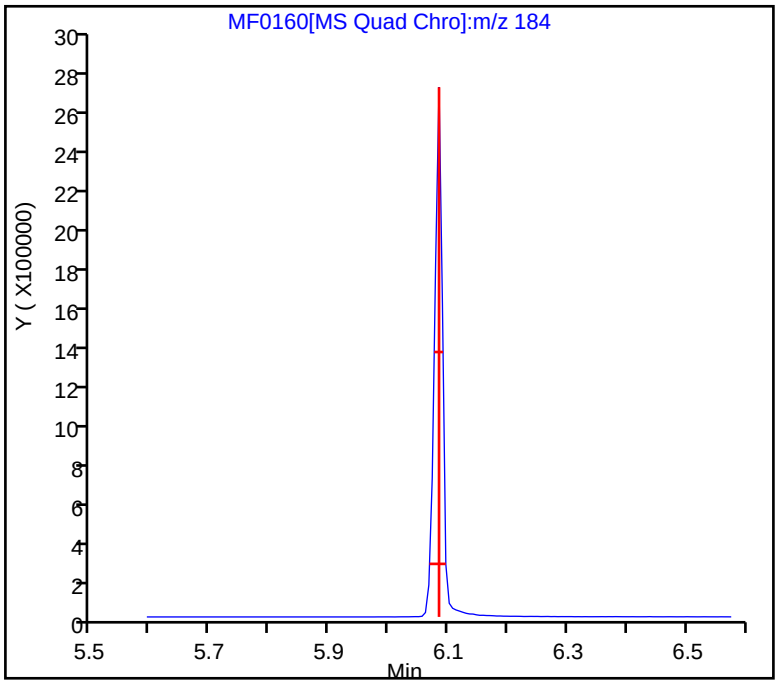
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0160.D
Injection Date: 03-Jun-2021 08:59:18 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Jun-2021 17:25:15 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033197-001
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Jun-2021 19:49:53 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: transuea Date: 29-Jun-2021 18:04:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.739	4.739	0.000	0	348155	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.987	5.987	0.000	0	1212354	NR	NR	
47 4,4'-DDE	246	6.130	6.130	0.000	0	1576		NR	
48 4,4'-DDD	235	6.427	6.427	0.000	0	11395		NR	
49 4,4'-DDT	235	6.685	6.685	0.000	0	724525	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

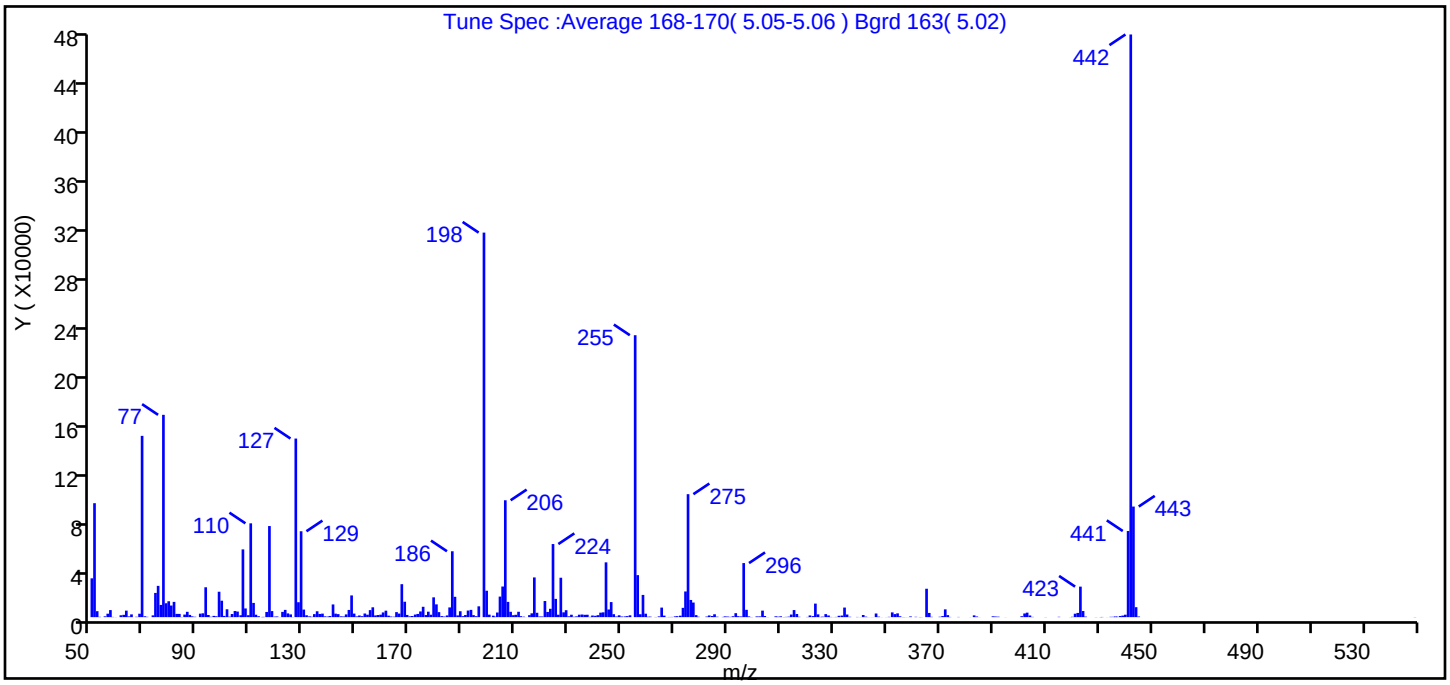
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D
Injection Date: 29-Jun-2021 17:25:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (66.0)
51	10-80% of the base peak	29.6
68	<2% of mass 69	0.9 (1.9)
69	Present	47.1
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	46.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	32.0
365	>1% of mass 198	7.4
441	present but <24% of mass 442	22.4 (14.8)
442	base peak, or >50% of 198	151.5
443	15-24% of mass 442	28.8 (19.0)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 29-Jun-2021 17:25:15
Spectrum: Tune Spec :Average 168-170(5.05-5.06) Bgrd 163(5.02)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 342

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	31424	141.00	10290	228.00	3898	324.00	2259
51.00	92240	142.00	2821	229.00	5623	325.00	196
52.00	4818	143.00	2432	230.00	661	326.00	391
53.00	248	144.00	667	231.00	1957	327.00	2454
55.00	659	145.00	537	232.00	310	328.00	1337
56.00	2785	146.00	2222	233.00	625	329.00	168
57.00	5709	147.00	5834	234.00	1987	330.00	60
58.00	188	148.00	17584	235.00	2130	331.00	182
59.00	68	149.00	2876	236.00	1899	332.00	1099
61.00	1511	150.00	601	237.00	1949	333.00	1270
62.00	1872	151.00	1341	238.00	245	334.00	7757
63.00	5274	152.00	786	239.00	1317	335.00	2129
64.00	596	153.00	2936	240.00	1094	336.00	302
65.00	2235	154.00	1979	241.00	1590	339.00	168
67.00	293	155.00	5683	242.00	3634	340.00	68
68.00	2771	156.00	7959	243.00	3881	341.00	1741
69.00	146752	157.00	1382	244.00	44360	342.00	396
70.00	694	158.00	1706	245.00	6184	343.00	72
71.00	259	159.00	1998	246.00	12191	344.00	51
73.00	1432	160.00	3818	247.00	2383	345.00	62
74.00	19608	161.00	5232	248.00	532	346.00	2954
75.00	25320	162.00	1202	249.00	1501	347.00	404
76.00	9885	163.00	503	250.00	509	348.00	56
77.00	163776	164.00	373	251.00	565	350.00	63
78.00	11246	165.00	4075	252.00	815	351.00	248
79.00	12859	166.00	2896	253.00	1475	352.00	3854
80.00	9389	167.00	26696	255.00	228224	353.00	2463
81.00	12354	168.00	12475	256.00	34008	354.00	3060
82.00	2642	169.00	1790	257.00	2367	355.00	718
83.00	2630	170.00	646	258.00	17992	356.00	121
84.00	147	171.00	927	259.00	2788	357.00	59
85.00	2090	172.00	2096	260.00	346	358.00	57
86.00	4321	173.00	2583	261.00	401	359.00	570

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 29-Jun-2021 17:25:15
Spectrum: Tune Spec :Average 168-170(5.05-5.06) Bgrd 163(5.02)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 342

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	1813	174.00	4605	263.00	136	361.00	274
88.00	639	175.00	8379	264.00	608	362.00	128
89.00	307	176.00	1705	265.00	7733	363.00	60
91.00	2821	177.00	4415	266.00	1214	365.00	22992
92.00	3100	178.00	1955	267.00	55	366.00	3397
93.00	24176	179.00	16032	268.00	160	367.00	256
94.00	1753	180.00	10354	269.00	188	370.00	316
95.00	292	181.00	4058	270.00	592	371.00	849
96.00	1017	182.00	830	271.00	767	372.00	6303
97.00	685	183.00	484	272.00	1177	373.00	1617
98.00	20568	184.00	1384	273.00	7526	374.00	164
99.00	13300	185.00	7858	274.00	20784	377.00	170
100.00	1004	186.00	53328	275.00	99544	381.00	55
101.00	6358	187.00	16464	276.00	13915	383.00	1431
102.00	392	188.00	1415	277.00	11820	384.00	520
103.00	2530	189.00	4770	278.00	1624	385.00	56
104.00	4944	190.00	786	279.00	346	390.00	661
105.00	4519	191.00	1709	282.00	460	391.00	519
106.00	1507	192.00	5350	283.00	1354	392.00	387
107.00	54848	193.00	5889	284.00	934	395.00	52
108.00	7051	194.00	1614	285.00	2332	401.00	738
109.00	1567	195.00	766	286.00	372	402.00	2976
110.00	75944	196.00	8761	288.00	188	403.00	3646
111.00	11510	198.00	311296	289.00	604	404.00	1334
112.00	1972	199.00	21376	290.00	475	405.00	191
113.00	752	200.00	2018	291.00	242	410.00	95
114.00	155	201.00	1184	292.00	732	415.00	275
115.00	206	202.00	435	293.00	3208	419.00	71
116.00	4191	203.00	3759	294.00	750	420.00	279
117.00	73744	204.00	16640	295.00	558	421.00	2781
118.00	4901	205.00	24792	296.00	43760	422.00	3412
119.00	430	206.00	94616	297.00	5928	423.00	24704
120.00	528	207.00	12351	298.00	602	424.00	4946
121.00	60	208.00	4339	299.00	127	425.00	443

Report Date: 29-Jun-2021 19:49:53 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 29-Jun-2021 17:25:15
Spectrum: Tune Spec :Average 168-170(5.05-5.06) Bgrd 163(5.02)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 342

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	4264	209.00	1557	301.00	575	429.00	90
123.00	5877	210.00	1903	302.00	611	431.00	120
124.00	3035	211.00	4348	303.00	5275	431.00	156
125.00	2223	212.00	772	304.00	910	433.00	53
126.00	136	213.00	394	305.00	88	434.00	267
127.00	144576	214.00	53	308.00	660	436.00	318
128.00	12068	215.00	1619	309.00	396	436.00	494
129.00	69520	216.00	3093	310.00	676	437.00	398
130.00	6125	217.00	32144	311.00	131	438.00	899
131.00	1510	218.00	3528	312.00	216	439.00	1252
132.00	643	219.00	526	313.00	396	440.00	1977
133.00	342	220.00	529	314.00	2111	441.00	69712
134.00	2443	221.00	13050	315.00	5736	442.00	471680
135.00	4753	222.00	4197	316.00	2523	443.00	89528
136.00	2569	223.00	6756	317.00	316	444.00	8061
137.00	2843	224.00	59168	320.00	166	445.00	527
138.00	631	225.00	14784	321.00	1368	549.00	110
139.00	455	226.00	1957	322.00	840		
140.00	884	227.00	31904	323.00	10962		

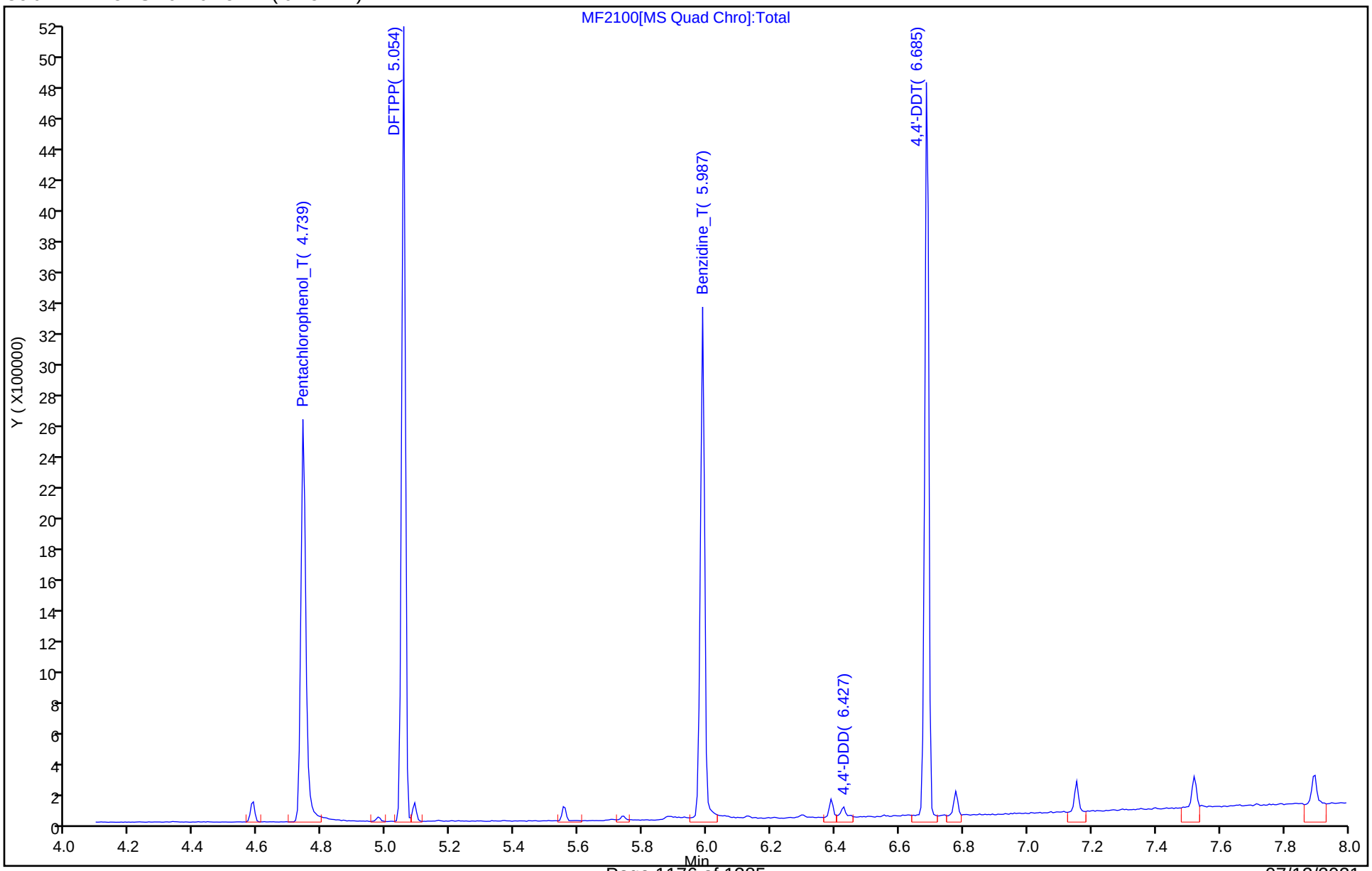
Report Date: 29-Jun-2021 19:49:53 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D

Injection Date:	29-Jun-2021 17:25:15	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D
Injection Date: 29-Jun-2021 17:25:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

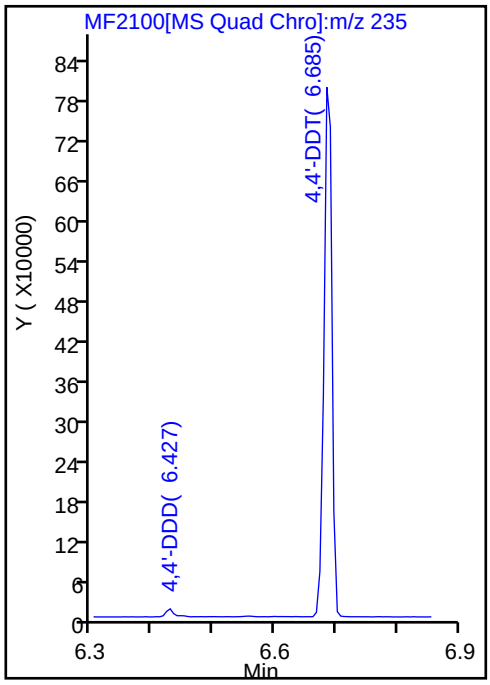
49 4,4'-DDT, Detector: MS Quad

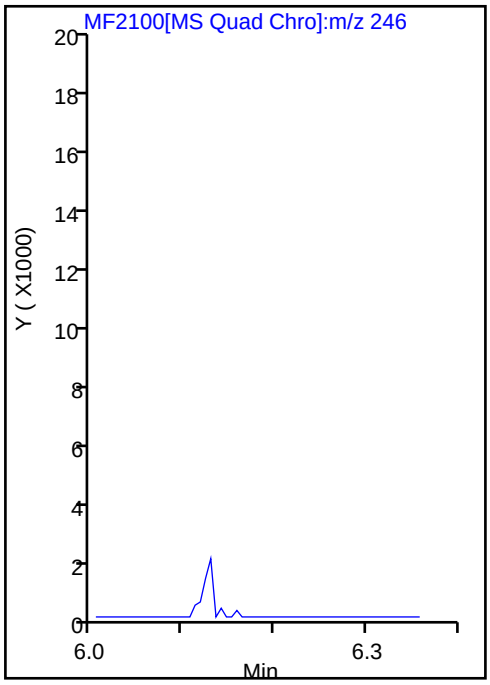
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 724525
47 4,4'-DDE, Area = 1576
48 4,4'-DDD, Area = 11395

%Breakdown: 1.76%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

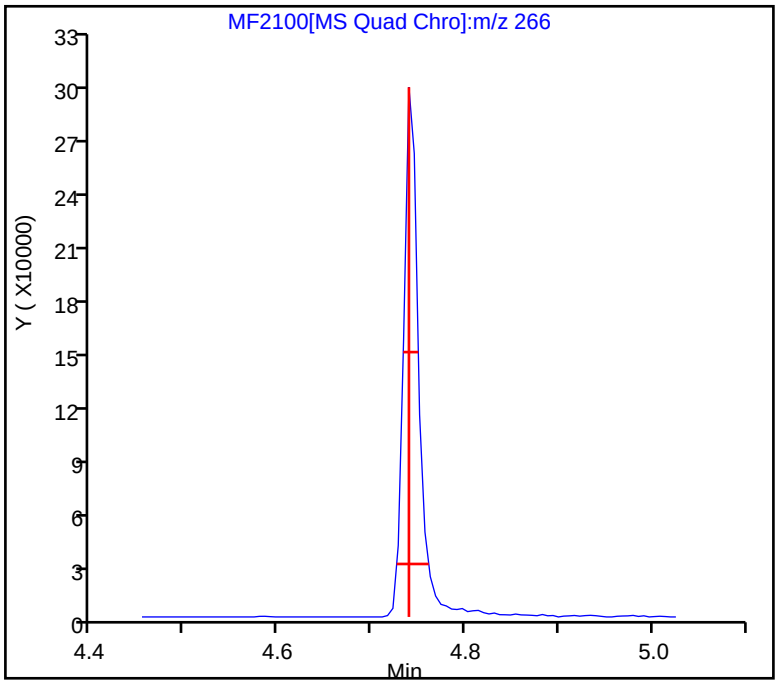
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D
Injection Date: 29-Jun-2021 17:25:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.62, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

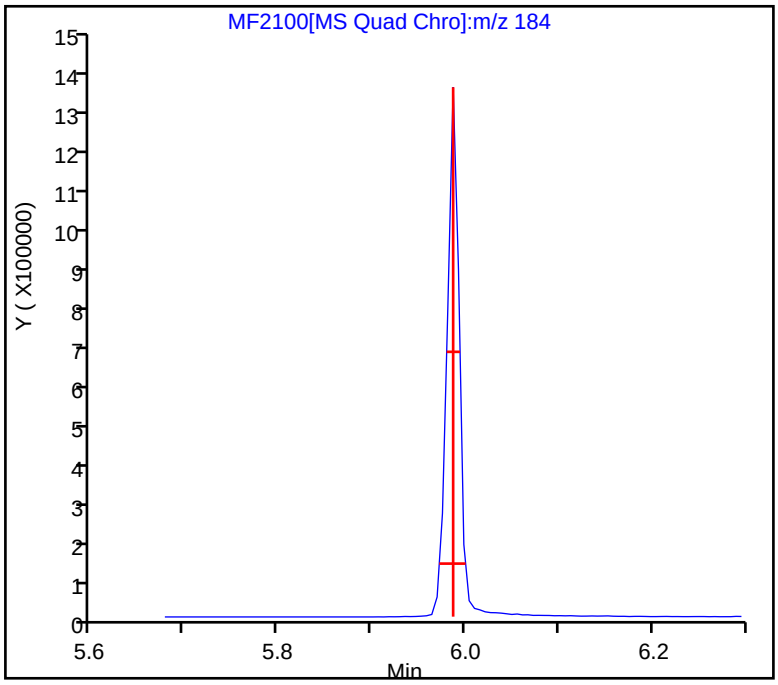
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2100.D
Injection Date: 29-Jun-2021 17:25:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.87, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Jun-2021 20:32:31 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033298-001
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Jun-2021 21:30:56 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: transuea Date: 30-Jun-2021 20:48:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.711	4.711	0.000	0	390334	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.952	5.952	0.000	0	1469810	NR	NR	
47 4,4'-DDE	246	6.090	6.090	0.000	0	1564		NR	
48 4,4'-DDD	235	6.387	6.387	0.000	0	4171		NR	a
49 4,4'-DDT	235	6.639	6.639	0.000	0	800149	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

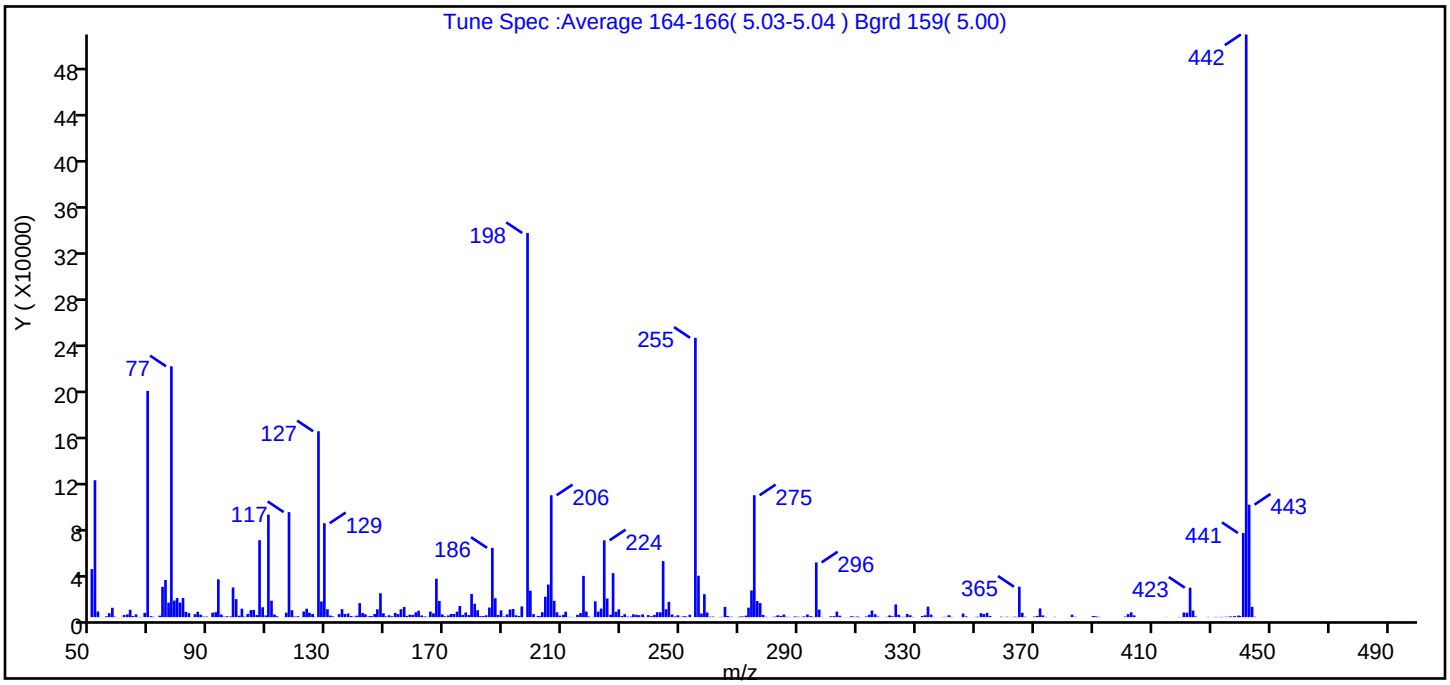
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D
Injection Date: 30-Jun-2021 20:32:31 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (65.9)
51	10-80% of the base peak	35.6
68	<2% of mass 69	1.1 (1.9)
69	Present	58.9
70	<2% of mass 69	0.3 (0.4)
127	10-80% of the base peak	48.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	31.7
365	>1% of mass 198	7.9
441	present but <24% of mass 442	21.9 (14.4)
442	base peak, or >50% of 198	151.7
443	15-24% of mass 442	29.3 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D\8270_SIM_HP21585.rslt\spectr
Injection Date: 30-Jun-2021 20:32:31
Spectrum: Tune Spec :Average 164-166(5.03-5.04) Bgrd 159(5.00)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	41816	140.00	1303	226.00	2101	316.00	2496
51.00	119088	141.00	12124	227.00	38240	317.00	504
52.00	4934	142.00	3565	228.00	4668	318.00	51
53.00	131	143.00	2463	229.00	6796	320.00	257
55.00	767	144.00	732	230.00	1032	321.00	1507
56.00	3487	145.00	959	231.00	2542	322.00	755
57.00	8146	146.00	2714	232.00	494	323.00	11057
58.00	433	147.00	6826	233.00	588	324.00	2077
59.00	88	148.00	20776	234.00	2504	325.00	259
60.00	219	149.00	3347	235.00	2045	326.00	327
61.00	1904	150.00	657	236.00	1681	327.00	2802
62.00	2382	151.00	1596	237.00	2428	328.00	1629
63.00	6418	152.00	826	238.00	291	329.00	214
64.00	988	153.00	3674	239.00	1791	332.00	1066
65.00	2375	154.00	2638	240.00	830	333.00	1640
66.00	202	155.00	6867	241.00	1946	334.00	9130
67.00	193	156.00	8905	242.00	4277	335.00	2218
68.00	3720	157.00	1056	243.00	4185	336.00	222
69.00	196736	158.00	2117	244.00	48752	339.00	210
70.00	836	159.00	1986	245.00	6881	340.00	337
71.00	336	160.00	4171	246.00	13314	341.00	1683
73.00	1308	161.00	5609	247.00	2308	342.00	345
74.00	26320	162.00	1490	248.00	594	343.00	50
75.00	32336	163.00	620	249.00	1635	345.00	53
76.00	12625	164.00	316	250.00	317	346.00	3111
77.00	218176	165.00	4854	251.00	799	347.00	643
78.00	14386	166.00	3307	252.00	621	350.00	224
79.00	16576	167.00	33392	253.00	2077	351.00	317
80.00	12633	168.00	14100	255.00	242944	352.00	3445
81.00	16696	169.00	2385	256.00	36040	353.00	2673
82.00	4613	170.00	772	257.00	3158	354.00	3753
83.00	3489	171.00	1492	258.00	20000	355.00	990
84.00	150	172.00	2770	259.00	4015	359.00	404

Report Date: 30-Jun-2021 21:30:56 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D\8270_SIM_HP21585.rslt\spectr
Injection Date: 30-Jun-2021 20:32:31
Spectrum: Tune Spec :Average 164-166(5.03-5.04) Bgrd 159(5.00)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	2536	173.00	2773	260.00	399	361.00	375
86.00	4719	174.00	4745	261.00	472	363.00	195
87.00	2121	175.00	9692	263.00	169	364.00	396
88.00	517	176.00	1904	264.00	316	364.00	157
89.00	509	177.00	4027	265.00	8972	365.00	26456
91.00	3865	178.00	1822	266.00	1042	366.00	3730
92.00	4291	179.00	20192	267.00	412	367.00	368
93.00	32904	180.00	11641	269.00	147	370.00	504
94.00	2297	181.00	6030	270.00	452	371.00	1078
95.00	472	182.00	889	271.00	658	372.00	7589
96.00	798	183.00	918	272.00	1273	373.00	1486
97.00	603	184.00	1607	273.00	8266	374.00	262
98.00	25832	185.00	8333	274.00	23184	377.00	293
99.00	15693	186.00	60248	275.00	106032	383.00	2137
100.00	1256	187.00	16448	276.00	13956	384.00	344
101.00	7359	188.00	1850	277.00	12206	390.00	974
102.00	496	189.00	5878	278.00	1974	391.00	802
103.00	2807	190.00	598	279.00	300	392.00	345
104.00	6094	191.00	2411	280.00	61	396.00	59
105.00	6270	192.00	6699	281.00	270	401.00	523
106.00	1791	193.00	7101	282.00	466	402.00	2608
107.00	66912	194.00	1655	283.00	1663	403.00	4184
108.00	8594	195.00	1076	284.00	1083	404.00	1563
109.00	1501	196.00	9337	285.00	2276	405.00	58
110.00	89200	198.00	334080	286.00	319	415.00	162
111.00	14282	199.00	22984	287.00	214	419.00	208
112.00	2281	200.00	2623	288.00	187	420.00	129
113.00	817	202.00	1045	289.00	596	421.00	4014
115.00	188	202.00	718	290.00	390	422.00	3833
116.00	3856	203.00	4254	291.00	248	423.00	25616
117.00	91328	204.00	17712	292.00	646	424.00	5717
118.00	6005	205.00	28344	293.00	2291	425.00	600
119.00	573	206.00	106008	294.00	867	429.00	233
120.00	849	207.00	14213	295.00	311	431.00	174

Report Date: 30-Jun-2021 21:30:57 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D\8270_SIM_HP21585.rslt\spectr
Injection Date: 30-Jun-2021 20:32:31
Spectrum: Tune Spec :Average 164-166(5.03-5.04) Bgrd 159(5.00)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 337

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	93	208.00	4210	296.00	47608	432.00	235
122.00	4894	209.00	1374	297.00	6553	433.00	205
123.00	7317	210.00	1988	298.00	238	434.00	193
124.00	3775	211.00	4772	300.00	54	435.00	367
125.00	2782	212.00	271	301.00	709	436.00	376
126.00	338	213.00	247	302.00	910	437.00	634
127.00	161664	214.00	103	303.00	4831	438.00	934
128.00	13627	215.00	2012	304.00	1248	439.00	1409
129.00	81680	216.00	3540	305.00	129	440.00	979
130.00	6856	217.00	35888	306.00	92	441.00	73168
131.00	1371	218.00	4889	307.00	58	442.00	506752
132.00	634	219.00	612	308.00	789	443.00	97832
134.00	2618	220.00	212	309.00	398	444.00	9028
135.00	6989	221.00	13782	310.00	613	445.00	404
136.00	2744	222.00	4813	311.00	122	495.00	57
137.00	3147	223.00	7500	313.00	598		
138.00	919	224.00	66816	314.00	2034		
139.00	446	225.00	16224	315.00	5741		

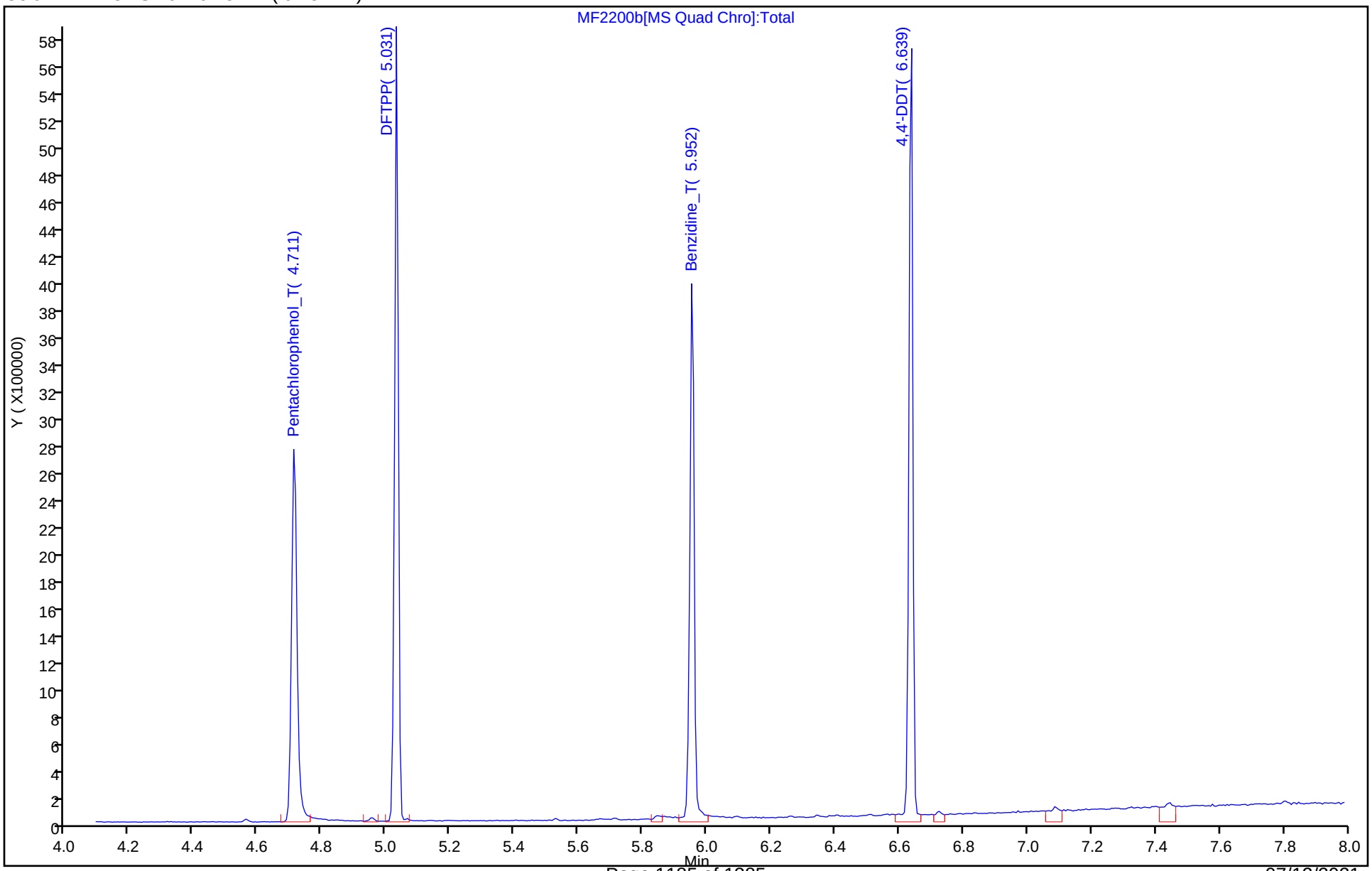
Report Date: 30-Jun-2021 21:30:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D

Injection Date:	30-Jun-2021 20:32:31	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

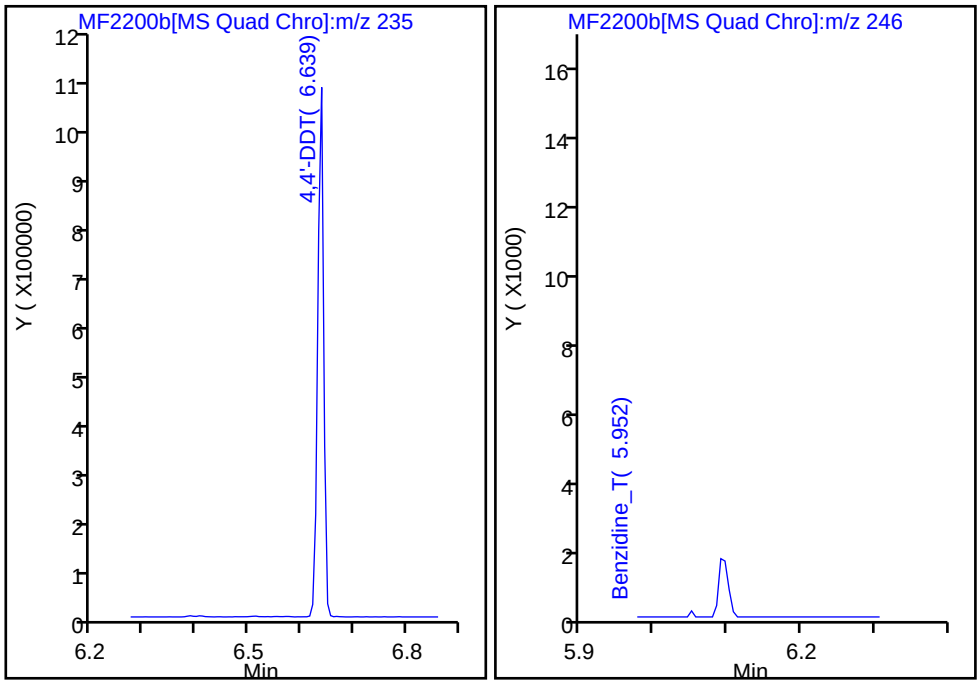


Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D				
Injection Date:	30-Jun-2021 20:32:31	Instrument ID:	HP21585		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

49 4,4'-DDT, Detector: MS Quad



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 800149
47 4,4'-DDE, Area = 1564
48 4,4'-DDD, Area = 4171

%Breakdown: 0.71%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

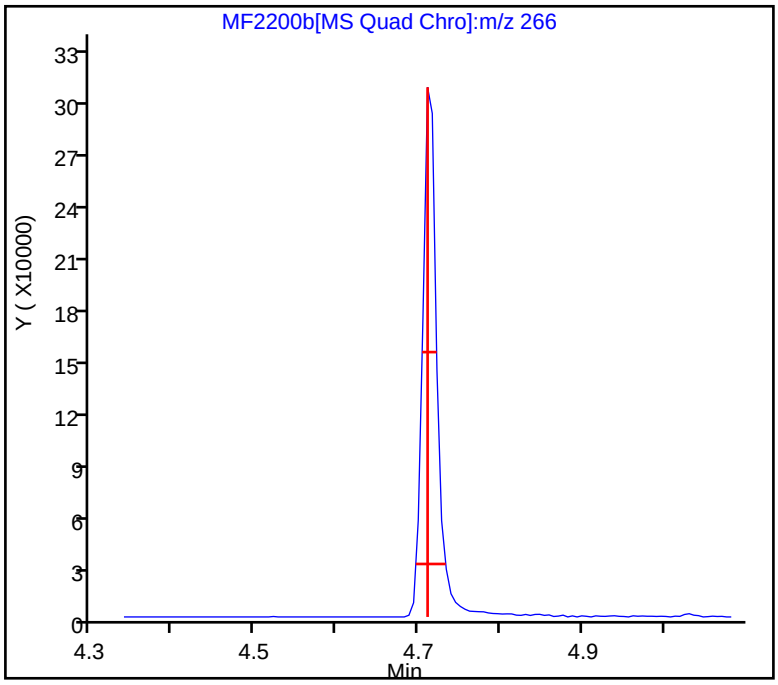
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D
Injection Date: 30-Jun-2021 20:32:31 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.57, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

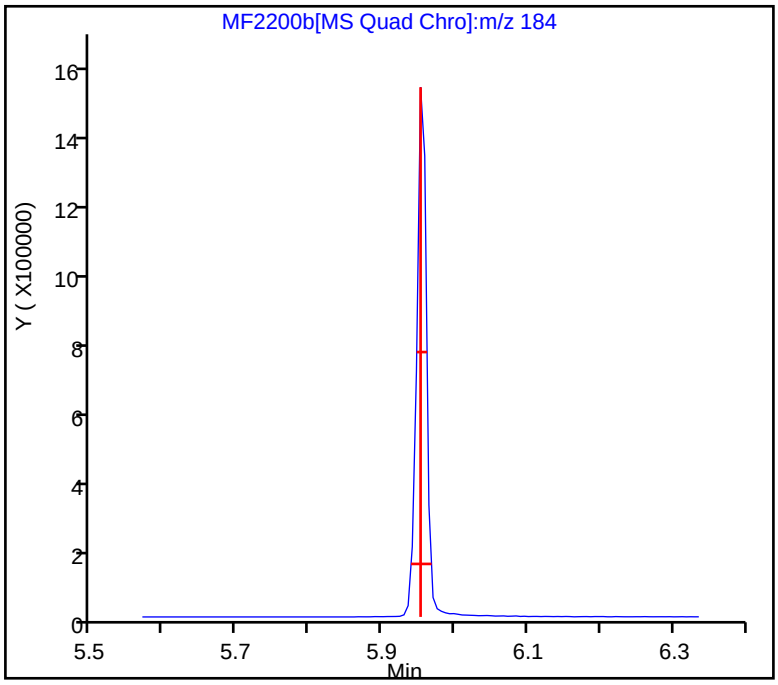
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2200b.D
Injection Date: 30-Jun-2021 20:32:31 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.15, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Jul-2021 21:28:16 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033409-001
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 22:19:43 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 21:43:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.694	4.694	0.000	0	642415	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.935	5.935	0.000	0	2086638	NR	NR	
47 4,4'-DDE	246	6.073	6.073	0.000	0	2623		NR	
48 4,4'-DDD	235	6.359	6.359	0.000	0	5620		NR	
49 4,4'-DDT	235	6.611	6.611	0.000	0	1156947	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

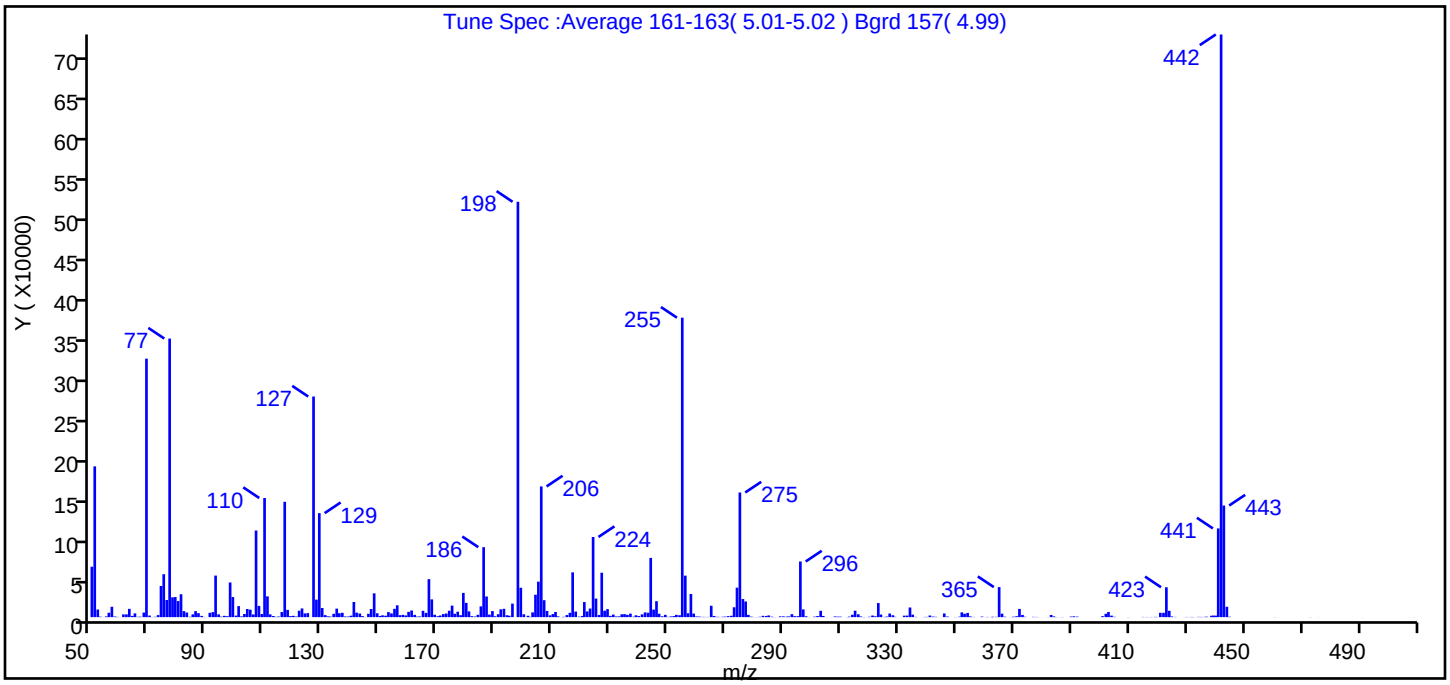
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D
Injection Date: 01-Jul-2021 21:28:16 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (71.3)
51	10-80% of the base peak	36.3
68	<2% of mass 69	1.1 (1.8)
69	Present	62.2
70	<2% of mass 69	0.4 (0.6)
127	10-80% of the base peak	53.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	30.0
365	>1% of mass 198	7.2
441	present but <24% of mass 442	21.4 (15.2)
442	base peak, or >50% of 198	140.3
443	15-24% of mass 442	26.9 (19.2)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 01-Jul-2021 21:28:16
Spectrum: Tune Spec :Average 161-163(5.01-5.02) Bgrd 157(4.99)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	62680	142.00	5583	234.00	3539	328.00	2364
51.00	187520	143.00	4539	235.00	3760	329.00	434
52.00	9492	144.00	1315	236.00	2924	332.00	1863
53.00	584	145.00	132	237.00	4363	333.00	1955
54.00	82	146.00	4180	238.00	504	334.00	12012
55.00	931	147.00	10121	239.00	2308	335.00	3097
56.00	5461	148.00	29616	240.00	1388	336.00	325
57.00	12874	149.00	4818	241.00	3461	339.00	251
58.00	809	150.00	1478	242.00	5906	340.00	321
59.00	323	151.00	2245	243.00	5462	341.00	2028
60.00	56	152.00	1769	244.00	73680	342.00	745
61.00	3399	153.00	6289	245.00	9403	343.00	412
62.00	3426	154.00	4597	246.00	19856	346.00	4540
63.00	10318	155.00	10323	247.00	4192	347.00	767
64.00	1558	156.00	14741	248.00	1034	350.00	197
65.00	4700	157.00	2450	249.00	2857	351.00	570
66.00	444	158.00	2893	250.00	359	352.00	5957
67.00	565	159.00	2141	251.00	919	353.00	4177
68.00	5706	160.00	6563	252.00	1289	354.00	5256
69.00	321472	161.00	8313	253.00	2882	355.00	975
70.00	1989	162.00	2838	254.00	2358	356.00	267
71.00	167	163.00	664	255.00	372416	359.00	717
72.00	451	164.00	892	256.00	51584	360.00	65
73.00	2519	165.00	7923	257.00	4812	361.00	267
74.00	38760	166.00	5335	258.00	28784	362.00	247
75.00	53392	167.00	47248	259.00	4448	363.00	464
76.00	21288	168.00	22080	260.00	840	364.00	341
77.00	346432	169.00	2954	261.00	721	365.00	37360
78.00	24624	170.00	1166	262.00	305	366.00	4316
79.00	24992	171.00	2017	263.00	256	367.00	534
80.00	19992	172.00	3765	264.00	249	369.00	135
81.00	28504	173.00	4525	265.00	14158	370.00	570
82.00	7481	174.00	7963	266.00	1474	371.00	1148

Report Date: 01-Jul-2021 22:19:43 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 01-Jul-2021 21:28:16
Spectrum: Tune Spec :Average 161-163(5.01-5.02) Bgrd 157(4.99)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	5732	175.00	14367	267.00	437	372.00	10249
84.00	428	176.00	4180	268.00	310	373.00	2777
85.00	3500	177.00	6716	269.00	446	374.00	461
86.00	7452	178.00	2430	270.00	666	377.00	364
87.00	4930	179.00	30152	271.00	1253	378.00	267
88.00	1583	180.00	17744	272.00	1726	379.00	72
89.00	284	181.00	7168	273.00	12271	382.00	126
90.00	60	182.00	1238	274.00	36640	383.00	2712
91.00	5371	183.00	762	275.00	155008	384.00	938
92.00	6275	184.00	2927	276.00	22520	385.00	181
93.00	51696	185.00	13390	277.00	19464	387.00	203
94.00	3483	186.00	87008	278.00	2827	390.00	711
95.00	613	187.00	25680	279.00	614	391.00	1027
96.00	1636	188.00	3155	280.00	99	392.00	646
97.00	1177	189.00	7564	281.00	151	401.00	1202
98.00	43128	190.00	1084	282.00	461	402.00	4178
99.00	24968	191.00	3636	283.00	1636	403.00	6427
100.00	1928	192.00	9694	284.00	1500	404.00	1868
101.00	13725	193.00	10385	285.00	2087	405.00	435
102.00	952	194.00	2376	286.00	581	410.00	137
103.00	3947	195.00	1728	287.00	159	415.00	268
104.00	10120	196.00	16832	288.00	77	416.00	203
105.00	9275	198.00	516544	289.00	973	417.00	94
106.00	3336	199.00	36536	290.00	967	418.00	219
107.00	107760	200.00	3543	291.00	586	419.00	369
108.00	13997	201.00	1699	292.00	938	420.00	135
109.00	3851	202.00	303	293.00	3701	421.00	5400
110.00	148160	203.00	5884	294.00	1256	422.00	5401
111.00	25840	204.00	27848	295.00	1210	423.00	37160
112.00	3463	205.00	44128	296.00	69208	424.00	7860
113.00	1389	206.00	162560	297.00	9624	425.00	874
114.00	384	207.00	21088	298.00	1087	426.00	270
115.00	773	208.00	7692	299.00	104	429.00	68
116.00	6341	209.00	2241	301.00	630	430.00	251

Report Date: 01-Jul-2021 22:19:43 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 01-Jul-2021 21:28:16
Spectrum: Tune Spec :Average 161-163(5.01-5.02) Bgrd 157(4.99)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	143424	210.00	3805	302.00	1368	432.00	256
118.00	9027	211.00	6403	303.00	7861	432.00	198
119.00	1329	212.00	959	304.00	1452	433.00	33
120.00	1672	213.00	150	305.00	62	434.00	332
121.00	751	214.00	406	307.00	56	435.00	297
122.00	7952	215.00	2589	308.00	829	436.00	282
123.00	10813	216.00	5407	309.00	655	437.00	569
124.00	4662	217.00	55704	310.00	611	439.00	1748
125.00	5005	218.00	6922	312.00	135	439.00	1930
127.00	274368	219.00	619	313.00	646	440.00	1844
128.00	21776	220.00	1370	314.00	2977	441.00	110328
129.00	129336	221.00	18760	315.00	8021	442.00	724608
130.00	11356	222.00	7091	316.00	3560	443.00	138816
131.00	2524	223.00	10705	317.00	846	444.00	12885
132.00	1035	224.00	99664	318.00	218	445.00	509
133.00	684	225.00	23088	319.00	87	461.00	148
134.00	4161	226.00	2731	320.00	517	473.00	134
135.00	10607	227.00	55240	321.00	2010	476.00	56
136.00	4889	228.00	7967	322.00	1057	491.00	69
137.00	5393	229.00	10007	323.00	17512	507.00	69
138.00	844	230.00	1602	324.00	3265	509.00	100
139.00	790	231.00	3224	325.00	258		
140.00	1811	232.00	864	326.00	702		
141.00	18856	233.00	949	327.00	4480		

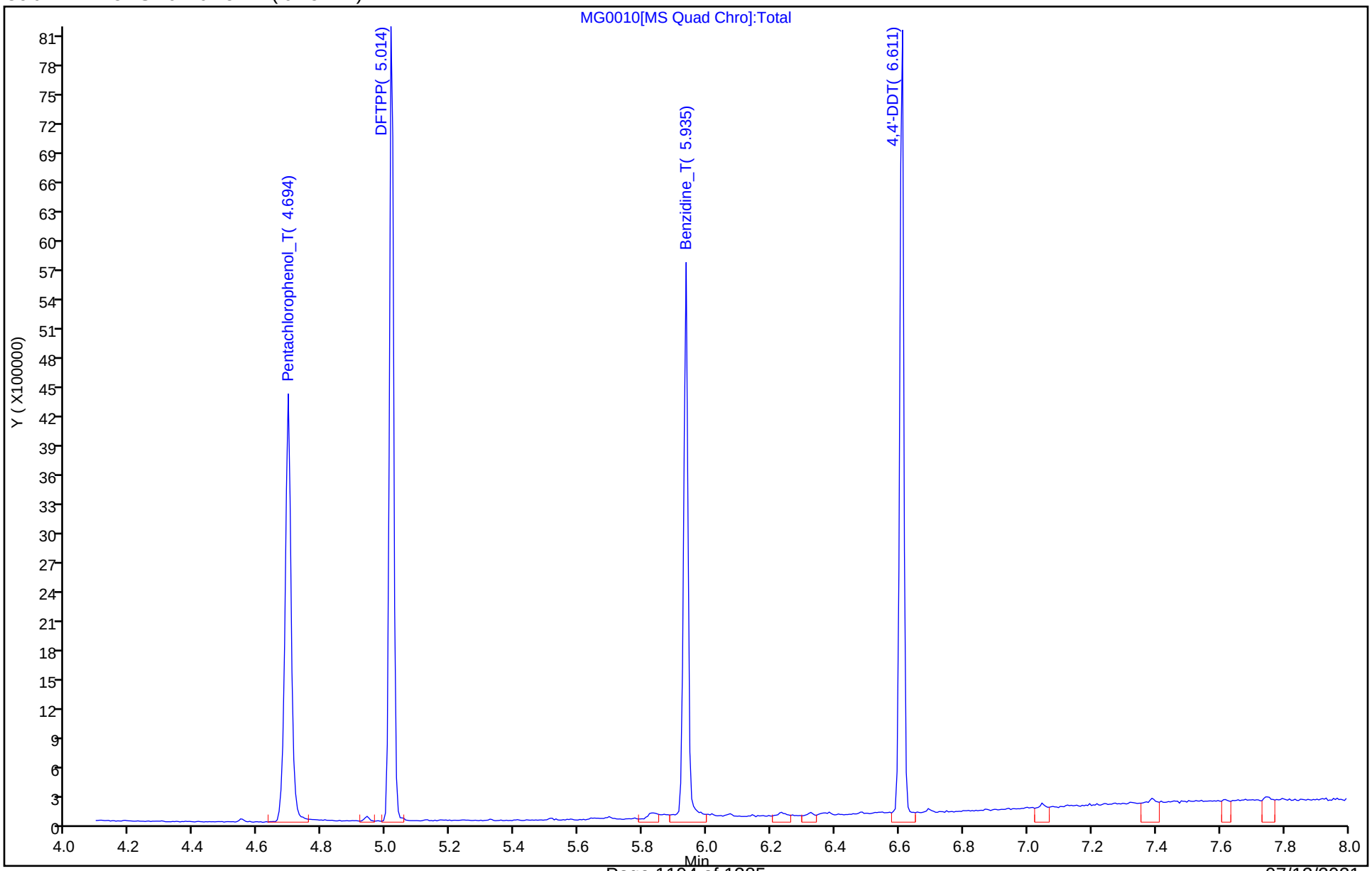
Report Date: 01-Jul-2021 22:19:43 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D

Injection Date:	01-Jul-2021 21:28:16	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

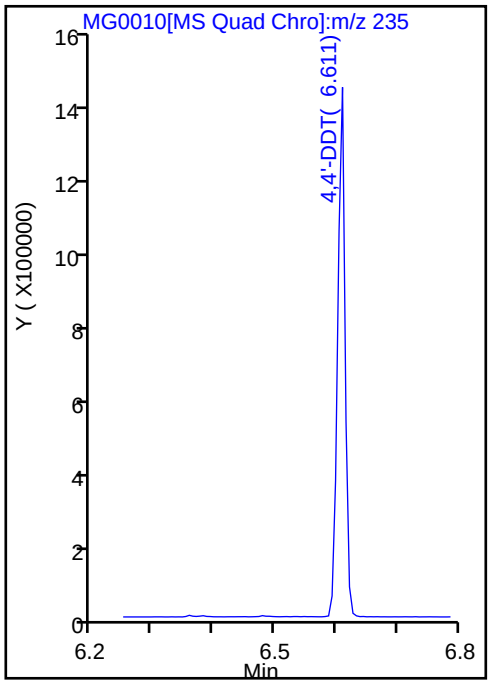


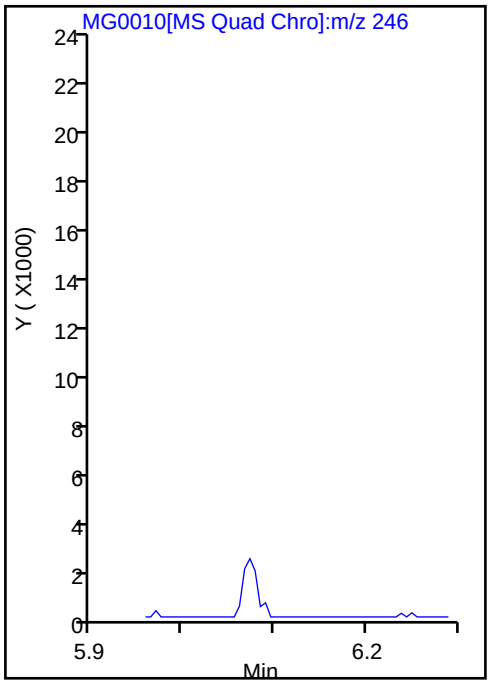
Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D
Injection Date: 01-Jul-2021 21:28:16 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

49 4,4'-DDT, Detector: MS Quad





SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1156947
47 4,4'-DDE, Area = 2623
48 4,4'-DDD, Area = 5620

%Breakdown: 0.71%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

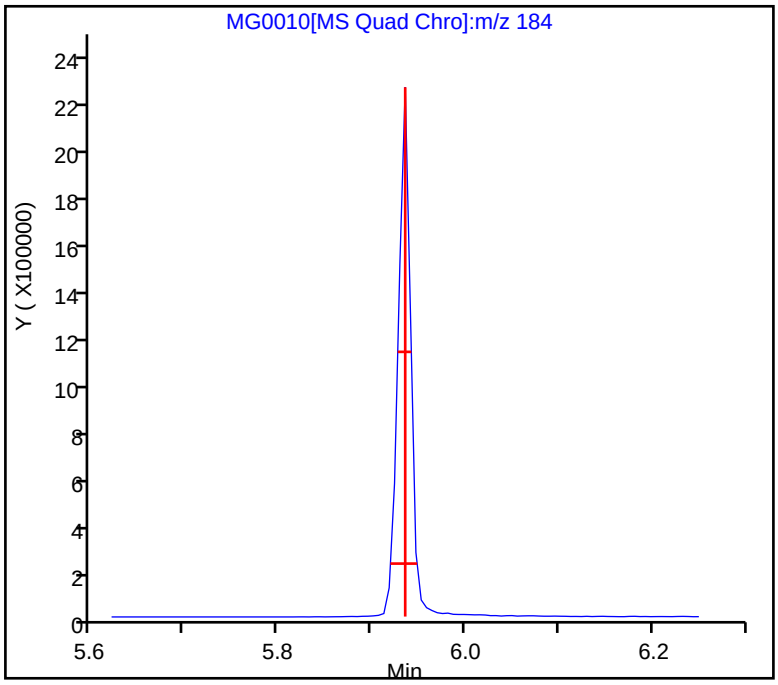
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D
Injection Date: 01-Jul-2021 21:28:16 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.81, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

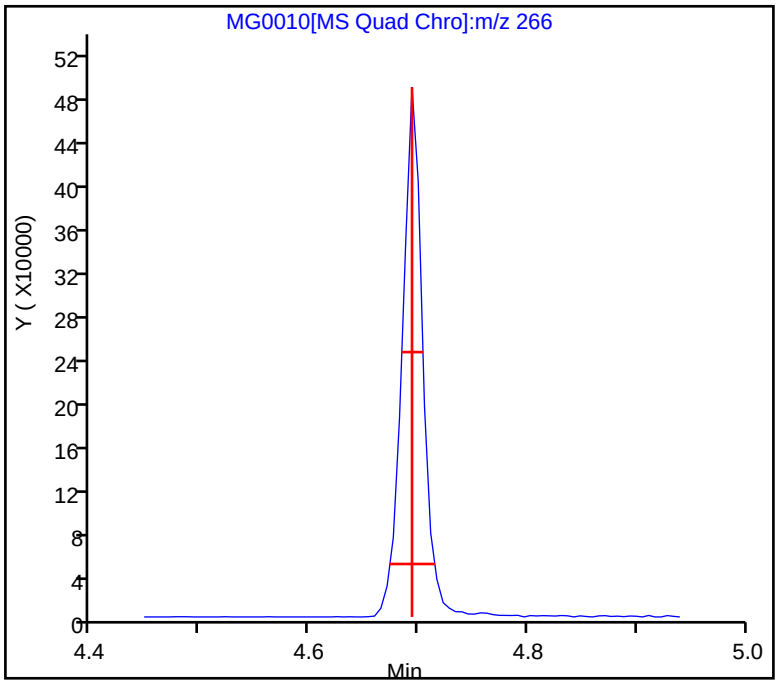
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210701-33409.b\MG0010.D
Injection Date: 01-Jul-2021 21:28:16 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 1.05, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 02-Jul-2021 10:43:04 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033483-002
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 02-Jul-2021 11:44:52 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1633

First Level Reviewer: transuea Date: 02-Jul-2021 11:03:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.705	4.705	0.000	0	607692	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.958	5.958	0.000	0	1641603	NR	NR	
47 4,4'-DDE	246	6.095	6.095	0.000	0	2334		NR	
48 4,4'-DDD	235	6.393	6.393	0.000	0	11110		NR	
49 4,4'-DDT	235	6.650	6.650	0.000	0	973514	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

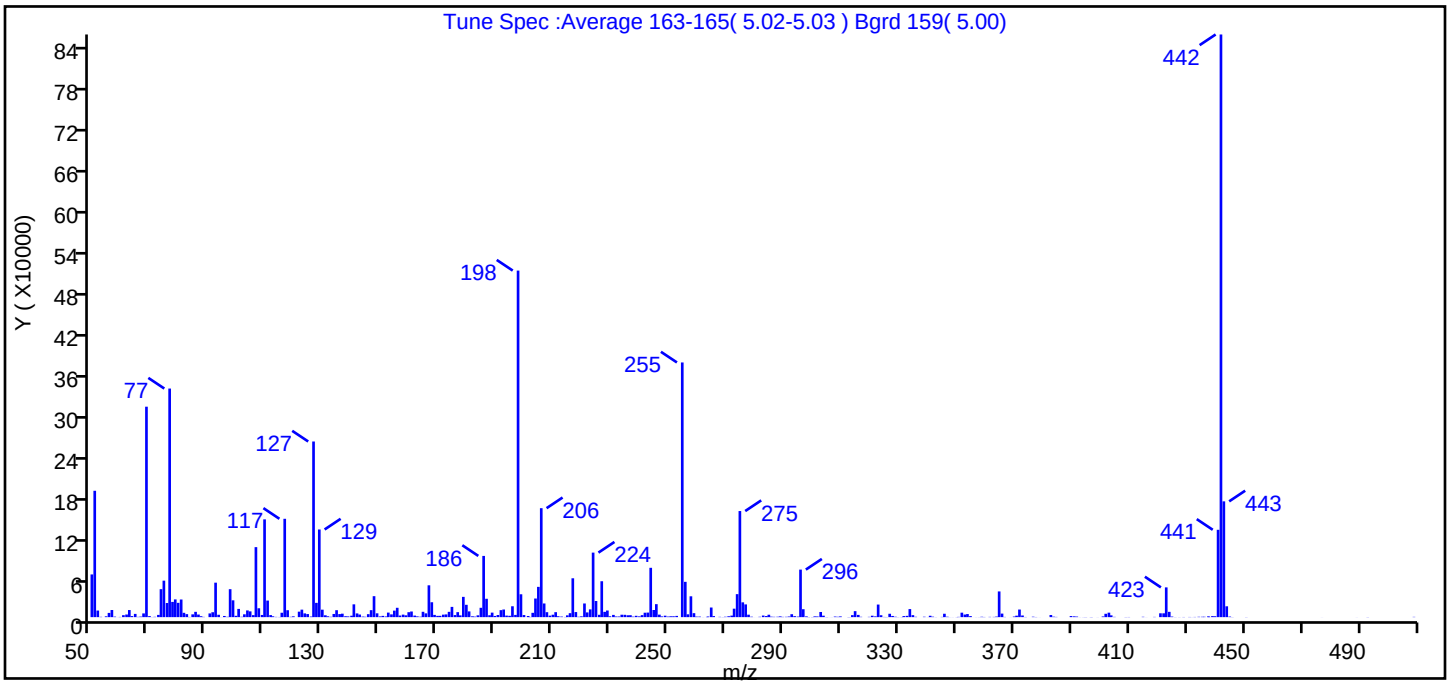
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D
Injection Date: 02-Jul-2021 10:43:04 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (59.5)
51	10-80% of the base peak	36.5
68	<2% of mass 69	1.1 (1.8)
69	Present	60.7
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	50.7
197	<2% of mass 198	0.6
199	5-9% of mass 198	6.6
275	10-60% of the base peak	30.6
365	>1% of mass 198	7.4
441	present but <24% of mass 442	25.2 (15.0)
442	base peak, or >50% of 198	168.1
443	15-24% of mass 442	33.4 (19.9)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 02-Jul-2021 10:43:04
Spectrum: Tune Spec :Average 163-165(5.02-5.03) Bgrd 159(5.00)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	62832	145.00	548	237.00	2845	333.00	1903
51.00	185920	146.00	4367	238.00	752	334.00	11861
52.00	9708	147.00	10263	239.00	1994	335.00	2903
53.00	450	148.00	30856	240.00	1132	336.00	508
55.00	1214	149.00	5620	241.00	2926	339.00	610
56.00	6227	150.00	1069	242.00	6513	340.00	86
57.00	10491	151.00	1867	243.00	6704	341.00	2027
58.00	771	152.00	999	244.00	72592	342.00	701
59.00	47	153.00	6677	245.00	10505	343.00	126
60.00	316	154.00	4063	246.00	19112	345.00	361
61.00	2898	155.00	9588	247.00	3682	346.00	5000
62.00	3865	156.00	13762	248.00	1088	347.00	627
63.00	10446	157.00	2362	249.00	2138	348.00	95
64.00	1556	158.00	3686	250.00	849	349.00	82
65.00	4775	159.00	2675	251.00	1267	350.00	179
66.00	417	160.00	7274	252.00	1271	351.00	402
67.00	808	161.00	8306	253.00	1829	352.00	6573
68.00	5488	162.00	2290	255.00	374720	353.00	3821
69.00	309632	163.00	1129	256.00	51952	354.00	4534
70.00	1515	164.00	640	257.00	4156	355.00	1546
71.00	149	165.00	7881	258.00	30664	356.00	36
72.00	475	166.00	5577	259.00	5851	357.00	87
73.00	3286	167.00	46840	260.00	807	358.00	127
74.00	41136	168.00	21912	261.00	810	359.00	544
75.00	53688	169.00	3303	262.00	90	360.00	275
76.00	20776	170.00	1888	264.00	346	362.00	385
77.00	336320	171.00	1941	264.00	911	363.00	354
78.00	22400	172.00	3664	265.00	14177	364.00	825
79.00	26096	173.00	4013	266.00	1545	365.00	37832
80.00	21032	174.00	7803	267.00	14	366.00	5225
81.00	25960	175.00	15081	268.00	435	367.00	317
82.00	6370	176.00	3049	269.00	185	369.00	62
83.00	4398	177.00	7343	270.00	586	370.00	885

Report Date: 02-Jul-2021 11:44:52 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 02-Jul-2021 10:43:04
Spectrum: Tune Spec :Average 163-165(5.02-5.03) Bgrd 159(5.00)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	304	178.00	2582	271.00	1288	371.00	2159
85.00	4118	179.00	29840	272.00	2235	372.00	11186
86.00	7812	180.00	18152	273.00	12466	373.00	2423
87.00	3812	181.00	8441	274.00	33832	374.00	259
88.00	1338	182.00	1243	275.00	156096	377.00	636
89.00	369	183.00	755	276.00	21776	378.00	242
91.00	5454	184.00	2678	277.00	18752	379.00	51
92.00	7220	185.00	13757	278.00	3612	383.00	3140
93.00	50720	186.00	90080	279.00	644	384.00	657
94.00	3487	187.00	27024	280.00	55	385.00	339
95.00	108	188.00	2771	281.00	36	390.00	1627
96.00	1714	189.00	6648	282.00	533	391.00	1158
97.00	530	190.00	1746	283.00	2346	392.00	844
98.00	41136	191.00	3137	284.00	1633	393.00	83
99.00	24744	192.00	10285	285.00	3552	394.00	128
100.00	1953	193.00	11224	286.00	717	395.00	202
101.00	12109	194.00	2285	287.00	478	397.00	84
102.00	538	195.00	1986	288.00	568	397.00	200
103.00	4172	196.00	16010	289.00	1113	399.00	83
104.00	9875	197.00	3279	290.00	403	401.00	997
105.00	8498	198.00	509888	291.00	501	402.00	4937
106.00	2949	199.00	33648	292.00	928	403.00	6572
107.00	103000	200.00	3074	293.00	4304	404.00	2611
108.00	13067	201.00	1656	294.00	1462	405.00	396
109.00	3200	202.00	286	295.00	806	409.00	218
110.00	143872	203.00	6356	296.00	69952	410.00	244
111.00	24392	204.00	27408	297.00	11660	415.00	511
112.00	3032	205.00	44552	298.00	1111	416.00	62
113.00	1226	206.00	160320	299.00	208	419.00	363
114.00	371	207.00	20104	300.00	209	421.00	5655
115.00	276	208.00	7283	301.00	1115	422.00	5626
116.00	6466	209.00	2230	302.00	959	423.00	43784
117.00	144704	210.00	3551	303.00	7590	424.00	7808
118.00	10195	211.00	7318	304.00	2136	425.00	840

Report Date: 02-Jul-2021 11:44:52 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 02-Jul-2021 10:43:04
Spectrum: Tune Spec :Average 163-165(5.02-5.03) Bgrd 159(5.00)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	491	212.00	1291	305.00	198	426.00	141
120.00	1191	213.00	844	306.00	52	428.00	131
122.00	8065	214.00	261	307.00	88	429.00	243
123.00	11017	215.00	2642	308.00	865	431.00	281
124.00	5511	216.00	5839	309.00	526	432.00	86
125.00	4540	217.00	57176	310.00	1070	433.00	294
126.00	865	218.00	7468	313.00	166	434.00	519
127.00	258432	219.00	550	313.00	145	435.00	533
128.00	21024	220.00	1194	314.00	2934	436.00	574
129.00	128976	221.00	20104	315.00	8801	438.00	1167
130.00	10992	222.00	6962	316.00	3305	438.00	387
131.00	2719	223.00	11419	317.00	505	439.00	1514
132.00	1266	224.00	94944	320.00	431	440.00	1317
133.00	492	225.00	23736	321.00	2076	441.00	128520
134.00	4675	226.00	3457	322.00	1127	442.00	857280
135.00	10220	227.00	52840	323.00	18520	443.00	170368
136.00	4497	228.00	7809	324.00	2794	444.00	15963
137.00	5092	229.00	9762	325.00	309	445.00	848
138.00	1327	230.00	1264	326.00	233	446.00	173
139.00	1076	231.00	3301	327.00	4972	451.00	174
140.00	2088	232.00	941	328.00	1757	477.00	56
141.00	18848	233.00	925	329.00	614	489.00	68
142.00	5487	234.00	3567	330.00	157	493.00	181
143.00	3846	235.00	3435	331.00	201	509.00	406
144.00	804	236.00	2745	332.00	1575		

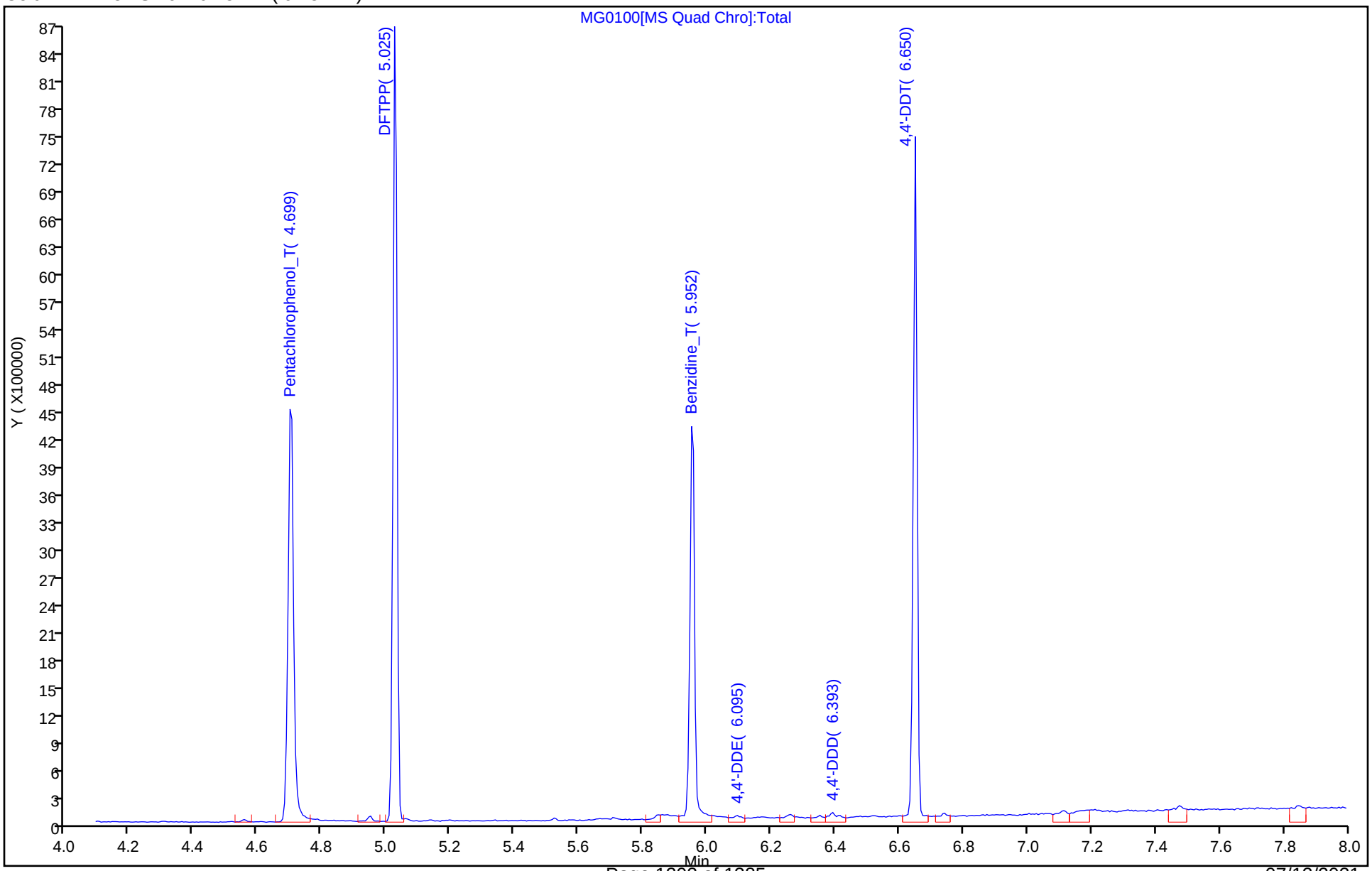
Report Date: 02-Jul-2021 11:44:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D

Injection Date:	02-Jul-2021 10:43:04	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

