Third 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

December 3, 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

Table of Contents

Appendices i
List of Tables ii
List of Figures ii
List of Abbreviations iii
1. Introduction 1-1
   1.1 Background 1-1
2. Scope of Work 2-1
3. Results and Findings 3-1
   3.1 Water Level Data 3-1
   3.2 NAPL Gauging 3-1
   3.3 Groundwater Quality Data 3-1
4. Summary and Conclusions 4-1
5. References 5-1

Appendices

Appendix A Field Sampling Data Sheets
Appendix B Laboratory Reports
Appendix C Data Validator Qualifications
Appendix D Data Usability Summary Report
Appendix E Evaluation of Potential Impact to River from Site Constituents in Groundwater – 2020 Data
Appendix F Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data

List of Tables

Table 1. Water Elevations and NAPL Monitoring Data
Table 2. Groundwater Analytical Results
Table 3. Summary of Historical BTEX Concentrations
Table 4. Summary of Historical PAH Concentrations

List of Figures

Figure 1. Water Table Elevation Contour Map – September 28, 2021

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
MDL	Method Detection Limit
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
PAH	Polycyclic Aromatic Hydrocarbon
QA/QC	Quality Assurance/Quality Control
RL	Reporting Limit
SIM	Selective Ion Monitoring
Site	Patchogue Former MGP Site
TOGS	Technical and Operational Guidance Series
µg/L	micrograms per liter
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 third quarter of 2021 at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). This monitoring event is the seventh 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 third 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 September 2021 groundwater monitoring event, which is the seventh 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 were provided under separate cover in the "Draft Final Engineering Report" (FER) (BC, May 2021).

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. Monitoring well construction logs for the well couplets installed in January 2020 were provided in Appendix O (Site Management Plan) of the Draft FER (BC, May 2021).

Groundwater monitoring prior to remedy implementation was conducted on a semi-annual basis prior to remedy implementation; 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 third quarter 2021 groundwater monitoring were conducted by BC from September 28 through September 30, 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 September 2021 sampling event from surface water elevation control points SG-1 and SG-2. 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:

- All sample detections detected above the method detection limit (MDL) and below the reporting limit (RL) are appropriately qualified as estimated, J, by the laboratory.

- Sample MW-11S-20210929 surrogate recoveries for 1-methylnaphthalene-d10 and fluoranthene-d10 were below control limits. Sample detections are qualified as estimated, J, and non-detections as estimated with limited detection, UJ.

Section 3

Results and Findings

3.1 Water Level Data

Table 1 provides the water level data and calculated water elevations from the September 28, 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 September 2021 groundwater monitoring event. NAPL was not identified in any of the Site monitoring wells during the September 28, 2021 gauging activities.

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the September 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 September 28 to September 30, 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 September 2021 samples at locations MW-3, MW-11S, and MW-13S for one or more of the following tested constituents: acenaphthene, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, 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, and the elevated concentrations are expected to decrease with time. 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 surface water quality in the Patchogue 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. 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). 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 resulting from the discharge of groundwater from the Site were below applicable surface water criteria. 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 September 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 concentrations of these seven constituents in surface water, as derived from the previous mass flux analyses, 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-8D, MW-10S, and MW-11S at low concentrations (i.e., at or slightly above the laboratory method detection limit), but above the Class GA groundwater quality criteria, during the September 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 five compounds: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene. 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 four of these five PAHs are unpromulgated guidance values rather than 6 NYCRR Part 703 standards. The criteria for the fifth PAH, benzo(a)pyrene, is a Part 703 standard. The standard for benzo(a)pyrene is “non-detect” and the guidance value for the other four PAHs, 0.002 micrograms per liter (µg/L), is approximately an order of magnitude below the method detection limit. Therefore, any detection of these compounds in groundwater will result in an exceedance. 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 September 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 September 2021 field parameter measurements (see Appendix A) includes an apparent increase in pH levels in wells MW-3 and MW-13S from the levels observed in June 2021 at these locations. Specifically, pH levels in MW-3 increased from 9.60 to 11.09; levels in MW-13S increased slightly from 9.45 to 9.78. The pH levels in MW-3 prior to implementation of the remedy were considerably less than observed in December 2018 (6.9) and increased following remedy implementation, ranging from 7.43 in March 2020 to a current high of 11.09. 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, ranging from 7.66 in March 2020 to a high of 9.88 in March/April 2021. The increased pH levels are considered a potential effect from implementation of ISS in the area and are anticipated to 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 September 2021 are within a half an order of magnitude or less to the levels measured in June 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 September 2021 groundwater monitoring event.

- NAPL was not identified in any of the Site monitoring wells during the September 2021 gauging activities.
- Consistent with other monitoring events conducted after remedy implementation, constituent concentrations above Class GA groundwater quality criteria were detected in the September 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, fluorene, naphthalene, phenanthrene, and pyrene. 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. 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

Brown and Caldwell Associates, May 2021, Final Engineering Report (Draft), Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, May 2019, Remedial Design Report (100% Submission), Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

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
THIRD QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

		9/28/2021			
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	5.56	5.91	NI	15.27
MW-3	5.56	1.59	3.97	NI	10.02
MW-4S	7.97	4.64	3.33	NI	12.27
MW-4D	7.79	4.40	3.39	NI	26.72
MW-7S	8.45	4.19	4.26	NI	12.40
MW-7D	8.31	4.02	4.29	NI	28.20
MW-8S	5.01	0.50	4.51	NI	9.84
MW-8D	4.99	0.46	4.53	NI	25.16
MW-10S	5.77	0.82	4.95	NI	15.45
MW-10D	5.73	0.78	4.95	NI	25.30
MW-11S	5.02	0.68	4.34	NI	13.75
MW-11D	5.14	0.76	4.38	NI	23.55
MW-12S	4.99	1.33	3.66	NI	13.90
MW-12D	4.92	1.22	3.70	NI	23.96
MW-13S	4.98	1.35	3.63	NI	13.30
MW-13D	4.96	1.24	3.72	NI	23.95
MW-14S	4.86	0.80	4.06	NI	12.65
MW-14D	4.82	0.78	4.04	NI	21.85
SG-1	5.38	3.94	1.44	--	NA
SG-2	5.25	3.70	1.55	--	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
THIRD 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 9/28/2021	MW-3 9/30/2021	MW-3 (Dup) 9/30/2021	MW-4S 9/29/2021	MW-4D 9/29/2021	MW-7S 9/29/2021	MW-7D 9/29/2021	MW-8S 9/28/2021	MW-8D 9/28/2021	MW-10S 9/28/2021
Volatile Organic Compounds (VOCs)														
BTEX Compounds														
Benzene	NE	1	µg/L		0.30 U	0.91 J	0.98 J	1.0	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	NE	5	µg/L		0.20 U	0.76 J	0.77 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	NE	5	µg/L		0.40 U	2.9	2.9	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	4.4	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	8.7 J	9.1 J	1.0	ND	ND	ND	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	0.20 U	0.20 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	**46**	**49**	16	0.010 U	0.03 J	0.011 U	0.18	0.010 U	0.010 U
Acenaphthylene	NE	NE	µg/L		0.010 U	6.4	6.3	0.250	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	0.010 U
Anthracene	50	NE	µg/L		0.010 U	2.2	2.40	0.220	0.010 U	0.024 J	0.011 U	0.010 U	0.010 U	0.010 U
Benzo(a)anthracene	0.002	NE	µg/L		0.010 U	**1.5**	**1.6**	0.011 U	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	**0.012 J**
Benzo(a)pyrene	NE	0	µg/L		0.010 U	**0.013 J**	0.100 U	0.011 U	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	**0.011 J**
Benzo(b)fluoranthene	0.002	NE	µg/L		0.010 U	**0.025 J**	0.100 U	0.011 U	0.010 U	0.010 U	0.011 U	0.010 U	**0.012 J**	**0.013 J**
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.011 U	0.100 U	0.011 U	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	0.011 J
Benzo(k)fluoranthene	0.002	NE	µg/L		0.010 U	0.011 U	0.100 U	0.011 U	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	0.010 U
Chrysene	0.002	NE	µg/L		0.010 U	**0.880**	**0.94**	0.011 U	0.010 U	0.010 U	0.011 U	0.010 U	**0.017 J**	**0.013 J**
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.021 U	0.021 U	0.210 U	0.021 U	0.020 U	0.020 U	0.021 U	0.020 U	0.020 U	0.021 U
Fluoranthene	50	NE	µg/L		0.021 J	17	18	4.4	0.010 U	0.017 J	0.011 U	0.010 U	0.025 J	0.012 J
Fluorene	50	NE	µg/L		0.016 J	14	15	6.5	0.010 U	0.010 U	0.011 U	0.010 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.021 U	0.021 U	0.210 U	0.021 U	0.020 U	0.020 U	0.021 U	0.020 U	0.020 U	0.021 U
Naphthalene	10	NE	µg/L		0.046 UJ	**110**	**130**	0.059 UJ	0.031 U	0.030 U	0.032 U	0.031 U	0.030 U	0.036 UJ
Phenanthrene	50	NE	µg/L		0.031 U	20	19	0.1	0.031 U	0.030 U	0.032 U	0.031 U	0.030 J	0.031 U
Pyrene	50	NE	µg/L		0.017 J	22	24	4.9	0.010 U	0.013 J	0.011 U	0.010 U	0.027 J	0.014 J
Total PAHs[(b)]	NE	NE	µg/L		0.054 J	240 J	266	32.4 J	ND	0.09 J	ND	0.18	0.111 J	0.086 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
THIRD 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 9/28/2021	MW-11S 9/29/2021	MW-11D 9/29/2021	MW-12S 9/29/2021	MW-12D 9/29/2021	MW-13S 9/30/2021	MW-13D 9/30/2021	MW-14S 9/29/2021	MW-14D 9/29/2021
Volatile Organic Compounds (VOCs)													
BTEX Compounds													
Benzene	NE	1	µg/L		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	**1.5**	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	0.56 J	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	1.2	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.67 J	0.40 U	0.40 U	0.40 U
Total BTEX[(a)]	NE	NE	µg/L		ND	ND	ND	ND	ND	3.9 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	0.20 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	0.95 J	0.010 U	0.010 U	0.010 U	**31**	0.010 U	0.08	0.011 U
Acenaphthylene	NE	NE	µg/L		0.010 U	0.02 J	0.010 U	0.010 U	0.010 U	1.2	0.010 U	0.010 U	0.011 U
Anthracene	50	NE	µg/L		0.010 U	0.044 J	0.010 U	0.010 U	0.010 U	6.0	0.010 U	0.010 U	0.011 U
Benzo(a)anthracene	0.002	NE	µg/L		0.010 U	**0.059 J**	0.010 U	0.010 U	0.010 U	**1.2**	0.010 U	0.010 U	0.011 U
Benzo(a)pyrene	NE	0	µg/L		0.010 U	**0.039 J**	0.010 U	0.010 U	0.010 U	**0.057**	0.010 U	0.010 U	0.011 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.010 U	**0.042 J**	0.010 U	0.010 U	0.010 U	**0.073**	0.010 U	0.010 U	0.011 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.019 J	0.010 U	0.010 U	0.010 U	0.01 U	0.010 U	0.010 U	0.011 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.010 U	**0.016 J**	0.010 U	0.010 U	0.010 U	**0.03 J**	0.010 U	0.010 U	0.011 U
Chrysene	0.002	NE	µg/L		0.010 U	**0.074 J**	0.010 U	0.010 U	0.010 U	**0.82**	0.010 U	0.010 U	0.011 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.021 U	0.021 UJ	0.021 U	0.020 U	0.020 U	0.02 U	0.021 U	0.020 U	0.022 U
Fluoranthene	50	NE	µg/L		0.010 U	0.170 J	0.010 U	0.010 U	0.010 U	5.4	0.010 U	0.012 J	0.011 U
Fluorene	50	NE	µg/L		0.010 U	0.160 J	0.010 U	0.010 U	0.010 U	9.7	0.010 U	0.010 U	0.011 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.021 U	0.021 UJ	0.021 U	0.020 U	0.020 U	0.02 U	0.021 U	0.020 U	0.022 U
Naphthalene	10	NE	µg/L		0.052 UJ	0.073 UJ	0.031 U	0.031 U	0.030 U	**41**	0.032 J	0.160 UJ	0.033 U
Phenanthrene	50	NE	µg/L		0.031 U	0.110 J	0.031 U	0.031 U	0.030 U	36	0.031 U	0.030 U	0.033 U
Pyrene	50	NE	µg/L		0.010 U	0.230 J	0.010 U	0.016 J	0.010 U	7.1	0.014 J	0.022 J	0.011 U
Total PAHs[(b)]	NE	NE	µg/L		ND	2 J	ND	0.016 J	ND	140 J	0.046 J	0.117 J	ND

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]
Sep-21	0	-- [b]	-- [b]	8.7	1.0	0	-- [c]	-- [c]	0	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	3.8	0.9	0	913	8.6	0.21	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]
Sep-21	0	0	0	0	0	0	3.9	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	0.03	0	1.6	0	0	0	15	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]
Sep-21	0.1	-- [b]	-- [b]	223	16.4	0	-- [c]	-- [c]	0.07	0	0.18	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	55	8	3.4	2413	65	0.49	0.15	1.5	0.077	27	0.88

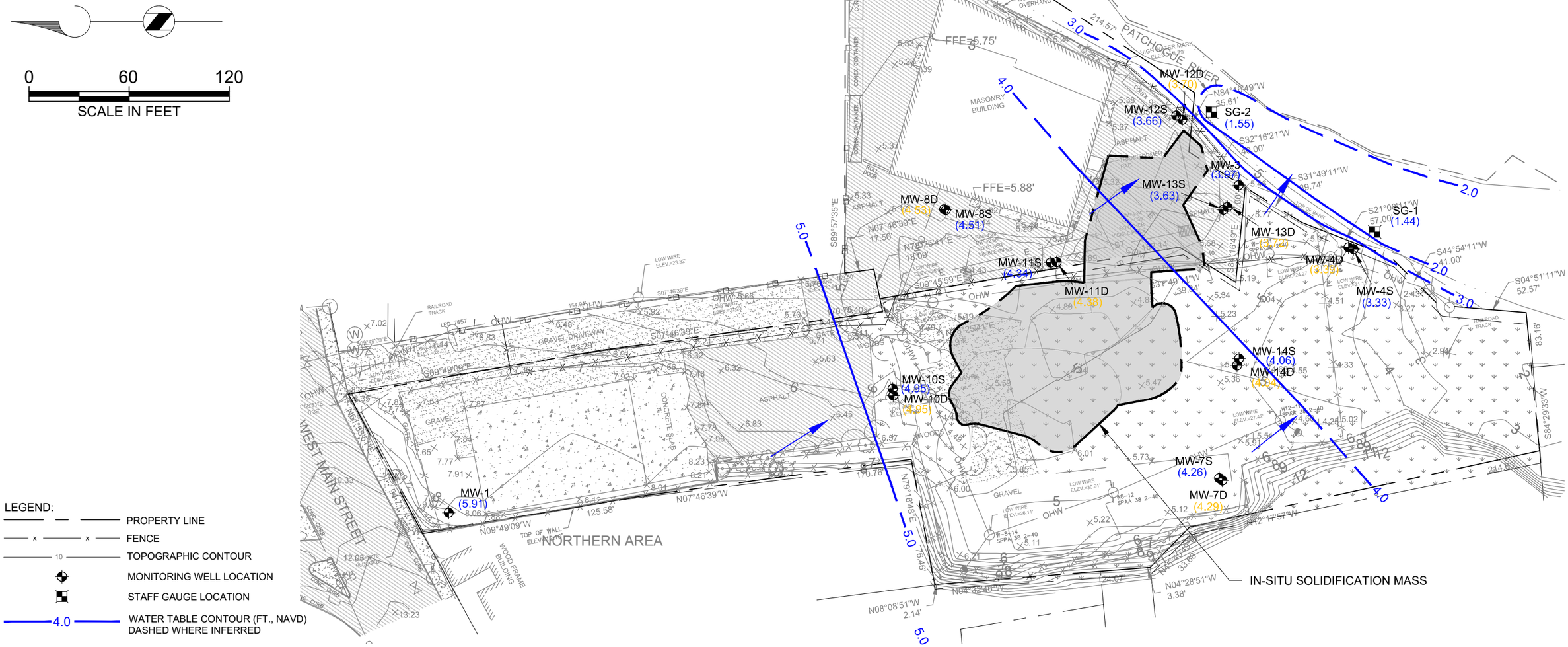
Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring Well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 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]
Sep-21	0.122	0.052	2	0	0	0	140	0.046	0.3	0	-- [c]
Min	0	0	2.0	0	0	0	140	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	0.063	0.055	65	0.24	2.0	0	263	0.048	0.83	0.012	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



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAUGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (5.91) — GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.95) — 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
SEPTEMBER 28, 2021

FIGURE

1

Path: Z:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Sept_28_2021) Plot Date: November 1, 2021 9:42 AM Cadd User: Alan Santiago

Appendix A: Field Sampling Data Sheets

Brown AND Caldwell

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-1
Sample I.D.: MW-1-20210928 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/28/21 Time: 1035
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: 5.56 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: 33 min Volume Pumped: 2.5 G
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: [signature] Date: 9/28/21

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: 12.5

Project Number: 153021
Date: 9/28/21
Well ID: MW-1
Sample ID: MW-1-20210928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1040	6.83	22.54	1.37	2.93	341	-6	5.60	250	
1043	7.14	22.39	1.93	0.61	363	-72	5.60		
1046	7.15	22.37	1.97	0.55	334	-79	5.60		
1049	7.15	22.35	2.07	0.53	290	-87	5.60		
1052	7.14	22.40	2.19	0.36	255	-95	5.60		
1055	7.14	22.22	2.31	0.31	204	-100	5.60		
1058	7.11	21.98	2.36	0.20	191	-105	5.60		
1101	7.10	21.72	2.41	0.15	172	-107	5.60		
1104	7.11	21.02	2.45	0.27	114	-113	5.62		
1107	7.13	20.91	2.49	0.00	82.1	-115	5.65		
1110	7.12	20.85	2.46	0.00	78.0	-118	5.68		
1113	7.13	20.85	2.44	0.00	72.7	-121	5.70		
1116	Collect sample								

Certified Sample Information:
Time of Sample: 1116
Analyst Signature: Rachel Scandale

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LB70W1
Calibration Date/Time: Lab cal

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10S
Sample I.D.: MW-10S-20210928 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/28/21 Time: 1300
Weather: Rain 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: 0.80 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: 2.00 L/min Elapsed Time: 30 min Volume Pumped: 26 L
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: [signature] Date: 9/28/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
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:	National Grid	Date:	9/28/21
Personnel:	RES/MHM	Well ID:	MW-105
Purge/Sample Depth:	~12	Sample ID:	MW-105-20210928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	Temp °C	pH	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1304	21.62	7.04	0.594	2.58	97.3	-88	0.80	200	
1307	20.88	6.98	0.558	1.81	102	-114	0.80		
1310	20.23	6.97	0.563	0.30	98.9	-118	0.81		
1313	20.06	6.93	0.569	0.14	105	-117	0.81		
1316	19.94	6.92	0.569	0.11	107	-118	0.82		
1319	19.76	6.95	0.593	0.53	117	-113	0.82		
1322	19.65	6.85	0.640	0.48	105	-113	0.82		
1325	19.59	6.83	0.636	0.44	101	-113	0.82		
1328	19.48	6.87	0646	0.39	94.9	-120	0.82		
1331	19.37	6.83	0.669	0.30	81.0	-116	0.82		
1334	19.32	6.83	0.675	0.28	73.1	-118	0.82		
1337	collect		sample						

Certified Sample Information:
Time of Sample: 1337 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF Serial No. Handheld: T5LB70WA
Calibration Date/Time: Lab cal

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10D
Sample I.D.: MW-10D-20210928 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/28/21 Time: 1410
Weather: Rain/cloudy Air Temp.: 66

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: 0.76 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: 30min Volume Pumped: 2.5 G
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-10D-20210928

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

Signature: Rachel Tisdale Date: 9/28/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~22
Project Number: 153021
Date: 9/28/21
Well ID: MW-10D
Sample ID: MW-10D-20210928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1410	7.16	19.13	0.453	2.76	191	-38	0.76	250	
1413	7.05	18.75	0.451	0.51	118	-26	0.76		
1416	6.99	18.60	0.437	0.37	93.7	-18	0.76		
1419	6.97	18.45	0.438	0.31	70.4	-8	0.76		
1422	6.92	18.40	0.440	0.27	66.7	-8	0.76		
1425	6.85	18.30	0.438	0.26	43.9	-5	0.76		
1428	6.85	18.24	0.434	0.26	32.8	-1	0.76		
1431	6.76	18.16	0.429	0.28	27.1	4	0.76		
1434	6.74	18.09	0.421	0.33	25.0	7	0.76		
1437	6.88	18.08	0.418	0.33	17.7	5	0.76		
1440	6.81	18.05	0.431	0.28	15.4	6	0.76		
1443	collect sample								

Certified Sample Information:
Time of Sample: 1443
Analyst Signature: Rachel Eckhardt

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LB70WA
Calibration Date/Time: Lab Cal

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8S
Sample I.D.: MW-8S-20240930 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/28/20 Time: 1448
Weather: cloudy Air Temp.: 66

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: 200mL/min Elapsed Time: 30min Volume Pumped: 2G
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: Rachel Fondale Date: 9/28/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
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:	National Grid	Date:	9/28/21
Personnel:	RES/MHM	Well ID:	MW-8S-20210928
Purge/Sample Depth:	~65	Sample ID:	MW-8S-20210928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1451	6.81	20.52	0.443	1.07	135	-28	0.54	200	
1454	6.70	20.18	0.444	0.18	123	-47	0.54		
1457	6.54	19.98	0.447	0.05	75.6	-47	0.54		
1500	6.67	19.88	0.444	0.01	43.7	-58	0.54		
1503	6.61	19.84	0.442	0.00	21.7	-61	0.54		
1506	6.69	19.84	0.441	0.00	13.2	-60	0.54		
1509	6.61	19.90	0.442	0.00	7.3	-57	0.54		
1512	6.67	19.88	0.441	0.00	6.4	-61	0.54		
1515	6.52	19.84	0.442	0.00	6.5	-55	0.54		
1518	6.53	19.78	0.442	0.00	6.8	-56	0.54		
1521	6.68	19.77	0.441	0.00	7.2	-61	0.54		
1524	collect sample								

Certified Sample Information:
Time of Sample: 1524 Analyst Signature: Rachel Goodale

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF Serial No. Handheld: T5LB70WA
Calibration Date/Time: Lab Cal

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8D
Sample I.D.: MW-8D-20210928 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/28/21 Time: 1327
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: 0.46 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 G
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: Rachel Endale Date: 9/28/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~22

Project Number: 153021
Date: 9/28/21
Well ID: MW-8D
Sample ID: MW-8D-20210928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1530	6.33	19.24	0.416	1.12	29.2	-2	0.43	250	
1533	6.11	18.35	0.429	0.67	19.0	25	0.43		
1536	6.06	18.10	0.444	0.40	13.5	47	0.43		
1539	6.00	17.96	0.461	0.24	9.8	63	0.43		
1542	5.90	17.84	0.480	0.15	8.1	86	0.43		
1545	5.84	17.80	0.495	0.12	7.2	97	0.43		
1548	5.88	17.74	0.502	0.10	6.8	110	0.43		
1551	5.91	17.65	0.510	0.09	6.5	114	0.43		
1554	5.85	17.60	0.511	0.08	7.4	116	0.43		
1557	5.91	17.48	0.519	0.08	6.0	118	0.42		
1600	5.91	17.47	0.519	0.07	5.8	124	0.43		
1603	Collect		Sample						

Certified Sample Information:
Time of Sample: 1603
Analyst Signature: Rachel Eckdahl

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LB70WA
Calibration Date/Time: Lab cal

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7S
Sample I.D.: MW-7S-20210929 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 0810
Weather: Sunny Air Temp.: 55

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: 4.20 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: 175 mL/min Elapsed Time: 30 min Volume Pumped: 1.75G
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: Rachel Sandale Date: 9/29/21

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
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:	National Grid	Date:	9/29/21
Personnel:	RES/MHM	Well ID:	MW-75
Purge/Sample Depth:	~10	Sample ID:	MW-75-202109

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0815	6.26	17.51	0.672	0.59	0.0	-20	4.38	175	
0818	6.86	17.55	0.665	0.12	0.0	-106	4.35		
0821	6.90	17.56	0.653	0.07	0.0	-115	4.32		
0824	6.92	17.57	0.638	0.05	0.0	-126	4.30		
0827	6.94	17.63	0.625	0.00	0.0	-136	4.30		
0830	6.97	17.64	0.624	0.00	0.0	-139	4.30		
0833	7.02	17.65	0.618	0.00	0.0	-141	4.30		
0836	6.99	17.66	0.612	0.00	0.0	-142	4.30		
0839	6.98	17.67	0.609	0.00	0.0	-140	4.30		
0842	7.00	17.67	0.603	0.00	0.0	-142	4.30		
0845	7.02	17.67	0.600	0.00	0.0	-147	4.30		
0848	Collect	Sample							

Certified Sample Information:
Time of Sample: 0848 Analyst Signature: Rachel Caddell

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF Serial No. Handheld: T5LB70WA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7D
Sample I.D.: MW-7D-20210929 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 0850
Weather: Sunny Air Temp.: 57

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: 4.03 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 G
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: Rachel Scudale Date: 9/29/21

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~25.5

Project Number: 153021
Date: 9/29/21
Well ID: MW-7D
Sample ID: MW-7D-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0853	6.55	16.40	0.360	2.90	1.5	-26	4.08	225	
0856	6.20	16.13	0.362	1.93	0.0	4	4.07		
0859	5.88	15.94	0.362	1.53	0.0	50	4.06		
0902	5.79	15.84	0.361	1.41	0.0	71	4.06		
0905	5.77	15.81	0.360	1.37	0.0	79	4.05		
0908	5.71	15.78	0.359	1.35	0.0	96	4.05		
0911	5.72	15.75	0.359	1.34	0.0	100	4.05		
0914	5.79	15.75	0.358	1.35	0.0	115	4.05		
0917	5.70	15.72	0.358	1.33	0.0	126	4.05		
0920	5.70	15.71	0.358	1.33	0.0	129	4.05		
0923	5.71	15.72	0.357	1.31	0.0	127	4.05		
0926	Collect sample								

Certified Sample Information:
Time of Sample: 0926
Analyst Signature: Rachel Endall

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LB70WA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-14S
Sample I.D.: MW-14S-20210929 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 0933
Weather: Sunny Air Temp.: 61

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: 0.86 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 G
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: Rachel Fandale Date: 9/29/21

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~10

Project Number: 153021
Date: 9/29/21
Well ID: MW-14S
Sample ID: MW-14S-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0939	6.31	17.88	0.520	0.55	12.4	80	0.89	250	
0942	6.77	18.33	0.523	0.00	89.6	56	0.89		
0945	6.80	18.42	0.522	0.00	63.4	49	0.89		
0948	6.87	18.48	0.522	0.00	47.7	41	0.89		
0951	6.92	18.53	0.522	0.00	35.5	39	0.89		
0954	6.84	18.57	0.522	0.00	22.7	40	0.89		
0957	6.91	18.59	0.522	0.00	13.3	37	0.89		
1000	6.99	18.61	0.523	0.00	4.8	34	0.89		
1003	6.95	18.63	0.524	0.00	0.0	31	0.89		
1006	7.00	18.65	0.525	0.00	0.0	29	0.89		
1009	6.97	18.68	0.525	0.00	0.0	30	0.89		
1012	Collect sample								

Certified Sample Information:
Time of Sample: 1012
Analyst Signature: Rachel Scalafani

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LB70WA
Calibration Date/Time: 09/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-14D
Sample I.D.: MW-14D-20210929 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1015
Weather: Sunny Air Temp.: 63

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: 0.82 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: ____ Elapsed Time: ____ Volume Pumped: ____
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: ____

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~18.5

Project Number: 153021
Date: 9/29/21
Well ID: MW-14D
Sample ID: MW-14D-20210929

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1018	6.05	17.33	0.641	1.12	150	115	0.85	250	
1021	5.41	17.00	0.656	0.08	147	164	0.83		
1024	5.32	16.90	0.658	0.00	171	185	0.82		
1027	5.28	16.77	0.656	0.00	201	193	0.82		
1030	5.27	16.59	0.655	0.00	249	214	0.82		
1033	5.26	16.55	0.655	0.00	230	223	0.82		
1036	5.30	16.55	0.654	0.00	222	224	0.82		
1039	5.28	16.54	0.655	0.00	201	228	0.82		
1042	5.23	16.52	0.656	0.00	188	231	0.82		
1045	5.25	16.51	0.655	0.00	191	233	0.82		
1048									clean chamber
1051	5.12	16.54	0.655	0.44	139	214	0.82		
1054	5.24	16.57	0.655	0.00	124	226	0.82		
1057	5.25	16.56	0.655	0.00	105	236	0.83		
1100	5.27	16.59	0.655	0.00	82.7	241	0.82		
1103	5.25	16.58	0.654	0.00	77.8	245	0.82		
1106	5.21	16.60	0.654	0.00	76.5	250	0.82		
1109	Collect	Sample							

Certified Sample Information:
Time of Sample: 1109
Analyst Signature: Rachel Sendall

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LB70WA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12S
Sample I.D.: MW-12S-20210929 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1210
Weather: Sunny Air Temp.: 64

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: 1.38 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: 225 mL/min Elapsed Time: 30 min Volume Pumped: 2.25 L
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: Rachel Ecksle Date: 9/29/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~11
Project Number: 153021
Date: 9/29/21
Well ID: MW-12S
Sample ID: MW-12S-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1214	5.99	19.90	0.342	2.35	0.0	161	1.38	225	
1217	6.31	19.03	0.340	0.60	0.0	132	1.38		
1220	6.39	18.86	0.336	0.29	0.0	118	1.38		
1223	6.50	18.73	0.334	0.19	0.0	103	1.38		
1226	6.55	18.66	0.333	0.10	0.0	91	1.38		
1229	6.69	18.55	0.333	0.03	0.0	69	1.38		
1232	6.73	18.48	0.333	0.00	0.0	60	1.38		
1235	6.79	18.48	0.334	0.00	0.0	45	1.38		
1238	6.79	18.41	0.335	0.00	0.0	43	1.38		
1241	6.83	18.37	0.336	0.00	0.0	34	1.38		
1244	6.84	18.35	0.337	0.00	0.0	25	1.38		
1247	Collect Sample								

Certified Sample Information:
Time of Sample: ~~09~~ 1247
Analyst Signature: Rachel Fendall

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: TSLB70W4
Calibration Date/Time: 9/29/21

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12D
Sample I.D.: MW-12D-20210929 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1250
Weather: Sunny Air Temp.: 66

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: 1.25 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 G
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: Rachel Scudale Date: 9/29/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~21
Project Number: 153021
Date: 9/29/21
Well ID: MW-12D
Sample ID: MW-12D-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1253	6.35	17.70	0.505	2.45	0.0	142	1.23	250	
1256	5.16	17.09	0.532	0.24	0.0	211	1.23		
1259	5.07	16.97	0.536	0.00	0.0	234	1.23		
1302	5.04	16.83	0.539	0.00	0.0	252	1.23		
1305	5.05	16.80	0.540	0.00	0.0	256	1.23		
1308	5.06	16.74	0.539	0.00	0.0	262	1.23		
1311	5.03	16.69	0.540	0.00	0.0	270	1.23		
1314	5.00	16.67	0.539	0.00	0.0	275	1.23		
1317	5.00	16.65	0.539	0.00	0.0	279	1.23		
1320	5.00	16.63	0.539	0.00	0.0	280	1.23		
1323	5.02	16.59	0.539	0.00	0.0	281	1.23		
1326	Collect sample								

Certified Sample Information:
Time of Sample: 1326
Analyst Signature: [signature]

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: TGLB70WA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11S
Sample I.D.: MW-11S-20210929 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1343
Weather: Sunny Air Temp.: 66

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: 0.68 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: _____ Elapsed Time: _____ Volume Pumped: _____
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: Rachel Sadale Date: 9/29/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~11
Project Number: 153021
Date: 9/29/21
Well ID: MW-11S
Sample ID: MW-11S-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1347	6.12	21.18	0.466	1.70	200	-20	0.70	150	
1350	6.58	21.36	0.497	0.27	187	-7	0.68		
1353	6.67	21.35	0.508	0.04	150	-92	0.68		
1356	6.73	21.34	0.511	0.00	139	-99	0.68		
1359	6.85	21.25	0.521	0.00	68.8	-107	0.68		
1402	6.80	21.40	0.530	0.00	68.6	-111	0.68		
1405	6.88	21.33	0.522	0.00	55.3	-114	0.68		
1408	6.90	21.37	0.522	0.00	61.9	-117	0.68		
1411	6.88	21.29	0.524	0.00	43.2	-121	0.68		
1414	6.87	21.23	0.524	0.00	42.8	-124	0.68		
1417	6.88	21.19	0.524	0.00	34.9	-122	0.68		
1420	Collect Sample								

Certified Sample Information:
Time of Sample: 1420
Analyst Signature: Michael Zadale

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: TSLB70WA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11D
Sample I.D.: MW-11D-20210921 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1422
Weather: Sun Air Temp.: 66

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: 0.78 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: 2G
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: Rachel Scudder Date: 9/29/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~20.5
Project Number: 153021
Date: 9/21/21
Well ID: MW-11D
Sample ID: MW-11D-20210929

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1426	6.65	20.28	0.431	2.41	0.0	-34	0.79	200	
1429	6.59	19.57	0.514	0.57	0.0	-10	0.79		
1432	6.64	19.25	0.541	0.09	0.0	-4	0.79		
1435	6.63	19.14	0.555	0.00	0.0	-13	0.79		
1438	6.61	18.92	0.565	0.00	0.0	-19	0.79		
1441	6.53	18.82	0.567	0.00	0.0	-27	0.79		
1444	6.54	18.74	0.564	0.00	0.0	-30	0.79		
1447	6.55	18.69	0.562	0.00	0.0	-33	0.79		
1450	6.61	18.68	0.561	0.00	0.0	-33	0.79		
1453	6.54	18.60	0.560	0.00	0.0	-31	0.79		
1456	6.56	18.53	0.560	0.00	0.0	-34	0.79		
1459	collect sample								

Certified Sample Information:
Time of Sample: 1459
Analyst Signature: Rachel Ecdale

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LBTØWA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-4S
Sample I.D.: MW-4S-20210929 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1513
Weather: Sunny Air Temp.: 66

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: 200mL/min Elapsed Time: 36 min Volume Pumped: 2.25 G
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: 9/29/21

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~10

Project Number: 153021
Date: 9/29/21
Well ID: MW-4S
Sample ID: MW-4S-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1520	6.67	20.04	0.615	1.28	885	-56	4.74	200	
1523	6.77	19.36	0.632	0.06	"1000+"	-87	4.71		
1526	7.00	19.31	0.632	0.00	869	-103	4.72		
1529	7.08	19.23	0.633	0.00	706	-111	4.73		
1532	7.09	19.07	0.635	0.00	522	-118	4.73		
1535	6.89	18.71	0.640	0.00	282	-104	4.73		
1538	6.94	18.77	0.642	0.20	233	-115	4.73		
1541	6.94	18.73	0.643	0.00	147	-121	4.73		
1544	7.06	18.70	0.643	0.00	109	-132	4.73		
1547	7.17	18.68	0.644	0.00	61.4	-142	4.73		
1550	7.22	18.66	0.644	0.00	44.4	-149	4.73		
1553	7.25	18.63	0.645	0.00	37.6	-153	4.73		
1556	7.22	18.60	0.645	0.00	35.2	-153	4.73		
1559	collect	Sample							

Certified Sample Information:
Time of Sample: 1559
Analyst Signature: Rachel Sandall

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4SF
Serial No. Handheld: TSLBTOWA
Calibration Date/Time: 9/29/21 0800

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-4D
Sample I.D.: MW-4D-20210929 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/29/21 Time: 1602
Weather: Sunny Air Temp.: 66

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: 4.37 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 G
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: Robert Sandale Date: 9/29/21

Brown AND Caldwell

500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~23.5

Project Number: 153021
Date: 9/29/21
Well ID: MW-4D
Sample ID: MW-4D-20210929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1605	6.73	18.18	0.541	2.85	0.0	-34	4.34	225	
1608	6.01	17.37	0.559	0.69	0.0	-34	4.36		
1611	5.80	16.92	0.579	0.00	0.0	71	4.35		
1614	5.74	16.75	0.585	0.00	0.0	83	4.35		
1617	5.69	16.63	0.589	0.00	0.0	95	4.34		
1620	5.68	16.57	0.592	0.00	0.0	104	4.34		
1623	5.71	16.55	0.594	0.00	0.0	108	4.34		
1626	5.76	16.54	0.595	0.00	0.0	110	4.34		
1629	5.80	16.51	0.596	0.00	0.0	113	4.34		
1632	5.87	16.47	0.598	0.00	0.0	116	4.34		
1635	5.87	16.47	0.599	0.00	0.0	118	4.34		
1638	collect sample								

Certified Sample Information:
Time of Sample: 1638
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LBTOWA
Calibration Date/Time: 9/29/21

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-3
Sample I.D.: MW-3-20210930 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/30/21 Time: 0740
Weather: SUN Air Temp.: 56

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: 1.60 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: 2G
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: DUP-20210930
MS/MSD : ☒ No ☐ Yes Name: _____

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

Signature: Rachel Sondale Date: 9/30/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~7.5
Project Number: 153021
Date: 9/30/21
Well ID: MW-3 (2019)
Sample ID: MW-3-20210930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0749	8.75	18.99	0.563	0.66	66.4	-142	1.71	200	
0752	9.90	19.65	0.550	0.18	87.5	-206	1.72		
0755	10.14	19.71	0.556	0.04	86.4	-200	1.70		
0758	10.26	19.78	0.562	0.00	73.3	-216	1.68		
0801	10.45	19.80	0.575	0.00	44.4	-227	1.68		
0804	10.59	19.87	0.587	0.00	27.0	-233	1.70		
0807	10.86	19.89	0.611	0.00	10.5	-248	1.70		
0810	11.00	19.82	0.624	0.00	8.4	-254	1.70		
0813	10.97	19.85	0.645	0.00	8.1	-255	1.70		
0816	11.03	19.86	0.658	0.00	7.4	-259	1.70		
0819	11.09	19.90	0.663	0.00	6.2	-262	1.70		moderate mothball like odor
0822	collect sample								

Certified Sample Information:
Time of Sample: 0822
Analyst Signature: Rachel Beadle

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW44F
Serial No. Handheld: T5LBTOWA
Calibration Date/Time: 9/30/21 0740

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-135
Sample I.D.: MW-135-20210930 (If different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/30/21 Time: 0835
Weather: SUN Air Temp.: 56

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: 1.25 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: 33 min Volume Pumped: 2 G
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: [signature] Date: 9/30/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
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:	National Grid	Date:	9/30/21
Personnel:	RES/MHM	Well ID:	MW-13S
Purge/Sample Depth:	~11	Sample ID:	MW-13S-20210930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0838	9.47	19.34	0.584	1.08	97.2	-169	1.29	200	
0841	9.19	19.43	0.588	0.00	114	-238	1.28		
0844	9.33	19.45	0.592	0.00	126	-285	1.27		
0847	9.32	19.48	0.592	0.00	130	-296	1.27		
0850	9.39	19.51	0.593	0.00	128	-316	1.29		
0853	9.44	19.57	0.591	0.00	119	-330	1.31		
0856	9.63	19.65	0.592	0.00	108	-350	1.31		
0859	9.76	19.65	0.591	0.00	105	-361	1.32		
0902	9.77	19.66	0.587	0.00	99.8	-371	1.33		
0905	9.75	19.70	0.584	0.00	97.9	-374	1.35		
0908	9.74	19.71	0.583	0.00	94.8	-377	1.35		
0911	9.78	19.72	0.582	0.00	92.4	-384	1.36		
0914	Collect Sample								

Certified Sample Information:
Time of Sample: 0914 Analyst Signature: [signature]

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BVW4YF Serial No. Handheld: T5LBTOWA
Calibration Date/Time: 9/30/21 0740

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

Ramsey, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D
Sample I.D.: MW-13D-20210930 (if different from well no.)

Project: Patchogue
Personnel: RES/MHM

Date: 9/30/21 Time: 0917
Weather: Sunny Air Temp.: 61

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 G
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: Rachel Scudale Date: 9/30/21

Brown AND Caldwell
500 North Franklin Tpk, Ramsey, NJ 07446
Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name: Patchogue
Client: National Grid
Personnel: RES/MHM
Purge/Sample Depth: ~20

Project Number: 153021
Date: 9/30/21
Well ID: MW-13D
Sample ID: MW-13D-20210930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0922	7.13	16.99	0.505	0.37	88.4	-8	1.24	200	
0925	6.79	16.74	0.518	0.00	67.1	9	1.24		
0928	6.55	16.61	0.522	0.00	51.3	26	1.24		
0931	6.39	16.57	0.522	0.00	39.9	35	1.24		
0934	6.29	16.51	0.522	0.00	32.1	45	1.24		
0937	6.17	16.43	0.522	0.00	22.4	55	1.24		
0940	6.24	16.43	0.522	0.00	21.2	57	1.24		
0943	6.07	16.34	0.521	0.00	18.8	68	1.24		
0946	6.08	16.36	0.522	0.00	16.0	71	1.24		
0949	6.06	16.34	0.521	0.00	13.5	77	1.24		
0952	6.04	16.34	0.521	0.00	10.6	78	1.24		
0955	Collected Sample								

Certified Sample Information:
Time of Sample: 0955

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: T5LBTOWA
Calibration Date/Time: 9/30/21 0740

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.

Appendix B: Laboratory Reports

ANALYTICAL REPORT

Job Number: 410-57303-1

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
10/15/2021 2:28 PM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
Barbara.Weyandt@eurofinset.com
10/15/2021

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: 410-57303-1

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.

Table of Contents

Cover Title Page 1

Data Summaries 5

- Report Narrative 5
- Sample Summary 6
- Detection Summary 7
- Method Summary 11
- Client Sample Results 12
- Surrogate Summary 29
- QC Sample Results 31
- Definitions 36
- QC Association 37
- Chronicle 40
- Certification Summary 45

Organic Sample Data 46

- GC/MS VOA 46
  - Method 8260C 46
    - Method 8260C QC Summary 47
    - Method 8260C Sample Data 58
    - Standards Data 145
      - Method 8260C ICAL Data 145
      - Method 8260C CCAL Data 420
    - Raw QC Data 451
      - Method 8260C Tune Data 451
      - Method 8260C Blank Data 459
      - Method 8260C LCS/LCSD Data 467
      - Method 8260C MS/MSD Data 473

Table of Contents

Method 8260C Run Logs 483

Method 8260C Prep Data 485

GC/MS Semi VOA 492

Method 8270D SIM 492

Method 8270D SIM QC Summary 493

Method 8270D SIM Sample Data 533

Standards Data 850

Method 8270D SIM ICAL Data 850

Method 8270D SIM Resolution Data 979

Method 8270D SIM CCAL Data 988

Raw QC Data 1039

Method 8270D SIM Tune Data 1039

Method 8270D SIM Blank Data 1120

Method 8270D SIM LCS/LCSD Data 1134

Method 8270D SIM MS/MSD Data 1151

Method 8270D SIM Run Logs 1169

Method 8270D SIM Prep Data 1178

Shipping and Receiving Documents 1185

Client Chain of Custody 1186

Sample Receipt Checklist 1188

Job Narrative
410-57303-1

Comments
No additional comments.

Receipt
The samples were received on 9/30/2021 7:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.8º C, 0.8º C and 2.0º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-7S-20210929 (410-57303-6). The container labels list 09:48, while the COC lists 08:48.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-12D-20210929 (410-57303-11). The container labels list MW-12S-20210929 for 2 40ml HCl vials, while the COC lists MW-12D-20210929.

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

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

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

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

Sample Summary

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

Job ID: 410-57303-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-57303-1	MW-1-20210928	Ground Water	09/28/21 11:16	09/30/21 19:30
410-57303-2	MW-10S-20210928	Ground Water	09/28/21 13:37	09/30/21 19:30
410-57303-3	MW-10D-20210928	Ground Water	09/28/21 14:43	09/30/21 19:30
410-57303-4	MW-8S-20210928	Ground Water	09/28/21 15:24	09/30/21 19:30
410-57303-5	MW-8D-20210928	Ground Water	09/28/21 16:03	09/30/21 19:30
410-57303-6	MW-7S-20210929	Ground Water	09/29/21 08:48	09/30/21 19:30
410-57303-7	MW-7D-20210929	Ground Water	09/29/21 09:26	09/30/21 19:30
410-57303-8	MW-14S-20210929	Ground Water	09/29/21 10:12	09/30/21 19:30
410-57303-9	MW-14D-20210929	Ground Water	09/29/21 11:09	09/30/21 19:30
410-57303-10	MW-12S-20210929	Ground Water	09/29/21 12:47	09/30/21 19:30
410-57303-11	MW-12D-20210929	Ground Water	09/29/21 13:26	09/30/21 19:30
410-57303-12	FB-20210929	Water	09/29/21 13:40	09/30/21 19:30
410-57303-13	MW-11S-20210929	Ground Water	09/29/21 14:20	09/30/21 19:30
410-57303-14	MW-11D-20210929	Ground Water	09/29/21 14:59	09/30/21 19:30
410-57303-15	MW-4S-20210929	Ground Water	09/29/21 15:59	09/30/21 19:30
410-57303-16	MW-4D-20210929	Ground Water	09/29/21 16:38	09/30/21 19:30
410-57303-17	MW-3-20210930	Ground Water	09/30/21 08:22	09/30/21 19:30
410-57303-18	MW-13S-20210930	Ground Water	09/30/21 09:14	09/30/21 19:30
410-57303-19	MW-13D-20210930	Ground Water	09/30/21 09:55	09/30/21 19:30
410-57303-20	DUP-20210930	Ground Water	09/30/21 00:00	09/30/21 19:30
410-57303-21	TripBlank-20210930	Water	09/30/21 00:00	09/30/21 19:30

Detection Summary

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

Job ID: 410-57303-1

Client Sample ID: MW-1-20210928 — Lab Sample ID: 410-57303-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.021	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.016	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.046	J B	0.072	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-10S-20210928 — Lab Sample ID: 410-57303-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.011	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.013	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.011	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.013	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.036	J B	0.072	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: MW-10D-20210928 — Lab Sample ID: 410-57303-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.052	J B	0.072	0.031	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-8S-20210928 — Lab Sample ID: 410-57303-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.18		0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-8D-20210928 — Lab Sample ID: 410-57303-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.012	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.017	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.025	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.030	J	0.071	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	0.027	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-7S-20210929 — Lab Sample ID: 410-57303-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.033	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.024	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.013	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-7D-20210929 — Lab Sample ID: 410-57303-7

No Detections.

Client Sample ID: MW-14S-20210929 — Lab Sample ID: 410-57303-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.083		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.012	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.16	B	0.071	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	0.022	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: 410-57303-1

Client Sample ID: MW-14D-20210929 — Lab Sample ID: 410-57303-9

No Detections.

Client Sample ID: MW-12S-20210929 — Lab Sample ID: 410-57303-10

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-12D-20210929 — Lab Sample ID: 410-57303-11

No Detections.

Client Sample ID: FB-20210929 — Lab Sample ID: 410-57303-12

No Detections.

Client Sample ID: MW-11S-20210929 — Lab Sample ID: 410-57303-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.95		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.024	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.044	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.059		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.039	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.042	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.019	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.016	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.074		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.17		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.16		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.073	B	0.073	0.031	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.11		0.073	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	0.23		0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-11D-20210929 — Lab Sample ID: 410-57303-14

No Detections.

Client Sample ID: MW-4S-20210929 — Lab Sample ID: 410-57303-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0		1.0	0.30	ug/L	1		8260C	Total/NA
Acenaphthylene	0.25		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Anthracene	0.22		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Fluoranthene	4.4		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Fluorene	6.5		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.059	J B	0.075	0.032	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.10		0.075	0.032	ug/L	1		8270D SIM	Total/NA
Pyrene	4.9		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	16		0.27	0.053	ug/L	5		8270D SIM	Total/NA

Client Sample ID: MW-4D-20210929 — Lab Sample ID: 410-57303-16

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-57303-1

Client Sample ID: MW-3-20210930 — Lab Sample ID: 410-57303-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.91	J	1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	2.9		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.76	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	6.4		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Anthracene	2.2		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	1.5		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.013	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.025	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Chrysene	0.88		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	46		0.26	0.053	ug/L	5		8270D SIM	Total/NA
Fluoranthene - DL	17		0.26	0.053	ug/L	5		8270D SIM	Total/NA
Fluorene - DL	14		0.26	0.053	ug/L	5		8270D SIM	Total/NA
Phenanthrene - DL	20		0.37	0.16	ug/L	5		8270D SIM	Total/NA
Pyrene - DL	22		0.26	0.053	ug/L	5		8270D SIM	Total/NA
Naphthalene - DL2	110		1.5	0.63	ug/L	20		8270D SIM	Total/NA

Client Sample ID: MW-13S-20210930 — Lab Sample ID: 410-57303-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	1.2		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.56	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.67	J	1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	1.2		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	6.0		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	1.2		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.057		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.073		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.030	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.82		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	5.4		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	9.7		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	7.1		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	31		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	41		0.72	0.31	ug/L	10		8270D SIM	Total/NA
Phenanthrene - DL	36		0.72	0.31	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-13D-20210930 — Lab Sample ID: 410-57303-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.032	J	0.073	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	0.014	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: DUP-20210930 — Lab Sample ID: 410-57303-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.98	J	1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	2.9		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.77	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	4.4		1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthene	49		0.52	0.10	ug/L	10		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-20210930 (Continued) — Lab Sample ID: 410-57303-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	6.3		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Anthracene	2.4		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Benzo[a]anthracene	1.6		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Chrysene	0.94		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Fluoranthene	18		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Fluorene	15		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Phenanthrene	19		0.73	0.31	ug/L	10		8270D SIM	Total/NA
Pyrene	24		0.52	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	130		3.7	1.6	ug/L	50		8270D SIM	Total/NA

Client Sample ID: TripBlank-20210930 — Lab Sample ID: 410-57303-21

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 410-57303-1

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-1-20210928

Date Collected: 09/28/21 11:16
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-1
Matrix: Ground 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			10/11/21 12:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 12:42	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 12:42	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 12:42	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*10/11/21 12:42*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*10/11/21 12:42*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 12:42*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/11/21 12:42*	*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		10/04/21 17:05	10/07/21 18:07	1
Acenaphthylene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Anthracene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Benzo[a]anthracene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Benzo[a]pyrene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Benzo[b]fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Chrysene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Dibenz(a,h)anthracene	ND			0.051	0.021	ug/L		10/04/21 17:05	10/07/21 18:07	1
Fluoranthene	**0.021**	**J**		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Fluorene	**0.016**	**J**		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.021	ug/L		10/04/21 17:05	10/07/21 18:07	1
Naphthalene	**0.046**	**J B**	UJ-RC:2	0.260	0.046	ug/L		10/04/21 17:05	10/07/21 18:07	1
Phenanthrene	ND			0.072	0.031	ug/L		10/04/21 17:05	10/07/21 18:07	1
Pyrene	**0.017**	**J**		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*74*		*10 - 110*	*10/04/21 17:05*	*10/07/21 18:07*	*1*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*10/04/21 17:05*	*10/07/21 18:07*	*1*
Fluoranthene-d10 (Surr)	*108*		*47 - 128*	*10/04/21 17:05*	*10/07/21 18:07*	*1*

Client Sample ID: MW-10S-20210928

Date Collected: 09/28/21 13:37
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-2
Matrix: Ground 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			10/11/21 13:05	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 13:05	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 13:05	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 13:05	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/11/21 13:05*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/11/21 13:05*	*1*

Client Sample ID: MW-10S-20210928

Date Collected: 09/28/21 13:37
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-2

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/11/21 13:05*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 13:05*	*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		10/04/21 17:05	10/07/21 18:37	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Benzo[a]anthracene	**0.012**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Benzo[a]pyrene	**0.011**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Benzo[b]fluoranthene	**0.013**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Benzo[g,h,i]perylene	**0.011**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Chrysene	**0.013**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Dibenz(a,h)anthracene	ND		0.051	0.021	ug/L		10/04/21 17:05	10/07/21 18:37	1
Fluoranthene	**0.012**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Fluorene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		10/04/21 17:05	10/07/21 18:37	1
Naphthalene	**0.036**	**J B** UJ-RC:2	0.260	0.036	ug/L		10/04/21 17:05	10/07/21 18:37	1
Phenanthrene	ND		0.072	0.031	ug/L		10/04/21 17:05	10/07/21 18:37	1
Pyrene	**0.014**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*85*		*10 - 110*	*10/04/21 17:05*	*10/07/21 18:37*	*1*
1-Methylnaphthalene-d10 (Surr)	*85*		*36 - 111*	*10/04/21 17:05*	*10/07/21 18:37*	*1*
Fluoranthene-d10 (Surr)	*106*		*47 - 128*	*10/04/21 17:05*	*10/07/21 18:37*	*1*

Client Sample ID: MW-10D-20210928

Date Collected: 09/28/21 14:43
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-3

Matrix: Ground 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			10/11/21 11:35	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 11:35	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 11:35	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 11:35	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*10/11/21 11:35*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*10/11/21 11:35*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*10/11/21 11:35*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/11/21 11:35*	*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		10/04/21 17:05	10/07/21 15:09	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1

Client Sample ID: MW-10D-20210928

Date Collected: 09/28/21 14:43
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-3
Matrix: Ground Water

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			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Benzo[a]pyrene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Benzo[b]fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Chrysene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Dibenz(a,h)anthracene	ND			0.051	0.021	ug/L		10/04/21 17:05	10/07/21 15:09	1
Fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Fluorene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.021	ug/L		10/04/21 17:05	10/07/21 15:09	1
Naphthalene	**0.052**	**J B**	UJ-RC:2	0.260	0.052	ug/L		10/04/21 17:05	10/07/21 15:09	1
Phenanthrene	ND			0.072	0.031	ug/L		10/04/21 17:05	10/07/21 15:09	1
Pyrene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/07/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*67*		*10 - 110*	*10/04/21 17:05*	*10/07/21 15:09*	*1*
1-Methylnaphthalene-d10 (Surr)	*70*		*36 - 111*	*10/04/21 17:05*	*10/07/21 15:09*	*1*
Fluoranthene-d10 (Surr)	*92*		*47 - 128*	*10/04/21 17:05*	*10/07/21 15:09*	*1*

Client Sample ID: MW-8S-20210928

Date Collected: 09/28/21 15:24
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-4
Matrix: Ground 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			10/11/21 13:27	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 13:27	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 13:27	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 13:27	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/11/21 13:27*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 13:27*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 13:27*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/11/21 13:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.18**		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Chrysene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/07/21 19:06	1
Fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1
Fluorene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1

Client Sample ID: MW-8S-20210928

Date Collected: 09/28/21 15:24
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-4
Matrix: Ground Water

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		0.051	0.020	ug/L		10/04/21 17:05	10/07/21 19:06	1
Naphthalene	ND		0.071	0.031	ug/L		10/04/21 17:05	10/07/21 19:06	1
Phenanthrene	ND		0.071	0.031	ug/L		10/04/21 17:05	10/07/21 19:06	1
Pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*85*		*10 - 110*	*10/04/21 17:05*	*10/07/21 19:06*	*1*
1-Methylnaphthalene-d10 (Surr)	*83*		*36 - 111*	*10/04/21 17:05*	*10/07/21 19:06*	*1*
Fluoranthene-d10 (Surr)	*107*		*47 - 128*	*10/04/21 17:05*	*10/07/21 19:06*	*1*

Client Sample ID: MW-8D-20210928

Date Collected: 09/28/21 16:03
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-5
Matrix: Ground 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			10/11/21 13:49	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 13:49	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 13:49	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 13:49	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/11/21 13:49*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/11/21 13:49*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/11/21 13:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/11/21 13:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Acenaphthylene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Anthracene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Benzo[b]fluoranthene	**0.012**	**J**	0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Chrysene	**0.017**	**J**	0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		10/04/21 17:05	10/07/21 19:36	1
Fluoranthene	**0.025**	**J**	0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Fluorene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		10/04/21 17:05	10/07/21 19:36	1
Naphthalene	ND		0.071	0.030	ug/L		10/04/21 17:05	10/07/21 19:36	1
Phenanthrene	**0.030**	**J**	0.071	0.030	ug/L		10/04/21 17:05	10/07/21 19:36	1
Pyrene	**0.027**	**J**	0.050	0.010	ug/L		10/04/21 17:05	10/07/21 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*75*		*10 - 110*	*10/04/21 17:05*	*10/07/21 19:36*	*1*
1-Methylnaphthalene-d10 (Surr)	*78*		*36 - 111*	*10/04/21 17:05*	*10/07/21 19:36*	*1*
Fluoranthene-d10 (Surr)	*99*		*47 - 128*	*10/04/21 17:05*	*10/07/21 19:36*	*1*

Client Sample ID: MW-7S-20210929

Date Collected: 09/29/21 08:48
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-6
Matrix: Ground 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			10/11/21 14:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 14:12	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 14:12	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 14:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*10/11/21 14:12*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 14:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 14:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 14:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.033**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Anthracene	**0.024**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Chrysene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/07/21 20:06	1
Fluoranthene	**0.017**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Fluorene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/07/21 20:06	1
Naphthalene	ND		0.071	0.030	ug/L		10/04/21 17:05	10/07/21 20:06	1
Phenanthrene	ND		0.071	0.030	ug/L		10/04/21 17:05	10/07/21 20:06	1
Pyrene	**0.013**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/07/21 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*10/04/21 17:05*	*10/07/21 20:06*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*36 - 111*	*10/04/21 17:05*	*10/07/21 20:06*	*1*
Fluoranthene-d10 (Surr)	*104*		*47 - 128*	*10/04/21 17:05*	*10/07/21 20:06*	*1*

Client Sample ID: MW-7D-20210929

Date Collected: 09/29/21 09:26
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-7
Matrix: Ground 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			10/11/21 14:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 14:33	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 14:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 14:33	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/11/21 14:33*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/11/21 14:33*	*1*

Client Sample ID: MW-7D-20210929

Date Collected: 09/29/21 09:26
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-7

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 14:33*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 14:33*	*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		10/04/21 17:05	10/08/21 13:22	1
Acenaphthylene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Anthracene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Chrysene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		10/04/21 17:05	10/08/21 13:22	1
Fluoranthene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Fluorene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		10/04/21 17:05	10/08/21 13:22	1
Naphthalene	ND		0.075	0.032	ug/L		10/04/21 17:05	10/08/21 13:22	1
Phenanthrene	ND		0.075	0.032	ug/L		10/04/21 17:05	10/08/21 13:22	1
Pyrene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*80*		*10 - 110*	*10/04/21 17:05*	*10/08/21 13:22*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*10/04/21 17:05*	*10/08/21 13:22*	*1*
Fluoranthene-d10 (Surr)	*97*		*47 - 128*	*10/04/21 17:05*	*10/08/21 13:22*	*1*

Client Sample ID: MW-14S-20210929

Date Collected: 09/29/21 10:12
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-8

Matrix: Ground 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			10/11/21 14:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 14:55	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 14:55	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 14:55	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/11/21 14:55*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/11/21 14:55*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 14:55*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 14:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.083**		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1

Client Sample ID: MW-14S-20210929

Date Collected: 09/29/21 10:12
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-8

Matrix: Ground Water

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			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Benzo[a]pyrene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Benzo[b]fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Benzo[g,h,i]perylene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Benzo[k]fluoranthene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Chrysene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Dibenz(a,h)anthracene	ND			0.051	0.020	ug/L		10/04/21 17:05	10/08/21 13:51	1
Fluoranthene	**0.012**	**J**		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Fluorene	ND			0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1
Indeno[1,2,3-cd]pyrene	ND			0.051	0.020	ug/L		10/04/21 17:05	10/08/21 13:51	1
Naphthalene	**0.16**	**B**	UJ-RC:2	0.260	0.16	ug/L		10/04/21 17:05	10/08/21 13:51	1
Phenanthrene	ND			0.071	0.030	ug/L		10/04/21 17:05	10/08/21 13:51	1
Pyrene	**0.022**	**J**		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*83*		*10 - 110*	*10/04/21 17:05*	*10/08/21 13:51*	*1*
1-Methylnaphthalene-d10 (Surr)	*78*		*36 - 111*	*10/04/21 17:05*	*10/08/21 13:51*	*1*
Fluoranthene-d10 (Surr)	*104*		*47 - 128*	*10/04/21 17:05*	*10/08/21 13:51*	*1*

Client Sample ID: MW-14D-20210929

Date Collected: 09/29/21 11:09
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-9

Matrix: Ground 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			10/11/21 15:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 15:18	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 15:18	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 15:18	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/11/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 15:18*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 15:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 15:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Acenaphthylene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Anthracene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Benzo[a]anthracene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Benzo[a]pyrene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Benzo[b]fluoranthene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Benzo[g,h,i]perylene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Benzo[k]fluoranthene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Chrysene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Dibenz(a,h)anthracene	ND		0.055	0.022	ug/L		10/04/21 17:05	10/08/21 14:21	1
Fluoranthene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1
Fluorene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1

Client Sample ID: MW-14D-20210929

Date Collected: 09/29/21 11:09
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-9

Matrix: Ground Water

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		0.055	0.022	ug/L		10/04/21 17:05	10/08/21 14:21	1
Naphthalene	ND		0.077	0.033	ug/L		10/04/21 17:05	10/08/21 14:21	1
Phenanthrene	ND		0.077	0.033	ug/L		10/04/21 17:05	10/08/21 14:21	1
Pyrene	ND		0.055	0.011	ug/L		10/04/21 17:05	10/08/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*46*		*10 - 110*	*10/04/21 17:05*	*10/08/21 14:21*	*1*
1-Methylnaphthalene-d10 (Surr)	*71*		*36 - 111*	*10/04/21 17:05*	*10/08/21 14:21*	*1*
Fluoranthene-d10 (Surr)	*93*		*47 - 128*	*10/04/21 17:05*	*10/08/21 14:21*	*1*

Client Sample ID: MW-12S-20210929

Date Collected: 09/29/21 12:47
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-10

Matrix: Ground 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			10/11/21 15:40	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 15:40	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 15:40	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 15:40	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/11/21 15:40*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/11/21 15:40*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 15:40*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 15:40*	*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		10/04/21 17:05	10/08/21 14:51	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Chrysene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/08/21 14:51	1
Fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Fluorene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/08/21 14:51	1
Naphthalene	ND		0.072	0.031	ug/L		10/04/21 17:05	10/08/21 14:51	1
Phenanthrene	ND		0.072	0.031	ug/L		10/04/21 17:05	10/08/21 14:51	1
Pyrene	**0.016**	**J**	0.051	0.010	ug/L		10/04/21 17:05	10/08/21 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*53*		*10 - 110*	*10/04/21 17:05*	*10/08/21 14:51*	*1*
1-Methylnaphthalene-d10 (Surr)	*62*		*36 - 111*	*10/04/21 17:05*	*10/08/21 14:51*	*1*
Fluoranthene-d10 (Surr)	*80*		*47 - 128*	*10/04/21 17:05*	*10/08/21 14:51*	*1*

Client Sample ID: MW-12D-20210929

Lab Sample ID: 410-57303-11

Date Collected: 09/29/21 13:26

Matrix: Ground Water

Date Received: 09/30/21 19:30

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			10/11/21 16:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 16:03	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 16:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 16:03	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*10/11/21 16:03*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/11/21 16:03*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/11/21 16:03*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 16:03*	*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		10/04/21 17:05	10/08/21 15:21	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Chrysene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/08/21 15:21	1
Fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Fluorene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/08/21 15:21	1
Naphthalene	ND		0.071	0.030	ug/L		10/04/21 17:05	10/08/21 15:21	1
Phenanthrene	ND		0.071	0.030	ug/L		10/04/21 17:05	10/08/21 15:21	1
Pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/08/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*43*		*10 - 110*	*10/04/21 17:05*	*10/08/21 15:21*	*1*
1-Methylnaphthalene-d10 (Surr)	*67*		*36 - 111*	*10/04/21 17:05*	*10/08/21 15:21*	*1*
Fluoranthene-d10 (Surr)	*83*		*47 - 128*	*10/04/21 17:05*	*10/08/21 15:21*	*1*

Client Sample ID: FB-20210929

Lab Sample ID: 410-57303-12

Date Collected: 09/29/21 13:40

Matrix: Water

Date Received: 09/30/21 19:30

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			10/11/21 10:50	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 10:50	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 10:50	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 10:50	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/11/21 10:50*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 10:50*	*1*

Client Sample ID: FB-20210929

Date Collected: 09/29/21 13:40
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-12

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 10:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 10:50*	*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		10/04/21 17:05	10/08/21 15:50	1
Acenaphthylene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Anthracene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Chrysene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		10/04/21 17:05	10/08/21 15:50	1
Fluoranthene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Fluorene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		10/04/21 17:05	10/08/21 15:50	1
Naphthalene	ND		0.073	0.031	ug/L		10/04/21 17:05	10/08/21 15:50	1
Phenanthrene	ND		0.073	0.031	ug/L		10/04/21 17:05	10/08/21 15:50	1
Pyrene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*85*		*10 - 110*	*10/04/21 17:05*	*10/08/21 15:50*	*1*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*10/04/21 17:05*	*10/08/21 15:50*	*1*
Fluoranthene-d10 (Surr)	*98*		*47 - 128*	*10/04/21 17:05*	*10/08/21 15:50*	*1*

Client Sample ID: MW-11S-20210929

Date Collected: 09/29/21 14:20
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-13

Matrix: Ground 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			10/11/21 16:25	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 16:25	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 16:25	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 16:25	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*10/11/21 16:25*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 16:25*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 16:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 16:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.95**	J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Acenaphthylene	**0.024**	**J** J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Anthracene	**0.044**	**J** J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1

Client Sample ID: MW-11S-20210929

Date Collected: 09/29/21 14:20
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-13

Matrix: Ground Water

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

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.059**		J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Benzo[a]pyrene	**0.039**	**J**	J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Benzo[b]fluoranthene	**0.042**	**J**	J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Benzo[g,h,i]perylene	**0.019**	**J**	J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Benzo[k]fluoranthene	**0.016**	**J**	J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Chrysene	**0.074**		J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Dibenz(a,h)anthracene	ND		UJ-RC:3L	0.052	0.021	ug/L		10/04/21 17:05	10/08/21 16:20	1
Fluoranthene	**0.17**		J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Fluorene	**0.16**		J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1
Indeno[1,2,3-cd]pyrene	ND		UJ-RC:3L	0.052	0.021	ug/L		10/04/21 17:05	10/08/21 16:20	1
Naphthalene	**0.073**	**B**	UJ-RC:2,3L	0.260	0.073	ug/L		10/04/21 17:05	10/08/21 16:20	1
Phenanthrene	**0.11**		J-RC:3L	0.073	0.031	ug/L		10/04/21 17:05	10/08/21 16:20	1
Pyrene	**0.23**		J-RC:3L	0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*12*		*10 - 110*	*10/04/21 17:05*	*10/08/21 16:20*	*1*
1-Methylnaphthalene-d10 (Surr)	*13*	*S1-*	*36 - 111*	*10/04/21 17:05*	*10/08/21 16:20*	*1*
Fluoranthene-d10 (Surr)	*17*	*S1-*	*47 - 128*	*10/04/21 17:05*	*10/08/21 16:20*	*1*