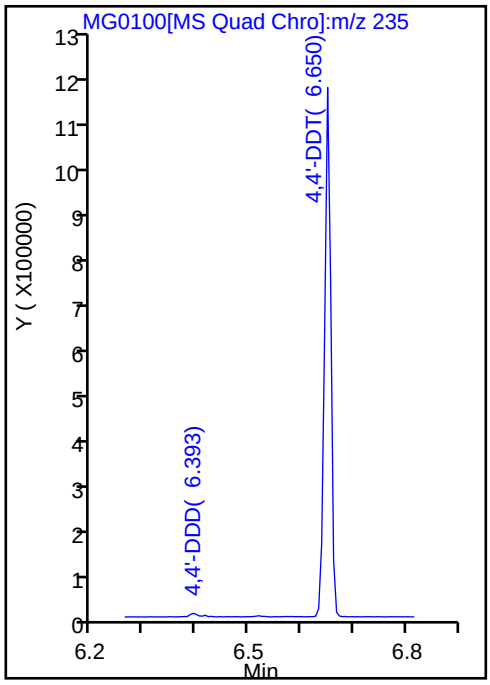


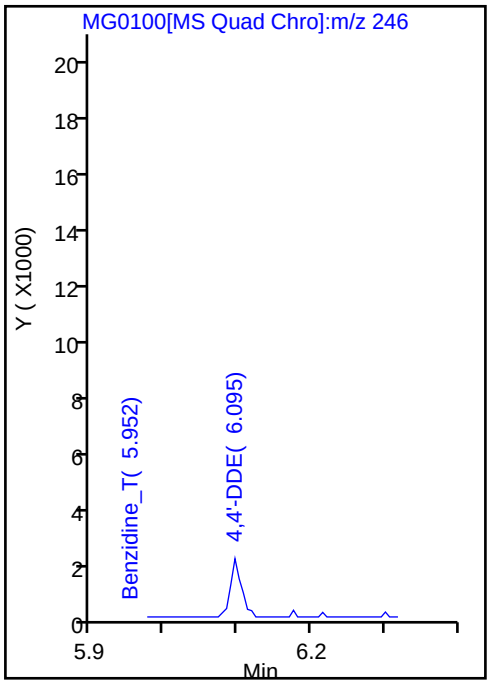
Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D
Injection Date: 02-Jul-2021 10:43:04 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

49 4,4'-DDT, Detector: MS Quad





SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 973514
47 4,4'-DDE, Area = 2334
48 4,4'-DDD, Area = 11110

%Breakdown: 1.36%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

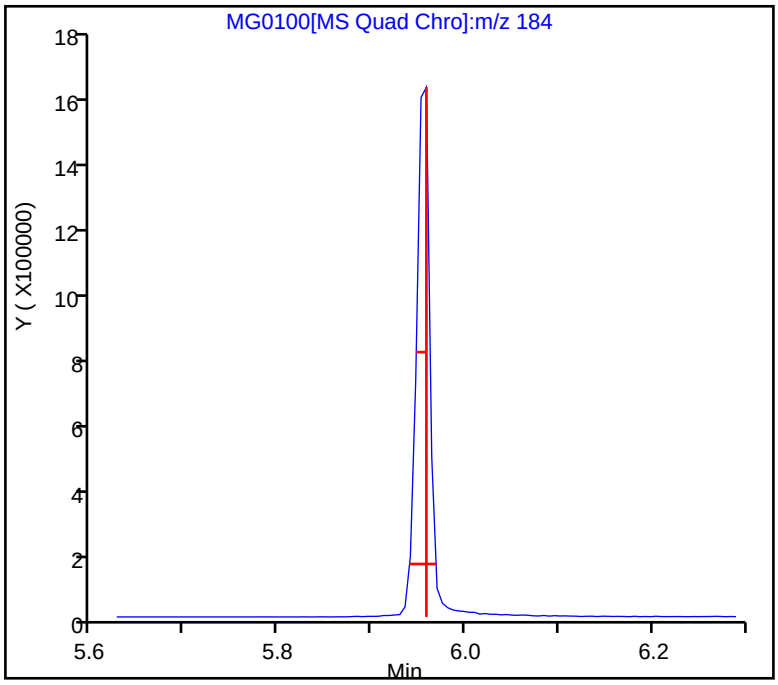
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0100.D
Injection Date: 02-Jul-2021 10:43:04 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.56, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

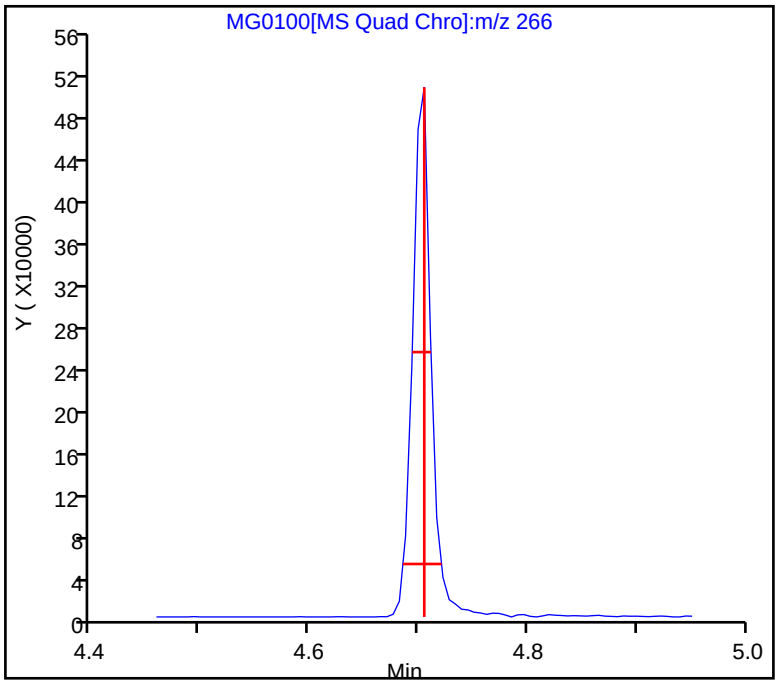
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Injection Date: 02-Jul-2021 10:43:04 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 0.80, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Jul-2021 04:22:56 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033555-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 10:58:20 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.694	4.694	0.000	0	537122	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.947	5.947	0.000	0	1151156	NR	NR	
47 4,4'-DDE	246	6.084	6.084	0.000	0	2872		NR	
48 4,4'-DDD	235	6.376	6.376	0.000	0	36838		NR	
49 4,4'-DDT	235	6.633	6.633	0.000	0	877132	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

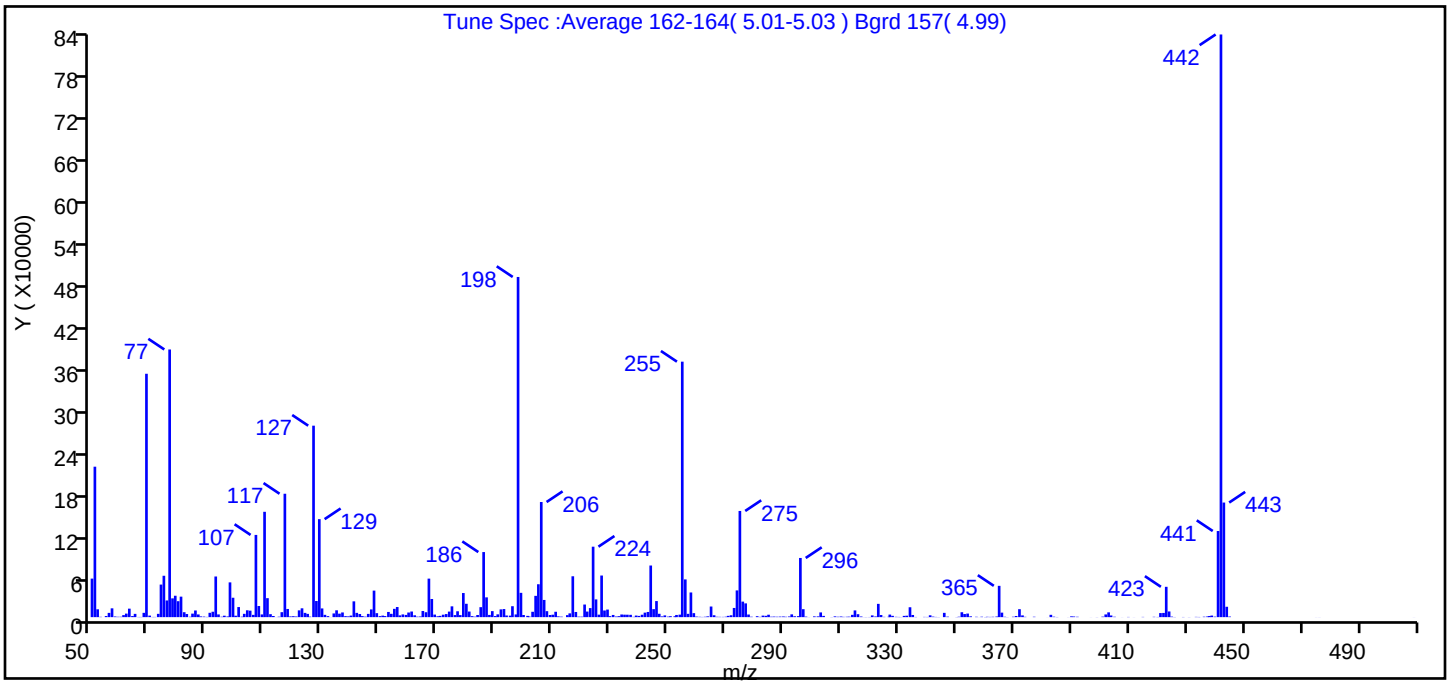
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D
Injection Date: 06-Jul-2021 04:22:56 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (58.4)
51	10-80% of the base peak	44.2
68	<2% of mass 69	1.3 (1.8)
69	Present	71.5
70	<2% of mass 69	0.5 (0.6)
127	10-80% of the base peak	56.3
197	<2% of mass 198	0.8
199	5-9% of mass 198	7.1
275	10-60% of the base peak	31.2
365	>1% of mass 198	9.2
441	present but <24% of mass 442	25.3 (14.8)
442	base peak, or >50% of 198	171.3
443	15-24% of mass 442	33.7 (19.7)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 06-Jul-2021 04:22:56
Spectrum: Tune Spec :Average 162-164(5.01-5.03) Bgrd 157(4.99)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	55440	141.00	22728	232.00	872	327.00	565
51.00	216448	142.00	6162	233.00	1405	327.00	3684
52.00	11296	143.00	4489	234.00	3821	328.00	1889
53.00	454	144.00	1491	235.00	3570	329.00	465
55.00	1598	145.00	700	236.00	3502	330.00	304
56.00	6126	146.00	4685	237.00	3335	331.00	167
57.00	12682	147.00	11113	238.00	448	332.00	1815
58.00	933	148.00	38176	239.00	2289	333.00	2073
59.00	530	149.00	5717	240.00	1772	334.00	14230
60.00	552	150.00	1454	241.00	3452	335.00	3116
61.00	2931	151.00	2174	242.00	6494	336.00	283
62.00	5083	152.00	1532	243.00	7451	339.00	348
63.00	12209	153.00	7480	244.00	74272	340.00	288
64.00	1595	154.00	4783	245.00	11508	341.00	2650
65.00	4712	155.00	11948	246.00	23112	342.00	760
66.00	275	156.00	14553	247.00	4830	343.00	303
67.00	274	157.00	2541	248.00	1068	344.00	182
68.00	6193	158.00	3912	249.00	2513	346.00	6173
69.00	350144	159.00	3205	250.00	750	347.00	743
70.00	2230	160.00	6645	251.00	1386	350.00	192
71.00	282	161.00	8103	252.00	1274	351.00	593
72.00	299	162.00	2679	253.00	3128	352.00	7067
73.00	4751	163.00	701	254.00	3589	353.00	4466
74.00	46856	164.00	954	255.00	367552	354.00	5147
75.00	59536	165.00	8836	256.00	54288	355.00	1186
76.00	24008	166.00	7067	257.00	4764	357.00	521
77.00	385088	167.00	55424	258.00	35496	358.00	68
78.00	27008	168.00	26112	259.00	5742	359.00	602
79.00	30784	169.00	3673	260.00	829	360.00	211
80.00	22936	170.00	1269	261.00	507	361.00	503
81.00	29488	171.00	1851	262.00	302	362.00	358
82.00	7104	172.00	3507	263.00	544	363.00	526
83.00	4480	173.00	4425	264.00	1125	364.00	874

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 06-Jul-2021 04:22:56
Spectrum: Tune Spec :Average 162-164(5.01-5.03) Bgrd 157(4.99)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	556	174.00	7980	265.00	15287	365.00	45032
85.00	5069	175.00	15541	266.00	2700	366.00	6478
86.00	9576	176.00	2976	267.00	549	367.00	538
87.00	3870	177.00	8468	268.00	431	368.00	172
88.00	1056	178.00	2926	269.00	368	370.00	601
89.00	777	179.00	34688	270.00	626	371.00	1654
90.00	340	180.00	19224	271.00	1866	372.00	11448
91.00	6238	181.00	8053	272.00	2686	373.00	2504
92.00	7783	182.00	1436	273.00	13214	374.00	459
93.00	58480	183.00	675	274.00	38464	377.00	570
94.00	3916	184.00	3088	275.00	152768	382.00	54
95.00	610	185.00	14360	276.00	22344	383.00	3346
96.00	2074	186.00	93624	277.00	19800	384.00	651
97.00	985	187.00	28464	278.00	3778	385.00	235
98.00	50016	188.00	3195	279.00	627	389.00	88
99.00	27912	189.00	8652	281.00	1365	390.00	1153
100.00	2039	190.00	1559	282.00	392	391.00	906
101.00	14506	191.00	4001	283.00	2203	392.00	549
102.00	657	192.00	11170	284.00	1915	397.00	66
103.00	4763	193.00	11628	285.00	3480	399.00	127
104.00	9863	194.00	2383	286.00	647	401.00	717
105.00	9326	195.00	2148	287.00	795	402.00	3900
106.00	3276	196.00	15719	288.00	601	403.00	6867
107.00	118288	197.00	3887	289.00	792	404.00	2383
108.00	15994	198.00	489408	290.00	933	405.00	561
109.00	3899	199.00	34968	291.00	537	408.00	70
110.00	151552	200.00	3076	292.00	973	410.00	293
111.00	27304	201.00	1831	293.00	3999	412.00	75
112.00	4262	202.00	957	294.00	1303	415.00	334
113.00	1645	203.00	7716	295.00	1446	419.00	479
114.00	80	204.00	30632	296.00	85144	420.00	277
115.00	619	205.00	47336	297.00	11449	421.00	5863
116.00	7144	206.00	165632	298.00	755	422.00	6041
117.00	177536	207.00	24744	299.00	106	423.00	43632

Report Date: 06-Jul-2021 10:58:21 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 06-Jul-2021 04:22:56
Spectrum: Tune Spec :Average 162-164(5.01-5.03) Bgrd 157(4.99)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	11759	208.00	8602	301.00	1087	424.00	8173
119.00	1060	209.00	3086	302.00	1067	425.00	761
120.00	1341	210.00	3499	303.00	6801	426.00	233
121.00	930	211.00	7737	304.00	1806	429.00	245
122.00	9759	212.00	1086	307.00	169	431.00	147
123.00	12709	213.00	699	308.00	1111	433.00	379
124.00	6143	215.00	2876	309.00	577	434.00	280
125.00	4694	216.00	5432	310.00	909	435.00	66
126.00	691	217.00	58800	311.00	422	436.00	643
127.00	275456	218.00	7432	312.00	551	437.00	1029
128.00	23200	219.00	722	313.00	676	438.00	1658
129.00	140992	220.00	702	314.00	3316	439.00	2250
130.00	12540	221.00	18152	315.00	9685	440.00	710
131.00	3318	222.00	8042	316.00	4223	441.00	123904
132.00	1451	223.00	13011	317.00	903	442.00	838272
133.00	93	224.00	101360	318.00	115	443.00	164864
134.00	5314	225.00	25536	319.00	172	444.00	14928
135.00	9839	226.00	3575	320.00	238	445.00	874
136.00	5009	227.00	59872	321.00	2493	475.00	66
137.00	6745	228.00	9570	322.00	956	476.00	74
138.00	1413	229.00	10919	323.00	19120	509.00	58
139.00	1117	230.00	1434	324.00	3043		
140.00	2235	231.00	3161	325.00	421		

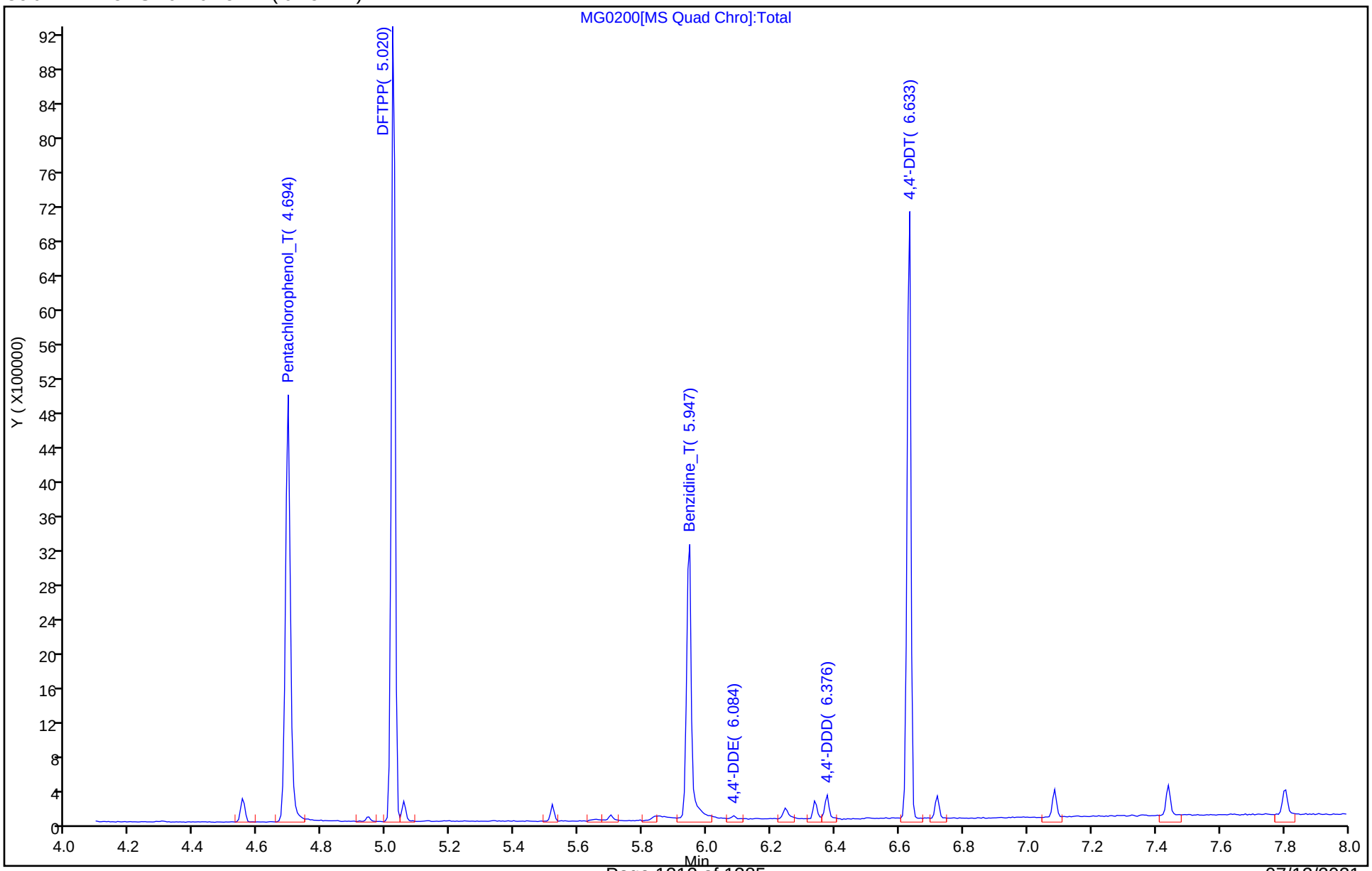
Report Date: 06-Jul-2021 10:58:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D

Injection Date:	06-Jul-2021 04:22:56	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D
Injection Date: 06-Jul-2021 04:22:56 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

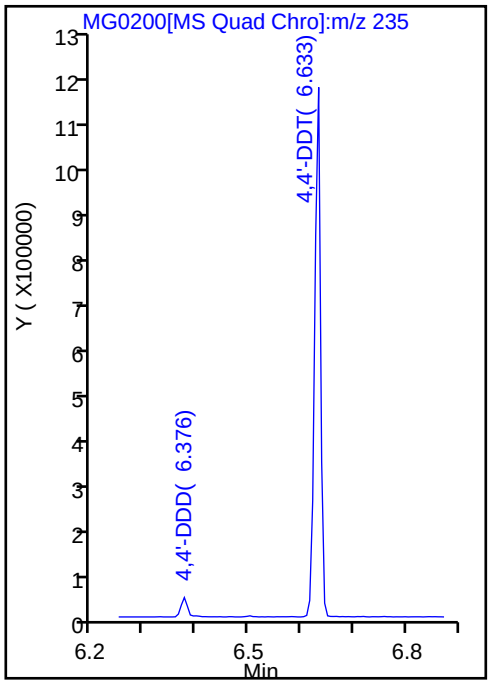
49 4,4'-DDT, Detector: MS Quad

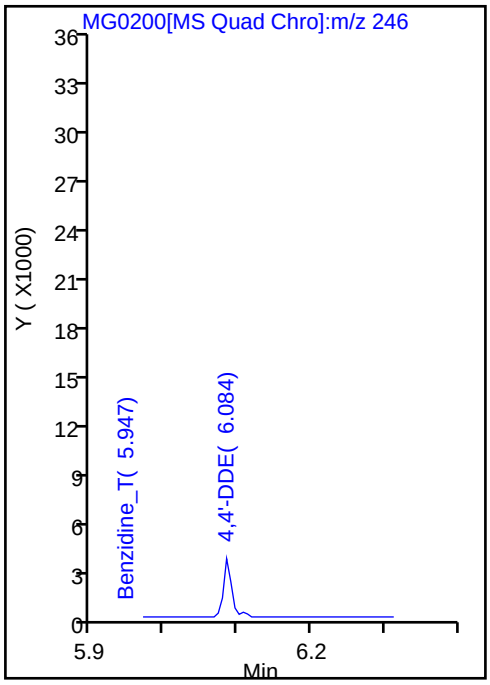
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 877132
47 4,4'-DDE, Area = 2872
48 4,4'-DDD, Area = 36838

%Breakdown: 4.33%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

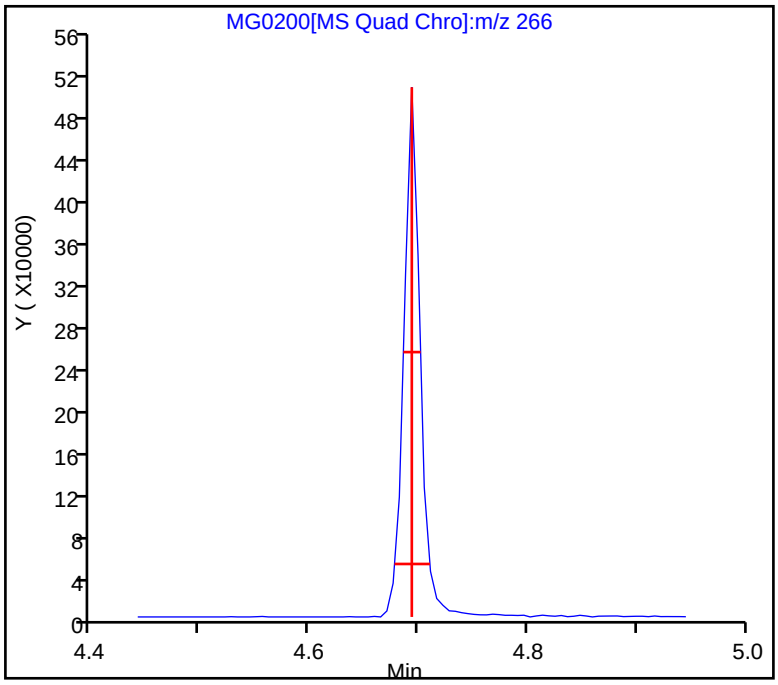
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D
Injection Date: 06-Jul-2021 04:22:56 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.06, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

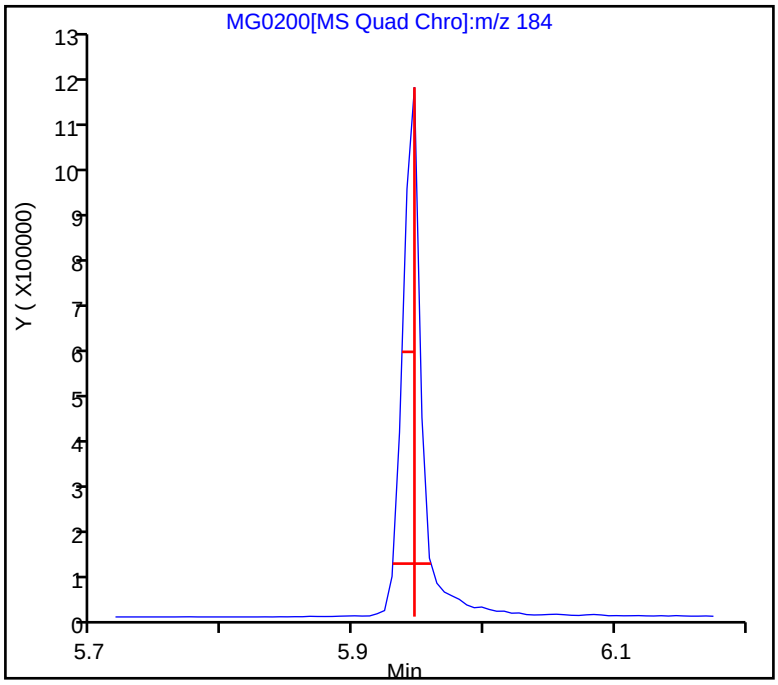
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210706-33555.b\MG0200.D
Injection Date: 06-Jul-2021 04:22:56 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.76, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 22-Jun-2021 05:58:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0032502-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 23-Jun-2021 03:49:13 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: gamblerj Date: 22-Jun-2021 06:58:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.646	4.646	0.000	96	5067291	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.939	5.939	0.000	98	10946885	NR	NR	e
49 4,4'-DDT	235	6.626	6.626	0.000	94	8470069	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

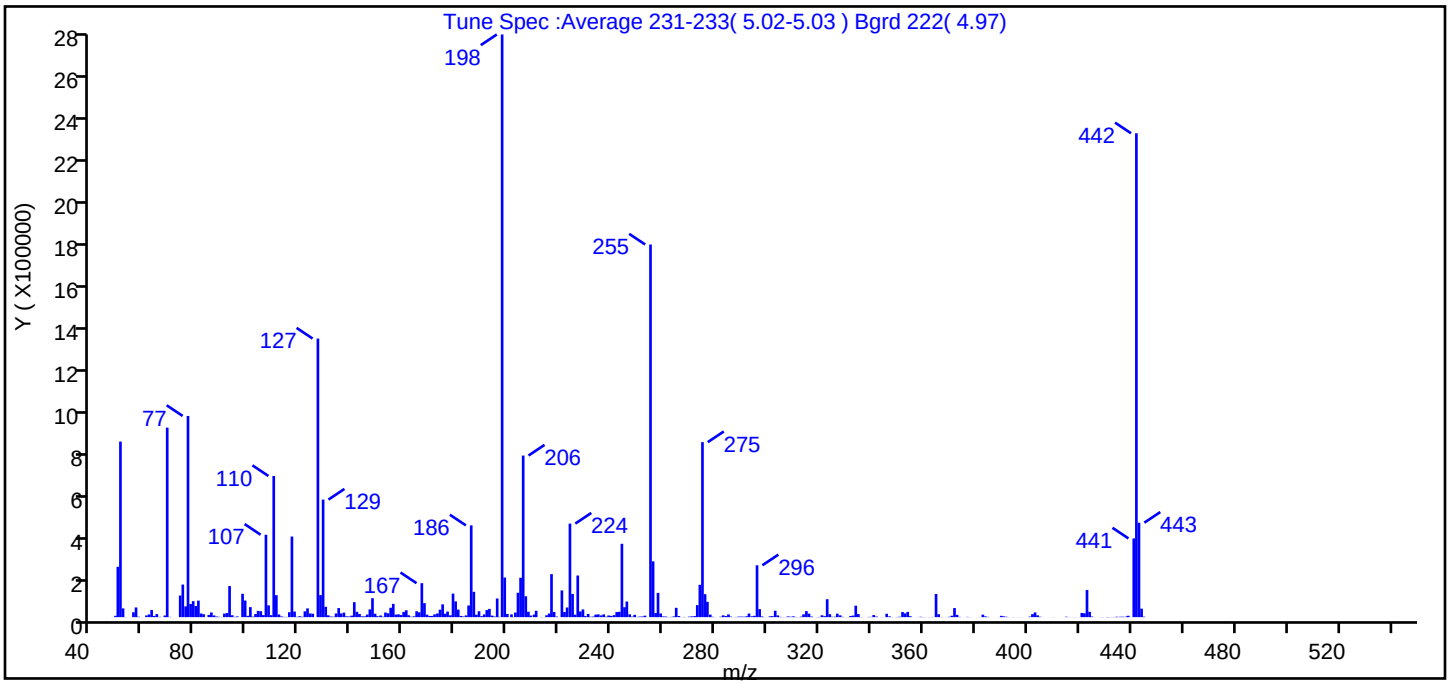
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D
Injection Date: 22-Jun-2021 05:58:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (120.4)
51	10-80% of the base peak	30.1
68	<2% of mass 69	0.3 (0.8)
69	Present	32.5
70	<2% of mass 69	0.0 (0.1)
127	10-80% of the base peak	47.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	30.0
365	>1% of mass 198	4.0
441	present but <24% of mass 442	13.5 (16.3)
442	base peak, or >50% of 198	83.0
443	15-24% of mass 442	16.2 (19.5)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 22-Jun-2021 05:58:30
Spectrum: Tune Spec :Average 231-233(5.02-5.03) Bgrd 222(4.97)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	96	151.00	7717	247.00	13398	345.00	273
48.00	328	152.00	2045	248.00	2360	346.00	15963
49.00	6431	153.00	21832	249.00	11060	347.00	3673
50.00	238720	154.00	18136	250.00	1397	348.00	506
51.00	832384	155.00	44408	251.00	2791	349.00	188
52.00	41536	156.00	63064	252.00	3034	350.00	908
53.00	405	157.00	12133	253.00	6963	351.00	1866
56.00	23232	158.00	13426	255.00	1766912	352.00	24104
57.00	45968	159.00	9881	256.00	264448	353.00	17976
58.00	1954	160.00	24640	257.00	19144	354.00	25064
59.00	188	161.00	32592	258.00	115120	355.00	4347
61.00	7957	162.00	8995	259.00	17528	356.00	217
62.00	12833	163.00	2116	260.00	3319	357.00	17
63.00	34152	164.00	4010	261.00	2865	358.00	316
64.00	5728	165.00	27960	262.00	587	359.00	1722
65.00	14333	166.00	22944	263.00	1207	360.00	612
66.00	1305	167.00	161088	264.00	3546	361.00	556
68.00	7627	168.00	66408	265.00	44240	362.00	509
69.00	898496	169.00	11779	266.00	5171	363.00	983
70.00	1144	170.00	5669	267.00	384	365.00	109856
74.00	102464	171.00	5790	268.00	1080	366.00	13786
75.00	154496	172.00	13098	269.00	151	367.00	738
76.00	51112	173.00	17288	270.00	2454	369.00	482
77.00	953984	174.00	35448	271.00	3678	370.00	1756
78.00	62608	175.00	60672	272.00	4908	371.00	6510
79.00	75848	176.00	16066	273.00	57016	372.00	43144
80.00	52672	177.00	26304	274.00	153408	373.00	10833
81.00	78352	178.00	8704	275.00	829824	374.00	1293
82.00	17384	179.00	111688	276.00	108928	375.00	141
83.00	13982	180.00	74776	277.00	72624	377.00	1283
85.00	10630	181.00	35704	278.00	11826	378.00	445
86.00	22192	182.00	5878	279.00	1674	379.00	75
87.00	8074	183.00	3011	280.00	450	380.00	116

Report Date: 23-Jun-2021 03:49:13 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 22-Jun-2021 05:58:30
Spectrum: Tune Spec :Average 231-233(5.02-5.03) Bgrd 222(4.97)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	2917	184.00	8114	282.00	2097	382.00	93
89.00	1607	185.00	55216	283.00	8563	382.00	371
90.00	495	186.00	435072	284.00	5346	383.00	11753
91.00	16720	187.00	120152	285.00	12963	384.00	3620
92.00	19416	188.00	11564	286.00	2583	385.00	1384
93.00	147392	189.00	28064	287.00	216	387.00	141
94.00	8981	190.00	4806	288.00	943	389.00	319
95.00	1324	191.00	12740	289.00	2564	390.00	6268
96.00	3402	192.00	33584	290.00	2529	391.00	3888
98.00	110696	193.00	39160	291.00	2077	392.00	1966
99.00	78768	194.00	7344	292.00	4171	393.00	392
100.00	6259	195.00	3039	293.00	16968	395.00	86
101.00	47544	196.00	88432	294.00	4070	395.00	467
102.00	2507	197.00	1236	295.00	6289	396.00	201
103.00	14636	198.00	2762752	296.00	245888	397.00	415
104.00	29856	199.00	187776	297.00	37944	398.00	189
105.00	28344	200.00	15059	298.00	3388	401.00	2547
106.00	9673	202.00	12984	299.00	559	402.00	14186
107.00	390720	202.00	621	300.00	166	403.00	22344
108.00	55880	203.00	21784	301.00	3873	404.00	8657
109.00	9312	204.00	115544	302.00	4693	405.00	1706
110.00	669312	205.00	186752	303.00	30336	406.00	234
111.00	104152	206.00	766208	304.00	8102	408.00	86
112.00	12597	207.00	98920	305.00	1386	409.00	128
113.00	3358	208.00	25688	306.00	494	410.00	428
114.00	1272	209.00	7462	307.00	347	411.00	119
115.00	1088	210.00	12043	308.00	3388	415.00	2079
116.00	23288	211.00	30192	309.00	2050	416.00	335
117.00	382208	213.00	861	310.00	3844	417.00	239
118.00	26432	214.00	349	311.00	896	418.00	401
119.00	1562	215.00	8936	312.00	556	419.00	373
120.00	4238	216.00	17040	313.00	2431	420.00	222
121.00	1877	217.00	203968	314.00	13389	421.00	19784
122.00	27520	218.00	24560	315.00	28272	422.00	18312

Report Date: 23-Jun-2021 03:49:13 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 22-Jun-2021 05:58:30
Spectrum: Tune Spec :Average 231-233(5.02-5.03) Bgrd 222(4.97)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	41472	219.00	2603	316.00	16400	423.00	128784
124.00	17592	221.00	126672	317.00	2836	424.00	25144
125.00	16107	222.00	24448	318.00	366	425.00	2696
127.00	1320960	223.00	45776	319.00	624	426.00	209
128.00	104528	224.00	443520	320.00	1143	427.00	132
129.00	557376	225.00	109776	321.00	8866	428.00	188
130.00	49104	226.00	11607	322.00	4668	429.00	688
131.00	8564	227.00	197376	323.00	84992	431.00	438
132.00	2874	228.00	26960	324.00	13797	431.00	819
133.00	2072	229.00	36520	325.00	1769	432.00	365
134.00	17520	230.00	5101	326.00	2175	433.00	679
135.00	42976	231.00	15068	327.00	16488	434.00	1377
136.00	17736	232.00	1988	328.00	8468	435.00	1576
137.00	21464	233.00	2846	329.00	1543	436.00	1963
138.00	3757	234.00	11862	330.00	288	437.00	2003
139.00	3157	235.00	13075	331.00	453	438.00	3700
140.00	7047	236.00	8275	332.00	5668	439.00	6648
141.00	71024	237.00	13099	333.00	7438	441.00	373184
142.00	25304	238.00	2032	334.00	54288	442.00	2294272
143.00	15150	239.00	7897	335.00	14442	443.00	447808
144.00	3828	240.00	5964	336.00	884	444.00	40216
145.00	3792	241.00	9471	337.00	318	445.00	2200
146.00	12238	242.00	24192	339.00	1238	447.00	103
147.00	36808	243.00	25456	340.00	1240	478.00	146
148.00	89800	244.00	347776	341.00	9843	542.00	60
149.00	16184	245.00	47024	342.00	2785		
150.00	4564	246.00	74016	344.00	420		

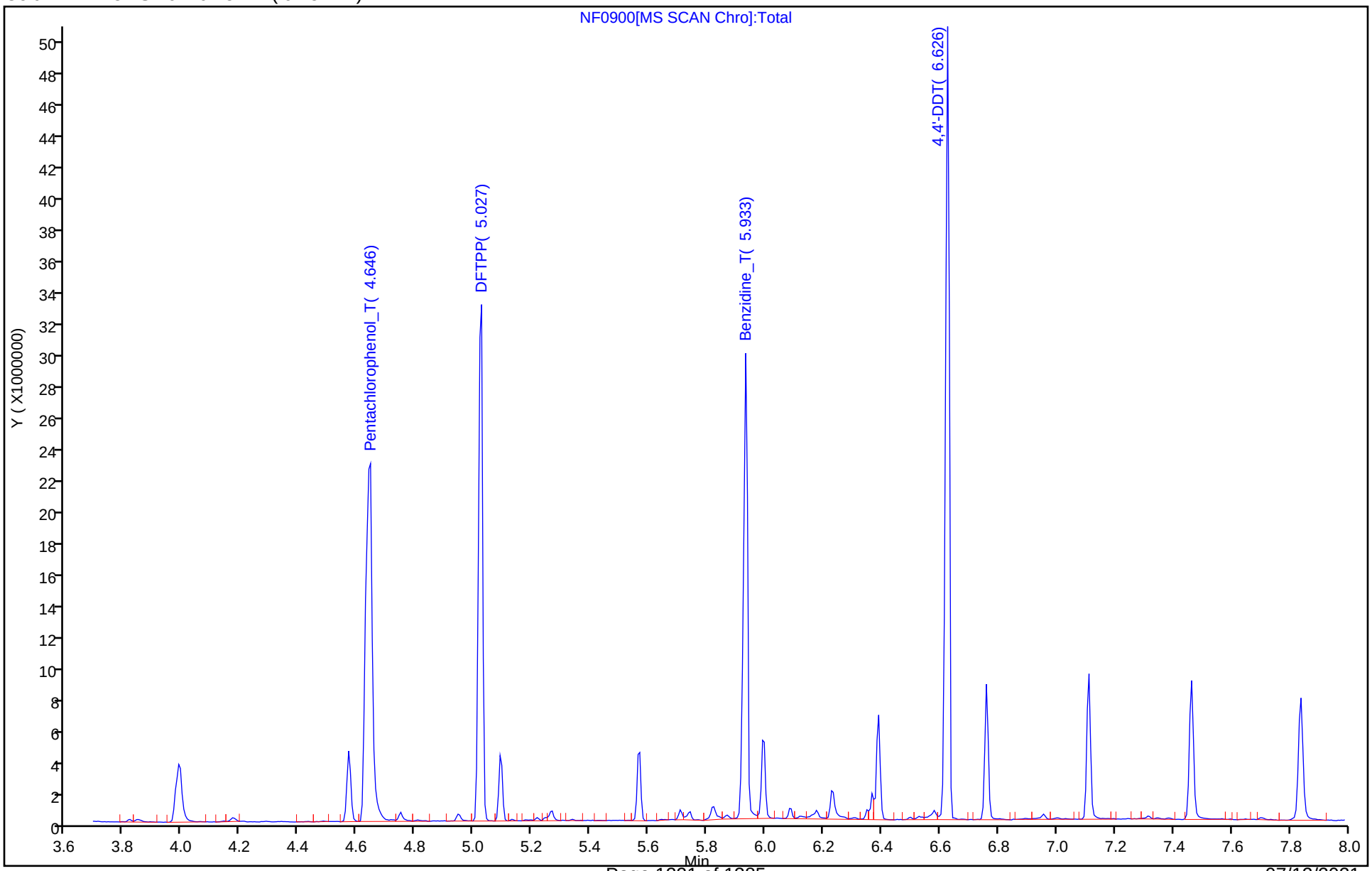
Report Date: 23-Jun-2021 03:49:13 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D

Injection Date:	22-Jun-2021 05:58:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D				
Injection Date:	22-Jun-2021 05:58:30	Instrument ID:	HP23263		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

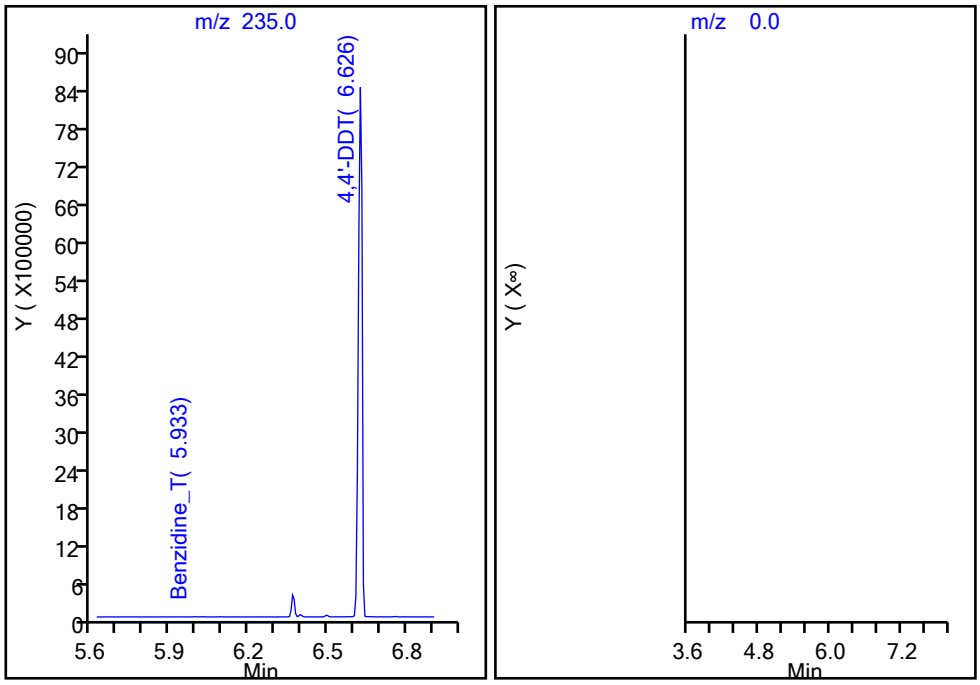
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 8470069
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

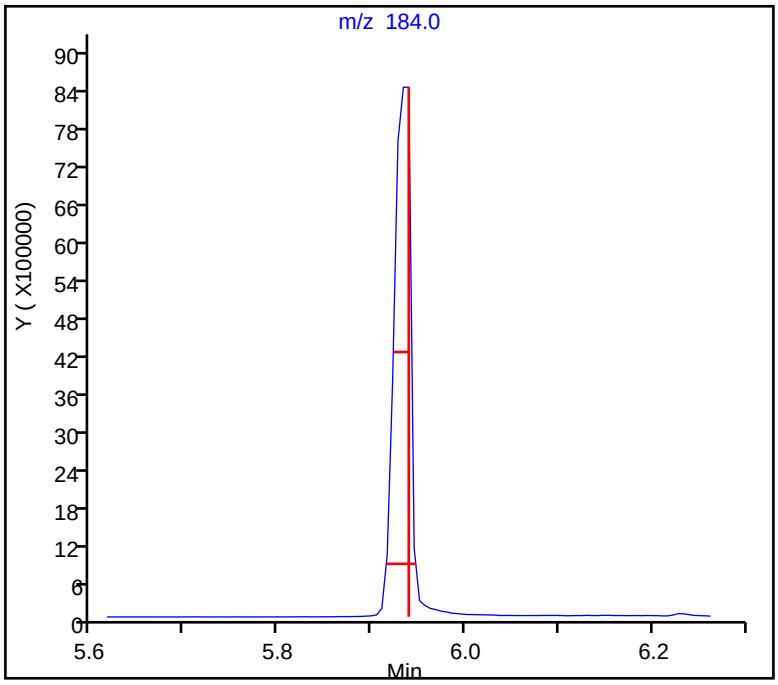
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D
Injection Date: 22-Jun-2021 05:58:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.008 (min.)
Front Width = 0.024 (min.)

Tailing Factor = 0.33, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

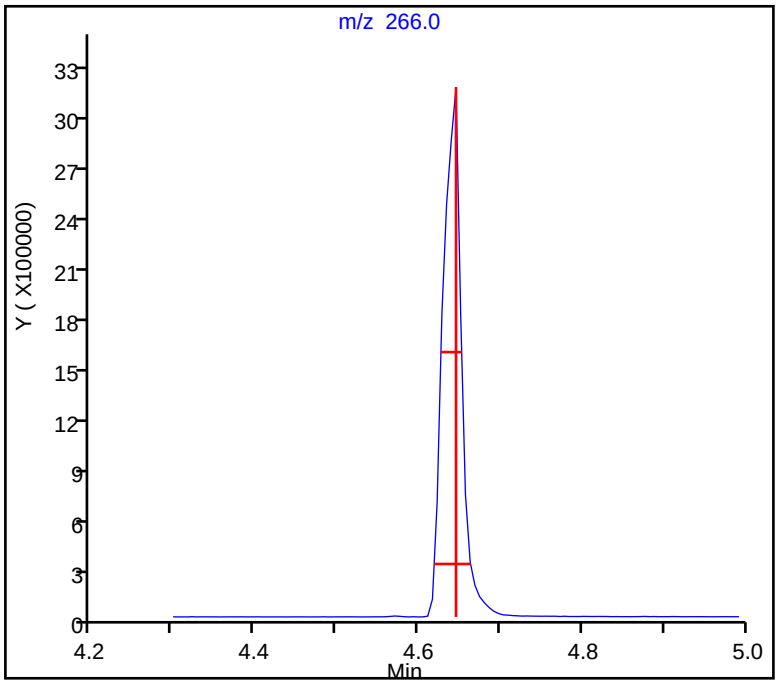
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0900.D
Injection Date: 22-Jun-2021 05:58:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.027 (min.)

Tailing Factor = 0.67, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Jun-2021 18:30:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033299-001
Operator ID: art12405 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Jun-2021 19:42:26 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: transuea Date: 30-Jun-2021 18:49:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.576	4.576	0.000	96	5711252	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.864	5.864	0.000	92	12288207	NR	NR	e
47 4,4'-DDE	246	6.014	6.014	0.000	76	38526		NR	
48 4,4'-DDD	235	6.292	6.292	0.000	92	155840		NR	
49 4,4'-DDT	235	6.551	6.551	0.000	84	9141936	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

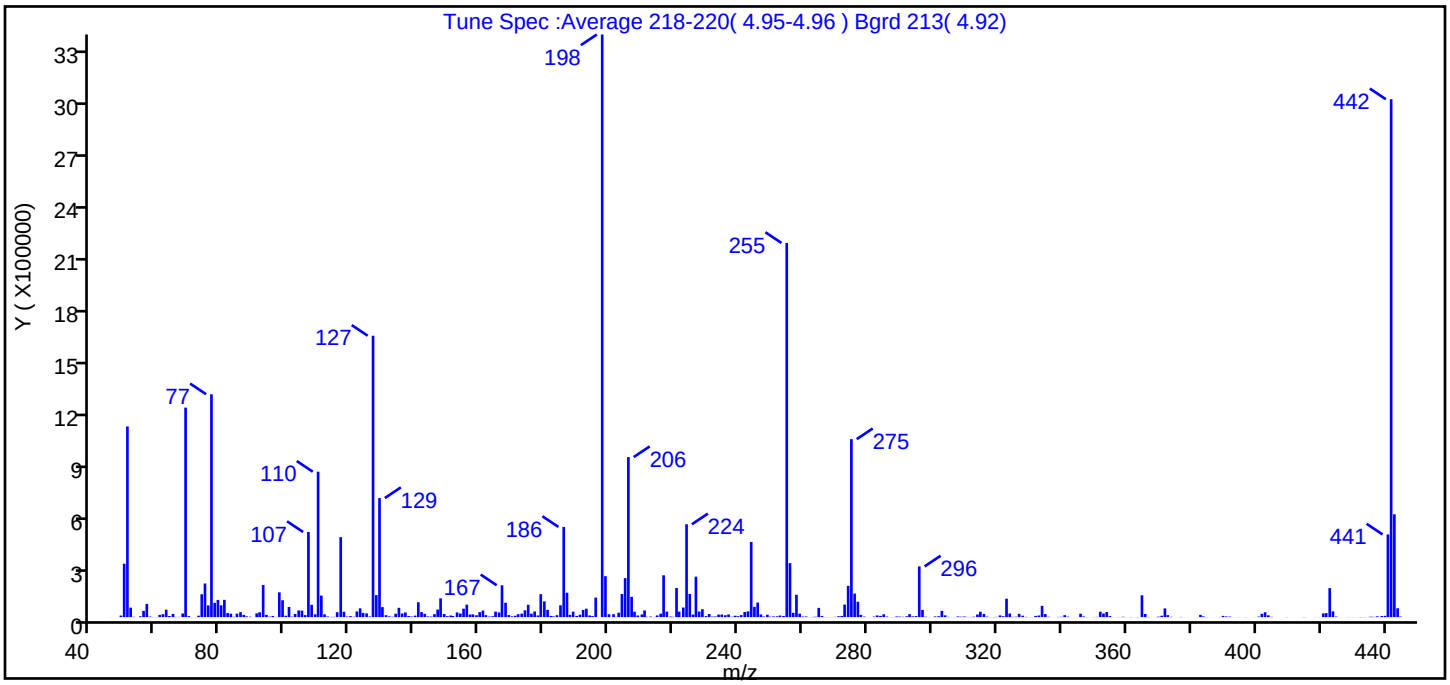
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D
Injection Date: 30-Jun-2021 18:30:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (112.5)
51	10-80% of the base peak	32.7
68	<2% of mass 69	0.6 (1.7)
69	Present	36.0
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	48.3
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	30.5
365	>1% of mass 198	3.8
441	present but <24% of mass 442	14.2 (16.0)
442	base peak, or >50% of 198	88.9
443	15-24% of mass 442	17.6 (19.9)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 30-Jun-2021 18:30:30
Spectrum: Tune Spec :Average 218-220(4.95-4.96) Bgrd 213(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 388

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	268	145.00	3309	243.00	32904	340.00	1849
49.00	8910	146.00	16752	244.00	426496	341.00	11322
50.00	303104	147.00	42952	245.00	58448	342.00	2892
51.00	1081344	148.00	106632	246.00	82736	343.00	361
52.00	53816	149.00	17920	247.00	15440	344.00	245
53.00	1899	150.00	5521	248.00	3790	345.00	260
54.00	193	151.00	9235	249.00	13733	346.00	19536
55.00	4956	152.00	6692	250.00	2996	347.00	4065
56.00	35488	153.00	26968	251.00	4119	348.00	776
57.00	75192	154.00	20472	252.00	4586	350.00	805
58.00	3285	155.00	48072	253.00	9127	351.00	1473
59.00	1035	156.00	70864	254.00	6765	352.00	30768
60.00	685	157.00	15204	255.00	2122240	353.00	20616
61.00	12867	158.00	15631	256.00	306304	354.00	29176
62.00	17096	159.00	10871	257.00	24496	355.00	6091
63.00	42024	160.00	28424	258.00	127064	356.00	311
64.00	6488	161.00	37392	259.00	19760	357.00	365
65.00	18320	162.00	11236	260.00	3408	358.00	862
66.00	1362	163.00	3414	261.00	3812	359.00	2134
67.00	1631	164.00	5052	262.00	708	360.00	462
68.00	20688	165.00	31120	263.00	1305	361.00	451
69.00	1188352	166.00	26424	264.00	2282	362.00	820
70.00	5819	167.00	180928	265.00	52496	363.00	672
71.00	547	168.00	81616	266.00	6751	364.00	692
72.00	674	169.00	12281	267.00	900	365.00	123976
73.00	8357	170.00	4713	268.00	556	366.00	18232
74.00	129728	171.00	7928	269.00	359	367.00	1181
75.00	190848	172.00	16648	270.00	1612	368.00	269
76.00	66656	173.00	19984	271.00	5153	369.00	374
77.00	1264128	174.00	38624	272.00	6898	370.00	2883
78.00	81048	175.00	70216	273.00	71088	371.00	8082
79.00	97648	176.00	19848	274.00	177472	372.00	49728
80.00	67200	177.00	32208	275.00	1009472	373.00	11252

Report Date: 30-Jun-2021 19:42:27 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 30-Jun-2021 18:30:30
Spectrum: Tune Spec :Average 218-220(4.95-4.96) Bgrd 213(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 388

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	97960	178.00	9748	276.00	133888	374.00	1810
82.00	23384	179.00	130352	277.00	87384	375.00	70
83.00	19648	180.00	89288	278.00	12996	377.00	1259
84.00	1949	181.00	41376	279.00	3052	378.00	290
85.00	19728	182.00	6982	280.00	322	379.00	179
86.00	28272	183.00	4222	281.00	176	382.00	280
87.00	13058	184.00	11087	282.00	3191	383.00	13138
88.00	4363	185.00	67240	283.00	9661	384.00	4066
89.00	2515	186.00	511680	284.00	7266	385.00	860
90.00	237	187.00	138624	285.00	15968	386.00	253
91.00	21320	188.00	13046	286.00	3515	387.00	164
92.00	27496	189.00	31024	287.00	317	388.00	102
93.00	182400	190.00	6977	288.00	753	389.00	593
94.00	12773	191.00	14005	289.00	3796	390.00	7234
95.00	2902	192.00	40712	290.00	3119	391.00	3863
96.00	6834	193.00	47952	291.00	2081	392.00	3144
97.00	1058	194.00	9297	292.00	4768	393.00	362
98.00	140672	195.00	5961	293.00	16776	395.00	581
99.00	95904	196.00	110984	294.00	4468	396.00	63
100.00	7947	198.00	3304448	295.00	6077	397.00	689
101.00	57688	199.00	232256	296.00	287744	398.00	85
102.00	2995	200.00	16528	297.00	40968	400.00	92
103.00	17864	201.00	16824	298.00	2468	401.00	2956
104.00	38224	202.00	1692	299.00	571	402.00	19040
105.00	37208	203.00	25096	300.00	382	403.00	27688
106.00	11584	204.00	131456	301.00	4048	404.00	10158
107.00	482880	205.00	221184	302.00	5403	405.00	1912
108.00	69896	206.00	907840	303.00	35360	406.00	51
109.00	15983	207.00	115072	304.00	10184	407.00	61
110.00	824832	208.00	30736	305.00	1515	410.00	824
111.00	122080	209.00	9333	306.00	213	411.00	117
112.00	15878	210.00	15384	307.00	520	414.00	63
113.00	3976	211.00	38080	308.00	4129	415.00	966
114.00	1451	212.00	2113	309.00	2487	416.00	254

Report Date: 30-Jun-2021 19:42:27 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 30-Jun-2021 18:30:30
Spectrum: Tune Spec :Average 218-220(4.95-4.96) Bgrd 213(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 388

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	1710	213.00	3460	310.00	3589	418.00	272
116.00	28032	214.00	1232	311.00	1159	419.00	217
117.00	453824	215.00	9683	312.00	1101	420.00	836
118.00	30768	216.00	19840	313.00	2596	421.00	21056
119.00	3402	217.00	237248	314.00	15068	422.00	22808
120.00	5869	218.00	31296	315.00	30560	423.00	164672
121.00	2150	219.00	3163	316.00	18456	424.00	32808
122.00	32360	220.00	2104	317.00	3218	425.00	3190
123.00	49912	221.00	165376	318.00	666	426.00	73
124.00	23784	222.00	31304	319.00	916	427.00	219
125.00	21328	223.00	54496	320.00	1526	429.00	398
126.00	3723	224.00	526656	321.00	9866	429.00	246
127.00	1595904	225.00	131328	322.00	5144	430.00	737
128.00	124872	226.00	14537	323.00	104568	431.00	391
129.00	675456	227.00	229568	324.00	20544	432.00	622
130.00	56760	228.00	32008	325.00	1625	433.00	592
131.00	11168	229.00	44992	326.00	2560	434.00	881
132.00	4598	230.00	6029	327.00	18616	435.00	1882
133.00	2234	231.00	17840	328.00	8142	436.00	1995
134.00	19328	232.00	3220	329.00	1610	437.00	1461
135.00	53056	233.00	3696	330.00	634	438.00	4765
136.00	20792	234.00	14507	331.00	595	439.00	6108
137.00	27000	235.00	14918	332.00	7123	440.00	7439
138.00	6245	236.00	10770	333.00	9233	441.00	468992
139.00	3671	237.00	15224	334.00	64128	442.00	2937344
140.00	8453	238.00	2268	335.00	17272	443.00	583104
141.00	84488	239.00	7940	336.00	2221	444.00	50352
142.00	28624	240.00	5432	337.00	389	445.00	3320
143.00	18776	241.00	11634	338.00	114	446.00	28
144.00	4254	242.00	29072	339.00	1439	447.00	114

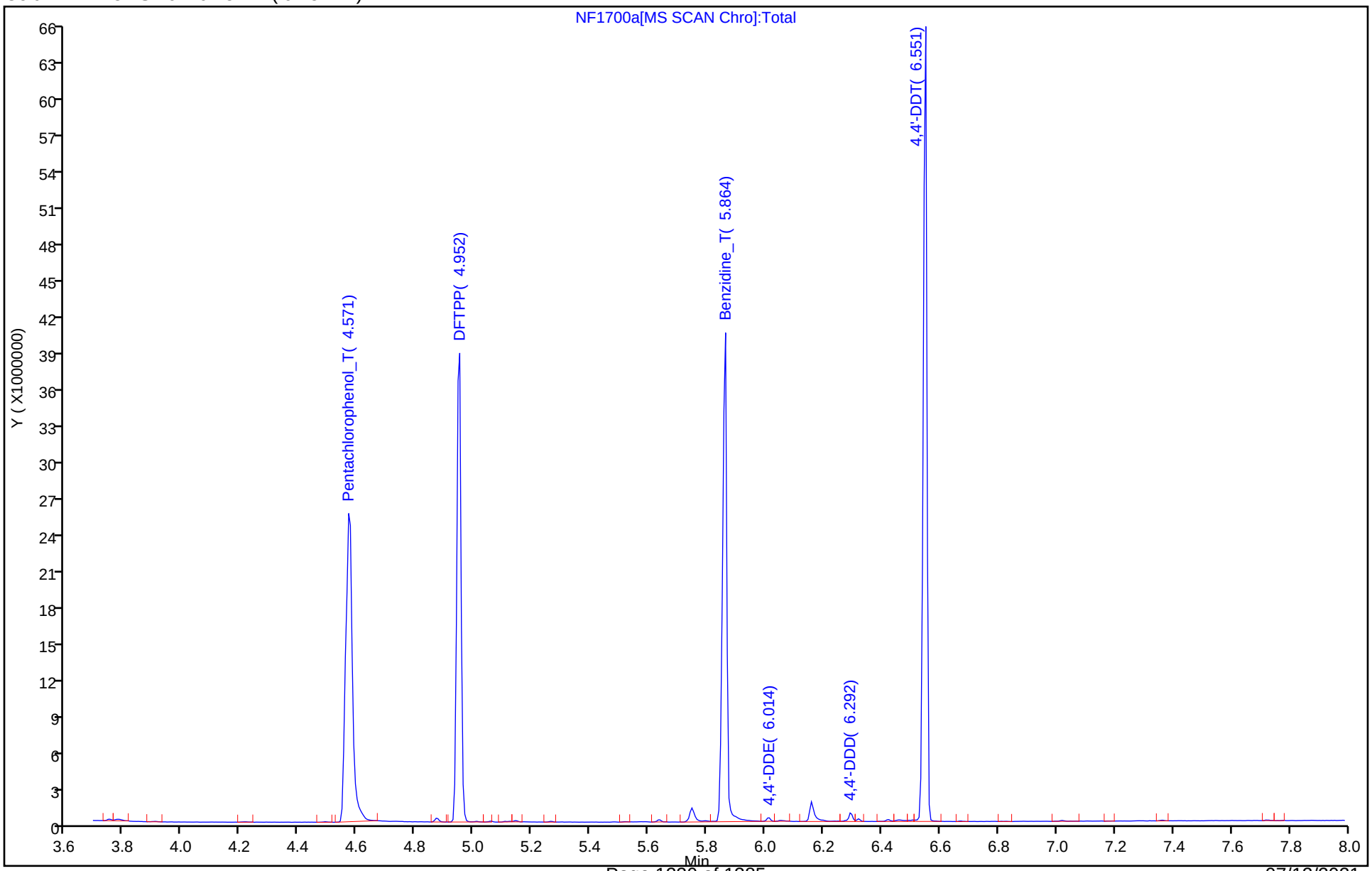
Report Date: 30-Jun-2021 19:42:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D

Injection Date:	30-Jun-2021 18:30:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D
Injection Date: 30-Jun-2021 18:30:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

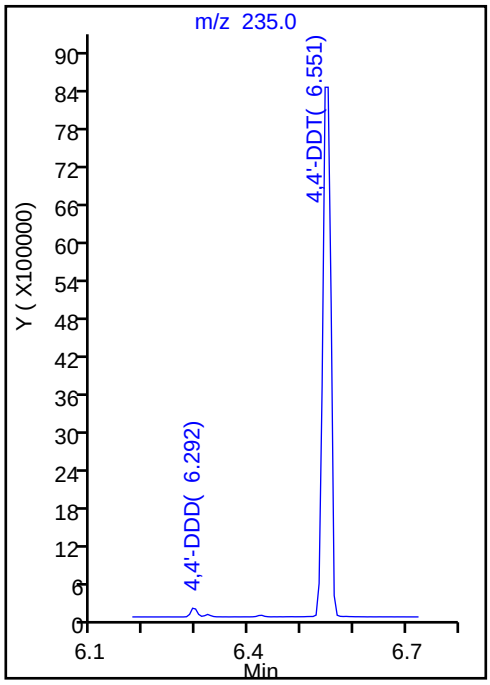
49 4,4'-DDT, Detector: MS SCAN

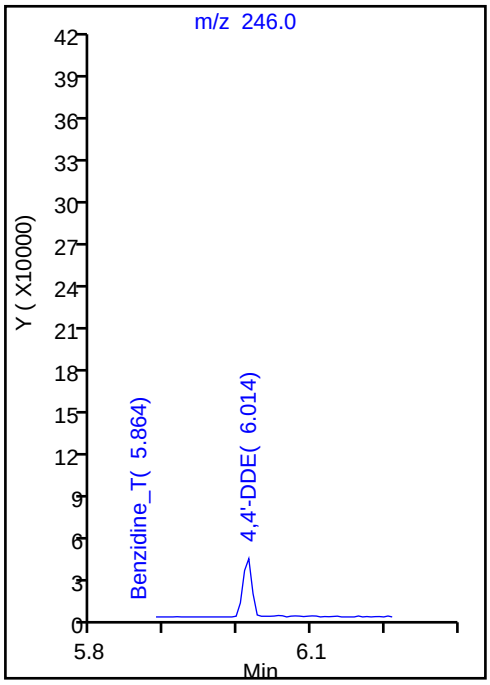
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 9141936
47 4,4'-DDE, Area = 38526
48 4,4'-DDD, Area = 155840

%Breakdown: 2.08%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

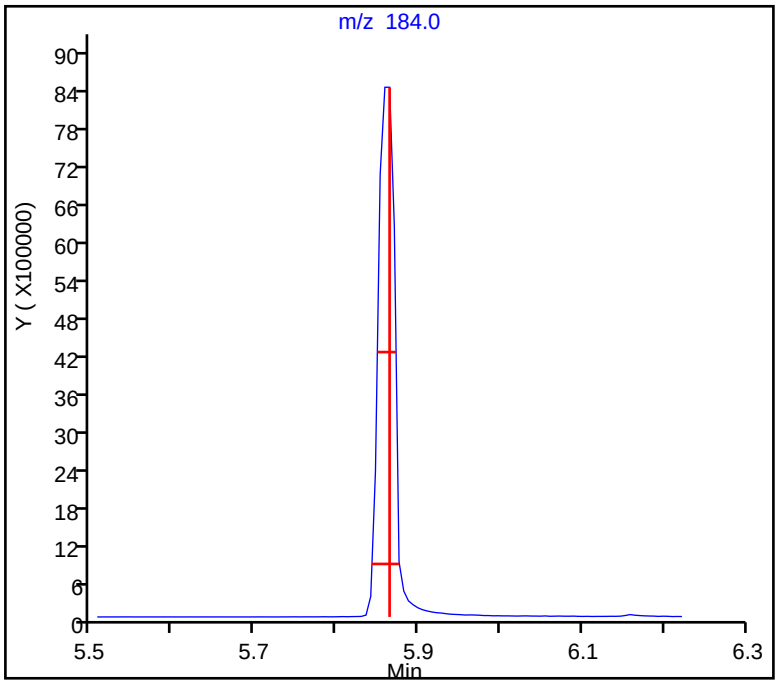
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D
Injection Date: 30-Jun-2021 18:30:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 0.55, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

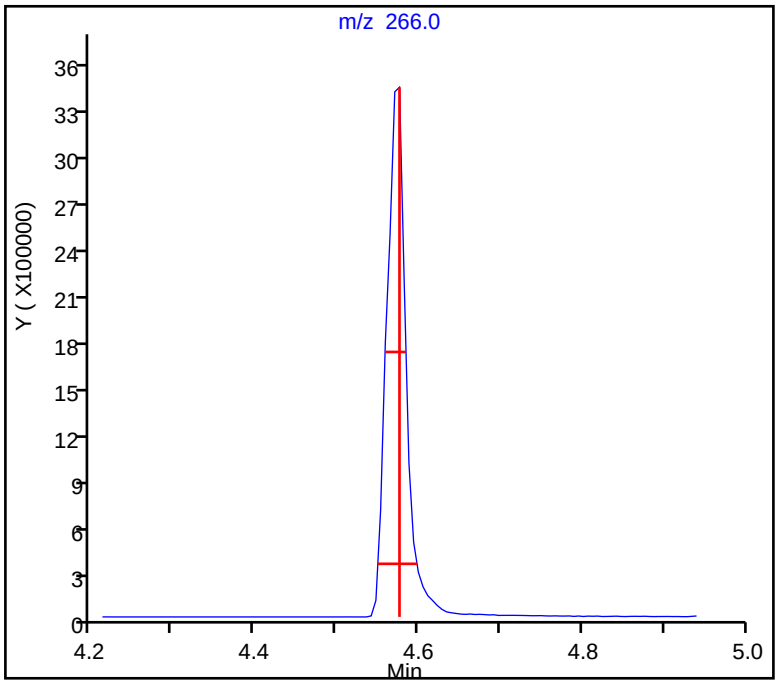
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1700a.D
Injection Date: 30-Jun-2021 18:30:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.027 (min.)