Client Sample ID: MW-11D-20210929

Date Collected: 09/29/21 14:59
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-14

Matrix: Ground 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			10/11/21 16:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 16:47	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 16:47	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 16:47	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*10/11/21 16:47*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/11/21 16:47*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 16:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 16:47*	*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		10/04/21 17:05	10/08/21 16:50	1
Acenaphthylene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Anthracene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Chrysene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		10/04/21 17:05	10/08/21 16:50	1
Fluoranthene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1
Fluorene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1

Client Sample ID: MW-11D-20210929

Date Collected: 09/29/21 14:59
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-14

Matrix: Ground Water

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		10/04/21 17:05	10/08/21 16:50	1
Naphthalene	ND		0.073	0.031	ug/L		10/04/21 17:05	10/08/21 16:50	1
Phenanthrene	ND		0.073	0.031	ug/L		10/04/21 17:05	10/08/21 16:50	1
Pyrene	ND		0.052	0.010	ug/L		10/04/21 17:05	10/08/21 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*58*		*10 - 110*	*10/04/21 17:05*	*10/08/21 16:50*	*1*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*10/04/21 17:05*	*10/08/21 16:50*	*1*
Fluoranthene-d10 (Surr)	*97*		*47 - 128*	*10/04/21 17:05*	*10/08/21 16:50*	*1*

Client Sample ID: MW-4S-20210929

Date Collected: 09/29/21 15:59
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-15

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**		1.0	0.30	ug/L			10/11/21 17:10	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 17:10	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 17:10	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 17:10	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*10/11/21 17:10*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/11/21 17:10*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*10/11/21 17:10*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/11/21 17:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.25**		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Anthracene	**0.22**		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Benzo[a]anthracene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Benzo[a]pyrene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Benzo[b]fluoranthene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Chrysene	ND		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		10/04/21 17:05	10/08/21 17:19	1
Fluoranthene	**4.4**		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Fluorene	**6.5**		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		10/04/21 17:05	10/08/21 17:19	1
Naphthalene	**0.059**	**J B** UJ-RC:2	0.260	0.059	ug/L		10/04/21 17:05	10/08/21 17:19	1
Phenanthrene	**0.10**		0.075	0.032	ug/L		10/04/21 17:05	10/08/21 17:19	1
Pyrene	**4.9**		0.053	0.011	ug/L		10/04/21 17:05	10/08/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*	*10/04/21 17:05*	*10/08/21 17:19*	*1*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*10/04/21 17:05*	*10/08/21 17:19*	*1*
Fluoranthene-d10 (Surr)	*96*		*47 - 128*	*10/04/21 17:05*	*10/08/21 17:19*	*1*

Client Sample ID: MW-4S-20210929

Date Collected: 09/29/21 15:59
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-15

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**16**		0.27	0.053	ug/L		10/04/21 17:05	10/08/21 17:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 110*	*10/04/21 17:05*	*10/08/21 17:49*	*5*
1-Methylnaphthalene-d10 (Surr)	*83*		*36 - 111*	*10/04/21 17:05*	*10/08/21 17:49*	*5*
Fluoranthene-d10 (Surr)	*100*		*47 - 128*	*10/04/21 17:05*	*10/08/21 17:49*	*5*

Client Sample ID: MW-4D-20210929

Date Collected: 09/29/21 16:38
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-16

Matrix: Ground 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			10/11/21 17:32	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 17:32	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 17:32	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 17:32	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*10/11/21 17:32*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*10/11/21 17:32*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 17:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 17:32*	*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		10/04/21 17:05	10/10/21 00:20	1
Acenaphthylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Chrysene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/10/21 00:20	1
Fluoranthene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Fluorene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		10/04/21 17:05	10/10/21 00:20	1
Naphthalene	ND		0.072	0.031	ug/L		10/04/21 17:05	10/10/21 00:20	1
Phenanthrene	ND		0.072	0.031	ug/L		10/04/21 17:05	10/10/21 00:20	1
Pyrene	ND		0.051	0.010	ug/L		10/04/21 17:05	10/10/21 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*45*		*10 - 110*	*10/04/21 17:05*	*10/10/21 00:20*	*1*
1-Methylnaphthalene-d10 (Surr)	*70*		*36 - 111*	*10/04/21 17:05*	*10/10/21 00:20*	*1*
Fluoranthene-d10 (Surr)	*84*		*47 - 128*	*10/04/21 17:05*	*10/10/21 00:20*	*1*

Client Sample ID: MW-3-20210930

Date Collected: 09/30/21 08:22
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-17

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.91**	**J**	1.0	0.30	ug/L			10/11/21 17:54	1
Ethylbenzene	**2.9**		1.0	0.40	ug/L			10/11/21 17:54	1
Toluene	**0.76**	**J**	1.0	0.20	ug/L			10/11/21 17:54	1
Xylenes, Total	**4.1**		1.0	0.40	ug/L			10/11/21 17:54	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*10/11/21 17:54*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/11/21 17:54*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*10/11/21 17:54*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 17:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**6.4**		0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Anthracene	**2.2**		0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Benzo[a]anthracene	**1.5**		0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Benzo[a]pyrene	**0.013**	**J**	0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Benzo[b]fluoranthene	**0.025**	**J**	0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Chrysene	**0.88**		0.053	0.011	ug/L		10/07/21 09:17	10/11/21 20:06	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		10/07/21 09:17	10/11/21 20:06	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		10/07/21 09:17	10/11/21 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*85*		*10 - 110*	*10/07/21 09:17*	*10/11/21 20:06*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*10/07/21 09:17*	*10/11/21 20:06*	*1*
Fluoranthene-d10 (Surr)	*88*		*47 - 128*	*10/07/21 09:17*	*10/11/21 20:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**46**		0.26	0.053	ug/L		10/07/21 09:17	10/12/21 07:42	5
Fluoranthene	**17**		0.26	0.053	ug/L		10/07/21 09:17	10/12/21 07:42	5
Fluorene	**14**		0.26	0.053	ug/L		10/07/21 09:17	10/12/21 07:42	5
Phenanthrene	**20**		0.37	0.16	ug/L		10/07/21 09:17	10/12/21 07:42	5
Pyrene	**22**		0.26	0.053	ug/L		10/07/21 09:17	10/12/21 07:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*89*		*10 - 110*	*10/07/21 09:17*	*10/12/21 07:42*	*5*
1-Methylnaphthalene-d10 (Surr)	*84*		*36 - 111*	*10/07/21 09:17*	*10/12/21 07:42*	*5*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*	*10/07/21 09:17*	*10/12/21 07:42*	*5*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**110**		1.5	0.63	ug/L		10/07/21 09:17	10/12/21 08:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*87*		*10 - 110*	*10/07/21 09:17*	*10/12/21 08:12*	*20*
1-Methylnaphthalene-d10 (Surr)	*83*		*36 - 111*	*10/07/21 09:17*	*10/12/21 08:12*	*20*
Fluoranthene-d10 (Surr)	*90*		*47 - 128*	*10/07/21 09:17*	*10/12/21 08:12*	*20*

Client Sample ID: MW-13S-20210930

Lab Sample ID: 410-57303-18

Date Collected: 09/30/21 09:14
Matrix: Ground Water
Date Received: 09/30/21 19:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.5**		1.0	0.30	ug/L			10/11/21 18:17	1
Ethylbenzene	**1.2**		1.0	0.40	ug/L			10/11/21 18:17	1
Toluene	**0.56**	**J**	1.0	0.20	ug/L			10/11/21 18:17	1
Xylenes, Total	**0.67**	**J**	1.0	0.40	ug/L			10/11/21 18:17	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/11/21 18:17*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/11/21 18:17*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 18:17*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 18:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**1.2**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Anthracene	**6.0**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Benzo[a]anthracene	**1.2**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Benzo[a]pyrene	**0.057**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Benzo[b]fluoranthene	**0.073**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Benzo[k]fluoranthene	**0.030**	**J**	0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Chrysene	**0.82**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		10/07/21 09:17	10/11/21 20:36	1
Fluoranthene	**5.4**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Fluorene	**9.7**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		10/07/21 09:17	10/11/21 20:36	1
Pyrene	**7.1**		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 110*	*10/07/21 09:17*	*10/11/21 20:36*	*1*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*10/07/21 09:17*	*10/11/21 20:36*	*1*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*	*10/07/21 09:17*	*10/11/21 20:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 08:42	10
Naphthalene	**41**		0.72	0.31	ug/L		10/07/21 09:17	10/12/21 08:42	10
Phenanthrene	**36**		0.72	0.31	ug/L		10/07/21 09:17	10/12/21 08:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 110*	*10/07/21 09:17*	*10/12/21 08:42*	*10*
1-Methylnaphthalene-d10 (Surr)	*87*		*36 - 111*	*10/07/21 09:17*	*10/12/21 08:42*	*10*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*	*10/07/21 09:17*	*10/12/21 08:42*	*10*

Client Sample ID: MW-13D-20210930

Lab Sample ID: 410-57303-19

Date Collected: 09/30/21 09:55
Matrix: Ground Water
Date Received: 09/30/21 19:30

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			10/11/21 18:39	1

Client Sample ID: MW-13D-20210930

Lab Sample ID: 410-57303-19

Date Collected: 09/30/21 09:55
Matrix: Ground Water
Date Received: 09/30/21 19:30

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			10/11/21 18:39	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 18:39	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 18:39	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*10/11/21 18:39*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*10/11/21 18:39*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*10/11/21 18:39*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 18:39*	*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		10/07/21 09:17	10/11/21 21:07	1
Acenaphthylene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Anthracene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Chrysene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		10/07/21 09:17	10/11/21 21:07	1
Fluoranthene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Fluorene	ND		0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		10/07/21 09:17	10/11/21 21:07	1
Naphthalene	**0.032**	**J**	0.073	0.031	ug/L		10/07/21 09:17	10/11/21 21:07	1
Phenanthrene	ND		0.073	0.031	ug/L		10/07/21 09:17	10/11/21 21:07	1
Pyrene	**0.014**	**J**	0.052	0.010	ug/L		10/07/21 09:17	10/11/21 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*85*		*10 - 110*	*10/07/21 09:17*	*10/11/21 21:07*	*1*
1-Methylnaphthalene-d10 (Surr)	*86*		*36 - 111*	*10/07/21 09:17*	*10/11/21 21:07*	*1*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*	*10/07/21 09:17*	*10/11/21 21:07*	*1*

Client Sample ID: DUP-20210930

Lab Sample ID: 410-57303-20

Date Collected: 09/30/21 00:00
Matrix: Ground Water
Date Received: 09/30/21 19:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.98**	**J**	1.0	0.30	ug/L			10/11/21 19:01	1
Ethylbenzene	**2.9**		1.0	0.40	ug/L			10/11/21 19:01	1
Toluene	**0.77**	**J**	1.0	0.20	ug/L			10/11/21 19:01	1
Xylenes, Total	**4.4**		1.0	0.40	ug/L			10/11/21 19:01	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/11/21 19:01*	*1*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/11/21 19:01*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 19:01*	*1*

Client Sample ID: DUP-20210930

Date Collected: 09/30/21 00:00
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-20
Matrix: Ground Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 19:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**49**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Acenaphthylene	**6.3**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Anthracene	**2.4**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Benzo[a]anthracene	**1.6**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Benzo[a]pyrene	ND		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Benzo[b]fluoranthene	ND		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Benzo[g,h,i]perylene	ND		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Benzo[k]fluoranthene	ND		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Chrysene	**0.94**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Dibenz(a,h)anthracene	ND		0.52	0.21	ug/L		10/07/21 09:17	10/12/21 09:13	10
Fluoranthene	**18**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Fluorene	**15**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10
Indeno[1,2,3-cd]pyrene	ND		0.52	0.21	ug/L		10/07/21 09:17	10/12/21 09:13	10
Phenanthrene	**19**		0.73	0.31	ug/L		10/07/21 09:17	10/12/21 09:13	10
Pyrene	**24**		0.52	0.10	ug/L		10/07/21 09:17	10/12/21 09:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*87*		*10 - 110*	*10/07/21 09:17*	*10/12/21 09:13*	*10*
1-Methylnaphthalene-d10 (Surr)	*83*		*36 - 111*	*10/07/21 09:17*	*10/12/21 09:13*	*10*
Fluoranthene-d10 (Surr)	*89*		*47 - 128*	*10/07/21 09:17*	*10/12/21 09:13*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**130**		3.7	1.6	ug/L		10/07/21 09:17	10/13/21 10:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*80*		*10 - 110*	*10/07/21 09:17*	*10/13/21 10:47*	*50*
1-Methylnaphthalene-d10 (Surr)	*97*		*36 - 111*	*10/07/21 09:17*	*10/13/21 10:47*	*50*
Fluoranthene-d10 (Surr)	*104*		*47 - 128*	*10/07/21 09:17*	*10/13/21 10:47*	*50*

Client Sample ID: TripBlank-20210930

Date Collected: 09/30/21 00:00
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-21
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			10/11/21 11:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 11:13	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 11:13	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 11:13	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/11/21 11:13*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 11:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/11/21 11:13*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 11:13*	*1*

Surrogate Summary

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

Job ID: 410-57303-1

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

Matrix: Ground 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)
410-57303-1	MW-1-20210928	107	87	102	97
410-57303-2	MW-10S-20210928	105	86	99	96
410-57303-3	MW-10D-20210928	108	84	101	95
410-57303-3 MS	MW-10D-20210928	105	94	98	100
410-57303-3 MSD	MW-10D-20210928	102	93	96	100
410-57303-4	MW-8S-20210928	103	85	100	95
410-57303-5	MW-8D-20210928	106	86	99	97
410-57303-6	MW-7S-20210929	107	85	100	96
410-57303-7	MW-7D-20210929	106	86	102	96
410-57303-8	MW-14S-20210929	106	83	100	96
410-57303-9	MW-14D-20210929	103	85	102	96
410-57303-10	MW-12S-20210929	105	83	102	96
410-57303-11	MW-12D-20210929	108	83	98	96
410-57303-13	MW-11S-20210929	110	85	102	96
410-57303-14	MW-11D-20210929	112	83	102	96
410-57303-15	MW-4S-20210929	110	83	101	95
410-57303-16	MW-4D-20210929	107	84	100	96
410-57303-17	MW-3-20210930	111	89	102	96
410-57303-18	MW-13S-20210930	102	86	100	96
410-57303-19	MW-13D-20210930	107	83	103	96
410-57303-20	DUP-20210930	106	86	100	96

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)
410-57303-12	FB-20210929	105	85	100	96
410-57303-21	TripBlank-20210930	103	85	100	96
LCS 410-181168/4	Lab Control Sample	101	93	97	99
MB 410-181168/6	Method Blank	106	85	99	96

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: 410-57303-1

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

Matrix: Ground 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)
410-57303-1	MW-1-20210928	74	81	108
410-57303-2	MW-10S-20210928	85	85	106
410-57303-3	MW-10D-20210928	67	70	92
410-57303-3 MS	MW-10D-20210928	78	93	104
410-57303-3 MSD	MW-10D-20210928	78	84	98
410-57303-4	MW-8S-20210928	85	83	107
410-57303-5	MW-8D-20210928	75	78	99
410-57303-6	MW-7S-20210929	76	77	104
410-57303-7	MW-7D-20210929	80	75	97
410-57303-8	MW-14S-20210929	83	78	104
410-57303-9	MW-14D-20210929	46	71	93
410-57303-10	MW-12S-20210929	53	62	80
410-57303-11	MW-12D-20210929	43	67	83
410-57303-13	MW-11S-20210929	12	13 S1-	17 S1-
410-57303-14	MW-11D-20210929	58	79	97
410-57303-15	MW-4S-20210929	78	79	96
410-57303-15 - DL	MW-4S-20210929	73	83	100
410-57303-16	MW-4D-20210929	45	70	84
410-57303-17	MW-3-20210930	85	75	88
410-57303-17 - DL	MW-3-20210930	89	84	91
410-57303-17 - DL2	MW-3-20210930	87	83	90
410-57303-18	MW-13S-20210930	81	81	87
410-57303-18 - DL	MW-13S-20210930	82	87	91
410-57303-19	MW-13D-20210930	85	86	87
410-57303-20	DUP-20210930	87	83	89
410-57303-20 - DL	DUP-20210930	80	97	104

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)
410-57303-12	FB-20210929	85	81	98
LCS 410-178578/2-A	Lab Control Sample	93	86	101
LCS 410-179899/2-A	Lab Control Sample	90	76	87
LCSD 410-179899/3-A	Lab Control Sample Dup	86	72	79
MB 410-178578/1-A	Method Blank	84	75	97
MB 410-179899/1-A	Method Blank	91	85	91

Surrogate Legend

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 410-181168/6
Matrix: Water
Analysis Batch: 181168

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			10/11/21 10:28	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/21 10:28	1
Toluene	ND		1.0	0.20	ug/L			10/11/21 10:28	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/21 10:28	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/11/21 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/11/21 10:28*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/11/21 10:28*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/11/21 10:28*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/21 10:28*	*1*

Lab Sample ID: LCS 410-181168/4
Matrix: Water
Analysis Batch: 181168

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		106	80 - 120		
Ethylbenzene			20.0	20.5		ug/L		102	80 - 120		
Toluene			20.0	20.6		ug/L		103	80 - 120		
Xylenes, Total			60.0	62.3		ug/L		104	80 - 120		
Methyl tertiary butyl ether			20.0	17.6		ug/L		88	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 410-57303-3 MS
Matrix: Ground Water
Analysis Batch: 181168

Client Sample ID: MW-10D-20210928
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		112	80 - 120		
Ethylbenzene	ND		20.0	21.6		ug/L		108	80 - 120		
Toluene	ND		20.0	21.8		ug/L		109	80 - 120		
Xylenes, Total	ND		60.0	64.5		ug/L		108	80 - 120		
Methyl tertiary butyl ether	ND		20.0	17.4		ug/L		87	69 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: 410-57303-3 MSD
Matrix: Ground Water
Analysis Batch: 181168

Client Sample ID: MW-10D-20210928
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	23.0		ug/L		115	80 - 120	3	30
Ethylbenzene	ND		20.0	21.8		ug/L		109	80 - 120	1	30
Toluene	ND		20.0	22.2		ug/L		111	80 - 120	2	30
Xylenes, Total	ND		60.0	66.5		ug/L		111	80 - 120	3	30
Methyl tertiary butyl ether	ND		20.0	17.5		ug/L		88	69 - 122	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 410-178578/1-A
Matrix: Water
Analysis Batch: 179971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Acenaphthylene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Anthracene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Chrysene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		10/04/21 17:05	10/07/21 09:43	1
Fluoranthene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Fluorene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		10/04/21 17:05	10/07/21 09:43	1
Naphthalene	0.0519	J	0.070	0.030	ug/L		10/04/21 17:05	10/07/21 09:43	1
Phenanthrene	ND		0.070	0.030	ug/L		10/04/21 17:05	10/07/21 09:43	1
Pyrene	ND		0.050	0.010	ug/L		10/04/21 17:05	10/07/21 09:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*84*		*10 - 110*	*10/04/21 17:05*	*10/07/21 09:43*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*10/04/21 17:05*	*10/07/21 09:43*	*1*
Fluoranthene-d10 (Surr)	*97*		*47 - 128*	*10/04/21 17:05*	*10/07/21 09:43*	*1*

Lab Sample ID: LCS 410-178578/2-A
Matrix: Water
Analysis Batch: 179971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178578

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.744		ug/L		74	42 - 120		
Acenaphthylene			1.00	0.777		ug/L		78	49 - 120		

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

Lab Sample ID: LCS 410-178578/2-A
Matrix: Water
Analysis Batch: 179971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.00	0.871		ug/L		87	54 - 121
Benzo[a]anthracene	1.00	0.828		ug/L		83	61 - 122
Benzo[a]pyrene	1.00	0.914		ug/L		91	60 - 120
Benzo[b]fluoranthene	1.00	0.802		ug/L		80	58 - 122
Benzo[g,h,i]perylene	1.00	0.827		ug/L		83	50 - 120
Benzo[k]fluoranthene	1.00	0.870		ug/L		87	57 - 128
Chrysene	1.00	0.822		ug/L		82	55 - 123
Dibenz(a,h)anthracene	1.00	0.876		ug/L		88	50 - 121
Fluoranthene	1.00	0.888		ug/L		89	61 - 123
Fluorene	1.00	0.775		ug/L		77	55 - 120
Indeno[1,2,3-cd]pyrene	1.00	1.21		ug/L		121	47 - 143
Naphthalene	1.00	0.747		ug/L		75	20 - 120
Phenanthrene	1.00	0.793		ug/L		79	59 - 120
Pyrene	1.00	0.741		ug/L		74	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*93*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*86*		*36 - 111*
Fluoranthene-d10 (Surr)	*101*		*47 - 128*

Lab Sample ID: 410-57303-3 MS
Matrix: Ground Water
Analysis Batch: 179971

Client Sample ID: MW-10D-20210928
Prep Type: Total/NA
Prep Batch: 178578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		1.04	0.796		ug/L		77	42 - 120
Acenaphthylene	ND		1.04	0.833		ug/L		80	49 - 120
Anthracene	ND		1.04	0.935		ug/L		90	54 - 121
Benzo[a]anthracene	ND		1.04	0.838		ug/L		81	61 - 122
Benzo[a]pyrene	ND		1.04	0.804		ug/L		78	60 - 120
Benzo[b]fluoranthene	ND		1.04	0.716		ug/L		69	58 - 122
Benzo[g,h,i]perylene	ND		1.04	0.616		ug/L		59	50 - 120
Benzo[k]fluoranthene	ND		1.04	0.893		ug/L		86	57 - 128
Chrysene	ND		1.04	0.857		ug/L		83	55 - 123
Dibenz(a,h)anthracene	ND		1.04	0.789		ug/L		76	50 - 121
Fluoranthene	ND		1.04	0.951		ug/L		92	61 - 123
Fluorene	ND		1.04	0.826		ug/L		80	55 - 120
Indeno[1,2,3-cd]pyrene	ND		1.04	1.02		ug/L		99	47 - 143
Naphthalene	0.052	J B	1.04	0.844		ug/L		77	20 - 120
Phenanthrene	ND		1.04	0.822		ug/L		79	59 - 120
Pyrene	ND		1.04	0.787		ug/L		76	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*93*		*36 - 111*
Fluoranthene-d10 (Surr)	*104*		*47 - 128*

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

Lab Sample ID: 410-57303-3 MSD
Matrix: Ground Water
Analysis Batch: 179971

Client Sample ID: MW-10D-20210928
Prep Type: Total/NA
Prep Batch: 178578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.05	0.738		ug/L		70	42 - 120	8	30
Acenaphthylene	ND		1.05	0.770		ug/L		73	49 - 120	8	30
Anthracene	ND		1.05	0.870		ug/L		83	54 - 121	7	30
Benzo[a]anthracene	ND		1.05	0.841		ug/L		80	61 - 122	0	30
Benzo[a]pyrene	ND		1.05	0.808		ug/L		77	60 - 120	0	30
Benzo[b]fluoranthene	ND		1.05	0.709		ug/L		67	58 - 122	1	30
Benzo[g,h,i]perylene	ND		1.05	0.593		ug/L		56	50 - 120	4	30
Benzo[k]fluoranthene	ND		1.05	0.896		ug/L		85	57 - 128	0	30
Chrysene	ND		1.05	0.827		ug/L		79	55 - 123	4	30
Dibenz(a,h)anthracene	ND		1.05	0.760		ug/L		72	50 - 121	4	30
Fluoranthene	ND		1.05	0.899		ug/L		85	61 - 123	6	30
Fluorene	ND		1.05	0.768		ug/L		73	55 - 120	7	30
Indeno[1,2,3-cd]pyrene	ND		1.05	0.981		ug/L		93	47 - 143	4	30
Naphthalene	0.052	J B	1.05	0.761		ug/L		67	20 - 120	10	30
Phenanthrene	ND		1.05	0.762		ug/L		72	59 - 120	8	30
Pyrene	ND		1.05	0.751		ug/L		71	46 - 122	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*84*		*36 - 111*
Fluoranthene-d10 (Surr)	*98*		*47 - 128*

Lab Sample ID: MB 410-179899/1-A
Matrix: Water
Analysis Batch: 181246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Acenaphthylene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Anthracene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Chrysene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		10/07/21 09:17	10/11/21 09:59	1
Fluoranthene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Fluorene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		10/07/21 09:17	10/11/21 09:59	1
Naphthalene	ND		0.070	0.030	ug/L		10/07/21 09:17	10/11/21 09:59	1
Phenanthrene	ND		0.070	0.030	ug/L		10/07/21 09:17	10/11/21 09:59	1
Pyrene	ND		0.050	0.010	ug/L		10/07/21 09:17	10/11/21 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*91*		*10 - 110*	*10/07/21 09:17*	*10/11/21 09:59*	*1*
1-Methylnaphthalene-d10 (Surr)	*85*		*36 - 111*	*10/07/21 09:17*	*10/11/21 09:59*	*1*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*	*10/07/21 09:17*	*10/11/21 09:59*	*1*

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

Lab Sample ID: LCS 410-179899/2-A
Matrix: Water
Analysis Batch: 181246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.767		ug/L		77	42 - 120		
Acenaphthylene			1.00	0.825		ug/L		82	49 - 120		
Anthracene			1.00	0.864		ug/L		86	54 - 121		
Benzo[a]anthracene			1.00	0.864		ug/L		86	61 - 122		
Benzo[a]pyrene			1.00	0.933		ug/L		93	60 - 120		
Benzo[b]fluoranthene			1.00	0.848		ug/L		85	58 - 122		
Benzo[g,h,i]perylene			1.00	1.05		ug/L		105	50 - 120		
Benzo[k]fluoranthene			1.00	0.921		ug/L		92	57 - 128		
Chrysene			1.00	0.885		ug/L		89	55 - 123		
Dibenz(a,h)anthracene			1.00	1.14		ug/L		114	50 - 121		
Fluoranthene			1.00	0.826		ug/L		83	61 - 123		
Fluorene			1.00	0.770		ug/L		77	55 - 120		
Indeno[1,2,3-cd]pyrene			1.00	1.09		ug/L		109	47 - 143		
Naphthalene			1.00	0.710		ug/L		71	20 - 120		
Phenanthrene			1.00	0.818		ug/L		82	59 - 120		
Pyrene			1.00	0.898		ug/L		90	46 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*90*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*76*		*36 - 111*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*

Lab Sample ID: LCSD 410-179899/3-A
Matrix: Water
Analysis Batch: 181246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 179899

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.00	0.763		ug/L		76	42 - 120	1	30
Acenaphthylene			1.00	0.812		ug/L		81	49 - 120	2	30
Anthracene			1.00	0.816		ug/L		82	54 - 121	6	30
Benzo[a]anthracene			1.00	0.871		ug/L		87	61 - 122	1	30
Benzo[a]pyrene			1.00	0.901		ug/L		90	60 - 120	4	30
Benzo[b]fluoranthene			1.00	0.851		ug/L		85	58 - 122	0	30
Benzo[g,h,i]perylene			1.00	0.994		ug/L		99	50 - 120	6	30
Benzo[k]fluoranthene			1.00	0.859		ug/L		86	57 - 128	7	30
Chrysene			1.00	0.855		ug/L		86	55 - 123	3	30
Dibenz(a,h)anthracene			1.00	1.03		ug/L		103	50 - 121	10	30
Fluoranthene			1.00	0.754		ug/L		75	61 - 123	9	30
Fluorene			1.00	0.761		ug/L		76	55 - 120	1	30
Indeno[1,2,3-cd]pyrene			1.00	1.03		ug/L		103	47 - 143	5	30
Naphthalene			1.00	0.694		ug/L		69	20 - 120	2	30
Phenanthrene			1.00	0.796		ug/L		80	59 - 120	3	30
Pyrene			1.00	0.839		ug/L		84	46 - 122	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*72*		*36 - 111*
Fluoranthene-d10 (Surr)	*79*		*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
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: 181168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-1	MW-1-20210928	Total/NA	Ground Water	8260C	
410-57303-2	MW-10S-20210928	Total/NA	Ground Water	8260C	
410-57303-3	MW-10D-20210928	Total/NA	Ground Water	8260C	
410-57303-4	MW-8S-20210928	Total/NA	Ground Water	8260C	
410-57303-5	MW-8D-20210928	Total/NA	Ground Water	8260C	
410-57303-6	MW-7S-20210929	Total/NA	Ground Water	8260C	
410-57303-7	MW-7D-20210929	Total/NA	Ground Water	8260C	
410-57303-8	MW-14S-20210929	Total/NA	Ground Water	8260C	
410-57303-9	MW-14D-20210929	Total/NA	Ground Water	8260C	
410-57303-10	MW-12S-20210929	Total/NA	Ground Water	8260C	
410-57303-11	MW-12D-20210929	Total/NA	Ground Water	8260C	
410-57303-12	FB-20210929	Total/NA	Water	8260C	
410-57303-13	MW-11S-20210929	Total/NA	Ground Water	8260C	
410-57303-14	MW-11D-20210929	Total/NA	Ground Water	8260C	
410-57303-15	MW-4S-20210929	Total/NA	Ground Water	8260C	
410-57303-16	MW-4D-20210929	Total/NA	Ground Water	8260C	
410-57303-17	MW-3-20210930	Total/NA	Ground Water	8260C	
410-57303-18	MW-13S-20210930	Total/NA	Ground Water	8260C	
410-57303-19	MW-13D-20210930	Total/NA	Ground Water	8260C	
410-57303-20	DUP-20210930	Total/NA	Ground Water	8260C	
410-57303-21	TripBlank-20210930	Total/NA	Water	8260C	
MB 410-181168/6	Method Blank	Total/NA	Water	8260C	
LCS 410-181168/4	Lab Control Sample	Total/NA	Water	8260C	
410-57303-3 MS	MW-10D-20210928	Total/NA	Ground Water	8260C	
410-57303-3 MSD	MW-10D-20210928	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 178578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-1	MW-1-20210928	Total/NA	Ground Water	3510C	
410-57303-2	MW-10S-20210928	Total/NA	Ground Water	3510C	
410-57303-3	MW-10D-20210928	Total/NA	Ground Water	3510C	
410-57303-4	MW-8S-20210928	Total/NA	Ground Water	3510C	
410-57303-5	MW-8D-20210928	Total/NA	Ground Water	3510C	
410-57303-6	MW-7S-20210929	Total/NA	Ground Water	3510C	
410-57303-7	MW-7D-20210929	Total/NA	Ground Water	3510C	
410-57303-8	MW-14S-20210929	Total/NA	Ground Water	3510C	
410-57303-9	MW-14D-20210929	Total/NA	Ground Water	3510C	
410-57303-10	MW-12S-20210929	Total/NA	Ground Water	3510C	
410-57303-11	MW-12D-20210929	Total/NA	Ground Water	3510C	
410-57303-12	FB-20210929	Total/NA	Water	3510C	
410-57303-13	MW-11S-20210929	Total/NA	Ground Water	3510C	
410-57303-14	MW-11D-20210929	Total/NA	Ground Water	3510C	
410-57303-15	MW-4S-20210929	Total/NA	Ground Water	3510C	
410-57303-15 - DL	MW-4S-20210929	Total/NA	Ground Water	3510C	
410-57303-16	MW-4D-20210929	Total/NA	Ground Water	3510C	
MB 410-178578/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-178578/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-57303-3 MS	MW-10D-20210928	Total/NA	Ground Water	3510C	
410-57303-3 MSD	MW-10D-20210928	Total/NA	Ground Water	3510C	

GC/MS Semi VOA

Prep Batch: 179899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-17 - DL2	MW-3-20210930	Total/NA	Ground Water	3510C	
410-57303-17 - DL	MW-3-20210930	Total/NA	Ground Water	3510C	
410-57303-17	MW-3-20210930	Total/NA	Ground Water	3510C	
410-57303-18 - DL	MW-13S-20210930	Total/NA	Ground Water	3510C	
410-57303-18	MW-13S-20210930	Total/NA	Ground Water	3510C	
410-57303-19	MW-13D-20210930	Total/NA	Ground Water	3510C	
410-57303-20	DUP-20210930	Total/NA	Ground Water	3510C	
410-57303-20 - DL	DUP-20210930	Total/NA	Ground Water	3510C	
MB 410-179899/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-179899/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-179899/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 179971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-1	MW-1-20210928	Total/NA	Ground Water	8270D SIM	178578
410-57303-2	MW-10S-20210928	Total/NA	Ground Water	8270D SIM	178578
410-57303-3	MW-10D-20210928	Total/NA	Ground Water	8270D SIM	178578
410-57303-4	MW-8S-20210928	Total/NA	Ground Water	8270D SIM	178578
410-57303-5	MW-8D-20210928	Total/NA	Ground Water	8270D SIM	178578
410-57303-6	MW-7S-20210929	Total/NA	Ground Water	8270D SIM	178578
MB 410-178578/1-A	Method Blank	Total/NA	Water	8270D SIM	178578
LCS 410-178578/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	178578
410-57303-3 MS	MW-10D-20210928	Total/NA	Ground Water	8270D SIM	178578
410-57303-3 MSD	MW-10D-20210928	Total/NA	Ground Water	8270D SIM	178578

Analysis Batch: 180407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-7	MW-7D-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-8	MW-14S-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-9	MW-14D-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-10	MW-12S-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-11	MW-12D-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-12	FB-20210929	Total/NA	Water	8270D SIM	178578
410-57303-13	MW-11S-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-14	MW-11D-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-15	MW-4S-20210929	Total/NA	Ground Water	8270D SIM	178578
410-57303-15 - DL	MW-4S-20210929	Total/NA	Ground Water	8270D SIM	178578

Analysis Batch: 180937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-16	MW-4D-20210929	Total/NA	Ground Water	8270D SIM	178578

Analysis Batch: 181246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-17	MW-3-20210930	Total/NA	Ground Water	8270D SIM	179899
410-57303-18	MW-13S-20210930	Total/NA	Ground Water	8270D SIM	179899
410-57303-19	MW-13D-20210930	Total/NA	Ground Water	8270D SIM	179899
MB 410-179899/1-A	Method Blank	Total/NA	Water	8270D SIM	179899
LCS 410-179899/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	179899
LCSD 410-179899/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	179899

GC/MS Semi VOA

Prep Batch: 181417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-1 - RE	MW-1-20210928	Total/NA	Ground Water	3510C	
410-57303-2 - RE	MW-10S-20210928	Total/NA	Ground Water	3510C	
410-57303-3 - RE	MW-10D-20210928	Total/NA	Ground Water	3510C	
410-57303-8 - RE	MW-14S-20210929	Total/NA	Ground Water	3510C	
410-57303-13 - RE	MW-11S-20210929	Total/NA	Ground Water	3510C	
410-57303-15 - RE	MW-4S-20210929	Total/NA	Ground Water	3510C	
MB 410-181417/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-181417/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-57303-3 MS - RE	MW-10D-20210928	Total/NA	Ground Water	3510C	
410-57303-3 MSD - RE	MW-10D-20210928	Total/NA	Ground Water	3510C	

Analysis Batch: 181545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-17 - DL	MW-3-20210930	Total/NA	Ground Water	8270D SIM	179899
410-57303-17 - DL2	MW-3-20210930	Total/NA	Ground Water	8270D SIM	179899
410-57303-18 - DL	MW-13S-20210930	Total/NA	Ground Water	8270D SIM	179899
410-57303-20	DUP-20210930	Total/NA	Ground Water	8270D SIM	179899

Analysis Batch: 181586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-1 - RE	MW-1-20210928	Total/NA	Ground Water	8270D SIM	181417
410-57303-2 - RE	MW-10S-20210928	Total/NA	Ground Water	8270D SIM	181417
410-57303-3 - RE	MW-10D-20210928	Total/NA	Ground Water	8270D SIM	181417
410-57303-8 - RE	MW-14S-20210929	Total/NA	Ground Water	8270D SIM	181417
410-57303-13 - RE	MW-11S-20210929	Total/NA	Ground Water	8270D SIM	181417
410-57303-15 - RE	MW-4S-20210929	Total/NA	Ground Water	8270D SIM	181417
MB 410-181417/1-A	Method Blank	Total/NA	Water	8270D SIM	181417
LCS 410-181417/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	181417
410-57303-3 MS - RE	MW-10D-20210928	Total/NA	Ground Water	8270D SIM	181417
410-57303-3 MSD - RE	MW-10D-20210928	Total/NA	Ground Water	8270D SIM	181417

Analysis Batch: 182120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-57303-20 - DL	DUP-20210930	Total/NA	Ground Water	8270D SIM	179899

Client Sample ID: MW-1-20210928
Lab Sample ID: 410-57303-1
Date Collected: 09/28/21 11:16
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 12:42	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	179971	10/07/21 18:07	UWHS	ELLE
Total/NA	Prep	3510C	RE		181417	10/11/21 18:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	181586	10/12/21 12:00	SJ89	ELLE

Client Sample ID: MW-10S-20210928
Lab Sample ID: 410-57303-2
Date Collected: 09/28/21 13:37
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 13:05	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	179971	10/07/21 18:37	UWHS	ELLE
Total/NA	Prep	3510C	RE		181417	10/11/21 18:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	181586	10/12/21 12:30	SJ89	ELLE

Client Sample ID: MW-10D-20210928
Lab Sample ID: 410-57303-3
Date Collected: 09/28/21 14:43
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 11:35	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	179971	10/07/21 15:09	UWHS	ELLE
Total/NA	Prep	3510C	RE		181417	10/11/21 18:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	181586	10/12/21 10:31	SJ89	ELLE

Client Sample ID: MW-8S-20210928
Lab Sample ID: 410-57303-4
Date Collected: 09/28/21 15:24
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 13:27	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	179971	10/07/21 19:06	UWHS	ELLE

Client Sample ID: MW-8D-20210928
Lab Sample ID: 410-57303-5
Date Collected: 09/28/21 16:03
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 13:49	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	179971	10/07/21 19:36	UWHS	ELLE

Client Sample ID: MW-7S-20210929
Lab Sample ID: 410-57303-6
Date Collected: 09/29/21 08:48
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 14:12	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	179971	10/07/21 20:06	UWHS	ELLE

Client Sample ID: MW-7D-20210929
Lab Sample ID: 410-57303-7
Date Collected: 09/29/21 09:26
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 14:33	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 13:22	UWHS	ELLE

Client Sample ID: MW-14S-20210929
Lab Sample ID: 410-57303-8
Date Collected: 09/29/21 10:12
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 14:55	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 13:51	UWHS	ELLE
Total/NA	Prep	3510C	RE		181417	10/11/21 18:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	181586	10/12/21 13:00	SJ89	ELLE

Client Sample ID: MW-14D-20210929
Lab Sample ID: 410-57303-9
Date Collected: 09/29/21 11:09
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 15:18	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 14:21	UWHS	ELLE

Client Sample ID: MW-12S-20210929
Lab Sample ID: 410-57303-10
Date Collected: 09/29/21 12:47
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 15:40	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 14:51	UWHS	ELLE

Client Sample ID: MW-12D-20210929
Lab Sample ID: 410-57303-11

Date Collected: 09/29/21 13:26
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 16:03	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 15:21	UWHS	ELLE

Client Sample ID: FB-20210929
Lab Sample ID: 410-57303-12

Date Collected: 09/29/21 13:40
Matrix: Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 10:50	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 15:50	UWHS	ELLE

Client Sample ID: MW-11S-20210929
Lab Sample ID: 410-57303-13

Date Collected: 09/29/21 14:20
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 16:25	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 16:20	UWHS	ELLE
Total/NA	Prep	3510C	RE		181417	10/11/21 18:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	181586	10/12/21 13:30	SJ89	ELLE

Client Sample ID: MW-11D-20210929
Lab Sample ID: 410-57303-14

Date Collected: 09/29/21 14:59
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 16:47	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 16:50	UWHS	ELLE

Client Sample ID: MW-4S-20210929
Lab Sample ID: 410-57303-15

Date Collected: 09/29/21 15:59
Matrix: Ground Water
Date Received: 09/30/21 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 17:10	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180407	10/08/21 17:19	UWHS	ELLE
Total/NA	Prep	3510C	DL		178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	DL	5	180407	10/08/21 17:49	UWHS	ELLE
Total/NA	Prep	3510C	RE		181417	10/11/21 18:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM	RE	1	181586	10/12/21 13:59	SJ89	ELLE

Client Sample ID: MW-4D-20210929
Date Collected: 09/29/21 16:38
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-16
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 17:32	ULCP	ELLE
Total/NA	Prep	3510C			178578	10/04/21 17:05	QQ3P	ELLE
Total/NA	Analysis	8270D SIM		1	180937	10/10/21 00:20	UWHS	ELLE

Client Sample ID: MW-3-20210930
Date Collected: 09/30/21 08:22
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-17
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 17:54	ULCP	ELLE
Total/NA	Prep	3510C			179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	181246	10/11/21 20:06	UWHS	ELLE
Total/NA	Prep	3510C	DL		179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL	5	181545	10/12/21 07:42	UJM0	ELLE
Total/NA	Prep	3510C	DL2		179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL2	20	181545	10/12/21 08:12	UJM0	ELLE

Client Sample ID: MW-13S-20210930
Date Collected: 09/30/21 09:14
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-18
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 18:17	ULCP	ELLE
Total/NA	Prep	3510C			179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	181246	10/11/21 20:36	UWHS	ELLE
Total/NA	Prep	3510C	DL		179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL	10	181545	10/12/21 08:42	UJM0	ELLE

Client Sample ID: MW-13D-20210930
Date Collected: 09/30/21 09:55
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-19
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 18:39	ULCP	ELLE
Total/NA	Prep	3510C			179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	181246	10/11/21 21:07	UWHS	ELLE

Client Sample ID: DUP-20210930
Date Collected: 09/30/21 00:00
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-20
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 19:01	ULCP	ELLE
Total/NA	Prep	3510C			179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM		10	181545	10/12/21 09:13	UJM0	ELLE

Lab Chronicle

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

Job ID: 410-57303-1

Client Sample ID: DUP-20210930
Date Collected: 09/30/21 00:00
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-20
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		179899	10/07/21 09:17	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL	50	182120	10/13/21 10:47	UJM0	ELLE

Client Sample ID: TripBlank-20210930
Date Collected: 09/30/21 00:00
Date Received: 09/30/21 19:30

Lab Sample ID: 410-57303-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	181168	10/11/21 11:13	ULCP	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: 410-57303-1

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	08-10-22
California	State	2792	02-02-22
Colorado	State	PA00009	07-31-22
Connecticut	State	PH-0746	06-30-23
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	10-17-21
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
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	07-31-22
North Carolina (WW/SW)	State	521	12-31-21
North Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-22
Oregon	NELAP	PA200001-018	09-11-22
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	08-31-22
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	12-31-21
Wyoming	State	8TMS-L	01-31-22
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.: 410-57303-1

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-1-20210928	410-57303-1	102	107	97	87
MW-10S-20210928	410-57303-2	99	105	96	86
MW-10D-20210928	410-57303-3	101	108	95	84
MW-8S-20210928	410-57303-4	100	103	95	85
MW-8D-20210928	410-57303-5	99	106	97	86
MW-7S-20210929	410-57303-6	100	107	96	85
MW-7D-20210929	410-57303-7	102	106	96	86
MW-14S-20210929	410-57303-8	100	106	96	83
MW-14D-20210929	410-57303-9	102	103	96	85
MW-12S-20210929	410-57303-10	102	105	96	83
MW-12D-20210929	410-57303-11	98	108	96	83
FB-20210929	410-57303-12	100	105	96	85
MW-11S-20210929	410-57303-13	102	110	96	85
MW-11D-20210929	410-57303-14	102	112	96	83
MW-4S-20210929	410-57303-15	101	110	95	83
MW-4D-20210929	410-57303-16	100	107	96	84
MW-3-20210930	410-57303-17	102	111	96	89
MW-13S-20210930	410-57303-18	100	102	96	86
MW-13D-20210930	410-57303-19	103	107	96	83
DUP-20210930	410-57303-20	100	106	96	86
TripBlank-20210930	410-57303-21	100	103	96	85
	MB 410-181168/6	99	106	96	85
	LCS 410-181168/4	97	101	99	93
MW-10D-20210928 MS	410-57303-3 MS	98	105	100	94
MW-10D-20210928 MSD	410-57303-3 MSD	96	102	100	93

	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WC11X03.D

Lab ID: LCS 410-181168/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	21.1	106	80-120	
Ethylbenzene	20.0	20.5	102	80-120	
Toluene	20.0	20.6	103	80-120	
Xylenes, Total	60.0	62.3	104	80-120	
Methyl tertiary butyl ether	20.0	17.6	88	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WC11X09.D

Lab ID: 410-57303-3 MS Client ID: MW-10D-20210928 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	112	80-120	
Ethylbenzene	20.0	ND	21.6	108	80-120	
Toluene	20.0	ND	21.8	109	80-120	
Xylenes, Total	60.0	ND	64.5	108	80-120	
Methyl tertiary butyl ether	20.0	ND	17.4	87	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WC11X10.D

Lab ID: 410-57303-3 MSD Client ID: MW-10D-20210928 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	23.0	115	3	30	80-120	
Ethylbenzene	20.0	21.8	109	1	30	80-120	
Toluene	20.0	22.2	111	2	30	80-120	
Xylenes, Total	60.0	66.5	111	3	30	80-120	
Methyl tertiary butyl ether	20.0	17.5	88	0	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.: 410-57303-1

SDG No.:

Lab File ID: WC11X05.D Lab Sample ID: MB 410-181168/6

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

Instrument ID: 9137 Date Analyzed: 10/11/2021 10:28

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 410-181168/4	WC11X03.D	10/11/2021 09:43
FB-20210929	410-57303-12	WC11X06.D	10/11/2021 10:50
TripBlank-20210930	410-57303-21	WC11X07.D	10/11/2021 11:13
MW-10D-20210928	410-57303-3	WC11X08.D	10/11/2021 11:35
MW-10D-20210928 MS	410-57303-3 MS	WC11X09.D	10/11/2021 11:57
MW-10D-20210928 MSD	410-57303-3 MSD	WC11X10.D	10/11/2021 12:20
MW-1-20210928	410-57303-1	WC11X11.D	10/11/2021 12:42
MW-10S-20210928	410-57303-2	WC11X12.D	10/11/2021 13:05
MW-8S-20210928	410-57303-4	WC11X13.D	10/11/2021 13:27
MW-8D-20210928	410-57303-5	WC11X14.D	10/11/2021 13:49
MW-7S-20210929	410-57303-6	WC11X15.D	10/11/2021 14:12
MW-7D-20210929	410-57303-7	WC11X16.D	10/11/2021 14:33
MW-14S-20210929	410-57303-8	WC11X17.D	10/11/2021 14:55
MW-14D-20210929	410-57303-9	WC11X18.D	10/11/2021 15:18
MW-12S-20210929	410-57303-10	WC11X19.D	10/11/2021 15:40
MW-12D-20210929	410-57303-11	WC11X20.D	10/11/2021 16:03
MW-11S-20210929	410-57303-13	WC11X21.D	10/11/2021 16:25
MW-11D-20210929	410-57303-14	WC11X22.D	10/11/2021 16:47
MW-4S-20210929	410-57303-15	WC11X23.D	10/11/2021 17:10
MW-4D-20210929	410-57303-16	WC11X24.D	10/11/2021 17:32
MW-3-20210930	410-57303-17	WC11X25.D	10/11/2021 17:54
MW-13S-20210930	410-57303-18	WC11X26.D	10/11/2021 18:17
MW-13D-20210930	410-57303-19	WC11X27.D	10/11/2021 18:39
DUP-20210930	410-57303-20	WC11X28.D	10/11/2021 19:01

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: WY25T01.D BFB Injection Date: 05/25/2021

Instrument ID: 9137 BFB Injection Time: 14:32

Analysis Batch No.: 130493

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	6.3	(7.6) 1
176	95.0 - 101.0 % of mass 174	80.2	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.3	(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
	IC 410-130493/3	WY25I01.D	05/25/2021	15:47
	IC 410-130493/4	WY25I02.D	05/25/2021	16:09
	ICIS 410-130493/5	WY25I03.D	05/25/2021	16:31
	IC 410-130493/6	WY25I04.D	05/25/2021	16:54
	IC 410-130493/7	WY25I05.D	05/25/2021	17:17
	IC 410-130493/8	WY25I06.D	05/25/2021	17:39
	IC 410-130493/9	WY25I07.D	05/25/2021	18:01
	ICV 410-130493/11	WY25V01.D	05/25/2021	18:46

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: WC11T01.D BFB Injection Date: 10/11/2021

Instrument ID: 9137 BFB Injection Time: 08:30

Analysis Batch No.: 181168

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.3
75	30.0 - 60.0 % of mass 95	43.9
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	87.1
175	5.0 - 9.0 % of mass 174	6.5 (7.5) 1
176	95.0 - 101.0 % of mass 174	85.5 (98.1) 1
177	5.0 - 9.0 % of mass 176	5.8 (6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-181168/3	WC11X02.D	10/11/2021	9:21
	LCS 410-181168/4	WC11X03.D	10/11/2021	9:43
	MB 410-181168/6	WC11X05.D	10/11/2021	10:28
FB-20210929	410-57303-12	WC11X06.D	10/11/2021	10:50
TripBlank-20210930	410-57303-21	WC11X07.D	10/11/2021	11:13
MW-10D-20210928	410-57303-3	WC11X08.D	10/11/2021	11:35
MW-10D-20210928 MS	410-57303-3 MS	WC11X09.D	10/11/2021	11:57
MW-10D-20210928 MSD	410-57303-3 MSD	WC11X10.D	10/11/2021	12:20
MW-1-20210928	410-57303-1	WC11X11.D	10/11/2021	12:42
MW-10S-20210928	410-57303-2	WC11X12.D	10/11/2021	13:05
MW-8S-20210928	410-57303-4	WC11X13.D	10/11/2021	13:27
MW-8D-20210928	410-57303-5	WC11X14.D	10/11/2021	13:49
MW-7S-20210929	410-57303-6	WC11X15.D	10/11/2021	14:12
MW-7D-20210929	410-57303-7	WC11X16.D	10/11/2021	14:33
MW-14S-20210929	410-57303-8	WC11X17.D	10/11/2021	14:55
MW-14D-20210929	410-57303-9	WC11X18.D	10/11/2021	15:18
MW-12S-20210929	410-57303-10	WC11X19.D	10/11/2021	15:40
MW-12D-20210929	410-57303-11	WC11X20.D	10/11/2021	16:03
MW-11S-20210929	410-57303-13	WC11X21.D	10/11/2021	16:25
MW-11D-20210929	410-57303-14	WC11X22.D	10/11/2021	16:47
MW-4S-20210929	410-57303-15	WC11X23.D	10/11/2021	17:10
MW-4D-20210929	410-57303-16	WC11X24.D	10/11/2021	17:32
MW-3-20210930	410-57303-17	WC11X25.D	10/11/2021	17:54
MW-13S-20210930	410-57303-18	WC11X26.D	10/11/2021	18:17
MW-13D-20210930	410-57303-19	WC11X27.D	10/11/2021	18:39
DUP-20210930	410-57303-20	WC11X28.D	10/11/2021	19:01

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: ICIS 410-130493/5 Date Analyzed: 05/25/2021 16:31

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WY25I03.D Heated Purge: (Y/N) N

Calibration ID: 25522

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		309457	2.81	1268131	5.12	957474	8.23
UPPER LIMIT		618914	3.31	2536262	5.62	1914948	8.73
LOWER LIMIT		154729	2.31	634066	4.62	478737	7.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-130493/11		272818	2.81	1245279	5.12	954911	8.23
CCVIS 410-181168/3		270747	2.81	1051958	5.12	818461	8.23

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.: 410-57303-1

SDG No.:

Sample No.: ICIS 410-130493/5 Date Analyzed: 05/25/2021 16:31

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WY25I03.D Heated Purge: (Y/N) N

Calibration ID: 25522

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		519957	10.10				
UPPER LIMIT		1039914	10.60				
LOWER LIMIT		259979	9.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-130493/11		509633	10.10				
CCVIS 410-181168/3		451106	10.10				

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181168/3 Date Analyzed: 10/11/2021 09:21

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WC11X02.D Heated Purge: (Y/N) N

Calibration ID: 25522

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		270747	2.81	1051958	5.12	818461	8.23
UPPER LIMIT		541494	3.31	2103916	5.62	1636922	8.73
LOWER LIMIT		135374	2.31	525979	4.62	409231	7.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-181168/4		266153	2.82	1047246	5.12	801118	8.23
MB 410-181168/6		259977	2.81	1004487	5.12	773138	8.23
410-57303-12	FB-20210929	220687	2.81	978159	5.13	760221	8.23
410-57303-21	TripBlank-20210930	209155	2.82	973423	5.12	745955	8.23
410-57303-3	MW-10D-20210928	203230	2.81	976467	5.12	755543	8.23
410-57303-3 MS	MW-10D-20210928 MS	222981	2.82	1016312	5.12	781287	8.23
410-57303-3 MSD	MW-10D-20210928 MSD	200406	2.81	1019339	5.12	781079	8.23
410-57303-1	MW-1-20210928	188776	2.82	961812	5.12	747371	8.23
410-57303-2	MW-10S-20210928	235232	2.82	977329	5.12	747460	8.23
410-57303-4	MW-8S-20210928	204177	2.81	964913	5.12	738651	8.23
410-57303-5	MW-8D-20210928	189092	2.82	967219	5.12	738293	8.23
410-57303-6	MW-7S-20210929	203302	2.81	941998	5.12	732177	8.23
410-57303-7	MW-7D-20210929	195397	2.82	953226	5.12	731882	8.23
410-57303-8	MW-14S-20210929	194306	2.82	938804	5.12	722607	8.23
410-57303-9	MW-14D-20210929	183343	2.81	940571	5.12	723196	8.23
410-57303-10	MW-12S-20210929	185843	2.82	933606	5.12	726431	8.23
410-57303-11	MW-12D-20210929	180134	2.81	940866	5.12	720389	8.23
410-57303-13	MW-11S-20210929	198615	2.81	939766	5.12	726329	8.23
410-57303-14	MW-11D-20210929	197576	2.82	934058	5.12	727219	8.23
410-57303-15	MW-4S-20210929	207490	2.82	917333	5.12	718517	8.23
410-57303-16	MW-4D-20210929	191801	2.82	935797	5.12	710870	8.23
410-57303-17	MW-3-20210930	199644	2.81	924123	5.12	722702	8.23
410-57303-18	MW-13S-20210930	177994	2.82	945089	5.12	721631	8.23
410-57303-19	MW-13D-20210930	196402	2.81	921438	5.12	718337	8.23
410-57303-20	DUP-20210930	166173	2.81	932778	5.12	719318	8.23

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181168/3 Date Analyzed: 10/11/2021 09:21

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WC11X02.D Heated Purge: (Y/N) N

Calibration ID: 25522

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		451106	10.10				
UPPER LIMIT		902212	10.60				
LOWER LIMIT		225553	9.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-181168/4		436344	10.10				
MB 410-181168/6		398939	10.10				
410-57303-12	FB-20210929	394471	10.10				
410-57303-21	TripBlank-20210930	384673	10.10				
410-57303-3	MW-10D-20210928	384013	10.10				
410-57303-3 MS	MW-10D-20210928 MS	433558	10.10				
410-57303-3 MSD	MW-10D-20210928 MSD	432535	10.10				
410-57303-1	MW-1-20210928	389109	10.10				
410-57303-2	MW-10S-20210928	387532	10.10				
410-57303-4	MW-8S-20210928	384709	10.10				
410-57303-5	MW-8D-20210928	386463	10.10				
410-57303-6	MW-7S-20210929	381790	10.10				
410-57303-7	MW-7D-20210929	382425	10.10				
410-57303-8	MW-14S-20210929	379155	10.10				
410-57303-9	MW-14D-20210929	369811	10.10				
410-57303-10	MW-12S-20210929	368309	10.10				
410-57303-11	MW-12D-20210929	371102	10.10				
410-57303-13	MW-11S-20210929	377286	10.10				
410-57303-14	MW-11D-20210929	374707	10.10				
410-57303-15	MW-4S-20210929	380130	10.10				
410-57303-16	MW-4D-20210929	365753	10.10				
410-57303-17	MW-3-20210930	402955	10.10				
410-57303-18	MW-13S-20210930	392015	10.10				
410-57303-19	MW-13D-20210930	383585	10.10				
410-57303-20	DUP-20210930	400914	10.10				

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-1-20210928 Lab Sample ID: 410-57303-1

Matrix: Ground Water Lab File ID: WC11X11.D

Analysis Method: 8260C Date Collected: 09/28/2021 11:16

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 12:42

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.: 181168 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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	87		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X11.D
Lims ID: 410-57303-C-1
Client ID: MW-1-20210928
Sample Type: Client
Inject. Date: 11-Oct-2021 12:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-012
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:52:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	100	188776	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	222519	50.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.775	0.000	77	62104	53.6	
58 Benzene	78		4.842				ND	7
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	961812	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	949244	48.5	
80 Toluene	92		6.857				ND	7
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	747371	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	93	328249	43.3	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	389109	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

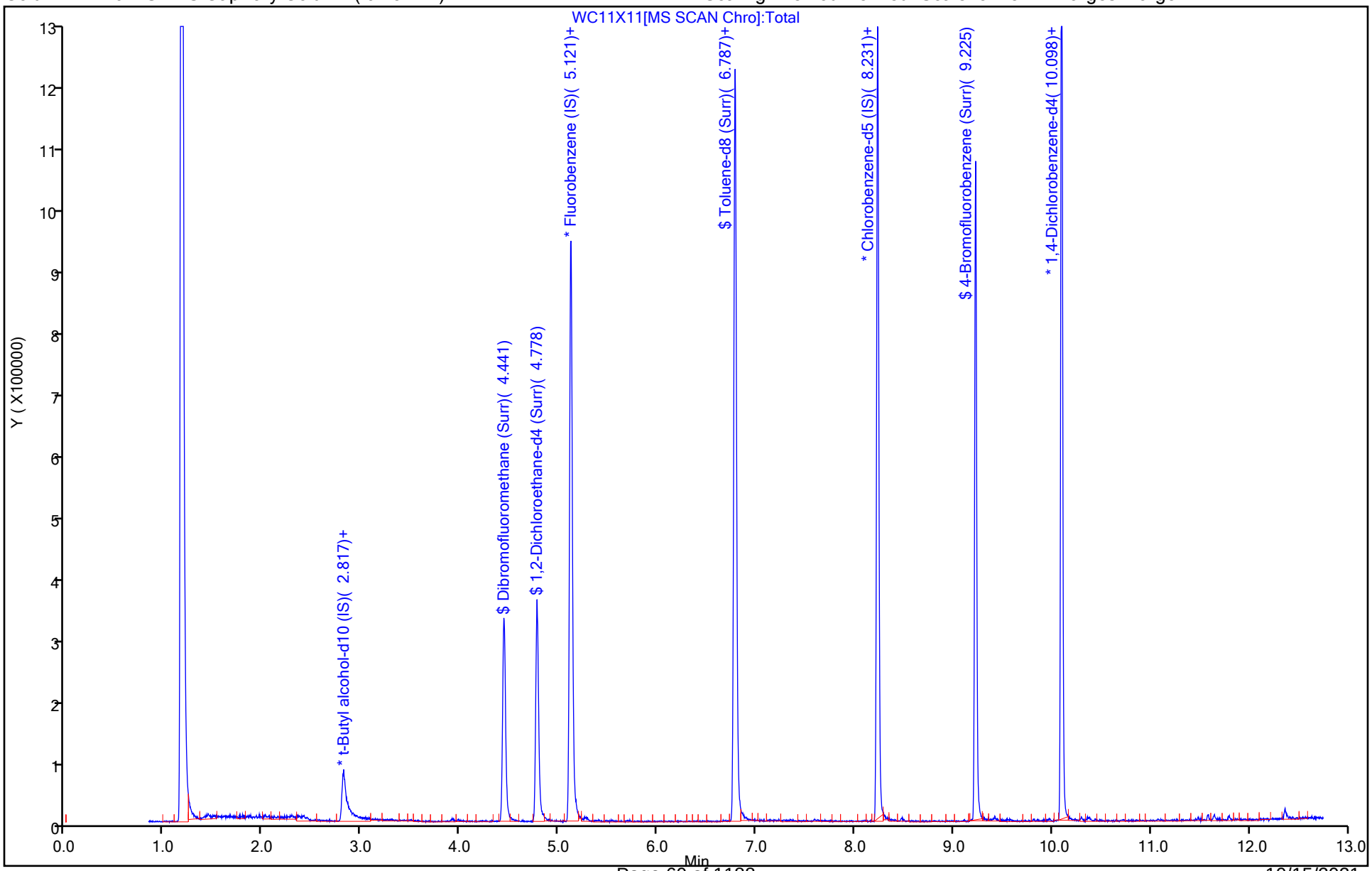
Report Date: 11-Oct-2021 16:55:10 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X11.D

Injection Date:	11-Oct-2021 12:42:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-1	Lab Sample ID:	410-57303-1	Worklist Smp#:	12
Client ID:	MW-1-20210928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-10S-20210928 Lab Sample ID: 410-57303-2

Matrix: Ground Water Lab File ID: WC11X12.D

Analysis Method: 8260C Date Collected: 09/28/2021 13:37

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 13:05

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.: 181168 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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X12.D
Lims ID: 410-57303-C-2
Client ID: MW-10S-20210928
Sample Type: Client
Inject. Date: 11-Oct-2021 13:05:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-013
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:52:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	235232	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	221355	49.7	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	61581	52.3	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	977329	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	941547	48.1	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	747460	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	94	325355	42.9	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	387532	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

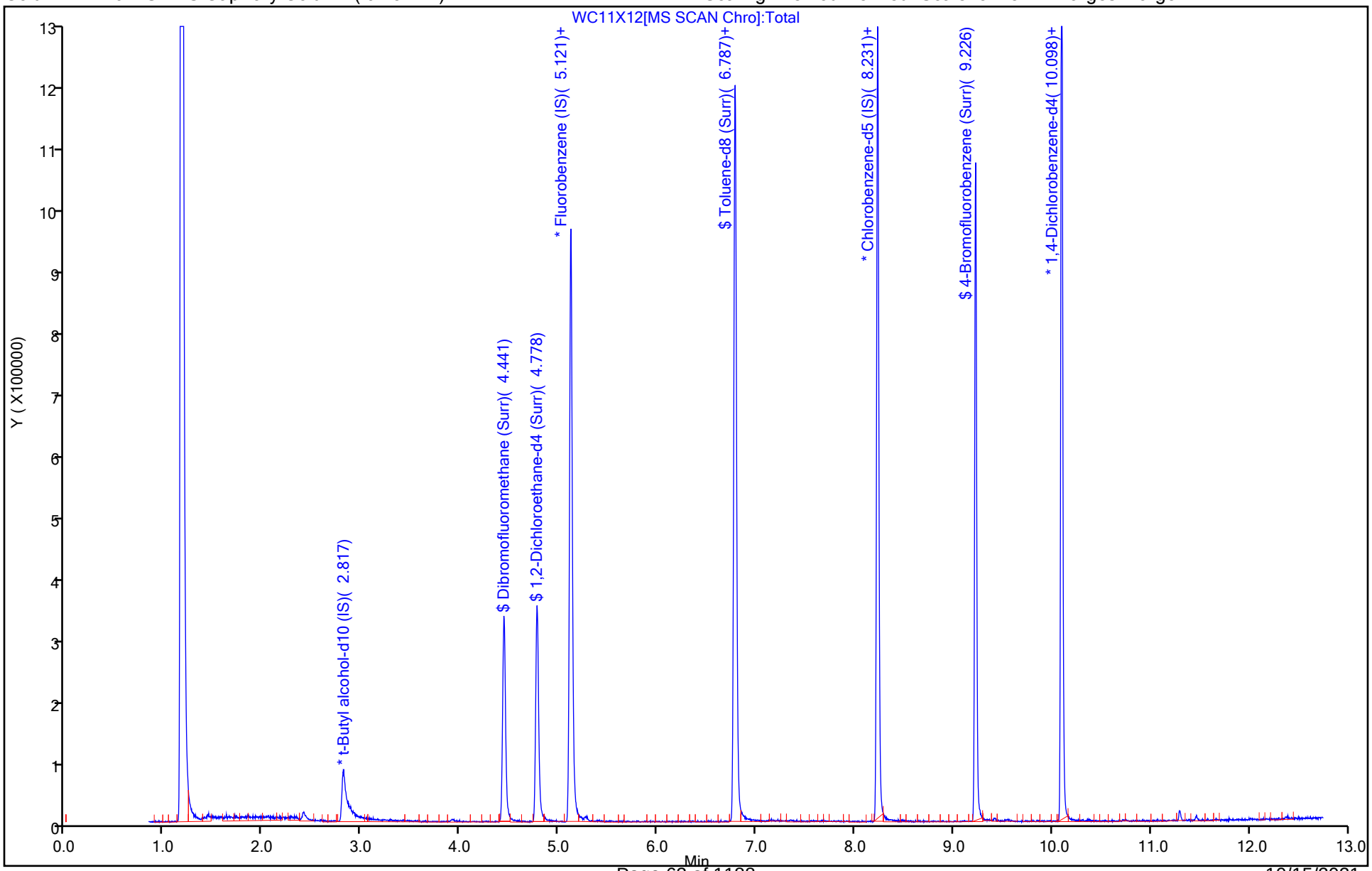
Report Date: 11-Oct-2021 16:55:11 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X12.D

Injection Date:	11-Oct-2021 13:05:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-2	Lab Sample ID:	410-57303-2	Worklist Smp#:	13
Client ID:	MW-10S-20210928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 Lab Sample ID: 410-57303-3

Matrix: Ground Water Lab File ID: WC11X08.D

Analysis Method: 8260C Date Collected: 09/28/2021 14:43

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 11:35

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.: 181168 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)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X08.D
Lims ID: 410-57303-C-3
Client ID: MW-10D-20210928
Sample Type: Client
Inject. Date: 11-Oct-2021 11:35:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-009
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: papel Date: 11-Oct-2021 12:28:39