Tailing Factor = 0.78, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Jul-2021 08:04:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033354-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 08:58:46 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.582	4.582	0.000	97	7526196	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.881	5.881	0.000	96	12838047	NR	NR	e
47 4,4'-DDE	246	6.026	6.026	0.000	75	46355		NR	
48 4,4'-DDD	235	6.309	6.309	0.000	92	403708		NR	
49 4,4'-DDT	235	6.569	6.569	0.000	88	10702741	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

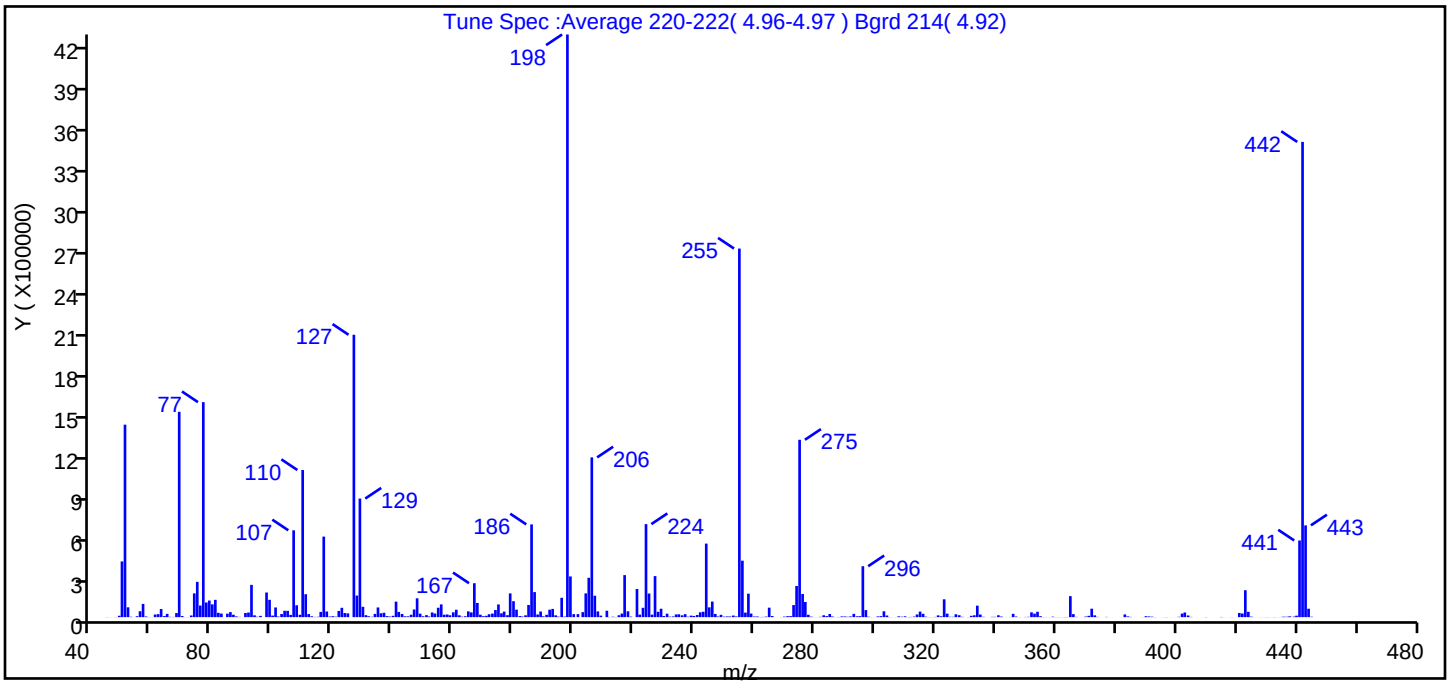
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D
Injection Date: 01-Jul-2021 08:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (122.6)
51	10-80% of the base peak	33.0
68	<2% of mass 69	0.7 (2.0)
69	Present	35.2
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	48.5
197	<2% of mass 198	0.1
199	5-9% of mass 198	7.0
275	10-60% of the base peak	30.4
365	>1% of mass 198	3.6
441	present but <24% of mass 442	13.2 (16.1)
442	base peak, or >50% of 198	81.6
443	15-24% of mass 442	15.8 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 01-Jul-2021 08:04:30
Spectrum: Tune Spec :Average 220-222(4.96-4.97) Bgrd 214(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	977	144.00	6161	243.00	38952	341.00	13641
46.00	364	145.00	5891	244.00	530432	342.00	4282
48.00	1003	146.00	17496	245.00	70680	343.00	327
49.00	9886	147.00	55288	246.00	112376	344.00	267
50.00	401792	148.00	135872	247.00	22968	345.00	623
51.00	1388032	149.00	24824	248.00	4864	346.00	23832
52.00	70912	150.00	6334	249.00	16776	347.00	4378
53.00	2634	151.00	14556	250.00	3739	348.00	834
54.00	272	152.00	5103	251.00	4948	349.00	91
55.00	6617	153.00	33704	252.00	4716	350.00	1380
56.00	42592	154.00	26224	253.00	11595	351.00	2238
57.00	95216	155.00	67744	254.00	4962	352.00	34720
58.00	4888	156.00	91968	255.00	2657792	353.00	25152
59.00	1080	157.00	17640	256.00	406976	354.00	38792
60.00	444	158.00	19272	257.00	32792	355.00	6802
61.00	18720	159.00	13488	258.00	169152	356.00	893
62.00	21616	160.00	34848	259.00	25816	357.00	636
63.00	58528	161.00	53512	260.00	4615	358.00	543
64.00	7927	162.00	13219	261.00	4870	359.00	3293
65.00	23496	163.00	3444	262.00	1044	360.00	771
66.00	2258	164.00	6313	263.00	1815	361.00	911
67.00	1676	165.00	41632	264.00	3963	362.00	569
68.00	29472	166.00	34192	265.00	68352	363.00	1178
69.00	1480704	167.00	244672	266.00	8087	364.00	1339
70.00	7848	168.00	102408	267.00	258	365.00	151360
71.00	618	169.00	17736	269.00	740	366.00	21664
72.00	653	170.00	6986	270.00	3809	367.00	1766
73.00	11934	171.00	9838	271.00	7064	369.00	198
74.00	171520	172.00	20992	272.00	7283	370.00	4160
75.00	254464	173.00	25728	273.00	87160	371.00	9452
76.00	83816	174.00	51264	274.00	224704	372.00	60968
77.00	1550336	175.00	91616	275.00	1278976	373.00	12922
78.00	105680	176.00	27640	276.00	166976	374.00	2022

Report Date: 01-Jul-2021 08:58:46 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 01-Jul-2021 08:04:30
Spectrum: Tune Spec :Average 220-222(4.96-4.97) Bgrd 214(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	119728	177.00	40192	277.00	109528	375.00	184
80.00	92232	178.00	14067	278.00	16992	377.00	1631
81.00	124768	179.00	171328	279.00	3484	378.00	167
82.00	31224	180.00	115128	280.00	510	379.00	153
83.00	25816	181.00	53872	281.00	544	382.00	218
84.00	225	182.00	7800	282.00	2265	382.00	249
85.00	25160	183.00	4450	283.00	13436	383.00	19440
86.00	36256	184.00	13217	284.00	7526	384.00	5314
87.00	17488	185.00	87688	285.00	22560	385.00	1800
88.00	5166	186.00	668928	286.00	4757	386.00	147
89.00	1840	187.00	180608	287.00	495	388.00	52
90.00	92	188.00	19072	288.00	1287	389.00	689
91.00	30064	189.00	40704	289.00	5061	390.00	6849
92.00	33360	190.00	5834	290.00	4845	391.00	5112
93.00	232704	191.00	17200	291.00	2604	392.00	3459
94.00	13172	192.00	53896	292.00	5186	393.00	905
95.00	2933	193.00	59480	293.00	23728	395.00	292
96.00	9139	194.00	13108	294.00	5944	396.00	484
98.00	177792	195.00	3839	295.00	6856	397.00	972
99.00	124864	196.00	139520	296.00	367232	398.00	172
100.00	11243	197.00	3974	297.00	50848	399.00	141
101.00	69840	198.00	4201472	298.00	3179	400.00	136
102.00	4368	199.00	293568	299.00	664	401.00	2511
103.00	22640	200.00	21752	300.00	451	402.00	25632
104.00	45896	201.00	21752	301.00	5368	403.00	33512
105.00	45544	203.00	36040	302.00	7055	404.00	12071
106.00	16104	204.00	171392	303.00	42280	405.00	1767
107.00	626176	205.00	283904	304.00	11669	409.00	213
108.00	85648	206.00	1152000	305.00	1013	410.00	1057
109.00	17208	207.00	154368	306.00	281	411.00	52
110.00	1060864	208.00	41128	307.00	583	415.00	1382
111.00	165312	209.00	10983	308.00	5675	416.00	496
112.00	22056	211.00	46168	309.00	3186	417.00	169
113.00	6119	212.00	1232	310.00	5917	418.00	421

Report Date: 01-Jul-2021 08:58:46 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 01-Jul-2021 08:04:30
Spectrum: Tune Spec :Average 220-222(4.96-4.97) Bgrd 214(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 384

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	1668	213.00	3022	311.00	1014	419.00	613
115.00	2708	214.00	1289	312.00	1604	420.00	210
116.00	37624	215.00	13600	313.00	3812	421.00	30120
117.00	580800	216.00	25616	314.00	19208	422.00	26312
118.00	40624	217.00	303040	315.00	40008	423.00	193984
119.00	4465	218.00	42128	316.00	24016	424.00	38456
120.00	6852	219.00	3672	317.00	3571	425.00	3698
121.00	3370	221.00	203136	318.00	870	426.00	348
122.00	44776	222.00	18200	319.00	590	427.00	163
123.00	67456	223.00	67376	320.00	1678	428.00	592
124.00	29648	224.00	670848	321.00	12748	429.00	555
125.00	27192	225.00	170496	322.00	6149	430.00	711
127.00	2036224	226.00	17760	323.00	128712	431.00	648
128.00	155584	227.00	295872	324.00	25384	432.00	441
129.00	854976	228.00	38560	325.00	2612	433.00	772
130.00	74520	229.00	60608	326.00	2470	434.00	664
131.00	14031	230.00	8051	327.00	20856	435.00	2444
132.00	6579	231.00	24880	328.00	13789	436.00	2830
133.00	2822	232.00	3557	329.00	2540	437.00	3173
134.00	23144	233.00	5118	330.00	258	438.00	5732
135.00	69904	234.00	19424	331.00	760	439.00	3994
136.00	28048	235.00	20464	332.00	9621	440.00	10598
137.00	31544	236.00	12945	333.00	13467	441.00	552896
138.00	7216	237.00	21536	334.00	82856	442.00	3426816
139.00	4353	238.00	3292	335.00	18936	443.00	661824
140.00	9658	239.00	10948	336.00	2445	444.00	60680
141.00	111888	240.00	8555	337.00	201	445.00	2952
142.00	37576	241.00	15501	339.00	2088	447.00	54
143.00	23048	242.00	34808	340.00	2234	478.00	80

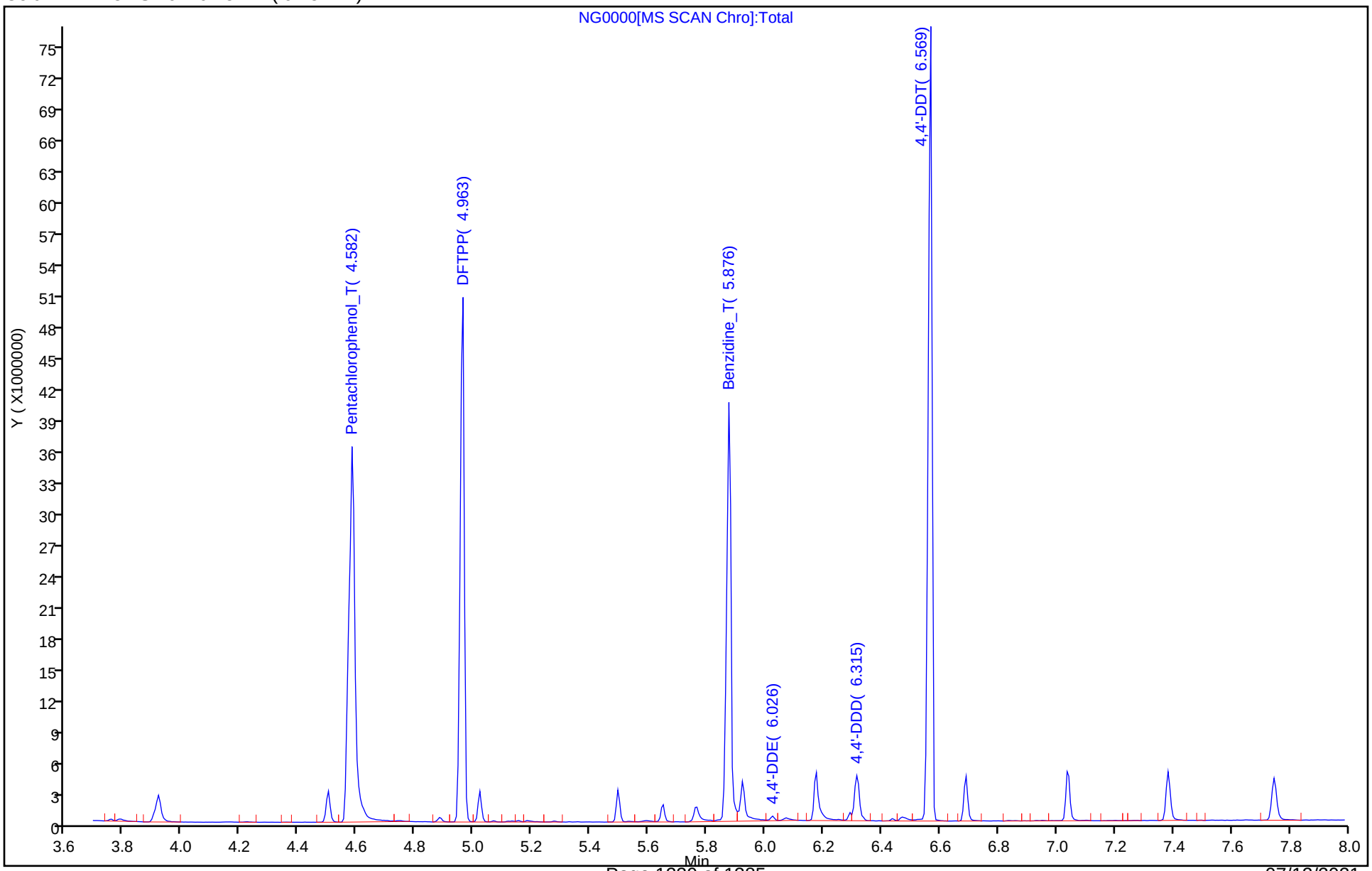
Report Date: 01-Jul-2021 08:58:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D

Injection Date:	01-Jul-2021 08:04:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D
Injection Date: 01-Jul-2021 08:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

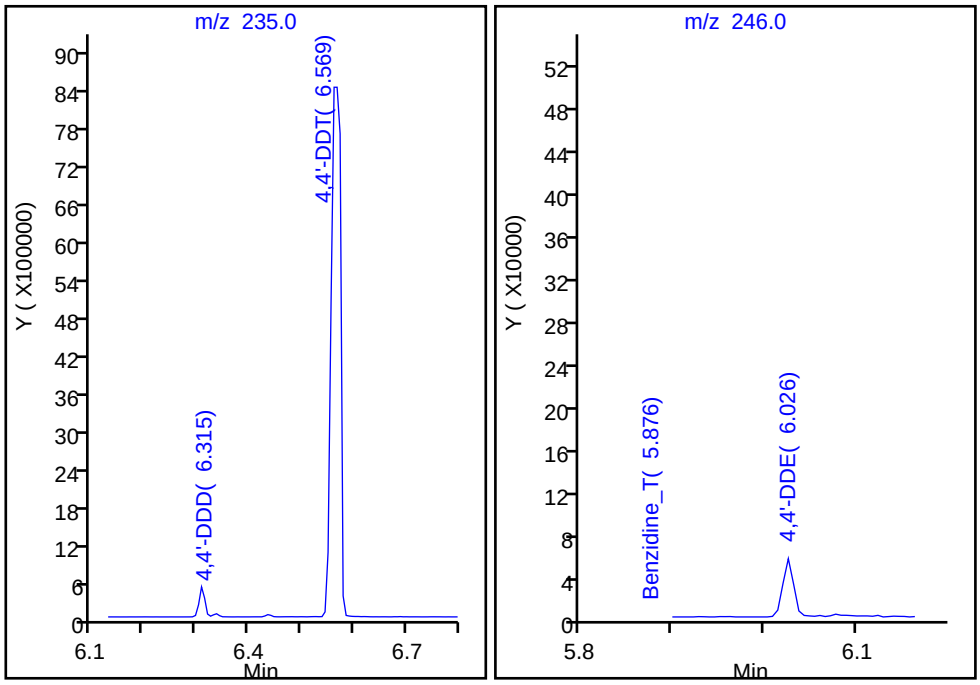
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 10702741
47 4,4'-DDE, Area = 46355
48 4,4'-DDD, Area = 403708

%Breakdown: 4.04%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

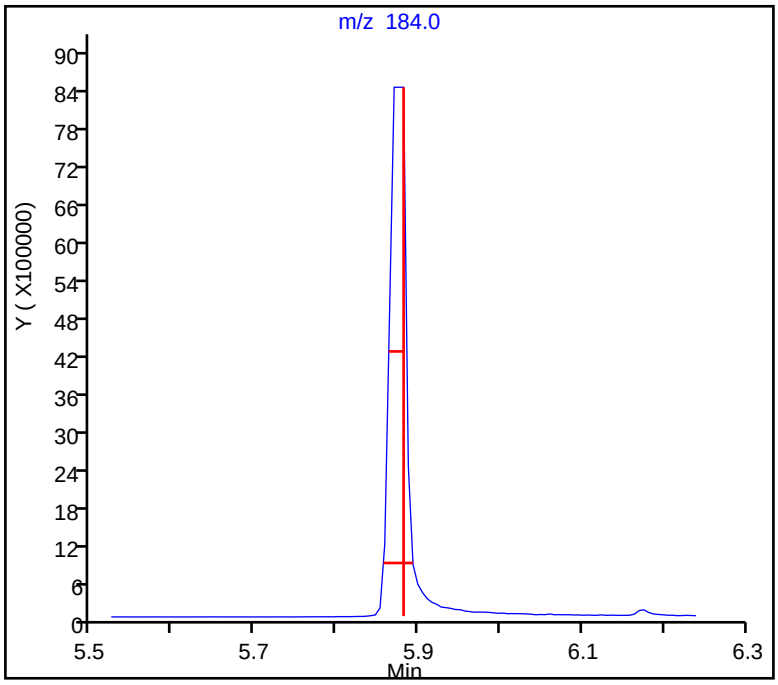
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D
Injection Date: 01-Jul-2021 08:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 0.44, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

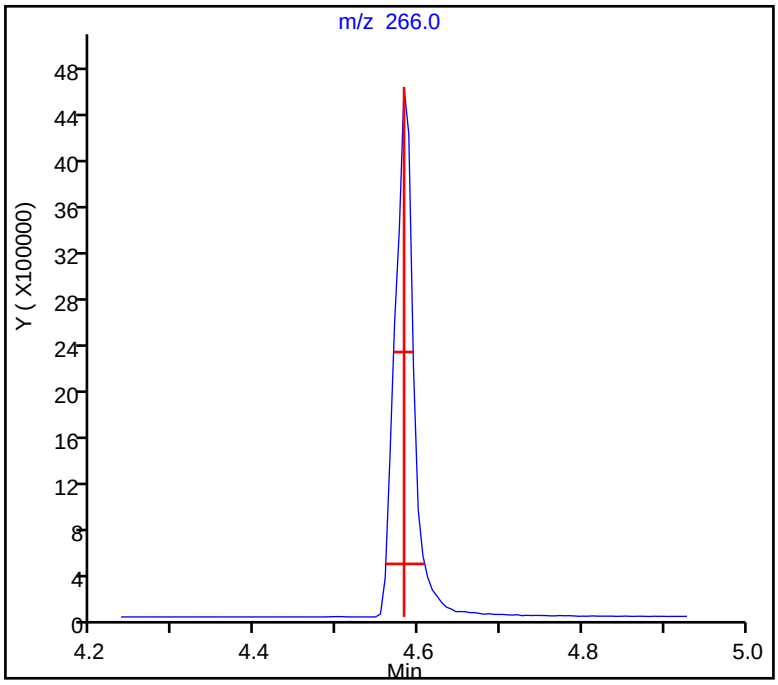
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0000.D
Injection Date: 01-Jul-2021 08:04:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.025 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.14, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Jul-2021 18:54:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033426-001
Operator ID: art12405 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 20:14:05 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 19:10:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.582	4.582	0.000	96	5159193	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.870	5.870	0.000	96	11028467	NR	NR	eM
47 4,4'-DDE	246	6.020	6.020	0.000	74	34060		NR	M
48 4,4'-DDD	235	6.303	6.303	0.000	91	89909		NR	M
49 4,4'-DDT	235	6.557	6.557	0.000	89	9182084	NR	NR	eM

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated
Review Flags
M - Manually Integrated

Reagents:

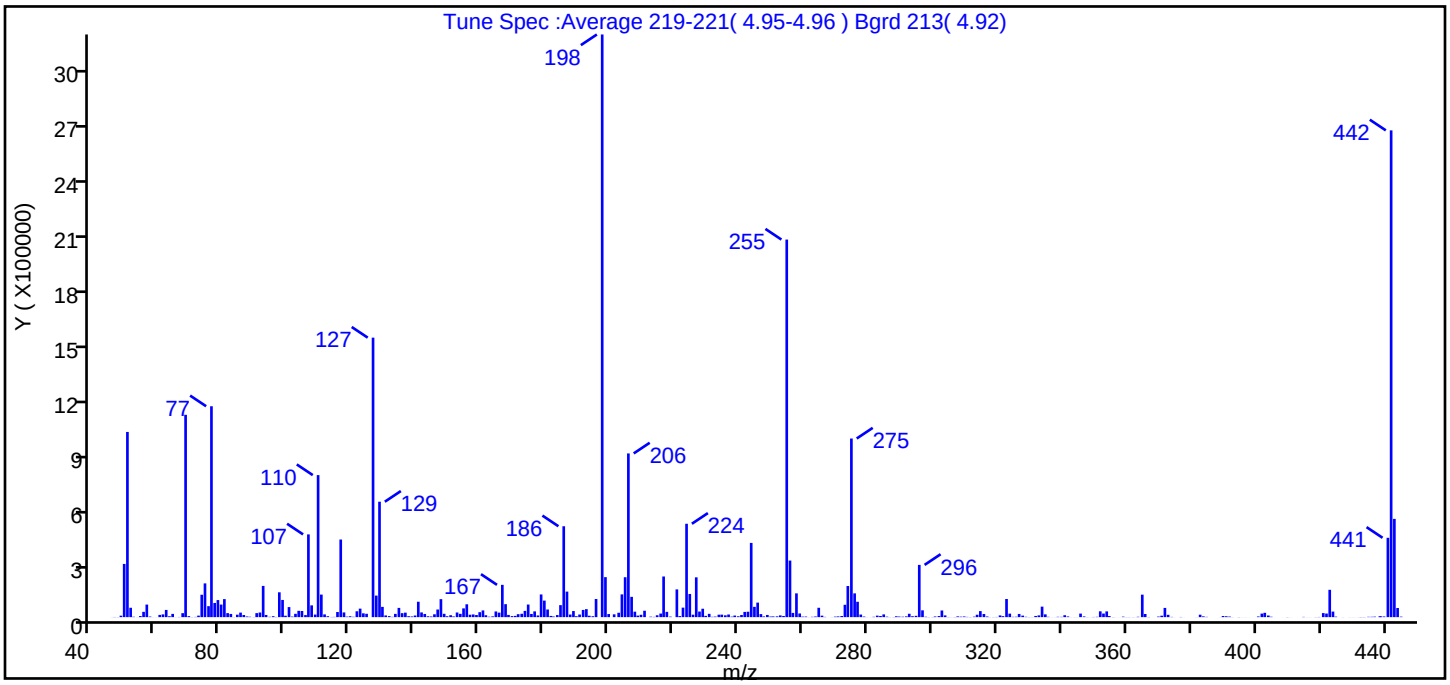
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D
Injection Date: 01-Jul-2021 18:54:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (119.7)
51	10-80% of the base peak	31.8
68	<2% of mass 69	0.7 (2.0)
69	Present	34.7
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	48.0
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	30.7
365	>1% of mass 198	3.9
441	present but <24% of mass 442	13.6 (16.3)
442	base peak, or >50% of 198	83.5
443	15-24% of mass 442	16.9 (20.2)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 01-Jul-2021 18:54:30
Spectrum: Tune Spec :Average 219-221(4.95-4.96) Bgrd 213(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	291	143.00	17096	243.00	29168	339.00	1766
47.00	879	144.00	4646	244.00	399488	340.00	1558
48.00	574	145.00	3418	245.00	55472	341.00	10314
49.00	7881	146.00	15341	246.00	78216	342.00	3586
50.00	286464	147.00	41072	247.00	16408	343.00	293
51.00	996736	148.00	96832	248.00	3793	344.00	332
52.00	50480	149.00	18024	249.00	11727	345.00	315
53.00	2092	150.00	4897	250.00	3102	346.00	19128
54.00	358	151.00	10326	251.00	3794	347.00	3761
55.00	5831	152.00	3743	252.00	4196	348.00	535
56.00	28600	153.00	25024	253.00	9322	349.00	276
57.00	67648	154.00	17800	254.00	6281	350.00	1013
58.00	3031	155.00	47184	255.00	2032128	351.00	1758
59.00	283	156.00	69224	256.00	304576	352.00	31264
60.00	261	157.00	13072	257.00	22744	353.00	19288
61.00	12029	158.00	14529	258.00	128024	354.00	30952
62.00	14879	159.00	11423	259.00	19720	355.00	5808
63.00	38808	160.00	26608	260.00	2771	356.00	712
64.00	4804	161.00	36136	261.00	3079	357.00	152
65.00	17520	162.00	10208	262.00	364	358.00	220
66.00	383	163.00	2260	263.00	1732	359.00	2594
67.00	992	164.00	4084	264.00	3525	360.00	568
68.00	21344	165.00	30568	265.00	50440	361.00	573
69.00	1089024	166.00	24200	266.00	7899	362.00	550
70.00	5374	167.00	173824	267.00	1335	363.00	244
71.00	703	168.00	69832	268.00	68	364.00	1968
72.00	1283	169.00	12009	269.00	396	365.00	121080
73.00	8110	170.00	5595	270.00	2726	366.00	17008
74.00	120592	171.00	6812	271.00	3830	367.00	884
75.00	181696	172.00	15929	272.00	6060	370.00	3090
76.00	59152	173.00	18136	273.00	66536	371.00	7757
77.00	1135104	174.00	33648	274.00	167552	372.00	49688
78.00	76312	175.00	67896	275.00	961408	373.00	12501

Report Date: 01-Jul-2021 20:14:05 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 01-Jul-2021 18:54:30
Spectrum: Tune Spec :Average 219-221(4.95-4.96) Bgrd 213(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	91976	176.00	17224	276.00	127904	374.00	1322
80.00	67712	177.00	30984	277.00	82712	375.00	203
81.00	97008	178.00	8984	278.00	13963	377.00	946
82.00	21672	179.00	122160	279.00	3079	378.00	213
83.00	17192	180.00	89048	280.00	332	381.00	117
84.00	565	181.00	41184	281.00	221	382.00	348
85.00	13266	182.00	6599	282.00	1751	383.00	13177
86.00	24440	183.00	3456	283.00	8132	384.00	4222
87.00	11492	184.00	11126	284.00	6295	385.00	1506
88.00	3510	185.00	64680	285.00	14744	389.00	322
89.00	2098	186.00	489216	286.00	2622	390.00	6062
90.00	698	187.00	137408	287.00	507	391.00	4777
91.00	21616	188.00	14087	288.00	705	392.00	3132
92.00	24872	189.00	32816	289.00	4662	393.00	475
93.00	168128	190.00	4958	290.00	3180	395.00	730
94.00	11706	191.00	14022	291.00	2357	396.00	242
95.00	1716	192.00	38832	292.00	4067	397.00	305
96.00	4996	193.00	43088	293.00	18216	398.00	159
97.00	1031	194.00	7542	294.00	5000	400.00	51
98.00	133696	195.00	4916	295.00	7137	401.00	3598
99.00	92552	196.00	97640	296.00	281216	402.00	19104
100.00	7577	198.00	3136000	297.00	36680	403.00	23360
101.00	54104	199.00	215296	298.00	2206	404.00	8668
102.00	2954	200.00	16680	299.00	715	405.00	2165
103.00	17960	202.00	15113	300.00	628	406.00	97
104.00	33984	203.00	23608	301.00	3525	409.00	159
105.00	33088	204.00	122544	302.00	5802	410.00	665
106.00	11144	205.00	214848	303.00	35824	411.00	175
107.00	445312	206.00	881152	304.00	9303	413.00	56
108.00	63384	207.00	109240	305.00	901	415.00	1363
109.00	13849	208.00	29440	306.00	327	416.00	278
110.00	764480	209.00	8226	307.00	761	417.00	257
111.00	121392	210.00	12658	308.00	3961	418.00	366
112.00	14827	211.00	34432	309.00	2507	419.00	338

Report Date: 01-Jul-2021 20:14:05 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 01-Jul-2021 18:54:30
Spectrum: Tune Spec :Average 219-221(4.95-4.96) Bgrd 213(4.92)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	4956	213.00	2496	310.00	3506	420.00	1011
114.00	941	214.00	1376	311.00	1349	421.00	21856
115.00	1307	215.00	10077	312.00	781	422.00	19312
116.00	27608	216.00	19320	313.00	2582	423.00	147136
117.00	417792	217.00	218880	314.00	12875	424.00	29936
118.00	25432	218.00	28440	315.00	32456	425.00	2725
119.00	2746	219.00	2814	316.00	16968	427.00	390
120.00	4775	221.00	149312	317.00	3518	429.00	343
121.00	1881	222.00	5581	318.00	489	430.00	256
122.00	31672	223.00	51192	319.00	665	431.00	230
123.00	45808	224.00	502592	320.00	1012	432.00	493
124.00	20568	225.00	124752	321.00	9206	433.00	804
125.00	17992	226.00	13087	322.00	5246	434.00	783
127.00	1504256	227.00	214272	323.00	97640	435.00	1791
128.00	116032	228.00	30136	324.00	18888	436.00	1899
129.00	621248	229.00	45264	325.00	1727	437.00	2655
130.00	55216	230.00	6858	326.00	2109	438.00	4466
131.00	9110	231.00	17728	327.00	17176	439.00	4095
132.00	5614	232.00	1847	328.00	8196	440.00	3594
133.00	1577	233.00	2936	329.00	1926	441.00	427008
134.00	17608	234.00	13118	330.00	706	442.00	2619904
135.00	49768	235.00	13452	331.00	539	443.00	528832
136.00	21472	236.00	9839	332.00	6354	444.00	49176
137.00	24240	237.00	14222	333.00	9337	445.00	2692
138.00	5083	238.00	2627	334.00	56528	446.00	65
139.00	3680	239.00	8515	335.00	14997	447.00	25
140.00	8680	240.00	4532	336.00	1776		
141.00	82968	241.00	11458	337.00	267		
142.00	25328	242.00	28184	338.00	305		

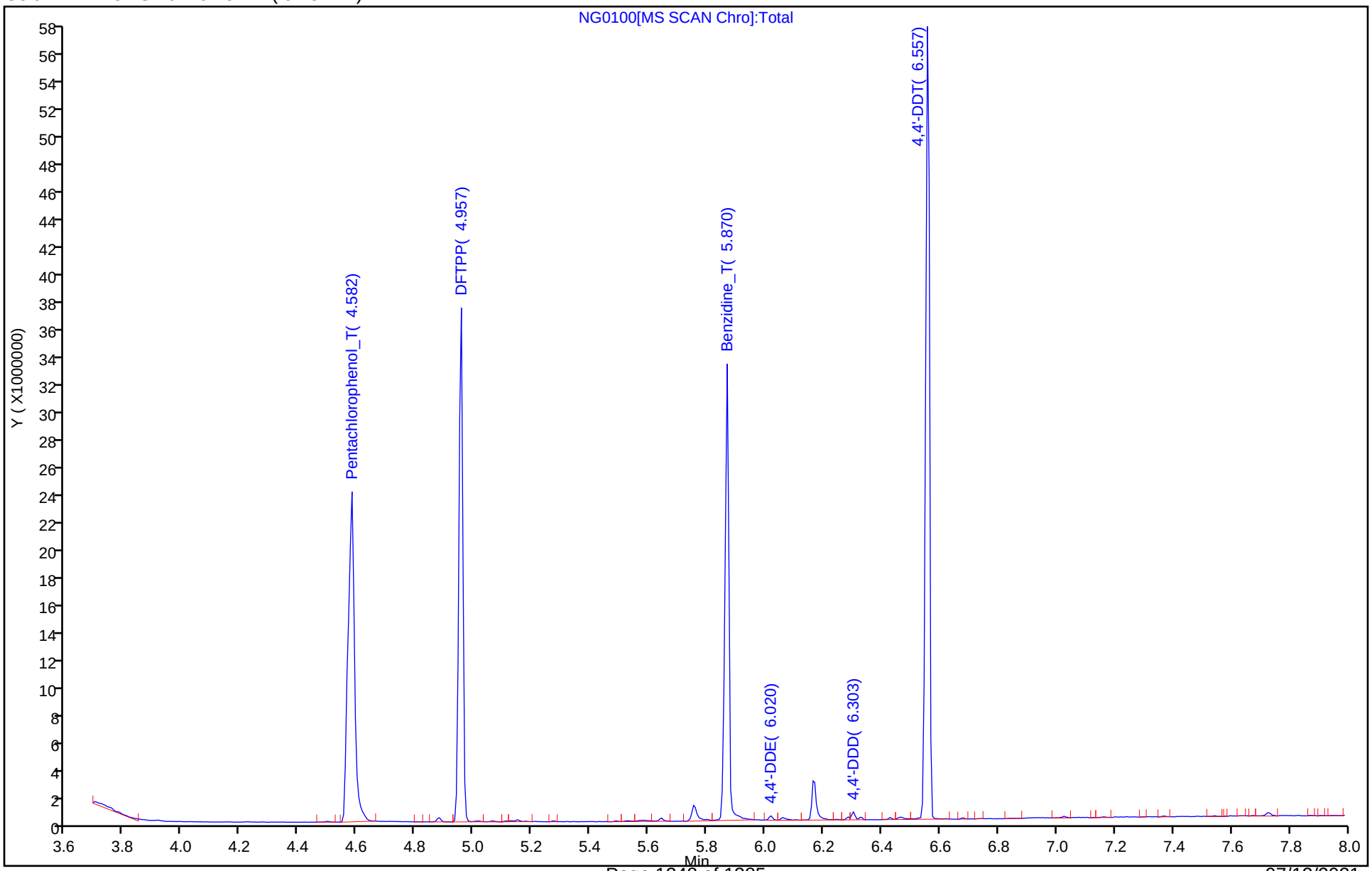
Report Date: 01-Jul-2021 20:14:05 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D

Injection Date:	01-Jul-2021 18:54:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D
Injection Date: 01-Jul-2021 18:54:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

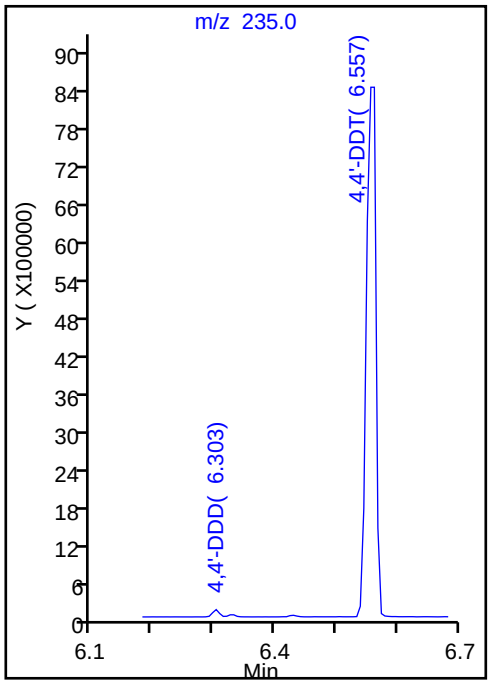
49 4,4'-DDT, Detector: MS SCAN

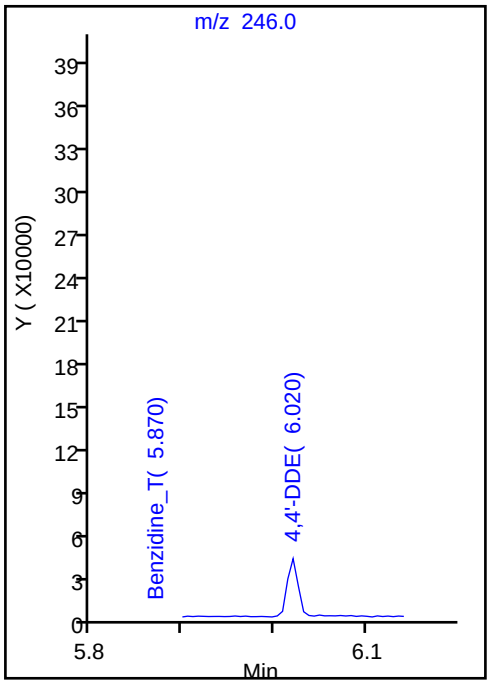
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 9182084
47 4,4'-DDE, Area = 34060
48 4,4'-DDD, Area = 89909

%Breakdown: 1.33%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

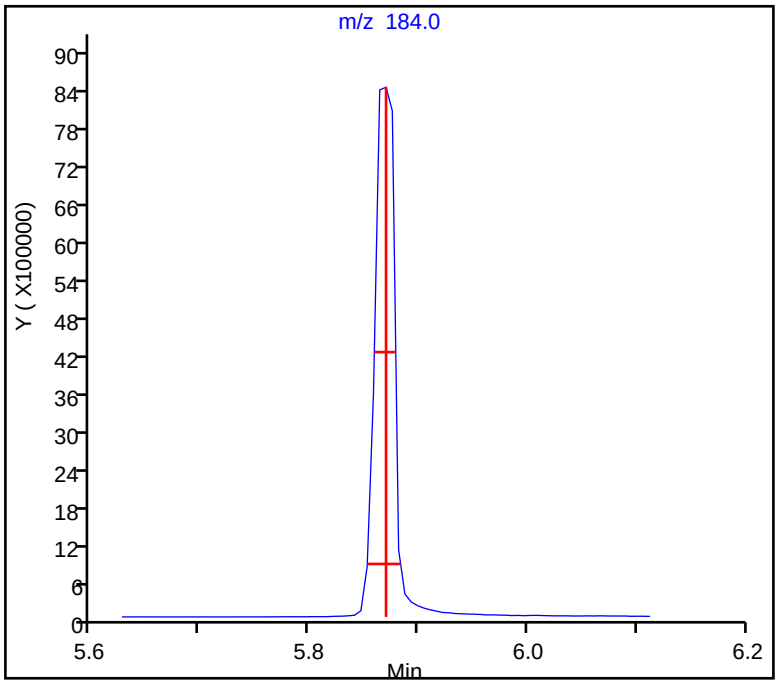
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D
Injection Date: 01-Jul-2021 18:54:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.76, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

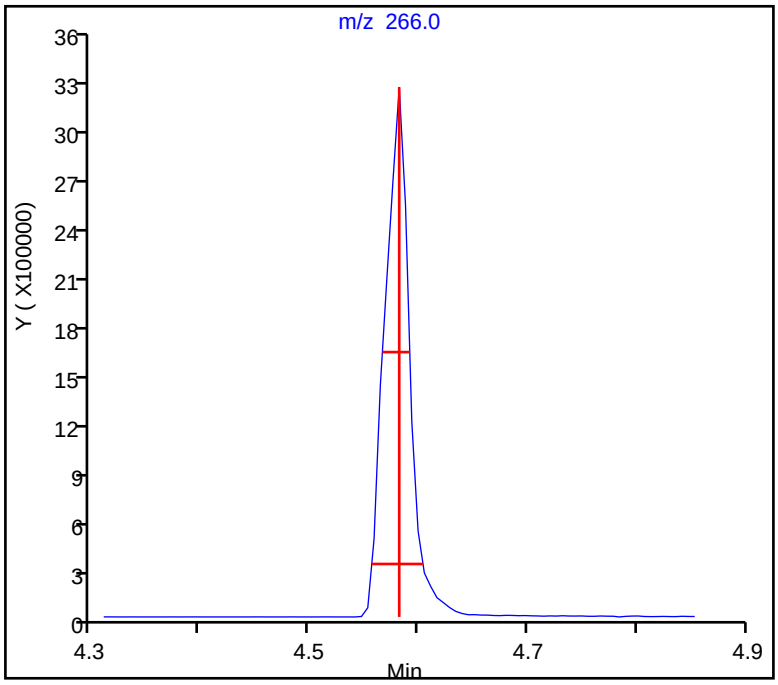
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33426.b\NG0100.D
Injection Date: 01-Jul-2021 18:54:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 0.88, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-Jul-2021 08:25:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033536-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jul-2021 09:27:51 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.565	4.565	0.000	97	7301146	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.853	5.853	0.000	98	12008276	NR	NR	e
47 4,4'-DDE	246	5.997	5.997	0.000	76	63668		NR	
48 4,4'-DDD	235	6.280	6.280	0.000	91	725193		NR	
49 4,4'-DDT	235	6.540	6.540	0.000	81	9667363	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

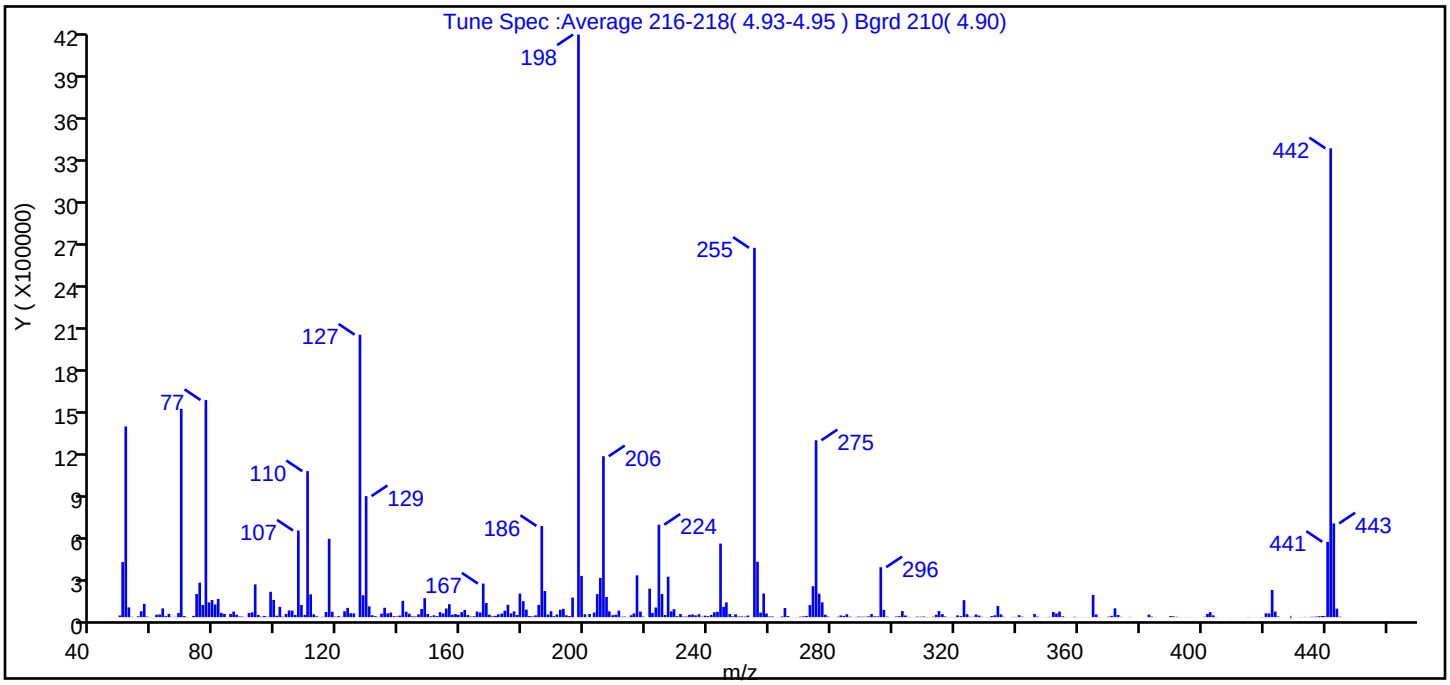
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D
Injection Date: 05-Jul-2021 08:25:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (124.3)
51	10-80% of the base peak	32.7
68	<2% of mass 69	0.7 (2.0)
69	Present	35.8
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	48.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	30.4
365	>1% of mass 198	3.8
441	present but <24% of mass 442	12.9 (16.1)
442	base peak, or >50% of 198	80.5
443	15-24% of mass 442	16.1 (20.0)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Jul-2021 08:25:30
Spectrum: Tune Spec :Average 216-218(4.93-4.95) Bgrd 210(4.90)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 383

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	136	144.00	5696	243.00	38008	340.00	2033
47.00	487	145.00	4838	244.00	521664	341.00	13953
48.00	286	146.00	19688	245.00	72752	342.00	3402
49.00	11933	147.00	57760	246.00	104456	343.00	674
50.00	390720	148.00	134464	247.00	22584	344.00	244
51.00	1351680	149.00	22496	248.00	5798	345.00	459
52.00	69232	150.00	6114	249.00	20200	346.00	22192
53.00	2677	151.00	12800	250.00	4453	347.00	4088
54.00	160	152.00	7592	251.00	5375	348.00	678
55.00	6481	153.00	35264	252.00	4071	350.00	130
56.00	41736	154.00	26400	253.00	11343	350.00	1430
57.00	94240	155.00	61368	255.00	2617856	351.00	2079
58.00	4006	156.00	91792	256.00	392704	352.00	36912
59.00	1503	157.00	17576	257.00	32104	353.00	25896
60.00	33	158.00	22248	258.00	167680	354.00	39376
61.00	17376	159.00	16349	259.00	25640	355.00	6245
62.00	19168	160.00	35336	260.00	4431	356.00	574
63.00	62144	161.00	51328	261.00	4545	357.00	474
64.00	7338	162.00	14928	262.00	591	358.00	622
65.00	23128	163.00	4103	263.00	892	359.00	3066
66.00	1546	164.00	6553	264.00	5222	360.00	763
67.00	2039	165.00	39776	265.00	64960	361.00	623
68.00	28896	166.00	33488	266.00	7633	362.00	547
69.00	1477120	167.00	237824	267.00	754	363.00	930
70.00	7708	168.00	100104	268.00	100	364.00	453
71.00	1363	169.00	17312	269.00	984	365.00	158080
72.00	348	170.00	6028	270.00	3590	366.00	19168
73.00	9019	171.00	9425	271.00	5720	367.00	1390
74.00	163968	172.00	19832	272.00	8676	368.00	187
75.00	244352	173.00	25640	273.00	85368	370.00	3500
76.00	85968	174.00	45424	274.00	219008	371.00	9204
77.00	1539072	175.00	87408	275.00	1253888	372.00	62728
78.00	104104	176.00	26120	276.00	166336	373.00	15141

Report Date: 05-Jul-2021 09:27:52 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Jul-2021 08:25:30
Spectrum: Tune Spec :Average 216-218(4.93-4.95) Bgrd 210(4.90)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 383

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	121544	177.00	40640	277.00	105104	374.00	2104
80.00	89472	178.00	15001	278.00	17256	377.00	1768
81.00	128704	179.00	167040	279.00	4325	378.00	228
82.00	30472	180.00	113000	280.00	698	382.00	524
83.00	23496	181.00	53232	281.00	54	383.00	17960
85.00	23016	182.00	8527	282.00	2700	384.00	4592
86.00	39496	183.00	5186	283.00	12146	385.00	1676
87.00	17096	184.00	12711	284.00	8864	388.00	264
88.00	4807	185.00	86832	285.00	20424	389.00	262
89.00	3496	186.00	646464	286.00	3539	390.00	7570
90.00	893	187.00	185344	287.00	711	391.00	5691
91.00	29416	188.00	18232	288.00	1418	392.00	2865
92.00	33952	189.00	41832	289.00	4430	393.00	969
93.00	232320	190.00	6604	290.00	3503	395.00	474
94.00	15012	191.00	18408	291.00	2768	396.00	638
95.00	3191	192.00	52648	292.00	5658	397.00	409
96.00	8509	193.00	58928	293.00	21760	398.00	232
97.00	2932	194.00	13056	294.00	5986	401.00	2623
98.00	179840	195.00	7872	295.00	5448	402.00	22800
99.00	121752	196.00	138560	296.00	353728	403.00	35712
100.00	9814	198.00	4130304	297.00	51624	404.00	12634
101.00	73072	199.00	292160	298.00	4064	405.00	1275
102.00	3701	200.00	20040	299.00	1270	406.00	54
103.00	22936	202.00	22320	300.00	434	408.00	165
104.00	47344	203.00	32776	301.00	4861	408.00	52
105.00	46232	204.00	163072	302.00	7164	409.00	104
106.00	15035	205.00	278208	303.00	43000	410.00	785
107.00	613952	206.00	1140736	304.00	11971	411.00	54
108.00	86016	207.00	143104	305.00	2257	413.00	59
109.00	16086	208.00	40680	306.00	499	415.00	1136
110.00	1034944	209.00	13832	307.00	927	416.00	650
111.00	161600	210.00	17472	308.00	4084	417.00	357
112.00	19536	211.00	46024	309.00	3158	418.00	561
113.00	6066	212.00	2817	310.00	4532	419.00	878

Report Date: 05-Jul-2021 09:27:52 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 05-Jul-2021 08:25:30
Spectrum: Tune Spec :Average 216-218(4.93-4.95) Bgrd 210(4.90)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 383

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	1545	213.00	3672	311.00	1204	420.00	1029
115.00	2499	214.00	1522	312.00	827	421.00	27600
116.00	36440	215.00	13199	313.00	3447	422.00	26600
117.00	555328	216.00	26024	314.00	16744	423.00	192320
118.00	38592	217.00	296128	315.00	43232	424.00	39416
119.00	3670	218.00	39336	316.00	21160	425.00	4355
120.00	6920	219.00	4096	317.00	4844	426.00	133
121.00	2474	221.00	201728	318.00	722	427.00	142
122.00	41928	222.00	29920	319.00	828	428.00	542
123.00	65784	223.00	68128	320.00	1553	429.00	2
124.00	27640	224.00	655488	321.00	12610	430.00	68
125.00	26480	225.00	164288	322.00	6885	432.00	649
127.00	2002432	226.00	15085	323.00	120536	432.00	1038
128.00	155520	227.00	286592	324.00	20640	433.00	630
129.00	857984	228.00	40968	325.00	2768	434.00	1608
130.00	76368	229.00	56248	326.00	2616	435.00	1536
131.00	13339	230.00	7036	327.00	19480	436.00	2602
132.00	6844	231.00	21704	328.00	11118	437.00	4026
133.00	2458	232.00	4158	329.00	2311	438.00	6575
134.00	24736	233.00	4622	330.00	612	439.00	8696
135.00	66400	234.00	16392	331.00	830	440.00	7058
136.00	26888	235.00	19272	332.00	7752	441.00	533888
137.00	32728	236.00	12527	333.00	12815	442.00	3323392
138.00	6956	237.00	20784	334.00	79280	443.00	664320
139.00	4923	238.00	3315	335.00	19544	444.00	59920
140.00	11270	239.00	10716	336.00	2707	445.00	3252
141.00	115440	240.00	7101	337.00	481	446.00	135
142.00	37992	241.00	15622	338.00	388	462.00	57
143.00	24552	242.00	34288	339.00	1932		

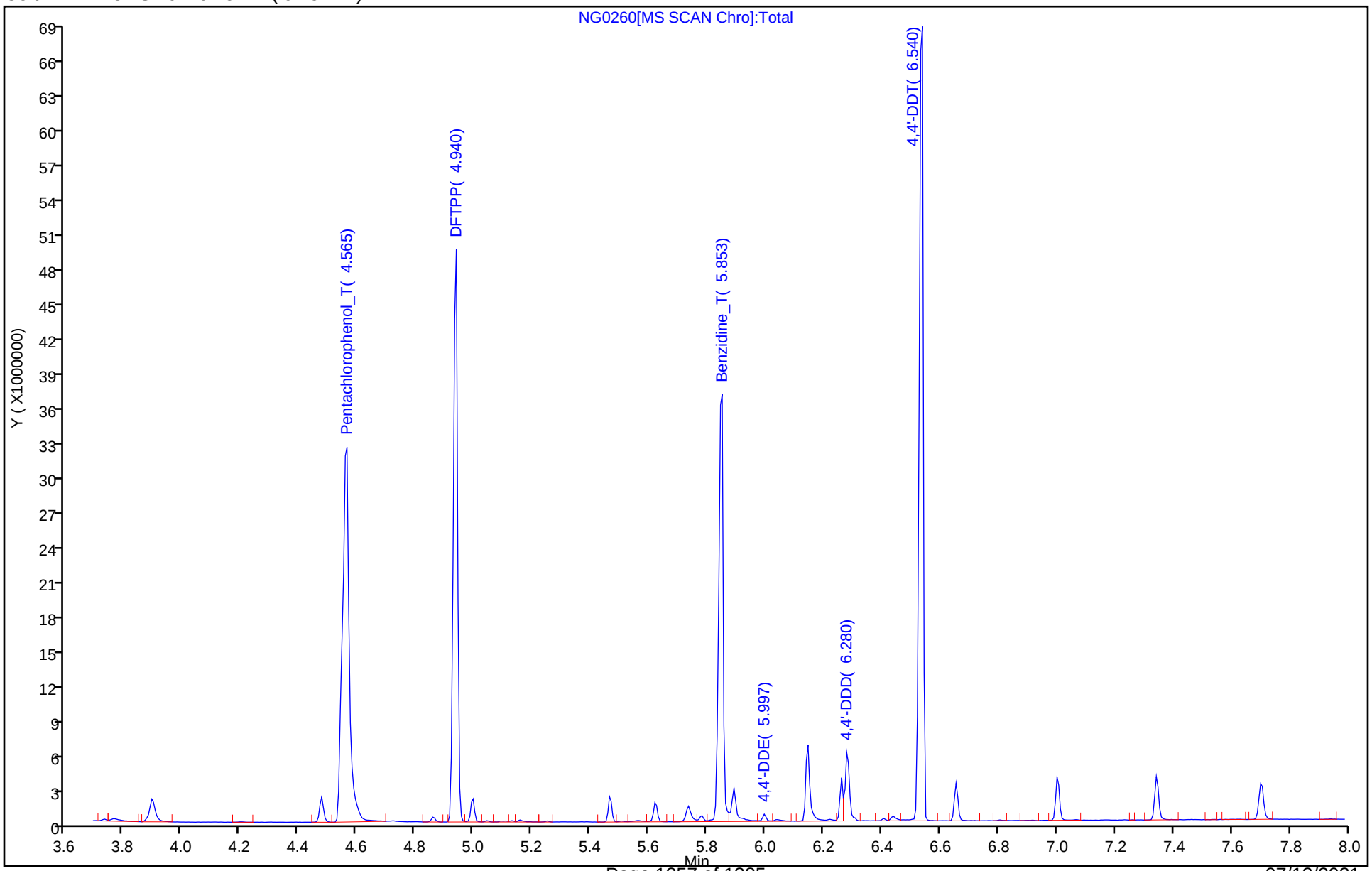
Report Date: 05-Jul-2021 09:27:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D

Injection Date:	05-Jul-2021 08:25:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D
Injection Date: 05-Jul-2021 08:25:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

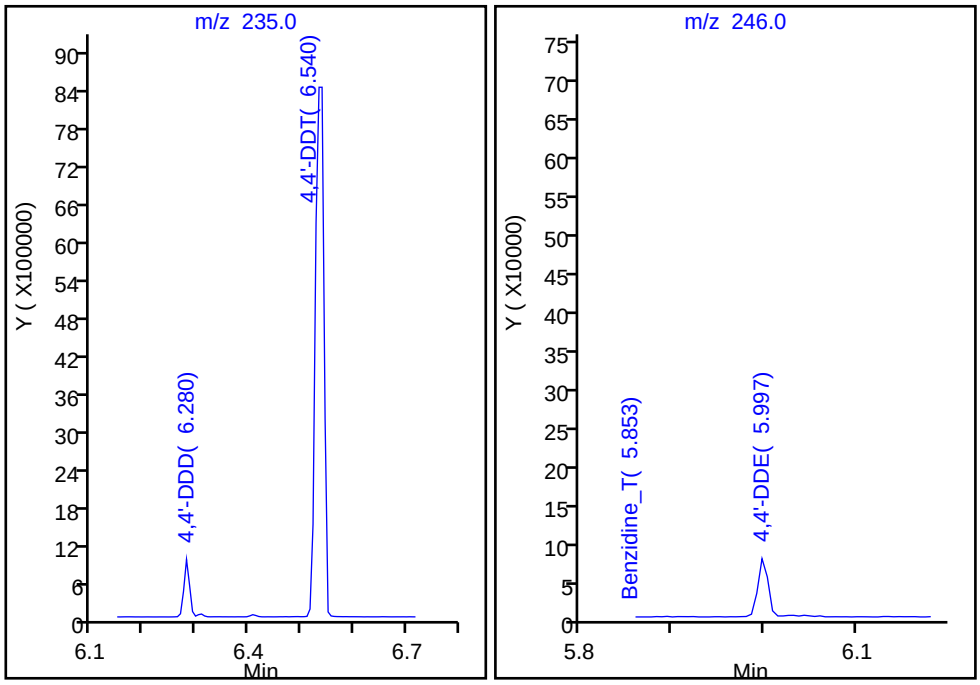
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 9667363
47 4,4'-DDE, Area = 63668
48 4,4'-DDD, Area = 725193

%Breakdown: 7.54%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

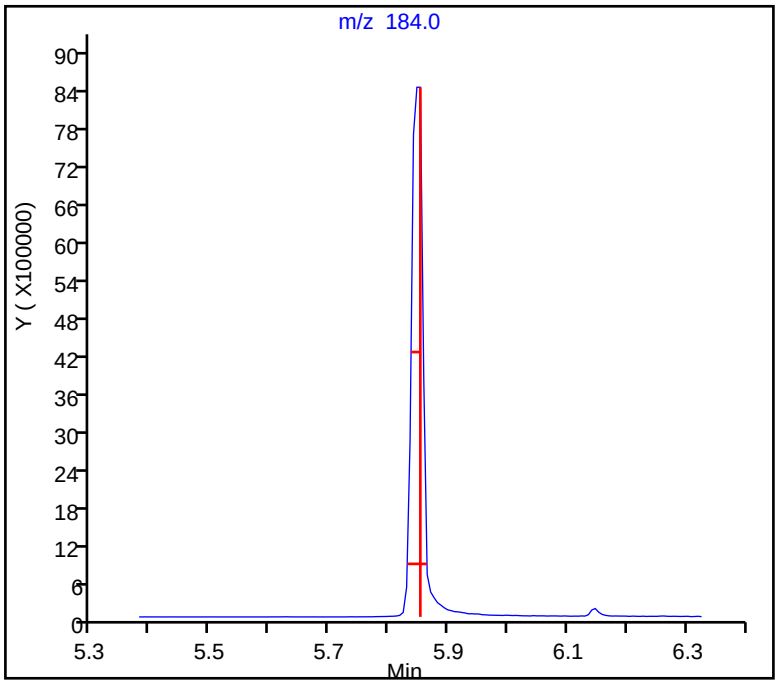
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D
Injection Date: 05-Jul-2021 08:25:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 0.50, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

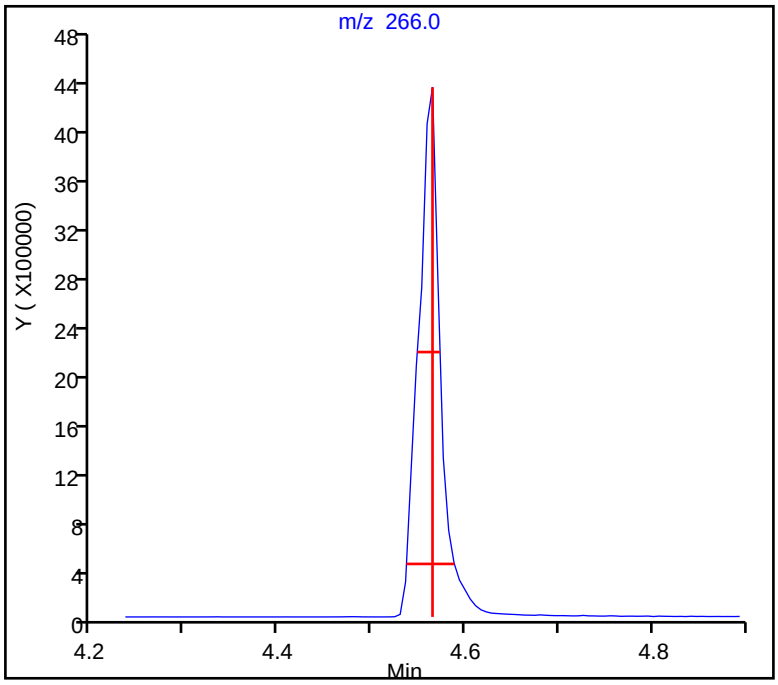
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0260.D
Injection Date: 05-Jul-2021 08:25:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.028 (min.)

Tailing Factor = 0.82, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Jul-2021 05:55:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0033556-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 06:47:11 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.571	4.571	0.000	96	6518209	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.864	5.864	0.000	98	13040933	NR	NR	e
47 4,4'-DDE	246	6.003	6.003	0.000	75	79172		NR	
48 4,4'-DDD	235	6.292	6.292	0.000	92	1081152		NR	
49 4,4'-DDT	235	6.552	6.552	0.000	98	9670368	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

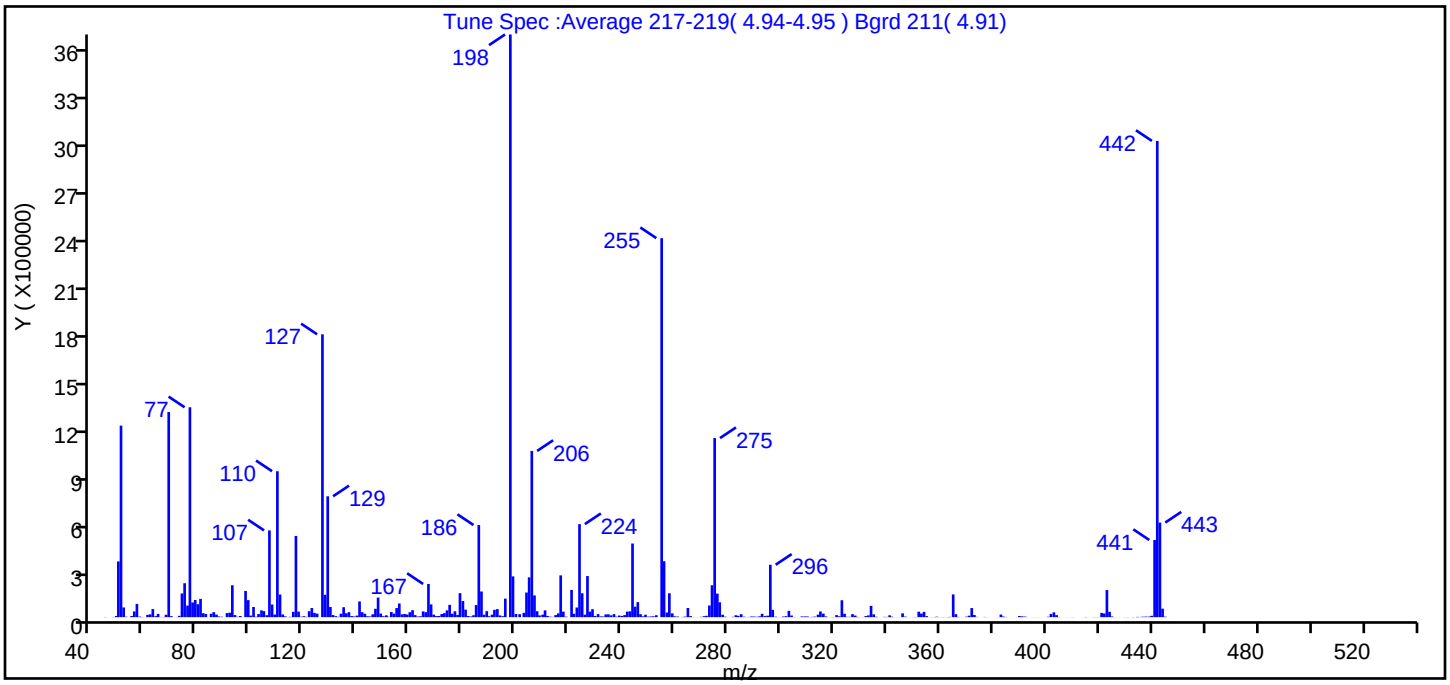
MSS_RVDFTPP_00007 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D
Injection Date: 06-Jul-2021 05:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (122.4)
51	10-80% of the base peak	32.9
68	<2% of mass 69	0.4 (1.2)
69	Present	35.2
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	48.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	30.7
365	>1% of mass 198	3.9
441	present but <24% of mass 442	13.2 (16.2)
442	base peak, or >50% of 198	81.7
443	15-24% of mass 442	16.2 (19.9)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 06-Jul-2021 05:55:30
Spectrum: Tune Spec :Average 217-219(4.94-4.95) Bgrd 211(4.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 382

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	1078	147.00	52912	246.00	94864	345.00	307
46.00	195	148.00	123840	247.00	18880	346.00	24000
48.00	1130	149.00	22536	248.00	5068	347.00	3537
49.00	7451	150.00	5913	249.00	15330	348.00	632
50.00	352704	151.00	11412	250.00	3424	349.00	275
51.00	1212416	152.00	2836	251.00	4254	350.00	864
52.00	61416	153.00	32376	252.00	5354	351.00	1072
53.00	2659	154.00	22272	253.00	12076	352.00	34416
55.00	7242	155.00	57432	255.00	2399232	353.00	22768
56.00	36224	156.00	86400	256.00	354048	354.00	33256
57.00	83416	157.00	17696	257.00	29088	355.00	6399
58.00	3509	158.00	20192	258.00	151360	356.00	475
59.00	1226	159.00	16616	259.00	23816	357.00	464
60.00	473	160.00	31440	260.00	5162	358.00	858
61.00	14469	161.00	44080	261.00	4084	359.00	2904
62.00	17856	162.00	12840	262.00	458	360.00	623
63.00	51120	163.00	3967	263.00	1424	361.00	886
64.00	6588	164.00	5748	264.00	3522	362.00	552
65.00	20520	165.00	36384	265.00	57736	363.00	1016
66.00	970	166.00	31416	266.00	6758	364.00	1686
67.00	1404	167.00	210048	267.00	669	365.00	143936
68.00	15170	168.00	80808	268.00	242	366.00	18696
69.00	1298432	169.00	16125	269.00	388	367.00	1614
70.00	6269	170.00	6902	270.00	2065	368.00	288
72.00	1062	171.00	7245	271.00	5914	369.00	316
73.00	8104	172.00	19712	272.00	8507	370.00	2881
74.00	149888	173.00	25160	273.00	73728	371.00	9162
75.00	214784	174.00	43024	274.00	201792	372.00	57568
76.00	73296	175.00	77984	275.00	1133568	373.00	13432
77.00	1328640	176.00	21464	276.00	148992	374.00	1659
78.00	93048	177.00	37144	277.00	93984	377.00	1283
79.00	108304	178.00	13798	278.00	15261	378.00	467
80.00	81688	179.00	151808	279.00	2948	379.00	90

Report Date: 06-Jul-2021 06:47:11 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 06-Jul-2021 05:55:30
Spectrum: Tune Spec :Average 217-219(4.94-4.95) Bgrd 211(4.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 382

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	115504	180.00	102224	280.00	453	382.00	602
82.00	24952	181.00	47568	282.00	2171	383.00	16408
83.00	20360	182.00	6983	283.00	12227	384.00	4026
85.00	21424	183.00	4417	284.00	7897	385.00	1125
86.00	31792	184.00	12065	285.00	18648	386.00	136
87.00	15967	185.00	76520	286.00	2959	389.00	385
88.00	4412	186.00	583168	287.00	593	390.00	7308
89.00	2737	187.00	162432	288.00	1262	391.00	5094
90.00	137	188.00	15323	289.00	4247	392.00	3626
91.00	25816	189.00	37904	290.00	3587	393.00	529
92.00	27912	190.00	5698	291.00	2533	395.00	477
93.00	201792	191.00	15764	292.00	5152	396.00	509
94.00	13089	192.00	46520	293.00	21232	397.00	659
95.00	2241	193.00	50760	294.00	6890	398.00	266
96.00	7401	194.00	10753	295.00	9286	400.00	263
98.00	165952	195.00	6043	296.00	331648	401.00	2653
99.00	107752	196.00	117168	297.00	46176	402.00	20360
100.00	9890	198.00	3688448	298.00	2937	403.00	30176
101.00	64544	199.00	257792	299.00	823	404.00	12691
102.00	3028	200.00	19952	300.00	524	405.00	1210
103.00	19704	201.00	18736	301.00	3784	406.00	51
104.00	42824	203.00	27192	302.00	6015	408.00	524
105.00	38320	204.00	155776	303.00	39920	409.00	269
106.00	12331	205.00	252032	304.00	10331	410.00	675
107.00	548992	206.00	1052160	305.00	1134	411.00	148
108.00	79920	207.00	137536	306.00	333	412.00	76
109.00	16239	208.00	37544	307.00	614	414.00	247
110.00	923712	209.00	10815	308.00	4446	415.00	1107
111.00	142976	210.00	15751	309.00	4632	416.00	347
112.00	17000	211.00	42856	310.00	4304	418.00	187
113.00	4960	212.00	7452	311.00	1106	418.00	747
114.00	1201	213.00	2940	312.00	1800	419.00	496
115.00	1985	214.00	1552	313.00	3307	420.00	850
116.00	33872	215.00	13030	314.00	15505	421.00	27008

Report Date: 06-Jul-2021 06:47:11 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 06-Jul-2021 05:55:30
Spectrum: Tune Spec :Average 217-219(4.94-4.95) Bgrd 211(4.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 382

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	513984	216.00	23648	315.00	36296	422.00	23048
118.00	34984	217.00	264320	316.00	22344	423.00	171648
119.00	2849	218.00	34776	317.00	4496	424.00	33552
120.00	5800	219.00	3075	318.00	340	425.00	4353
121.00	2032	221.00	172288	319.00	530	426.00	554
122.00	37680	222.00	21360	320.00	1154	427.00	335
123.00	57656	223.00	61064	321.00	12945	428.00	364
124.00	26888	224.00	588928	322.00	5453	430.00	580
125.00	22048	225.00	151168	323.00	107024	430.00	352
127.00	1790464	226.00	15552	324.00	21448	431.00	633
128.00	141440	227.00	260224	325.00	2294	432.00	315
129.00	765120	228.00	34904	326.00	2031	433.00	856
130.00	64384	229.00	50328	327.00	19104	434.00	1527
131.00	13276	230.00	7287	328.00	9894	435.00	1078
132.00	6122	231.00	19136	329.00	1683	436.00	1860
133.00	2163	232.00	4598	330.00	494	437.00	2546
134.00	21840	233.00	4211	331.00	639	438.00	3661
135.00	62880	234.00	17248	332.00	6762	439.00	3906
136.00	24400	235.00	17888	333.00	10917	440.00	8568
137.00	31392	236.00	11254	334.00	71592	441.00	488320
138.00	6876	237.00	19136	335.00	17672	442.00	3014656
139.00	4474	238.00	3373	336.00	2578	443.00	598656
140.00	9770	239.00	10108	338.00	206	444.00	53896
141.00	99440	240.00	7612	339.00	1593	445.00	3368
142.00	31368	241.00	12895	340.00	1473	447.00	98
143.00	21672	242.00	34888	341.00	11717	461.00	71
144.00	5782	243.00	36664	342.00	3121	535.00	70
145.00	4458	244.00	466176	343.00	363		
146.00	18104	245.00	66224	344.00	526		

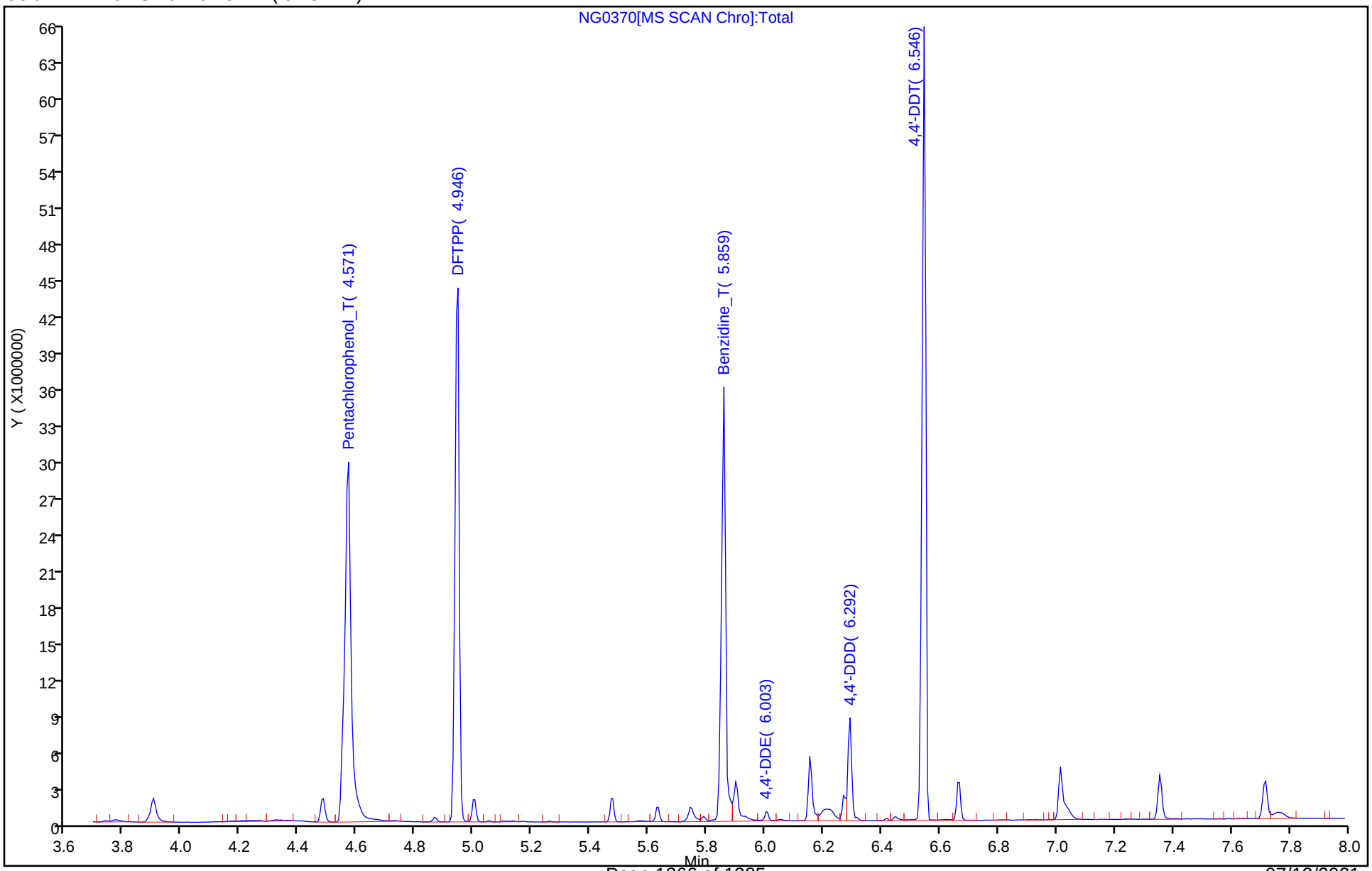
Report Date: 06-Jul-2021 06:47:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D

Injection Date:	06-Jul-2021 05:55:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D
Injection Date: 06-Jul-2021 05:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

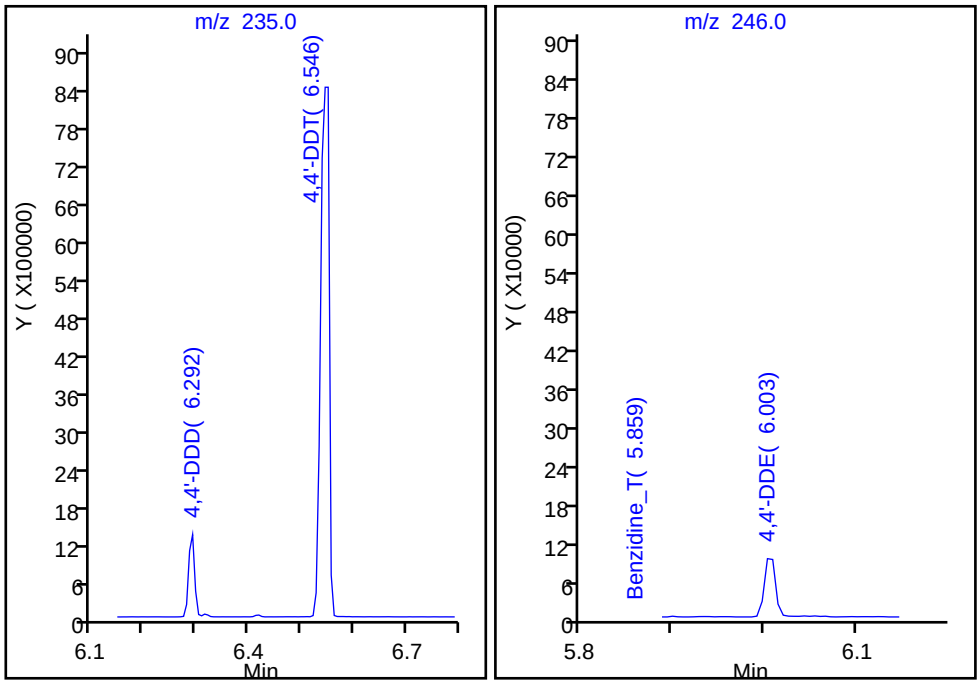
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 9670368
47 4,4'-DDE, Area = 79172
48 4,4'-DDD, Area = 1081152

%Breakdown: 10.71%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

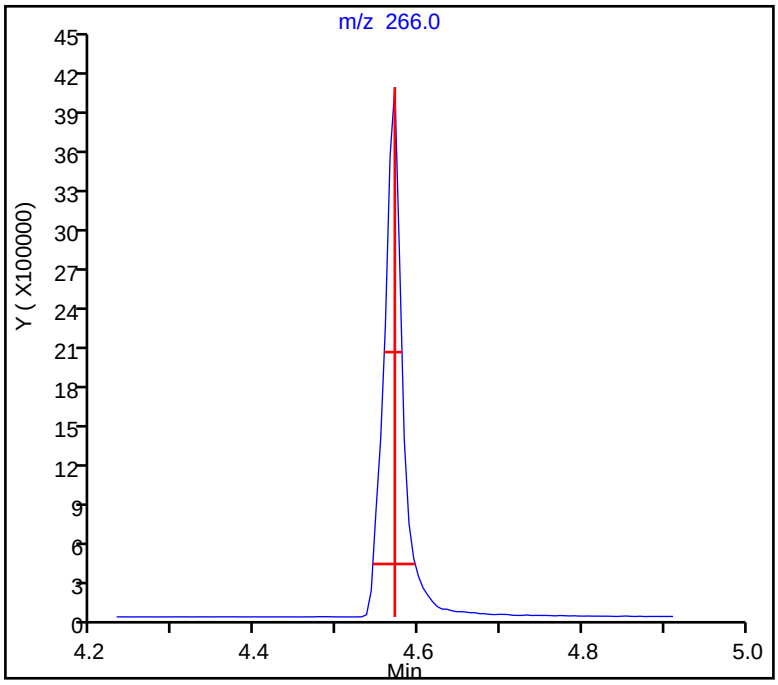
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D
Injection Date: 06-Jul-2021 05:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.025 (min.)
Front Width = 0.027 (min.)