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
A	1 C4-C10	1		(0.000-0.100)				ND	
A	2 C4-C12	1		(0.000-0.250)				ND	
	3 Chlorotrifluoroethene	116		1.264				ND	
	4 Dichlorodifluoromethane	85		1.290				ND	
	6 2-Chloro-1,1,1-Trifluoroethane	118		1.396				ND	
	7 Chloromethane	50		1.428				ND	
	8 Vinyl chloride	62		1.495				ND	
	5 Chlorodifluoromethane	51		1.505				ND	
	9 Butadiene	39		1.521				ND	7
	10 Bromomethane	94		1.739				ND	7
	11 Chloroethane	64		1.806				ND	
	12 Ethyl ether	59		1.926				ND	
	13 Dichlorofluoromethane	67		1.938				ND	
	14 Trichlorofluoromethane	101		1.986				ND	
	15 Pentane	43		2.025				ND	7
	16 Ethanol	45		2.089				ND	
	17 1,2-Dichloro-1,1,2-trifluoroetha	67		2.185				ND	
	18 Acrolein	56		2.281				ND	7
	20 1,1-Dichloroethene	96		2.394				ND	
	21 112TCTFE	101		2.400				ND	
	22 Acetone	58		2.406				ND	
	23 Isopropyl alcohol	45		2.519				ND	U
	19 Acetonitrile	41		2.528				ND	
	24 Iodomethane	142		2.532				ND	
	25 Carbon disulfide	76		2.580				ND	7
	26 3-Chloro-1-propene	41		2.679				ND	
	27 Methyl acetate	43		2.698				ND	
*	28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	99	203230	250.0	
	29 Methylene Chloride	84		2.817				ND	
	30 2-Methyl-2-propanol	59		2.885				ND	
	31 Acrylonitrile	53		3.003				ND	
	32 trans-1,2-Dichloroethene	96		3.039				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		3.042				ND	
34 Vinyl acetate	43	3.196	3.096	0.100	9	54	NC	
35 Hexane	57		3.295				ND	
36 1,1-Dichloroethane	63		3.424				ND	
37 Isopropyl ether	45		3.498				ND	
38 2-Chloro-1,3-butadiene	53		3.514				ND	
39 Ethyl acetate	43		3.802				ND	
40 Tert-butyl ethyl ether	59		3.841				ND	
41 cis-1,2-Dichloroethene	96		3.976				ND	
42 2,2-Dichloropropane	77		3.976				ND	
43 2-Butanone (MEK)	43		3.992				ND	
44 Propionitrile	54		4.049				ND	
45 Methacrylonitrile	67		4.197				ND	
46 Chlorobromomethane	128		4.207				ND	
47 Tetrahydrofuran	71		4.255				ND	
48 Chloroform	83		4.284				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	224896	50.5	
51 1,1,1-Trichloroethane	97		4.470				ND	
52 Isopropyl acetate	43		4.524				ND	
53 Cyclohexane	56		4.531				ND	
54 1,1-Dichloropropene	75		4.637				ND	
55 Carbon tetrachloride	117		4.637				ND	
56 Isobutyl alcohol	41		4.759				ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	63261	53.8	
58 Benzene	78		4.842				ND	
59 1,2-Dichloroethane	62		4.855				ND	7
60 Tert-amyl methyl ether	73		4.961				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	976467	50.0	
62 n-Heptane	43		5.124				ND	7
63 n-Butanol	56		5.442				ND	
64 Trichloroethene	95		5.497				ND	
65 n-Propyl acetate	61		5.529				ND	
66 Methylcyclohexane	83		5.699				ND	
67 1,2-Dichloropropane	63		5.724				ND	
68 2-ethoxy-2-methyl butane	87		5.776				ND	
69 Dibromomethane	93		5.840				ND	
70 Methyl methacrylate	69		5.866				ND	
71 1,4-Dioxane	88		5.872				ND	
72 Dichlorobromomethane	83		6.013				ND	
S 73 1,2-Dichloroethene, Total	100		6.155				ND	7
74 2-Nitropropane	41		6.260				ND	
75 2-Chloroethyl vinyl ether	63		6.347				ND	
A 76 C6-C10	1	6.394	(2.952-9.836)		0	2826324	NC	
77 cis-1,3-Dichloropropene	75		6.495				ND	
78 4-Methyl-2-pentanone (MIBK)	43		6.674				ND	7
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	942953	47.7	
80 Toluene	92		6.857				ND	
81 trans-1,3-Dichloropropene	75		7.101				ND	
82 3,4-Dichloro-1-butene	75		7.104				ND	
A 83 C5-C12	1	7.153	(2.686-11.621)		0	2969711	NC	
84 Ethyl methacrylate	69		7.223				ND	
A 85 C6-C12	1	7.286	(2.952-11.621)		0	2959556	NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	97		7.294				ND	
87 n-Butyl acetate	43		7.326				ND	
88 Tetrachloroethene	166		7.444				ND	
89 1,3-Dichloropropane	76		7.467				ND	
90 2-Hexanone	43		7.566				ND	
91 Chlorodibromomethane	129		7.688				ND	
92 Ethylene Dibromide	107		7.791				ND	
93 t-Amyl alcohol	73		7.842				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	755543	50.0	
95 1-Chlorohexane	91		8.253				ND	7
96 Chlorobenzene	112		8.256				ND	
97 1,1,1,2-Tetrachloroethane	131		8.333				ND	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
101 Styrene	104		8.815				ND	
102 cis-1,4-Dichloro-2-butene	88		8.833				ND	
103 Bromoform	173		8.959				ND	
104 Isopropylbenzene	105		9.110				ND	
105 Cyclohexanone	55		9.174				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	93	323615	42.2	
107 2,3,4-Trichlorobutene	109		9.296				ND	
108 Bromobenzene	156		9.338				ND	
109 1,1,2,2-Tetrachloroethane	83		9.341				ND	
110 1,2,3-Trichloropropane	110		9.373				ND	
111 trans-1,4-Dichloro-2-butene	53		9.386				ND	
112 N-Propylbenzene	91		9.431				ND	
113 2-Chlorotoluene	126		9.492				ND	
114 1,3,5-Trimethylbenzene	105		9.569				ND	
115 4-Chlorotoluene	126		9.578				ND	
116 tert-Butylbenzene	134		9.813				ND	
117 Pentachloroethane	167		9.822				ND	
118 1,2,4-Trimethylbenzene	105		9.848				ND	
119 sec-Butylbenzene	105		9.973				ND	
T 120 Ethyl acrylate TIC	55		10.000				ND	U
121 1,3-Dichlorobenzene	146		10.050				ND	7
S 122 1,3-Dichloropropene, Total	100		10.060				ND	7
123 4-Isopropyltoluene	119		10.079				ND	7
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	384013	50.0	
125 1,4-Dichlorobenzene	146		10.114				ND	U
126 1,2,3-Trimethylbenzene	105		10.156				ND	
127 Benzyl chloride	91		10.211				ND	
128 p-Diethylbenzene	119		10.294				ND	
129 1,3-Diethylbenzene	119		10.352				ND	
130 n-Butylbenzene	92		10.371				ND	
131 1,2-Dichlorobenzene	146		10.381				ND	
132 o-diethylbenzene	119		10.435				ND	
133 1,2-Dibromo-3-Chloropropane	75		10.917				ND	
134 1,2,4-Trichlorobenzene	180		11.061				ND	
S 135 Xylenes, Total	106		11.245				ND	7
136 1,2,3-Trichlorobenzene	180		11.472				ND	
137 Hexachlorobutadiene	225		11.581				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
138 Naphthalene	128		11.635				ND	7
139 1,3,5-Trichlorobenzene	180		11.789				ND	
140 2-Methylnaphthalene	142		12.354				ND	
141 Hexachloroethane	201		13.560				ND	
142 1,3-Dichlorobutene-2(total)	1		0.000				ND	
143 Propanol TIC	1		0.000				ND	
144 Acetonitrile TIC	1		0.000				ND	
145 2-Chloroethanol TIC	1		0.000				ND	
T 146 Hexachloroethane TIC	117		0.000				ND	
147 1,3-Dichlorobutene-2(total) TIC	1		0.000				ND	
148 Nitrobenzene TIC	1		0.000				ND	
149 Bromoethane TIC	1		0.000				ND	
150 2-Pentanone (TIC)	1		0.000				ND	
151 Malononitrile (TIC)	1		0.000				ND	
152 Epibromohydrin TIC	1		0.000				ND	
153 2-Picoline (TIC)	1		0.000				ND	
154 Chloroacetaldehyde TIC	1		0.000				ND	
155 Vinyl acetate (TIC)	1		0.000				ND	
156 Allyl Alcohol TIC	1		0.000				ND	
157 Vinyl bromide TIC	1		0.000				ND	
158 1-Bromopropane TIC	1		0.000				ND	
159 Epichlorohydrin TIC	1		0.000				ND	
179 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
180 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
162 Bis(2-chloroethyl)sulfide (TIC)	1		0.000				ND	
163 Ethylene oxide TIC	1		0.000				ND	
164 Paraldehyde TIC	1		0.000				ND	
165 Bromoacetone (TIC)	1		0.000				ND	
166 2,3-Dibromopropene TIC	1		0.000				ND	
167 Methanol TIC	1		0.000				ND	
168 Chloral hydrate (TIC)	1		0.000				ND	
169 3-Chloro-1,2-propanediol TIC	1		0.000				ND	
160 Pentafluorobenzene TIC	1		0.000				ND	
171 Pentachloroethane TIC	1		0.000				ND	
172 Monochloroacetic acid TIC	1		0.000				ND	
173 Ethanol TIC	1		0.000				ND	
174 Propargyl alcohol TIC	1		0.000				ND	
175 beta-Propiolactone TIC	1		0.000				ND	
176 Propene oxide	1		0.000				ND	
177 1-Chlorobutane	1		0.000				ND	
178 1,4-Divinylbenzene	1		0.000				ND	
161 2-Bromo-3-chloropropene TIC	1		0.000				ND	
170 1-Bromo-2-chloroethane TIC	1		0.000				ND	
181 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
215 Ethyl ether TIC	1		0.000				ND	
S 183 divinyl benzene	1		0.000				ND	7
184 1-Bromo-2-chloroethane	1		0.000				ND	
S 185 Total Diethylbenzene	1		0.000				ND	7
186 3-chloro-1-Butene	1		0.000				ND	
187 Methyl acrylate	1		0.000				ND	
188 tert-Butyl Formate	1		0.000				ND	
189 1,3-Divinylbenzene	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
190 Ethyl bromide	1		0.000				ND	
191 Chloroacetonitrile	1		0.000				ND	
192 Diethoxymethane	1		0.000				ND	
193 Methylal	1		0.000				ND	
197 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
198 Ethyl acrylate	55		0.000				ND	
199 1,2,3,4-Diepoxybutane (TIC)	1		0.000				ND	
224 Diethoxymethane TIC	1		0.000				ND	
182 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
202 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
203 1-Methyl-2-pyrrilidinone TIC	1		0.000				ND	
204 n-Propylamine (TIC)	1		0.000				ND	
205 2-Bromoethanol TIC	1		0.000				ND	
206 o-toluidine TIC	1		0.000				ND	
S 212 Total BTEX	1		0.000				ND	
213 Propene oxide TIC	1		0.000				ND	
214 2-Methylbutane TIC	1		0.000				ND	
200 N-Nitrosodi-n-butylamine TIC	1		0.000				ND	
216 Propane TIC	1		0.000				ND	
217 Propionaldehyde TIC	1		0.000				ND	
218 1-Chlorobutane TIC	1		0.000				ND	
219 Isooctane TIC	1		0.000				ND	
220 Ethyl Acetate TIC	1		0.000				ND	
221 Chlorodifluoromethane TIC	1		0.000				ND	
222 n-butyl Acetate TIC	1		0.000				ND	
223 Tetranitromethane TIC	1		0.000				ND	
201 2,3-Dibromo-1-propanol TIC	1		0.000				ND	
225 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_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

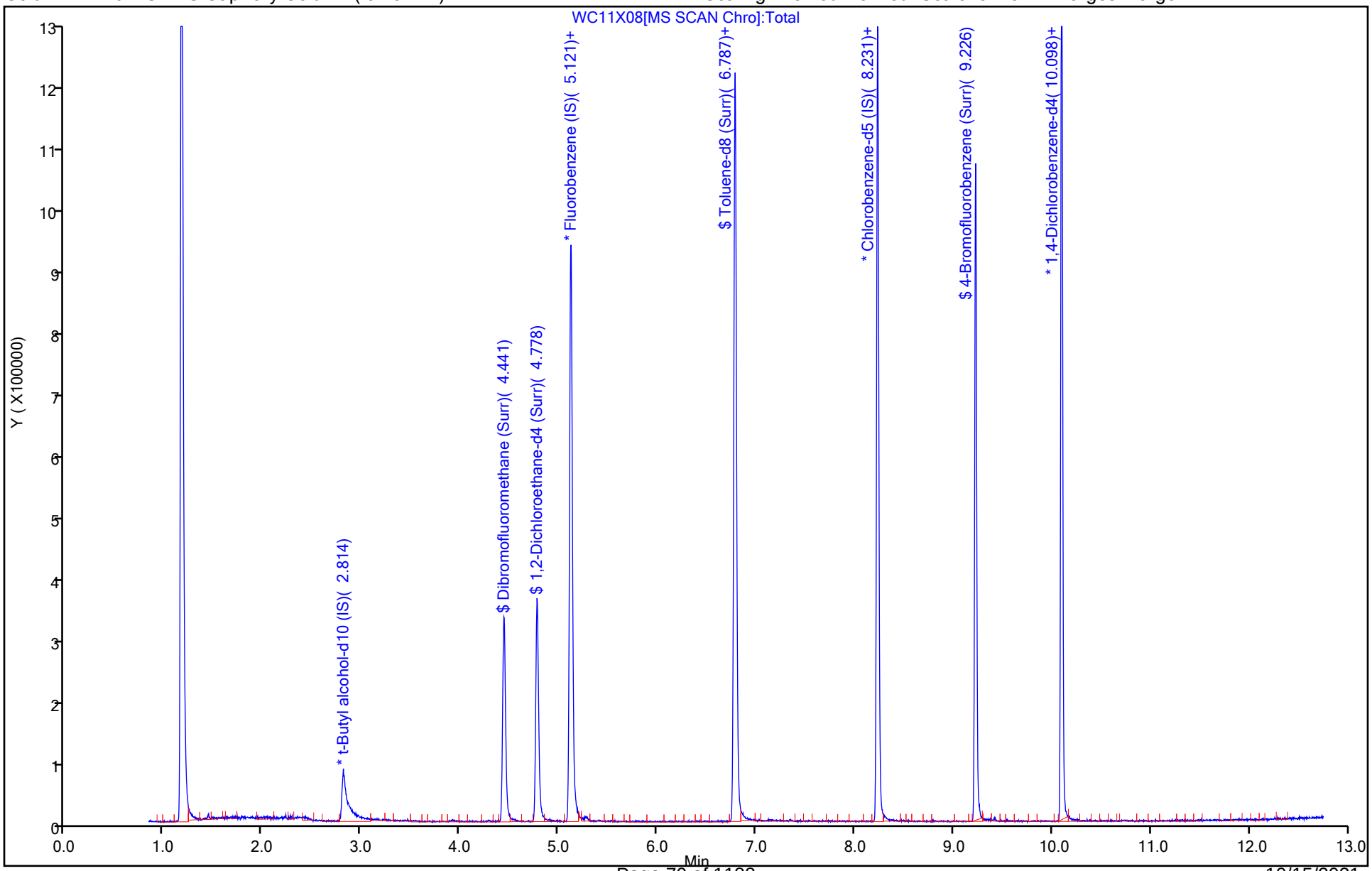
Report Date: 11-Oct-2021 16:55:05 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X08.D

Injection Date:	11-Oct-2021 11:35:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-3	Lab Sample ID:	410-57303-3	Worklist Smp#:	9
Client ID:	MW-10D-20210928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-8S-20210928 Lab Sample ID: 410-57303-4

Matrix: Ground Water Lab File ID: WC11X13.D

Analysis Method: 8260C Date Collected: 09/28/2021 15:24

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 13:27

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.: 181168 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)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X13.D
Lims ID: 410-57303-C-4
Client ID: MW-8S-20210928
Sample Type: Client
Inject. Date: 11-Oct-2021 13:27:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-014
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:53:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	100	204177	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	219016	49.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	60008	51.6	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	964913	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	921161	47.6	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	738651	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	92	320085	42.7	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	384709	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

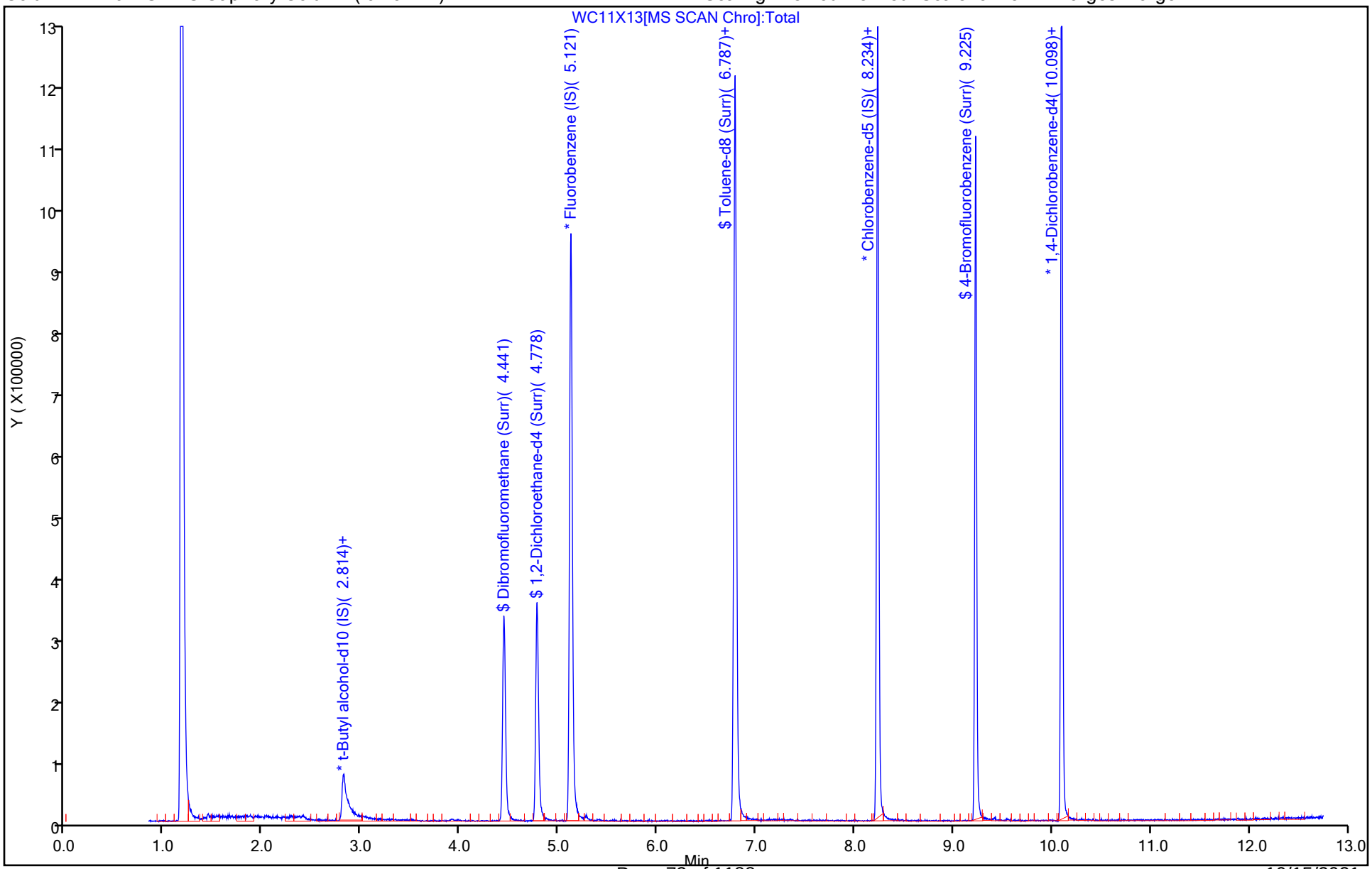
Report Date: 11-Oct-2021 16:55:12 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X13.D

Injection Date:	11-Oct-2021 13:27:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-4	Lab Sample ID:	410-57303-4	Worklist Smp#:	14
Client ID:	MW-8S-20210928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-8D-20210928 Lab Sample ID: 410-57303-5

Matrix: Ground Water Lab File ID: WC11X14.D

Analysis Method: 8260C Date Collected: 09/28/2021 16:03

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 13:49

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.: 181168 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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X14.D
Lims ID: 410-57303-C-5
Client ID: MW-8D-20210928
Sample Type: Client
Inject. Date: 11-Oct-2021 13:49:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-015
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:53:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	189092	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	217226	49.3	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	61657	52.9	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	967219	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	937913	48.5	
80 Toluene	92		6.857				ND	7
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	738293	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.229	9.222	0.007	94	322062	43.0	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	386463	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

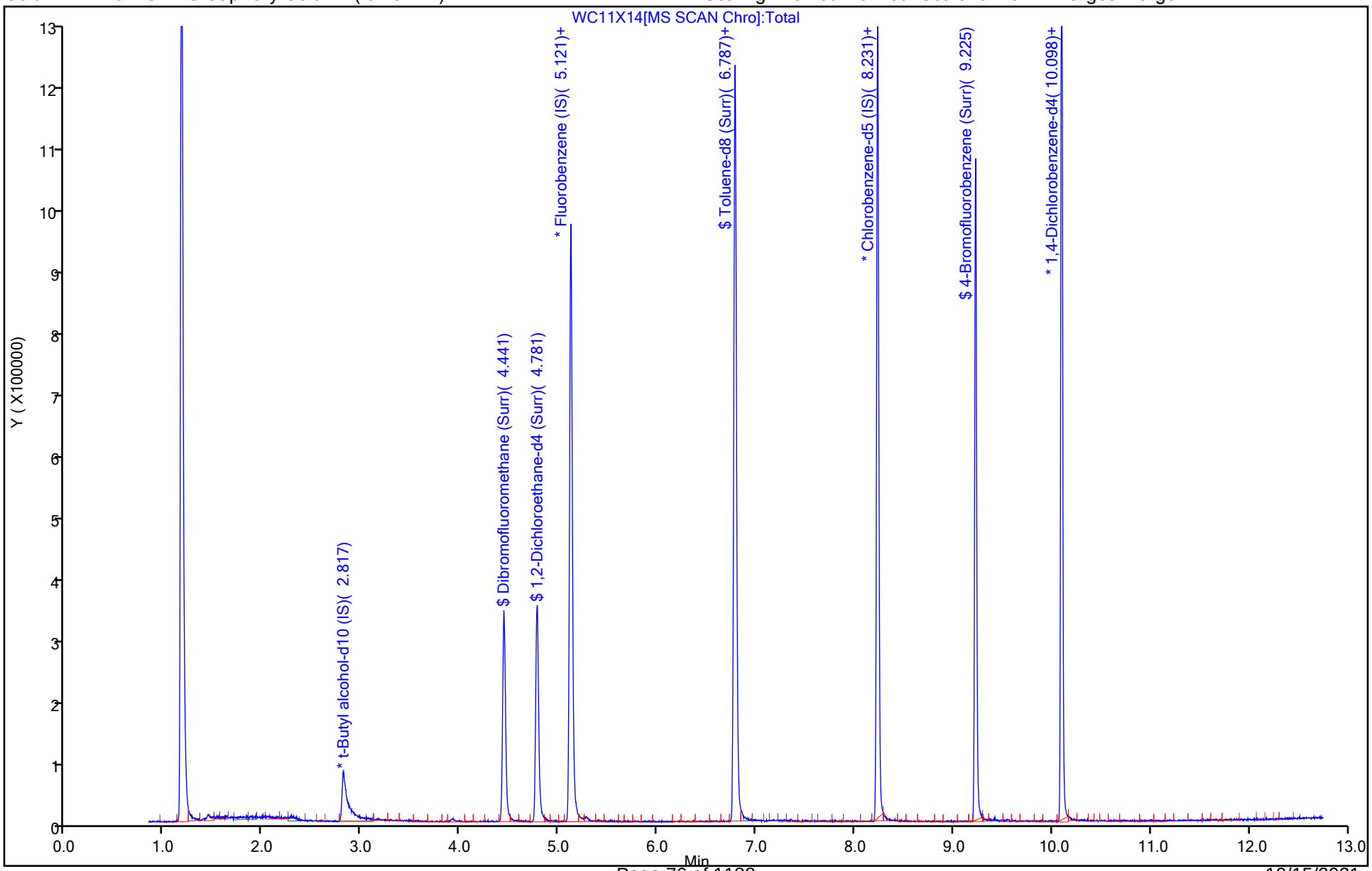
Report Date: 11-Oct-2021 16:55:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X14.D

Injection Date:	11-Oct-2021 13:49:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-5	Lab Sample ID:	410-57303-5	Worklist Smp#:	15
Client ID:	MW-8D-20210928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-7S-20210929 Lab Sample ID: 410-57303-6

Matrix: Ground Water Lab File ID: WC11X15.D

Analysis Method: 8260C Date Collected: 09/29/2021 08:48

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 14:12

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.: 181168 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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X15.D
Lims ID: 410-57303-C-6
Client ID: MW-7S-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 14:12:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-016
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:53:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	100	203302	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	214283	49.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	60687	53.5	
58 Benzene	78	4.836	4.842	-0.006	15	4681	0.2135	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	941998	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	922101	48.1	
80 Toluene	92		6.857				ND	7
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	732177	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	94	314894	42.4	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	381790	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

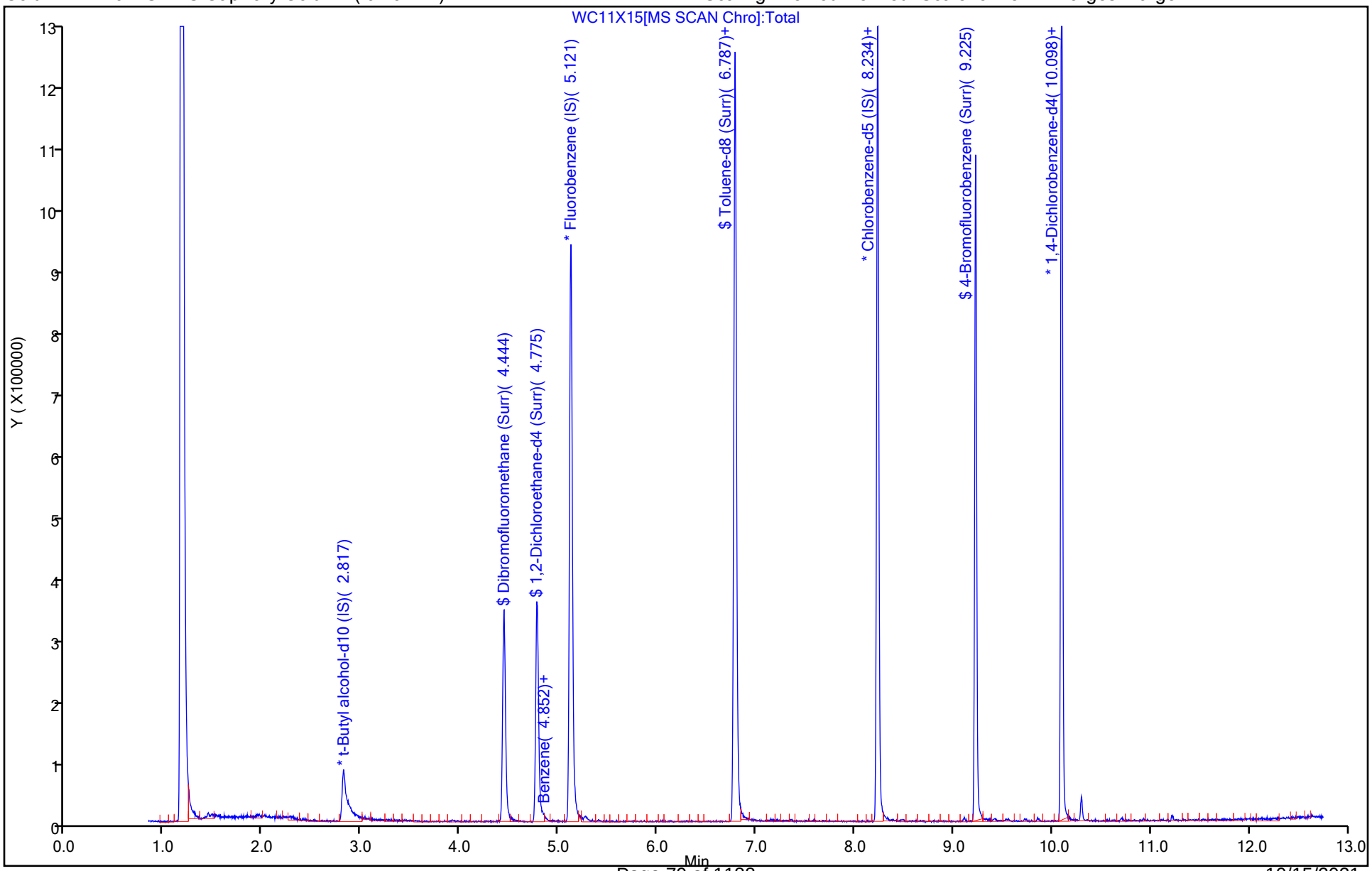
Report Date: 11-Oct-2021 16:55:14 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X15.D

Injection Date:	11-Oct-2021 14:12:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-6	Lab Sample ID:	410-57303-6	Worklist Smp#:	16
Client ID:	MW-7S-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-7D-20210929 Lab Sample ID: 410-57303-7

Matrix: Ground Water Lab File ID: WC11X16.D

Analysis Method: 8260C Date Collected: 09/29/2021 09:26

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 14:33

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.: 181168 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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X16.D
Lims ID: 410-57303-C-7
Client ID: MW-7D-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 14:33:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-017
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:53:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.821	2.808	0.013	99	195397	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	220827	50.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	77	60613	52.8	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	953226	50.0	
$ 79 Toluene-d8 (Surr)	98	6.784	6.787	-0.003	93	923249	48.2	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	731882	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	93	317844	42.8	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	382425	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

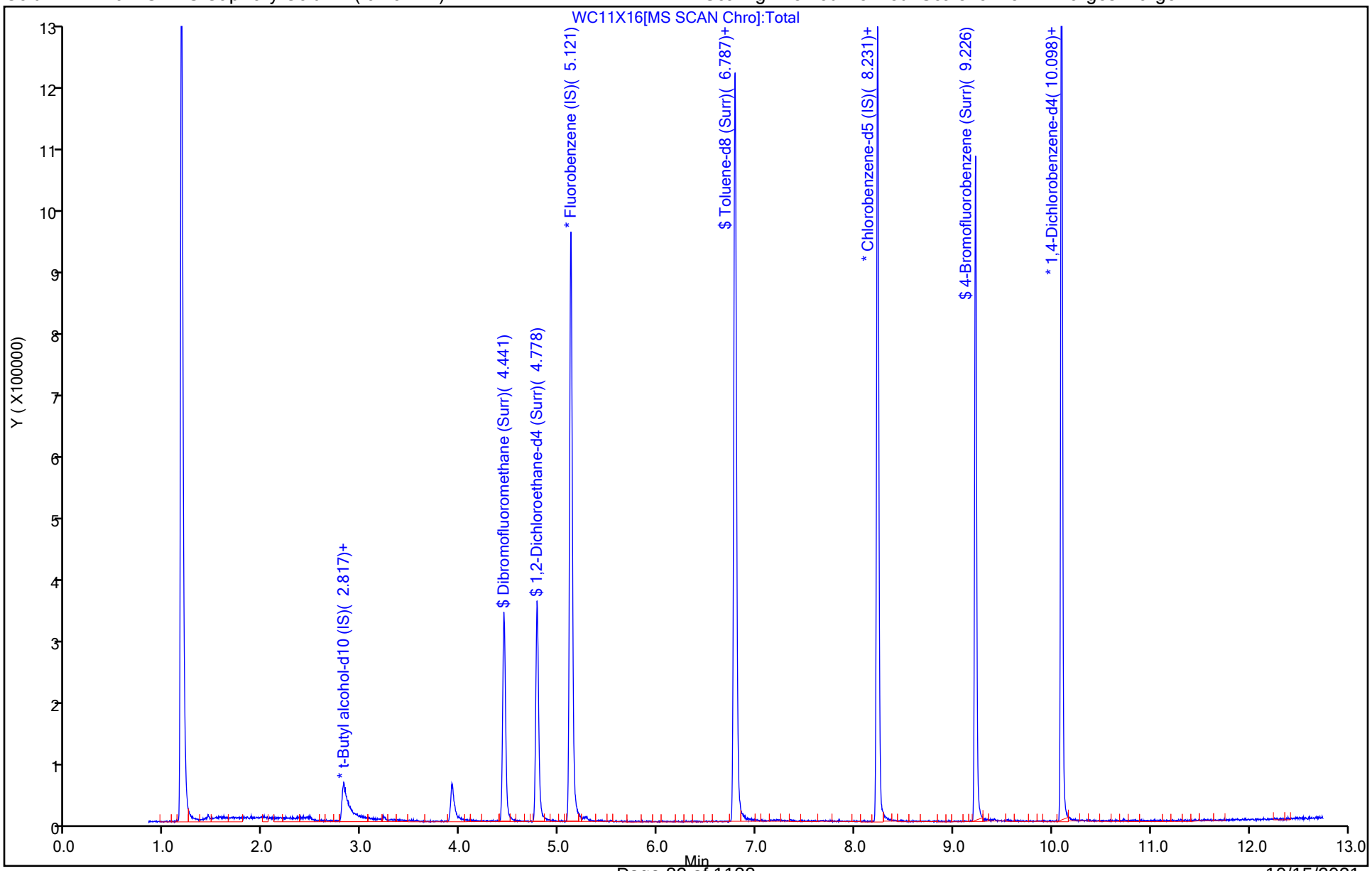
Report Date: 11-Oct-2021 16:55:15 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X16.D

Injection Date:	11-Oct-2021 14:33:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-7	Lab Sample ID:	410-57303-7	Worklist Smp#:	17
Client ID:	MW-7D-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-14S-20210929 Lab Sample ID: 410-57303-8