Tailing Factor = 0.93, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

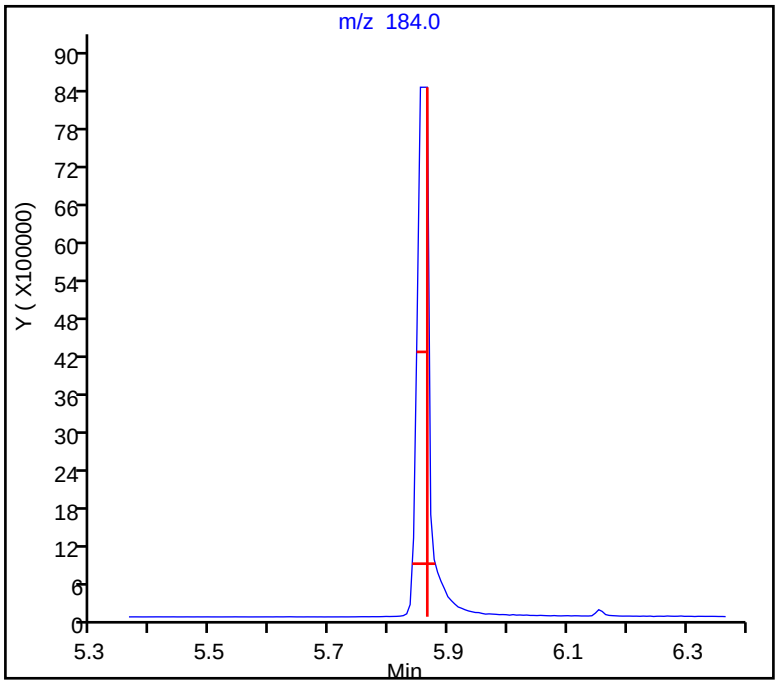
Data File: \\chromfs\Lancaster\ChromData\HP23263\20210706-33556.b\NG0370.D
Injection Date: 06-Jul-2021 05:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 0.56, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-143125/1-A

Matrix: Water Lab File ID: MF2103.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/29/2021 09:35

Sample wt/vol: 250(mL) Date Analyzed: 06/29/2021 20:50

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143507 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	0.0116	J	0.050	0.010
50-32-8	Benzo[a]pyrene	0.0117	J	0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.0133	J	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.0107	J	0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.0140	J	0.050	0.010
218-01-9	Chrysene	0.0177	J	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	0.0101	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	1	S1-	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	0.6	S1-	36-111
93951-69-0	Fluoranthene-d10 (Surr)	1	S1-	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D
Lims ID: MB 410-143125/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Jun-2021 20:50:06 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-143125/1-A
Misc. Info.: 410-0033197-003
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 16:41:28 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 16:24:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.726	6.726	0.000	89	6704	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.622	8.622	0.000	97	22683	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.871	9.846	0.025	96	93	0.2500	0.001577	Ma
* 13 Acenaphthene-d10	164	11.411	11.399	0.012	97	15761	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.313	13.305	0.008	95	31096	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.993	14.955	0.032	86	353	0.2500	0.002426	M
25 Fluoranthene	202	15.024	15.024	0.037	98	392		0.002258	7M
26 Pyrene	202	15.356	15.356	0.025	95	439		0.002522	M
28 Benzo[a]anthracene	228	17.355	17.355	0.023	82	527		0.002891	M
* 29 Chrysene-d12	240	17.355	17.347	0.008	56	35151	0.2500	0.2500	
30 Chrysene	228	17.409	17.402	0.008	99	851		0.004428	M
33 Benzo[b]fluoranthene	252	19.219	19.195	0.023	100	629		0.003336	M
34 Benzo[k]fluoranthene	252	19.265	19.243	0.023	99	714		0.003492	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.702	19.687	0.016	100	494	0.2500	0.003190	
37 Benzo[a]pyrene	252	19.748	19.748	0.023	99	535		0.002937	M
* 38 Perylene-d12	264	19.824	19.817	0.007	97	40499	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.575	21.478	0.099	97	589		0.003443	M
41 Dibenz(a,h)anthracene	278	21.632	21.513	0.120	93	500		0.002601	7M
42 Benzo[g,h,i]perylene	276	21.985	21.908	0.078	94	544		0.002680	

QC Flag Legend

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

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

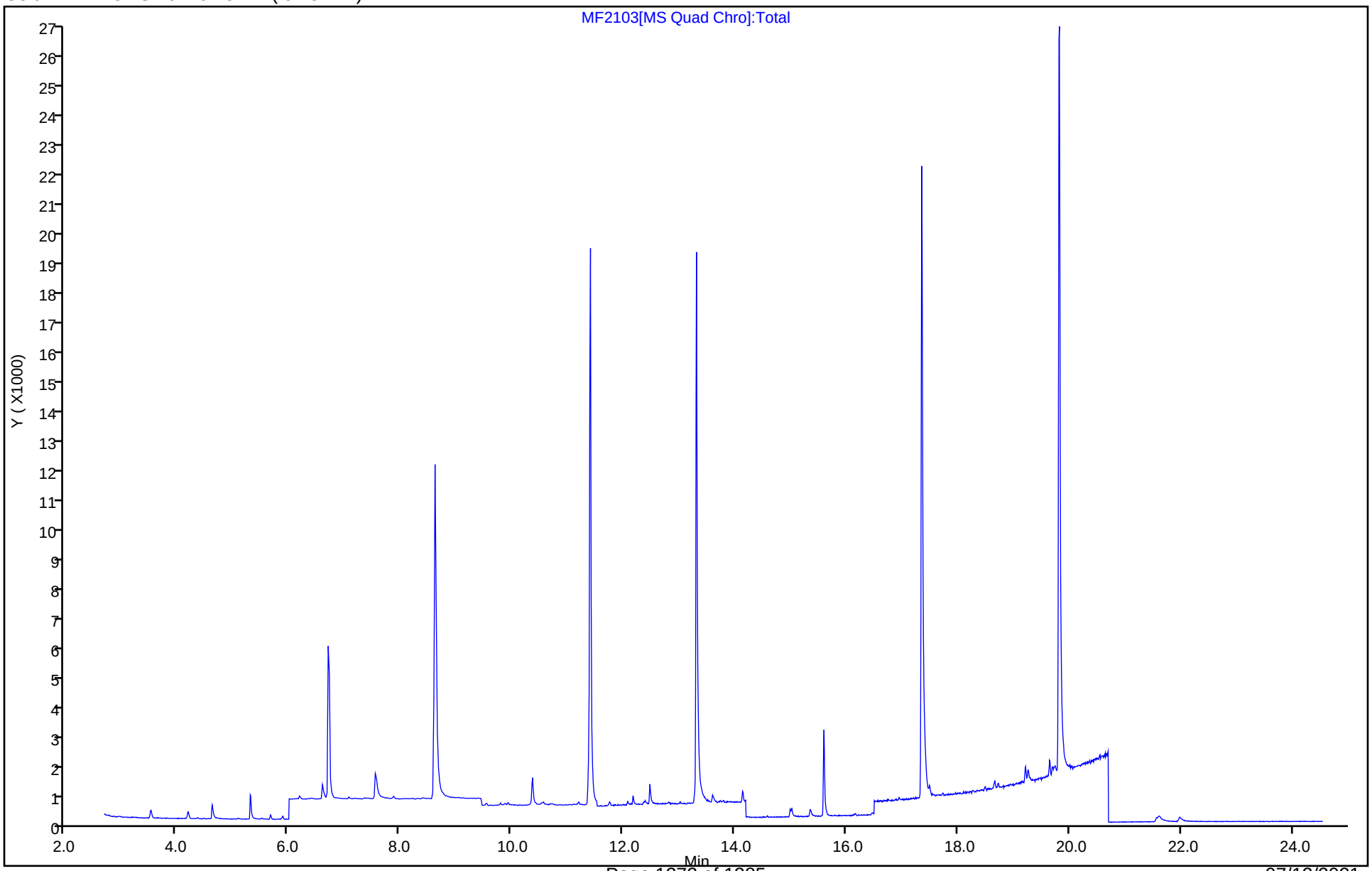
Report Date: 01-Jul-2021 16:41:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D

Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	MB 410-143125/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

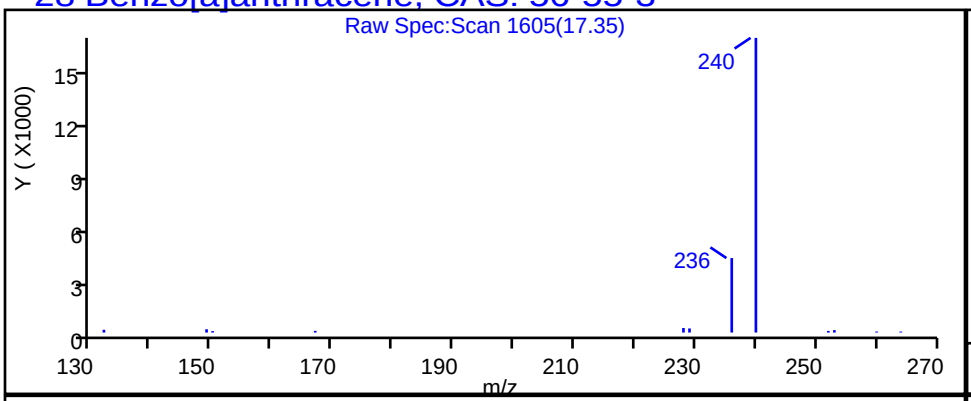
Column: DB-5MS 20m 0.25mm (0.25 mm)

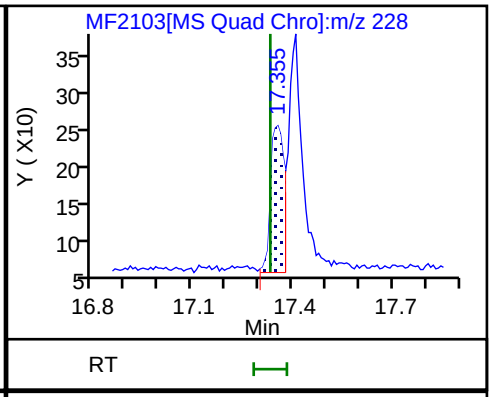


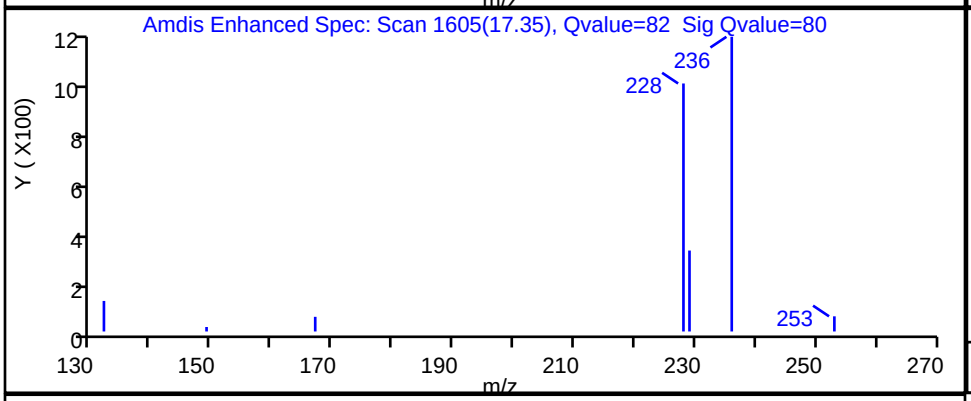
Eurofins Lancaster Laboratories Env, LLC

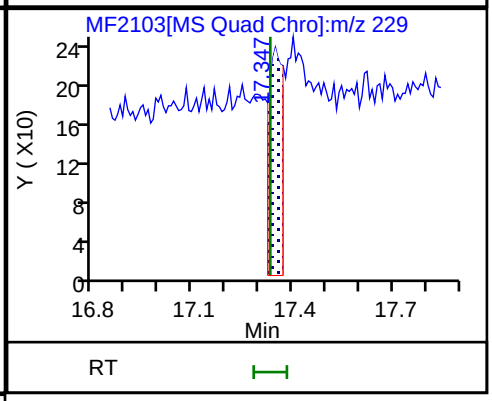
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D
Injection Date: 29-Jun-2021 20:50:06 Instrument ID: HP21585
Lims ID: MB 410-143125/1-A
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

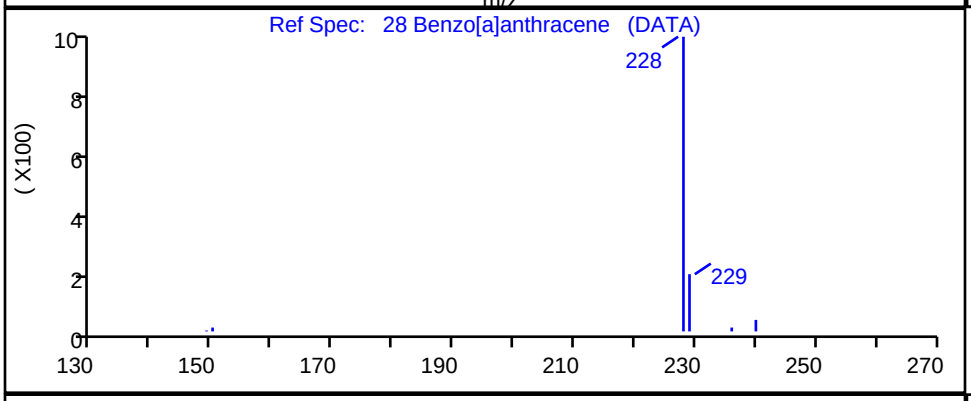
28 Benzo[a]anthracene, CAS: 56-55-3

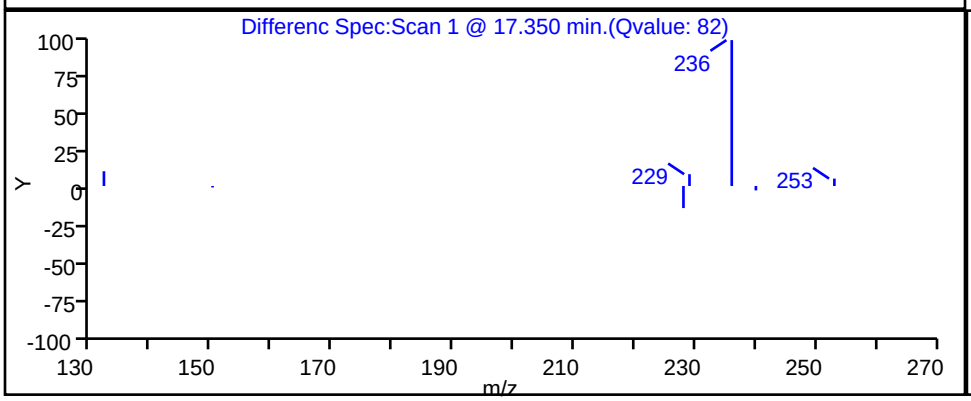


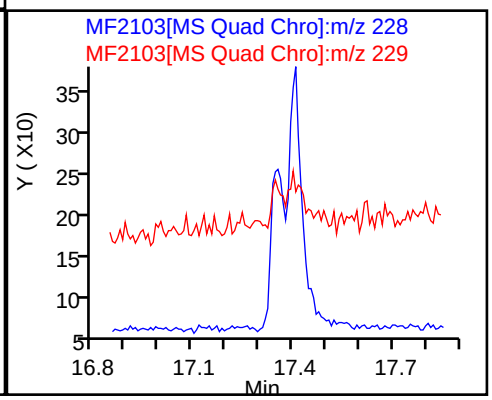








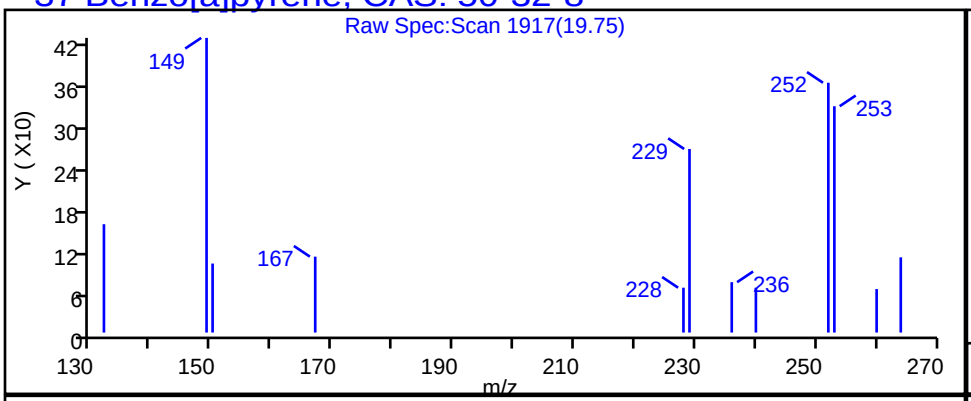


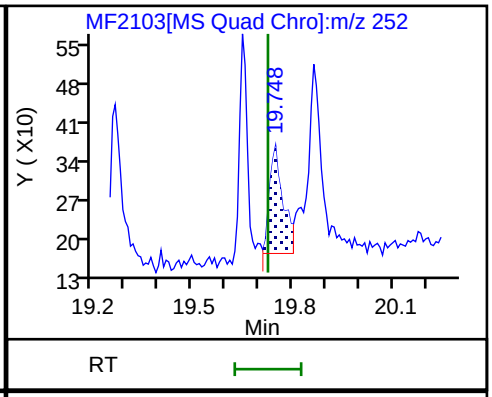


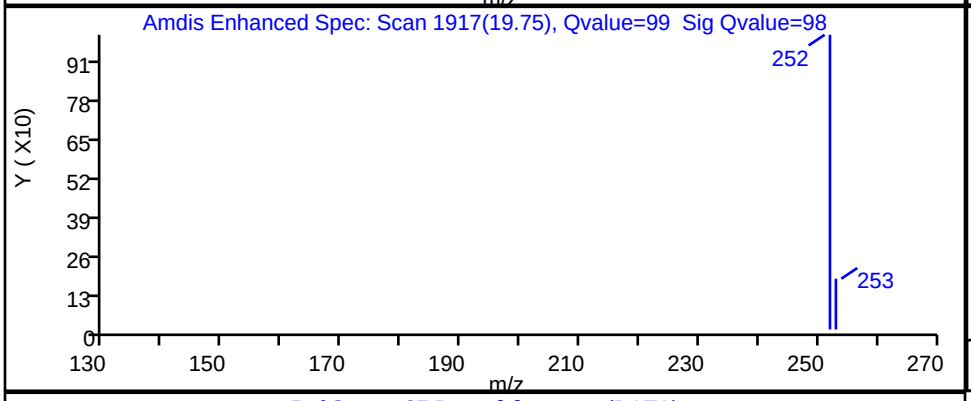
Eurofins Lancaster Laboratories Env, LLC

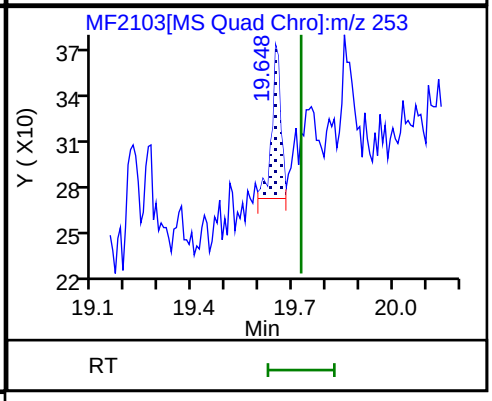
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

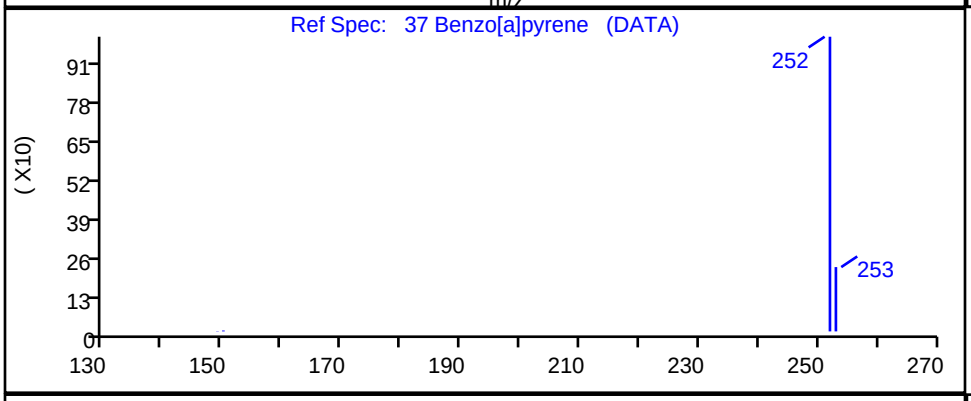
37 Benzo[a]pyrene, CAS: 50-32-8

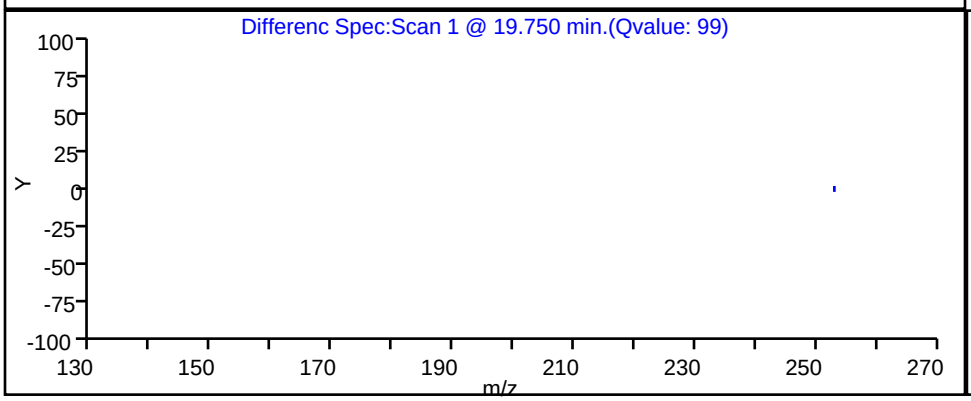


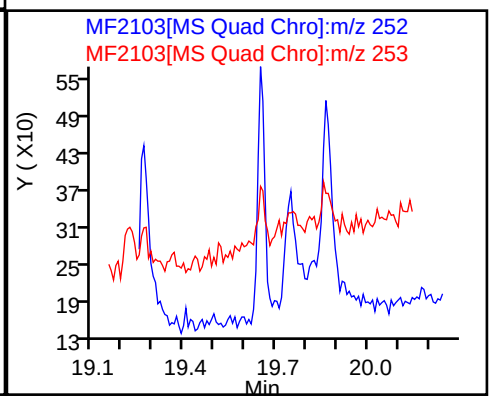












Report Date: 01-Jul-2021 16:41:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D

Injection Date: 29-Jun-2021 20:50:06 Instrument ID: HP21585

Lims ID: MB 410-143125/1-A

Client ID:

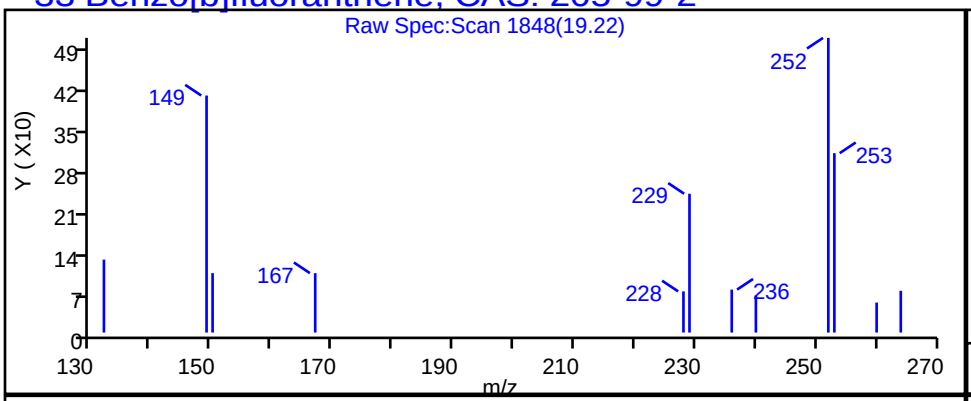
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 3

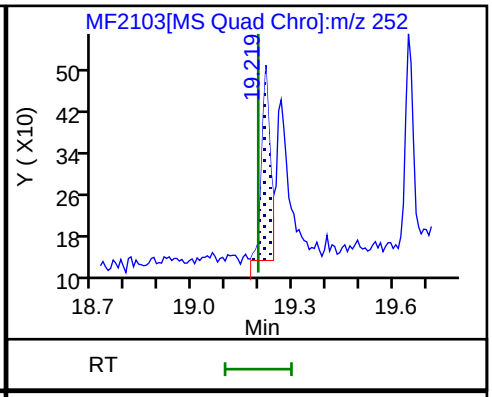
Injection Vol: 1.0 ul Dil. Factor: 1.0000

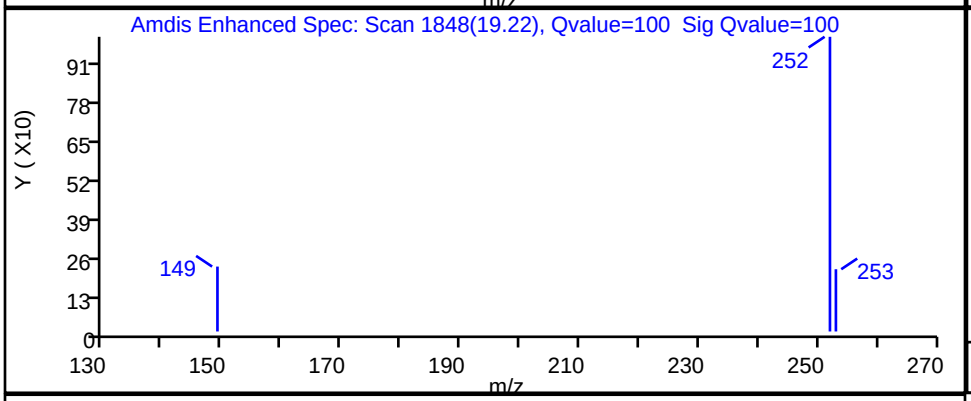
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

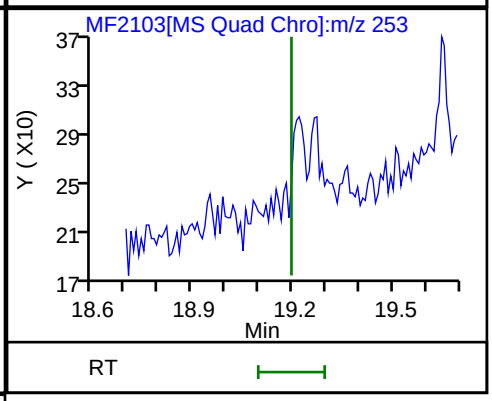
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

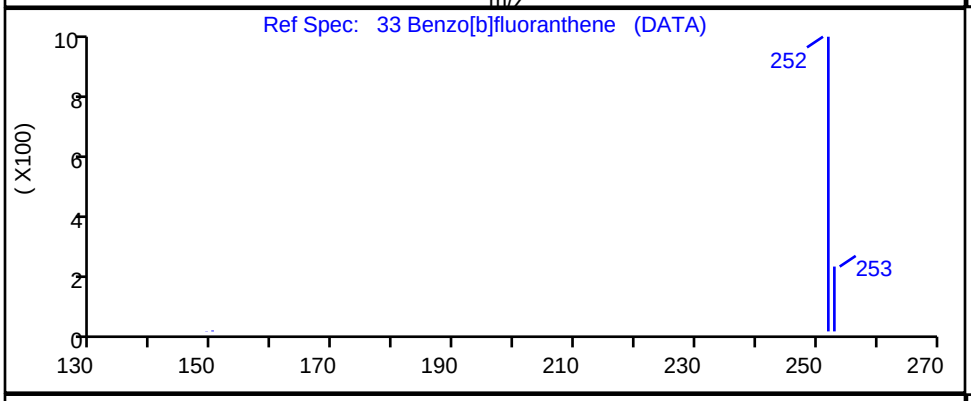
33 Benzo[b]fluoranthene, CAS: 205-99-2

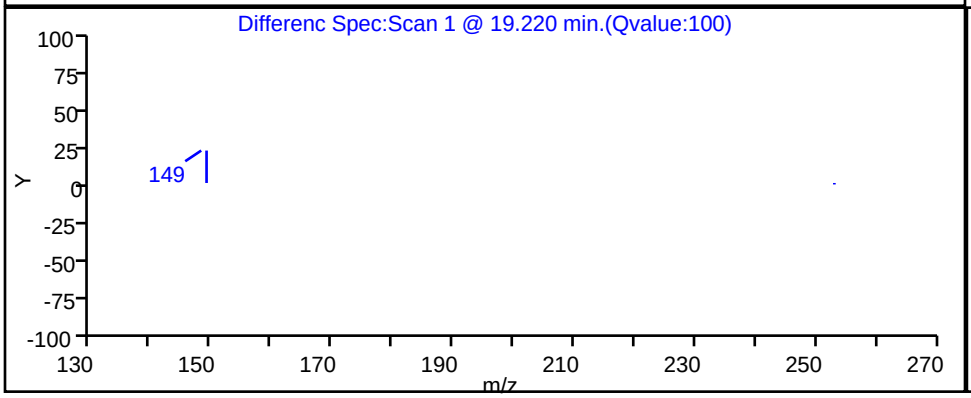


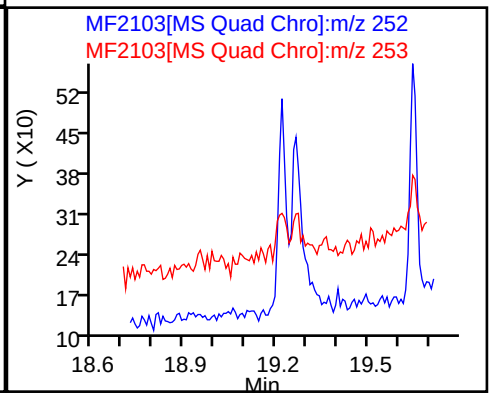












Report Date: 01-Jul-2021 16:41:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D

Injection Date: 29-Jun-2021 20:50:06 Instrument ID: HP21585

Lims ID: MB 410-143125/1-A

Client ID:

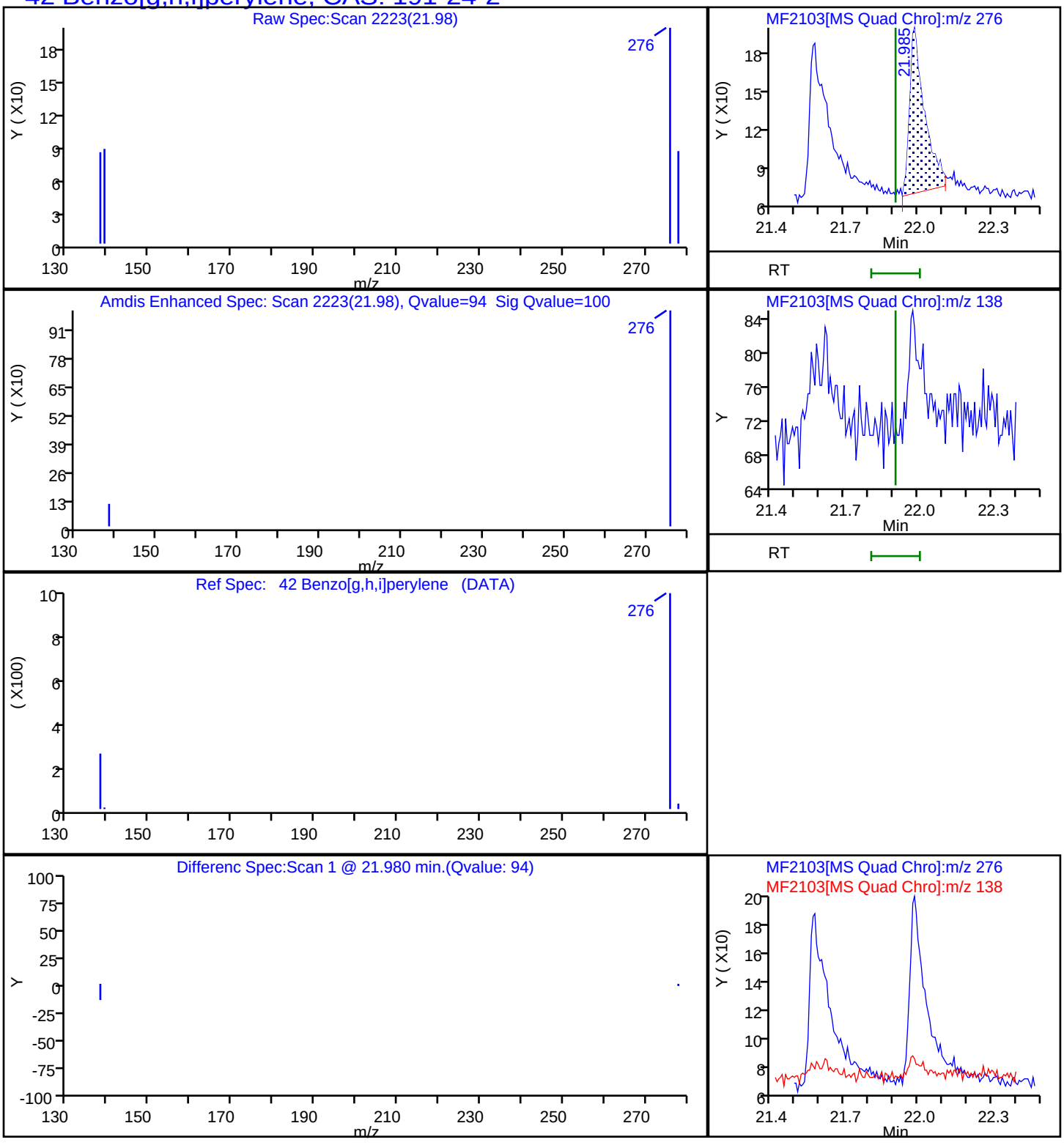
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

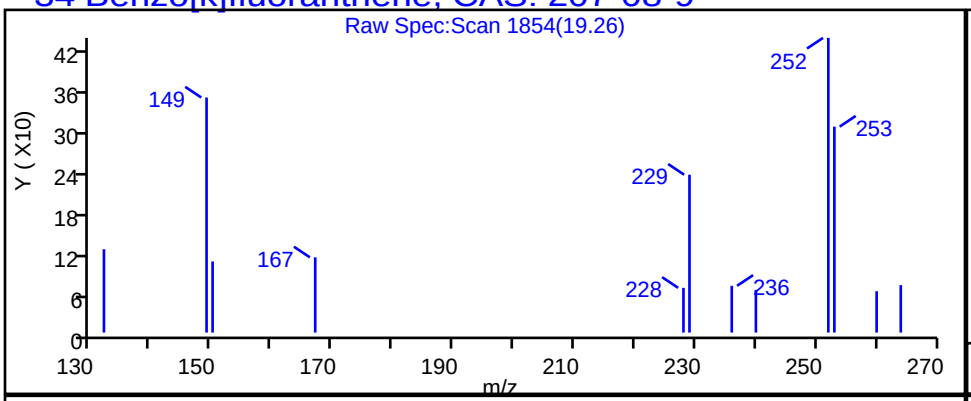
42 Benzo[g,h,i]perylene, CAS: 191-24-2

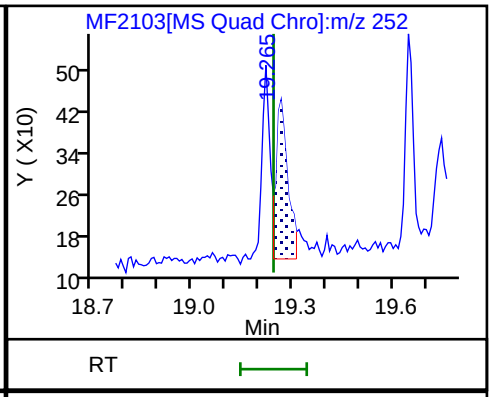


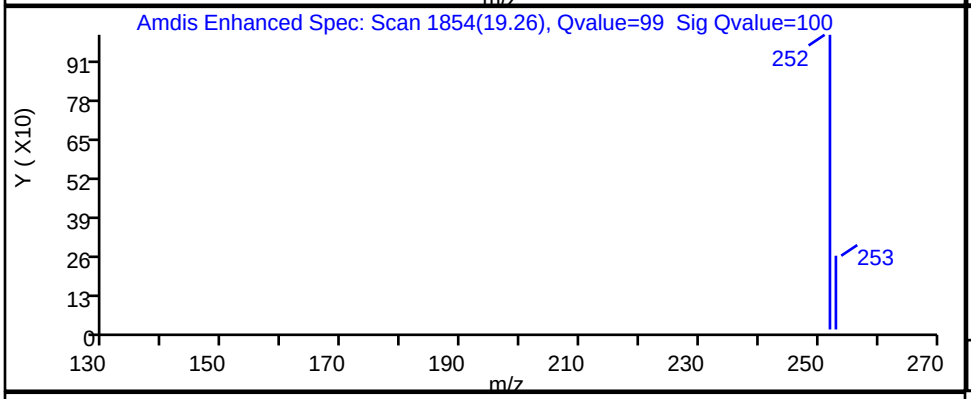
Eurofins Lancaster Laboratories Env, LLC

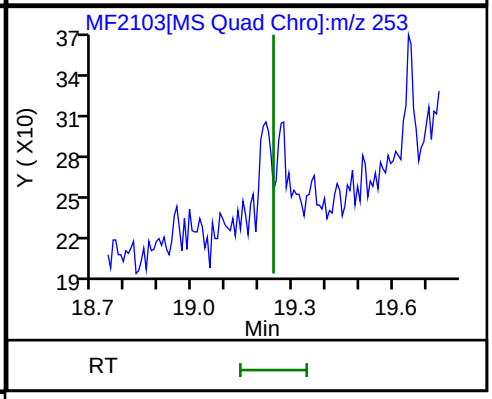
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Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

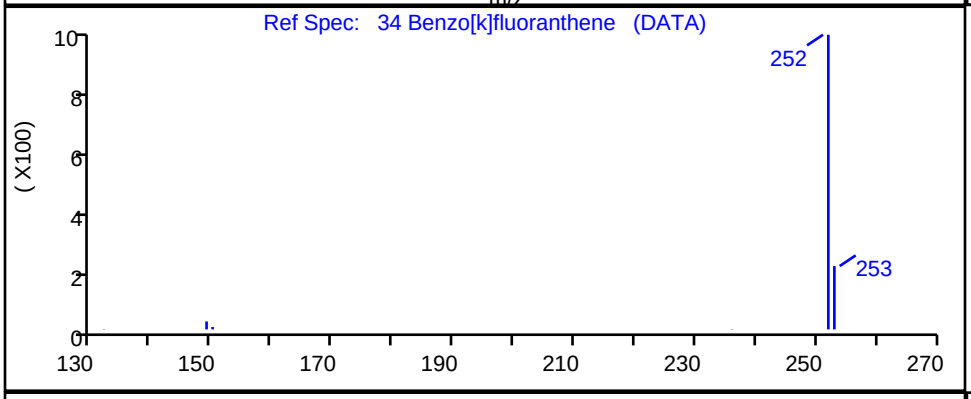
34 Benzo[k]fluoranthene, CAS: 207-08-9

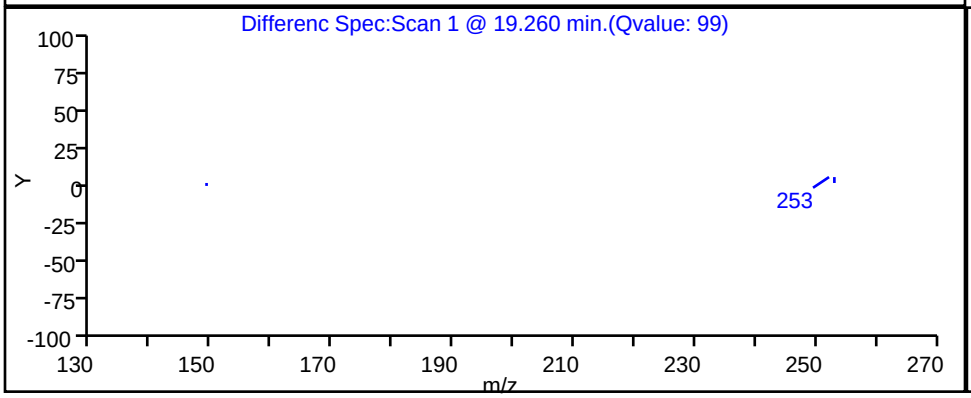


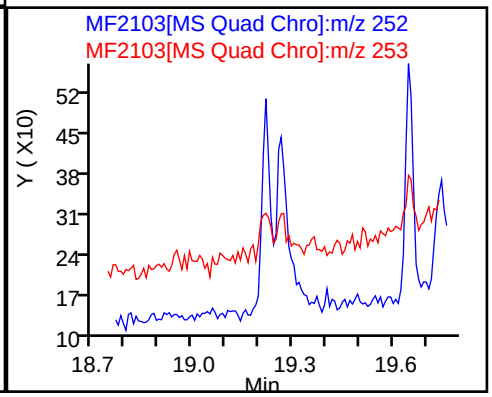








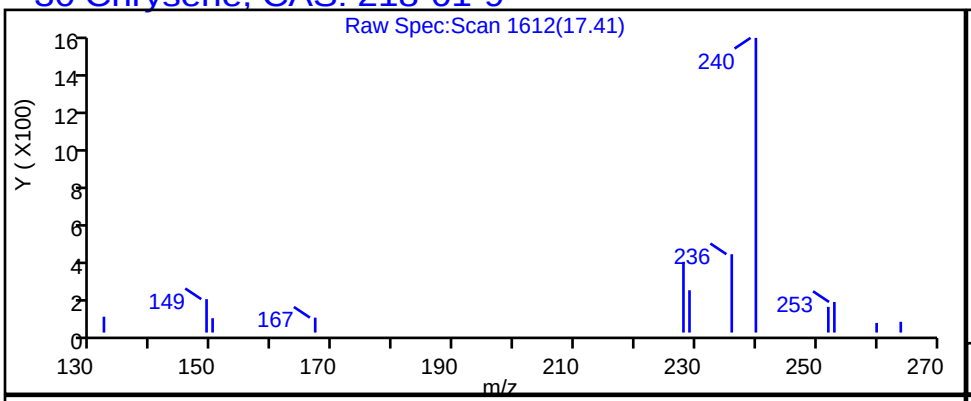


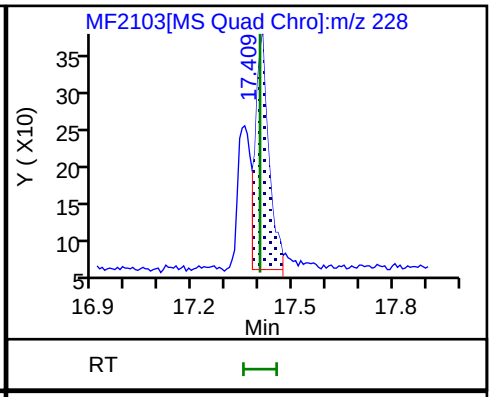


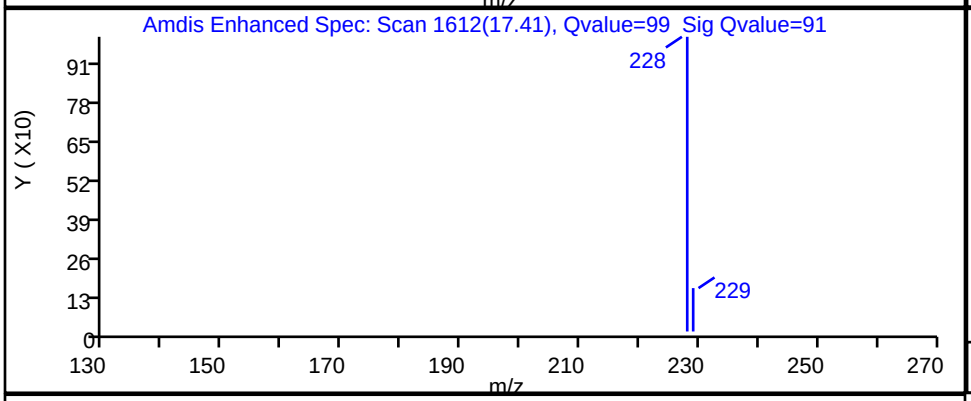
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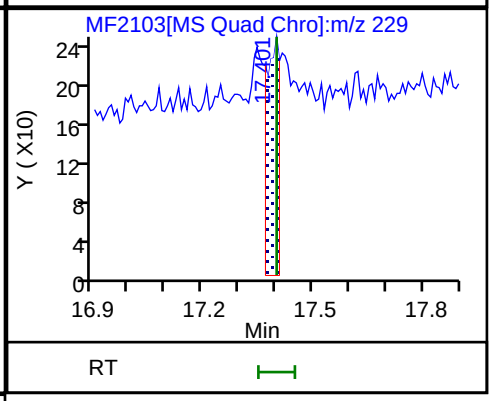
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D		
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585
Lims ID:	MB 410-143125/1-A		
Client ID:			
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

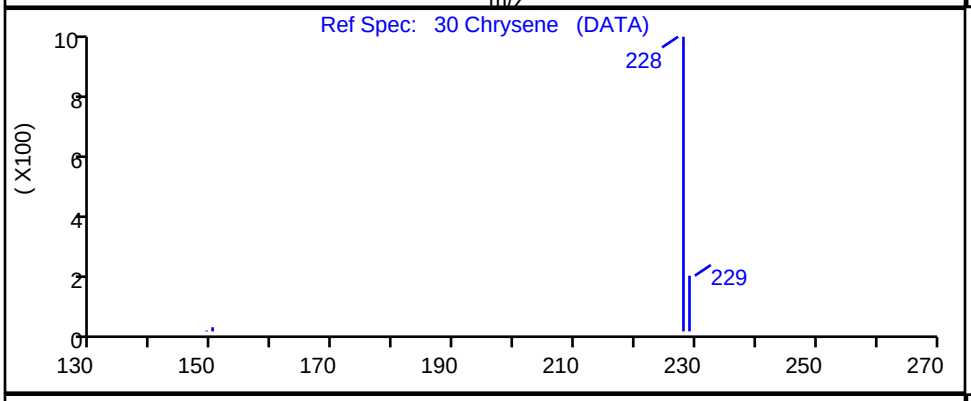
30 Chrysene, CAS: 218-01-9

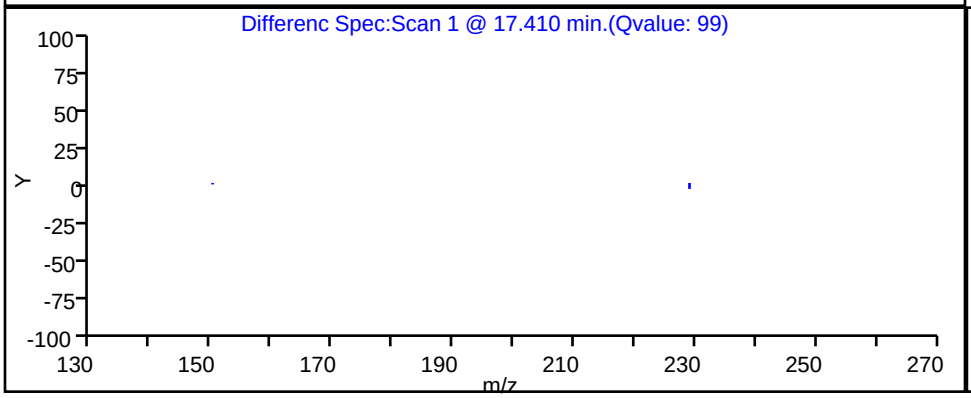


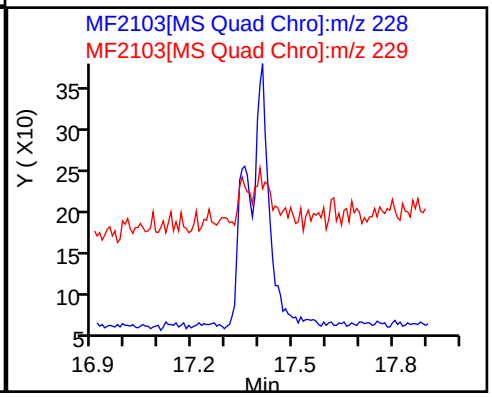












Report Date: 01-Jul-2021 16:41:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D

Injection Date: 29-Jun-2021 20:50:06 Instrument ID: HP21585

Lims ID: MB 410-143125/1-A

Client ID:

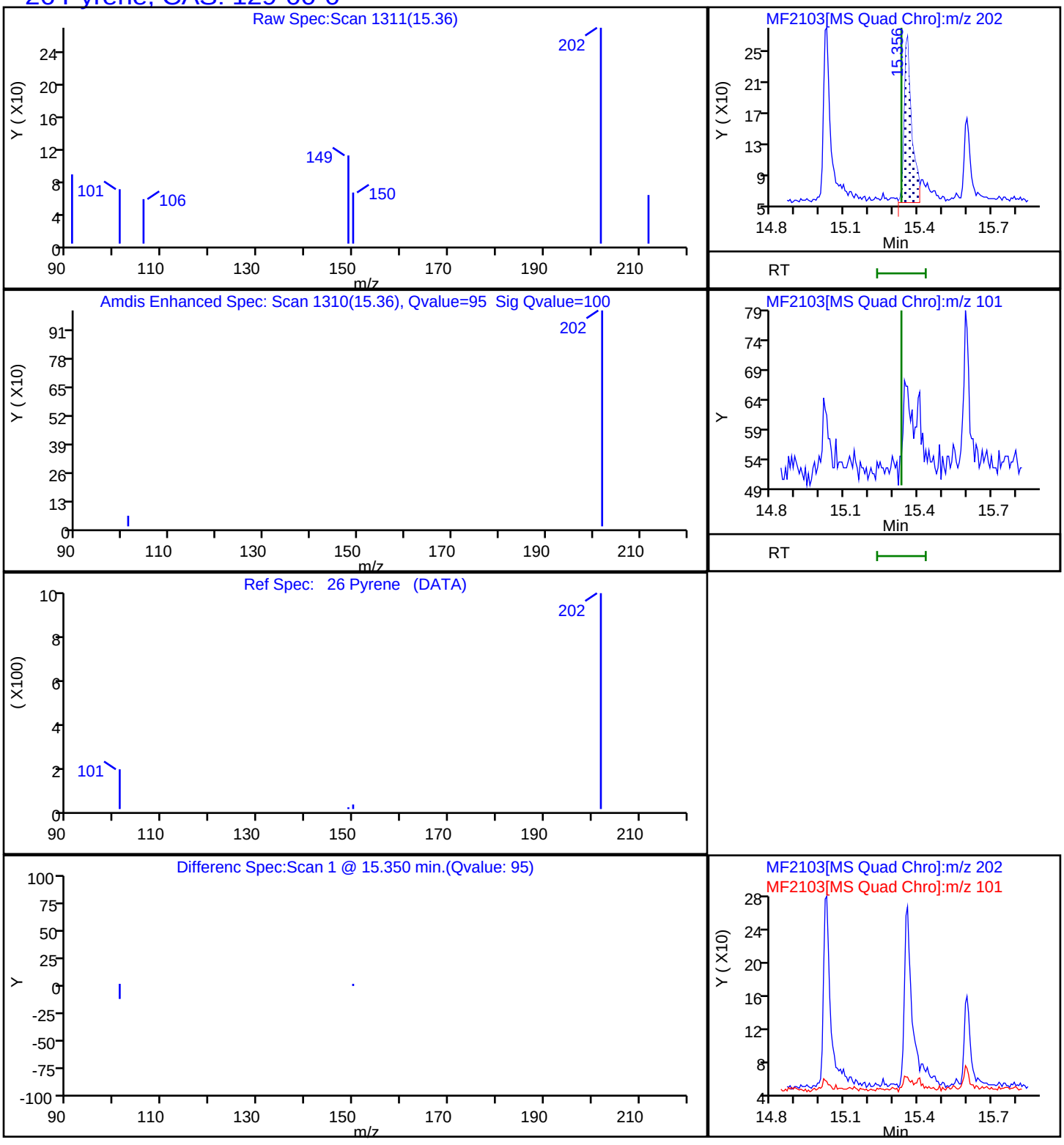
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

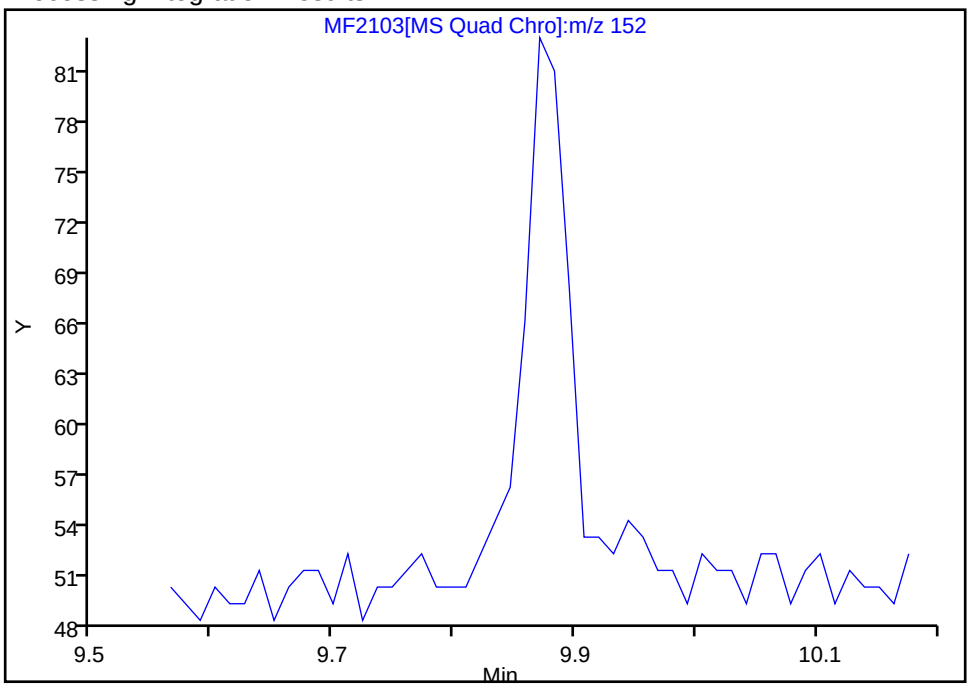
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 9 1-Methylnaphthalene-d10, CAS: 38072-94-5

Signal: 1

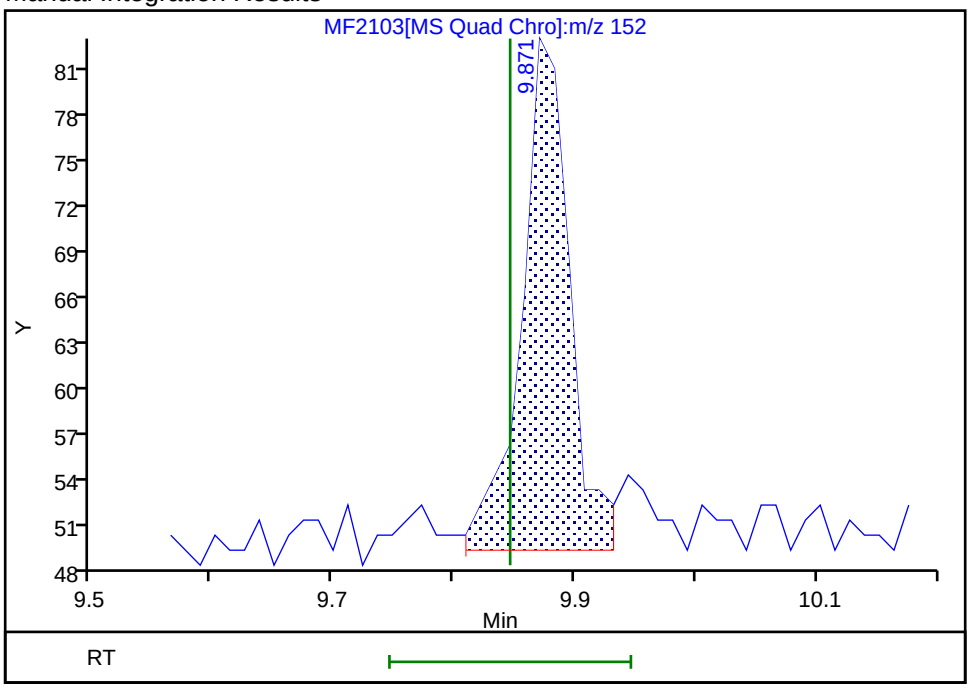
Not Detected
Expected RT: 9.85

Processing Integration Results



Manual Integration Results

RT: 9.87
Area: 93
Amount: 0.001577
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:22:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

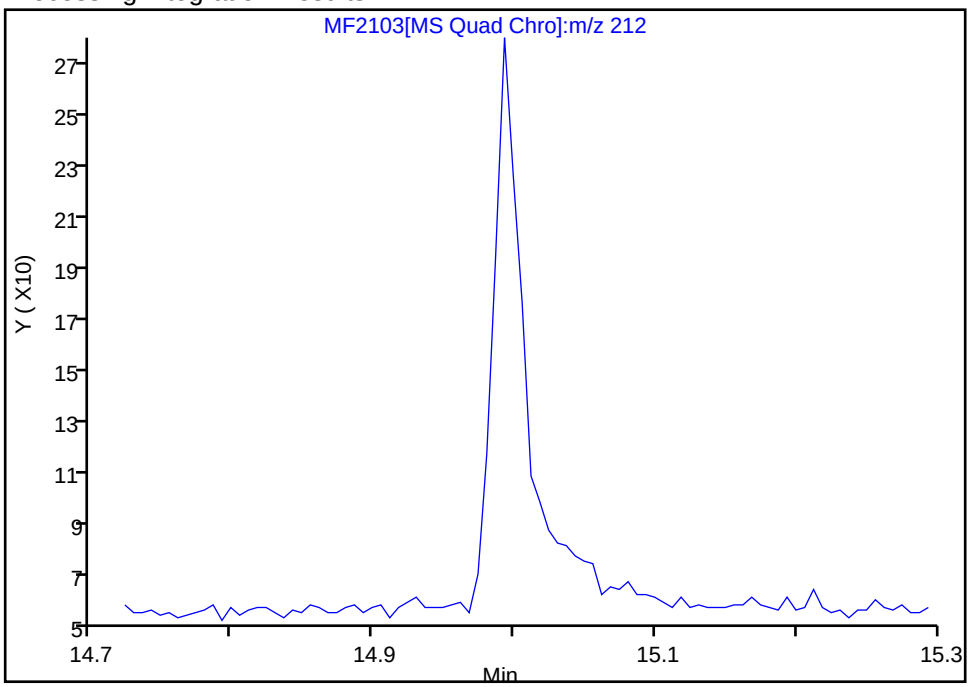
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

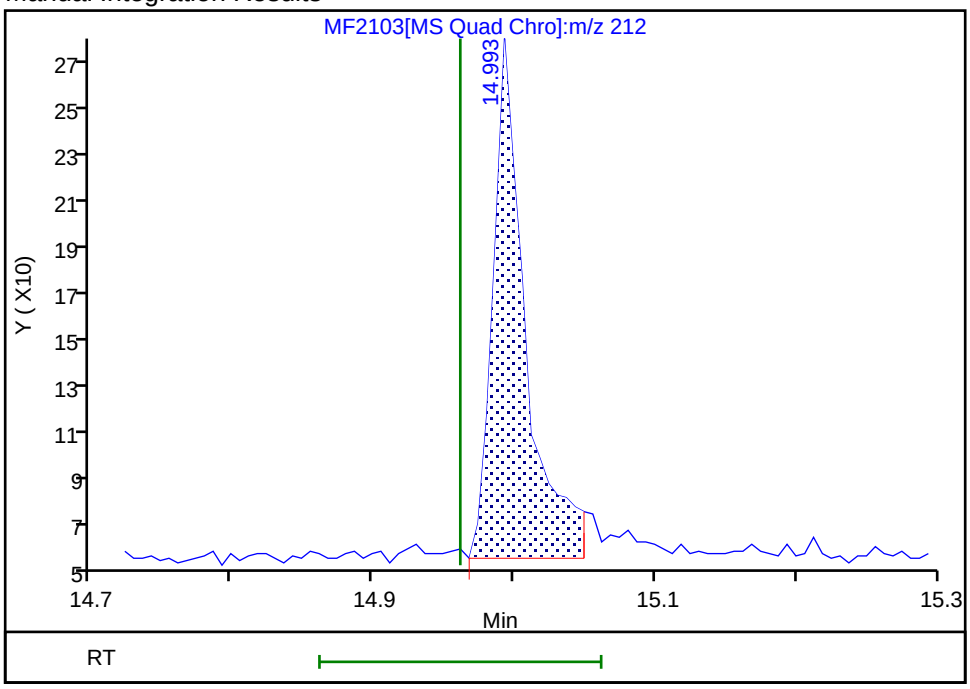
Not Detected
Expected RT: 14.96

Processing Integration Results



Manual Integration Results

RT: 14.99
Area: 353
Amount: 0.002426
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:22:41
Audit Action: Manually Integrated Audit Reason: Baseline

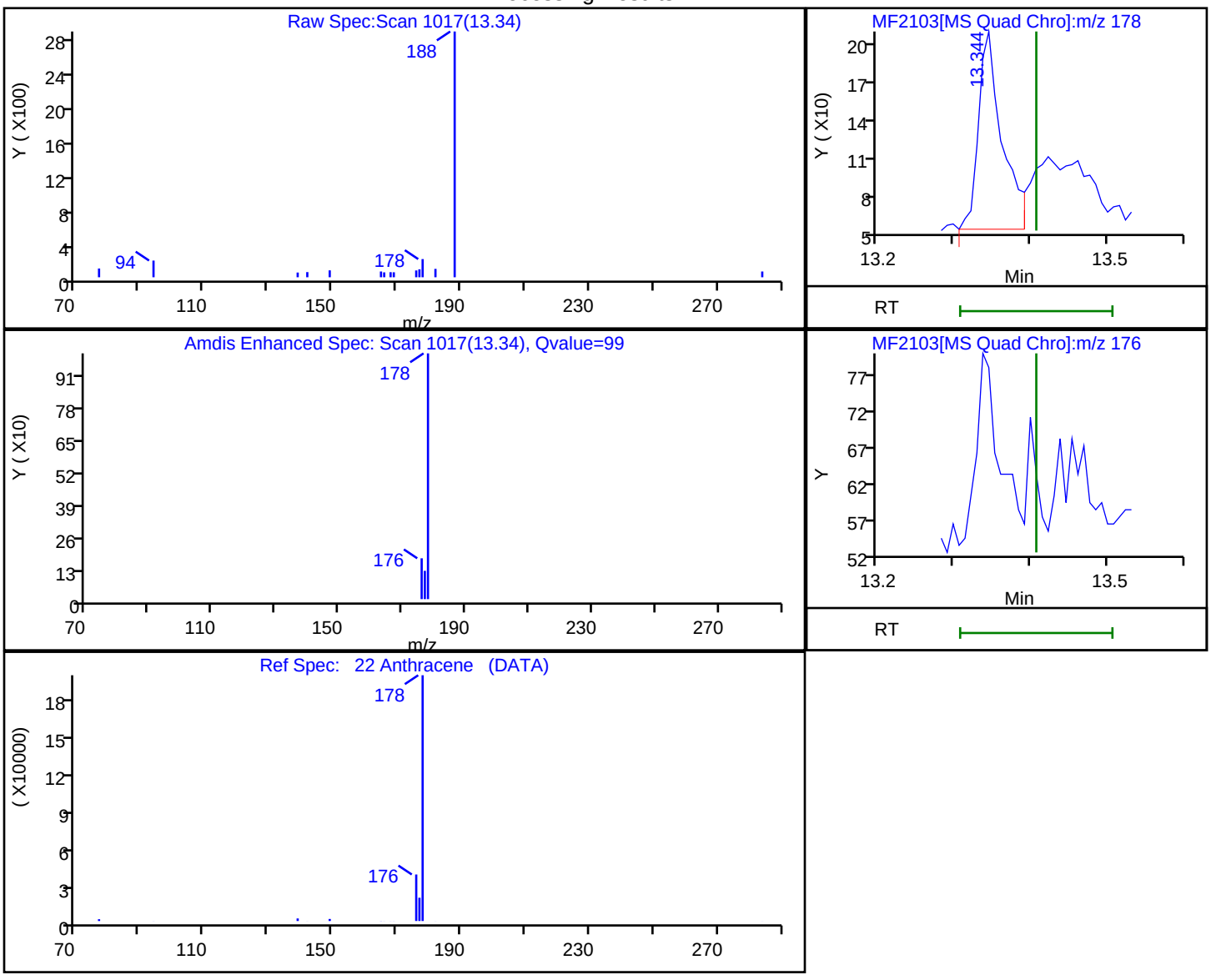
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
13.34	178.00	316	0.002588
13.41	176.00	0	

Reviewer: transuea, 01-Jul-2021 16:22:33

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

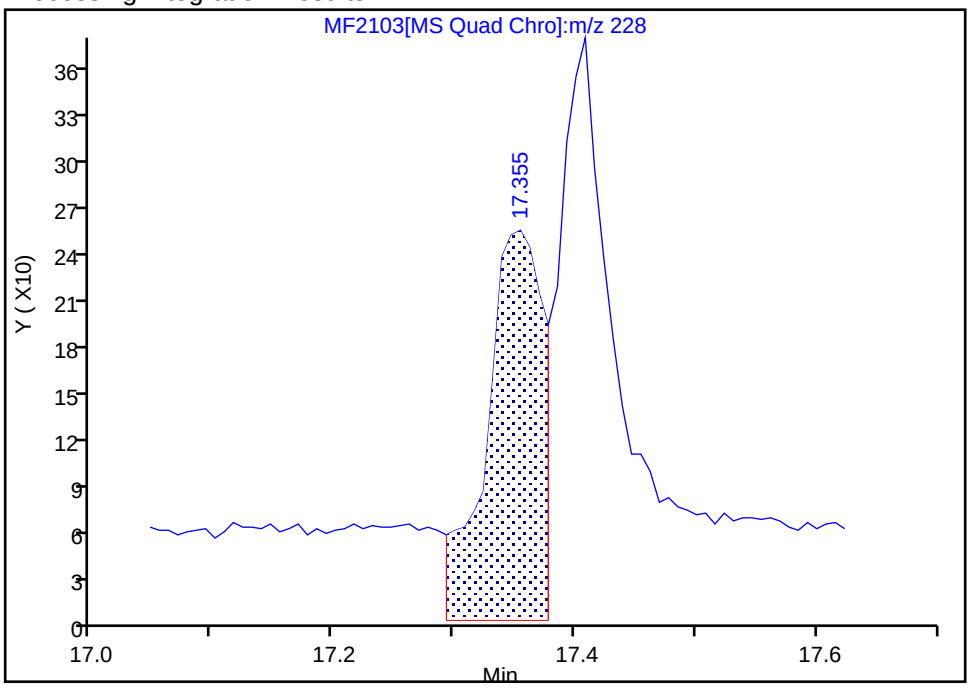
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

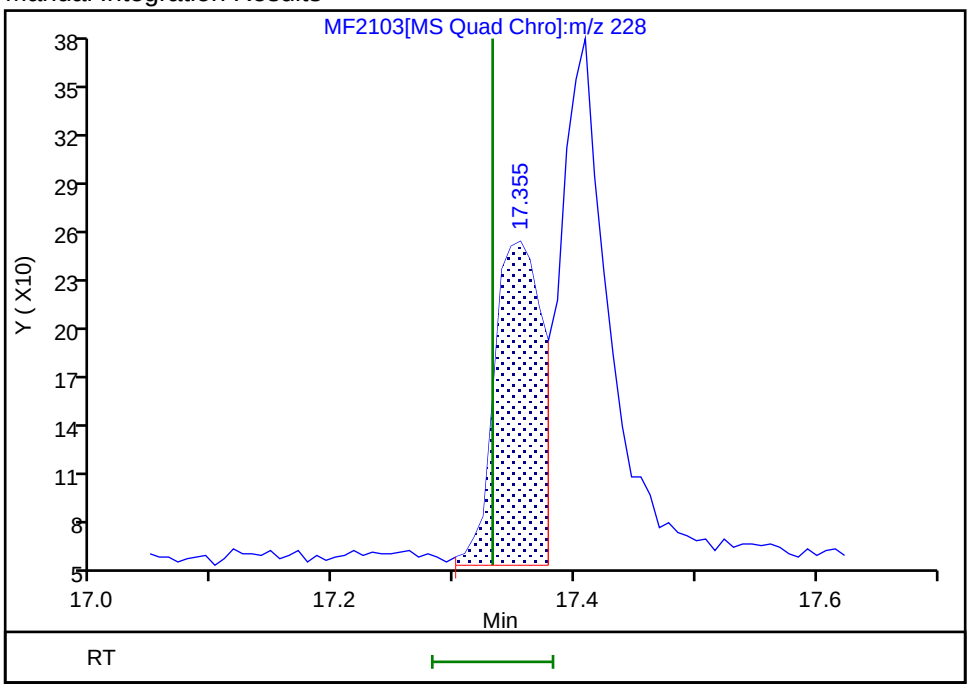
Processing Integration Results

RT: 17.35
Area: 797
Amount: 0.004372
Amount Units: ug/ml



Manual Integration Results

RT: 17.35
Area: 527
Amount: 0.002891
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:04

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

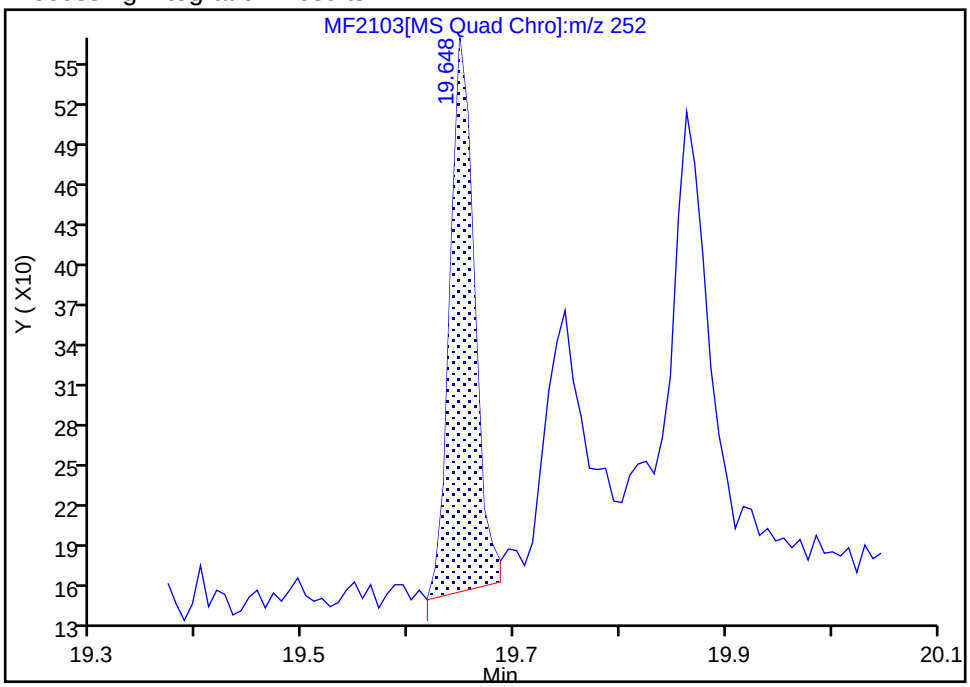
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

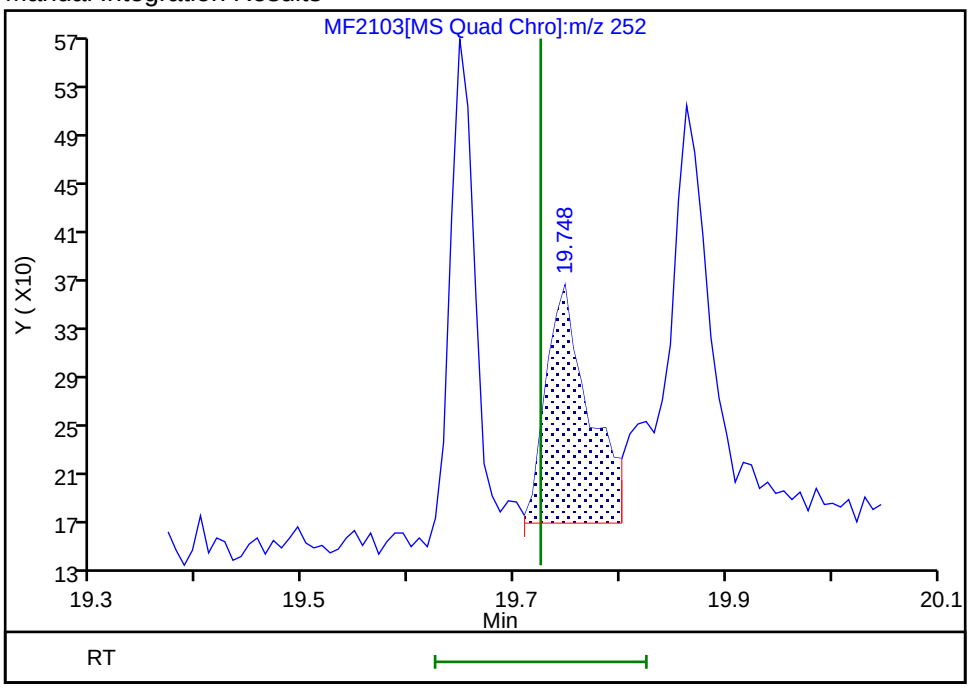
Processing Integration Results

RT: 19.65
Area: 645
Amount: 0.003541
Amount Units: ug/ml



Manual Integration Results

RT: 19.75
Area: 535
Amount: 0.002937
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:49

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

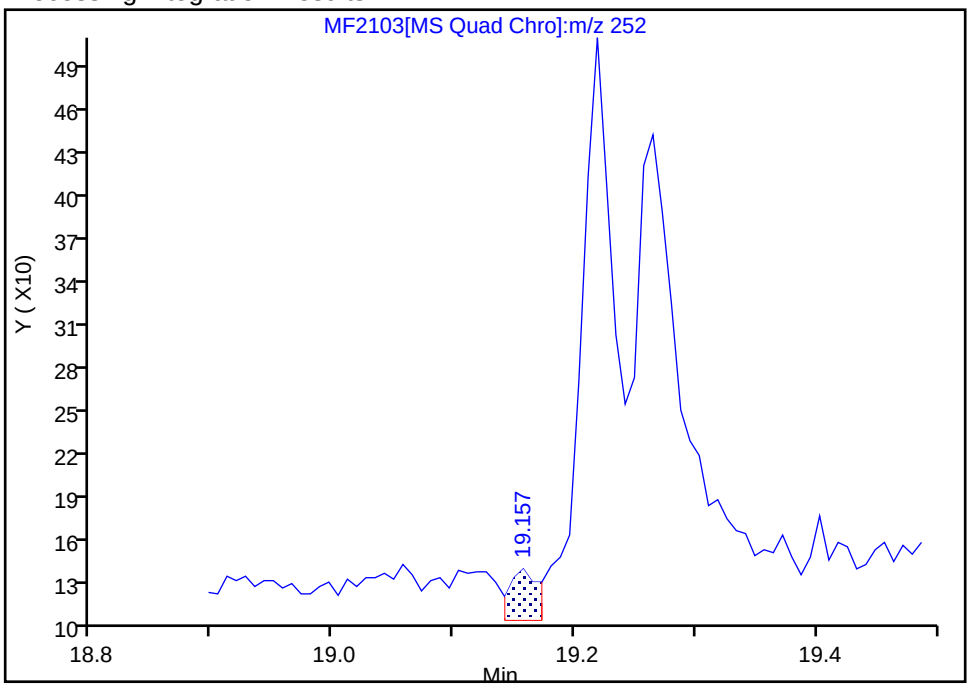
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

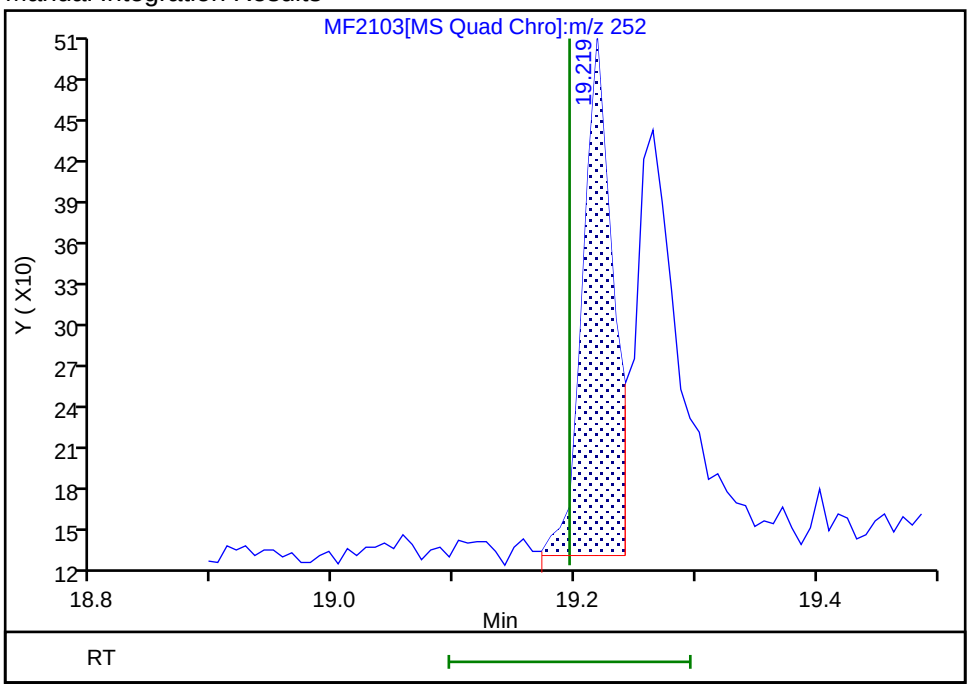
Processing Integration Results

RT: 19.16
Area: 51
Amount: 0.000270
Amount Units: ug/ml



Manual Integration Results

RT: 19.22
Area: 629
Amount: 0.003336
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

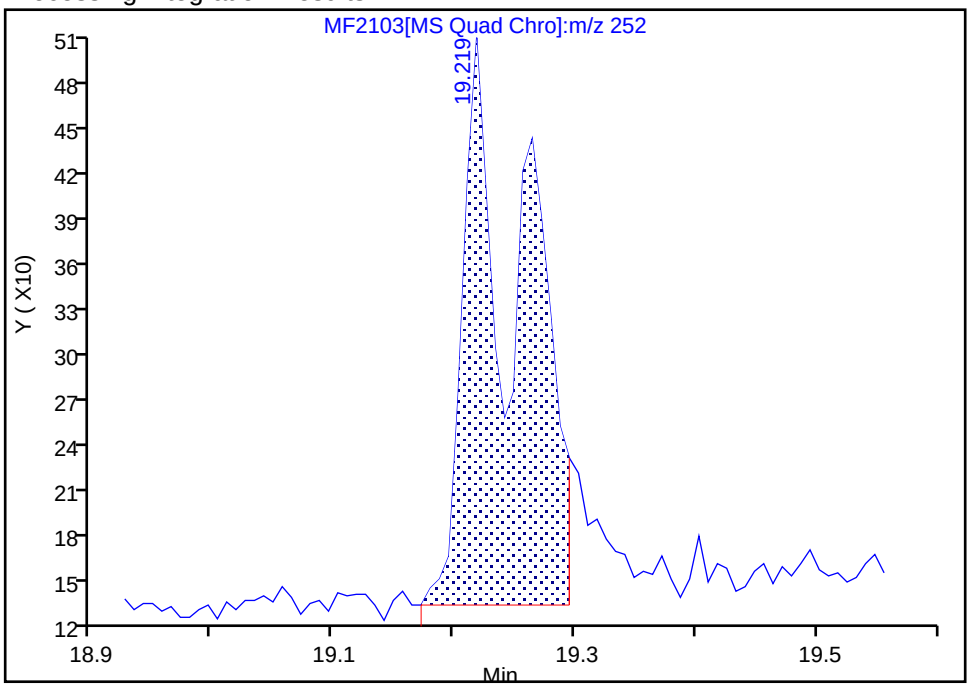
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

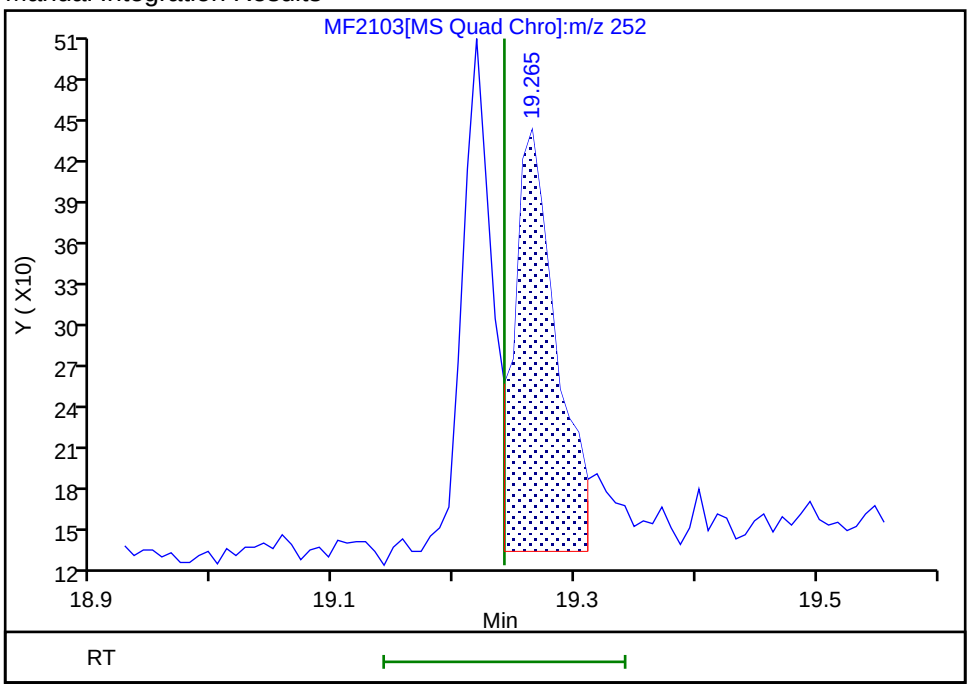
Processing Integration Results

RT: 19.22
Area: 1257
Amount: 0.006147
Amount Units: ug/ml



Manual Integration Results

RT: 19.26
Area: 714
Amount: 0.003492
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:41

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

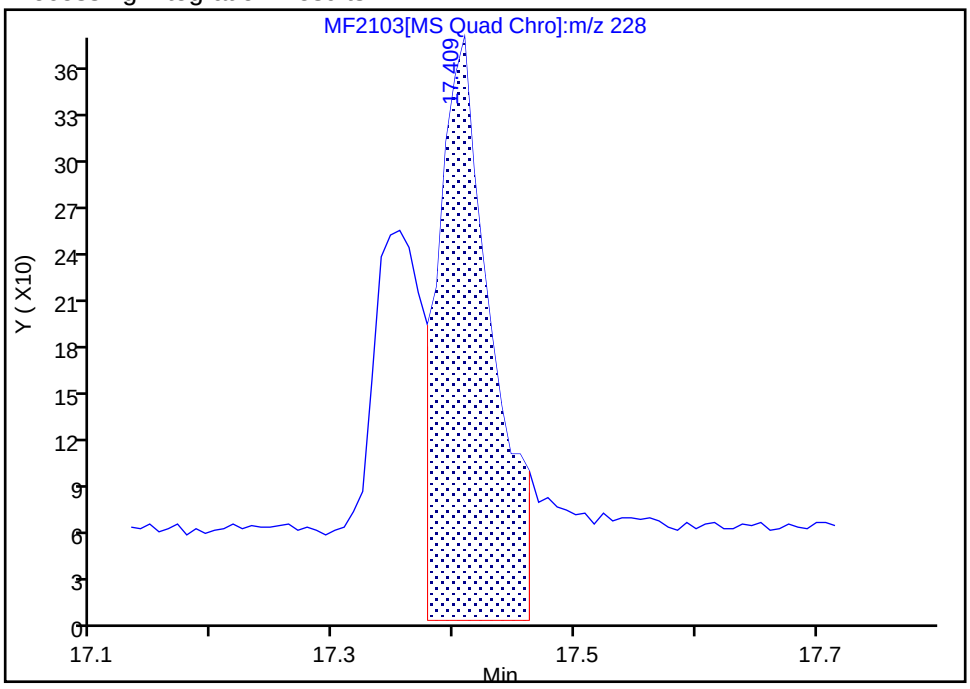
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

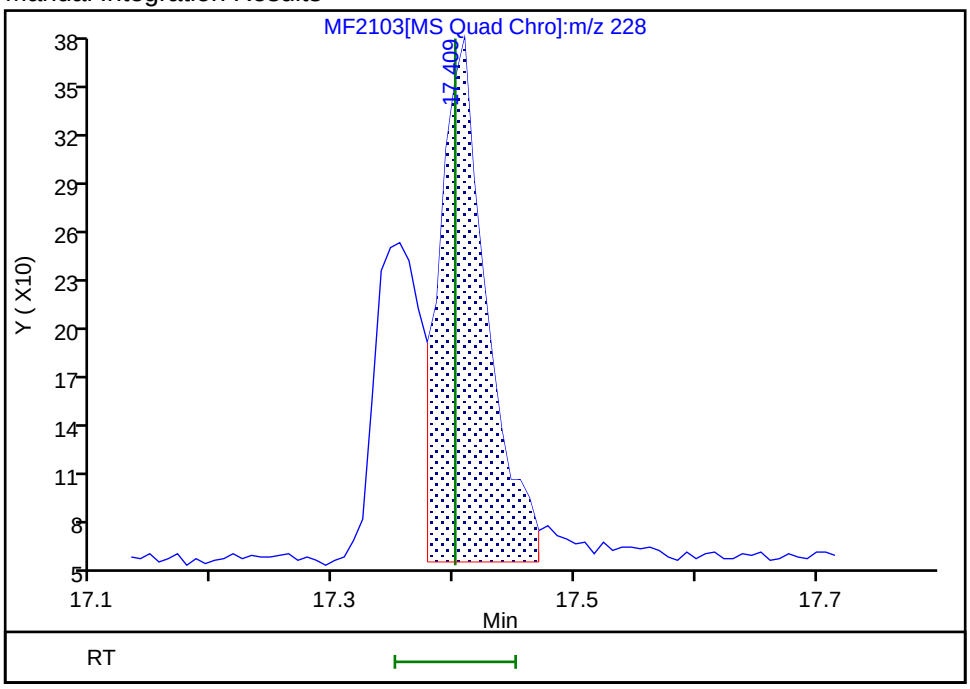
Processing Integration Results

RT: 17.41
Area: 1127
Amount: 0.005864
Amount Units: ug/ml



Manual Integration Results

RT: 17.41
Area: 851
Amount: 0.004428
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

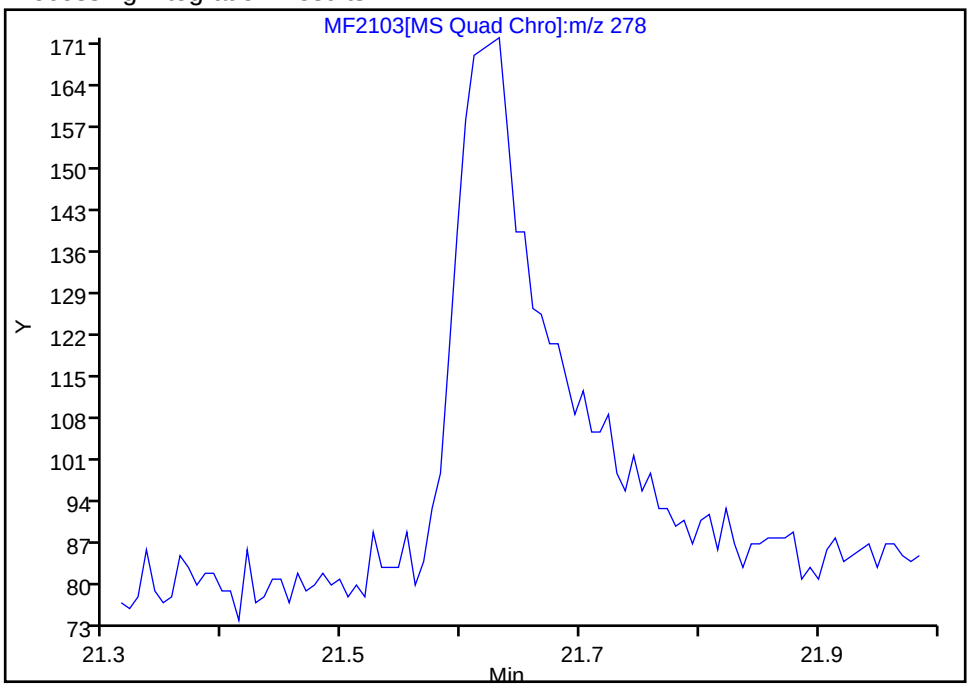
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

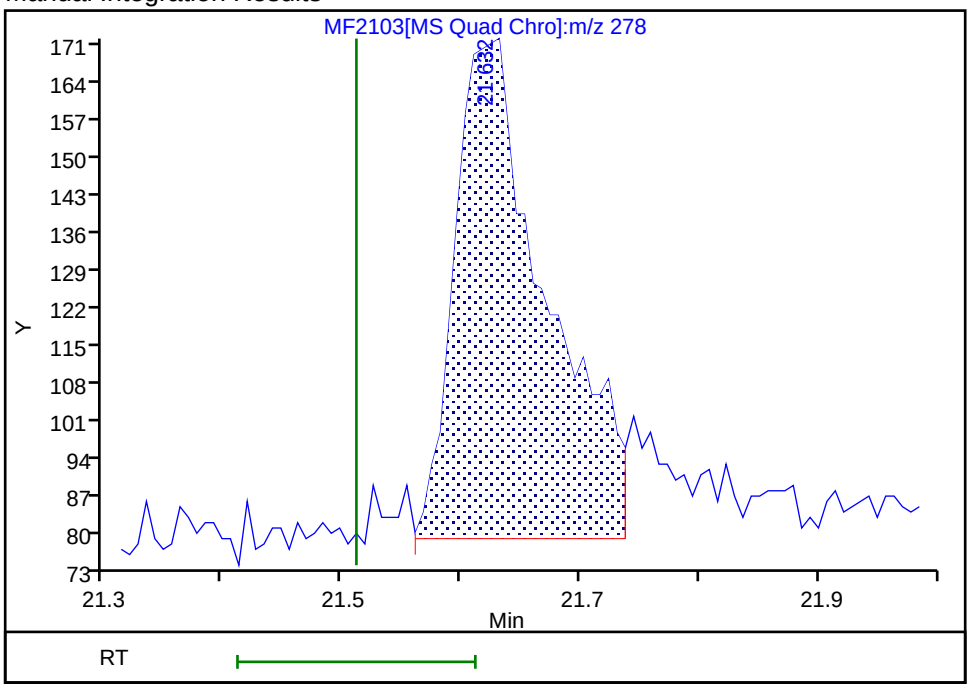
Not Detected
Expected RT: 21.51

Processing Integration Results



Manual Integration Results

RT: 21.63
Area: 500
Amount: 0.002601
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:24:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

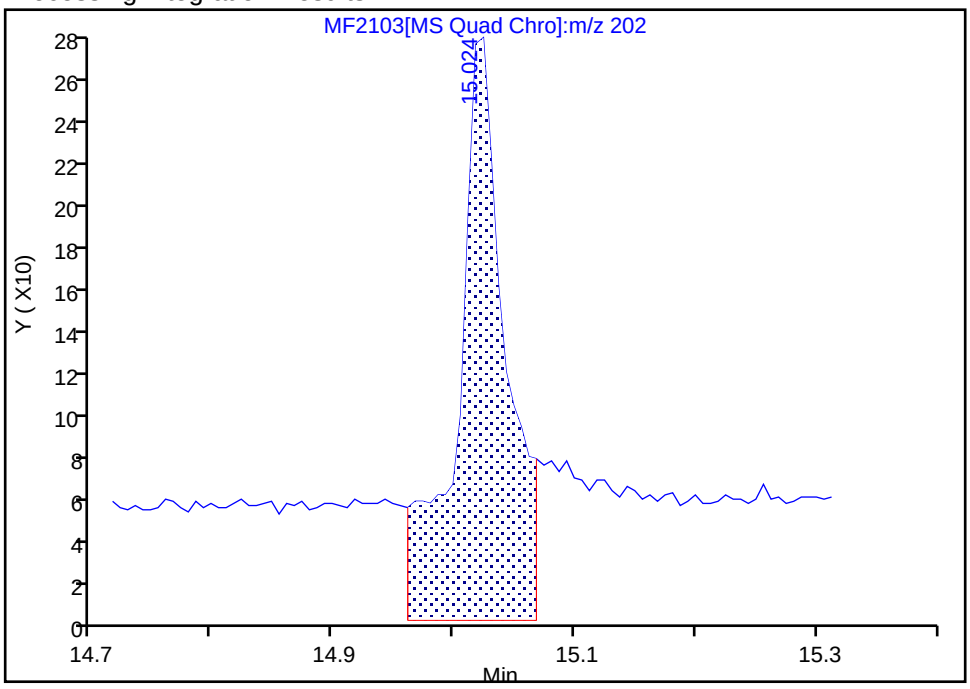
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

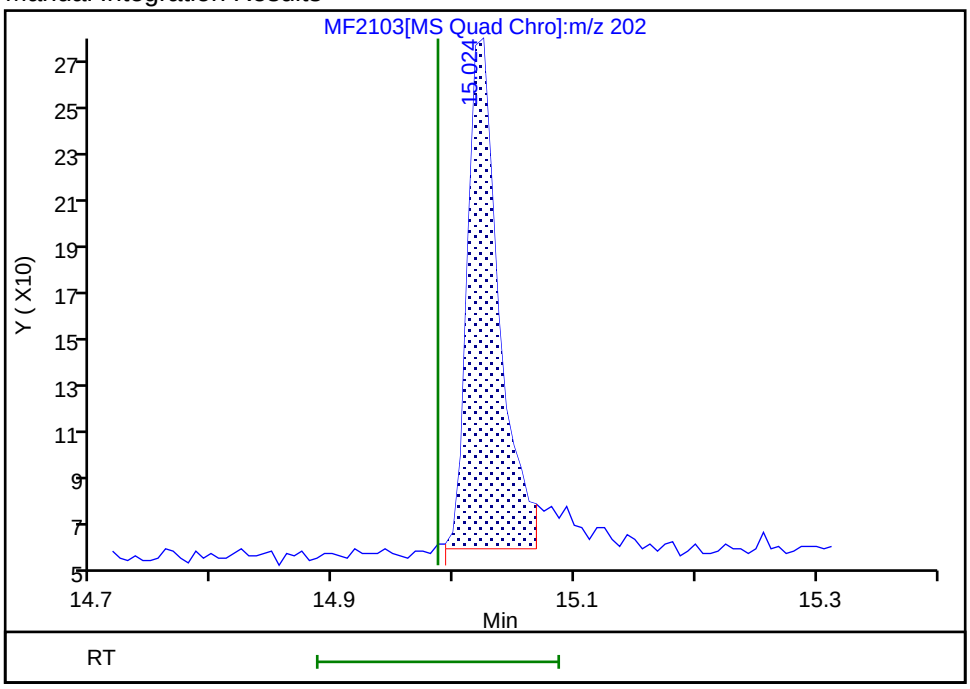
Processing Integration Results

RT: 15.02
Area: 755
Amount: 0.004349
Amount Units: ug/ml



Manual Integration Results

RT: 15.02
Area: 392
Amount: 0.002258
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:22:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

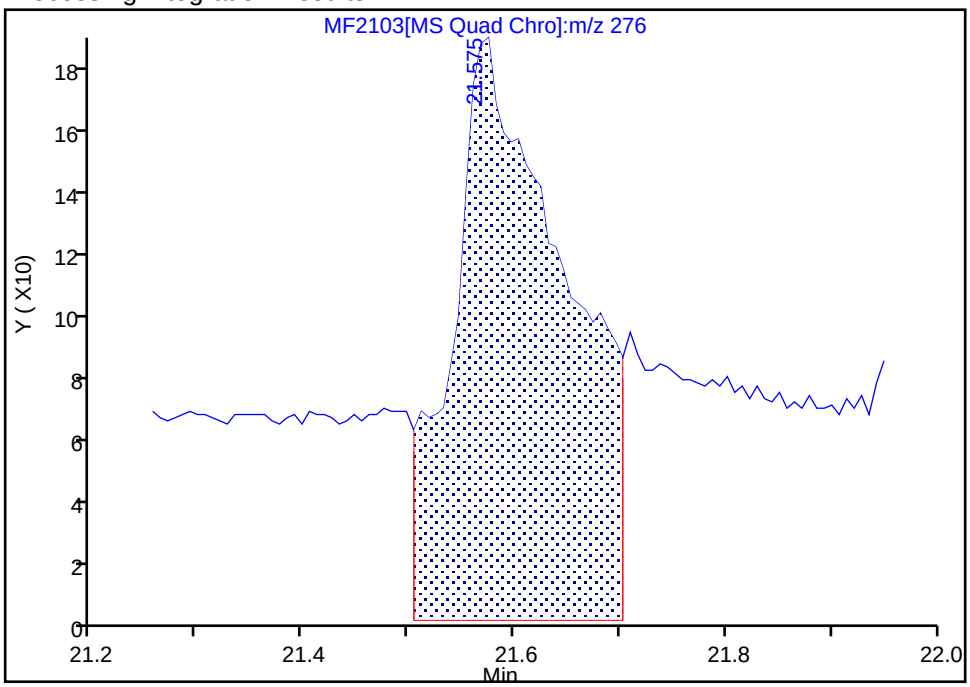
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2103.D				
Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

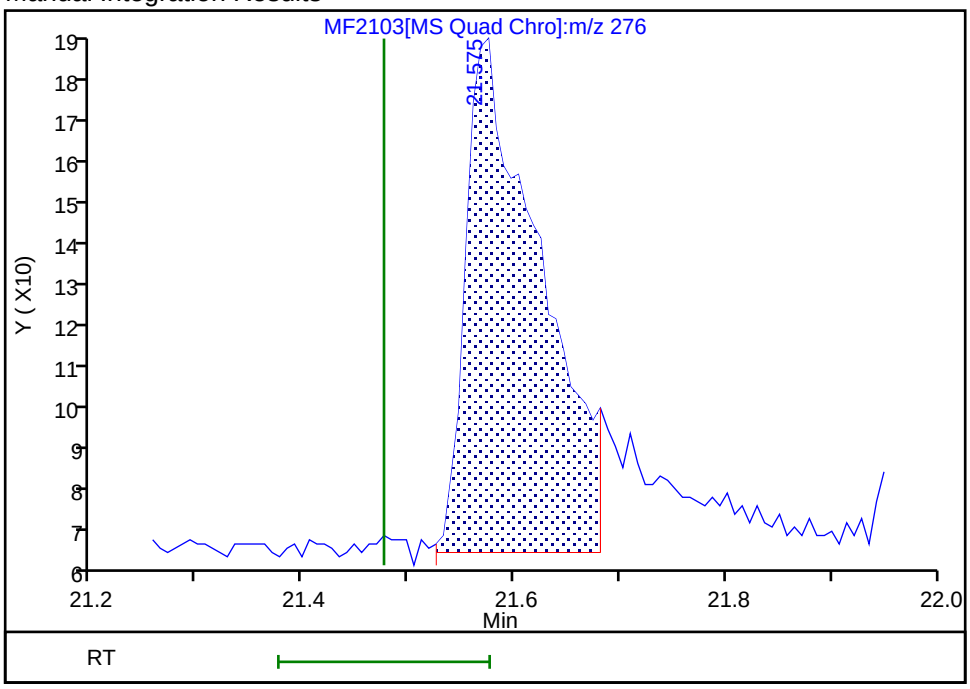
Processing Integration Results

RT: 21.58
Area: 1373
Amount: 0.008026
Amount Units: ug/ml



Manual Integration Results

RT: 21.58
Area: 589
Amount: 0.003443
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

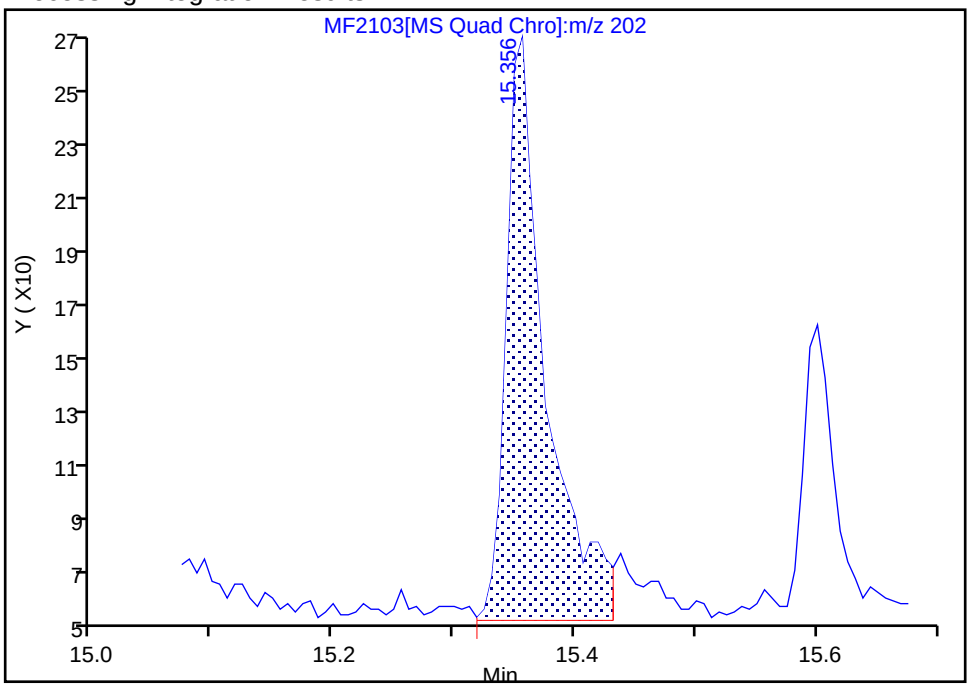
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Injection Date:	29-Jun-2021 20:50:06	Instrument ID:	HP21585		
Lims ID:	MB 410-143125/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

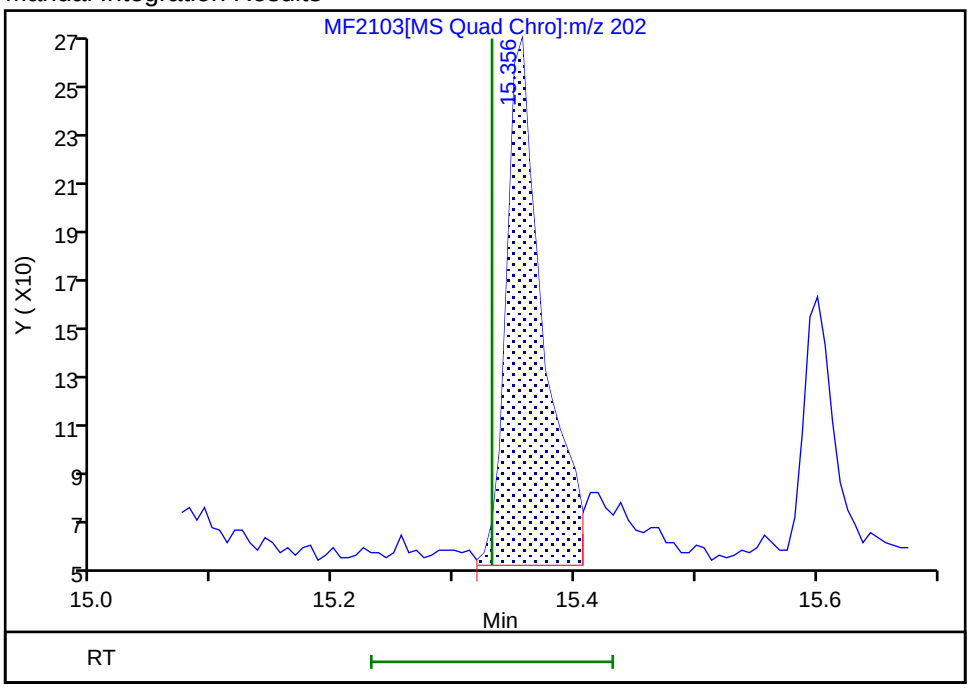
Processing Integration Results

RT: 15.36
Area: 470
Amount: 0.002700
Amount Units: ug/ml



Manual Integration Results

RT: 15.36
Area: 439
Amount: 0.002522
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:23:12

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-143664/1-A

Matrix: Water Lab File ID: NF1702.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 250(mL) Date Analyzed: 06/30/2021 20:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143979 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	0.0130	J	0.050	0.010
50-32-8	Benzo[a]pyrene	0.0136	J	0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.0172	J	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.0261	J	0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.0170	J	0.050	0.010
218-01-9	Chrysene	0.0159	J	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.0454	J	0.050	0.020
206-44-0	Fluoranthene	0.0104	J	0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.0215	J	0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	0.0120	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	79		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		36-111
93951-69-0	Fluoranthene-d10 (Surr)	87		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D
Lims ID: MB 410-143664/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2021 20:12:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-143664/1-A
Misc. Info.: 410-0033299-003
Operator ID: art12405 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 07:04:08 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: transuea Date: 30-Jun-2021 21:22:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	96	223326	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.040	8.040	0.000	100	795439	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.296	9.296	0.000	99	348600	0.2500	0.2058	
* 13 Acenaphthene-d10	164	10.878	10.888	-0.010	91	430451	0.2500	0.2500	
* 20 Phenanthrene-d10	188	12.807	12.807	0.000	100	840353	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.471	14.471	0.000	97	756315	0.2500	0.2187	
25 Fluoranthene	202	14.496	14.496	0.000	95	10326		0.002599	
26 Pyrene	202	14.841	14.841	0.000	97	12478		0.003009	
28 Benzo[a]anthracene	228	16.870	16.871	0.000	6	13127		0.003243	
* 29 Chrysene-d12	240	16.886	16.886	0.000	82	821886	0.2500	0.2500	
30 Chrysene	228	16.932	16.932	0.000	100	15197		0.003986	
33 Benzo[b]fluoranthene	252	18.742	18.742	0.000	100	18239		0.004288	
34 Benzo[k]fluoranthene	252	18.788	18.788	0.000	99	17839		0.004244	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.233	19.241	-0.007	97	649799	0.2500	0.1968	
37 Benzo[a]pyrene	252	19.271	19.271	0.000	99	12541		0.003391	
* 38 Perylene-d12	264	19.363	19.371	-0.008	96	894460	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.018	21.018	0.000	95	16097		0.005381	
41 Dibenz(a,h)anthracene	278	21.075	21.075	0.000	94	16864		0.0113	
42 Benzo[g,h,i]perylene	276	21.449	21.449	0.000	95	23798		0.006523	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

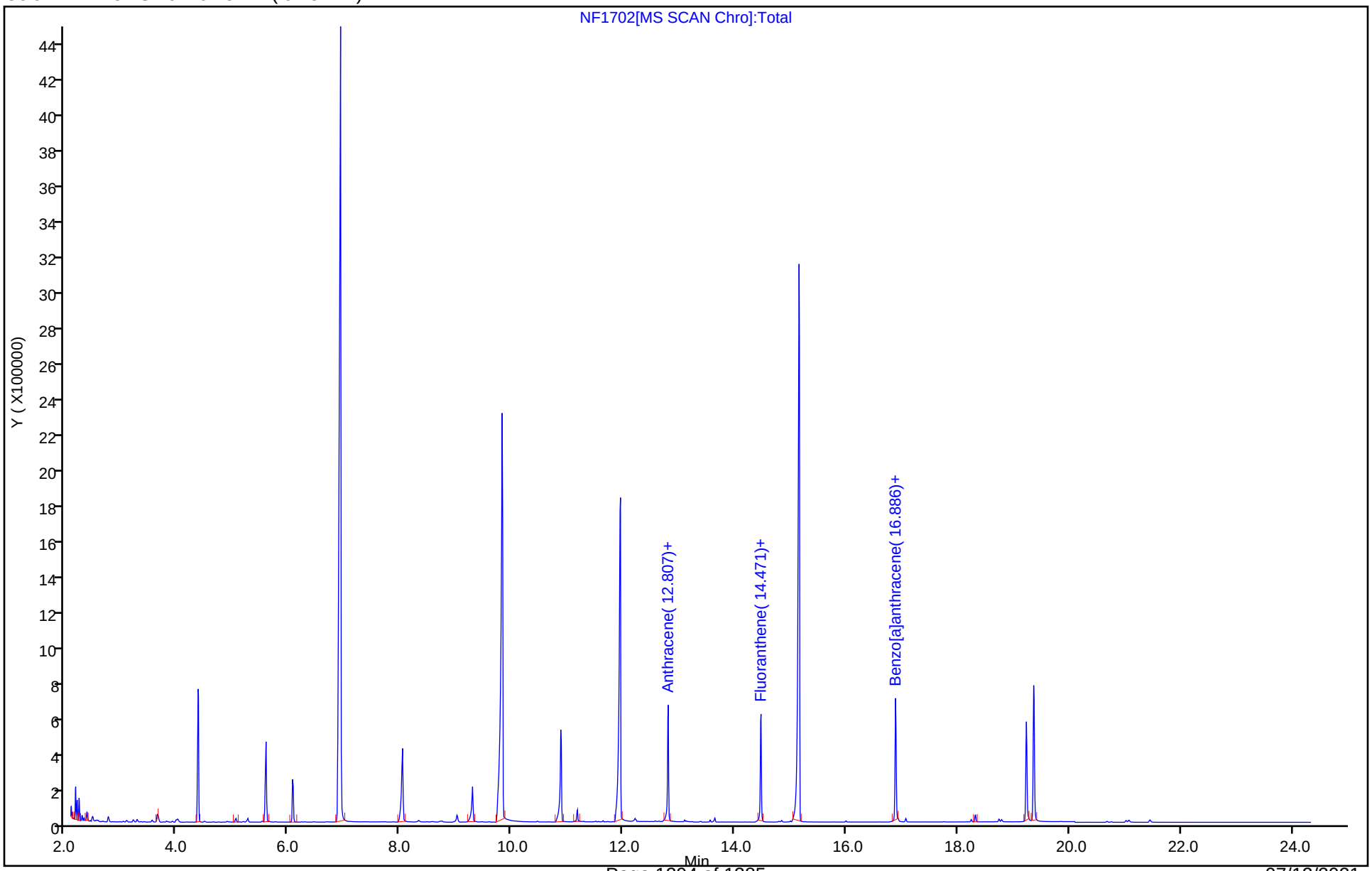
Report Date: 01-Jul-2021 07:04:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date:	30-Jun-2021 20:12:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	MB 410-143664/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

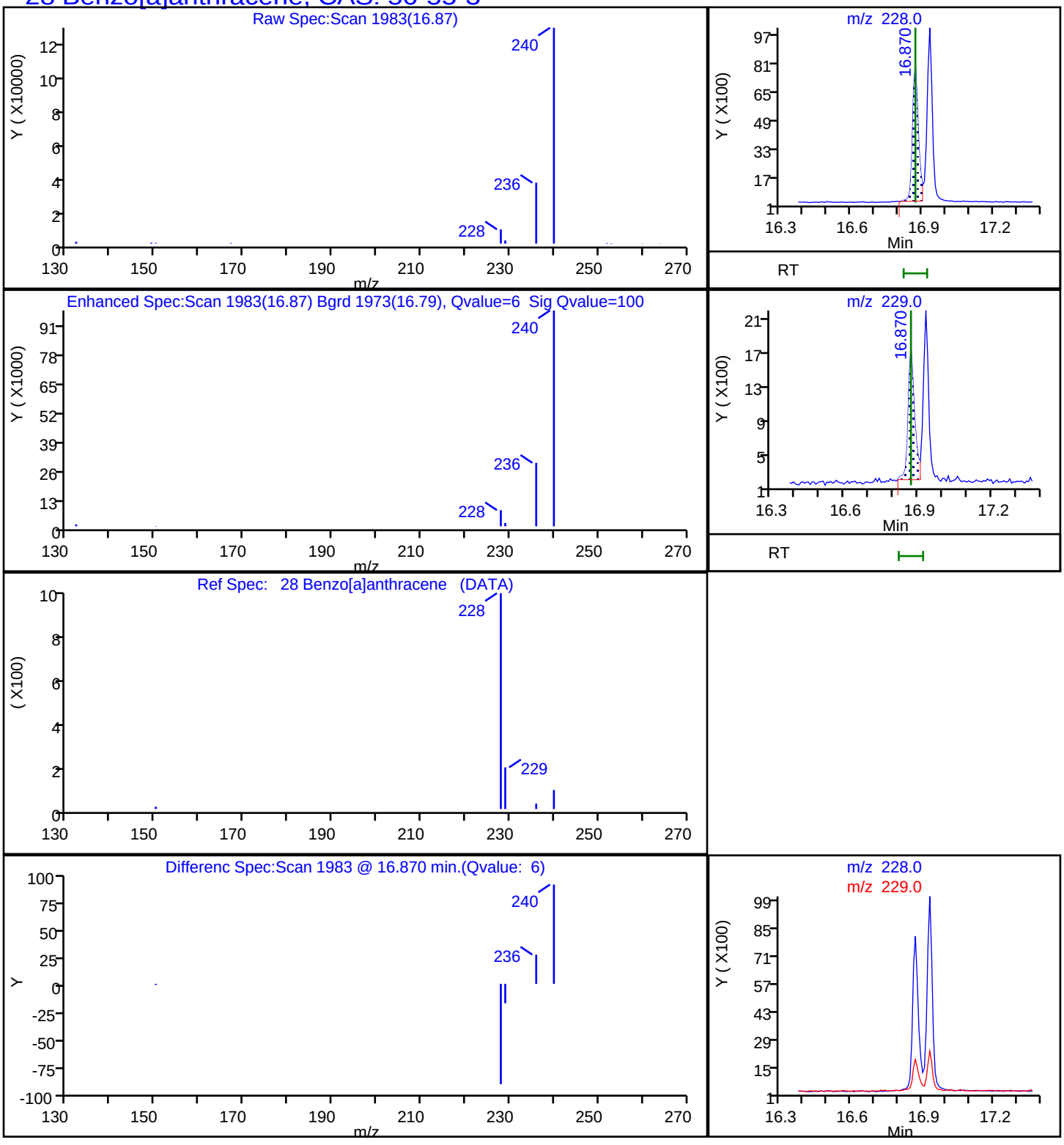
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D
Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263
Lims ID: MB 410-143664/1-A
Client ID:
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

28 Benzo[a]anthracene, CAS: 56-55-3



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

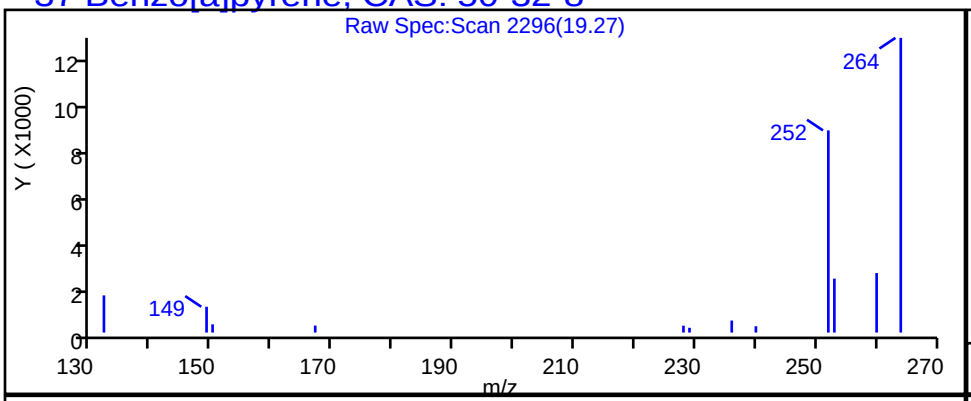
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

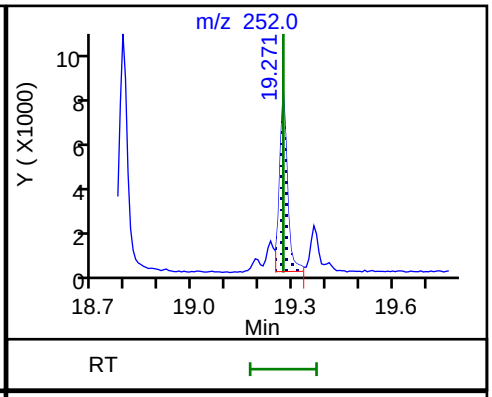
Injection Vol: 1.0 ul Dil. Factor: 1.0000

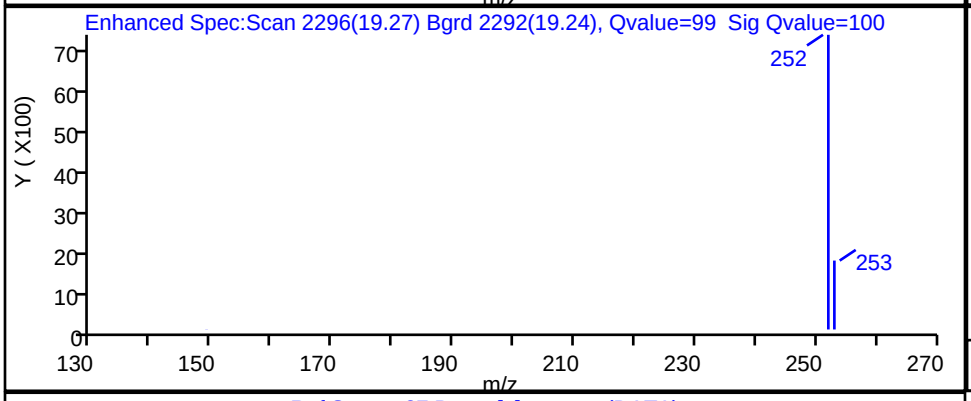
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

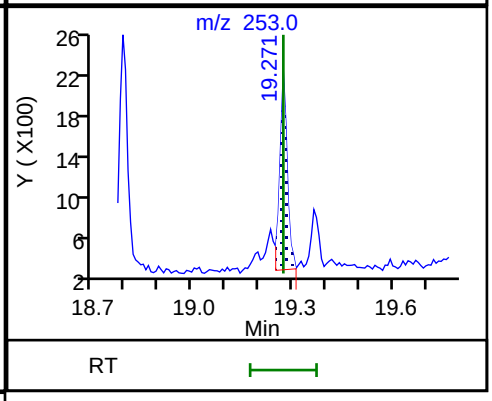
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

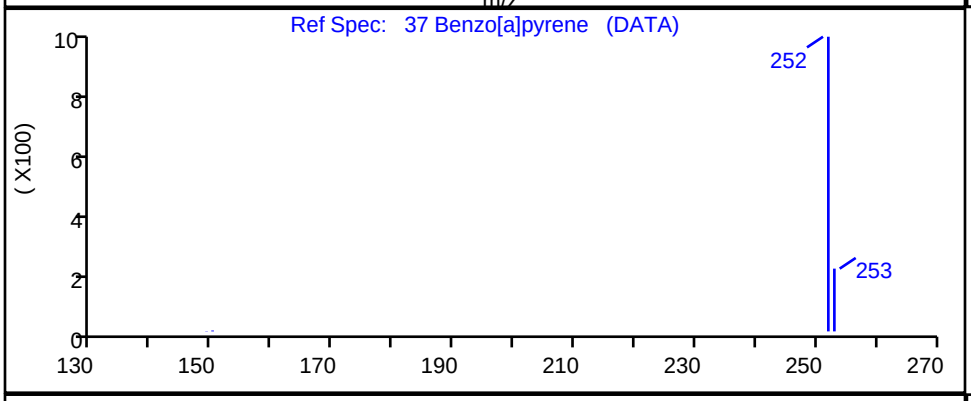
37 Benzo[a]pyrene, CAS: 50-32-8

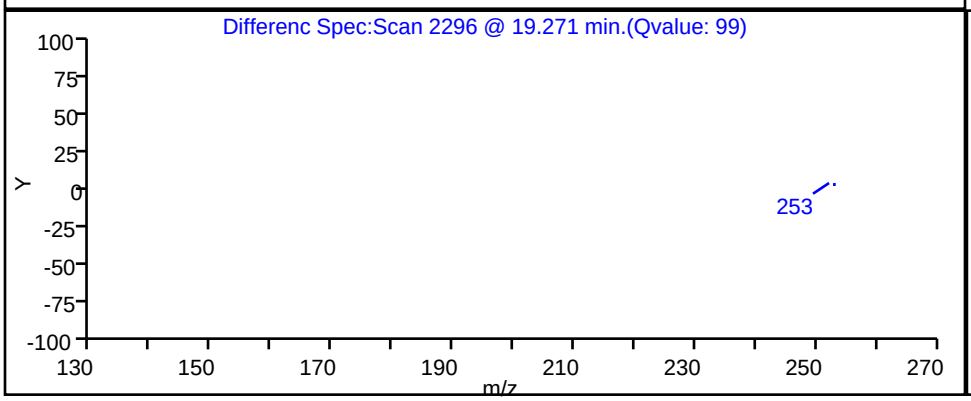


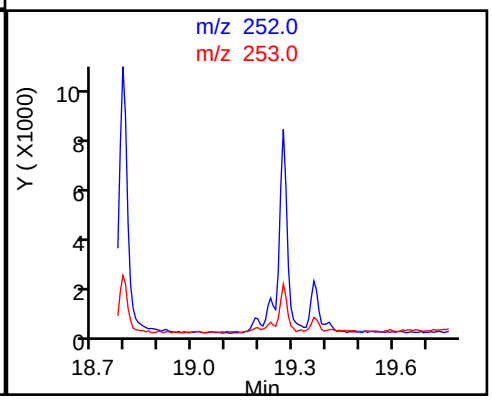












Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

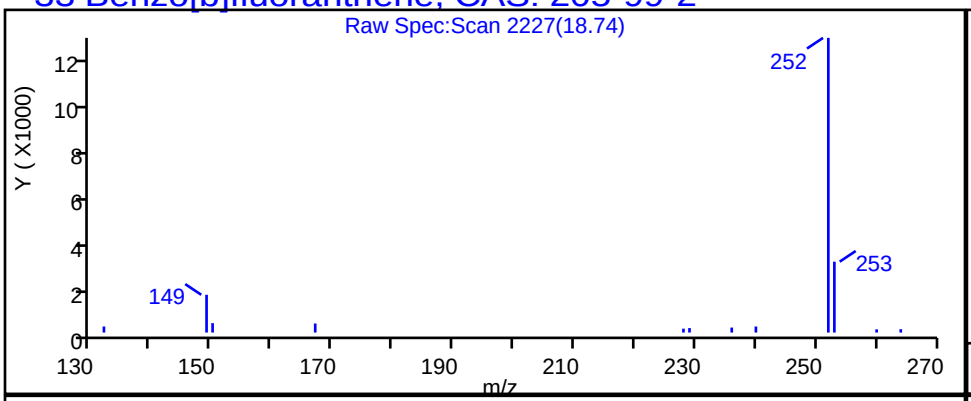
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

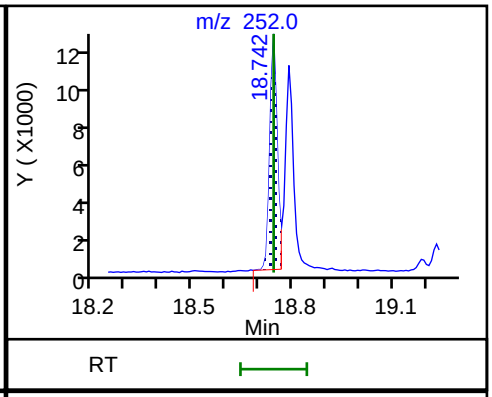
Injection Vol: 1.0 ul Dil. Factor: 1.0000

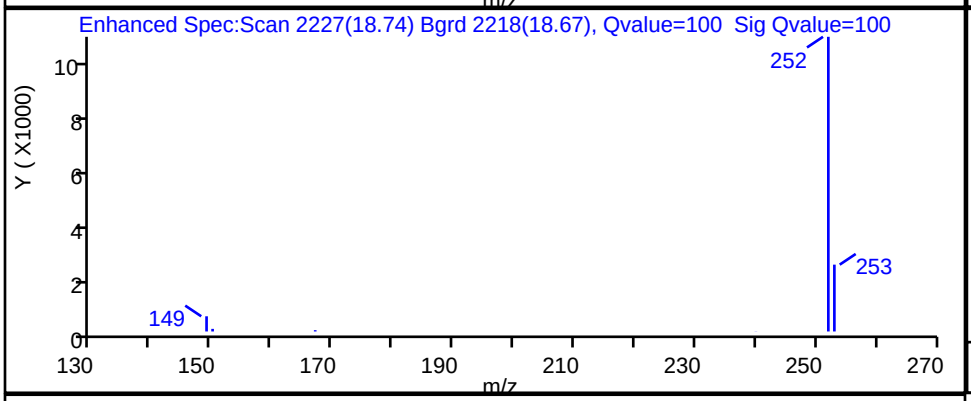
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

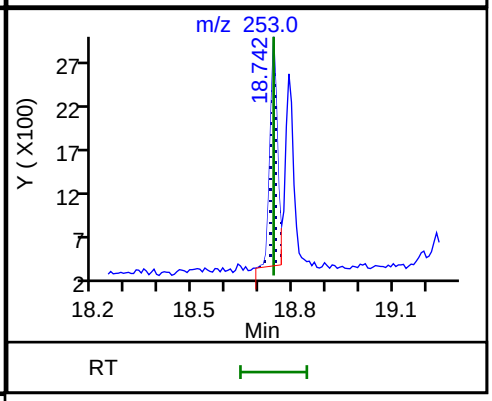
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

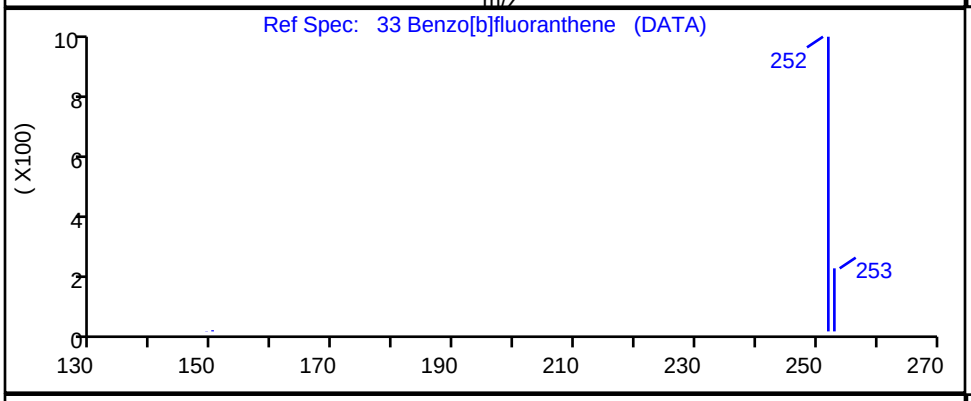
33 Benzo[b]fluoranthene, CAS: 205-99-2

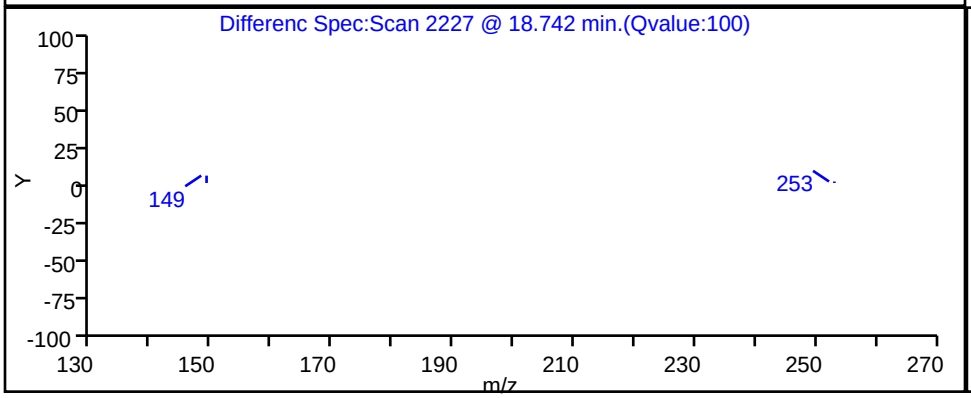


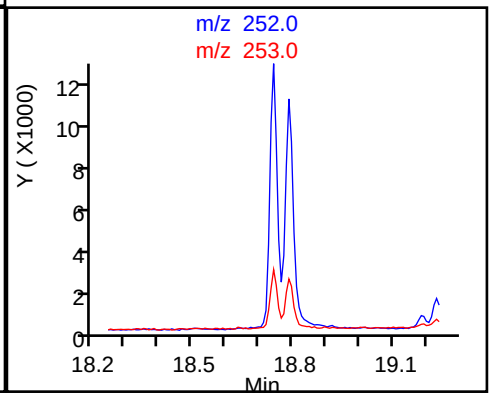












Report Date: 01-Jul-2021 07:04:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

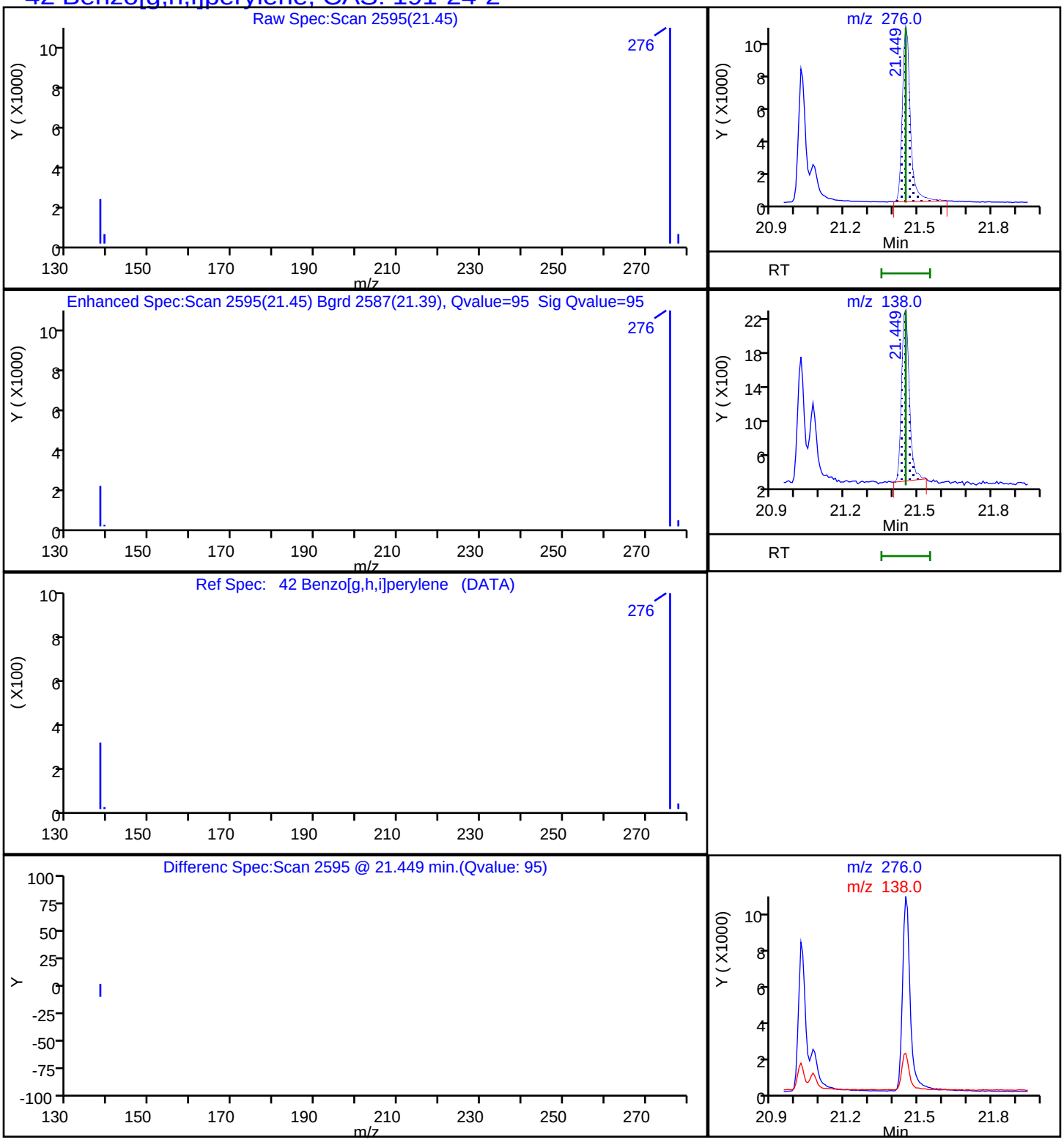
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

42 Benzo[g,h,i]perylene, CAS: 191-24-2



Report Date: 01-Jul-2021 07:04:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

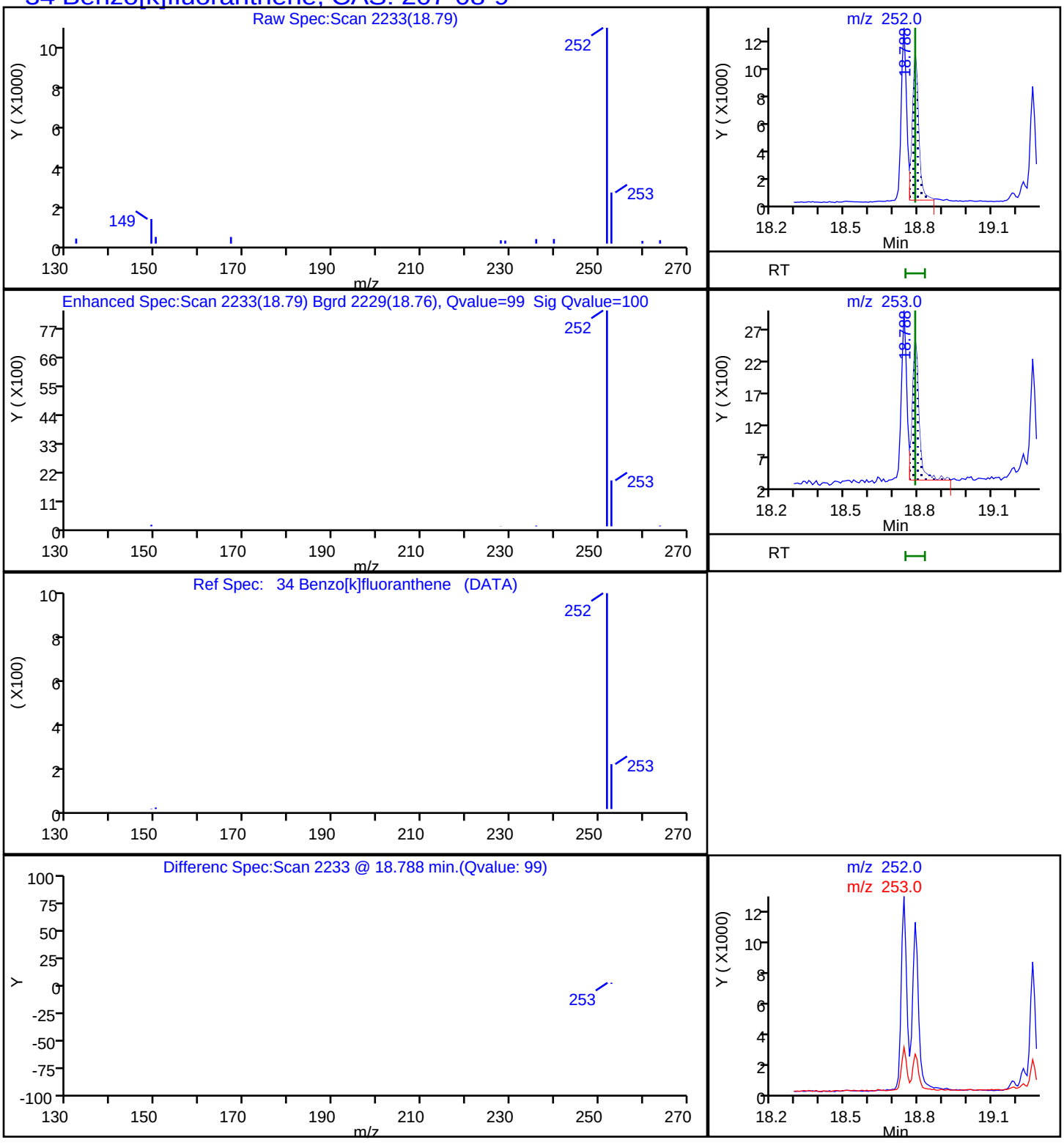
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

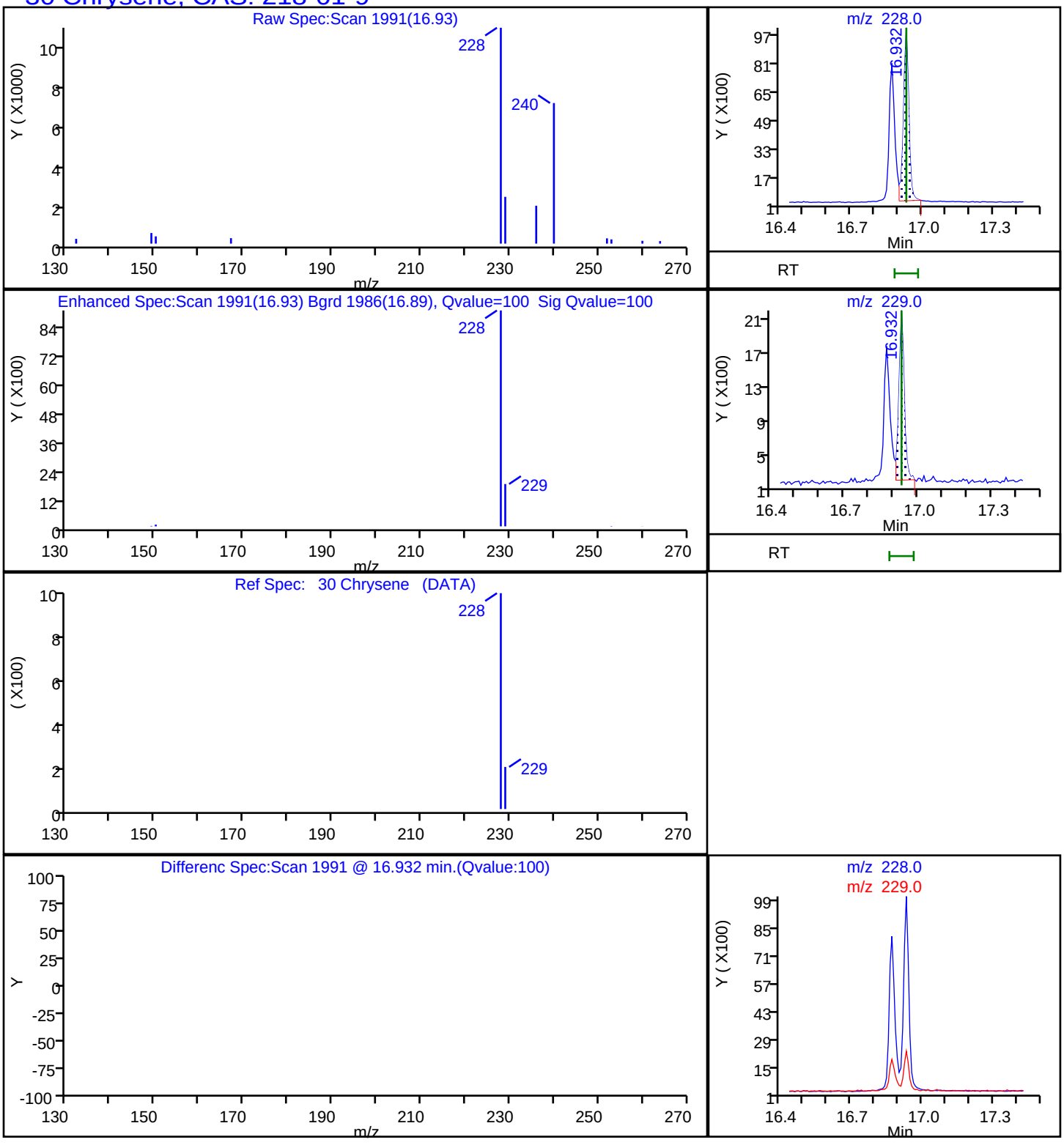
34 Benzo[k]fluoranthene, CAS: 207-08-9



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D
Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263
Lims ID: MB 410-143664/1-A
Client ID:
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

30 Chrysene, CAS: 218-01-9



Report Date: 01-Jul-2021 07:04:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

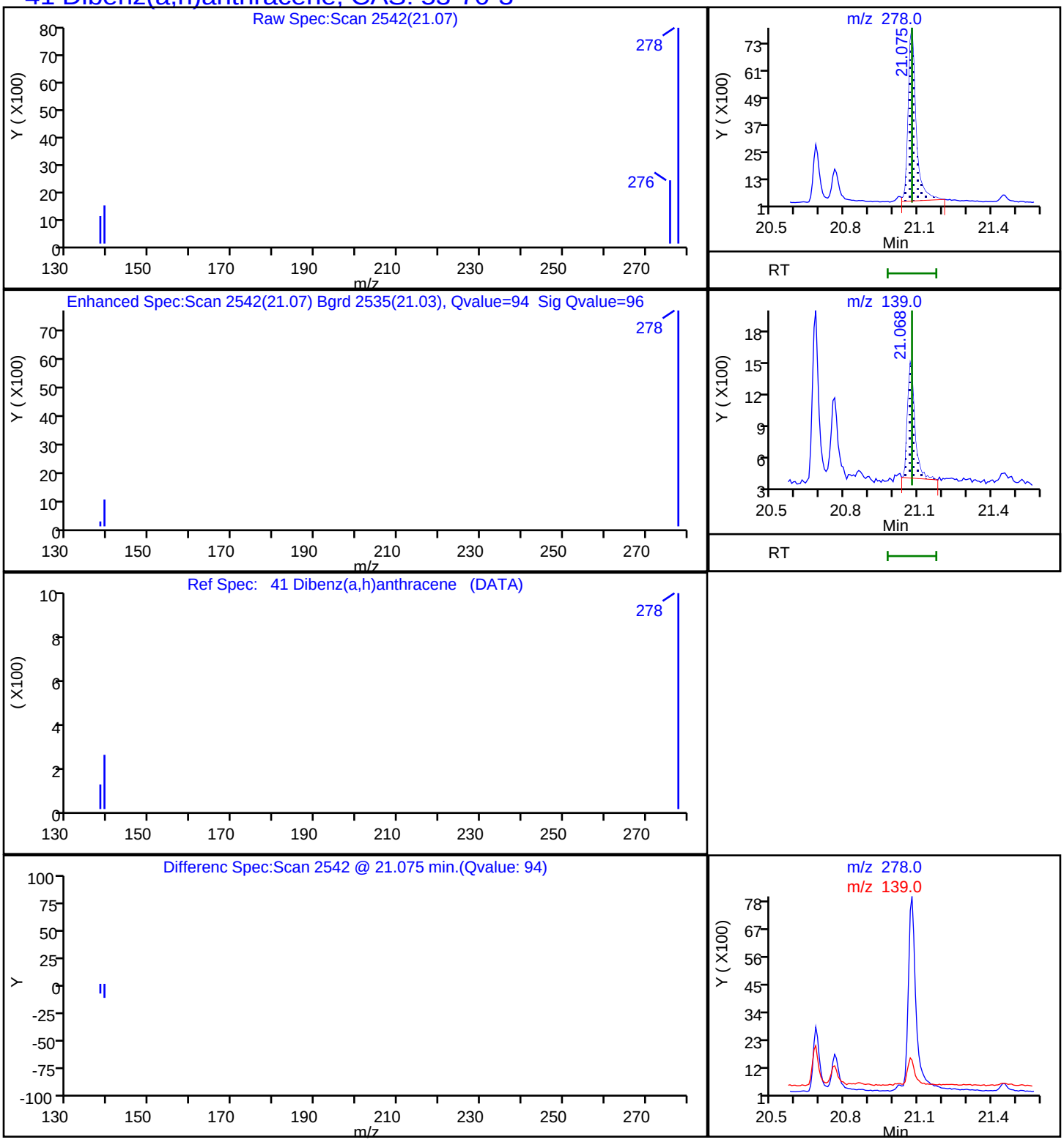
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

41 Dibenz(a,h)anthracene, CAS: 53-70-3



Report Date: 01-Jul-2021 07:04:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

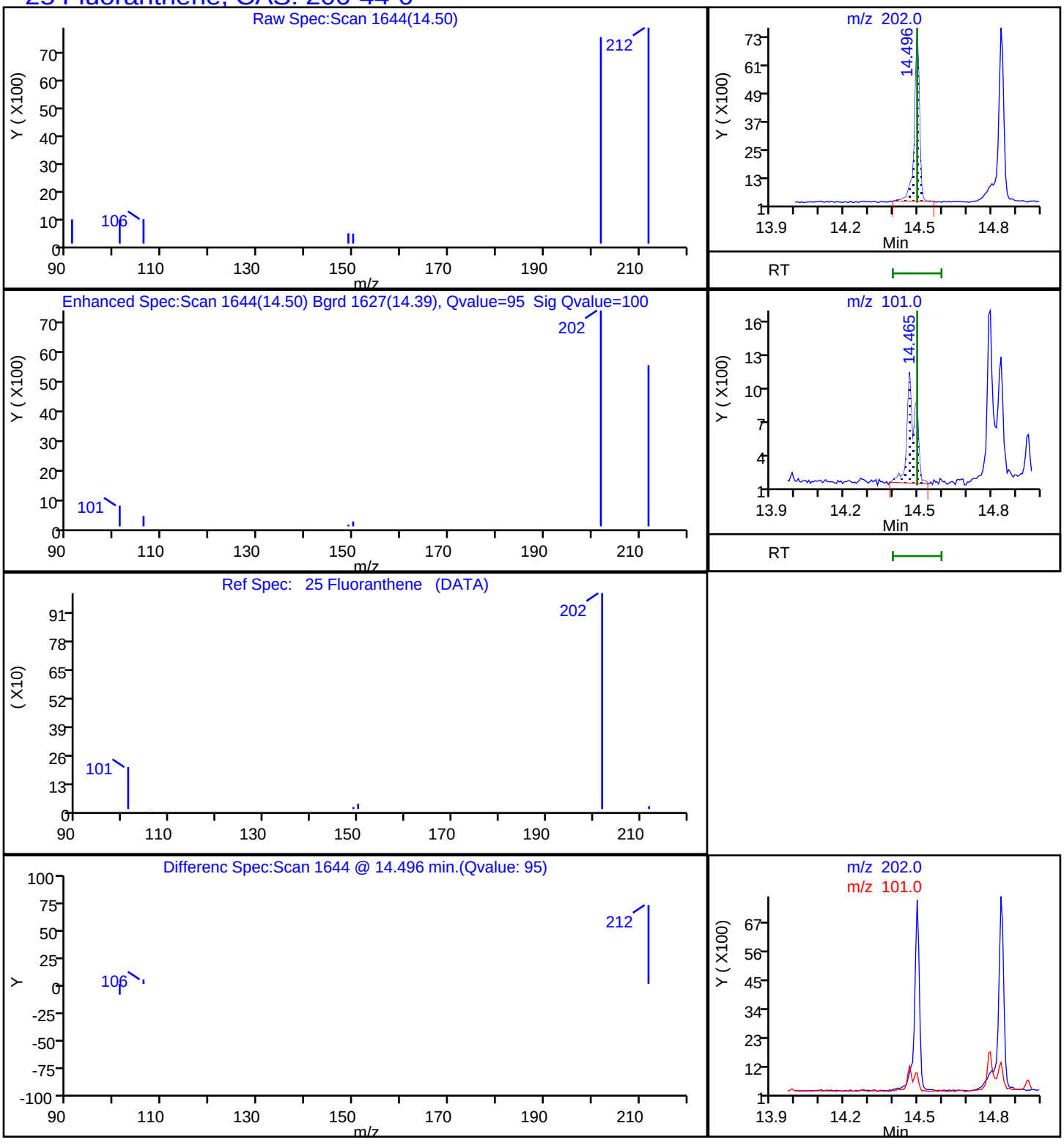
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

25 Fluoranthene, CAS: 206-44-0



Report Date: 01-Jul-2021 07:04:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D

Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263

Lims ID: MB 410-143664/1-A

Client ID:

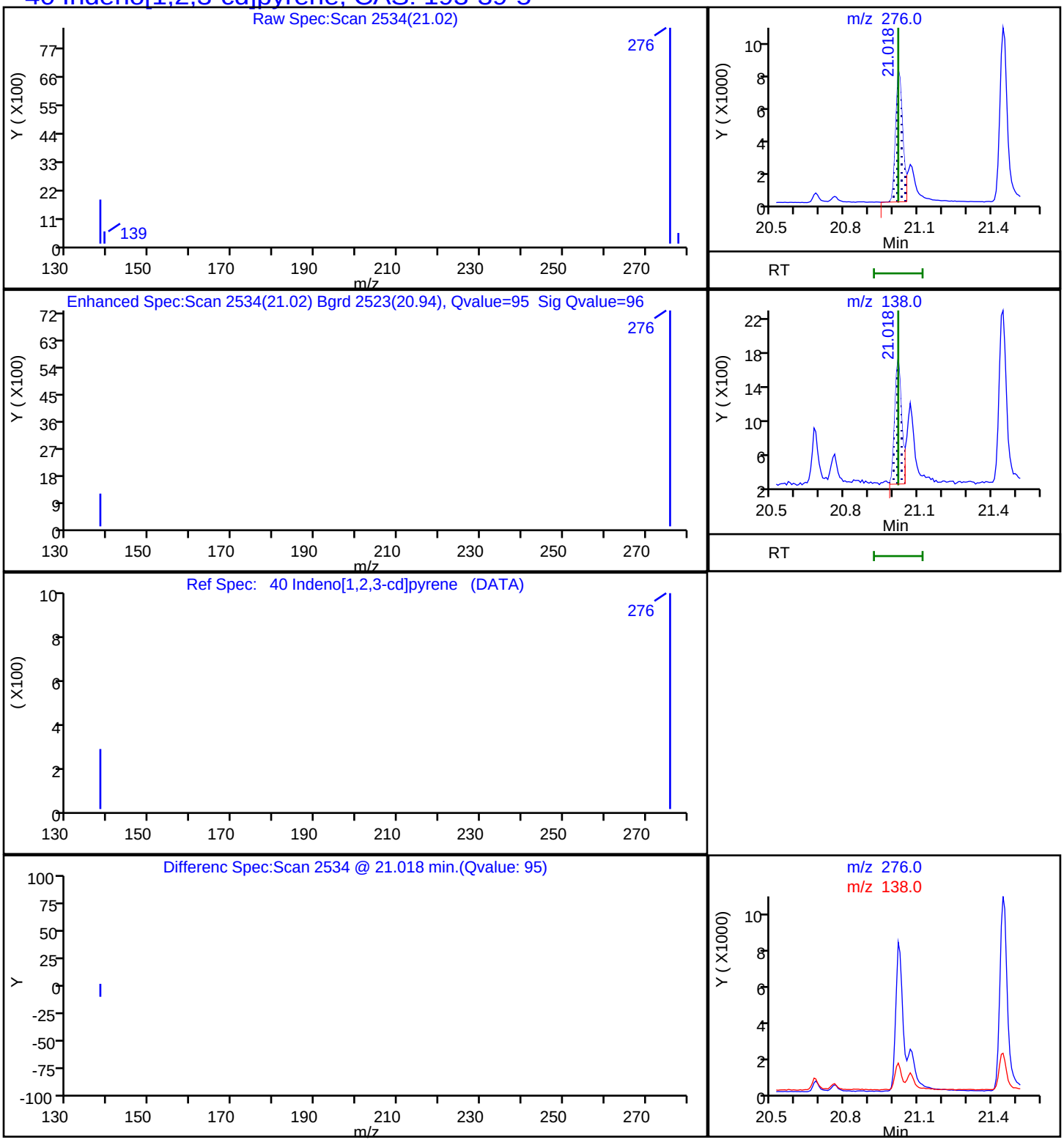
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

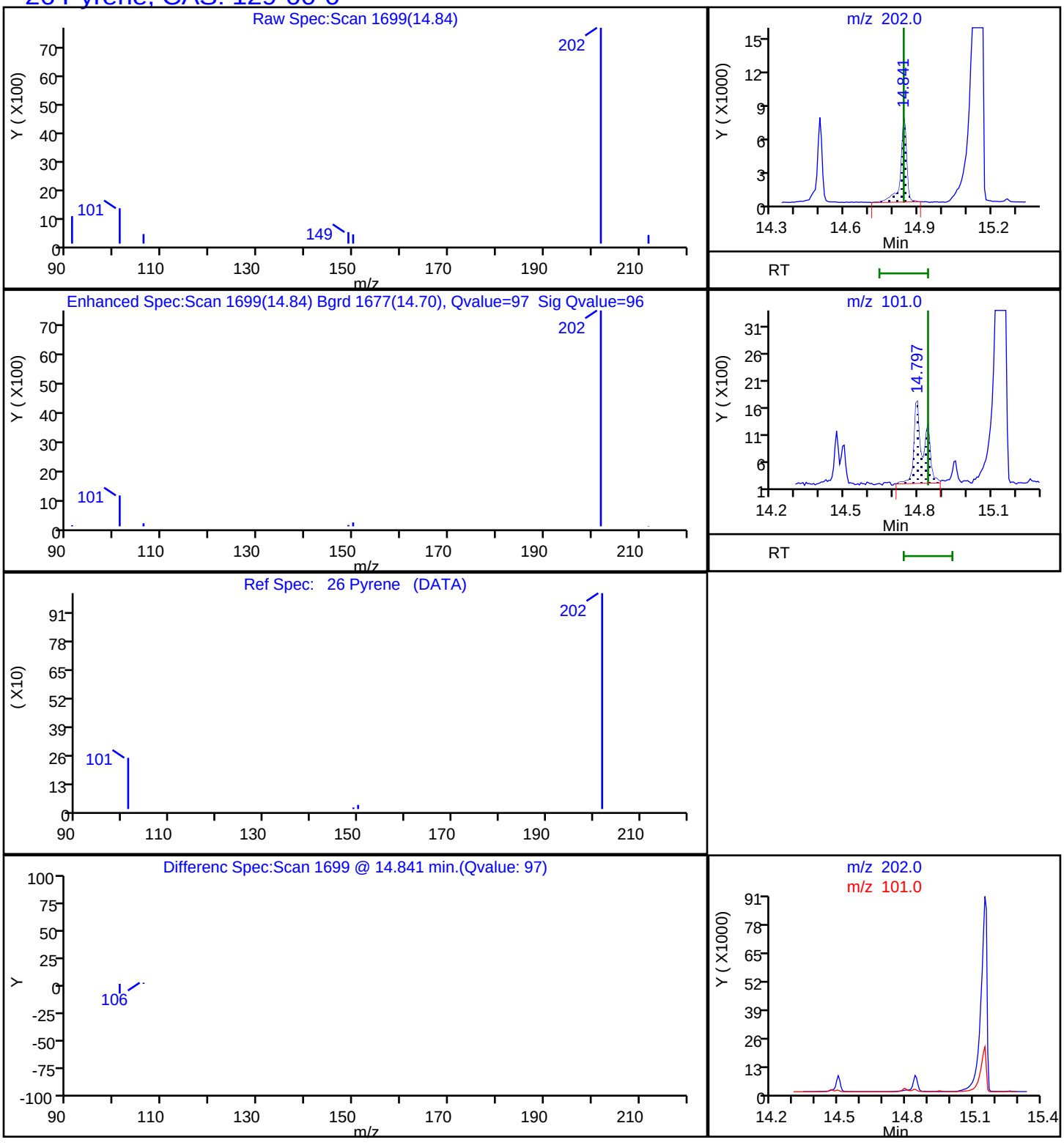
40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1702.D
Injection Date: 30-Jun-2021 20:12:30 Instrument ID: HP23263
Lims ID: MB 410-143664/1-A
Client ID:
Operator ID: art12405 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

26 Pyrene, CAS: 129-00-0



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-143667/1-A

Matrix: Water Lab File ID: MF2202.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 250(mL) Date Analyzed: 06/30/2021 21:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		36-111
93951-69-0	Fluoranthene-d10 (Surr)	89		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2202.D				
Lims ID:	MB 410-143667/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	30-Jun-2021 21:54:52	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-143667/1-A				
Misc. Info.:	410-0033298-003				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	01-Jul-2021 09:45:43	Calib Date:	03-Jun-2021 11:51:27		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1647				
First Level Reviewer: gamblerj		Date:	01-Jul-2021 09:28:58		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.689	6.689	0.000	92	7513	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	92	24120	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	11668	0.2500	0.1861	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	96	15683	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.289	13.289	0.000	95	32516	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	33770	0.2500	0.2220	
* 29 Chrysene-d12	240	17.333	17.325	0.008	55	35534	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.664	19.664	0.008	98	33310	0.2500	0.1903	
* 38 Perylene-d12	264	19.794	19.787	0.007	98	45774	0.2500	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