Matrix: Ground Water Lab File ID: WC11X17.D

Analysis Method: 8260C Date Collected: 09/29/2021 10:12

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 14:55

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.: 181168 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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X17.D
Lims ID: 410-57303-C-8
Client ID: MW-14S-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 14:55:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-018
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:53:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	194306	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	214658	50.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.775	0.000	78	60217	53.2	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	938804	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	912197	48.2	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	85	722607	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	93	305540	41.7	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	379155	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

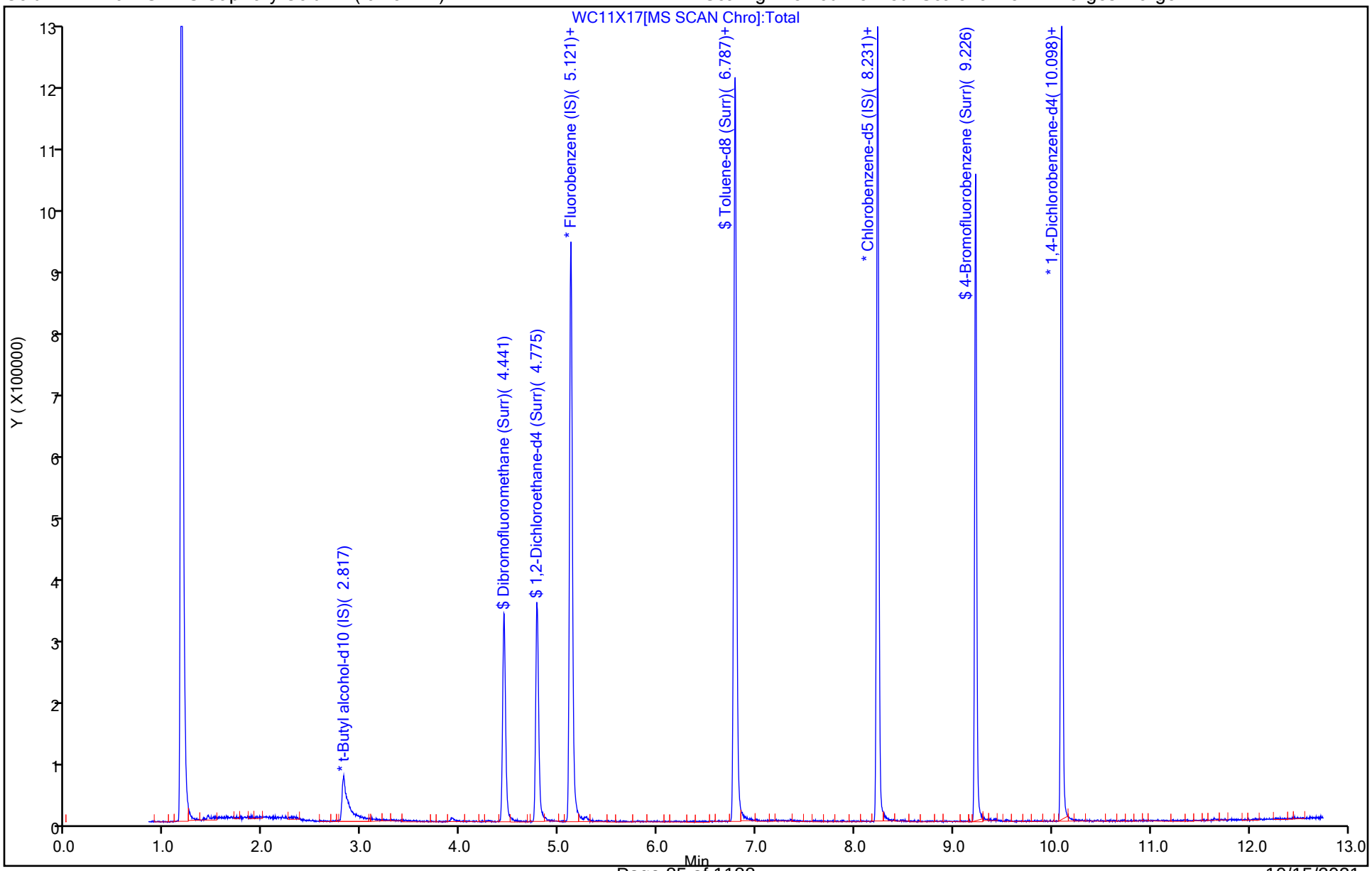
Report Date: 11-Oct-2021 16:55:16 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X17.D

Injection Date:	11-Oct-2021 14:55:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-8	Lab Sample ID:	410-57303-8	Worklist Smp#:	18
Client ID:	MW-14S-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-14D-20210929 Lab Sample ID: 410-57303-9

Matrix: Ground Water Lab File ID: WC11X18.D

Analysis Method: 8260C Date Collected: 09/29/2021 11:09

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 15:18

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.: 181168 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)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X18.D
Lims ID: 410-57303-C-9
Client ID: MW-14D-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 15:18:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-019
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:54:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	99	183343	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	217938	50.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	58556	51.7	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	940571	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	910533	48.1	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	723196	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	93	310577	42.3	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	369811	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

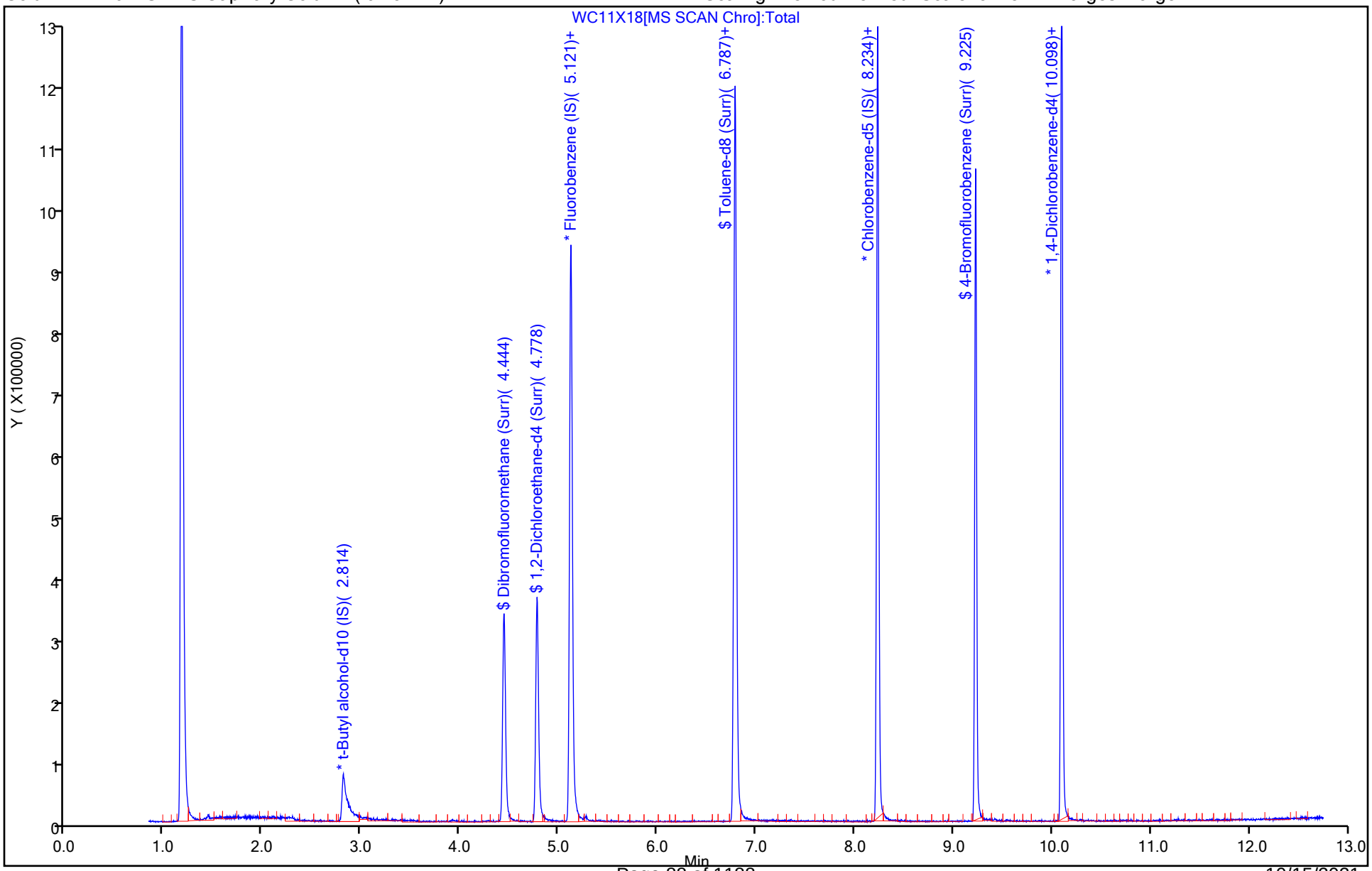
Report Date: 11-Oct-2021 16:55:16 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X18.D

Injection Date:	11-Oct-2021 15:18:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-9	Lab Sample ID:	410-57303-9	Worklist Smp#:	19
Client ID:	MW-14D-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-12S-20210929 Lab Sample ID: 410-57303-10

Matrix: Ground Water Lab File ID: WC11X19.D

Analysis Method: 8260C Date Collected: 09/29/2021 12:47

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 15:40

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.: 181168 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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X19.D
Lims ID: 410-57303-C-10
Client ID: MW-12S-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 15:40:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-020
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:54:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	185843	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	216078	50.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	58859	52.3	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	933606	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	911187	47.9	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	726431	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	92	307116	41.7	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	368309	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

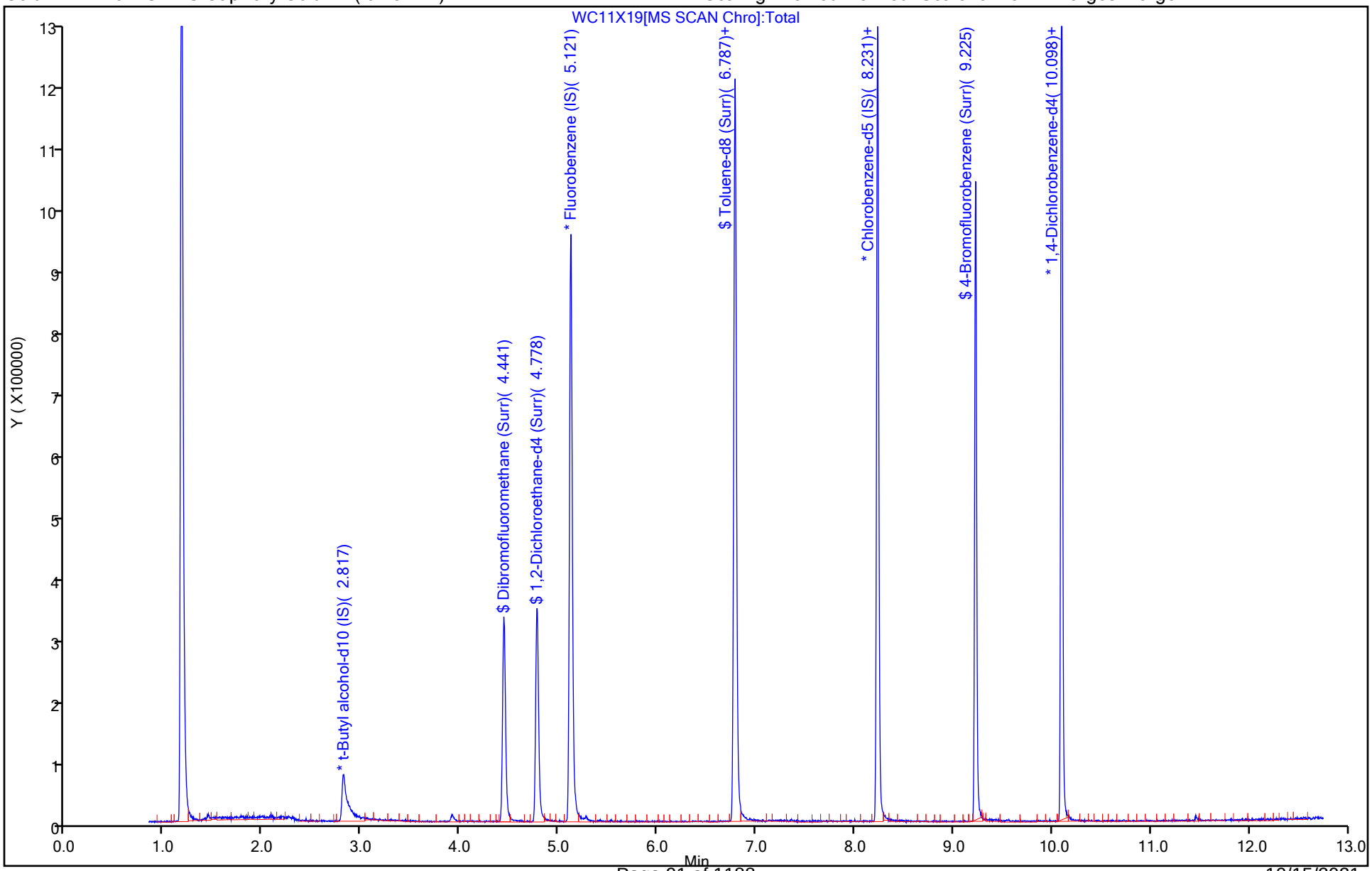
Report Date: 11-Oct-2021 16:55:17 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X19.D

Injection Date:	11-Oct-2021 15:40:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-10	Lab Sample ID:	410-57303-10	Worklist Smp#:	20
Client ID:	MW-12S-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-12D-20210929 Lab Sample ID: 410-57303-11

Matrix: Ground Water Lab File ID: WC11X20.D

Analysis Method: 8260C Date Collected: 09/29/2021 13:26

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 16:03

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.: 181168 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)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X20.D
Lims ID: 410-57303-C-11
Client ID: MW-12D-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 16:03:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-021
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:54:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	100	180134	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	93	211080	49.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	61272	54.0	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	940866	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	905027	48.0	
80 Toluene	92		6.857				ND	7
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	720389	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	93	304117	41.6	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	371102	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

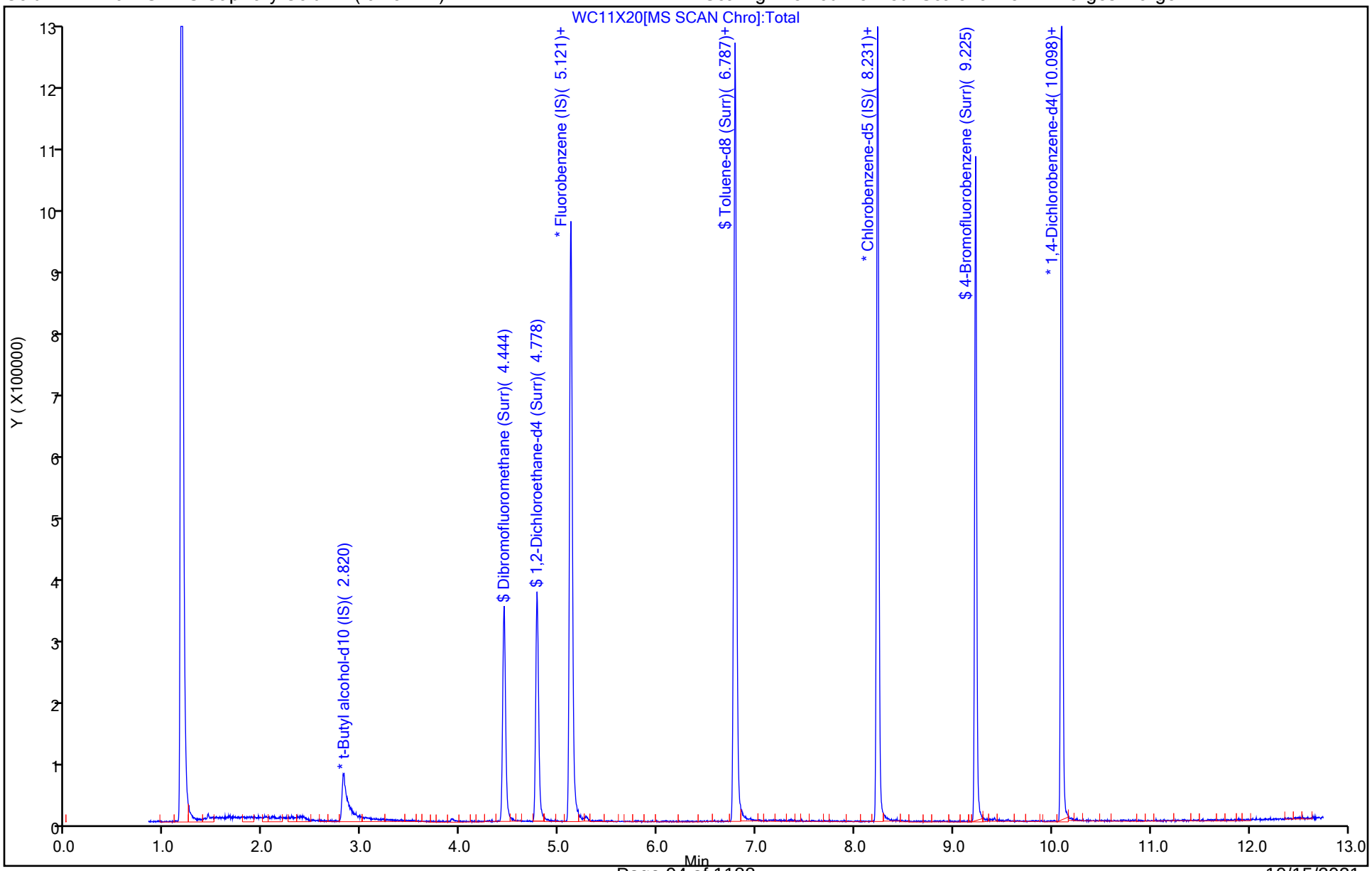
Report Date: 11-Oct-2021 16:55:18 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X20.D

Injection Date:	11-Oct-2021 16:03:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-11	Lab Sample ID:	410-57303-11	Worklist Smp#:	21
Client ID:	MW-12D-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: FB-20210929 Lab Sample ID: 410-57303-12

Matrix: Water Lab File ID: WC11X06.D

Analysis Method: 8260C Date Collected: 09/29/2021 13:40

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 10:50

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.: 181168 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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X06.D
Lims ID: 410-57303-C-12
Client ID: FB-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 10:50:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-007
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:50:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	100	220687	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.447	4.441	0.006	94	223755	50.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	62115	52.7	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.125	5.121	0.003	99	978159	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	94	953119	47.9	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	760221	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	93	329018	42.6	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	394471	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

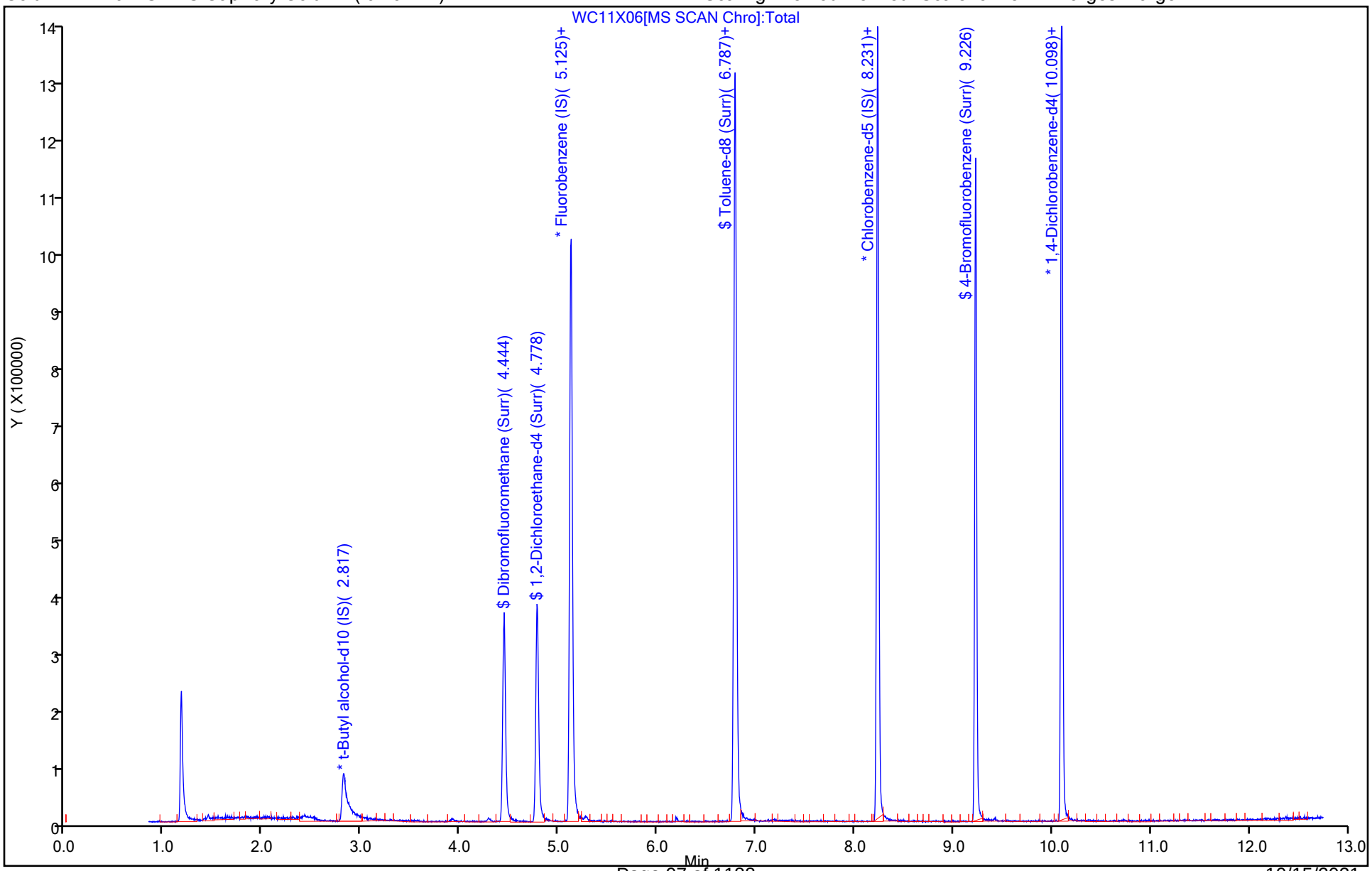
Report Date: 11-Oct-2021 16:55:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X06.D

Injection Date:	11-Oct-2021 10:50:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-12	Lab Sample ID:	410-57303-12	Worklist Smp#:	7
Client ID:	FB-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-11S-20210929 Lab Sample ID: 410-57303-13

Matrix: Ground Water Lab File ID: WC11X21.D

Analysis Method: 8260C Date Collected: 09/29/2021 14:20

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 16:25

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.: 181168 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)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X21.D
Lims ID: 410-57303-C-13
Client ID: MW-11S-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 16:25:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-022
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:54:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	99	198615	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	217538	50.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	62153	54.9	
58 Benzene	78	4.845	4.842	0.003	14	4056	0.1854	a
* 61 Fluorobenzene (IS)	96	5.118	5.121	-0.003	99	939766	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	908916	47.8	
80 Toluene	92	6.864	6.857	0.007	1	1130	0.0792	a
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	726329	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	7
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	93	313343	42.5	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	377286	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

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

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

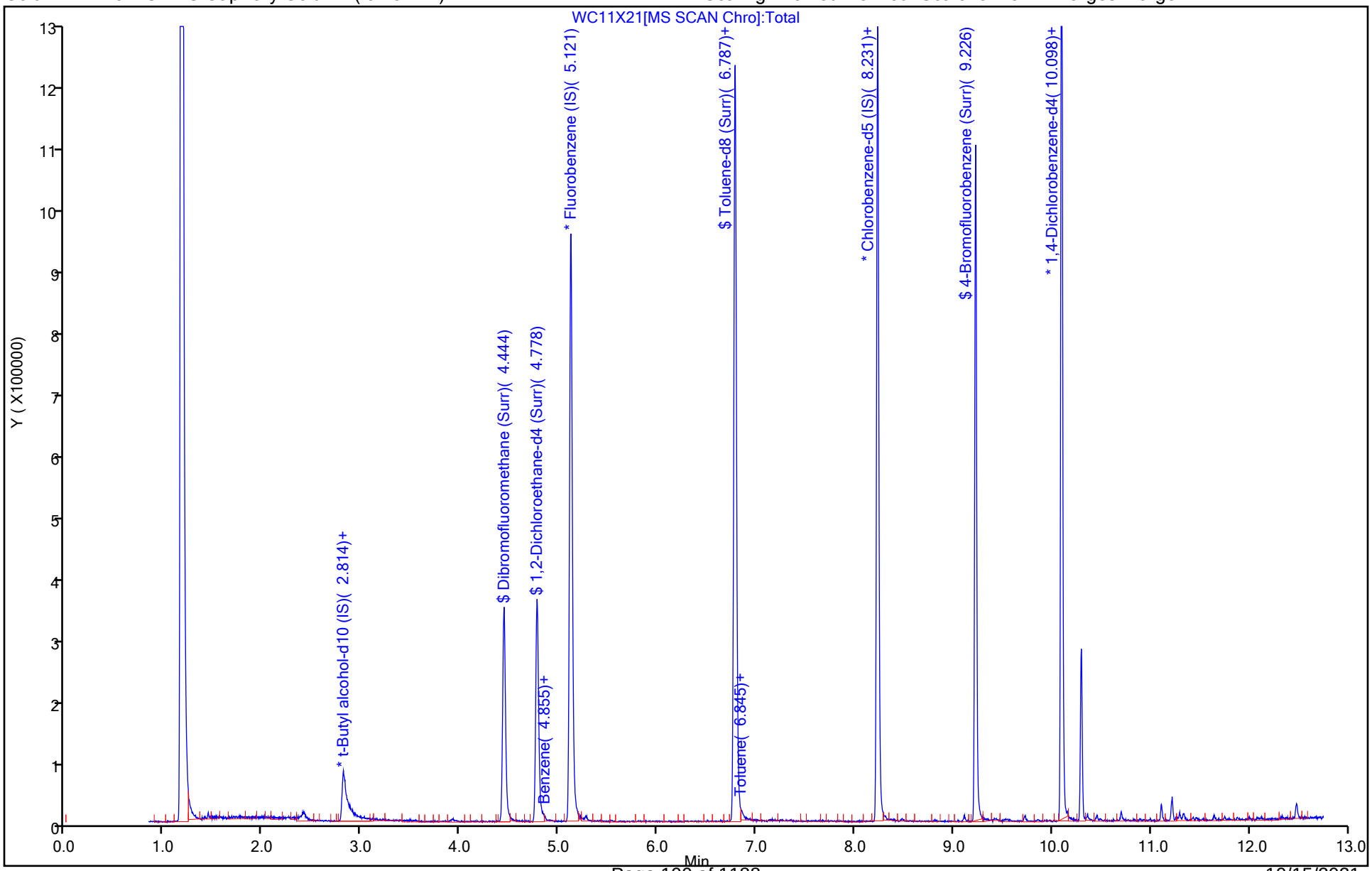
Report Date: 11-Oct-2021 16:55:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X21.D

Injection Date:	11-Oct-2021 16:25:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-13	Lab Sample ID:	410-57303-13	Worklist Smp#:	22
Client ID:	MW-11S-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_9137	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

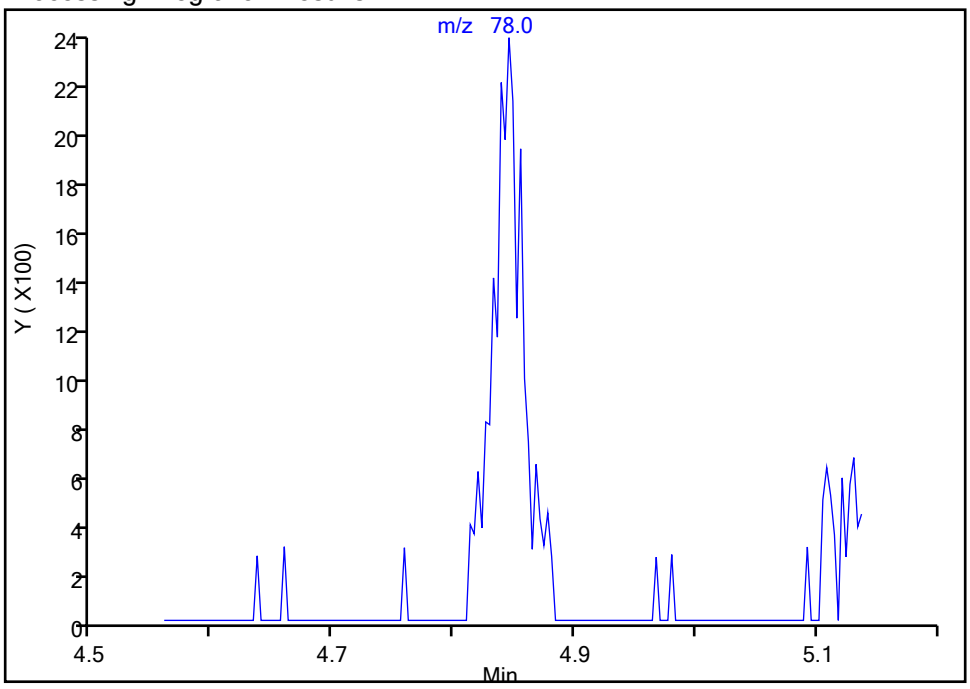
Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X21.D				
Injection Date:	11-Oct-2021 16:25:30	Instrument ID:	9137		
Lims ID:	410-57303-C-13	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	lcp00895	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

58 Benzene, CAS: 71-43-2

Signal: 1

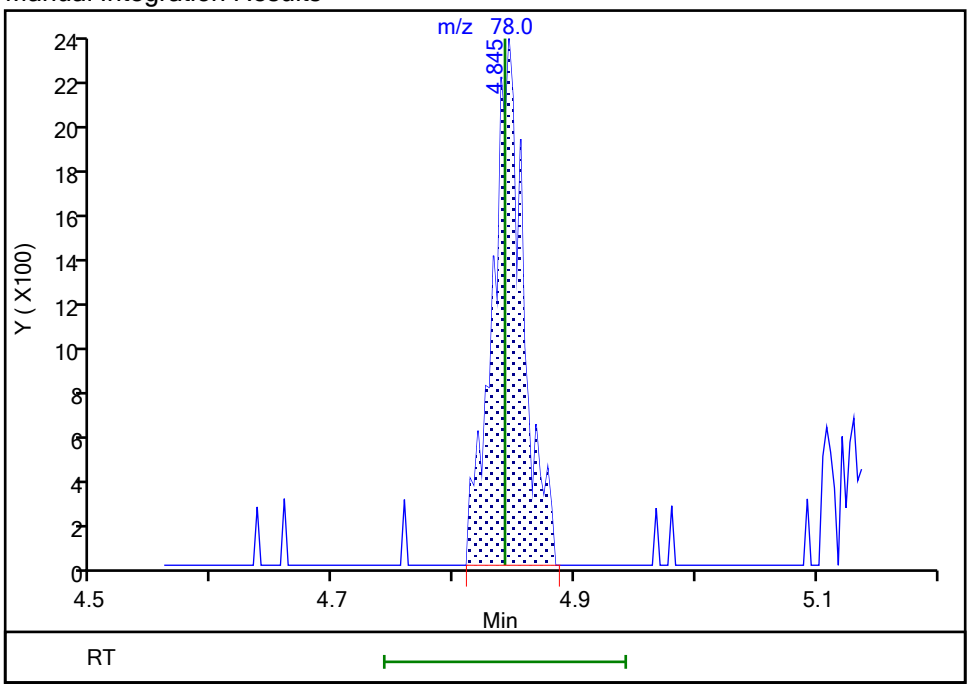
Not Detected
Expected RT: 4.84

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 4056
Amount: 0.185391
Amount Units: ug/l



Reviewer: beckerk, 11-Oct-2021 16:54:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

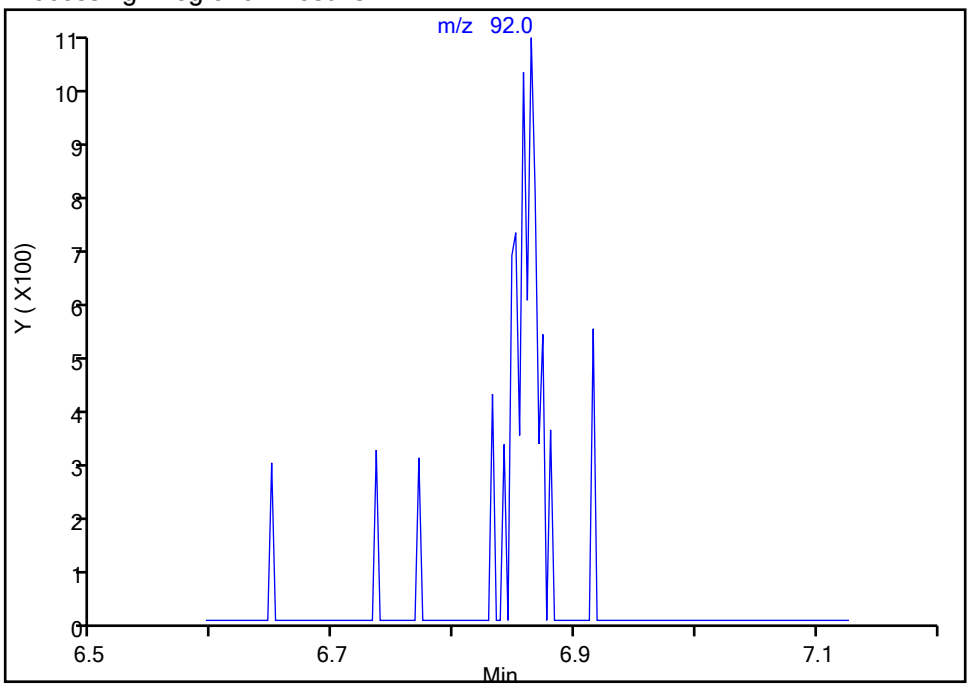
Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X21.D				
Injection Date:	11-Oct-2021 16:25:30	Instrument ID:	9137		
Lims ID:	410-57303-C-13	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	lcp00895	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

80 Toluene, CAS: 108-88-3

Signal: 1

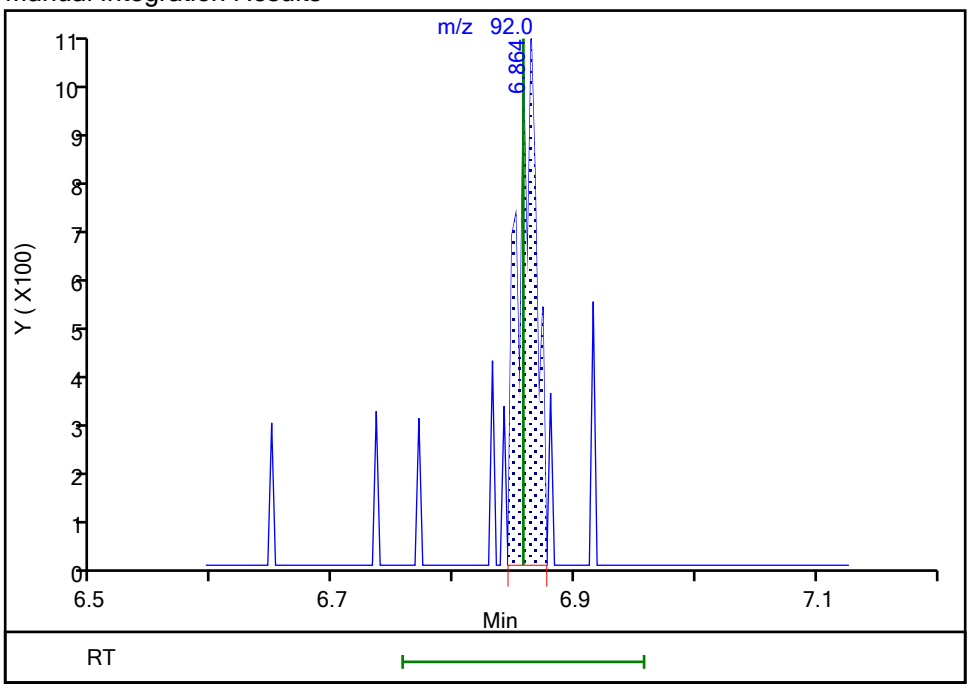
Not Detected
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86
Area: 1130
Amount: 0.079238
Amount Units: ug/l



Reviewer: beckerk, 11-Oct-2021 16:54:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-11D-20210929 Lab Sample ID: 410-57303-14

Matrix: Ground Water Lab File ID: WC11X22.D

Analysis Method: 8260C Date Collected: 09/29/2021 14:59

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 16:47

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.: 181168 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)	112		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X22.D
Lims ID: 410-57303-C-14
Client ID: MW-11D-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 16:47:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-023
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:03:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	100	197576	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	217634	51.1	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	63056	56.0	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	934058	50.0	
$ 79 Toluene-d8 (Surr)	98	6.784	6.787	-0.003	92	914824	48.0	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	727219	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	94	307691	41.7	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	374707	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

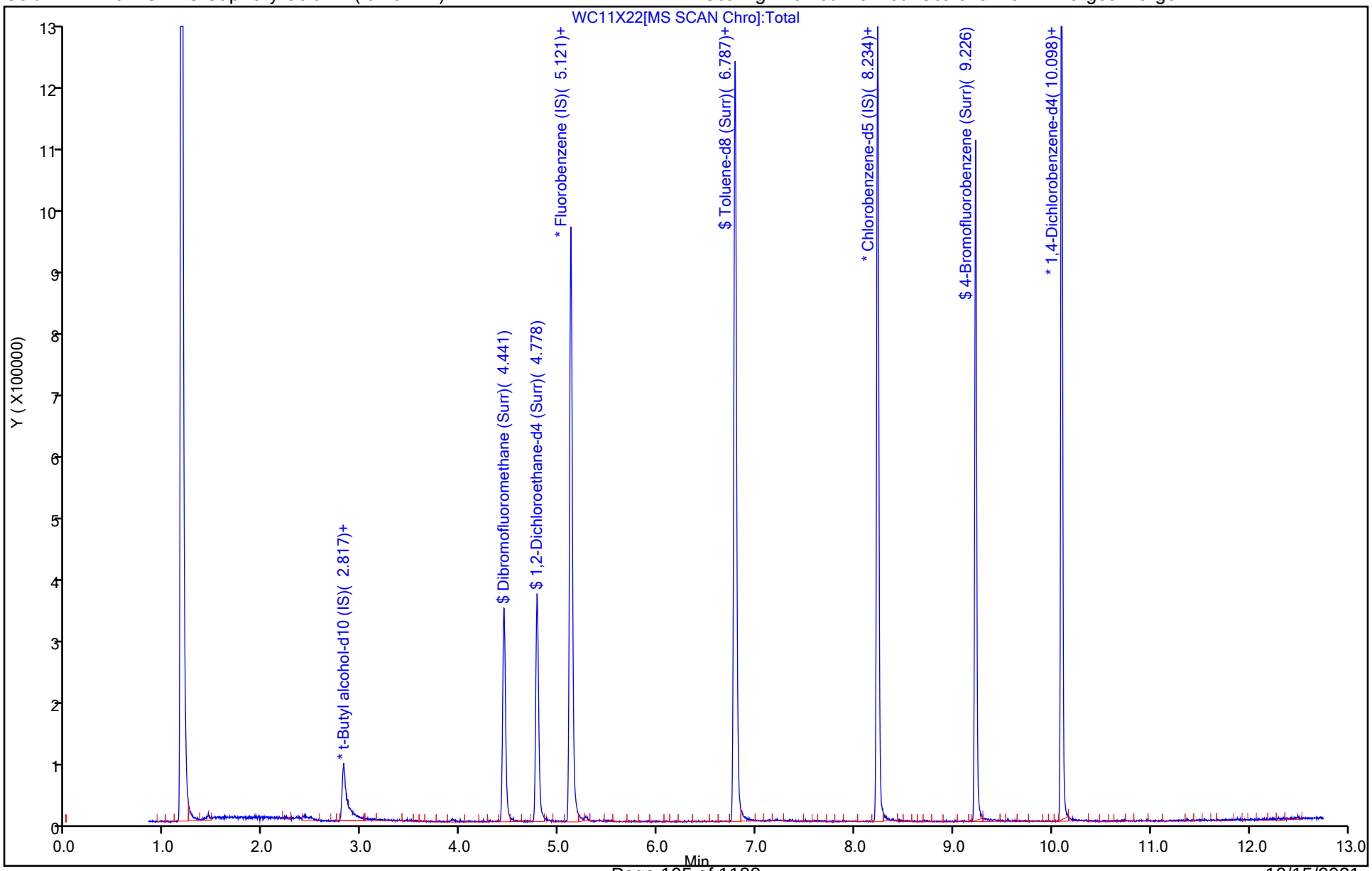
Report Date: 11-Oct-2021 20:04:58 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X22.D

Injection Date:	11-Oct-2021 16:47:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-14	Lab Sample ID:	410-57303-14	Worklist Smp#:	23
Client ID:	MW-11D-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-4S-20210929 Lab Sample ID: 410-57303-15

Matrix: Ground Water Lab File ID: WC11X23.D

Analysis Method: 8260C Date Collected: 09/29/2021 15:59

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 17:10

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.: 181168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.0		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)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X23.D
Lims ID: 410-57303-C-15
Client ID: MW-4S-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 17:10:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-024
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:04:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	207490	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	211970	50.7	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	60779	55.0	
58 Benzene	78	4.842	4.842	0.000	92	21772	1.02	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	917333	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	894267	47.5	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	718517	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	93	301157	41.3	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	380130	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

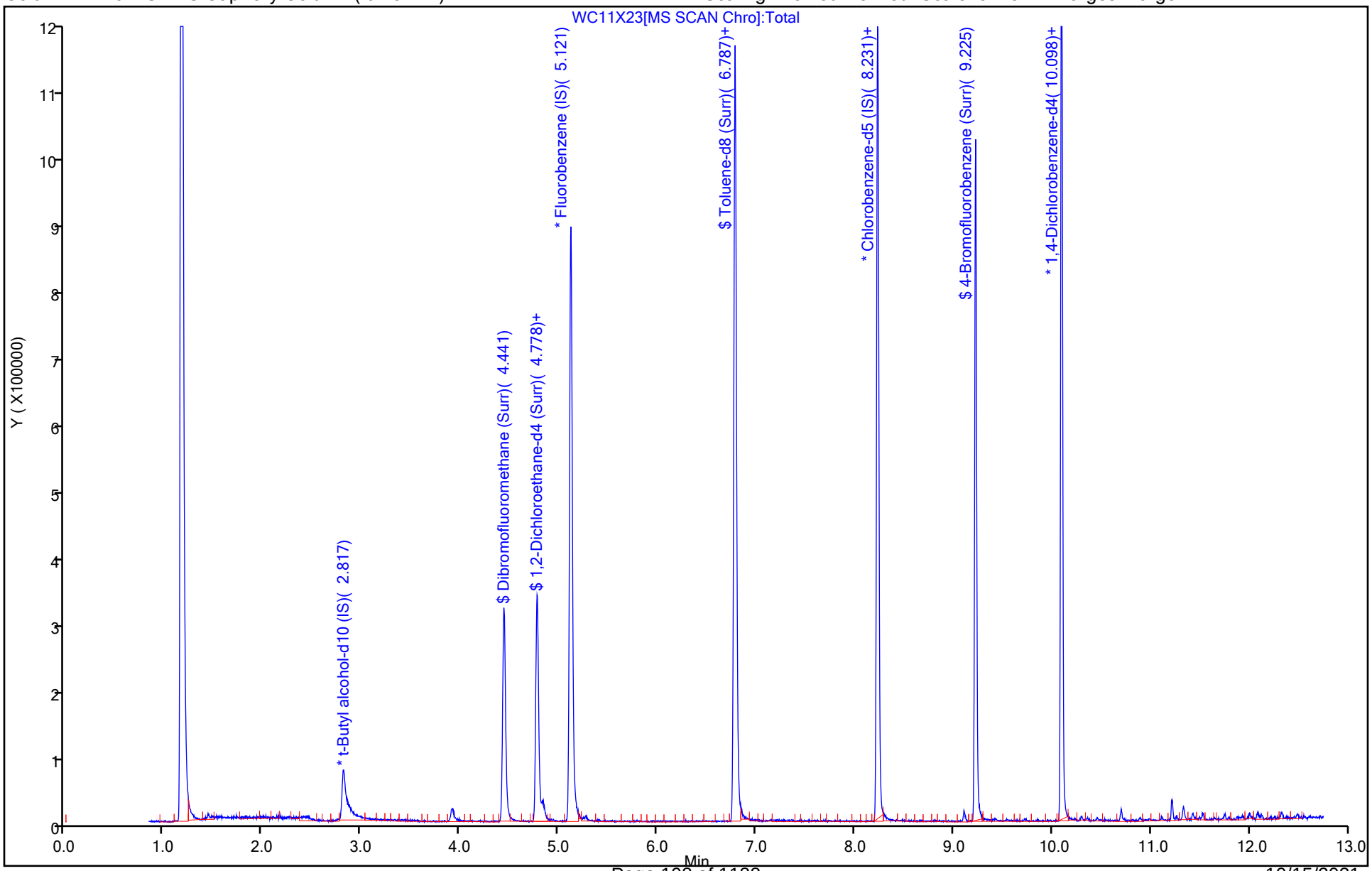
Report Date: 11-Oct-2021 20:04:59 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X23.D

Injection Date:	11-Oct-2021 17:10:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-15	Lab Sample ID:	410-57303-15	Worklist Smp#:	24
Client ID:	MW-4S-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_9137	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



Report Date: 11-Oct-2021 20:04:59 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X23.D

Injection Date: 11-Oct-2021 17:10:30 Instrument ID: 9137

Lims ID: 410-57303-C-15 Lab Sample ID: 410-57303-15

Client ID: MW-4S-20210929

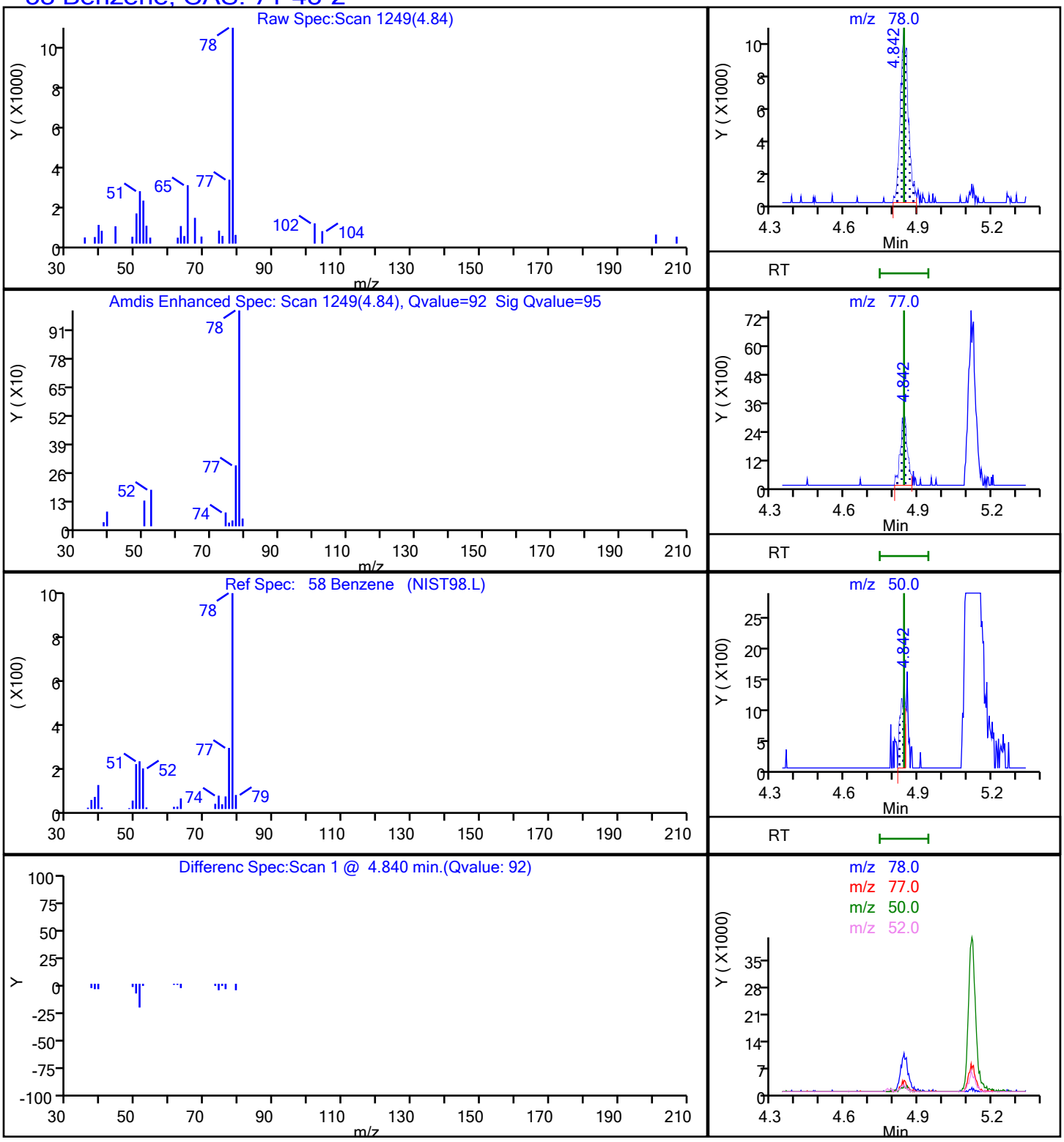
Operator ID: lcp00895 ALS Bottle#: 23 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

58 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-4D-20210929 Lab Sample ID: 410-57303-16

Matrix: Ground Water Lab File ID: WC11X24.D

Analysis Method: 8260C Date Collected: 09/29/2021 16:38

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 17:32

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.: 181168 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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X24.D
Lims ID: 410-57303-C-16
Client ID: MW-4D-20210929
Sample Type: Client
Inject. Date: 11-Oct-2021 17:32:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-025
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:04:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.820	2.808	0.012	99	191801	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	95	213138	50.0	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.781	4.775	0.006	78	60207	53.4	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	935797	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	889026	47.8	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	710870	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	94	304478	42.2	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	365753	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

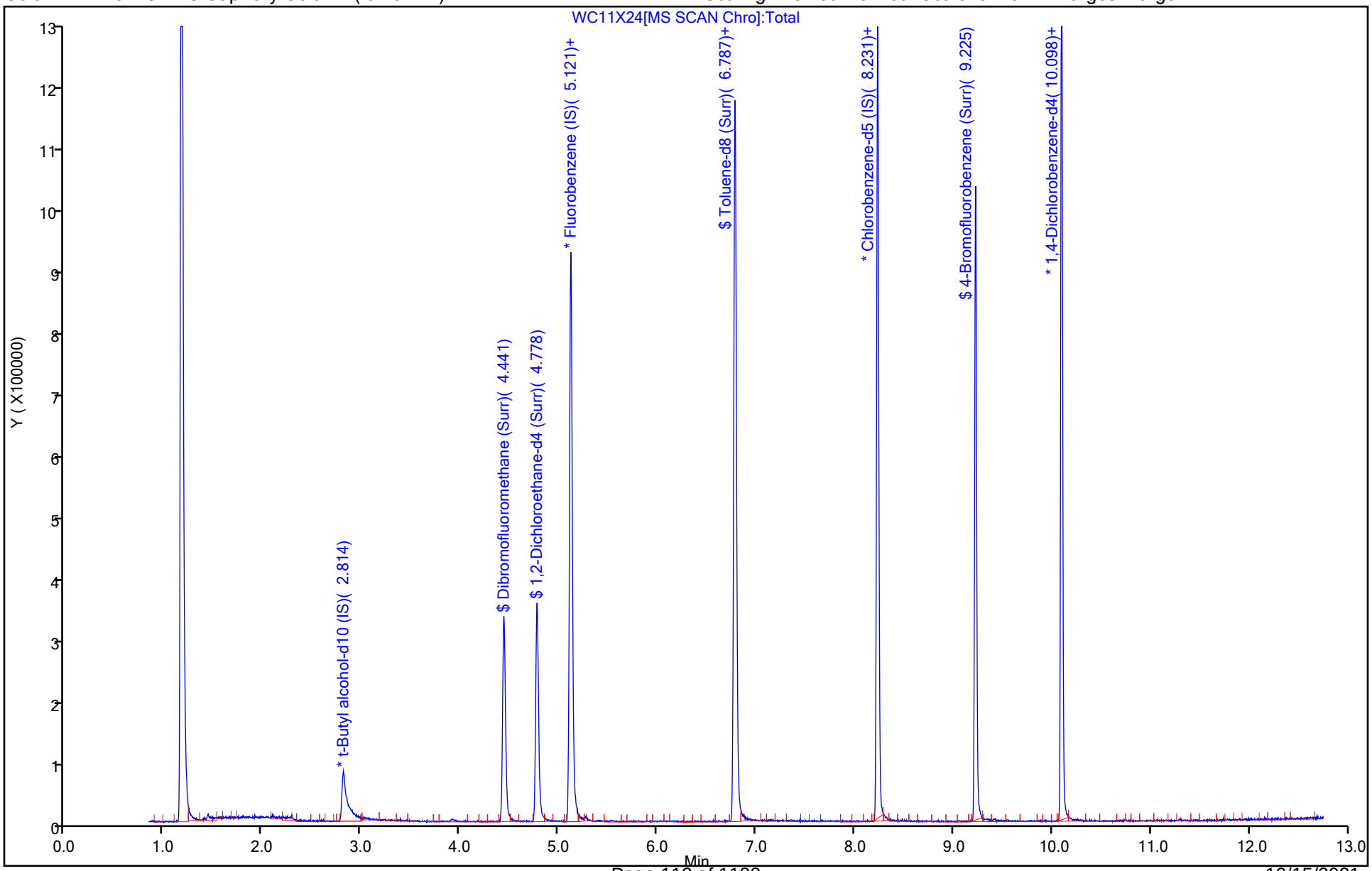
Report Date: 11-Oct-2021 20:05:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X24.D

Injection Date:	11-Oct-2021 17:32:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-16	Lab Sample ID:	410-57303-16	Worklist Smp#:	25
Client ID:	MW-4D-20210929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-3-20210930 Lab Sample ID: 410-57303-17

Matrix: Ground Water Lab File ID: WC11X25.D

Analysis Method: 8260C Date Collected: 09/30/2021 08:22

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 17:54

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.: 181168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.91	J	1.0	0.30
100-41-4	Ethylbenzene	2.9		1.0	0.40
108-88-3	Toluene	0.76	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)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D
Lims ID: 410-57303-C-17
Client ID: MW-3-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 17:54:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-026
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:04:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.811	2.808	0.003	99	199644	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	214121	50.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	61956	55.6	
58 Benzene	78	4.839	4.842	-0.003	92	19683	0.9149	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	924123	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	904175	47.8	
80 Toluene	92	6.860	6.857	0.003	97	10829	0.7632	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	722702	50.0	
98 Ethylbenzene	91	8.365	8.362	0.003	98	73972	2.86	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	98	19845	1.99	
100 o-Xylene	106	8.802	8.805	-0.003	96	20979	2.08	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	92	327168	44.6	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	402955	50.0	
S 135 Xylenes, Total	106				0		4.07	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

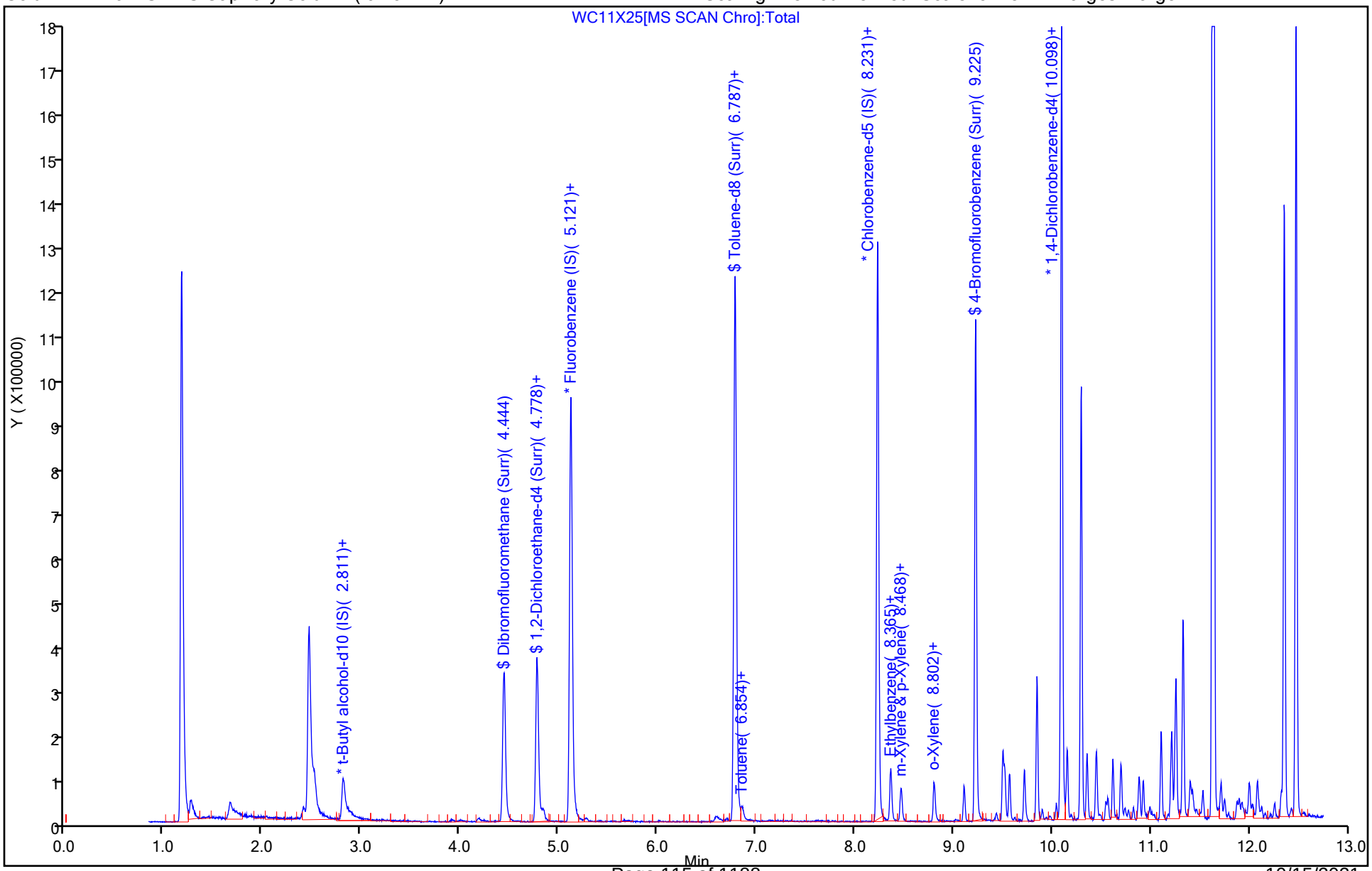
Report Date: 11-Oct-2021 20:05:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D

Injection Date:	11-Oct-2021 17:54:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-17	Lab Sample ID:	410-57303-17	Worklist Smp#:	26
Client ID:	MW-3-20210930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSVoa_9137	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

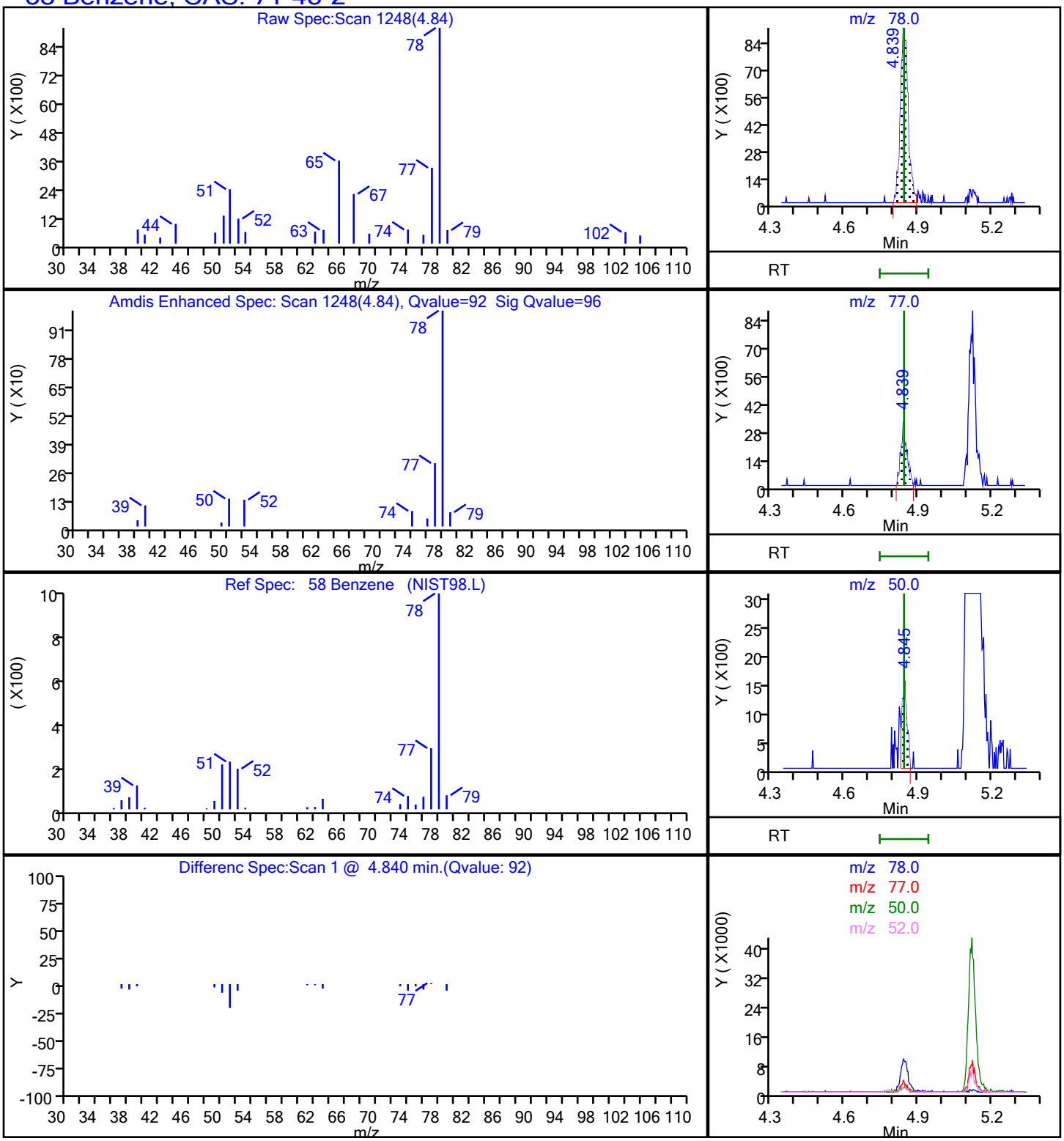


Report Date: 11-Oct-2021 20:05:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D				
Injection Date:	11-Oct-2021 17:54:30	Instrument ID:	9137		
Lims ID:	410-57303-C-17	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	lcp00895	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

58 Benzene, CAS: 71-43-2



Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D

Injection Date: 11-Oct-2021 17:54:30 Instrument ID: 9137

Lims ID: 410-57303-C-17 Lab Sample ID: 410-57303-17

Client ID: MW-3-20210930

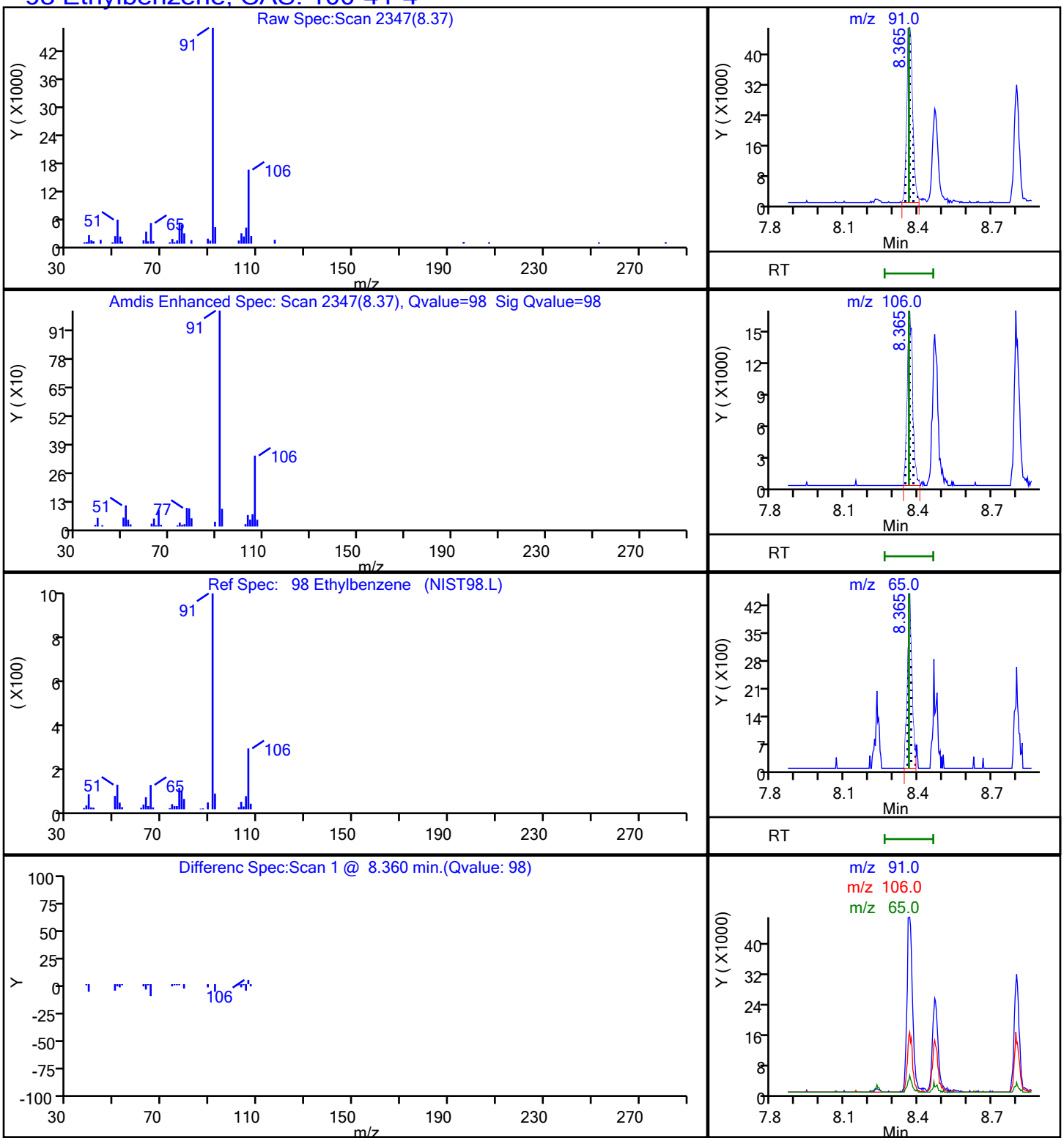
Operator ID: lcp00895 ALS Bottle#: 25 Worklist Smp#: 26