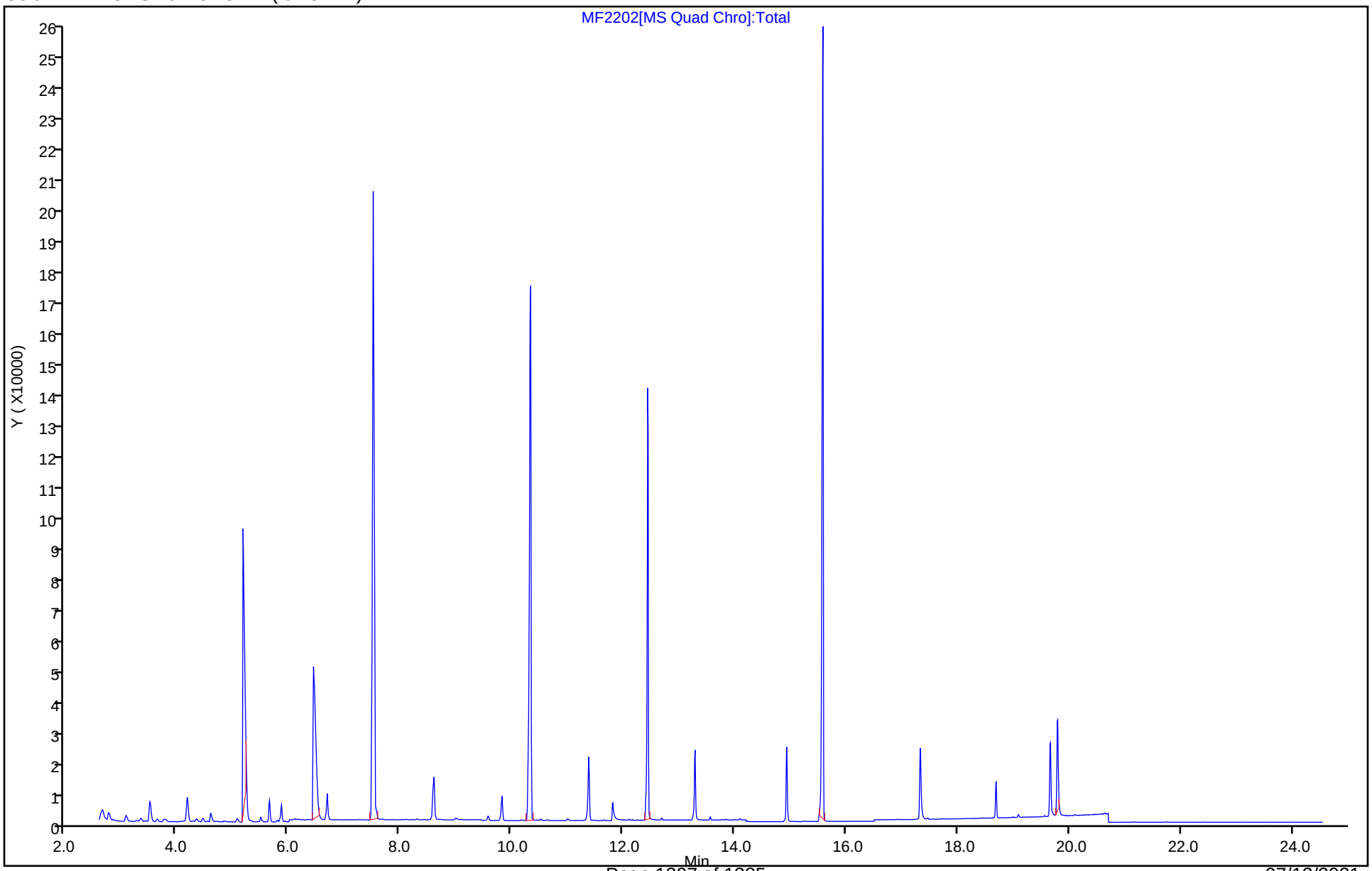
Report Date: 01-Jul-2021 09:47:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2202.D

Injection Date:	30-Jun-2021 21:54:52	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	MB 410-143667/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



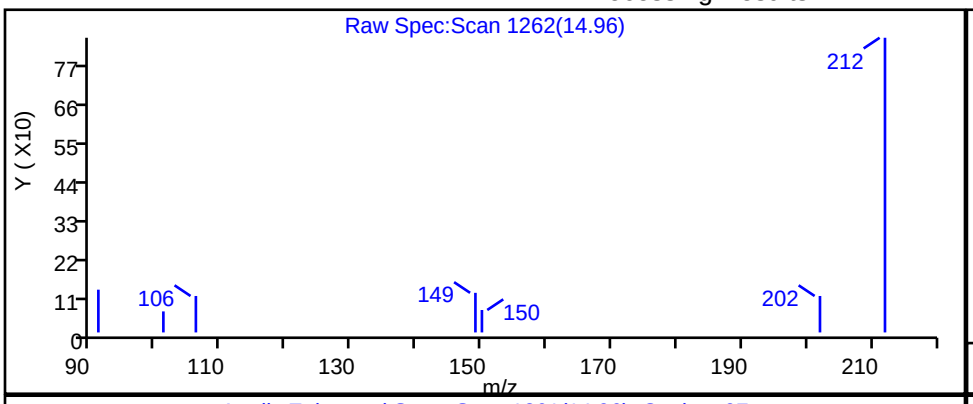
User Disabled Compound Report

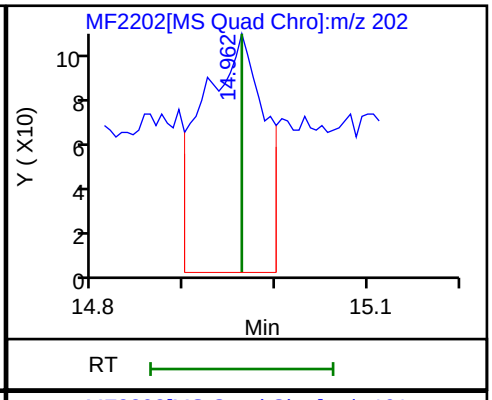
Eurofins Lancaster Laboratories Environment Testing, LLC

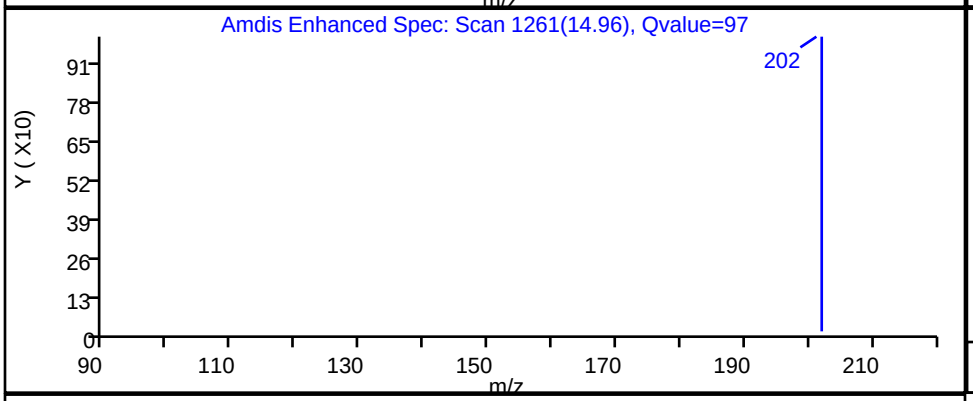
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2202.D				
Injection Date:	30-Jun-2021 21:54:52	Instrument ID:	HP21585		
Lims ID:	MB 410-143667/1-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

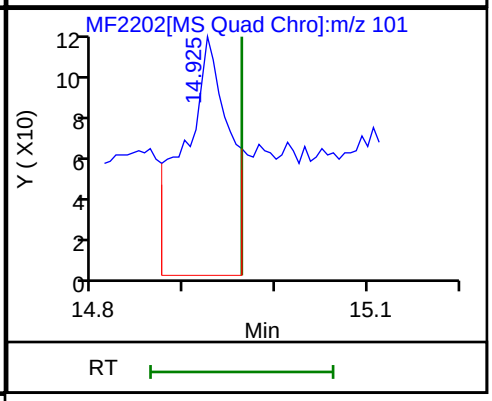
25 Fluoranthene, CAS: 206-44-0

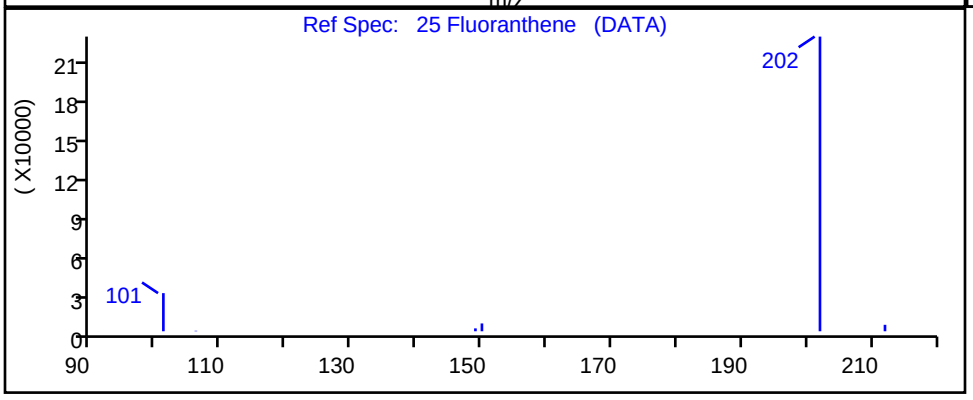
Processing Results











RT	Mass	Response	Amount
14.96	202.00	478	0.002633
14.92	101.00	381	

Reviewer: gamblerj, 01-Jul-2021 09:28:52

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-143956/1-A

Matrix: Water Lab File ID: NG0004.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 250(mL) Date Analyzed: 07/01/2021 10:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		36-111
93951-69-0	Fluoranthene-d10 (Surr)	73		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0004.D
Lims ID: MB 410-143956/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Jul-2021 10:08:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-143956/1-A
Misc. Info.: 410-0033354-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 17:31:12 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 15:40:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	99	213437	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.040	8.040	0.000	100	774631	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.296	9.301	0.000	99	281540	0.2500	0.1706	
* 13 Acenaphthene-d10	164	10.878	10.888	-0.010	89	419684	0.2500	0.2500	
* 20 Phenanthrene-d10	188	12.807	12.807	0.000	100	819002	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.471	14.477	0.000	97	619147	0.2500	0.1837	
* 29 Chrysene-d12	240	16.886	16.894	-0.008	82	749115	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.233	19.239	-0.008	98	569185	0.2500	0.1892	
* 38 Perylene-d12	264	19.371	19.379	-0.008	95	815011	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

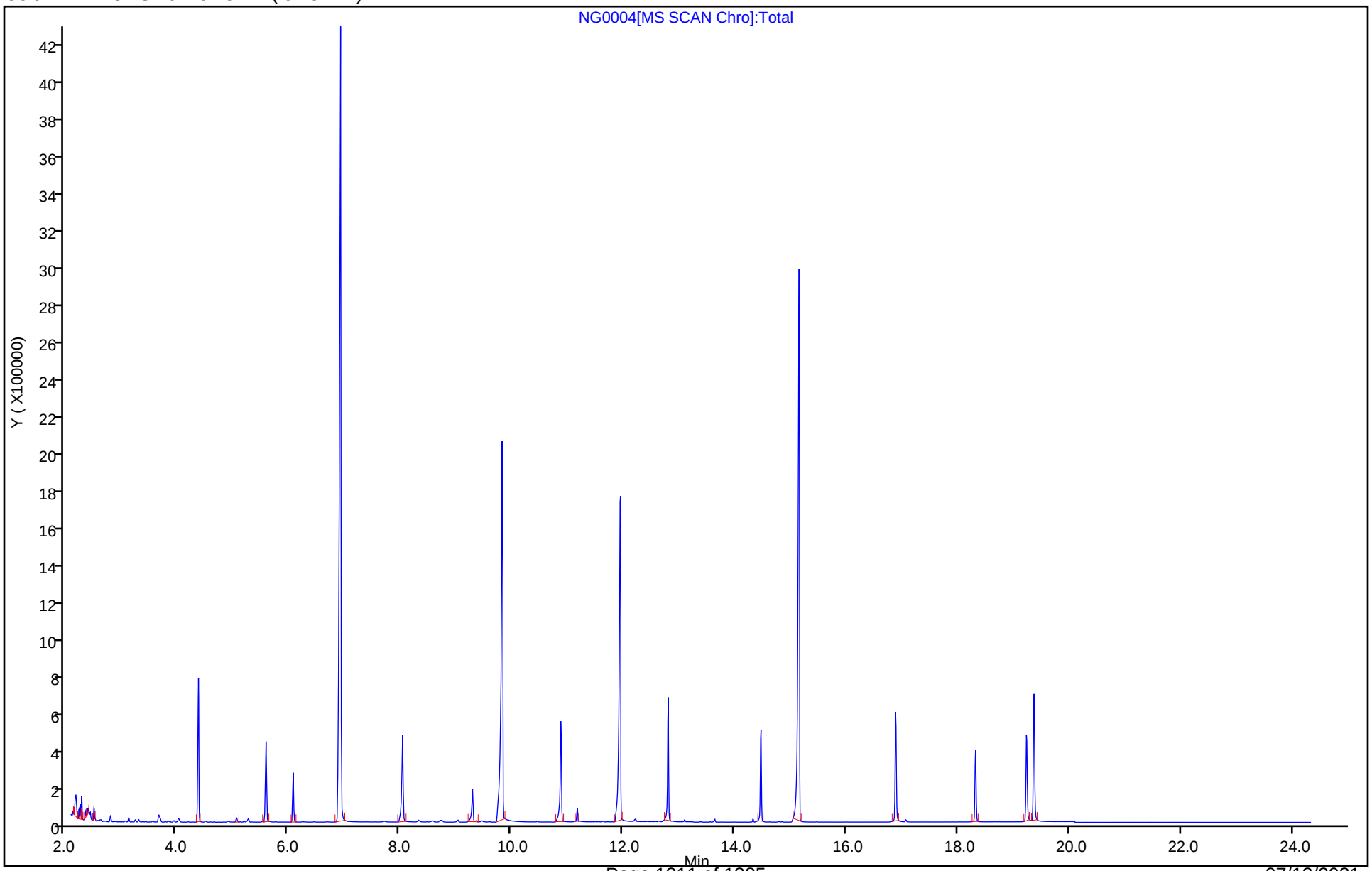
Report Date: 01-Jul-2021 17:31:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0004.D

Injection Date:	01-Jul-2021 10:08:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-143956/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-143961/1-A

Matrix: Water Lab File ID: NG0002.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 250(mL) Date Analyzed: 07/01/2021 09:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*		*0.050*	*0.010*
208-96-8	*Acenaphthylene*	*ND*		*0.050*	*0.010*
120-12-7	*Anthracene*	*ND*		*0.050*	*0.010*
56-55-3	*Benzo[a]anthracene*	*ND*		*0.050*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*		*0.050*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*		*0.050*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*ND*		*0.050*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*		*0.050*	*0.010*
218-01-9	*Chrysene*	*ND*		*0.050*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*		*0.050*	*0.020*
206-44-0	*Fluoranthene*	*ND*		*0.050*	*0.010*
86-73-7	*Fluorene*	*ND*		*0.050*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*		*0.050*	*0.020*
91-20-3	*Naphthalene*	*ND*		*0.070*	*0.030*
85-01-8	*Phenanthrene*	*ND*		*0.070*	*0.030*
129-00-0	*Pyrene*	*ND*		*0.050*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	84		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	67		36-111
93951-69-0	Fluoranthene-d10 (Surr)	88		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0002.D
Lims ID: MB 410-143961/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Jul-2021 09:08:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-143961/1-A
Misc. Info.: 410-0033354-003
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 17:31:12 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 15:39:37

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.670	2.652	0.018	83	2786		0.008081	7M
*	4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	98	211131	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.040	8.040	0.000	100	761484	0.2500	0.2500	
$	9 1-Methylnaphthalene-d10	152	9.296	9.301	0.000	99	272466	0.2500	0.1680	
*	13 Acenaphthene-d10	164	10.888	10.888	0.000	100	406610	0.2500	0.2500	
*	20 Phenanthrene-d10	188	12.807	12.807	0.000	100	793781	0.2500	0.2500	
$	24 Fluoranthene-d10 (Surr)	212	14.471	14.477	0.000	97	720104	0.2500	0.2204	
*	29 Chrysene-d12	240	16.894	16.894	0.000	81	719137	0.2500	0.2500	
$	36 Benzo(a)pyrene-d12 (Surr)	264	19.240	19.239	-0.001	96	608206	0.2500	0.2100	
*	38 Perylene-d12	264	19.371	19.379	-0.008	95	784815	0.2500	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

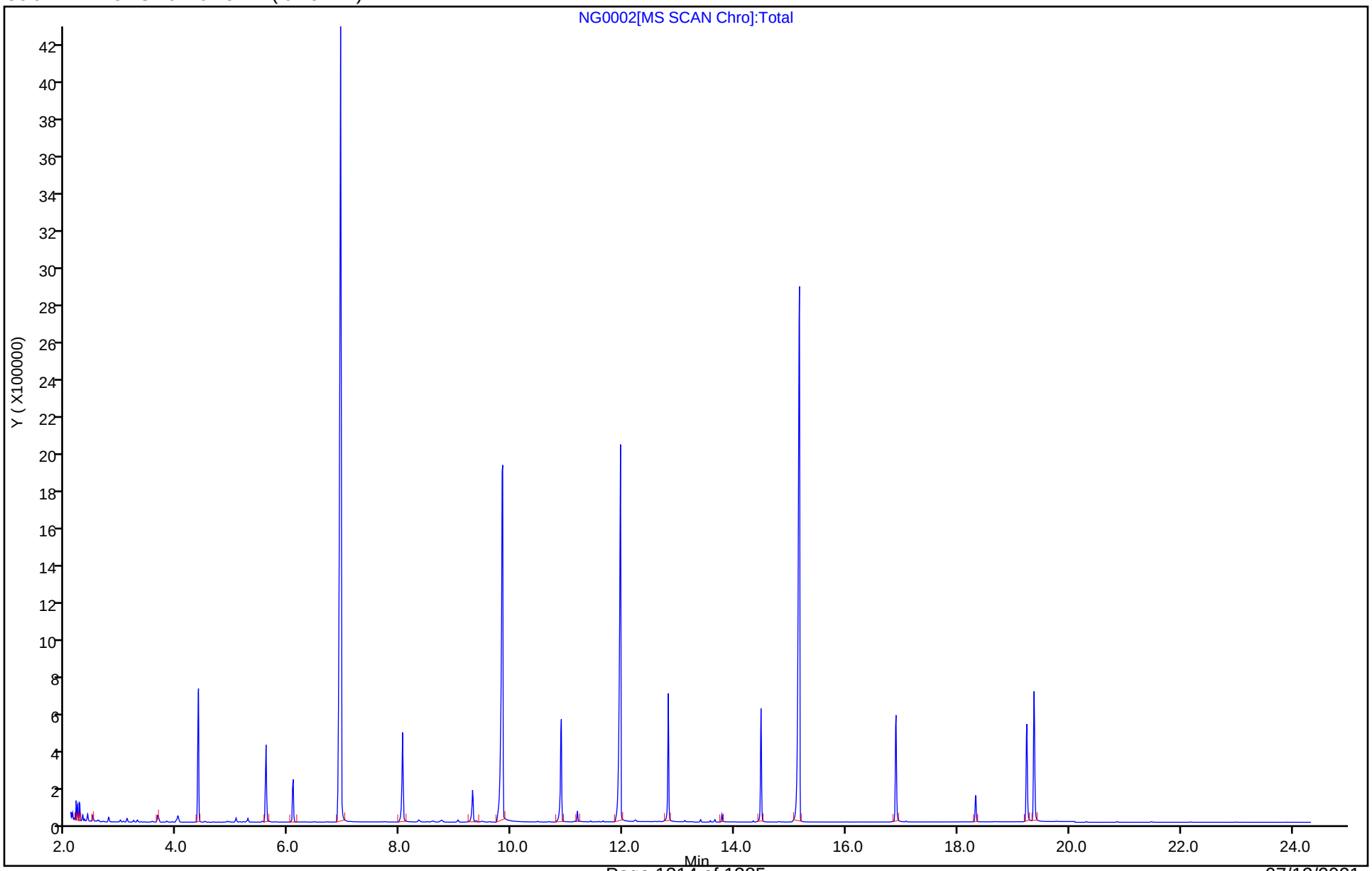
Report Date: 01-Jul-2021 17:31:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0002.D

Injection Date:	01-Jul-2021 09:08:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-143961/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



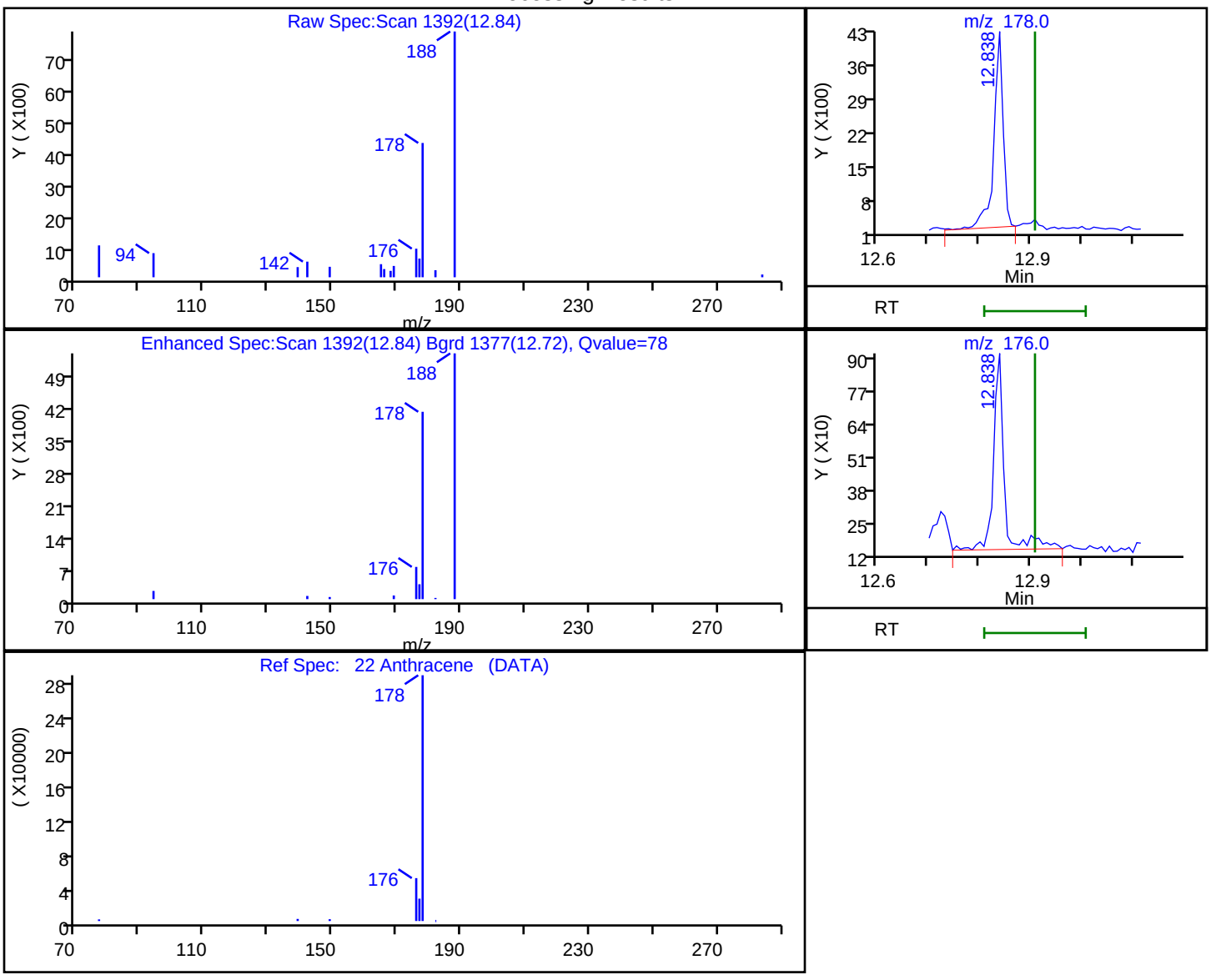
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0002.D				
Injection Date:	01-Jul-2021 09:08:30	Instrument ID:	HP23263		
Lims ID:	MB 410-143961/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
12.84	178.00	5174	0.001637
12.84	176.00	1146	

Reviewer: transuea, 01-Jul-2021 15:39:19

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

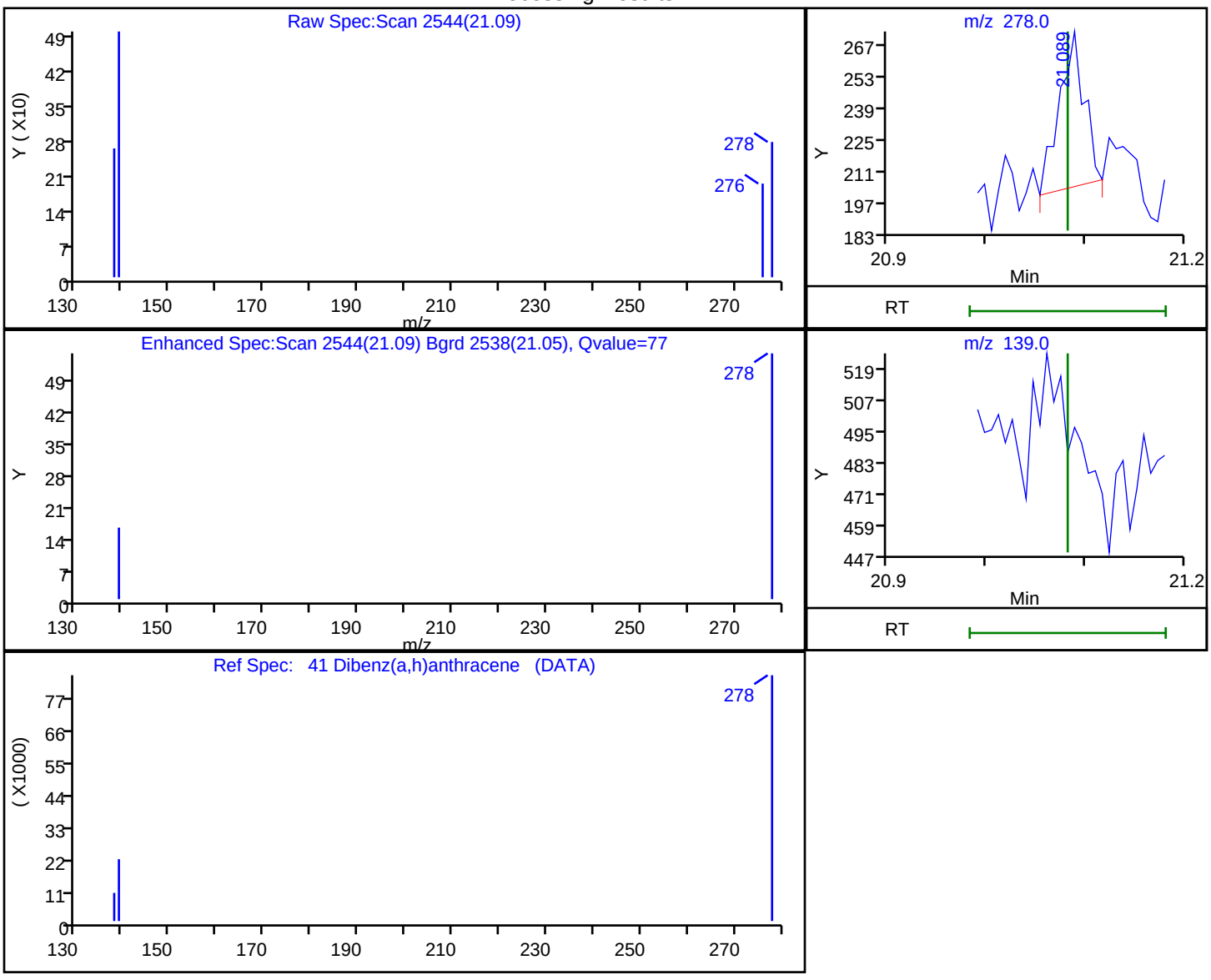
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0002.D				
Injection Date:	01-Jul-2021 09:08:30	Instrument ID:	HP23263		
Lims ID:	MB 410-143961/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.09	278.00	122	0.006702
21.08	139.00	0	

Reviewer: transuea, 01-Jul-2021 15:39:28

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-144459/1-A

Matrix: Water Lab File ID: NG0262.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 250(mL) Date Analyzed: 07/05/2021 09:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145058 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	80		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	72		36-111
93951-69-0	Fluoranthene-d10 (Surr)	80		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0262.D
Lims ID: MB 410-144459/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Jul-2021 09:18:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-144459/1-A
Misc. Info.: 410-0033536-003
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 04:48:49 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: gamblerj Date: 06-Jul-2021 04:40:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.065	6.053	0.012	97	190474	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.028	8.028	0.000	100	671754	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.286	9.276	0.010	98	256140	0.2500	0.1790	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	94	375467	0.2500	0.2500	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	723978	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.452	14.452	0.000	97	596848	0.2500	0.2003	
* 29 Chrysene-d12	240	16.863	16.863	0.000	82	735951	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.210	19.217	-0.007	97	609811	0.2500	0.2001	
* 38 Perylene-d12	264	19.348	19.348	0.000	94	825764	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

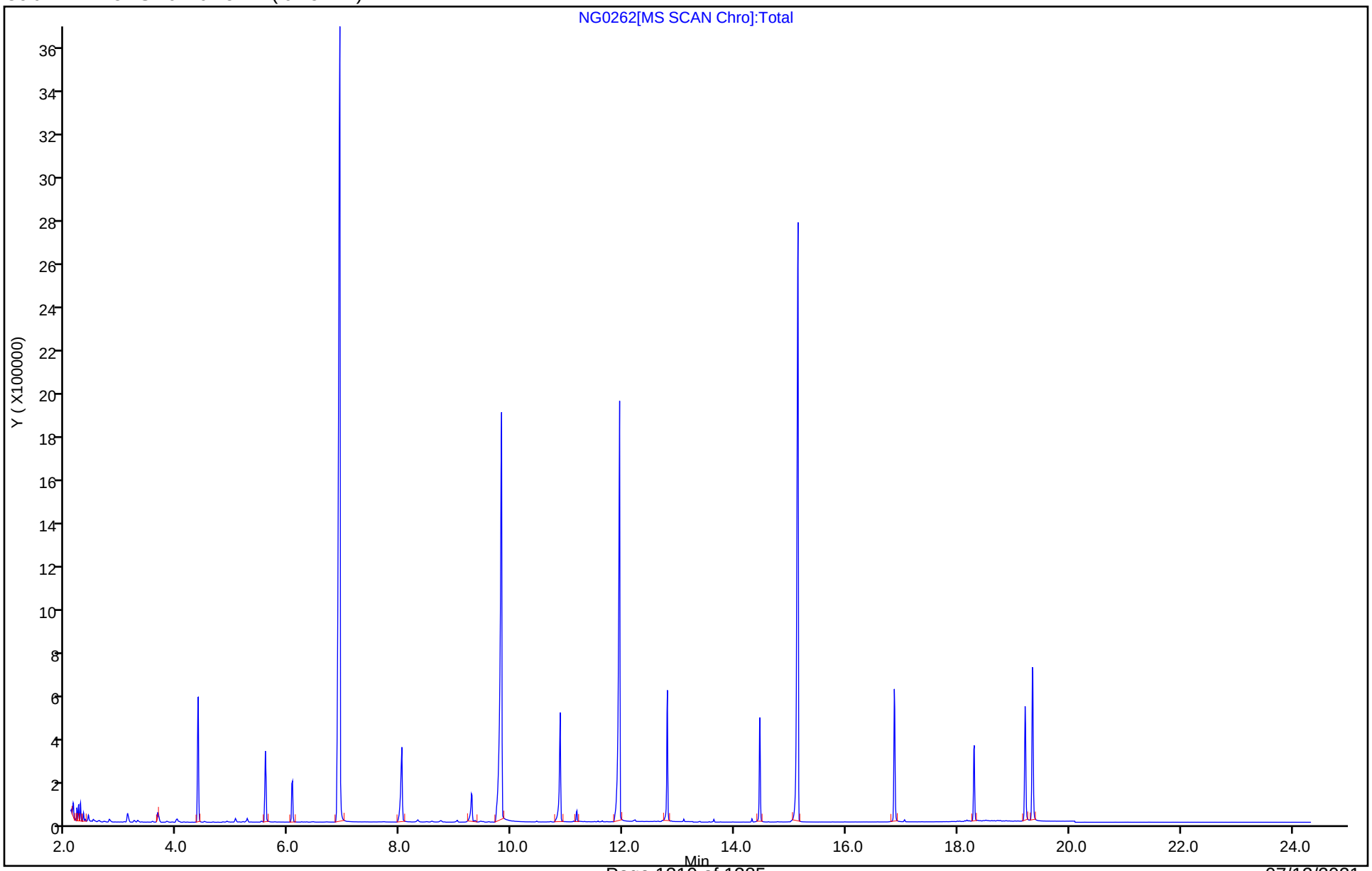
Report Date: 06-Jul-2021 04:50:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0262.D

Injection Date:	05-Jul-2021 09:18:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-144459/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



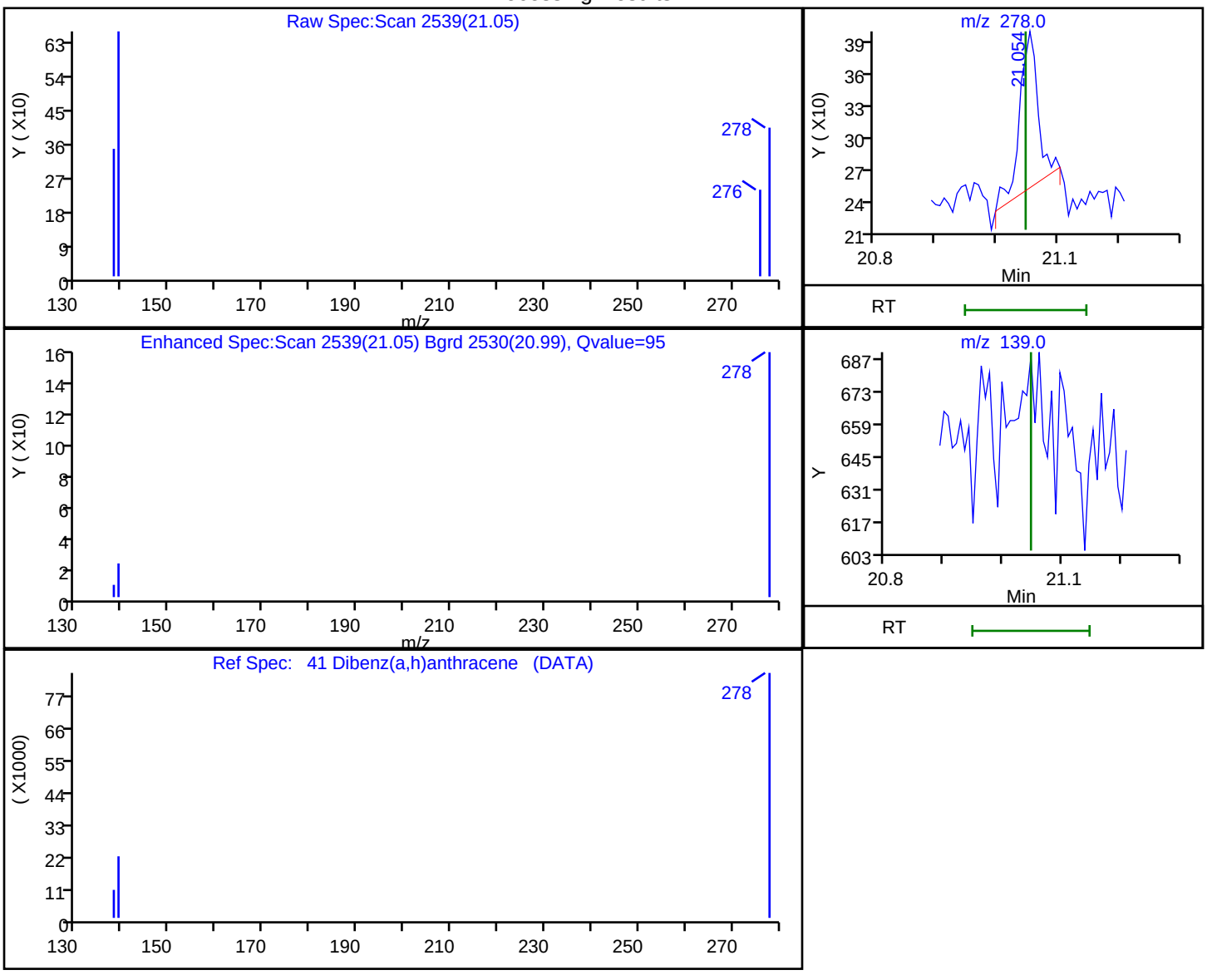
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0262.D				
Injection Date:	05-Jul-2021 09:18:30	Instrument ID:	HP23263		
Lims ID:	MB 410-144459/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
21.05	278.00	297	0.006753
21.05	139.00	0	

Reviewer: gamblerj, 06-Jul-2021 04:40:18

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-143125/2-A

Matrix: Water Lab File ID: MF2102.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/29/2021 09:35

Sample wt/vol: 250(mL) Date Analyzed: 06/29/2021 20:19

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143507 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.802		0.050	0.010
208-96-8	Acenaphthylene	0.826		0.050	0.010
120-12-7	Anthracene	0.938		0.050	0.010
56-55-3	Benzo[a]anthracene	0.895		0.050	0.010
50-32-8	Benzo[a]pyrene	0.954		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.962		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.897		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.900		0.050	0.010
218-01-9	Chrysene	0.878		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.939		0.050	0.020
206-44-0	Fluoranthene	0.917		0.050	0.010
86-73-7	Fluorene	0.851		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.03		0.050	0.020
91-20-3	Naphthalene	0.650		0.070	0.030
85-01-8	Phenanthrene	0.887		0.070	0.030
129-00-0	Pyrene	0.868		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	83		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	65		36-111
93951-69-0	Fluoranthene-d10 (Surr)	90		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2102.D
Lims ID: LCS 410-143125/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Jun-2021 20:19:25 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-143125/2-A
Misc. Info.: 410-0033197-004
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 16:41:28 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 16:25:28

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.984	2.925	0.059	83	3913	0.2500	0.1798	M
*	4 1,4-Dichlorobenzene-d4	152	6.705	6.726	-0.021	96	8399	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.622	8.622	0.000	94	27507	0.2500	0.2500	
	6 Naphthalene	128	8.642	8.642	-0.022	91	18330	0.2500	0.1626	M
$	9 1-Methylnaphthalene-d10	152	9.846	9.846	0.000	100	11583	0.2500	0.1620	
	12 Acenaphthylene	152	11.178	11.191	-0.013	100	25528	0.2500	0.2065	
*	13 Acenaphthene-d10	164	11.399	11.399	0.000	96	18250	0.2500	0.2500	
	14 Acenaphthene	154	11.447	11.447	-0.001	92	16016	0.2500	0.2006	M
	17 Fluorene	166	12.142	12.150	-0.008	98	21807	0.2500	0.2128	
*	20 Phenanthrene-d10	188	13.305	13.305	0.000	96	38320	0.2500	0.2500	
	21 Phenanthrene	178	13.336	13.336	-0.001	100	36127	0.2500	0.2217	
	22 Anthracene	178	13.399	13.406	-0.008	100	35305	0.2500	0.2346	
$	24 Fluoranthene-d10 (Surr)	212	14.950	14.955	-0.011	97	40415	0.2500	0.2254	
	25 Fluoranthene	202	14.981	15.024	-0.006	99	49048	0.2500	0.2293	
	26 Pyrene	202	15.326	15.356	-0.005	97	48383	0.2500	0.2171	
	28 Benzo[a]anthracene	228	17.333	17.355	0.001	100	52257	0.2500	0.2238	
*	29 Chrysene-d12	240	17.348	17.347	0.001	67	45017	0.2500	0.2500	
	30 Chrysene	228	17.394	17.402	-0.007	100	54035	0.2500	0.2195	
	33 Benzo[b]fluoranthene	252	19.189	19.195	-0.007	100	58052	0.2500	0.2406	
	34 Benzo[k]fluoranthene	252	19.243	19.243	0.001	100	58851	0.2500	0.2249	
$	36 Benzo(a)pyrene-d12 (Surr)	264	19.687	19.687	0.001	98	41260	0.2500	0.2082	
	37 Benzo[a]pyrene	252	19.726	19.748	0.001	100	55599	0.2500	0.2385	
*	38 Perylene-d12	264	19.818	19.817	0.001	98	51828	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	21.470	21.478	-0.006	98	56134	0.2500	0.2564	M
	41 Dibenz(a,h)anthracene	278	21.506	21.513	-0.006	96	57742	0.2500	0.2347	
	42 Benzo[g,h,i]perylene	276	21.901	21.908	-0.006	95	58244	0.2500	0.2242	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

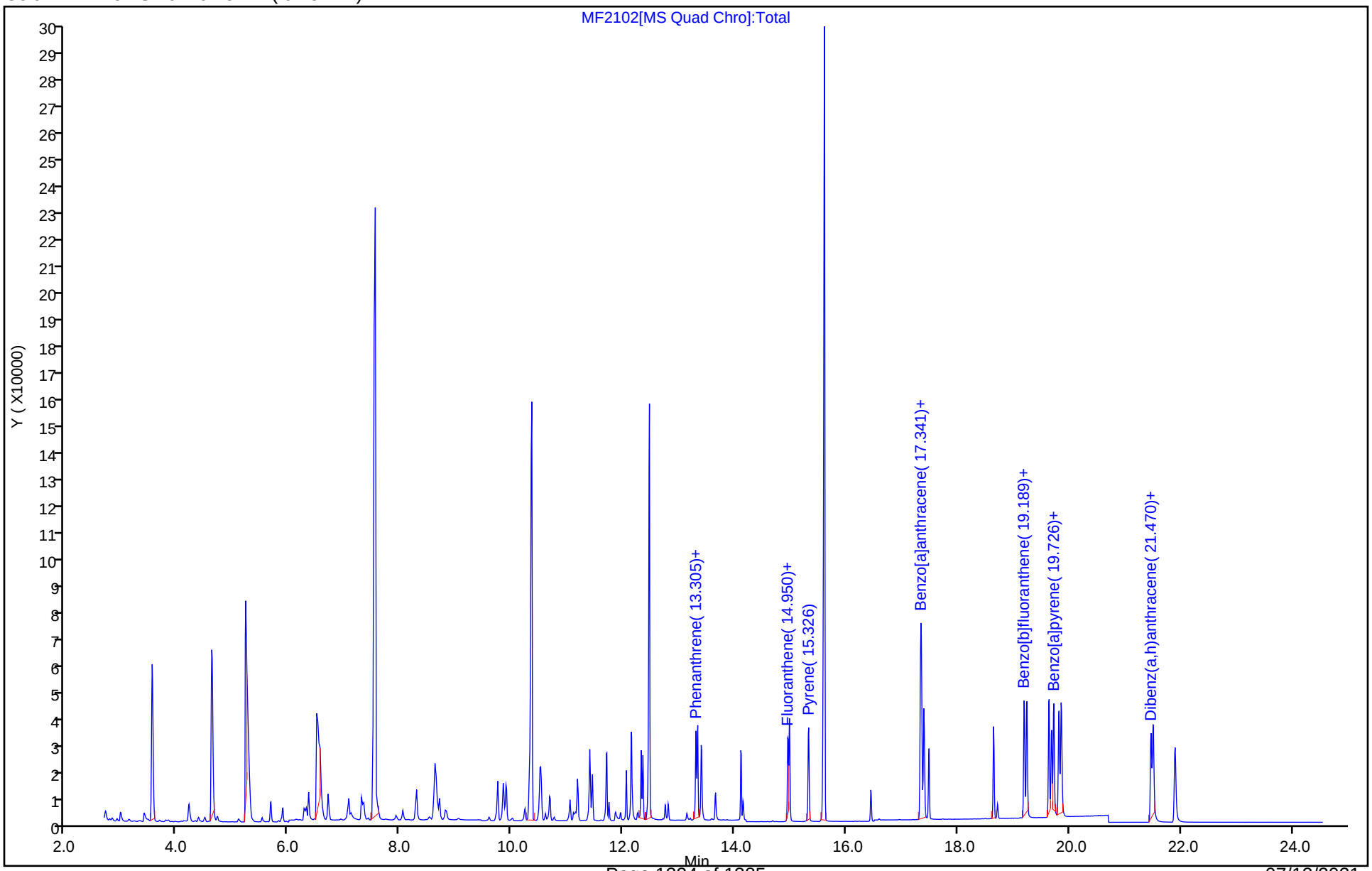
Report Date: 01-Jul-2021 16:41:48 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2102.D

Injection Date:	29-Jun-2021 20:19:25	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	LCS 410-143125/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

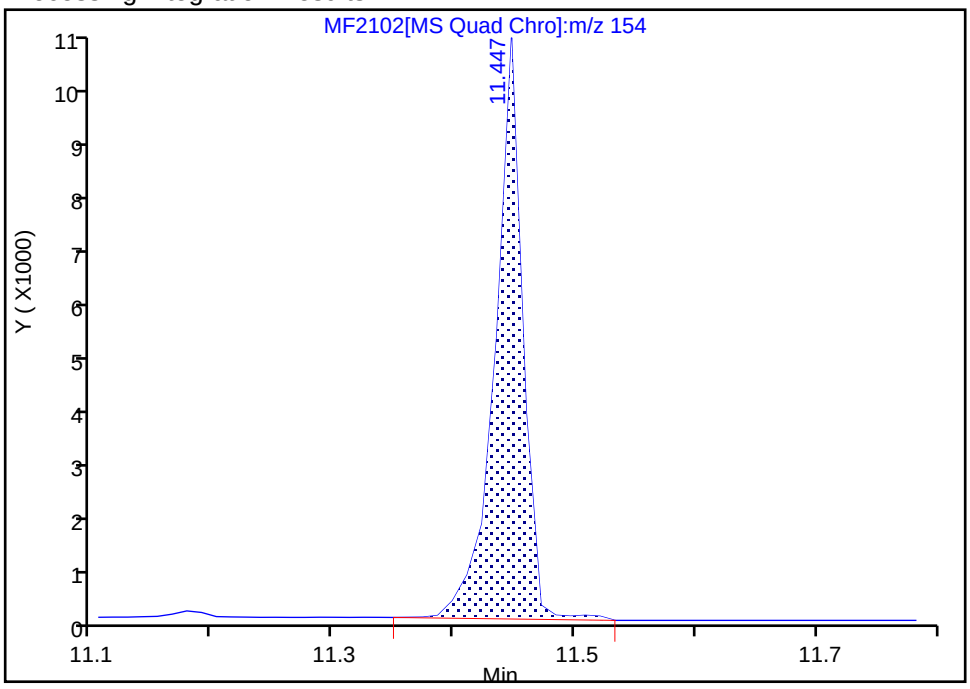
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2102.D				
Injection Date:	29-Jun-2021 20:19:25	Instrument ID:	HP21585		
Lims ID:	LCS 410-143125/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

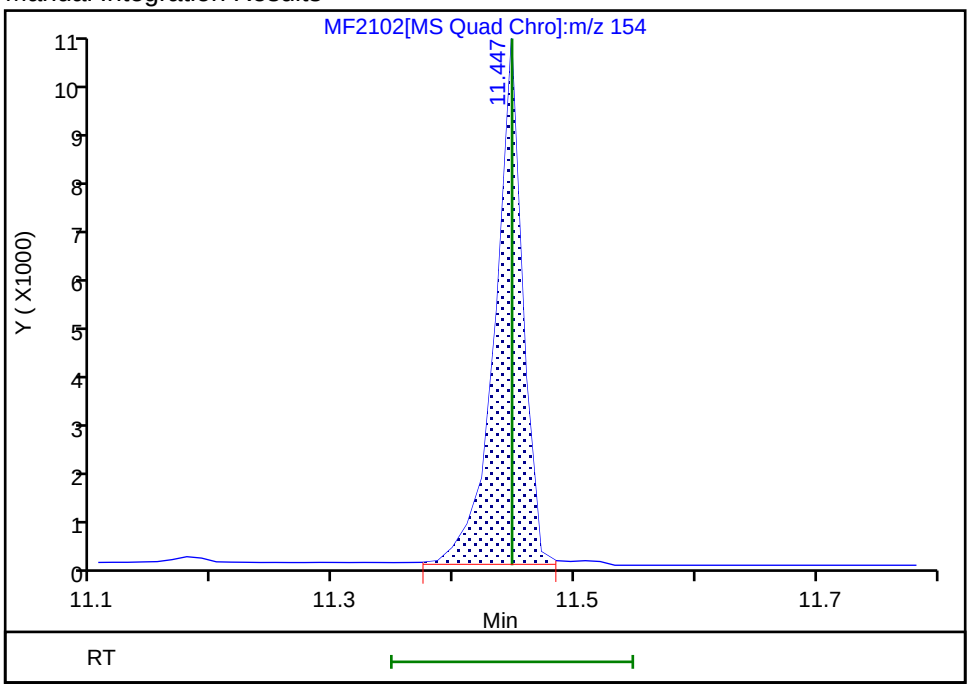
Processing Integration Results

RT: 11.45
Area: 16136
Amount: 0.202102
Amount Units: ug/ml



Manual Integration Results

RT: 11.45
Area: 16016
Amount: 0.200599
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:24:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

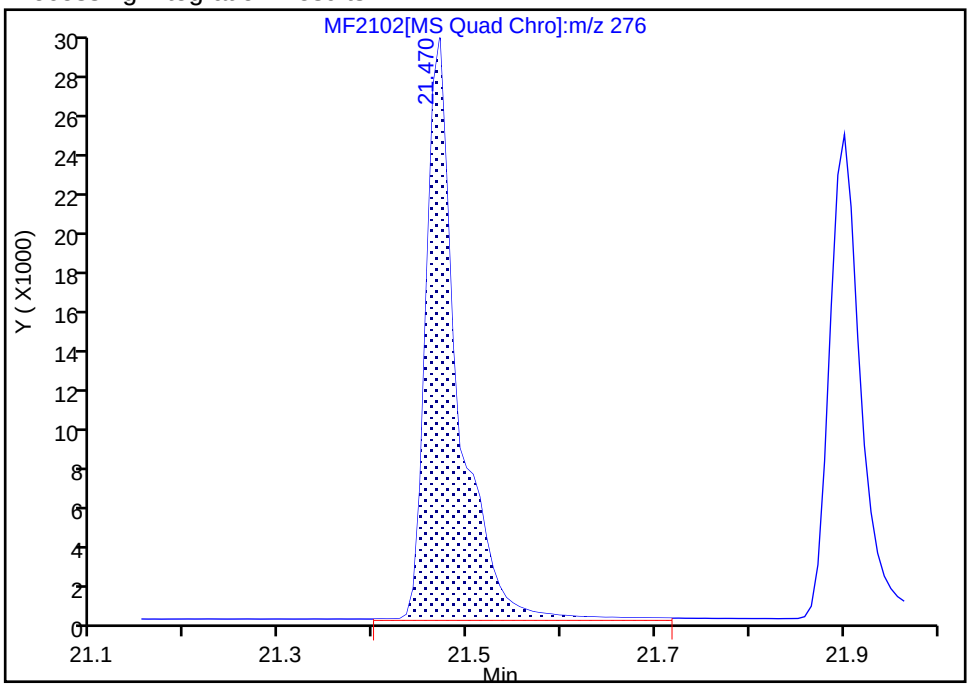
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2102.D				
Injection Date:	29-Jun-2021 20:19:25	Instrument ID:	HP21585		
Lims ID:	LCS 410-143125/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

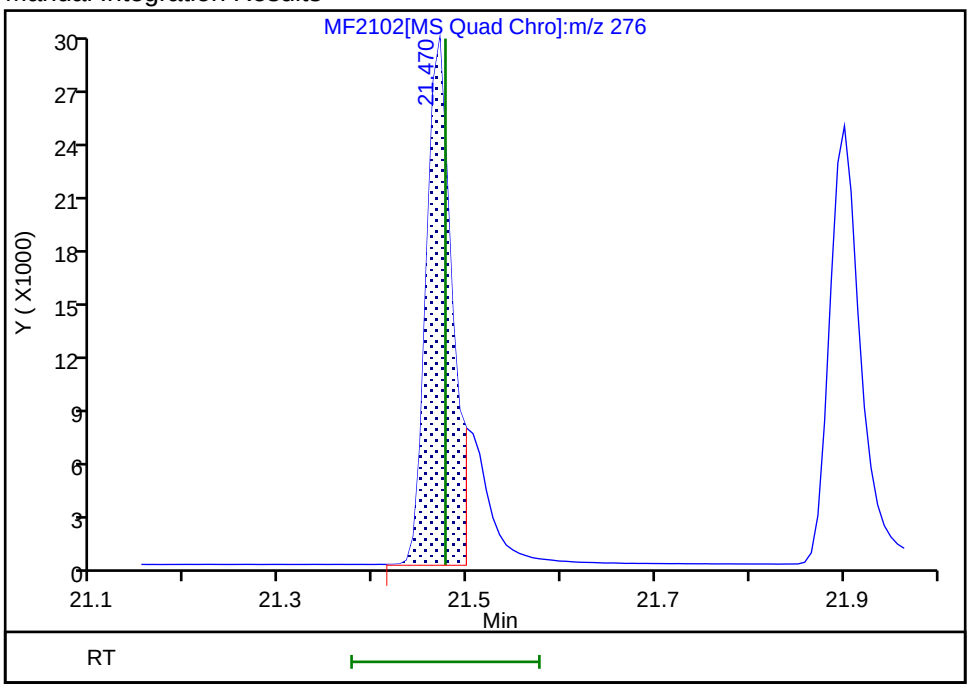
Processing Integration Results

RT: 21.47
Area: 70708
Amount: 0.322987
Amount Units: ug/ml



Manual Integration Results

RT: 21.47
Area: 56134
Amount: 0.256415
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:25:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

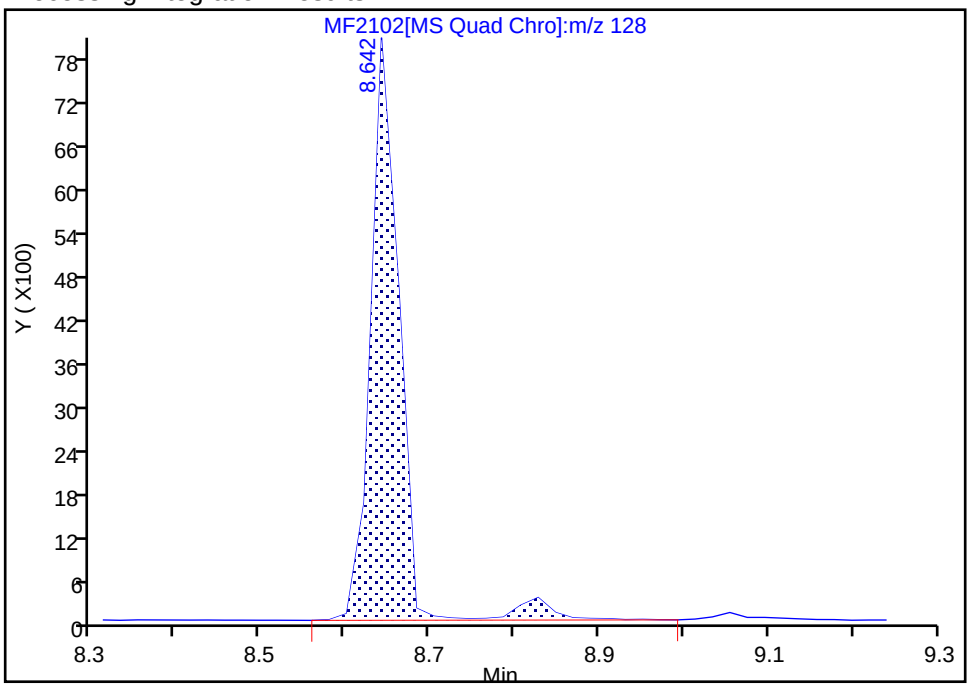
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210629-33197.b\MF2102.D				
Injection Date:	29-Jun-2021 20:19:25	Instrument ID:	HP21585		
Lims ID:	LCS 410-143125/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

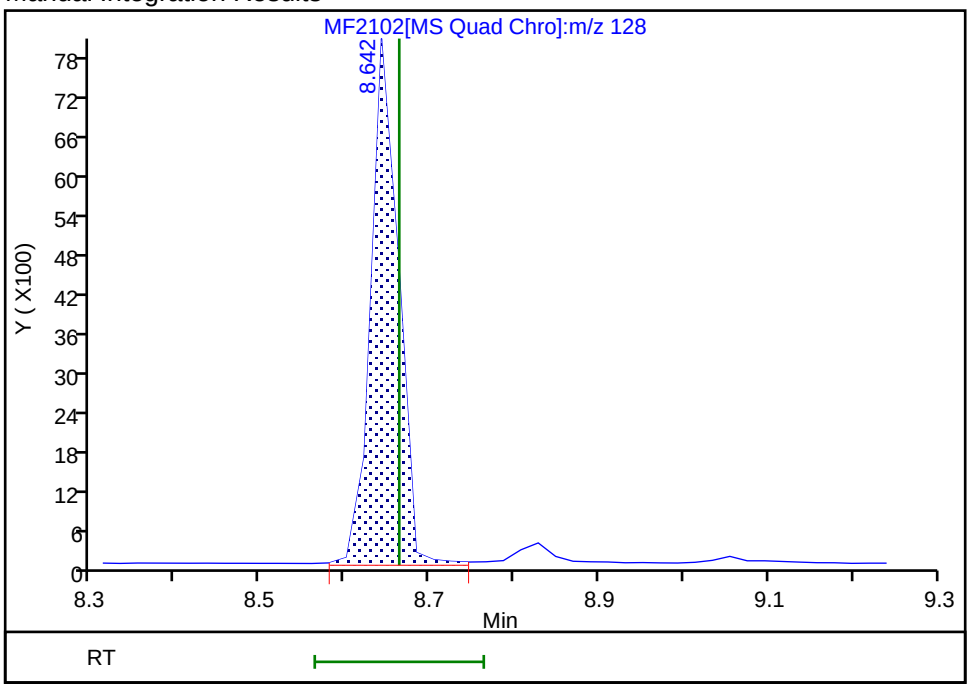
Processing Integration Results

RT: 8.64
Area: 19008
Amount: 0.168639
Amount Units: ug/ml



Manual Integration Results

RT: 8.64
Area: 18330
Amount: 0.162623
Amount Units: ug/ml



Reviewer: transuea, 01-Jul-2021 16:24:50

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-143664/2-A

Matrix: Water Lab File ID: NF1703.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 250(mL) Date Analyzed: 06/30/2021 20:42

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143979 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.921		0.050	0.010
208-96-8	Acenaphthylene	0.912		0.050	0.010
120-12-7	Anthracene	1.01		0.050	0.010
56-55-3	Benzo[a]anthracene	0.961		0.050	0.010
50-32-8	Benzo[a]pyrene	1.11		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.981		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	1.21		0.050	0.010
207-08-9	Benzo[k]fluoranthene	1.04		0.050	0.010
218-01-9	Chrysene	1.01		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.13		0.050	0.020
206-44-0	Fluoranthene	0.987		0.050	0.010
86-73-7	Fluorene	0.929		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.24		0.050	0.020
91-20-3	Naphthalene	0.850		0.070	0.030
85-01-8	Phenanthrene	0.944		0.070	0.030
129-00-0	Pyrene	0.950		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	86		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	88		36-111
93951-69-0	Fluoranthene-d10 (Surr)	91		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1703.D
Lims ID: LCS 410-143664/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2021 20:42:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-143664/2-A
Misc. Info.: 410-0033299-004
Operator ID: art12405 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 07:04:08 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 04:49:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.709	2.656	0.053	100	51535	0.2500	0.1422	
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	97	221886	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.040	8.040	0.000	100	773893	0.2500	0.2500	
6 Naphthalene	128	8.065	8.078	-0.012	100	677514	0.2500	0.2125	
$ 9 1-Methylnaphthalene-d10	152	9.295	9.296	-0.001	99	363568	0.2500	0.2206	
12 Acenaphthylene	152	10.648	10.658	-0.010	98	752913	0.2500	0.2279	
* 13 Acenaphthene-d10	164	10.878	10.888	-0.010	91	429318	0.2500	0.2500	
14 Acenaphthene	154	10.928	10.928	0.000	95	440903	0.2500	0.2303	
17 Fluorene	166	11.641	11.641	0.000	100	571680	0.2500	0.2323	
* 20 Phenanthrene-d10	188	12.799	12.807	-0.008	100	825721	0.2500	0.2500	
21 Phenanthrene	178	12.830	12.830	0.000	100	882410	0.2500	0.2359	
22 Anthracene	178	12.900	12.900	0.000	100	834197	0.2500	0.2537	
$ 24 Fluoranthene-d10 (Surr)	212	14.465	14.471	-0.006	98	775149	0.2500	0.2281	
25 Fluoranthene	202	14.496	14.496	0.000	97	963767	0.2500	0.2469	
26 Pyrene	202	14.841	14.841	0.000	96	958534	0.2500	0.2374	
28 Benzo[a]anthracene	228	16.863	16.871	-0.007	100	946512	0.2500	0.2402	
* 29 Chrysene-d12	240	16.886	16.886	0.000	88	800107	0.2500	0.2500	
30 Chrysene	228	16.932	16.932	0.000	100	934096	0.2500	0.2516	
33 Benzo[b]fluoranthene	252	18.742	18.742	0.000	100	1043460	0.2500	0.2453	
34 Benzo[k]fluoranthene	252	18.788	18.788	0.000	100	1094584	0.2500	0.2604	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.233	19.241	-0.007	97	712628	0.2500	0.2159	
37 Benzo[a]pyrene	252	19.271	19.271	0.000	100	1022387	0.2500	0.2765	
* 38 Perylene-d12	264	19.363	19.371	-0.008	96	894506	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.018	21.018	0.000	95	930170	0.2500	0.3109	
41 Dibenz(a,h)anthracene	278	21.068	21.075	-0.007	95	993067	0.2500	0.2823	
42 Benzo[g,h,i]perylene	276	21.449	21.449	0.000	95	1104523	0.2500	0.3027	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

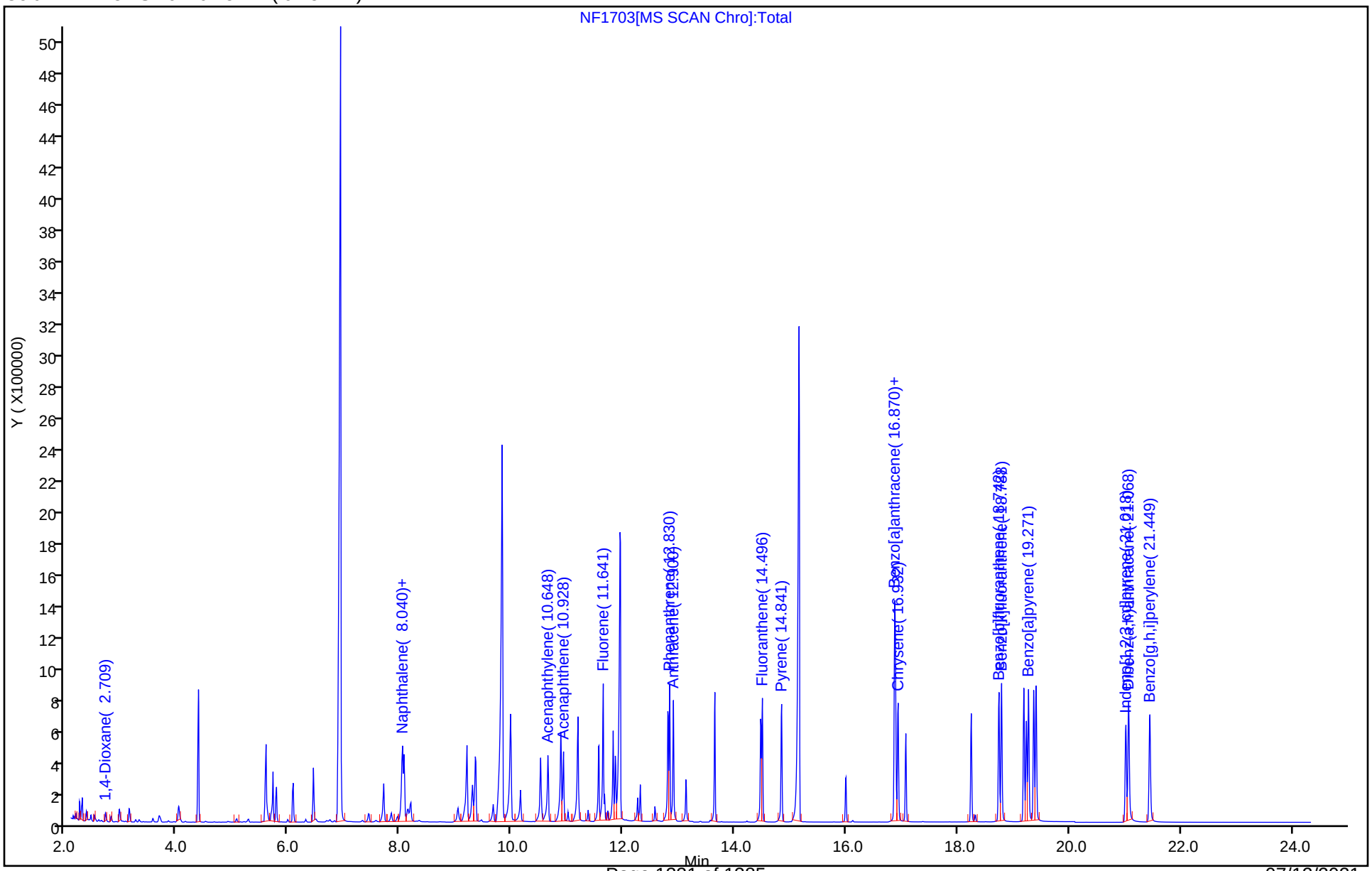
Report Date: 01-Jul-2021 07:04:47 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210630-33299.b\NF1703.D

Injection Date:	30-Jun-2021 20:42:30	Instrument ID:	HP23263	Operator ID:	art12405
Lims ID:	LCS 410-143664/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-143667/2-A

Matrix: Water Lab File ID: MF2203.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 09:42

Sample wt/vol: 250(mL) Date Analyzed: 06/30/2021 22:25

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.829		0.050	0.010
208-96-8	Acenaphthylene	0.828		0.050	0.010
120-12-7	Anthracene	0.910		0.050	0.010
56-55-3	Benzo[a]anthracene	0.876		0.050	0.010
50-32-8	Benzo[a]pyrene	0.913		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.921		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.934		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.873		0.050	0.010
218-01-9	Chrysene	0.850		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.01		0.050	0.020
206-44-0	Fluoranthene	0.853		0.050	0.010
86-73-7	Fluorene	0.852		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.17		0.050	0.020
91-20-3	Naphthalene	0.762		0.070	0.030
85-01-8	Phenanthrene	0.862		0.070	0.030
129-00-0	Pyrene	0.885		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	79		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		36-111
93951-69-0	Fluoranthene-d10 (Surr)	86		47-128

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2203.D
Lims ID: LCS 410-143667/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2021 22:25:27 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-143667/2-A
Misc. Info.: 410-0033298-004
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 09:45:43 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 01-Jul-2021 09:29:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.958	2.958	0.059	86	3677	0.2500	0.1557	
* 4 1,4-Dichlorobenzene-d4	152	6.688	6.689	-0.001	90	9112	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.605	8.605	0.000	91	30249	0.2500	0.2500	
6 Naphthalene	128	8.626	8.626	0.000	92	23598	0.2500	0.1904	
$ 9 1-Methylnaphthalene-d10	152	9.825	9.825	0.000	100	14616	0.2500	0.1858	
12 Acenaphthylene	152	11.158	11.170	-0.012	98	28651	0.2500	0.2070	
* 13 Acenaphthene-d10	164	11.378	11.378	0.000	98	20429	0.2500	0.2500	
14 Acenaphthene	154	11.427	11.427	0.000	93	18523	0.2500	0.2073	
17 Fluorene	166	12.126	12.134	-0.008	97	24419	0.2500	0.2129	
* 20 Phenanthrene-d10	188	13.281	13.289	-0.008	97	43228	0.2500	0.2500	
21 Phenanthrene	178	13.312	13.312	0.000	100	39614	0.2500	0.2155	
22 Anthracene	178	13.375	13.383	-0.008	100	38606	0.2500	0.2274	
$ 24 Fluoranthene-d10 (Surr)	212	14.931	14.922	0.000	97	43267	0.2500	0.2139	
25 Fluoranthene	202	14.956	14.956	-0.006	99	51480	0.2500	0.2133	
26 Pyrene	202	15.301	15.313	-0.006	97	50940	0.2500	0.2212	
28 Benzo[a]anthracene	228	17.302	17.310	-0.008	100	52817	0.2500	0.2190	
* 29 Chrysene-d12	240	17.317	17.325	-0.008	83	46501	0.2500	0.2500	
30 Chrysene	228	17.363	17.371	-0.008	100	54007	0.2500	0.2124	
33 Benzo[b]fluoranthene	252	19.165	19.181	-0.001	100	55687	0.2500	0.2302	
34 Benzo[k]fluoranthene	252	19.211	19.227	-0.001	100	57271	0.2500	0.2183	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.656	19.664	0.000	98	39392	0.2500	0.1983	
37 Benzo[a]pyrene	252	19.695	19.702	0.000	100	53341	0.2500	0.2283	
* 38 Perylene-d12	264	19.787	19.787	0.000	98	51958	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.435	21.477	-0.007	98	64434	0.2500	0.2936	M
41 Dibenz(a,h)anthracene	278	21.470	21.485	-0.007	95	62339	0.2500	0.2527	
42 Benzo[g,h,i]perylene	276	21.858	21.881	-0.015	94	60773	0.2500	0.2334	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

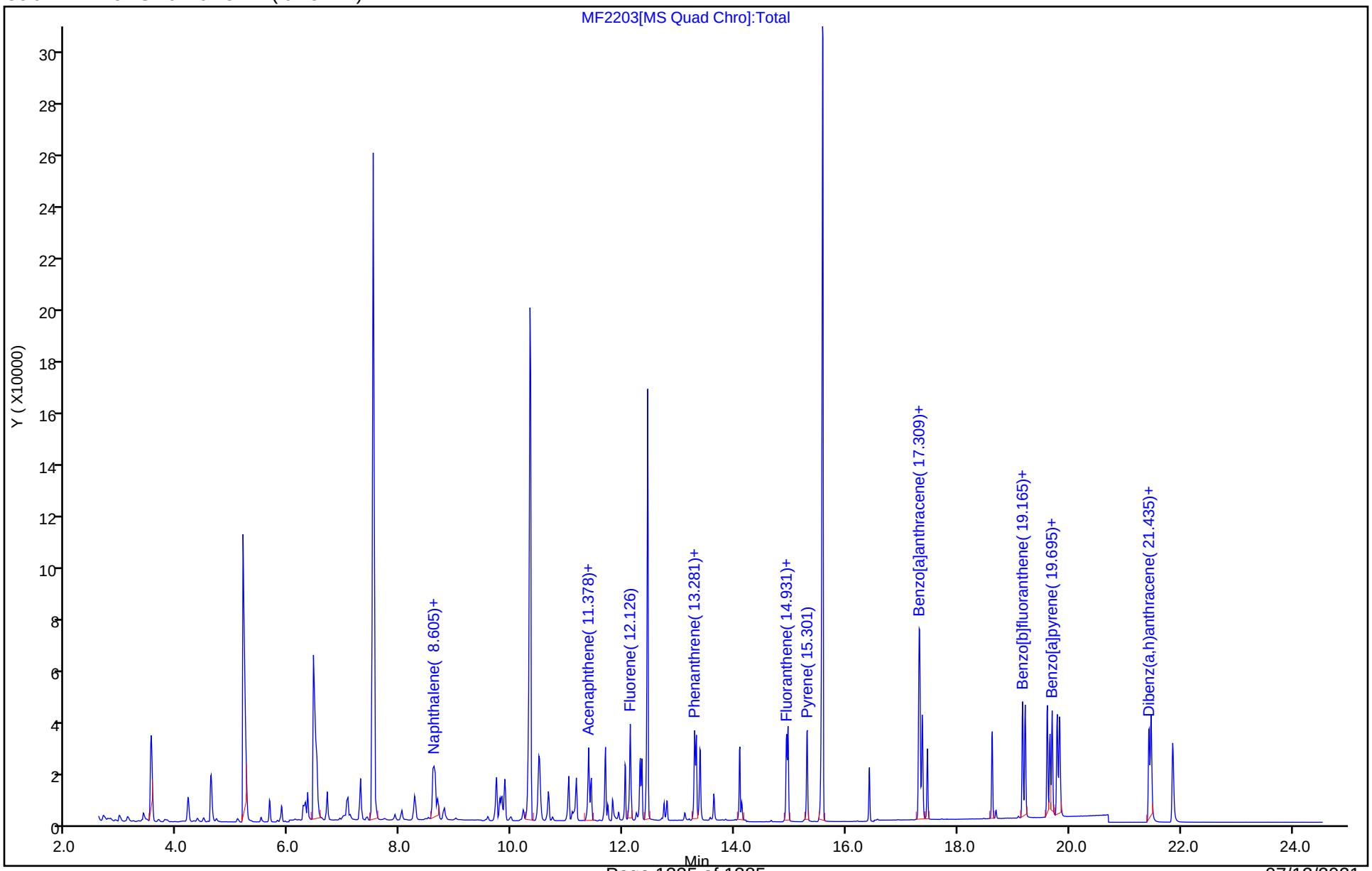
Report Date: 01-Jul-2021 09:47:31 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2203.D

Injection Date:	30-Jun-2021 22:25:27	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	LCS 410-143667/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

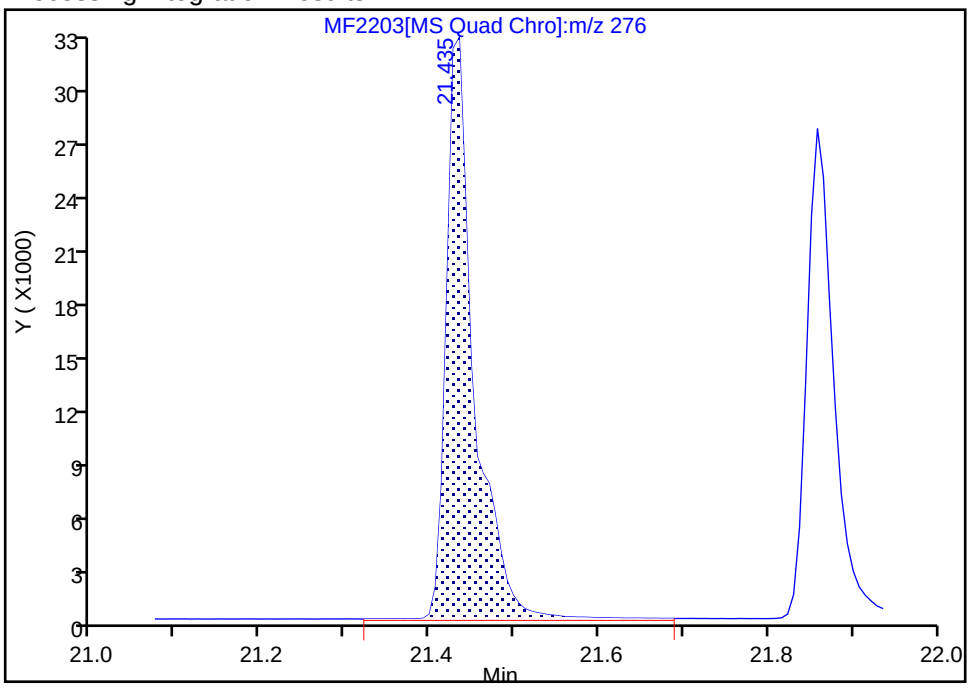
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210630-33298.b\MF2203.D				
Injection Date:	30-Jun-2021 22:25:27	Instrument ID:	HP21585		
Lims ID:	LCS 410-143667/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

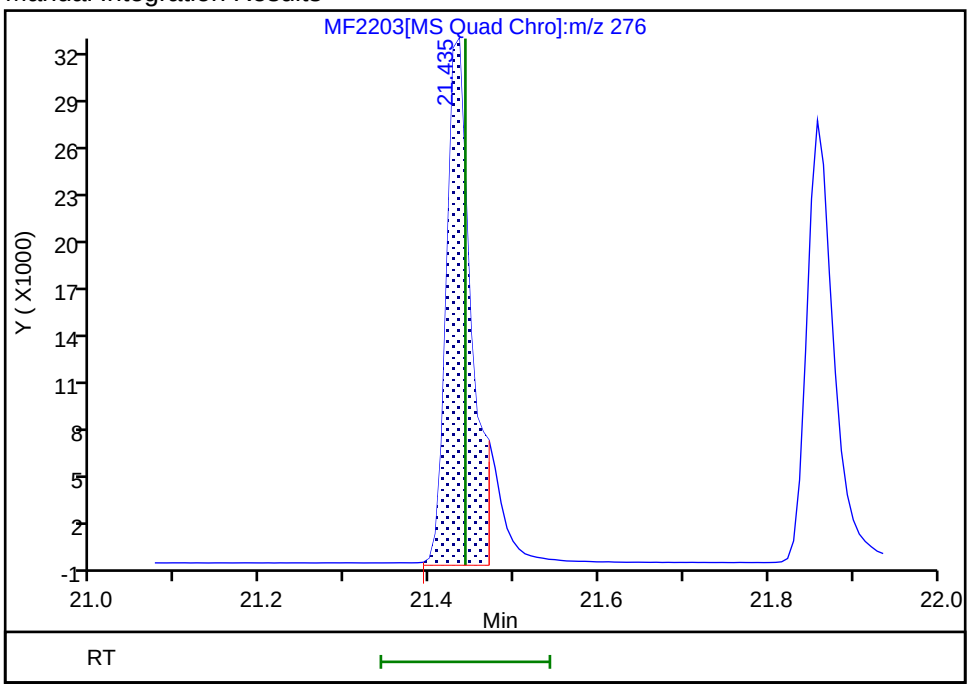
Processing Integration Results

RT: 21.43
Area: 74284
Amount: 0.338473
Amount Units: ug/ml



Manual Integration Results

RT: 21.43
Area: 64434
Amount: 0.293592
Amount Units: ug/ml



Reviewer: gamblerj, 01-Jul-2021 09:29:34

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-143956/2-A

Matrix: Water Lab File ID: NG0005.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 250(mL) Date Analyzed: 07/01/2021 10:38

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.836		0.050	0.010
208-96-8	Acenaphthylene	0.826		0.050	0.010
120-12-7	Anthracene	0.978		0.050	0.010
56-55-3	Benzo[a]anthracene	0.938		0.050	0.010
50-32-8	Benzo[a]pyrene	1.05		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.914		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	1.17		0.050	0.010
207-08-9	Benzo[k]fluoranthene	1.03		0.050	0.010
218-01-9	Chrysene	1.01		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.08		0.050	0.020
206-44-0	Fluoranthene	0.946		0.050	0.010
86-73-7	Fluorene	0.858		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.20		0.050	0.020
91-20-3	Naphthalene	0.803		0.070	0.030
85-01-8	Phenanthrene	0.908		0.070	0.030
129-00-0	Pyrene	0.967		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	87		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		36-111
93951-69-0	Fluoranthene-d10 (Surr)	89		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0005.D
Lims ID: LCS 410-143956/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2021 10:38:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-143956/2-A
Misc. Info.: 410-0033354-006
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 17:31:12 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 15:41:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.696	2.652	0.044	97	48728	0.2500	0.1477	
* 4 1,4-Dichlorobenzene-d4	152	6.082	6.078	0.004	96	201972	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.044	8.040	0.004	100	708756	0.2500	0.2500	
6 Naphthalene	128	8.069	8.078	-0.009	100	586457	0.2500	0.2008	
$ 9 1-Methylnaphthalene-d10	152	9.300	9.301	0.004	98	290633	0.2500	0.1925	
12 Acenaphthylene	152	10.652	10.658	-0.006	97	630760	0.2500	0.2064	
* 13 Acenaphthene-d10	164	10.882	10.888	-0.006	94	397180	0.2500	0.2500	
14 Acenaphthene	154	10.933	10.928	0.005	93	369927	0.2500	0.2089	
17 Fluorene	166	11.638	11.641	-0.003	99	488221	0.2500	0.2144	
* 20 Phenanthrene-d10	188	12.804	12.807	-0.003	100	754301	0.2500	0.2500	
21 Phenanthrene	178	12.835	12.838	-0.003	100	775918	0.2500	0.2271	
22 Anthracene	178	12.904	12.908	-0.004	100	734661	0.2500	0.2446	
$ 24 Fluoranthene-d10 (Surr)	212	14.469	14.477	-0.002	97	686876	0.2500	0.2213	
25 Fluoranthene	202	14.501	14.503	-0.001	97	843469	0.2500	0.2365	
26 Pyrene	202	14.839	14.847	-0.008	97	871912	0.2500	0.2419	
28 Benzo[a]anthracene	228	16.869	16.876	-0.009	100	824849	0.2500	0.2344	
* 29 Chrysene-d12	240	16.892	16.894	-0.002	86	714507	0.2500	0.2500	
30 Chrysene	228	16.930	16.930	-0.002	100	840057	0.2500	0.2534	
33 Benzo[b]fluoranthene	252	18.740	18.748	-0.010	100	906044	0.2500	0.2284	
34 Benzo[k]fluoranthene	252	18.794	18.794	-0.002	100	1010773	0.2500	0.2579	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.239	19.239	-0.002	96	672924	0.2500	0.2186	
37 Benzo[a]pyrene	252	19.277	19.277	-0.002	100	907456	0.2500	0.2631	
* 38 Perylene-d12	264	19.369	19.379	-0.010	95	834147	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.024	21.030	-0.009	95	837038	0.2500	0.3000	
41 Dibenz(a,h)anthracene	278	21.073	21.080	-0.009	95	887111	0.2500	0.2707	
42 Benzo[g,h,i]perylene	276	21.454	21.463	-0.009	95	991926	0.2500	0.2915	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

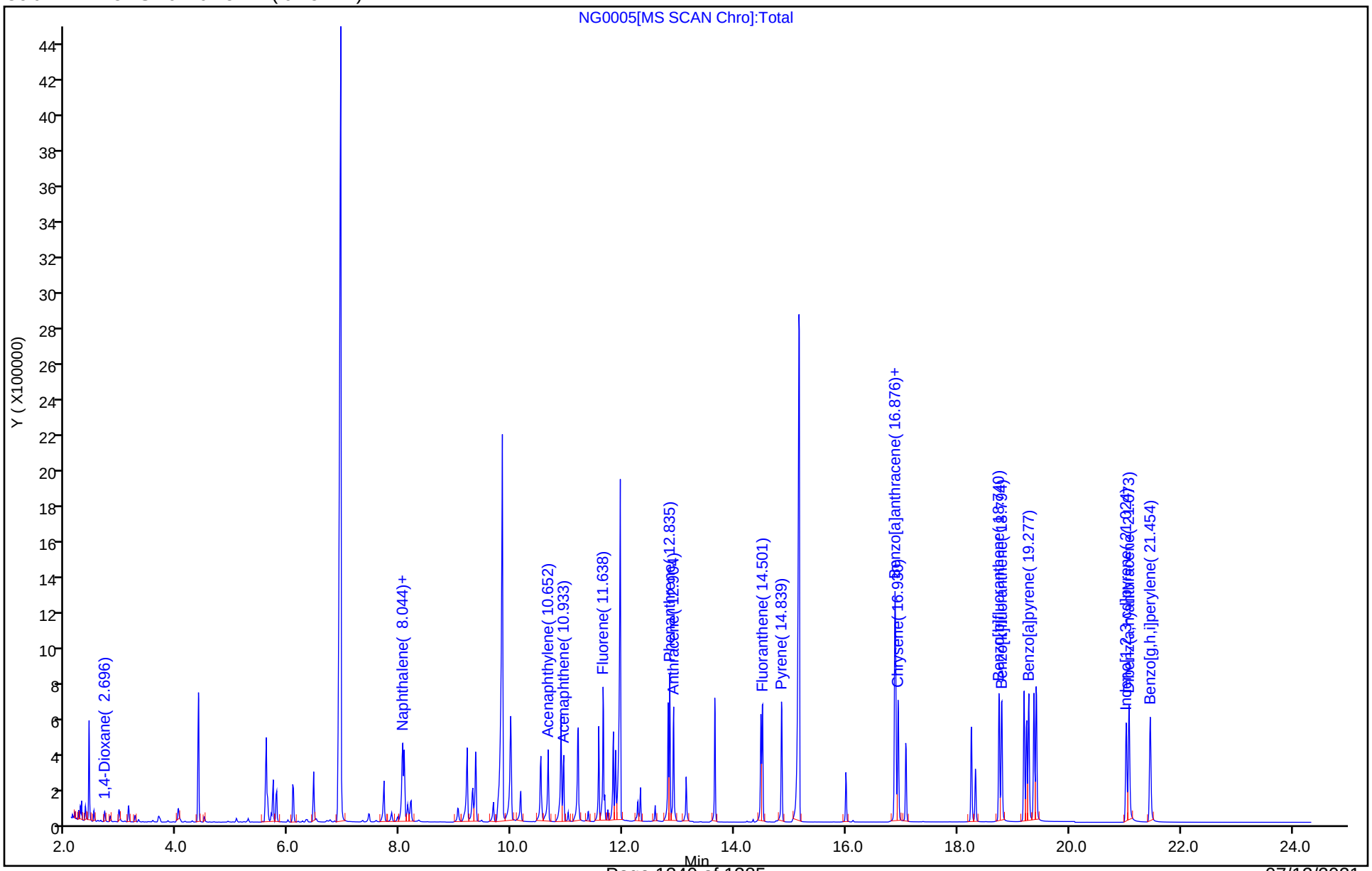
Report Date: 01-Jul-2021 17:31:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0005.D

Injection Date:	01-Jul-2021 10:38:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-143956/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-143961/2-A

Matrix: Water Lab File ID: NG0003.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 250(mL) Date Analyzed: 07/01/2021 09:38

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.882*		*0.050*	*0.010*
208-96-8	*Acenaphthylene*	*0.875*		*0.050*	*0.010*
120-12-7	*Anthracene*	*1.02*		*0.050*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.967*		*0.050*	*0.010*
50-32-8	*Benzo[a]pyrene*	*1.08*		*0.050*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.992*		*0.050*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*1.12*		*0.050*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*1.07*		*0.050*	*0.010*
218-01-9	*Chrysene*	*1.06*		*0.050*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*1.01*		*0.050*	*0.020*
206-44-0	*Fluoranthene*	*1.01*		*0.050*	*0.010*
86-73-7	*Fluorene*	*0.898*		*0.050*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*1.18*		*0.050*	*0.020*
91-20-3	*Naphthalene*	*0.773*		*0.070*	*0.030*
85-01-8	*Phenanthrene*	*0.966*		*0.070*	*0.030*
129-00-0	*Pyrene*	*1.04*		*0.050*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	88		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	83		36-111
93951-69-0	Fluoranthene-d10 (Surr)	93		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0003.D
Lims ID: LCS 410-143961/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2021 09:38:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-143961/2-A
Misc. Info.: 410-0033354-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 01-Jul-2021 17:31:12 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 01-Jul-2021 15:39:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.696	2.652	0.044	98	47963	0.2500	0.1385	
* 4 1,4-Dichlorobenzene-d4	152	6.078	6.078	0.000	99	212058	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.040	8.040	0.000	100	753885	0.2500	0.2500	
6 Naphthalene	128	8.077	8.078	-0.001	98	600541	0.2500	0.1933	
$ 9 1-Methylnaphthalene-d10	152	9.296	9.301	0.000	99	333050	0.2500	0.2074	
12 Acenaphthylene	152	10.648	10.658	-0.010	97	712393	0.2500	0.2188	
* 13 Acenaphthene-d10	164	10.888	10.888	0.000	100	423105	0.2500	0.2500	
14 Acenaphthene	154	10.928	10.928	0.000	96	415772	0.2500	0.2204	
17 Fluorene	166	11.641	11.641	0.000	98	544389	0.2500	0.2244	
* 20 Phenanthrene-d10	188	12.807	12.807	0.000	100	796543	0.2500	0.2500	
21 Phenanthrene	178	12.838	12.838	0.000	100	870976	0.2500	0.2414	
22 Anthracene	178	12.900	12.908	-0.008	99	811151	0.2500	0.2557	
$ 24 Fluoranthene-d10 (Surr)	212	14.471	14.477	0.000	97	763774	0.2500	0.2330	
25 Fluoranthene	202	14.496	14.503	-0.006	97	952635	0.2500	0.2529	
26 Pyrene	202	14.841	14.847	-0.006	96	955149	0.2500	0.2590	
28 Benzo[a]anthracene	228	16.870	16.876	-0.008	100	869731	0.2500	0.2416	
* 29 Chrysene-d12	240	16.886	16.894	-0.008	94	730819	0.2500	0.2500	
30 Chrysene	228	16.932	16.930	0.000	100	895438	0.2500	0.2641	
33 Benzo[b]fluoranthene	252	18.742	18.748	-0.008	100	960346	0.2500	0.2480	
34 Benzo[k]fluoranthene	252	18.788	18.794	-0.008	100	1023336	0.2500	0.2675	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.240	19.239	-0.001	96	659473	0.2500	0.2194	
37 Benzo[a]pyrene	252	19.279	19.277	0.000	100	910000	0.2500	0.2703	
* 38 Perylene-d12	264	19.371	19.379	-0.008	95	814235	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.025	21.030	-0.008	94	803717	0.2500	0.2951	
41 Dibenz(a,h)anthracene	278	21.075	21.080	-0.007	95	806312	0.2500	0.2525	
42 Benzo[g,h,i]perylene	276	21.456	21.463	-0.007	95	926938	0.2500	0.2791	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

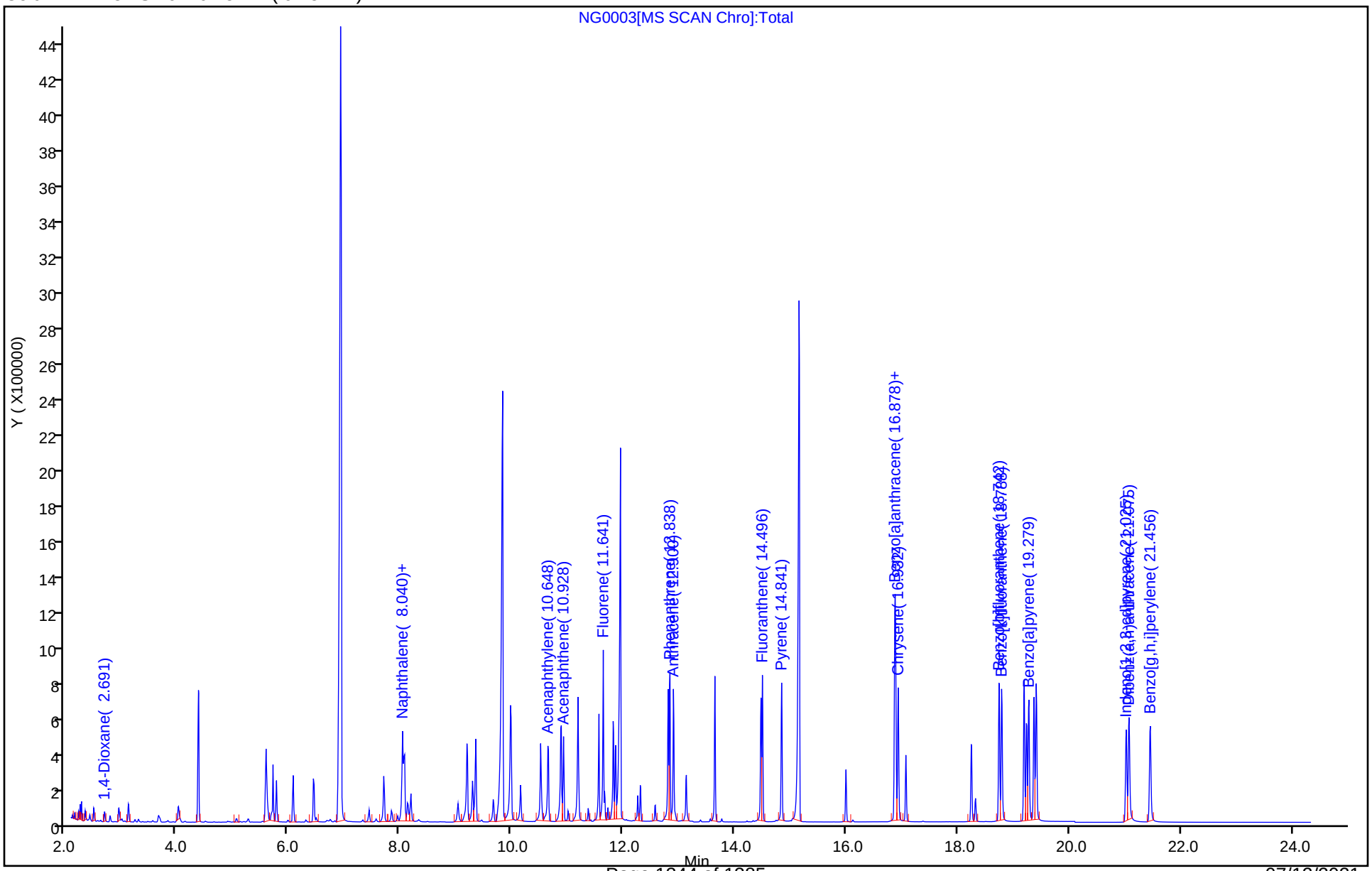
Report Date: 01-Jul-2021 17:31:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210701-33354.b\NG0003.D

Injection Date:	01-Jul-2021 09:38:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-143961/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-144459/2-A

Matrix: Water Lab File ID: NG0263.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 07/01/2021 18:00

Sample wt/vol: 250(mL) Date Analyzed: 07/05/2021 09:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 145058 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.777		0.050	0.010
208-96-8	Acenaphthylene	0.794		0.050	0.010
120-12-7	Anthracene	0.915		0.050	0.010
56-55-3	Benzo[a]anthracene	0.881		0.050	0.010
50-32-8	Benzo[a]pyrene	0.998		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.906		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	1.11		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.969		0.050	0.010
218-01-9	Chrysene	0.957		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.996		0.050	0.020
206-44-0	Fluoranthene	0.889		0.050	0.010
86-73-7	Fluorene	0.786		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.19		0.050	0.020
91-20-3	Naphthalene	0.683		0.070	0.030
85-01-8	Phenanthrene	0.835		0.070	0.030
129-00-0	Pyrene	0.850		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	83		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		36-111
93951-69-0	Fluoranthene-d10 (Surr)	82		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0263.D
Lims ID: LCS 410-144459/2-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Jul-2021 09:48:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-144459/2-A
Misc. Info.: 410-0033536-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Jul-2021 04:48:49 Calib Date: 22-Jun-2021 09:12:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20210622-32502.b\NF0906.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: gamblerj Date: 06-Jul-2021 04:40:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.705	2.696	0.044	99	37503	0.2500	0.1079	
* 4 1,4-Dichlorobenzene-d4	152	6.066	6.053	0.013	98	212764	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.028	8.028	0.000	100	752544	0.2500	0.2500	
6 Naphthalene	128	8.053	8.053	0.000	99	529708	0.2500	0.1708	
$ 9 1-Methylnaphthalene-d10	152	9.276	9.276	0.000	99	295665	0.2500	0.1845	
12 Acenaphthylene	152	10.638	10.638	0.000	97	634992	0.2500	0.1985	
* 13 Acenaphthene-d10	164	10.868	10.868	0.000	96	415857	0.2500	0.2500	
14 Acenaphthene	154	10.918	10.918	0.000	91	360100	0.2500	0.1942	
17 Fluorene	166	11.626	11.625	0.000	100	468710	0.2500	0.1966	
* 20 Phenanthrene-d10	188	12.792	12.792	0.000	100	798235	0.2500	0.2500	
21 Phenanthrene	178	12.815	12.815	0.000	100	754462	0.2500	0.2087	
22 Anthracene	178	12.884	12.884	0.000	100	727120	0.2500	0.2287	
$ 24 Fluoranthene-d10 (Surr)	212	14.446	14.452	-0.006	98	670236	0.2500	0.2040	
25 Fluoranthene	202	14.477	14.477	0.000	97	838839	0.2500	0.2223	
26 Pyrene	202	14.822	14.822	0.000	96	865733	0.2500	0.2124	
28 Benzo[a]anthracene	228	16.848	16.855	0.000	100	876187	0.2500	0.2203	
* 29 Chrysene-d12	240	16.863	16.863	0.000	92	807746	0.2500	0.2500	
30 Chrysene	228	16.909	16.917	0.000	100	896246	0.2500	0.2392	
31 Bis(2-ethylhexyl) phthalate	149	17.047	17.047	0.000	100	484334	0.2500	0.2524	
33 Benzo[b]fluoranthene	252	18.719	18.719	0.000	100	1048438	0.2500	0.2265	
34 Benzo[k]fluoranthene	252	18.765	18.773	0.000	100	1108200	0.2500	0.2423	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.210	19.217	-0.007	97	743926	0.2500	0.2071	
37 Benzo[a]pyrene	252	19.248	19.256	-0.008	100	1003868	0.2500	0.2495	
* 38 Perylene-d12	264	19.348	19.348	0.000	94	973285	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.997	20.997	0.000	94	965812	0.2500	0.2967	
41 Dibenz(a,h)anthracene	278	21.047	21.054	0.000	94	950018	0.2500	0.2490	
42 Benzo[g,h,i]perylene	276	21.421	21.428	-0.007	95	1097005	0.2500	0.2763	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00015 Amount Added: 10.00 Units: uL Run Reagent

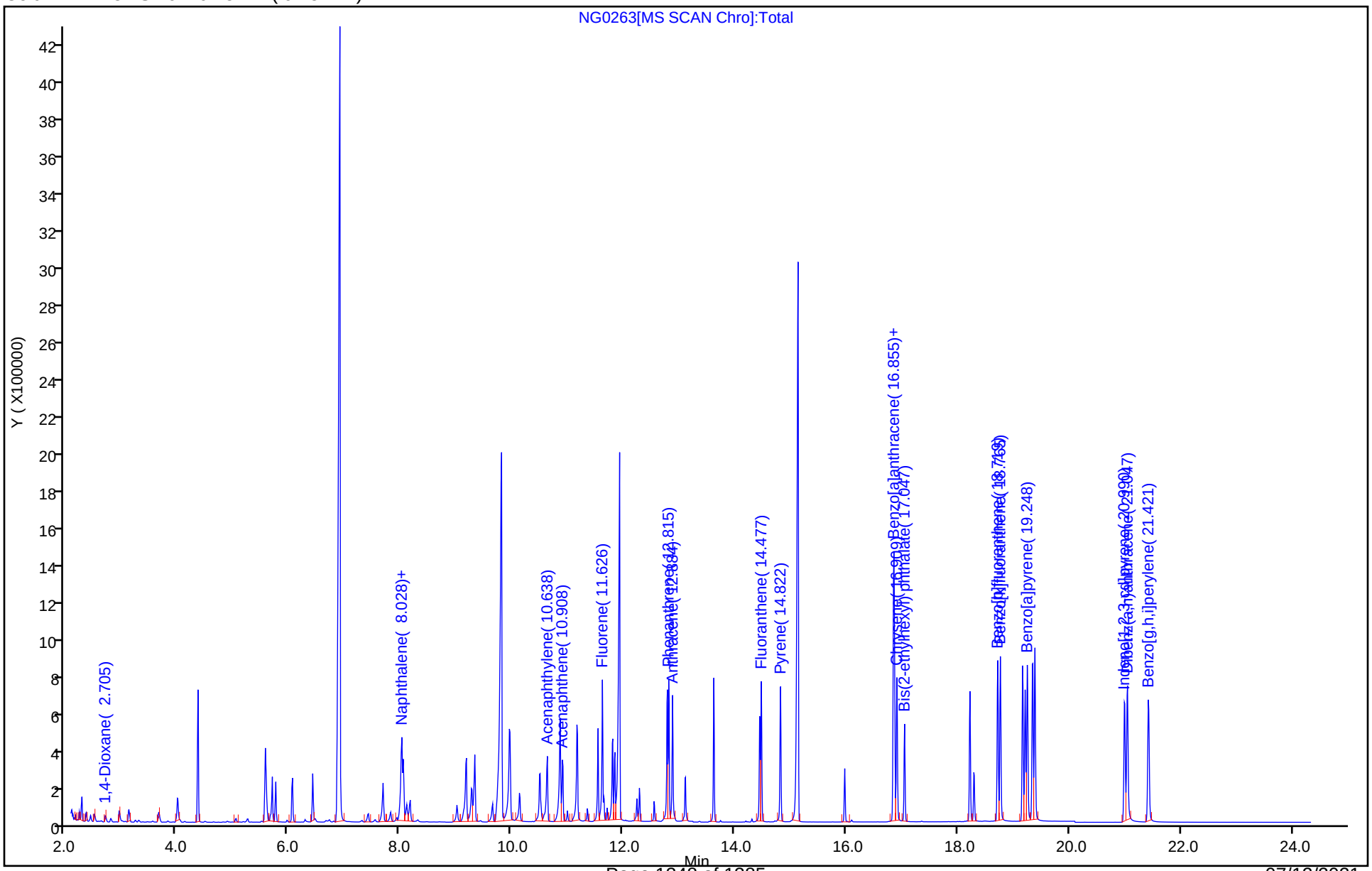
Report Date: 06-Jul-2021 04:50:53 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20210705-33536.b\NG0263.D

Injection Date:	05-Jul-2021 09:48:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-144459/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8D-20210623 MS Lab Sample ID: 410-45105-5 MS

Matrix: Groundwater Lab File ID: MG0106.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 09:49

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 243.6(mL) Date Analyzed: 07/02/2021 14:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.890		0.051	0.010
208-96-8	Acenaphthylene	0.912		0.051	0.010
120-12-7	Anthracene	0.913		0.051	0.010
56-55-3	Benzo[a]anthracene	1.06		0.051	0.010
50-32-8	Benzo[a]pyrene	1.04		0.051	0.010
205-99-2	Benzo[b]fluoranthene	1.07		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.897		0.051	0.010
207-08-9	Benzo[k]fluoranthene	0.972		0.051	0.010
218-01-9	Chrysene	0.979		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	1.02		0.051	0.021
206-44-0	Fluoranthene	0.931		0.051	0.010
86-73-7	Fluorene	0.934		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.13		0.051	0.021
91-20-3	Naphthalene	0.795		0.072	0.031
85-01-8	Phenanthrene	0.968		0.072	0.031
129-00-0	Pyrene	0.943		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	88		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	72		36-111
93951-69-0	Fluoranthene-d10 (Surr)	88		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0106.D
Lims ID: 410-45105-A-5-A MS
Client ID: MW-8D-20210623
Sample Type: MS
Inject. Date: 02-Jul-2021 14:01:52 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-5-A MS
Misc. Info.: 410-0033483-007
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jul-2021 05:48:55 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 05-Jul-2021 05:40:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	94	9173	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	0.000	98	31000	0.2500	0.2500	
6 Naphthalene	128	8.605	8.605	0.000	92	24614	0.2500	0.1938	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	14586	0.2500	0.1810	
12 Acenaphthylene	152	11.146	11.146	0.000	99	30555	0.2500	0.2223	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	95	20295	0.2500	0.2500	
14 Acenaphthene	154	11.415	11.415	0.000	92	19258	0.2500	0.2169	
17 Fluorene	166	12.110	12.118	-0.008	98	25923	0.2500	0.2275	
* 20 Phenanthrene-d10	188	13.265	13.273	-0.008	96	43622	0.2500	0.2500	
21 Phenanthrene	178	13.297	13.304	-0.008	100	43758	0.2500	0.2359	
22 Anthracene	178	13.367	13.375	-0.008	100	38112	0.2500	0.2225	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	96	44813	0.2500	0.2195	
25 Fluoranthene	202	14.943	14.943	-0.007	98	55206	0.2500	0.2267	
26 Pyrene	202	15.282	15.288	-0.006	97	55961	0.2500	0.2298	
28 Benzo[a]anthracene	228	17.286	17.294	-0.008	100	65669	0.2500	0.2575	
* 29 Chrysene-d12	240	17.302	17.310	-0.008	74	49181	0.2500	0.2500	
30 Chrysene	228	17.348	17.355	-0.008	100	64112	0.2500	0.2384	
33 Benzo[b]fluoranthene	252	19.150	19.166	0.000	100	73277	0.2500	0.2605	
34 Benzo[k]fluoranthene	252	19.196	19.196	0.000	100	72201	0.2500	0.2367	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	97	50981	0.2500	0.2207	
37 Benzo[a]pyrene	252	19.679	19.687	-0.001	100	68596	0.2500	0.2524	
* 38 Perylene-d12	264	19.771	19.772	-0.001	97	60421	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.413	21.427	-0.015	98	70186	0.2500	0.2750	M
41 Dibenz(a,h)anthracene	278	21.456	21.463	-0.007	95	71264	0.2500	0.2484	
42 Benzo[g,h,i]perylene	276	21.844	21.851	-0.008	94	66186	0.2500	0.2186	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

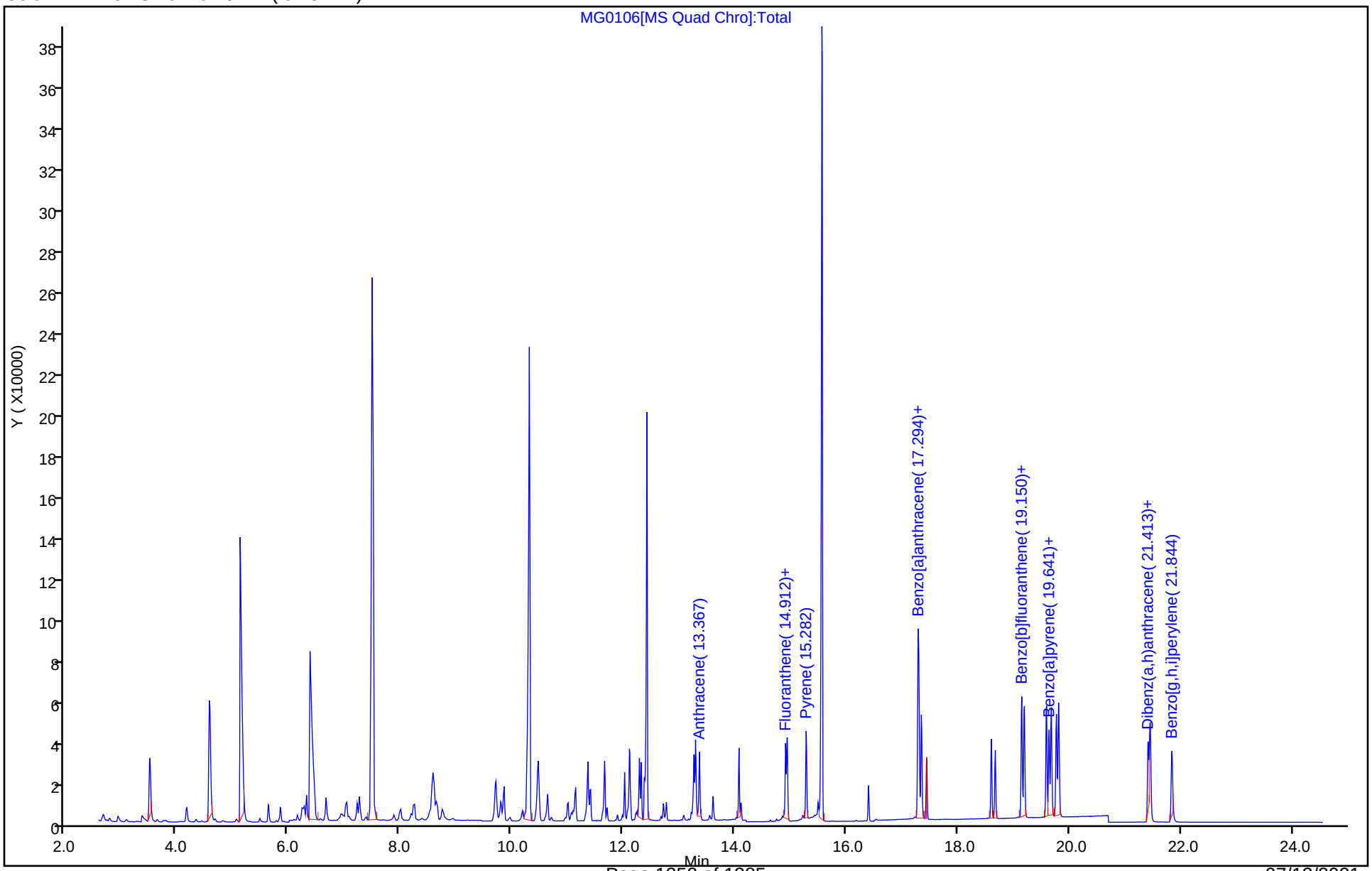
Report Date: 05-Jul-2021 05:49:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0106.D

Injection Date:	02-Jul-2021 14:01:52	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-5-A MS			Worklist Smp#:	7
Client ID:	MW-8D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

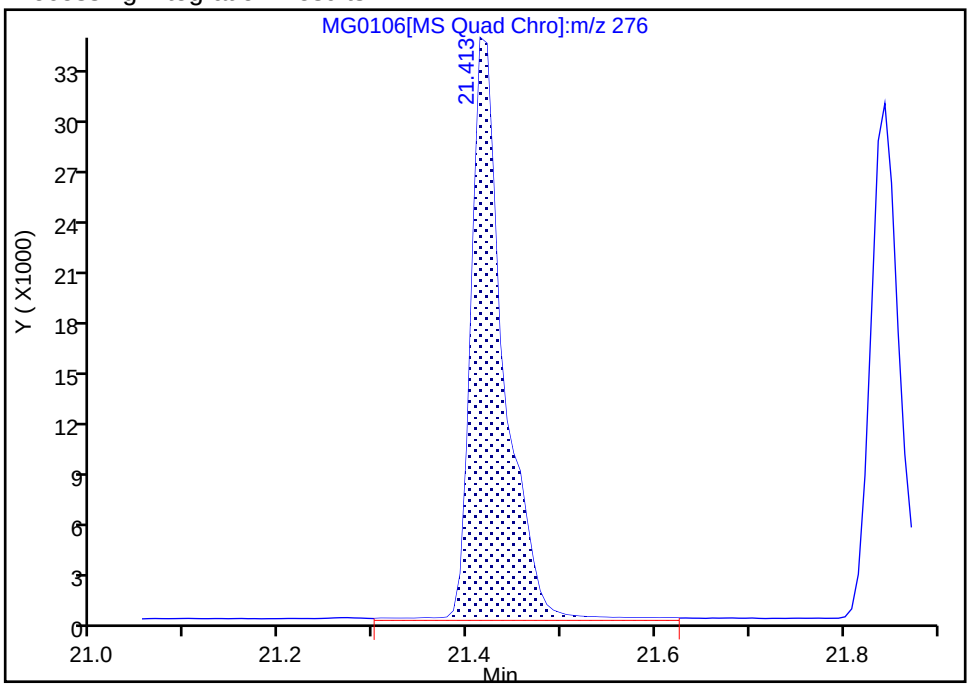
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Injection Date:	02-Jul-2021 14:01:52	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-A MS				
Client ID:	MW-8D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

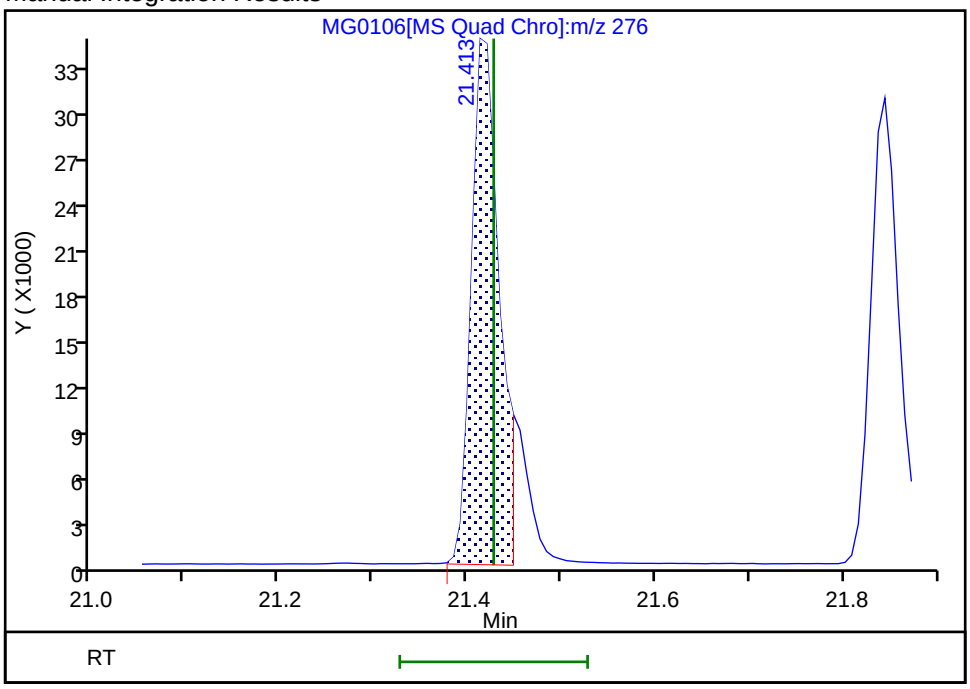
Processing Integration Results

RT: 21.41
Area: 83970
Amount: 0.329016
Amount Units: ug/ml



Manual Integration Results

RT: 21.41
Area: 70186
Amount: 0.275007
Amount Units: ug/ml



Reviewer: gamblerj, 05-Jul-2021 05:39:57

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45105-1

SDG No.:

Client Sample ID: MW-8D-20210623 MSD Lab Sample ID: 410-45105-5 MSD

Matrix: Groundwater Lab File ID: MG0107.D

Analysis Method: 8270D SIM Date Collected: 06/23/2021 09:49

Extract. Method: 3510C Date Extracted: 06/30/2021 17:15

Sample wt/vol: 240.2(mL) Date Analyzed: 07/02/2021 14:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 144775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.782		0.052	0.010
208-96-8	Acenaphthylene	0.809		0.052	0.010
120-12-7	Anthracene	0.913		0.052	0.010
56-55-3	Benzo[a]anthracene	0.939		0.052	0.010
50-32-8	Benzo[a]pyrene	0.932		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.954		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.757		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.887		0.052	0.010
218-01-9	Chrysene	0.889		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.885		0.052	0.021
206-44-0	Fluoranthene	0.932		0.052	0.010
86-73-7	Fluorene	0.839		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.961		0.052	0.021
91-20-3	Naphthalene	0.719		0.073	0.031
85-01-8	Phenanthrene	0.906		0.073	0.031
129-00-0	Pyrene	0.874		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	67		36-111
93951-69-0	Fluoranthene-d10 (Surr)	86		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0107.D
Lims ID: 410-45105-A-5-B MSD
Client ID: MW-8D-20210623
Sample Type: MSD
Inject. Date: 02-Jul-2021 14:32:32 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-45105-A-5-B MSD
Misc. Info.: 410-0033483-008
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jul-2021 05:48:55 Calib Date: 03-Jun-2021 11:51:27
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210603-30970.b\MF0166.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 05-Jul-2021 05:40:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.668	6.668	0.000	92	10648	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.585	8.585	0.000	96	36226	0.2500	0.2500	
6 Naphthalene	128	8.605	8.605	0.000	92	25635	0.2500	0.1727	
$ 9 1-Methylnaphthalene-d10	152	9.801	9.813	-0.012	100	15739	0.2500	0.1671	
12 Acenaphthylene	152	11.146	11.146	0.000	99	31360	0.2500	0.1944	
* 13 Acenaphthene-d10	164	11.366	11.366	0.000	98	23810	0.2500	0.2500	
14 Acenaphthene	154	11.415	11.415	0.000	92	19577	0.2500	0.1879	
17 Fluorene	166	12.110	12.118	-0.008	97	26933	0.2500	0.2015	
* 20 Phenanthrene-d10	188	13.265	13.273	-0.008	97	50803	0.2500	0.2500	
21 Phenanthrene	178	13.297	13.304	-0.008	100	47031	0.2500	0.2177	
22 Anthracene	178	13.367	13.375	-0.008	100	43773	0.2500	0.2194	
$ 24 Fluoranthene-d10 (Surr)	212	14.912	14.918	-0.006	97	50893	0.2500	0.2141	
25 Fluoranthene	202	14.943	14.943	-0.007	99	63472	0.2500	0.2238	
26 Pyrene	202	15.282	15.288	-0.006	97	60556	0.2500	0.2100	
28 Benzo[a]anthracene	228	17.286	17.294	-0.008	100	68174	0.2500	0.2257	
* 29 Chrysene-d12	240	17.302	17.310	-0.008	71	58249	0.2500	0.2500	
30 Chrysene	228	17.348	17.355	-0.008	100	68022	0.2500	0.2136	
33 Benzo[b]fluoranthene	252	19.150	19.166	0.000	100	74132	0.2500	0.2291	
34 Benzo[k]fluoranthene	252	19.196	19.196	0.000	100	74726	0.2500	0.2130	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.641	19.641	0.000	97	52103	0.2500	0.1961	
37 Benzo[a]pyrene	252	19.679	19.687	-0.001	100	69920	0.2500	0.2237	
* 38 Perylene-d12	264	19.771	19.772	-0.001	97	69484	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.421	21.427	-0.008	97	67751	0.2500	0.2308	M
41 Dibenz(a,h)anthracene	278	21.456	21.463	-0.007	94	70144	0.2500	0.2126	
42 Benzo[g,h,i]perylene	276	21.844	21.851	-0.008	94	63283	0.2500	0.1817	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

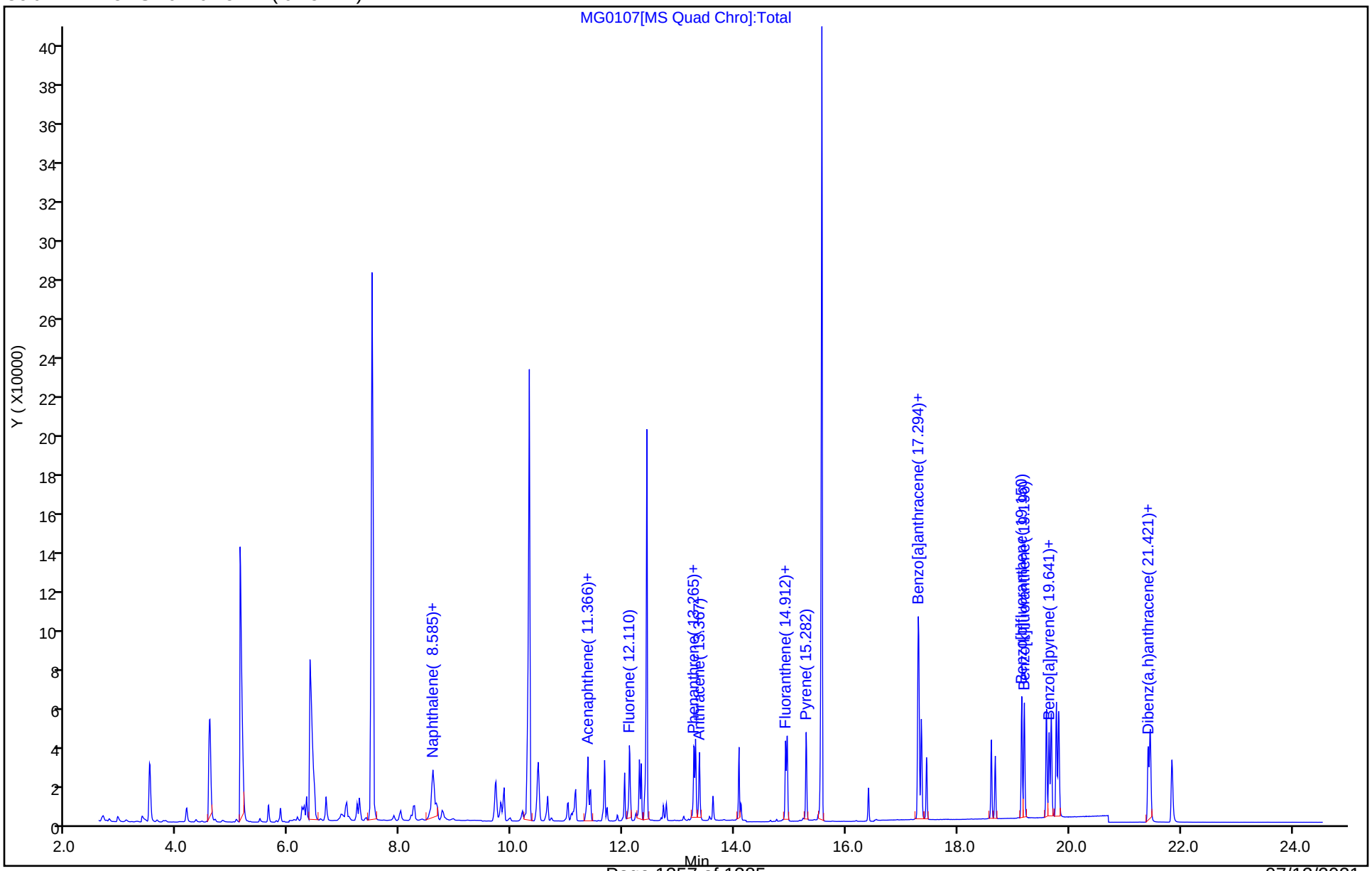
Report Date: 05-Jul-2021 05:49:25 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210702-33483.b\MG0107.D

Injection Date:	02-Jul-2021 14:32:32	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-45105-A-5-B MSD			Worklist Smp#:	8
Client ID:	MW-8D-20210623				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

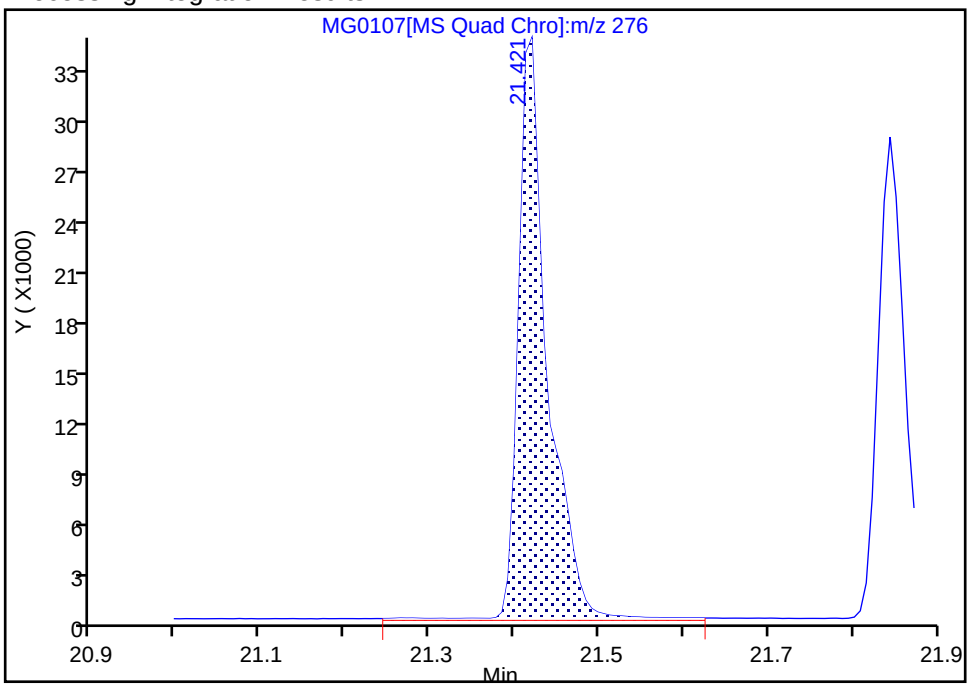
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Injection Date:	02-Jul-2021 14:32:32	Instrument ID:	HP21585		
Lims ID:	410-45105-A-5-B MSD				
Client ID:	MW-8D-20210623				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

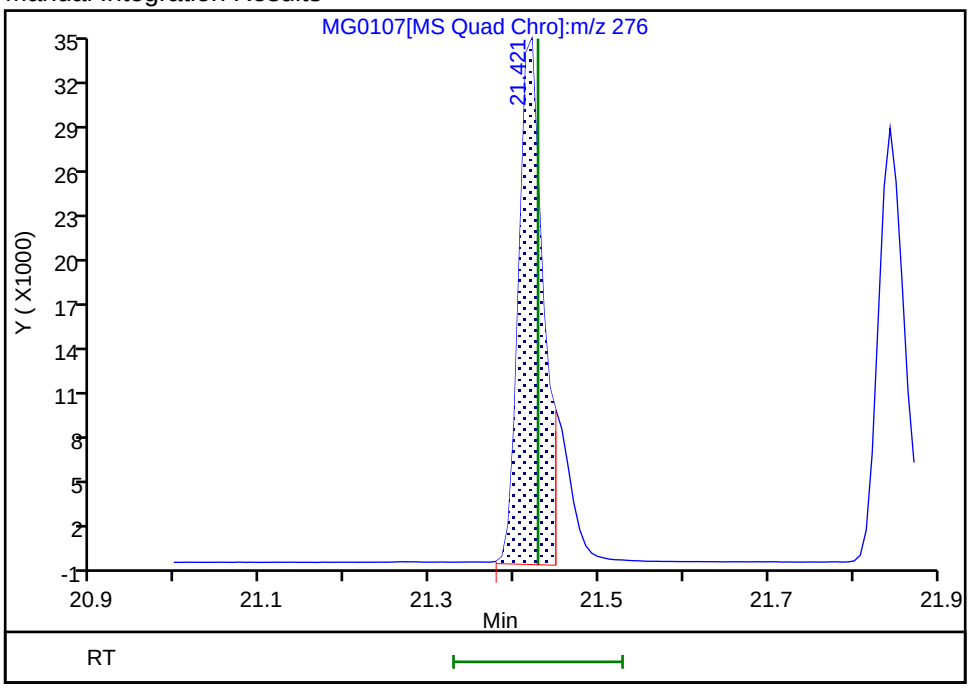
Processing Integration Results

RT: 21.42
Area: 82193
Amount: 0.280047
Amount Units: ug/ml



Manual Integration Results

RT: 21.42
Area: 67751
Amount: 0.230841
Amount Units: ug/ml



Reviewer: gamblerj, 05-Jul-2021 05:40:36

Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP21585 Start Date: 06/03/2021 08:59

Analysis Batch Number: 133561 End Date: 06/03/2021 18:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-133561/1		06/03/2021 08:59	1	MF0160.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-133561/2		06/03/2021 09:18	1	MF0161.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-133561/3		06/03/2021 09:48	1	MF0162.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-133561/4		06/03/2021 10:19	1	MF0163.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-133561/5		06/03/2021 10:49	1	MF0164.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-133561/6		06/03/2021 11:20	1	MF0165.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-133561/7		06/03/2021 11:51	1	MF0166.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-133561/8		06/03/2021 12:22	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-133561/9		06/03/2021 12:52	1	MF0168.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 13:23	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 13:53	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 14:24	100		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 14:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 15:25	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 15:56	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 16:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 16:57	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 17:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 17:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/03/2021 18:29	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP21585 Start Date: 06/29/2021 17:25

Analysis Batch Number: 143507 End Date: 06/30/2021 02:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-143507/1		06/29/2021 17:25	1	MF2100.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-143507/2		06/29/2021 18:47	1	MF2101a.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-143125/2-A		06/29/2021 20:19	1	MF2102.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-143125/1-A		06/29/2021 20:50	1	MF2103.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/29/2021 21:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/29/2021 21:51	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/29/2021 22:22	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/29/2021 22:53	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/29/2021 23:24	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/29/2021 23:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 00:25	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 00:56	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 01:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 02:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 02:59	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP21585 Start Date: 06/30/2021 20:32

Analysis Batch Number: 143973 End Date: 07/01/2021 07:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-143973/1		06/30/2021 20:32	1	MF2200b.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-143973/2		06/30/2021 20:53	1	MF2201b.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-143667/1-A		06/30/2021 21:54	1	MF2202.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-143667/2-A		06/30/2021 22:25	1	MF2203.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 22:56	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 23:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 23:57	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 00:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 00:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 01:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 02:00	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-6	MW-7S-20210623	07/01/2021 03:01	1	MF2212.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-7	MW-7D-20210623	07/01/2021 03:32	1	MF2213.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-8	MW-14S-20210623	07/01/2021 04:02	1	MF2214.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-9	MW-14D-20210623	07/01/2021 04:33	1	MF2215.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-10	MW-12S-20210623	07/01/2021 05:04	1	MF2216.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-11	MW-12D-20210623	07/01/2021 05:34	1	MF2217.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-12	MW-11S-20210623	07/01/2021 06:05	1	MF2218.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-13	MW-11D-20210623	07/01/2021 06:36	1	MF2219.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 07:06	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 07:37	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP21585 Start Date: 07/01/2021 21:28

Analysis Batch Number: 144441 End Date: 07/02/2021 03:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-144441/1		07/01/2021 21:28	1	MG0010.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-144441/2		07/01/2021 21:45	1	MG0011.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 22:27	10		DB-5MS 30m 0.25 0.25(mm)
410-45105-12 DL	MW-11S-20210623 DL	07/01/2021 22:57	10	MG0013.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 23:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 23:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 00:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 01:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 01:31	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 02:01	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-1	MW-1-20210622	07/02/2021 02:32	1	MG0020.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-2	MW-10S-20210622	07/02/2021 03:03	1	MG0021.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-3	MW-10D-20210622	07/02/2021 03:33	1	MG0022.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP21585 Start Date: 07/02/2021 10:43

Analysis Batch Number: 144775 End Date: 07/02/2021 22:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-144775/1		07/02/2021 10:43	1	MG0100.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-144775/2		07/02/2021 11:05	1	MG0101.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 11:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 12:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 13:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 13:31	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-5 MS	MW-8D-20210623 MS	07/02/2021 14:01	1	MG0106.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-5 MSD	MW-8D-20210623 MSD	07/02/2021 14:32	1	MG0107.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-2 RE	MW-10S-20210622 RE	07/02/2021 15:03	1	MG0121.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-3 RE	MW-10D-20210622 RE	07/02/2021 15:34	1	MG0122.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 16:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 16:35	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 17:06	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 17:36	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 18:07	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 18:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 19:09	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 19:40	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 20:10	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 20:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 21:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 21:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 22:13	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP21585 Start Date: 07/06/2021 04:22

Analysis Batch Number: 145121 End Date: 07/06/2021 15:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-145121/1		07/06/2021 04:22	1	MG0200.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-145121/2		07/06/2021 04:42	1	MG0201.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 05:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 06:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 06:45	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 07:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 07:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 08:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 08:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 09:18	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 09:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 10:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 11:52	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-5	MW-8D-20210623	07/06/2021 12:23	1	MG0226.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 12:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 13:25	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 13:56	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 14:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 14:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 15:29	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP23263 Start Date: 06/22/2021 05:58

Analysis Batch Number: 140413 End Date: 06/22/2021 10:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-140413/1		06/22/2021 05:58	1	NF0900.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-140413/2		06/22/2021 06:25	1	NF0901.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-140413/3		06/22/2021 07:12	1	NF0902.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-140413/4		06/22/2021 07:42	1	NF0903.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-140413/5		06/22/2021 08:12	1	NF0904.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-140413/6		06/22/2021 08:42	1	NF0905.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-140413/7		06/22/2021 09:12	1	NF0906.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-140413/8		06/22/2021 09:42	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-140413/9		06/22/2021 10:12	1	NF0908.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-140413/10		06/22/2021 10:42	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP23263 Start Date: 06/30/2021 18:30

Analysis Batch Number: 143979 End Date: 07/01/2021 06:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-143979/1		06/30/2021 18:30	1	NF1700a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-143979/2		06/30/2021 18:52	1	NF1701a.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-143664/1-A		06/30/2021 20:12	1	NF1702.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-143664/2-A		06/30/2021 20:42	1	NF1703.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 21:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 21:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 22:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 22:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 23:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/30/2021 23:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 00:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 00:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 01:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 01:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 02:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 02:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 03:10	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 03:40	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-4	MW-8S-20210623	07/01/2021 04:10	1	NF1718.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 04:40	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 05:10	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 05:40	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 06:10	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP23263 Start Date: 07/01/2021 08:04

Analysis Batch Number: 144210 End Date: 07/01/2021 17:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-144210/1		07/01/2021 08:04	1	NG0000.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-144210/2		07/01/2021 08:27	1	NG0001.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-143961/1-A		07/01/2021 09:08	1	NG0002.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-143961/2-A		07/01/2021 09:38	1	NG0003.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-143956/1-A		07/01/2021 10:08	1	NG0004.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-143956/2-A		07/01/2021 10:38	1	NG0005.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 11:08	20		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 11:38	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 12:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 12:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 13:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 15:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 15:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 16:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 16:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 17:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 17:38	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP23263 Start Date: 07/01/2021 18:54

Analysis Batch Number: 144525 End Date: 07/02/2021 06:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-144525/1		07/01/2021 18:54	1	NG0100.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-144525/2		07/01/2021 19:13	1	NG0101.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 20:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 21:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 21:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 22:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 22:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 23:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/01/2021 23:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 00:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 00:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 01:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 01:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 02:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 02:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 03:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 03:41	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-1 RE	MW-1-20210622 RE	07/02/2021 04:11	1	NG0117.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 04:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 05:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 05:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 06:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/02/2021 06:41	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP23263 Start Date: 07/05/2021 08:25

Analysis Batch Number: 145058 End Date: 07/05/2021 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-145058/1		07/05/2021 08:25	1	NG0260.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-145058/2		07/05/2021 08:44	1	NG0261.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-144459/1-A		07/05/2021 09:18	1	NG0262.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-144459/2-A		07/05/2021 09:48	1	NG0263.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 10:18	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 10:48	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 11:18	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 11:48	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 12:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 12:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 13:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 13:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 14:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 14:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 15:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 15:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 16:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 16:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 17:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 17:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 18:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 18:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 19:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/05/2021 19:46	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-4 RE	MW-8S-20210623 RE	07/05/2021 20:16	1	NG0284.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45105-1

SDG No.:

Instrument ID: HP23263 Start Date: 07/06/2021 05:55

Analysis Batch Number: 145132 End Date: 07/06/2021 16:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-145132/1		07/06/2021 05:55	1	NG0370.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-145132/2		07/06/2021 06:14	1	NG0371.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 06:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 07:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 07:59	1		DB-5MS 30m 0.25 0.25(mm)
410-45105-14	MW-4S-20210624	07/06/2021 08:29	1	NG0375.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-14 DL	MW-4S-20210624 DL	07/06/2021 08:59	10	NG0376.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-15	MW-4D-20210624	07/06/2021 09:29	1	NG0377.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-16	MW-3-20210624	07/06/2021 09:59	1	NG0378.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-16 DL	MW-3-20210624 DL	07/06/2021 10:29	10	NG0379.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-17	MW-13S-20210624	07/06/2021 10:59	1	NG0380.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-17 DL	MW-13S-20210624 DL	07/06/2021 11:29	20	NG0381.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-18	MW-13D-20210624	07/06/2021 11:59	1	NG0382.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-19	FB-20210624	07/06/2021 12:28	1	NG0383.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-20	DUP-20210624	07/06/2021 12:58	1	NG0384.D	DB-5MS 30m 0.25 0.25(mm)
410-45105-20 DL	DUP-20210624 DL	07/06/2021 13:28	10	NG0385.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 13:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 14:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 14:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 15:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 15:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		07/06/2021 16:29	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143125 Batch Start Date: 06/29/21 09:35 Batch Analyst: Reina, Robert

Batch Method: 3510C Batch End Date: 06/29/21 14:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-143125/1		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
LCS 410-143125/2		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
410-45105-A-1	MW-1-20210622	3510C, 8270D SIM	T	414.21 g	168.20 g	246 mL	1 mL	N/A SU	>11 SU
410-45105-A-2	MW-10S-20210622	3510C, 8270D SIM	T	393.10 g	168.29 g	224.8 mL	1 mL	N/A SU	>11 SU
410-45105-A-3	MW-10D-20210622	3510C, 8270D SIM	T	407.86 g	168.15 g	239.7 mL	1 mL	N/A SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
MB 410-143125/1		3510C, 8270D SIM		<2 SU	1 mL		Tap H2O		
LCS 410-143125/2		3510C, 8270D SIM		<2 SU	1 mL	0.25 mL	Tap H2O		
410-45105-A-1	MW-1-20210622	3510C, 8270D SIM	T	<2 SU	1 mL		Amber		
410-45105-A-2	MW-10S-20210622	3510C, 8270D SIM	T	<2 SU	1 mL		Pale Yellow		
410-45105-A-3	MW-10D-20210622	3510C, 8270D SIM	T	<2 SU	1 mL		Clear		

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143125 Batch Start Date: 06/29/21 09:35 Batch Analyst: Reina, Robert

Batch Method: 3510C Batch End Date: 06/29/21 14:15

Batch Notes	
Acid Used for pH Adjustment ID	H2SO4-210524
Balance ID	25996
Base Used to Adjust pH ID	NaOH-4012G23
Analyst ID - Concentration	RSR34942
Concentration 1 Corrected Temperature	80 Degrees C
Equipment ID - Concentration 1	Rapid Vap 3, 1 ,4
Exchange Solvent ID	MeCl2-212643
Analyst ID - Extraction	RSR34942, SLR39002
Na2SO4 ID	21176A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	MeCl2-212643
Analyst ID - Spike Analyst	RSR34942
Analyst ID - Spike Witness Analyst	SLR39002
Reagent Water ID	Tap H2O-ELLE

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143664 Batch Start Date: 06/30/21 09:42 Batch Analyst: Reina, Robert

Batch Method: 3510C Batch End Date: 06/30/21 13:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-143664/1		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
LCS 410-143664/2		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
410-45105-A-4	MW-8S-20210623	3510C, 8270D SIM	T	405.99 g	166.71 g	239.3 mL	1 mL	N/A SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
MB 410-143664/1		3510C, 8270D SIM		<2 SU	1 mL		Tap H2O		
LCS 410-143664/2		3510C, 8270D SIM		<2 SU	1 mL	0.25 mL	Tap H2O		
410-45105-A-4	MW-8S-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Yellow		

Batch Notes	
Acid Used for pH Adjustment ID	H2SO4: 210524
Balance ID	25996
Base Used to Adjust pH ID	NaOH: 4012G23
Analyst ID - Concentration	RSR34942
Concentration 1 Corrected Temperature	80 Degrees C
Equipment ID - Concentration 1	Rapid Vap: 1, 2, 4
Exchange Solvent ID	MeCl2: 212643
Analyst ID - Extraction	RSR34942
Na2SO4 ID	21179A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	MeCl2: 212643
Analyst ID - Spike Analyst	RSR34942
Analyst ID - Spike Witness Analyst	SLR39002
Reagent Water ID	Tap H2O: ELLE

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143667 Batch Start Date: 06/30/21 09:42 Batch Analyst: Reina, Robert

Batch Method: 3510C Batch End Date: 06/30/21 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-143667/1		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
LCS 410-143667/2		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
410-45105-A-6	MW-7S-20210623	3510C, 8270D SIM	T	410.47 g	167.16 g	243.3 mL	1 mL	N/A SU	>11 SU
410-45105-A-7	MW-7D-20210623	3510C, 8270D SIM	T	413.68 g	168.20 g	245.5 mL	1 mL	N/A SU	>11 SU
410-45105-A-8	MW-14S-20210623	3510C, 8270D SIM	T	408.11 g	167.70 g	240.4 mL	1 mL	N/A SU	>11 SU
410-45105-A-9	MW-14D-20210623	3510C, 8270D SIM	T	409.06 g	166.80 g	242.3 mL	1 mL	N/A SU	>11 SU
410-45105-A-10	MW-12S-20210623	3510C, 8270D SIM	T	407.92 g	166.79 g	241.1 mL	1 mL	N/A SU	>11 SU
410-45105-A-11	MW-12D-20210623	3510C, 8270D SIM	T	399.83 g	164.89 g	234.9 mL	1 mL	N/A SU	>11 SU
410-45105-A-12	MW-11S-20210623	3510C, 8270D SIM	T	407.13 g	166.58 g	240.6 mL	1 mL	N/A SU	>11 SU
410-45105-A-13	MW-11D-20210623	3510C, 8270D SIM	T	413.37 g	166.74 g	246.6 mL	1 mL	N/A SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
MB 410-143667/1		3510C, 8270D SIM		<2 SU	1 mL		Tap H2O		
LCS 410-143667/2		3510C, 8270D SIM		<2 SU	1 mL	0.25 mL	Tap H2O		
410-45105-A-6	MW-7S-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Yellow, cloudy		
410-45105-A-7	MW-7D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Clear		
410-45105-A-8	MW-14S-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Clear		
410-45105-A-9	MW-14D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Yellow, cloudy		
410-45105-A-10	MW-12S-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Clear		
410-45105-A-11	MW-12D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Clear		
410-45105-A-12	MW-11S-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Yellow		

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143667 Batch Start Date: 06/30/21 09:42 Batch Analyst: Reina, Robert

Batch Method: 3510C Batch End Date: 06/30/21 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
410-45105-A-13	MW-11D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		Cloudy		

Batch Notes	
Acid Used for pH Adjustment ID	H2SO4: 210524
Balance ID	25996
Base Used to Adjust pH ID	NaOH: 4012G23
Analyst ID - Concentration	RSR34942
Concentration 1 Corrected Temperature	80 Degrees C
Equipment ID - Concentration 1	Rapid Vap: 5, 3, 1
Exchange Solvent ID	MeCl2: 212643
Analyst ID - Extraction	RSR34942, SLR39002
Na2SO4 ID	21179A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	MeCl2: 212643
Analyst ID - Spike Analyst	RSR34942
Analyst ID - Spike Witness Analyst	SLR39002
Reagent Water ID	Tap H2O: ELLE

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143956 Batch Start Date: 06/30/21 17:15 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 06/30/21 22:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-143956/1		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
LCS 410-143956/2		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
410-45105-A-5 MS	MW-8D-20210623	3510C, 8270D SIM	T	410.48 g	166.90 g	243.6 mL	1 mL	n/a SU	>11 SU
410-45105-A-5 MSD	MW-8D-20210623	3510C, 8270D SIM	T	407.74 g	167.59 g	240.2 mL	1 mL	n/a SU	>11 SU
410-45105-A-5	MW-8D-20210623	3510C, 8270D SIM	T	409.81 g	168.25 g	241.6 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
MB 410-143956/1		3510C, 8270D SIM		<2 SU	1 mL		tap water; split with batch 143960		
LCS 410-143956/2		3510C, 8270D SIM		<2 SU	1 mL	0.25 mL	tap water		
410-45105-A-5 MS	MW-8D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL	0.25 mL	clear		
410-45105-A-5 MSD	MW-8D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL	0.25 mL	clear		
410-45105-A-5	MW-8D-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		clear		

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143956 Batch Start Date: 06/30/21 17:15 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 06/30/21 22:35

Batch Notes	
Acid Used for pH Adjustment ID	sulfuric acid 210524
Balance ID	25996
Base Used to Adjust pH ID	naoh 4012G23
Batch Comment	split with batch 143960
Analyst ID - Concentration	28104, 39576
Equipment ID - Concentration 1	r vap 3, 1
Analyst ID - Extraction	28104, 39576
Na2SO4 ID	21179A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	mecl2 212643
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	28104
Concentration 1 Uncorrected Temperature	80 Degrees C

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143961 Batch Start Date: 06/30/21 17:15 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 06/30/21 22:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-143961/1		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
LCS 410-143961/2		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
410-45105-B-1	MW-1-20210622	3510C, 8270D SIM	T	410.15 g	167.08 g	243.1 mL	1 mL	n/a SU	>11 SU
410-45105-B-2	MW-10S-20210622	3510C, 8270D SIM	T	408.87 g	168.12 g	240.8 mL	1 mL	n/a SU	>11 SU
410-45105-B-3	MW-10D-20210622	3510C, 8270D SIM	T	408.51 g	166.85 g	241.7 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
MB 410-143961/1		3510C, 8270D SIM		<2 SU	1 mL		tap water		
LCS 410-143961/2		3510C, 8270D SIM		<2 SU	1 mL	0.25 mL	tap water		
410-45105-B-1	MW-1-20210622	3510C, 8270D SIM	T	<2 SU	1 mL		tan		
410-45105-B-2	MW-10S-20210622	3510C, 8270D SIM	T	<2 SU	1 mL		tan tint		
410-45105-B-3	MW-10D-20210622	3510C, 8270D SIM	T	<2 SU	1 mL		clear		

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 143961 Batch Start Date: 06/30/21 17:15 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 06/30/21 22:38

Batch Notes	
Acid Used for pH Adjustment ID	sulfuric acid 210524
Balance ID	25996
Base Used to Adjust pH ID	naoh 4012G23
Analyst ID - Concentration	28104, 39576
Equipment ID - Concentration 1	r vap 2, 9
Analyst ID - Extraction	28104, 39576
Na2SO4 ID	21179A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	mecl2 212643
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	28104
Concentration 1 Uncorrected Temperature	80 Degrees C

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 144459 Batch Start Date: 07/01/21 18:00 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 07/01/21 23:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-144459/1		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
LCS 410-144459/2		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
410-45105-B-4	MW-8S-20210623	3510C, 8270D SIM	T	413.48 g	168.05 g	245.4 mL	1 mL	n/a SU	>11 SU
410-45105-A-14	MW-4S-20210624	3510C, 8270D SIM	T	407.52 g	166.60 g	240.9 mL	1 mL	n/a SU	>11 SU
410-45105-A-15	MW-4D-20210624	3510C, 8270D SIM	T	409.65 g	166.59 g	243.1 mL	1 mL	n/a SU	>11 SU
410-45105-A-16	MW-3-20210624	3510C, 8270D SIM	T	409.00 g	165.39 g	243.6 mL	1 mL	n/a SU	>11 SU
410-45105-A-17	MW-13S-20210624	3510C, 8270D SIM	T	410.94 g	166.47 g	244.5 mL	1 mL	n/a SU	>11 SU
410-45105-A-18	MW-13D-20210624	3510C, 8270D SIM	T	413.26 g	167.37 g	245.9 mL	1 mL	n/a SU	>11 SU
410-45105-A-19	FB-20210624	3510C, 8270D SIM	T	402.15 g	166.61 g	235.5 mL	1 mL	n/a SU	>11 SU
410-45105-A-20	DUP-20210624	3510C, 8270D SIM	T	411.01 g	167.15 g	243.9 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
MB 410-144459/1		3510C, 8270D SIM		<2 SU	1 mL		tap water		
LCS 410-144459/2		3510C, 8270D SIM		<2 SU	1 mL	0.25 mL	tap water		
410-45105-B-4	MW-8S-20210623	3510C, 8270D SIM	T	<2 SU	1 mL		tan		
410-45105-A-14	MW-4S-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		tan tint		
410-45105-A-15	MW-4D-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		clear		
410-45105-A-16	MW-3-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		tan		
410-45105-A-17	MW-13S-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		tan cloudy		
410-45105-A-18	MW-13D-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		clear		
410-45105-A-19	FB-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		clear		

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 Lancaster Laboratorie Job No.: 410-45105-1

SDG No.:

Batch Number: 144459 Batch Start Date: 07/01/21 18:00 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 07/01/21 23:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00039	OP_SIMLCS_MS 00040	AnalysisComment		
410-45105-A-20	DUP-20210624	3510C, 8270D SIM	T	<2 SU	1 mL		tan tint		

Batch Notes	
Acid Used for pH Adjustment ID	h2so4 210524
Balance ID	25996
Base Used to Adjust pH ID	naoh 4012G23
Analyst ID - Concentration	28104, 39576
Equipment ID - Concentration 1	r vap 2, 1, 3
Analyst ID - Extraction	28104, 39576
Na2SO4 ID	21179A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	mecl2 212643
Prep Solvent Volume Used	90
Analyst ID - Spike Analyst	28104
Concentration 1 Uncorrected Temperature	80 Degrees C

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

v, LLC

Chain of Custody Record

eurofins Environment Testing America

410-45105 Chain of Custody

Client Contact: Mr. James Marolda	Sampler: AFV/MHM	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-27030-5955.1
Company: Brown and Caldwell	Phone: 201-574-4713	E-Mail: Barbara.Weyandt@eurofinset.com	State of Origin: NY	Page: Page 1 of 3
Address: 500 North Franklin Turnpike Suite 306	PWSID:	Due Date Requested:	Analysis Requested	Job #:
City: Ramsey		TAT Requested (days): Standard		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)
State, Zip: NJ, 07446		Compliance Project: Δ Yes Δ No		
Phone: 201-574-4713(Tel)		PO #: 153201		Other:
Email: jmarolda@brwncald.com		WO #:		
Project Name: Patchogue, NY		Project #: 41002571		
Site: Patchogue, NY		SSOW#:		

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_SIM - 16 PAHs	8260C - BTEX, MTBE	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	N	X	X		
MW-1-20210622	06/22/21	1132	G	GW	N	N	X	X		
MW-10S-20210622		1325	G	GW	N	N	X	X		
MW-10D-20210622		1410	G	GW	N	N	X	X		
MW-8S-20210623	06/23/21	0912	G	GW	N	N	X	X		
MW-8D-20210623 (MS/MSD)		0949	G	GW	N	Y	X	X		
MW-7S-20210623		1049	G	GW	N	N	X	X		
MW-7D-20210623		1129	G	GW	N	N	X	X		
MW-14S-20210623		1336	G	GW	N	N	X	X		
MW-14D-20210623		1415	G	GW	N	N	X	X		
MW-12S-20210623		1506	G	GW	N	N	X	X		
MW-12D-20210623		1546	G	GW	N	N	X	X		

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) NYSDEC Cat. B

Special Instructions/QC Requirements: EQuIS EDD

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 06/25/21 1530	Company: BC	Received by:	Date/Time: 6/25/21 15:30	Company: ELLE		
Relinquished by:	Date/Time: 6/25/21 18:55	Company: BC/ELLE	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 06/26/21 9:14	Company: ELLE		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.2				

T1

2.5 2.5 5.2 Ver: 11/01/2020 07/12/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: AFV / MHM	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-27030-5955 2
Client Contact: Mr. James Marolda	Phone: 201-574-4713	E-Mail: Barbara.Weyandt@eurofinset.com	State of Origin: NY	Page: Page 2 of 3
Company: Brown and Caldwell	PWSID:			Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:			
City: Ramsey	TAT Requested (days): Standard			
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No			
Phone: 201-574-4713(Tel)	PO #: 153201			
Email: jmarolda@brwncald.com	WO #:			
Project Name: Patchogue, NY	Project #: 41002571			
Site: Patchogue, NY	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)	8270D_SIM - 16 PAHs	8260C - BTEX, MTBE	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	A			
MW-11S-20210623	6/23/21	1633	G	GW	N	N	X	X	
MW-11D-20210623	↓	1719	G	GW	N	N	X	X	
MW-4S-20210624	6/24/21	0853	G	GW	N	N	X	X	
MW-4D-20210624		0933	G	GW			X	X	
MW-3-20210624		1014	G	GW			X	X	
MW-13S-20210624		1053	G	GW			X	X	
MW-13D-20210624		1129	G	GW			X	X	
FB-20210624		0915	G	~~DW~~			X	X	DI
DUP-20210624	↓	9999	G	GW			X	X	
Trip-Blank	TB	TB	TB	TB	N	N		X	

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) NYSDEC Cat. B

Special Instructions/QC Requirements: BC Equis EDD

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
MAX MARONEY	06/25/21 1530	USC		6/25/21 15:30	ELLE
	6/25/21 18:55	ELLE			
				06/25/21 19:14	ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5 - 5.0 ; 4.0 - 5.6

Ver: 11/01/2020

07/12/2021

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-45105-1

Login Number: 45105
List Number: 1
Creator: Lugardo, Tamara

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received 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	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

Appendix C: Data Validator Qualifications

Jaclyn Lauer, P.E. S.C.

Experience Summary

Jaclyn Lauer started at Brown and Caldwell in the Columbia, SC office working with infrastructure, GIS, and condition asset management for municipal water and wastewater entities including sewer system evaluation studies. She then moved to the Atlanta, GA office where she worked many private sector clients and gained experience in data evaluation and assessment, compliance and permitting, project management, local limits evaluation studies, and database management. Ms. Lauer now works remotely in Lander, WY on many projects nationwide. In addition, she has led treatability laboratory studies and assisted in compliance reporting for a wide variety of clients. While at Clemson, she worked in the environmental laboratory for two years.

Assignment

Senior Engineer

Education

B.S. Environmental Engineering, Clemson University 2013

M.S. Environmental Engineering, Clemson University 2014

Clemson, SC

Registration

P.E., South Carolina #34670

Experience

5 years

Joined Firm

2014

Relevant Expertise

- *Data Evaluation*
- *Data Validation*
- *Data Usability*
- *Compliance and Permitting*
- *Infrastructure*
- *Water/wastewater Process Design*
- *GIS*
- *Field Work*
- *Mobile Data Collection*

Memberships

- *American Water Works Association (AWWA)*

Trainings

- *HAZWOPER 40 Hour*
- *Confined Space Certified*
- *Industrial Hygiene Health and Safety Certified*
- *Wetland Delineation Certified*

Publications

- *Lauer, Jaclyn, "The Use of Oxidants for NDMA Precursor Deactivation in Wastewater Treatment" (2014). All Theses. Paper 1905. http://tigerprints.clemson.edu/all_theses/1905*

Data Validation and Verification, Nationwide

Multiple On-going projects. Provides data validation for level I through IV laboratory reports including air, surface water, groundwater, soil, and soil gas samples. Verification, usability, and lab data management are provided for specialized projects. Provides training and mentorship to mid-level employees for data analysis. Trainings specifically for Organics and Inorganics along with PFAS and Explosives.

Environmental

Various Sampling, Multiple Clients, GA, FL, AL, OH, and SC

Field Scientist and Field Manager. Duties involve the sampling of air, surface water, groundwater, and subsurface at both hazardous and non-hazardous waste sites for biological, chemical, and physical parameters, and the coordination and safety of said sampling events. Conducted daily health and safety meetings discussing potential hazards of each site and summarizing health and safety plans to internal staff and external subcontractors. Field methods for collecting subsurface samples have included direct push drilling, hollow-stem augering, and various groundwater sampling techniques.

Ordot Landfill Closure, Guam

Project Engineer. Responsibilities include aiding in laboratory management. This includes sample orders, report validation, database management, and data usability. Also, assisted in establishing background concentrations and calculations. [2018 to present]

Vulcan Project Management, Georgia

Project Engineer. Responsibilities include aiding in on-call services for Vulcan for compliance and permitting, Stormwater, site surveying, and environmental assessments. [2016 to present]

Project Manager. Worked for the Vulcan Stockbridge Facility in Stockbridge, Georgia on a movie set to help develop an environmentally safe way to remove fake snow from the quarry pit. Responsibilities include managing the cleanup team and project and working with Vulcan and the client, Marvel, to ensure the product was removed and reused. [2017]

Project Engineer. Responsibilities include updating all SWPPPs for each plant in the state of Georgia. This included updating maps and reports, site inspections, and dye testing. [2017]

Walmart Environmental Site Inspections, Multiple Locations, Southeastern United States

Site Inspector. Responsibilities include Nightly auditing for ongoing construction at Walmart across the Southeast. Audits included interior and

exterior environmental, health, and safety inspections working with the site's general contractor. [2016 to 2017]

Groundwater Sampling, Former Manufactured Gas Plant, Confidential Client, Jacksonville, Florida

Project Engineer. Sampling of the groundwater for chemical and physical parameters, and the coordination safety of sampling events, and LNAPL and DNAPL delineation. Conducted daily health and safety meetings discussing potential hazards of each site and summarizing HASPs to internal staff and external subcontractors. Field methods included using peristaltic pumping to effectively collect samples.

Wetland Delineations and Stream Assessments, Multiple Locations, Southeastern United States

Project Manager. Conducted routine delineations of wetlands on properties ranging from 1 to 880 acres utilizing U.S. Army Corps of Engineers (USACE) protocols. Multiple project sites located in Georgia, Tennessee, South Carolina, Alabama, and Florida. [2017–Present]

Well Development, Groundwater Investigation, Oversight, Soil Investigation and Vapor Intrusion Sampling, Confidential Client, Covington, Georgia

Project Engineer. Well development of both on site and residential monitoring wells using field methods that include peristaltic pumping, geo-sub pumping, and waterra pumping. Conducted vapor intrusion sampling in residential houses using Summa canisters, interacting with residents. [KM Fountain Inn SC Environmental,

HMTF Site Closure, University of Georgia, Athens, Georgia

Project Engineer. Collected soil samples with a hand auger, following careful sample collection methods and decontamination methods. Provided oversight for decontamination and cleanup of facility then verified with wipe sampling following sample collection methods. Helped draft the closure report and aided in quality control of the laboratory data. Provided follow up sampling and decontamination including wipe and soil sampling. [2016 to present]

Industrial Water Reuse

Start-Up and Compliance Services, Confidential Pharmaceutical Client, Georgia

Process Engineer. Jaclyn provided on-demand regulatory compliance support and WWTP start-up services and a Covington, Georgia pharmaceutical facility. This includes creation and updates to the Standard Operating Procedure, and preparation of an O&M manual and operator training for the wastewater pretreatment system, designed and constructed by BC. Jaclyn spent time onsite performing inspections and aiding facility operators.

Reclaimed Water POTW, Confidential Refinery, Texas

Process Engineer. Conducted a study to consider using 4 MGD of POTW effluent from the city's WWTP. Responsibilities include the assessment for the addition of disinfection at the refinery including types of disinfection, location, and design. Additionally, designed and performed bench scale breakpoint chlorination and THM formation study to assess the chlorine demand and formation of THM in the effluent POTW. The main task for disinfection with chlorine is to combat peak day ammonia (5 ppm) bleed through from the POTW needs to be treated to <0.1 ppm and control water quality from the city's POTW. [BC Project # 146640]

Municipal Wastewater

Calculation and Evaluation of Local Limits, Fulton County Department of Public Works, Cherokee County Water & Sewer Authority, and Dekalb County Department of Watershed Management, Georgia

Project Engineer. Performed all data gathering, calculations, and regulatory review of the local limits developed for the wastewater treatment facilities in Dekalb, Fulton, and Cherokee Counties. For Fulton County, Local limits were individually developed for Johns Creek, Big Creek, and Camp Creek to review the old limits for industrial pretreatment. For Dekalb County, reviewed industrial and commercial data to determine source of FOG and developed recommendations to address sewer corrosion. For Cherokee County, reviewed scenarios for anticipated growth and calculated local limits that would allow for such growth.

City of Flagstaff, Local Limits Development and Pretreatment Program Assessment

Project Engineer. Conducted an interim Industrial Pretreatment Local Limits Evaluation to assess current limits for BOD and TSS to determine whether the City could accommodate additional industrial wastewater from breweries. Developed recommendations for future limits to protect the City's facilities but not limits industrial users.

HRSD WO7.6 Regionalized Rehab Program, HRSD, Virginia Beach, Virginia

Project Engineer. Responsibilities includes development of rehabilitation scopes, cost estimates, post-rehab I/I reduction estimates, and adjustment of hydrologic parameters in selected rehabilitation catchments in the HRSD service area. The Hampton Roads Sanitation District (HRSD) has taken regional responsibility to implement the EPA/Virginia DEQ mandated wet weather management plan (RWWMP), including identification and rehabilitation of cost-effective inflow/infiltration sources [BC Project # 146162]

Rocky Branch Basin SSES, City of Columbia, Columbia, South Carolina

Project Engineer. Responsibilities include providing technical engineering support to the City of Columbia for a Sewer System Evaluation Study (SSES) of a portion of the City's sanitary sewer system to identify problems that may lead to sanitary sewer overflows (SSOs). This includes investigations that are intended to identify structural, operations and maintenance, and infiltration and inflow (I/I) related problems. A full update to the City of Columbia's GIS will be provided at the end of the assessment. The intent of this project is to meet the requirements of the Continuing Sewer Assessment Program (CSAP) and the Infrastructure Rehabilitation Program (IRP) which are components of the Consent Decree under which the City is performing this work.

Appendix D: Data Usability Summary Report

DATA USABILITY SUMMARY REPORT
PATCHOGUE FORMER MGP SITE

Client: Brown and Caldwell, Albany, New York
SDGs: 410-45105-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: July 21, 2021

Client Sample ID	Laboratory Sample ID	Matrix
MW-1-20210622	410-45105-1	Groundwater
MW-10S-20210622	410-45105-2	Groundwater
MW-10D-20210622	410-45105-3	Groundwater
MW-8S-20210623	410-45105-4	Groundwater
MW-8D-20210623	410-45105-5	Groundwater
MW-7S-20210623	410-45105-6	Groundwater
MW-7D-20210623	410-45105-7	Groundwater
MW-14S-20210623	410-45105-8	Groundwater
MW-14D-20210623	410-45105-9	Groundwater
MW-12S-20210623	410-45105-10	Groundwater
MW-12D-20210623	410-45105-11	Groundwater
MW-11S-20210623	410-45105-12	Groundwater
MW-11D-20210623	410-45105-13	Groundwater
MW-4S-20210624	410-45105-14	Groundwater
MW-4D-20210624	410-45105-15	Groundwater
MW-3-20210624	410-45105-16	Groundwater
MW-13S-20210624	410-45105-17	Groundwater
MW-13D-20210624	410-45105-18	Groundwater
FB-20210624	410-45105-19	Water
DUP-20210624	410-45105-20	Groundwater
TRIP-BLANK-20210622	410-45105-21	Water

Data validation was performed on the analytical data for twenty-one (21) samples collected on June 22 through 24, 2021 by Brown and Caldwell Associates at the Patchogue Site in New York. The samples were analyzed under the Environmental Protection Agency (USEPA) "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS), SW-846 Method 8020C", August 2006, "Test Methods for Evaluating Solid Wastes, SW-846 Method 8270D (SIM), February 2007" and "Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, Rev 3", December 1996. Specific method references are as follows:

Analysis	*Method References*
Volatile Organic Compounds (VOCs)	USEPA SW-846 SW8260C
Semi Volatile Organic Compounds (SVOCs)	USEPA SW-846 SW8270D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-34a, Revision 0, July 2015, Trace Volatile Data Validation;
- SOP Number HW-35a, Revision 0, June 2015, Semivolatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

- Data Completeness
- Holding times and sample preservation
- Field Duplicate Accuracy
- Internal Standard Area and RT
- Surrogates
- Laboratory Control Sample (LCS) recoveries
- Matric Spike and Matrix Spike Duplicate Samples
- Method and field blank contamination
- Initial and continuing calibration summaries
- Compound Quantitation
- Reporting Limits
- Sample comments and Quality Control Summaries

Overall Usability Issues:

Overall, the data is acceptable for the intended purposes. No analytical or quality issues were noted.

Holding Times

- Holding times were achieved for all analyses.

Field Duplicate Accuracy

- One duplicate was collected for this dataset. DUP-20210624 is the sample duplicate for MW-3-20210624. All relative percent differences were within control limits.

Internal Standard Areas

- All samples exhibited acceptable internal standard values.

Surrogates

- All samples exhibited acceptable surrogate recovery values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries with the following exception:
    - The LCS percent recovery for benzo[g,h,i]perylene was above control limits. Sample non-detections are not qualified.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- The MS/MSD samples were analyzed on MW-8D-20210623, and percent recoveries are within acceptable limits.

Method and Field Blanks

- The method blank had detections of benzo[a]anthracene, benzo[a]pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno[1,2,3-cd]pyrene, and pyrene in one or multiple analysis batches. Sample non-detections are not qualified. Associated sample detections less than five times the blank detection are qualified as estimated with limited detection, UJ, the MDL is raised to the sample concentration, and the RL is raised (never lowered) to five times the blank detection, reason code 2.
- The field blank had a detection of pyrene. Sample non-detections and the detections greater than five times the blank detection are not qualified. Associated sample detections less than five times the blank detection are qualified as estimated with limited detection, UJ, the MDL is raised to the sample concentration, and the RL is raised (never lowered) to five times the blank detection, reason code 7.

Initial Calibration

- All recoveries and/or correlation coefficient criteria were met.

Continuing Calibration

- All Percent Drift criteria were met.
- All recoveries and/or correlation coefficient criteria were met with one exception:
    - Method 8270D_SIM: The continuing calibration verification associated with batch 410-143979 recovered above the control limit for benzo[g,h,i]perylene and indeno[1,2,3-cd]pyrene. Associated sample non-detections are not qualified.

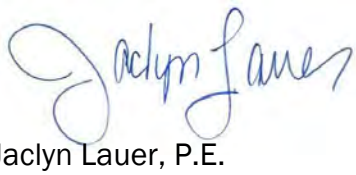
Compound Quantitation

- All sample detections detected above the MDL and below the RL are appropriately qualified as estimated, J, by the laboratory.

Reporting Limits

- MW-13S-20210624 was diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits are provided.
- All other laboratory reporting limits were met.

Please contact the undersigned if you have any questions or need further information.

Signed:  Dated: July 21, 2021

Jaclyn Lauer, P.E.
Senior Staff Engineer and Validator
Brown and Caldwell

Signed:  Dated: July 23, 2021

Corey Strauss
Senior Staff Geologist and Validator
Brown and Caldwell

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Reason Codes

1	Holding time violation
2	Method blank contamination
3	Surrogate recovery
4	MS/MSD recovery
5	MS/MSD precision outside limits
6	LCS recovery
7	Field blank contamination
8	Field duplicate precision outside limits
9	Other deficiencies (including cooler temperature)
A	Absence of supporting QC
S	ICV, CCV or column performance check problem
Y	Initial and continuing calibration blank problem
M	Interference check samples problem
O	Post digestion spike outside of 85-115%
F	MSA correlation coefficient <0.995, or MSA not done
G	Serial dilution problem
K	DFTPP or BFB tuning problem
Q	Initial calibration problem
X	Internal standard recovery problem
V	Second source standard calibration verification problem
L	Low bias
Z	Retention time problem
N	Counting time error (radionuclide chemistry)
W	Detector instability (radionuclide chemistry)
C	Co-elution of compounds
E	Value exceeds linear calibration range
I	Interferences present during analysis
T	Trace level compound, poor quantitation
P	1C/2C precision outside limits
B	LCS/LCSD precision outside limits
D	Lab Dup/Rep precision outside limits
H	High bias

Appendix E: Evaluation of Potential Impact to River from Site Constituents in Groundwater – 2020 Data

Appendix F

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the First Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the first groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure F-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene, ethylbenzene, xylenes and naphthalene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration in groundwater of three potentially mobile constituents (acenaphthene, fluorene and pyrene) were slightly above their respective applicable surface water quality criteria. Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i = Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: $A_i = (L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the March 2020 sampling event (see Figures F-2 through F-4). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table F-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment F-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of acenaphthene, fluorene and pyrene were developed using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for acenaphthene, fluorene and pyrene that are applicable to the various classes of fresh water.

Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Acenaphthene	A, A-S, AA, AA-S, B, C	--	5.3	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	48	Fish survival
	A, A-S, AA, AA-S	20	--	Aesthetics
Fluorene	A, A-S, AA, AA-S	--	50	Drinking water source
	A, A-S, AA, AA-S, B, C	--	0.54	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	4.8	Fish survival
Pyrene	A, A-S, AA, AA-S	--	50	Drinking water source
	A, A-S, AA, AA-S, B, C	--	4.6	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	42	Fish survival

Attachments F-2 through F-4 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Acenaphthene = 0.0033 µg/L
- Fluorene = 0.00050 µg/L
- Pyrene = 0.00127 µg/L

These conservatively-estimated (i.e., biased high) concentrations are three orders of magnitude below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentration of fluorene is below the analytical laboratory detection limits for this constituent. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE F-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

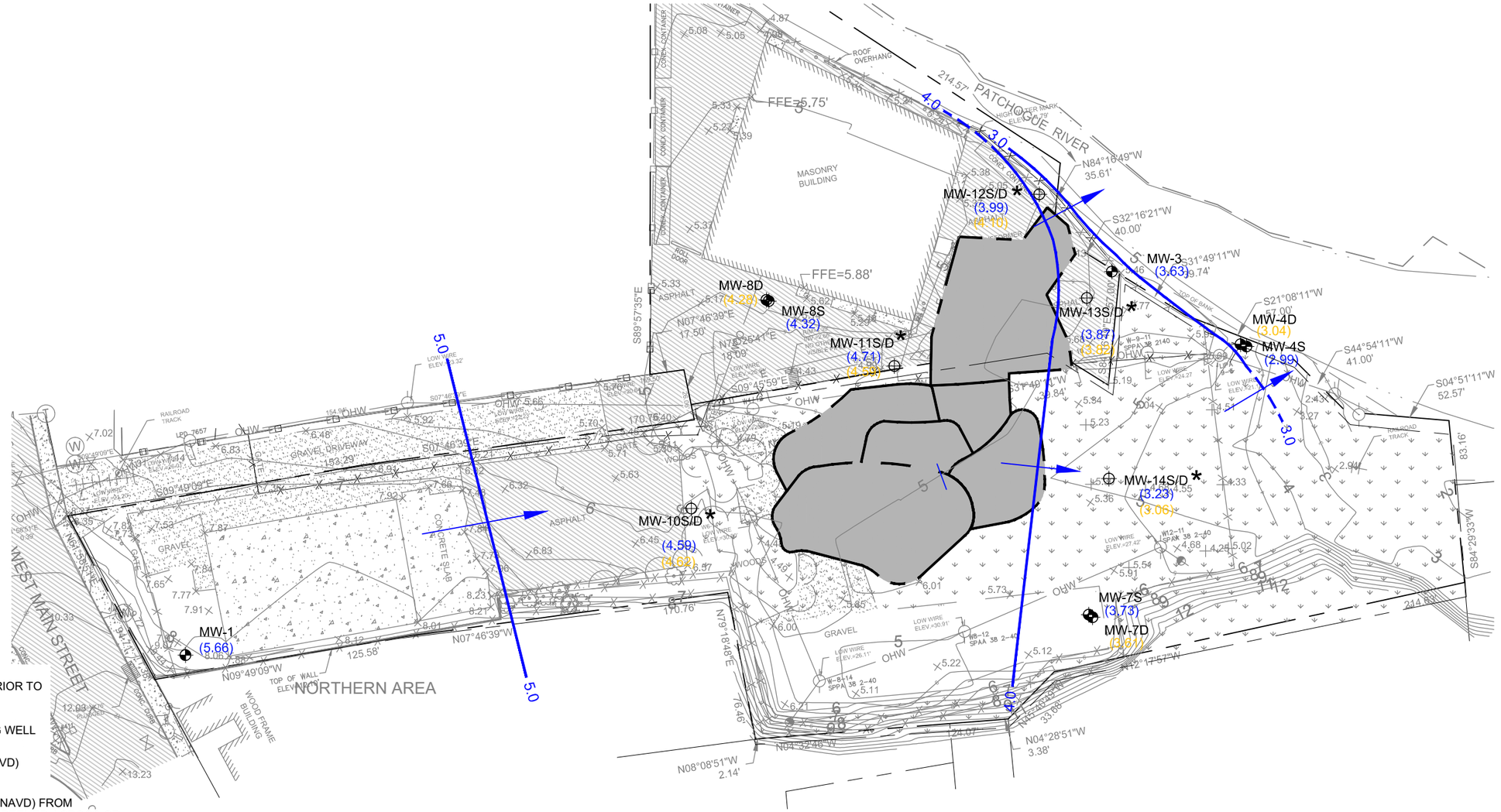
ft^3/s - cubic feet per second

Figures

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Mar2020) Plot Date: May 6, 2020 7:32 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- x x FENCE
- 10 TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- 4 WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (3.87) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE)
- (3.06) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- * HORIZONTAL LOCATION AND POSTED GROUNDWATER ELEVATION DATA IS APPROXIMATE, AS SURVEYING OF WELLS WILL BE PERFORMED FOLLOWING COMPLETION OF FINAL SITE RESTORATION ACTIVITIES.

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP MARCH 17, 2020

FIGURE

F-1

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_2_acenaphthene_March2020 Plot Date: May 29, 2020 10:20 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- 4 — WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 1 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- 12 — ACENAPHTHENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

MW-1 ND

MW-3 5

MW-4D 0.01J

MW-4S 12

MW-7D ND

MW-7S 0.08

MW-8D ND

MW-8S 0.09

MW-10S/D ND ND

MW-11S/D 56 0.06

MW-12S/D 0.10 ND

MW-13S/D 36 ND

MW-14S/D 0.4 ND

PATCHOGUE RIVER

WEST MAIN STREET

NORTHERN AREA

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

ACENAPHTHENE IN GROUNDWATER MARCH 2020

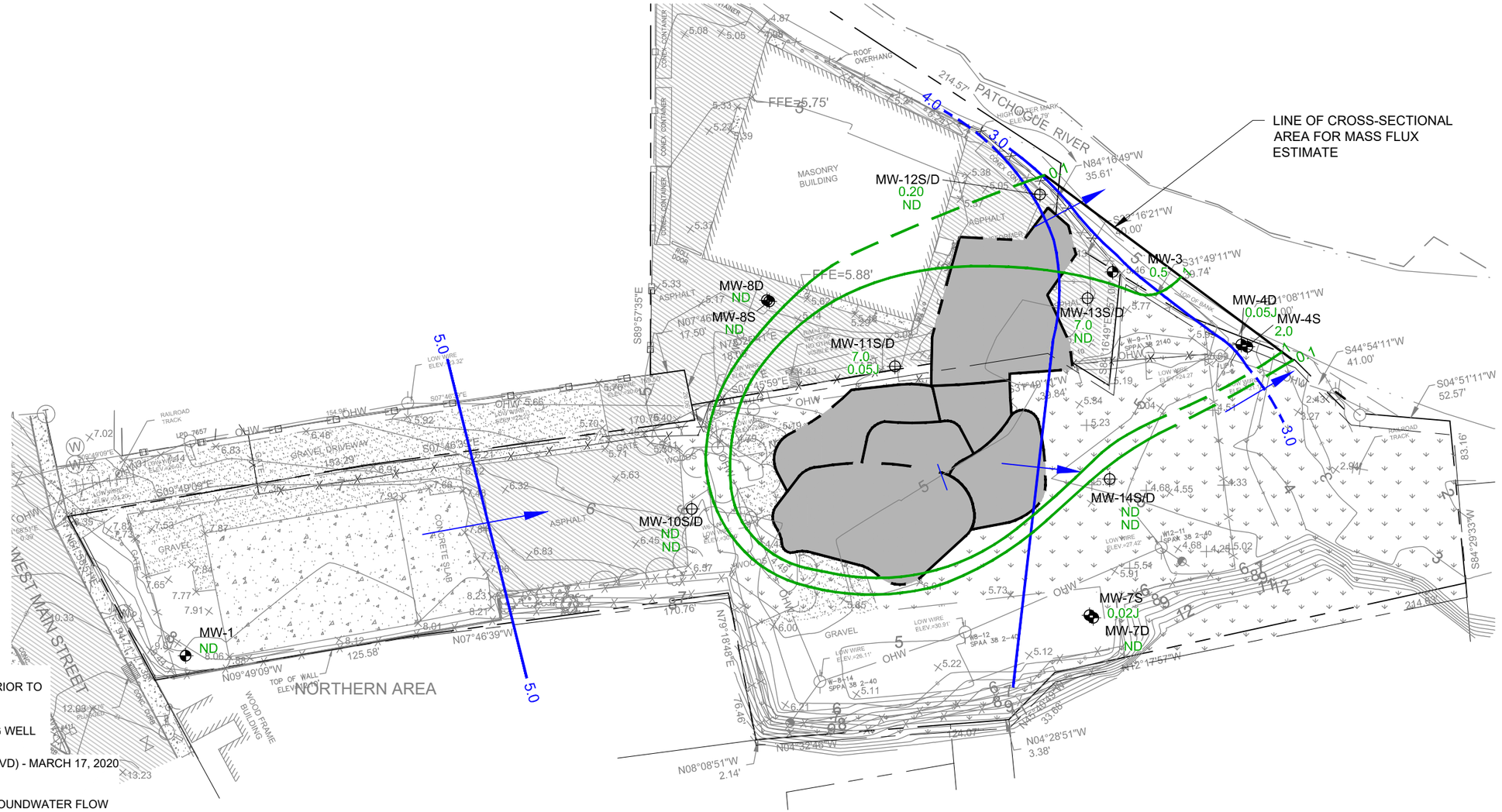
FIGURE

F-2

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_3_fluorene_March2020 Plot Date: May 29, 2020 10:23 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- 4 — WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 1 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- 0.5 — FLUORENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

FLUORENE IN GROUNDWATER MARCH 2020

FIGURE

F-3

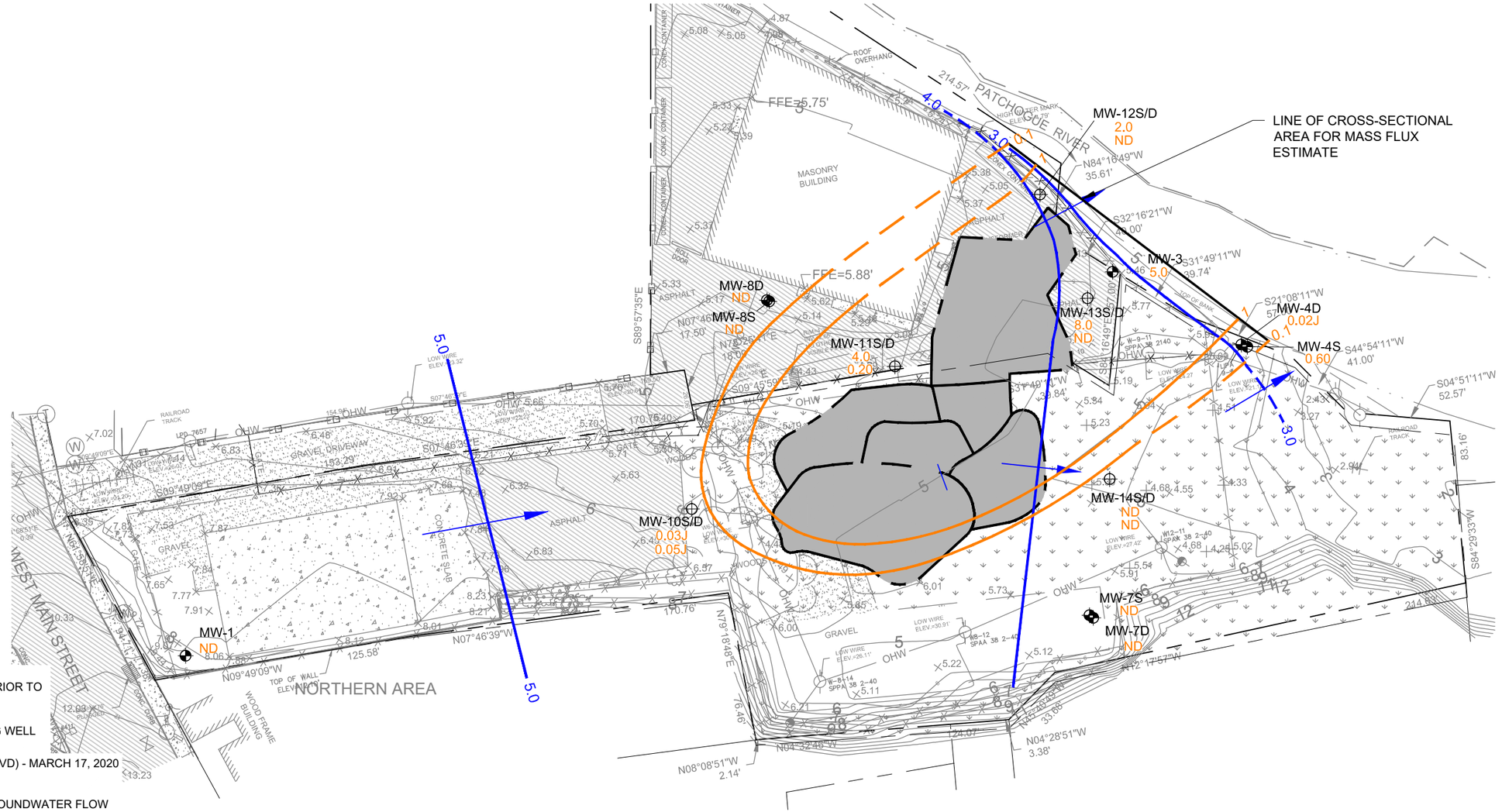
Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_4_pyrene_March2020 Plot Date: May 29, 2020 10:21 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- ESTIMATED CONCENTRATION
- NOT DETECTED



NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

PYRENE IN GROUNDWATER MARCH 2020

FIGURE

F-4

Attachments

probability x 2 log cycles

RECURRENCE INTERVAL (yrs)

1.1 2 5 10

99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)

0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99

PROBABILITY OF LARGER FLOW (%)

ATTACHMENT F-2
MASS FLUX CALCULATIONS - ACENAPHTHENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Acenaphthene (March 2020) **Figure No.** See Figure F-2

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Segment Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1	0.32	36	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	10	3.16	90	18
L =	36	ft =	1097.28	cm	Length of segment between selected contours [C]	12	10.95	45	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.5E-02	µg/s	4.8E-01	g/yr	0.00105 lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	3.16	µg/L =	0.003162278	µg/cm^3	Geometric mean concentration between selected contours
L =	90	ft =	2743.2	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.8E-01	µg/s	1.2E+01	g/yr	0.0262 lbs/yr

10-12 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	10.95	µg/L =	0.010954451	µg/cm^3	Geometric mean concentration between selected contours
L =	45	ft =	1371.6	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	6.5E-01	µg/s	2.1E+01	g/yr	0.045 lbs/yr
mf_{sgw} =	1	µg/s	33	g/yr	0.1 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0033 µg/L

ATTACHMENT F-3
MASS FLUX CALCULATIONS - FLUORENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Fluorene (March 2020) **Figure No.** See Figure F-3

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	**Contour Interval**	**Geomean**
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1	
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32
L =	90	ft =	2743.2	cm	Length of segment between selected contours [C]	2	1.41
b =	18	ft =	548.64	cm	Saturated thickness		

Segment Length	**Thickness**
90	18
65	18

mf =	3.8E-02	µg/s	1.2E+00	g/yr	0.00262 lbs/yr

1-2 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	1.41	µg/L =	0.001414214	µg/cm^3	Geometric mean concentration between selected contours
L =	65	ft =	1981.2	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness

mf =	1.2E-01	µg/s	3.8E+00	g/yr	0.0085 lbs/yr
mf_{sgw} =	0	µg/s	5	g/yr	0.0 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00050 µg/L

ATTACHMENT F-4
MASS FLUX CALCULATIONS - PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Pyrene (March 2020) **Figure No.** See Figure F-4

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

								Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells			0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours			1	0.32	38	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours			5	2.24	130	18
L =	38	ft =	1158.24	cm	Length of segment between selected contours [C]						
b =	18	ft =	548.64	cm	Saturated thickness						
mf =	1.6E-02	µg/s	5.0E-01	g/yr	0.00111	lbs/yr					

1-5 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours		
C=	2.24	µg/L =	0.002236068	µg/cm^3	Geometric mean concentration between selected contours		
L =	130	ft =	3962.4	cm	Length of segment between selected contours [C]		
b =	18	ft =	548.64	cm	Saturated thickness		
mf =	3.9E-01	µg/s	1.2E+01	g/yr	0.0268	lbs/yr	
mf_{sgw} =	0	µg/s	13	g/yr	0.0	lbs/yr	

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00127 µg/L

Appendix G

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Second Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the second groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure G-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the water quality in the river. However, the concentration in groundwater of four potentially mobile constituents (acenaphthene, fluorene, naphthalene and pyrene) were above their respective applicable surface water quality criteria. Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, a mass flux analysis was conducted to confirm this. The concentrations of acenaphthene, fluorene and pyrene in the June 2020 samples were similar (within the same order of magnitude) to those in the March 2020 samples. Since the estimated surface water concentrations of these three constituents based on the mass flux analysis using the March 2020 data (see Appendix F) were three orders of magnitude below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary, and the analysis discussed herein was conducted for naphthalene only.

An analysis was conducted to assess the potential for discharge of naphthalene in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of naphthalene, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf=\Sigma\ C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i=Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (figure cm^2)

where: $A_i=(L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the June 2020 sampling event (see Figure G-2). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R=mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table G-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment G-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentration of naphthalene was calculated using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for naphthalene that are applicable to the various classes of fresh water.

Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Naphthalene	A, A-S, AA, AA-S, B, C	--	13	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	110	Fish survival
	A, A-S, AA, AA-S	10	--	Aesthetics

Attachment G-2 contains the calculations and results for this constituent. The estimated concentration of naphthalene in the Patchogue River resulting from site groundwater impacts is 0.0197 µg/L. This conservatively-estimated (i.e., biased high) concentration is three orders of magnitude below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentration is below the analytical laboratory detection limits for this constituent. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

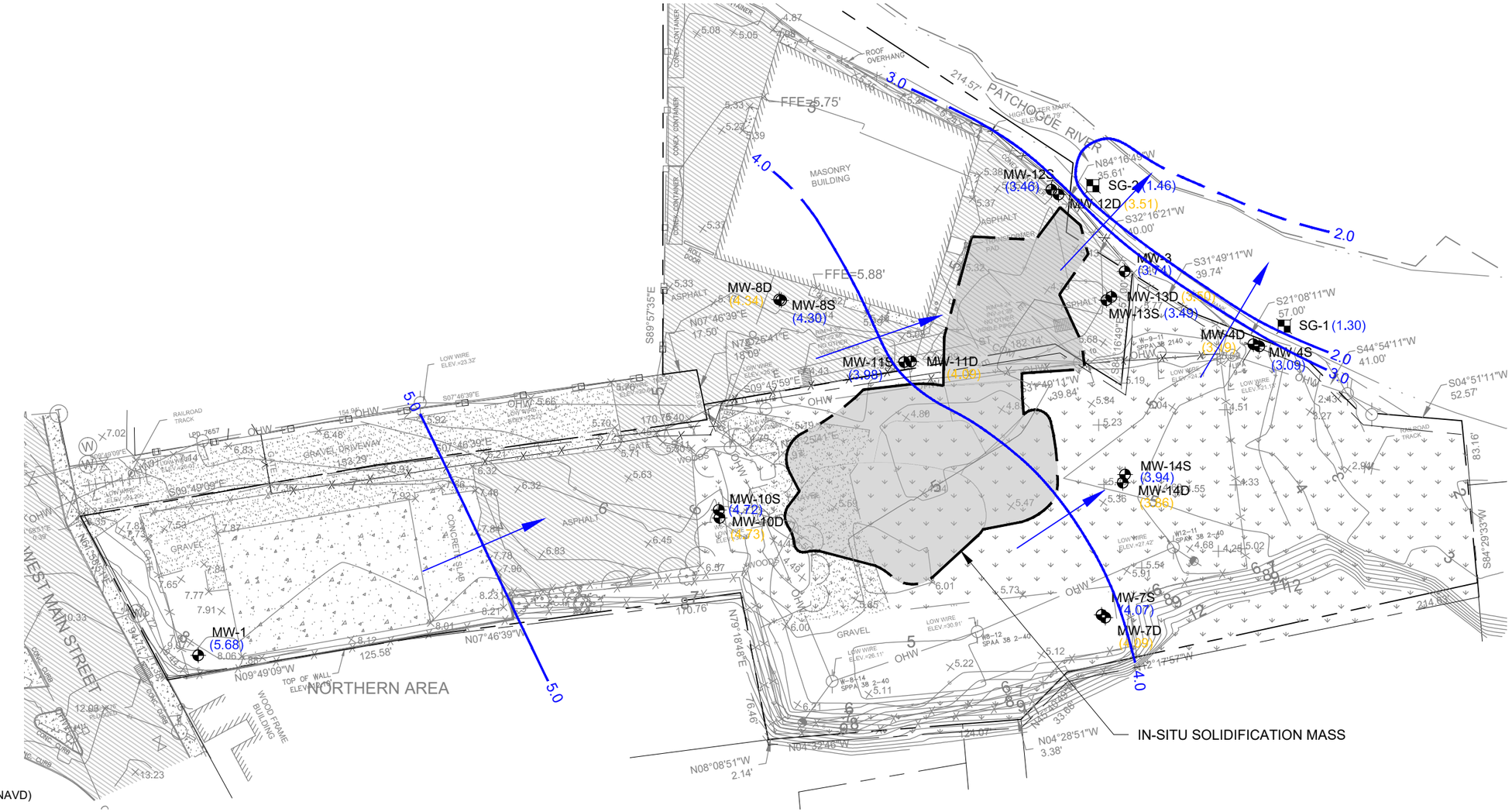
ft^3/s - cubic feet per second

Figures

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(June-2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) — GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) — GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: July 29, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
JUNE 29, 2020

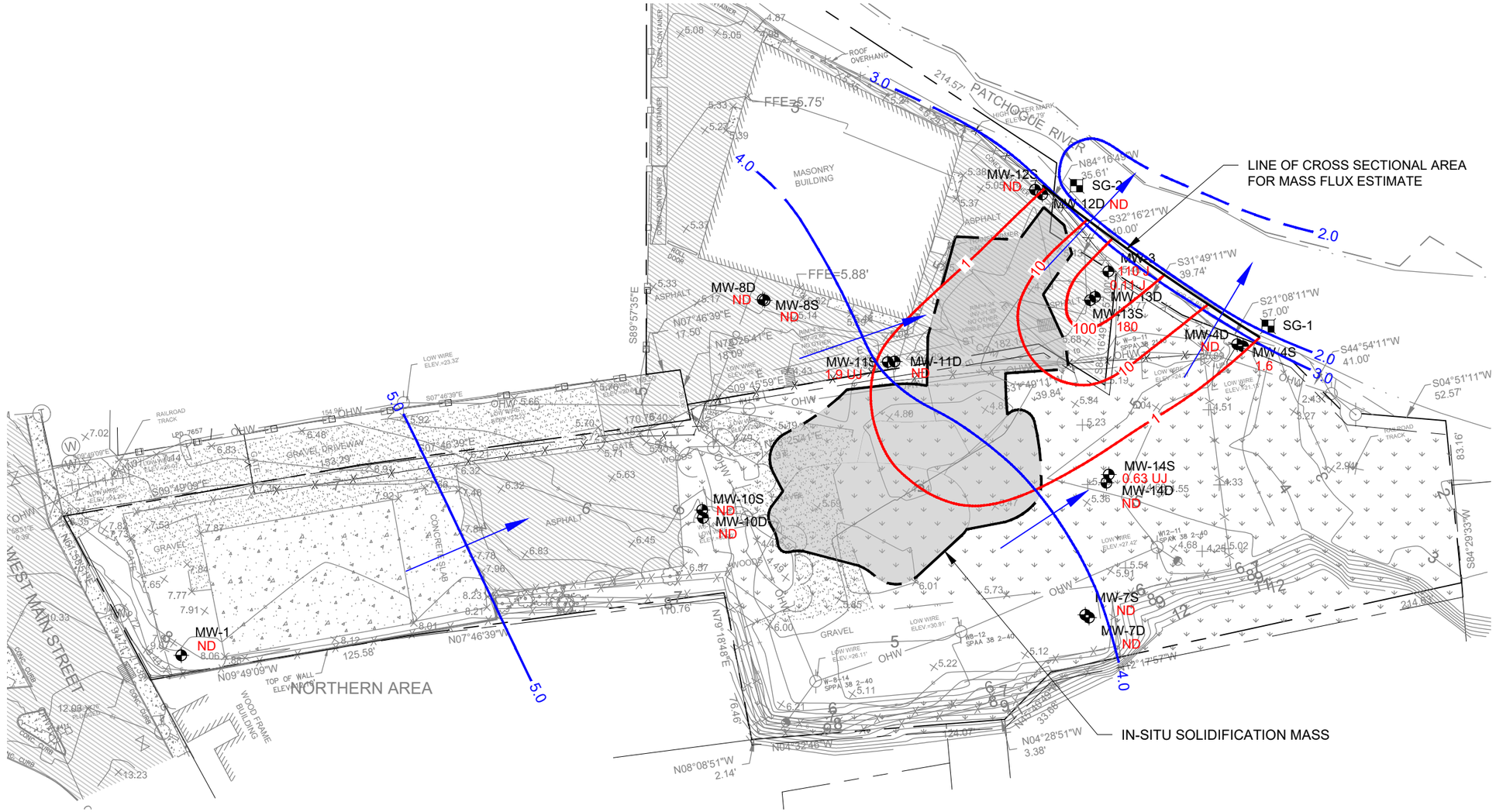
FIGURE

G-1

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-2_acenaphthene(June2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 10 — ISOCONCENTRATION CONTOUR. LOGARITHMIC CONTOUR INTERVAL (µg/L)
- 1.6 — NAPHTHALENE CONCENTRATION IN GROUNDWATER (µg/L) - JUNE 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: September 11, 2020

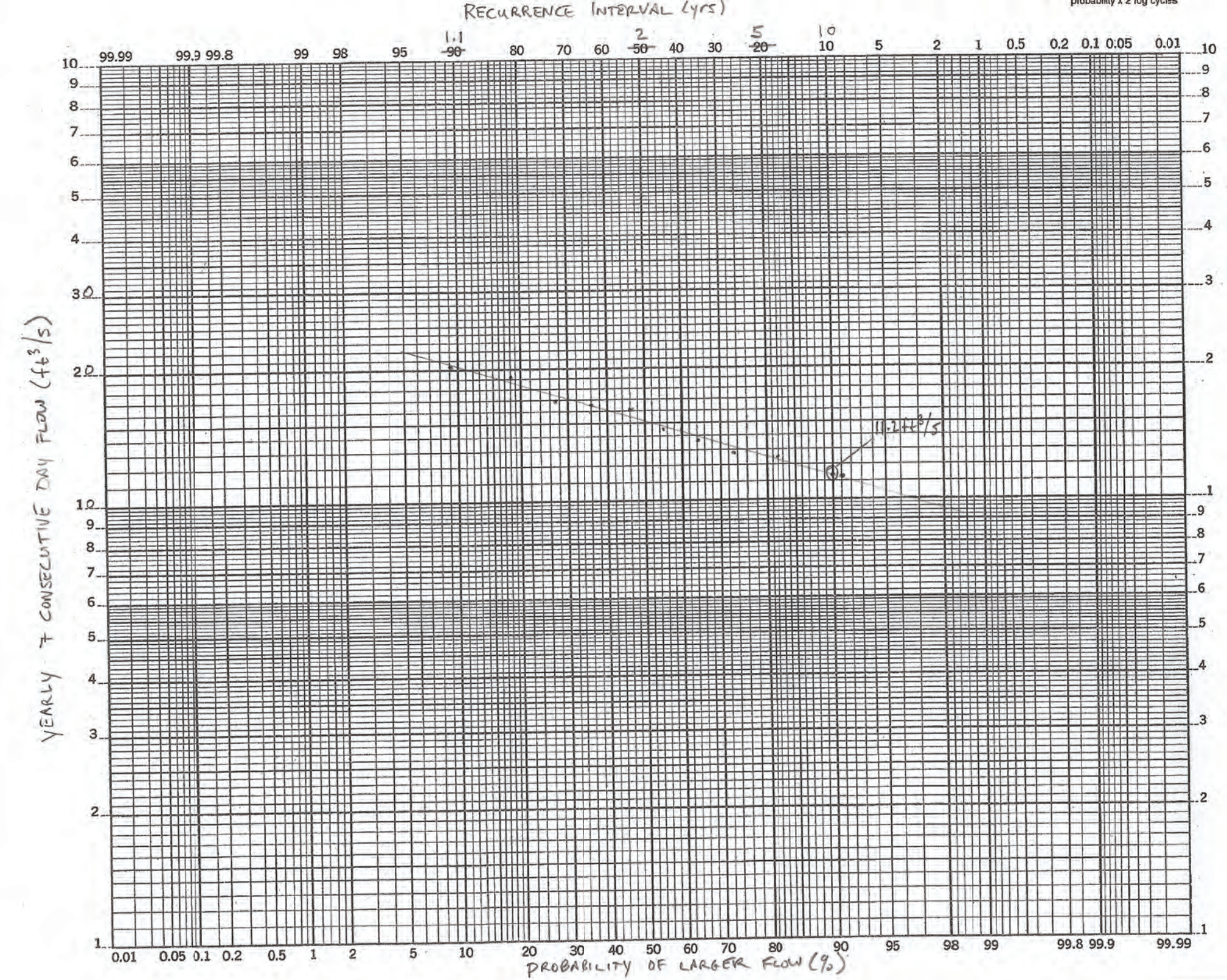
NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

NAPHTHALENE IN GROUNDWATER JUNE 2020

FIGURE

G-2

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT G-2
MASS FLUX CALCULATIONS - NAPHTHALENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Naphthalene (June 2020) **Figure No.** See Figure G-2

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=$µg/cm^3$

Shallow Groundwater Flux

1-10 Contour

						Contour Interval	Geomean	Segment Length	Segment Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells				
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1			
C=	3.16	µg/L =	0.00316	$µg/cm^3$	Geometric mean concentration between selected contours	10	3.16	66	18
L =	66	ft =	2011.68	cm	Length of segment between selected contours [C]	100	31.62	32	18
b =	18	ft =	548.64	cm	Saturated thickness	110	104.88	30	18
mf =	3.0E-01	µg/s	9.4E+00	g/yr	0.02070 lbs/yr				

10-100 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	31.62	µg/L =	0.0316	$µg/cm^3$	Geometric mean concentration between selected contours
L =	32	ft =	975.36	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	1.4E+00	µg/s	4.6E+01	g/yr	0.1003 lbs/yr

100-110 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	104.88	µg/L =	0.105	$µg/cm^3$	Geometric mean concentration between selected contours
L =	30	ft =	914.4	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	4.5E+00	µg/s	1.4E+02	g/yr	0.312 lbs/yr
mf_{sgw} =	6	µg/s	197	g/yr	0.4 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0197 µg/L

Appendix E

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Third Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the first groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure E-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration of six constituents (acenaphthene, benzo(a)anthracene, fluorene, naphthalene, phenanthrene and pyrene) were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S). Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this. The concentrations of acenaphthene and naphthalene in the September 2020 samples were similar (within the same order of magnitude) to those in the March and June 2020 samples. Since the estimated surface water concentrations of these two constituents based on the mass flux analysis using the March and June 2020 data were three orders of magnitude below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary. However, due to increased concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene in MW-3, an additional analysis was conducted for these constituents.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: q_i=Ki, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: A_i=(L)(b), with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the September 2020 sampling event (see Figures E-2 through E-5). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table F-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment F-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene were developed using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for benzo(a)anthracene, fluorene, phenanthrene and pyrene that are applicable to Class C Fresh Water (no standards have been developed for these compounds).

Class C Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Benzo(a)anthracene	A, A-S, AA, AA-S, B, C	--	0.03	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	0.23	Fish survival
Fluorene	A, A-S, AA, AA-S, B, C	--	0.54	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	4.8	Fish survival
Phenanthrene	A, A-S, AA, AA-S, B, C	--	5.0	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	45	Fish survival
Pyrene	A, A-S, AA, AA-S, B, C	--	4.6	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	42	Fish survival

Attachments E-2 through E-5 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Benzo(a)anthracene = 0.0008 µg/L
- Fluorene = 0.003 µg/L
- Phenanthrene = 0.001 µg/L
- Pyrene = 0.007 µg/L

These conservatively-estimated (i.e., biased high) concentrations are below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentrations are below the analytical laboratory detection limits for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

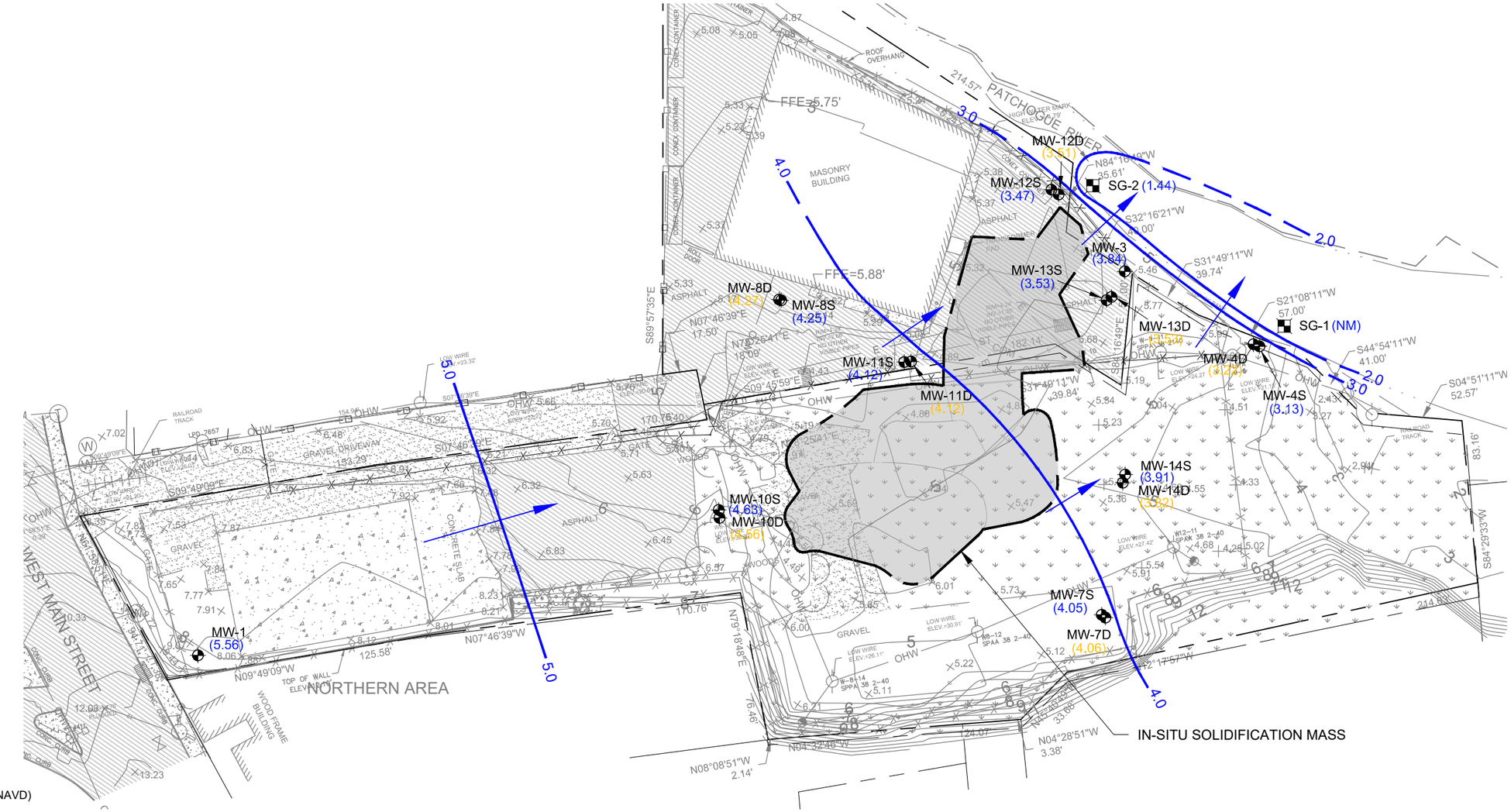
ft^3/s - cubic feet per second

Figures

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Sept-2020) Plot Date: December 4, 2020 11:07 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) — GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) — GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: July 29, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP SEPTEMBER, 2020

FIGURE

E-1

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-2_Benzo(a)athracene-(Sept-2020) Plot Date: December 4, 2020 11:08 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 2.4 — BENZO(a)ANTHRACENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- 1 — ISOCONCENTRATION CONTOUR. LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: November 17, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	BENZO(a)ANTHRACENE IN GROUNDWATER (µg/L) SEPTEMBER 2020	FIGURE E-2

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-3_Fluorene-(Sept-2020) Plot Date: December 4, 2020 11:10 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 10 — FLUORENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

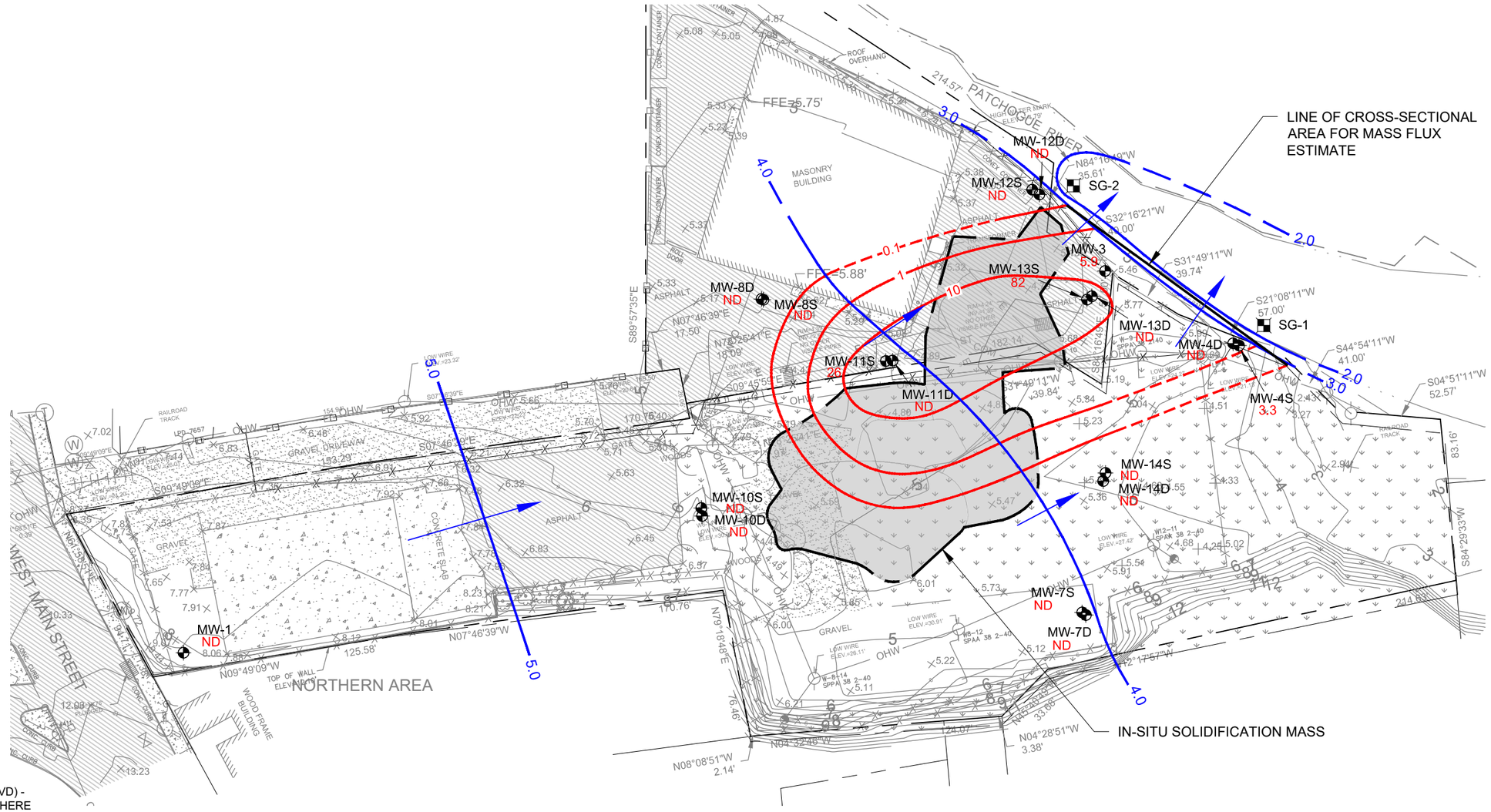
NORTHERN AREA

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: November 17, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	FLUORENE IN GROUNDWATER (µg/L) SEPTEMBER 2020	FIGURE E-3

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-4_Phenanthrene-(Sept-2020) Plot Date: December 4, 2020 11:11 AM Cadd User: Alan Santia

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 5.9 — PHENANTHRENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: November 17, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

PHENANTHRENE IN GROUNDWATER (µg/L) SEPTEMBER 2020

FIGURE

E-4

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-5_Pyrene-(Sept-2020) Plot Date: December 4, 2020 11:13 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 17 — PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: November 17, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	PYRENE IN GROUNDWATER (µg/L) SEPTEMBER 2020	FIGURE E-5

Attachments

probability x 2 log cycles

RECURRENCE INTERVAL (yrs)

1.1 2 5 10

99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)

0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99

PROBABILITY OF LARGER FLOW (%)

ATTACHMENT E-2
MASS FLUX CALCULATIONS - BENZO(A)ANTHRACENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Benzon(a)anthracene (September 2020) **Figure No.** See Figure E-2

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\ (L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval		Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		Geomean		
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1			
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32	34	18
L =	34	ft =	1036.32	cm	Length of segment between selected contours [C]	4.8	2.19	80	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.4E-02	µg/s	4.5E-01	g/yr	0.00099 lbs/yr				

1-4.8 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2.19	µg/L =	0.00219089	µg/cm^3	Geometric mean concentration between selected contours
L =	80	ft =	2438.4	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	2.3E-01	µg/s	7.3E+00	g/yr	0.0161 lbs/yr
mf_{sgw} =	0.25	µg/s	7.8	g/yr	0.017 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0008 µg/L

ATTACHMENT E-3
MASS FLUX CALCULATIONS - FLUORENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Fluorene (September 2020) **Figure No.** See Figure E-3

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1	0.32	32	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	10	3.16	46	18
L =	32	ft =	975.36	cm	Length of segment between selected contours [C]	10	10.00	60	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.3E-02	µg/s	4.2E-01	g/yr	0.00093 lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	3.16	µg/L =	0.003162278	µg/cm^3	Geometric mean concentration between selected contours
L =	46	ft =	1402.08	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	1.9E-01	µg/s	6.1E+00	g/yr	0.0134 lbs/yr

10-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	10.00	µg/L =	0.01	µg/cm^3	Geometric mean concentration between selected contours
L =	60	ft =	1828.8	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	8.0E-01	µg/s	2.5E+01	g/yr	0.0552 lbs/yr
mf_{sgw} =	1.0	µg/s	32	g/yr	0.070 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.003 µg/L

ATTACHMENT E-4
MASS FLUX CALCULATIONS - PHENANTHRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Phenanthrene (September 2020) **Figure No.** See Figure E-4

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1	0.32	38	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	5.9	2.43	107	18
L =	38	ft =	1158.24	cm	Length of segment between selected contours [C]				
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.6E-02	µg/s	5.0E-01	g/yr	0.00111 lbs/yr				

1-5.9 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2.43	µg/L =	0.002428992	µg/cm^3	Geometric mean concentration between selected contours
L =	107	ft =	3261.36	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.4E-01	µg/s	1.1E+01	g/yr	0.0239 lbs/yr
mf_{sgw} =	0.36	µg/s	11	g/yr	0.025 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.001 µg/L

ATTACHMENT E-5
MASS FLUX CALCULATIONS - PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Pyrene (September 2020) **Figure No.** See Figure E-5

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\ (L * b)}$
C = (µg/L)/1000=$µg/cm^3$

Shallow Groundwater Flux

0.1-1 Contour

							Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours		1	0.32	19	18
C=	0.316227766	µg/L =	0.000316228	$µg/cm^3$	Geometric mean concentration between selected contours		10	3.16	45	18
L =	19	ft =	579.12	cm	Length of segment between selected contours [C]		35	18.71	85	18
b =	18	ft =	548.64	cm	Saturated thickness					
mf =	8.0E-03	µg/s	2.5E-01	g/yr	0.00055	lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	3.16	µg/L =	0.003162278	$µg/cm^3$	Geometric mean concentration between selected contours	
L =	45	ft =	1371.6	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	1.9E-01	µg/s	6.0E+00	g/yr	0.0131	lbs/yr

1-35 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	18.71	µg/L =	0.018708287	$µg/cm^3$	Geometric mean concentration between selected contours	
L =	85	ft =	2590.8	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	2.1E+00	µg/s	6.7E+01	g/yr	0.1464	lbs/yr
mf_{sgw} =	2.3	µg/s	73	g/yr	0.16	lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.007 µg/L

Appendix E

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Fourth Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the December 2020 sampling event. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure E-1 for a depiction of shallow groundwater flow). The concentrations of some of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration of one or more of seven constituents -- acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene -- were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S). Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this. The concentrations of acenaphthene, benzo(a)anthracene, fluorene, naphthalene, and pyrene in the December 2020 samples were similar (within the same order of magnitude) to those in the March, June, and September 2020 samples. Since the estimated surface water concentrations of these five constituents based on the mass flux analyses using the March, June, and September 2020 data were below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary. However, due to increased concentrations of benzo(a)pyrene and phenanthrene in MW-3 in the December 2020 samples, an additional analysis was conducted for these constituents.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. Noteworthy is that including benzo(a)pyrene in this evaluation is a very conservative measure in that benzo(a)pyrene has a very low aqueous solubility, is not readily mobile in groundwater, and is unlikely to have migrated from the on-Site source area, Moreover, the detection of this constituent in the monitoring locations is likely related to the disturbance of fine or colloid sized particles during purging or sampling activities. These particles are derived from within the well or the soil adjacent to the well that become suspended into the water column of the well as a result of disturbance during purging and sampling activities.

The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described

in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf=\Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i=Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: $A_i=(L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the December 2020 sampling event (see Figures E-2 and E-3). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R=mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table E-1 provides the data used to determine the 7Q10 flow

in the Patchogue River. Attachment E-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of benzo(a)pyrene and phenanthrene were calculated using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for benzo(a)pyrene and phenanthrene that are applicable to Class C Fresh Water (no standards have been developed for these compounds).

Class C Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Benzo(a)pyrene	A, A-S, AA, AA-S, B, C, D	--	0.0012	Human Consumption of Fish
Phenanthrene	A, A-S, AA, AA-S, B, C	--	5.0	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	45	Fish survival

Attachments E-2 and E-3 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Benzo(a)pyrene = 0.00008 µg/L
- Phenanthrene = 0.025 µg/L

These conservatively estimated (i.e., biased high) concentrations are below the surface water guidance values listed above, including the lowest guidance value applicable to Class C surface waters. Also, the estimated concentrations are below the analytical laboratory detection limits for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

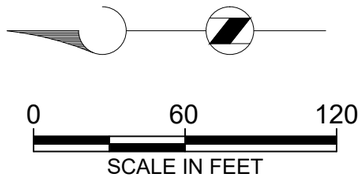
TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

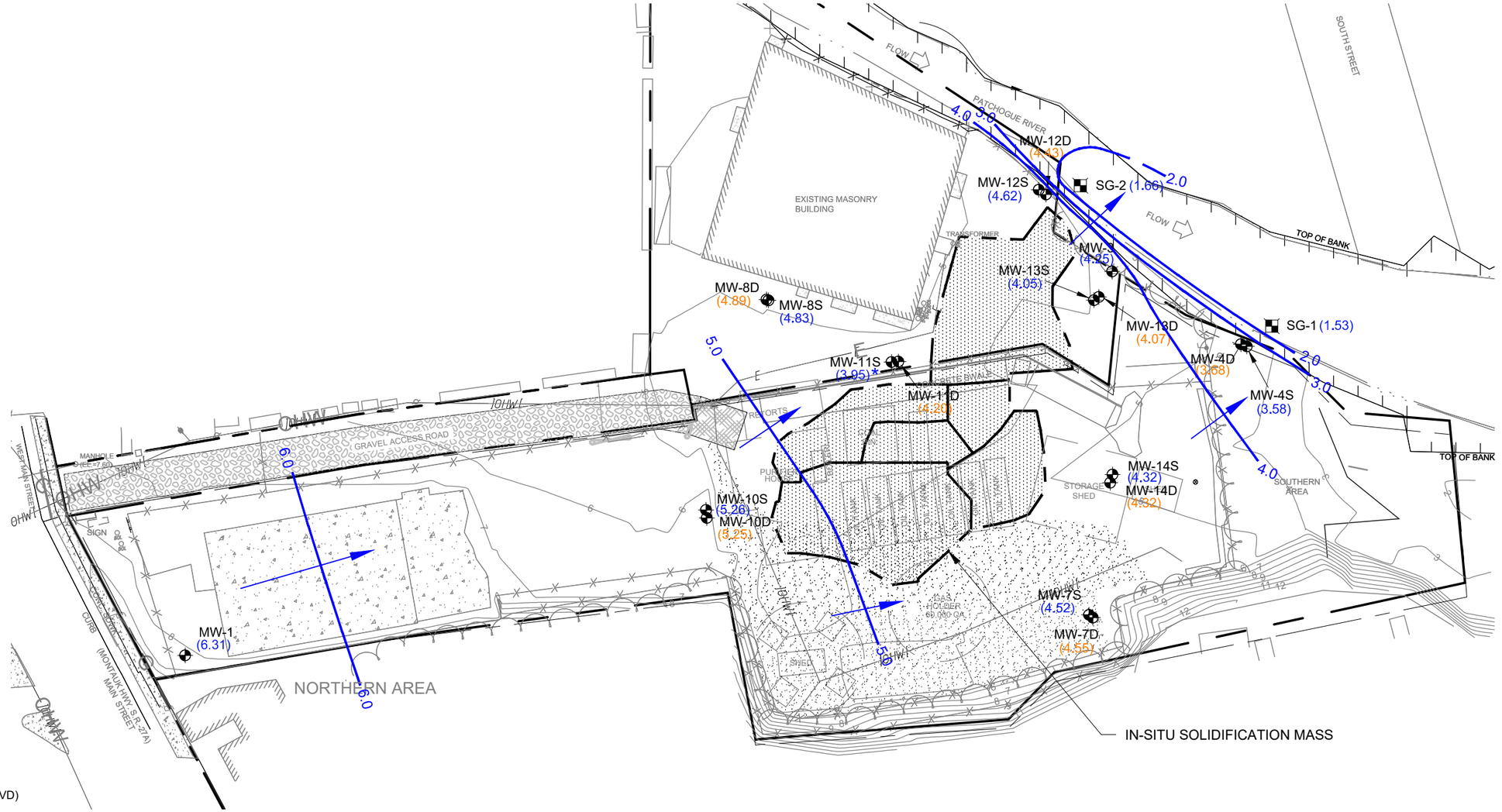
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures





LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: February 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
DECEMBER 28, 2020

FIGURE

E-1

Path: C:\users\asantiago\bcpwld0901435 File Name: FIG-1-(GW_Contours_December-2020) Plot Date: February 5, 2021 4:04 PM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- 10 TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 0.1 ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.10 J BENZO(A)PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- ND NOT DETECTED
- J ESTIMATED CONCENTRATION
- 4.0 WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 ND

MW-2 ND

MW-3 0.40 J

MW-4S ND

MW-4D ND

MW-7S ND

MW-7D ND

MW-8S ND

MW-8D ND

MW-10S ND

MW-10D ND

MW-11S 0.16 J

MW-11D ND

MW-12S ND

MW-12D ND

MW-13S ND

MW-13D ND

MW-14S ND

MW-14D ND

SG-1

SG-2

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: January 2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	BENZO(A)PYRENE IN GROUNDWATER DECEMBER, 2020	FIGURE E-2

Path: C:\users\asantiagobcpw\d0901435 File Name: BenzoApyrene_December2020 Plot Date: February 8, 2021 12:34 PM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 1 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.74 — PHENANTHRENE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 ND

MW-8D ND

MW-8S ND

MW-10S ND

MW-10D ND

MW-11S 0.74

MW-11D ND

MW-12D ND

MW-12S ND

MW-13S 45

MW-13D ND

MW-14S ND

MW-14D ND

MW-4D ND

MW-4S 0.15 J

MW-7S ND

MW-7D ND

SG-1

SG-2

PATCHOGUE RIVER

WEST MAIN STREET

SOUTH STREET

TOP OF BANK

FFE=5.75'

FFE=5.88'

MASONRY BUILDING

EXISTING MASONRY BUILDING

WOOD FRAME BUILDING

GRAVEL DRIVEWAY/ACCESS ROAD

CONCRETE SLAB

ASPHALT

GRAVEL

RAILROAD TRACK

Path: C:\users\asantiago\bcpw\d0901435 File Name: Phenanthrene_December2020 Plot Date: February 8, 2021 12:33 PM Cadd User: Alan Santiago

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: January 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

PHENANTHRENE IN GROUNDWATER (µg/L)
DECEMBER, 2020

FIGURE

E-3

Attachments

probability x 2 log cycles

RECURRENCE INTERVAL (yrs)

1.1 2 5 10

99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)

0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99

PROBABILITY OF LARGER FLOW (%)

ATTACHMENT E-2
MASS FLUX CALCULATIONS - BENZO(A)PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Benzo(a)pyrene (December 2020) **Figure No.** See Figure E-2

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-0.1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours				
C=	0.1	µg/L =	0.0001	µg/cm^3	Geometric mean concentration between selected contours	0.1	0.10	16	18
L =	16	ft =	487.68	cm	Length of segment between selected contours [C]				
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	2.5E-02	µg/s	7.7E-01	g/yr	0.00170 lbs/yr				
mf_{sgw} =	0.02450	µg/s	0.773	g/yr	0.00170 lbs/yr				

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00008 µg/L

ATTACHMENT E-3
MASS FLUX CALCULATIONS - PHENANTHRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Phenanthrene (December 2020) **Figure No.** See Figure E-3

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

							Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		0.1			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours					
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours		1	0.32	35	18
L =	35	ft =	1066.8	cm	Length of segment between selected contours [C]		10	3.16	67	18
b =	18	ft =	548.64	cm	Saturated thickness		13	11.40	26	18
mf =	1.7E-01	µg/s	5.3E+00	g/yr	0.01176	lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	3.16	µg/L =	0.003162278	µg/cm^3	Geometric mean concentration between selected contours	
L =	67	ft =	2042.16	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	3.2E+00	µg/s	1.0E+02	g/yr	0.2251	lbs/yr

10-13 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	11.40	µg/L =	0.011401754	µg/cm^3	Geometric mean concentration between selected contours	
L =	26	ft =	792.48	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	4.5E+00	µg/s	1.4E+02	g/yr	0.3150	lbs/yr
mf_{sgw} =	7.95	µg/s	251	g/yr	0.552	lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.025 µg/L

Appendix F: Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data

Appendix G

Evaluation of Potential Impact to River from Increased pH Levels in Groundwater
Patchogue Former MGP Site
Patchogue, New York

As described in the Fourth Quarter 2020 Groundwater Monitoring Report, elevated pH levels were measured in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the December 2020 groundwater sampling activities. The increased pH levels are considered a potential effect from implementation of ISS in the area and it is anticipated that the pH will decrease to pre-remedy levels with time (i.e., as ISS mass continues to fully cure). Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure G-1 for a depiction of shallow groundwater flow).

The pH levels measured at MW-3 and MW-13S in December 2020 were 10.46 and 9.60, respectively, which is above the acceptable range for pH levels applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). In accordance with 6 NYCRR Part 703.3, pH shall not be less than 6.5 nor more than 8.5 in Class C water bodies. Although it was not anticipated that the increased pH levels would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this.

An analysis was conducted to assess the potential for discharge of shallow groundwater with elevated pH levels to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of hydroxide (OH^-), dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of hydroxide from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma\, C_i q_i A_i$$

Where: mf = total mass flux of dissolved hydroxide from the source (µg/sec)

C_i = concentration of the hydroxide ion (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: q_i=Ki, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: A_i=(L)(b), with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of the mass flux of hydroxide (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow

groundwater. The horizontal dimension of the flow area, L, is equal to the width of the hydroxide plume, which is based on the isoconcentration contours developed from the results of the December 2020 sampling event (see Figure G-2). The concentration of hydroxide in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of hydroxide in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table G-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment G-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.
- The mass flux estimate assumes that there is no pH buffering capacity in the river water; the buffering capacity would resist change to pH in the river water due to contributions of higher pH groundwater.

To screen for potential impacts to the river, the estimated concentration of hydroxide was calculated using the above-described method and then converted back to pH to compare to water quality standards for pH per NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations. Attachment G-2 contains the calculations and results for the analysis performed. The estimated concentration of hydroxide in the Patchogue River resulting from site groundwater impacts is 3.67 µg/L, which equates to a pH level of 7.45. For comparison, water quality data was obtained from a USGS river gauging station proximal to the Site (USGS 01306000, Patchogue River at Patchogue New York) for the period May 6, 1966 to August 12, 1996; pH levels measured at this station during this period ranged from 5.3 to 8.4 and had a median of 6.8. This median pH value was accounted for in the mass flux estimate. Specifically, the median pH of 6.8 in the Patchogue River, which equates to a hydroxide ion concentration of 1.07 µg/L was added to the estimated hydroxide ion concentration in the river contributed by site groundwater to reflect hydroxide conditions already present in the surface water. The conservatively-estimated (i.e., biased high) pH level of 7.45 is above the median level measured in

the river, which may be a result of the increased pH levels in shallow groundwater adjacent to the river; however, it is within the acceptable range for pH levels in Class C water bodies in accordance with 6 NYCRR Part 703.3 (i.e., pH shall not be less than 6.5 nor more than 8.5). Based on the evaluation conducted, the increased pH levels in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

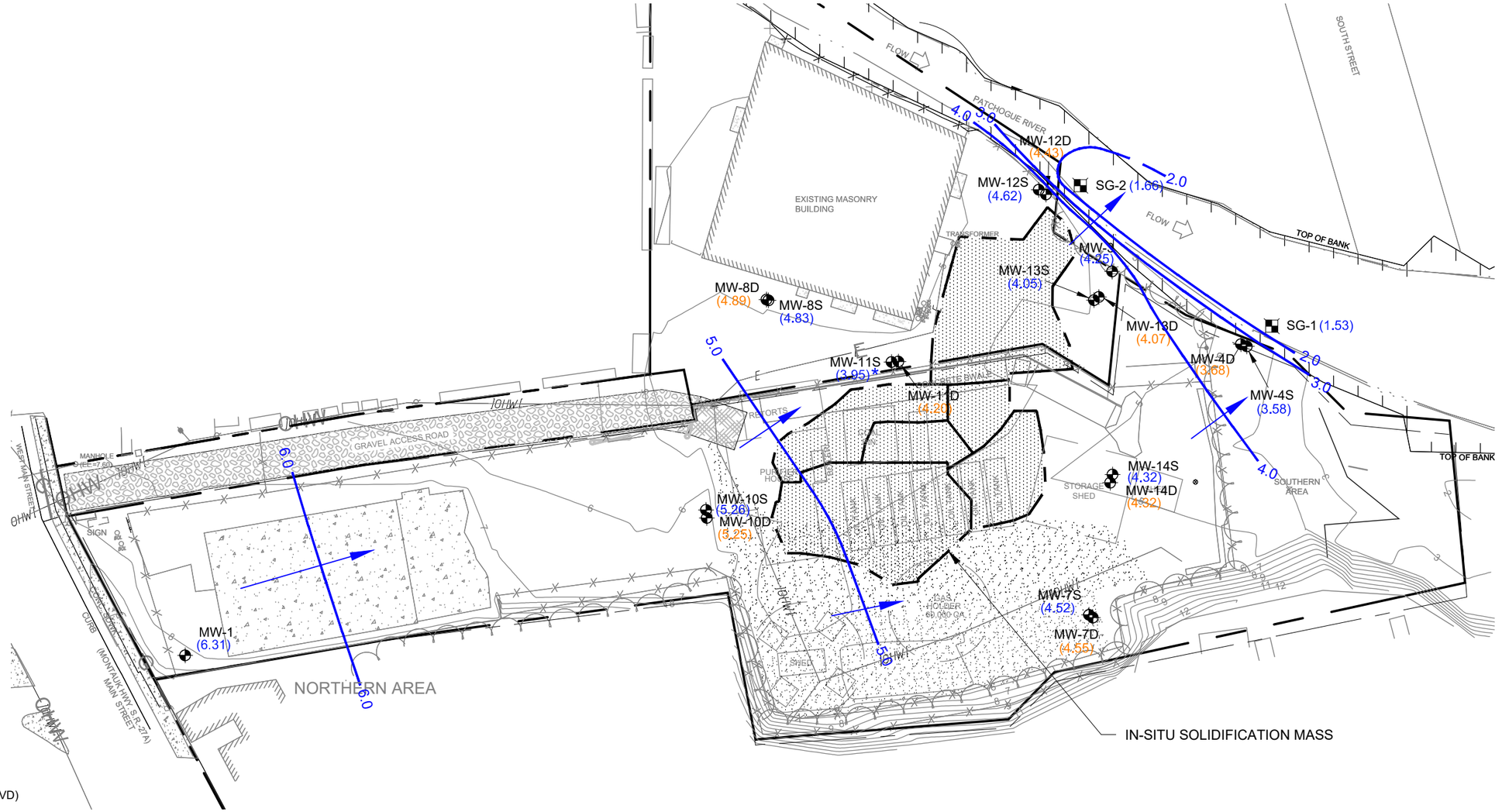
Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- 10 TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: February 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
DECEMBER 28, 2020

FIGURE

G-1

Path: C:\users\asantiagolbcpw\d0901435 File Name: FIG-1-(GW_Contours_December-2020) Plot Date: February 5, 2021 4:04 PM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.65 — HYDROXIDE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: January 2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	HYDROXIDE(OH-) IN GROUNDWATER (µg/L) DECEMBER, 2020	FIGURE G-2

Path: C:\users\asantiago\bcpw\d09901435 File Name: Hydroxide(OH-)_December2020 Plot Date: February 9, 2021 12:33 PM Cadd User: Alan Santiago

Attachments

probability x 2 log cycles

RECURRENCE INTERVAL (yrs)

1.1 2 5 10

99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)

0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99

PROBABILITY OF LARGER FLOW (%)

ATTACHMENT G-2
MASS FLUX CALCULATIONS - pH
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

pH (December 2020) **Figure No.** See Figure G-2

mf = kiA * C
Where: mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

10-100 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	10			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	100	31.62	23	18
C=	31.6227766	µg/L =	0.031622777	µg/cm^3	Geometric mean concentration between selected contours	1000	316.23	63	18
L =	23	ft =	701.04	cm	Length of segment between selected contours [C]	4905	2214.72	25	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.1E+01	µg/s	3.5E+02	g/yr	0.77275 lbs/yr				

100-1000 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	316.23	µg/L =	0.316227766	µg/cm^3	Geometric mean concentration between selected contours
L =	63	ft =	1920.24	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.1E+02	µg/s	9.6E+03	g/yr	21.1665 lbs/yr

1000-4905 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2214.72	µg/L =	2.214723459	µg/cm^3	Geometric mean concentration between selected contours
L =	25	ft =	762	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	8.5E+02	µg/s	2.7E+04	g/yr	58.8258 lbs/yr
mf_{sgw} =	1164.11	µg/s	36711.4	g/yr	80.765 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 4.74 µg/L
Note - Value is based on hydroxide ion (OH^-) from groundwater discharge plus ambient OH^- in river (1.07 µg/L).

pH_R = 7.45 std. units