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

98 Ethylbenzene, CAS: 100-41-4

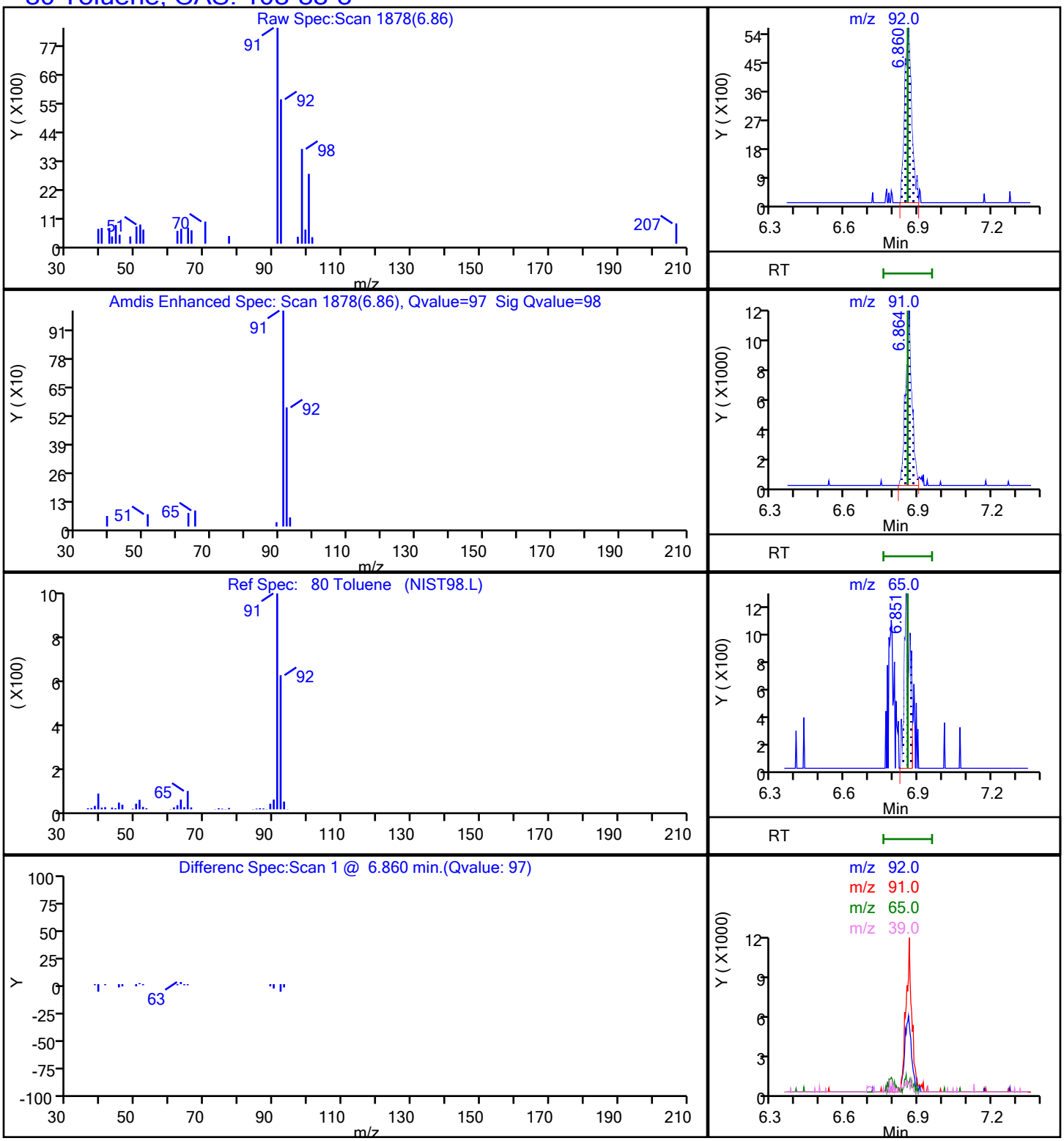


Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D				
Injection Date:	11-Oct-2021 17:54:30	Instrument ID:	9137		
Lims ID:	410-57303-C-17	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	lcp00895	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

80 Toluene, CAS: 108-88-3

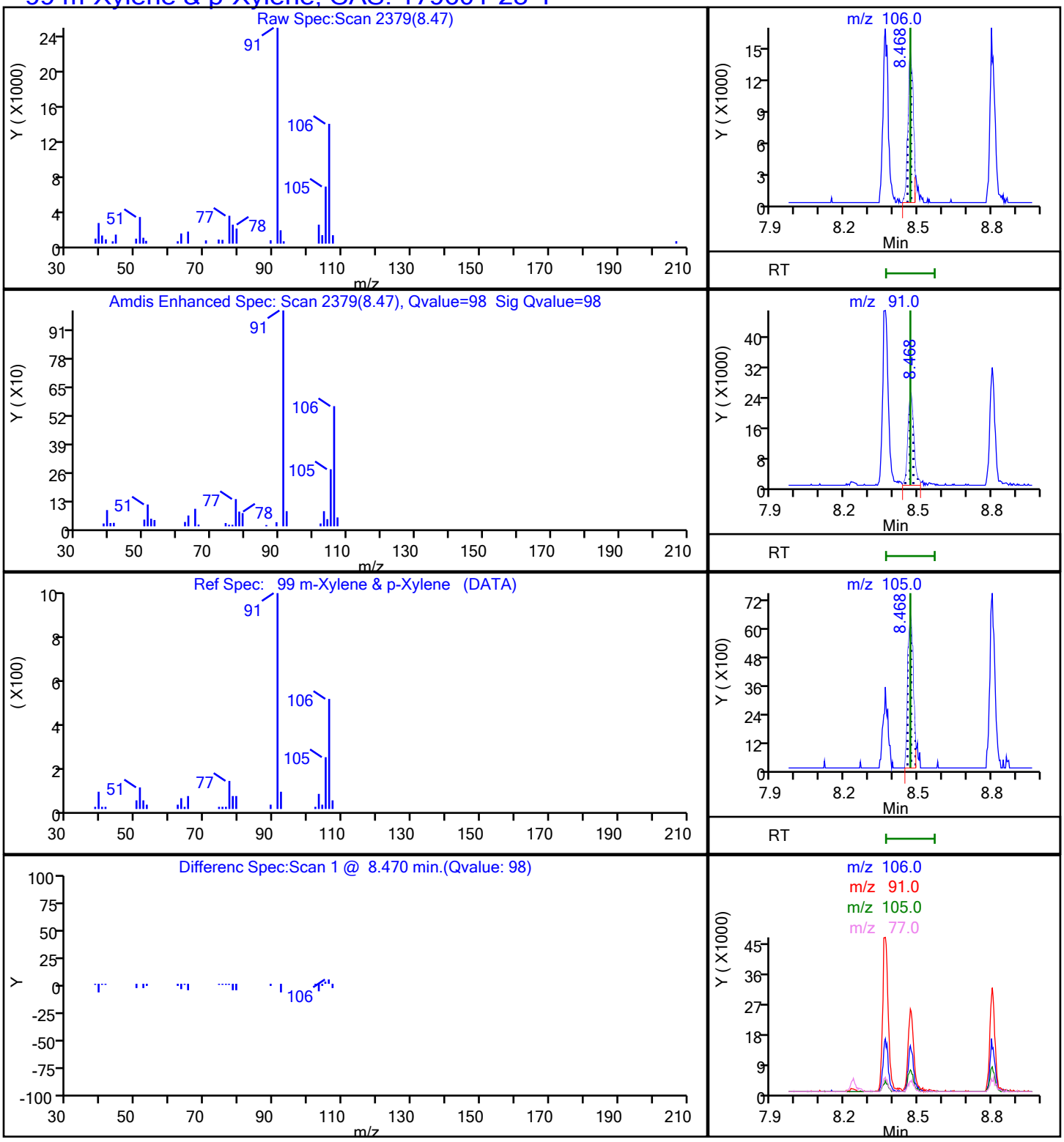


Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D				
Injection Date:	11-Oct-2021 17:54:30	Instrument ID:	9137		
Lims ID:	410-57303-C-17	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	lcp00895	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

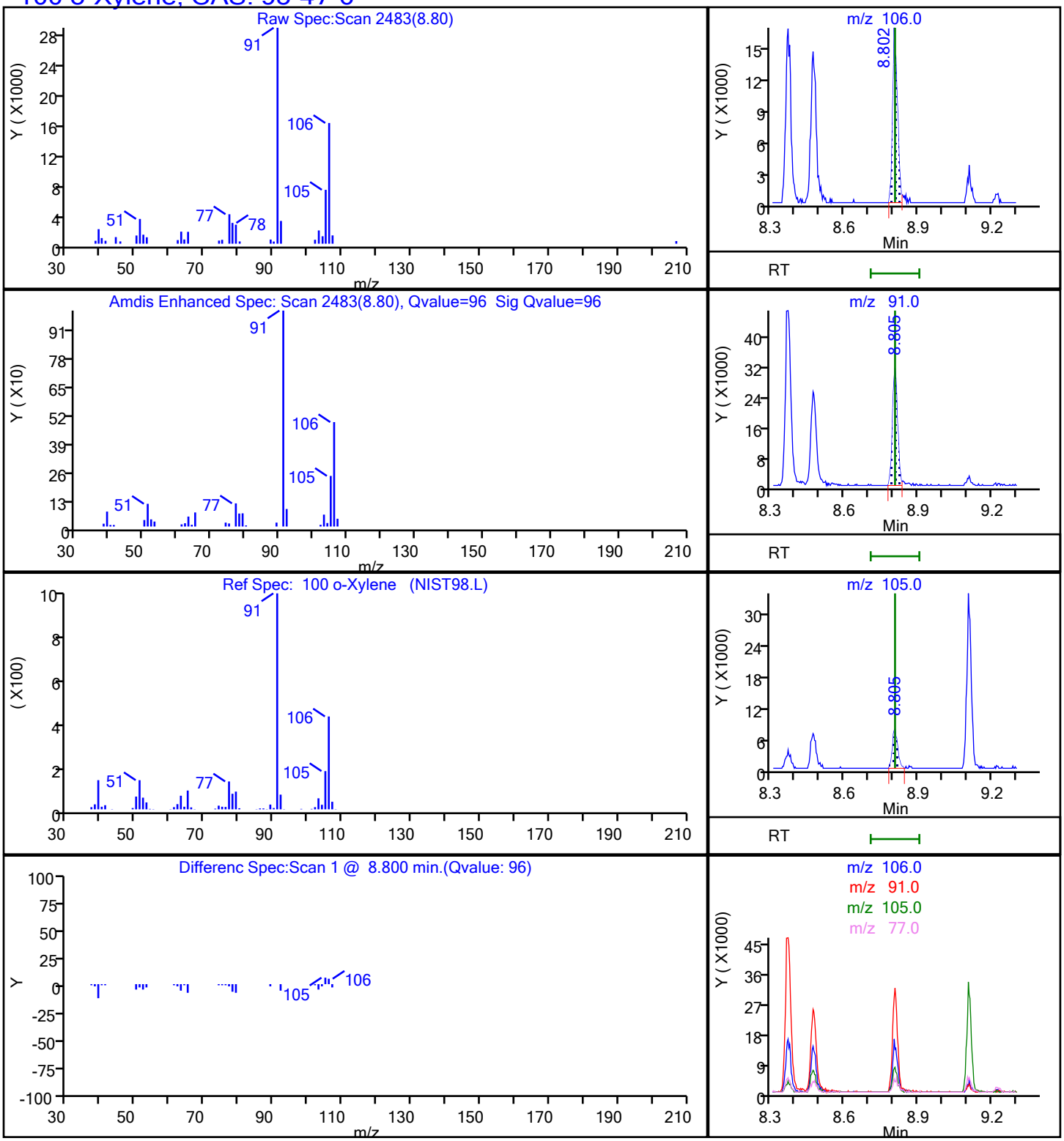


Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X25.D				
Injection Date:	11-Oct-2021 17:54:30	Instrument ID:	9137		
Lims ID:	410-57303-C-17	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	lcp00895	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-13S-20210930 Lab Sample ID: 410-57303-18

Matrix: Ground Water Lab File ID: WC11X26.D

Analysis Method: 8260C Date Collected: 09/30/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 18:17

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.: 181168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.5		1.0	0.30
100-41-4	Ethylbenzene	1.2		1.0	0.40
108-88-3	Toluene	0.56	J	1.0	0.20
1330-20-7	Xylenes, Total	0.67	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)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D
Lims ID: 410-57303-C-18
Client ID: MW-13S-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 18:17:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-027
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:04:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	177994	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	215421	50.0	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	58039	51.0	
58 Benzene	78	4.845	4.842	0.003	96	33302	1.51	a
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	945089	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	902709	47.8	
80 Toluene	92	6.860	6.857	0.003	98	7956	0.5615	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	721631	50.0	
98 Ethylbenzene	91	8.365	8.362	0.003	97	29721	1.15	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	99	10032	1.01	
100 o-Xylene	106	8.808	8.805	0.003	96	6761	0.6729	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	93	314327	42.9	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	392015	50.0	
S 135 Xylenes, Total	106				0		1.68	

QC Flag Legend

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

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

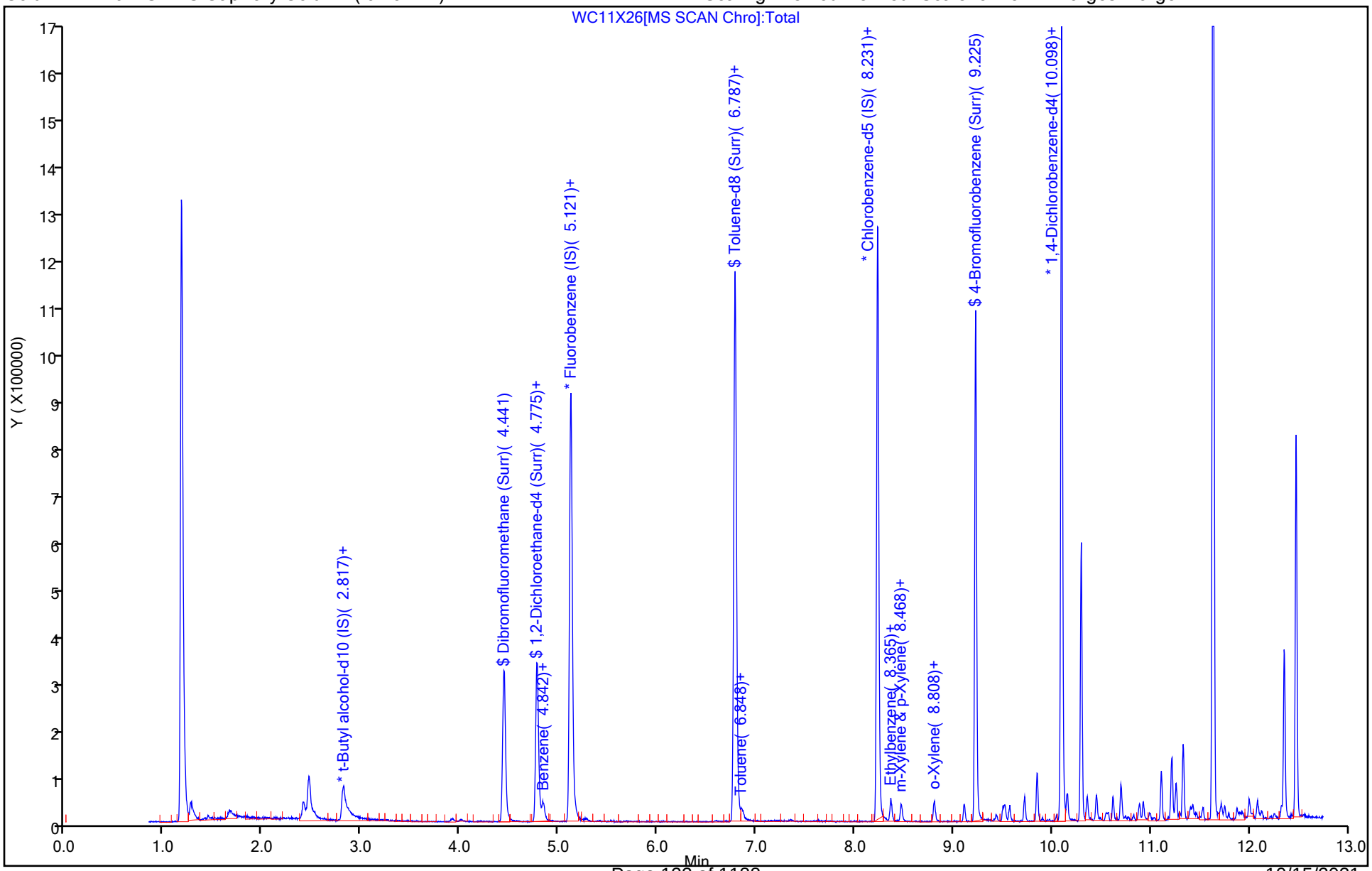
Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D

Injection Date:	11-Oct-2021 18:17:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-18	Lab Sample ID:	410-57303-18	Worklist Smp#:	27
Client ID:	MW-13S-20210930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSVoa_9137	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



Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D

Injection Date: 11-Oct-2021 18:17:30 Instrument ID: 9137

Lims ID: 410-57303-C-18 Lab Sample ID: 410-57303-18

Client ID: MW-13S-20210930

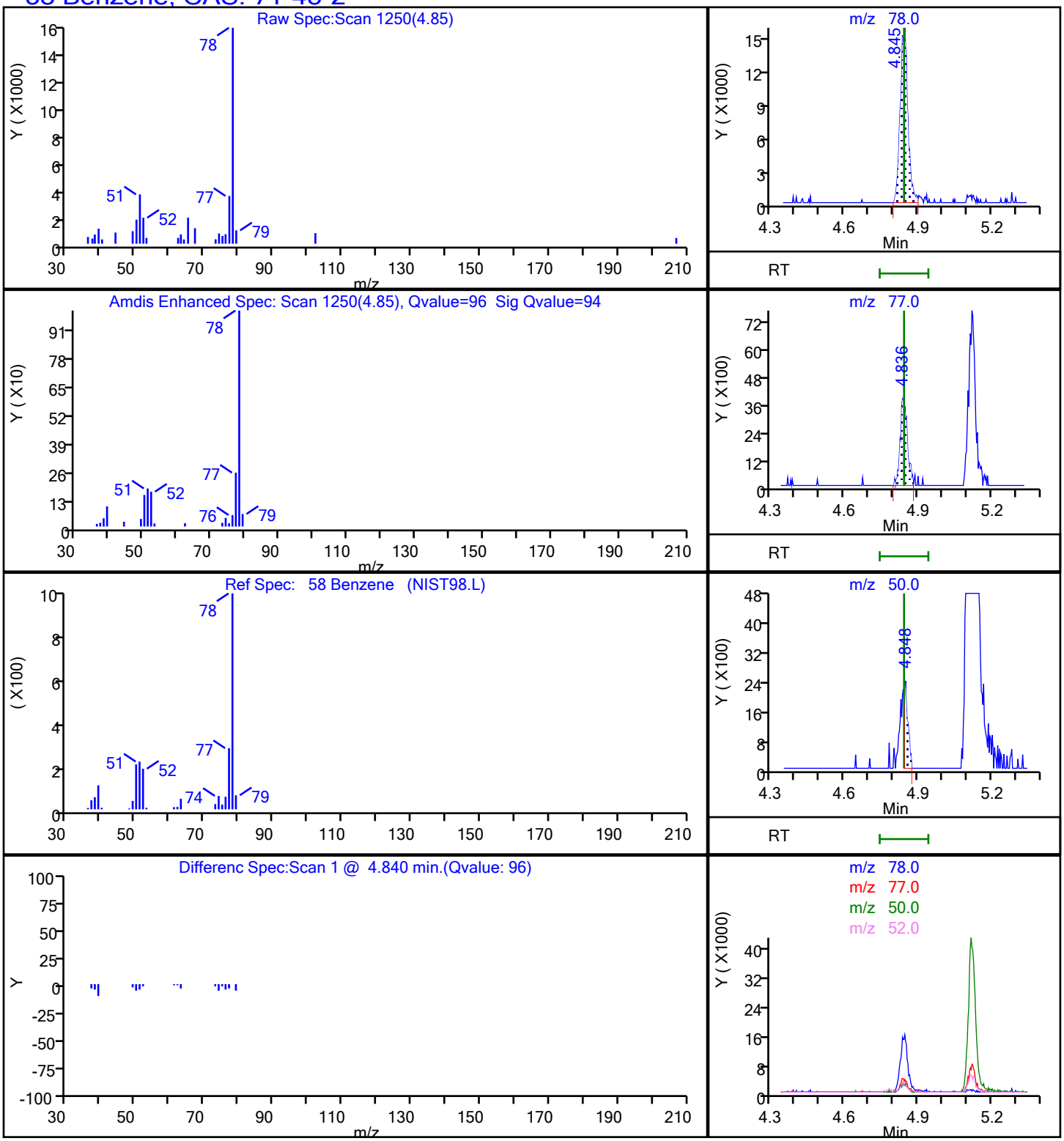
Operator ID: lcp00895 ALS Bottle#: 26 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

58 Benzene, CAS: 71-43-2



Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D

Injection Date: 11-Oct-2021 18:17:30 Instrument ID: 9137

Lims ID: 410-57303-C-18 Lab Sample ID: 410-57303-18

Client ID: MW-13S-20210930

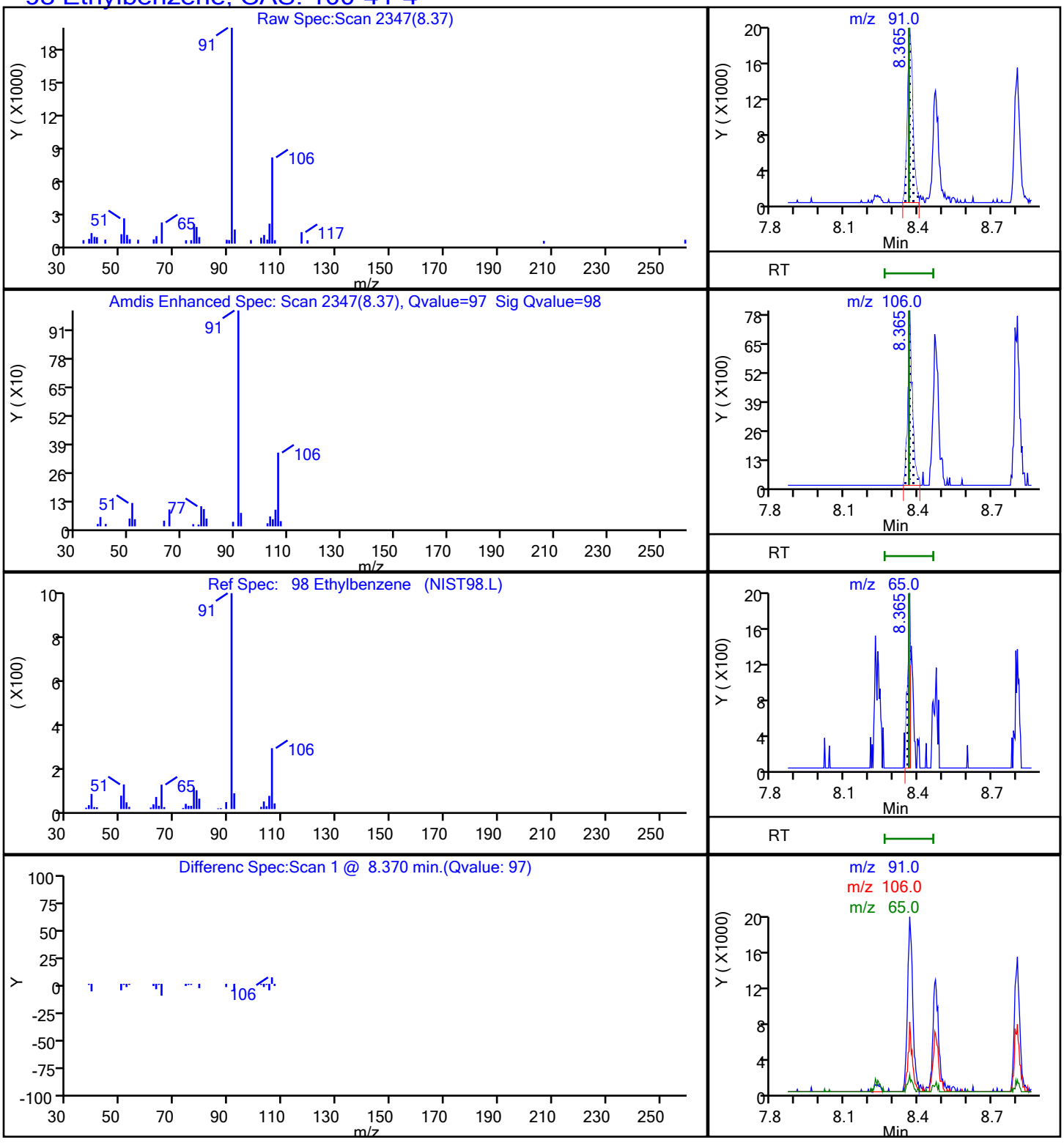
Operator ID: lcp00895 ALS Bottle#: 26 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

98 Ethylbenzene, CAS: 100-41-4



Report Date: 11-Oct-2021 20:05:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D

Injection Date: 11-Oct-2021 18:17:30 Instrument ID: 9137

Lims ID: 410-57303-C-18 Lab Sample ID: 410-57303-18

Client ID: MW-13S-20210930

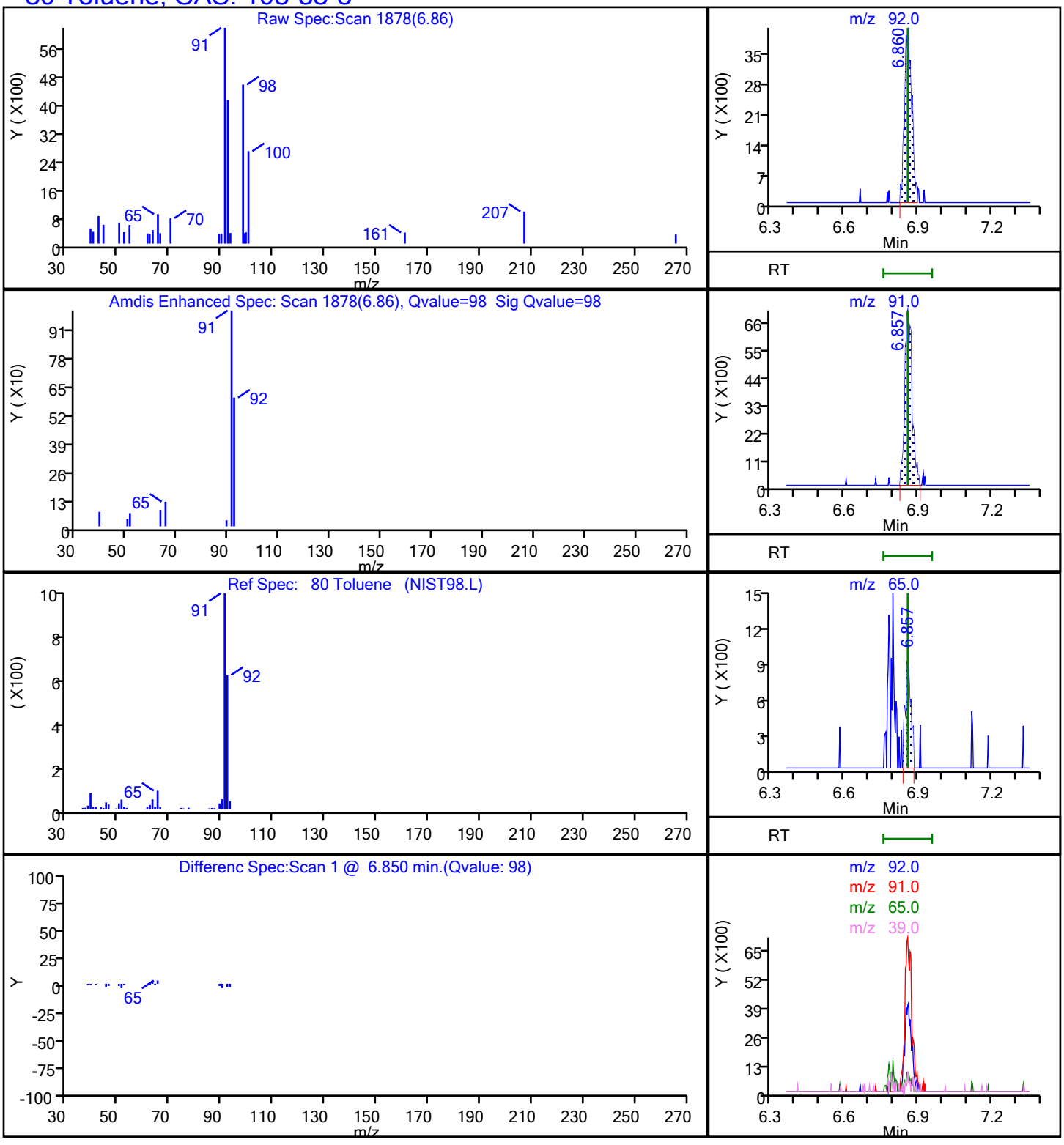
Operator ID: lcp00895 ALS Bottle#: 26 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

80 Toluene, CAS: 108-88-3



Report Date: 11-Oct-2021 20:05:02 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D

Injection Date: 11-Oct-2021 18:17:30 Instrument ID: 9137

Lims ID: 410-57303-C-18 Lab Sample ID: 410-57303-18

Client ID: MW-13S-20210930

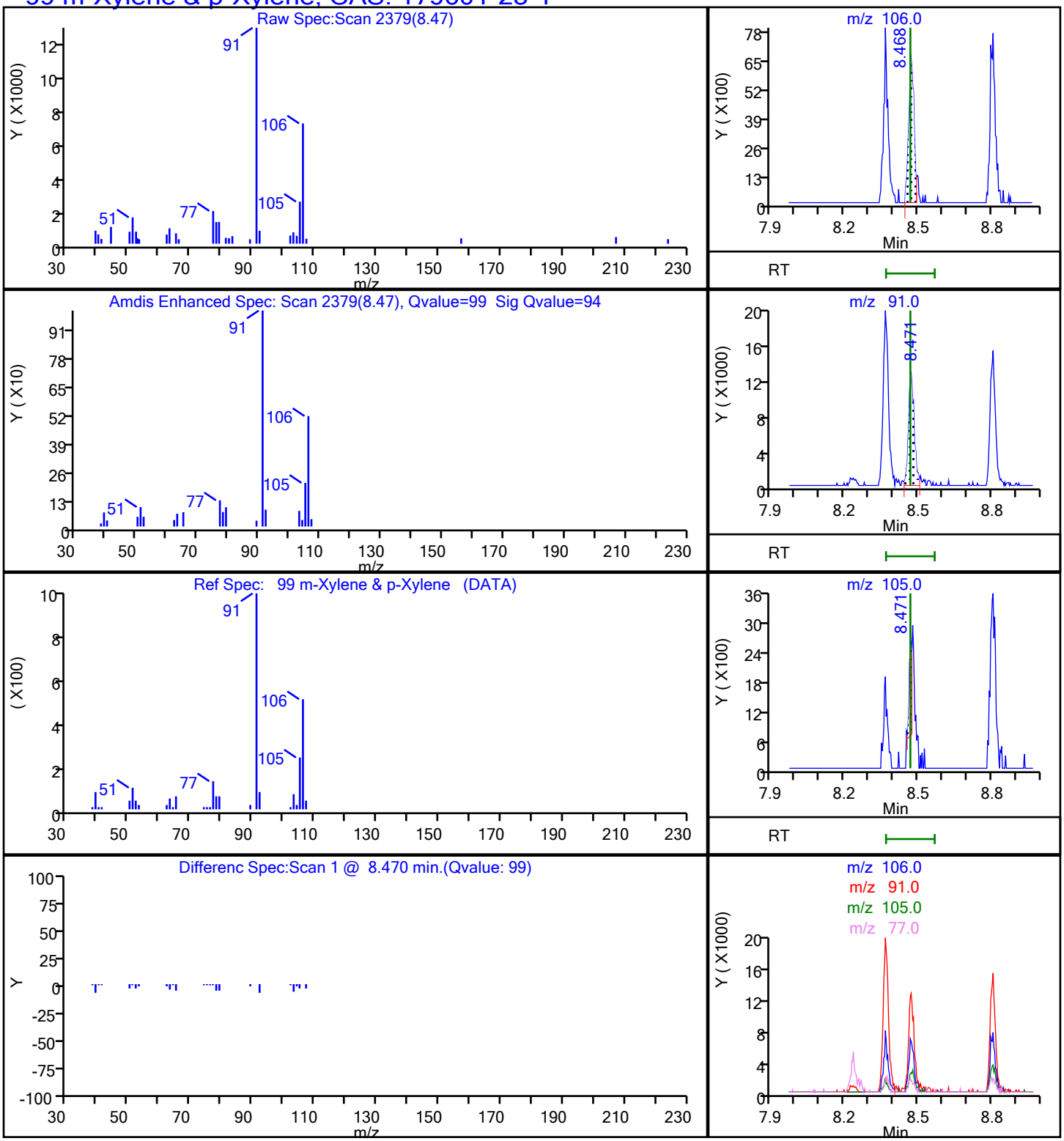
Operator ID: lcp00895 ALS Bottle#: 26 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

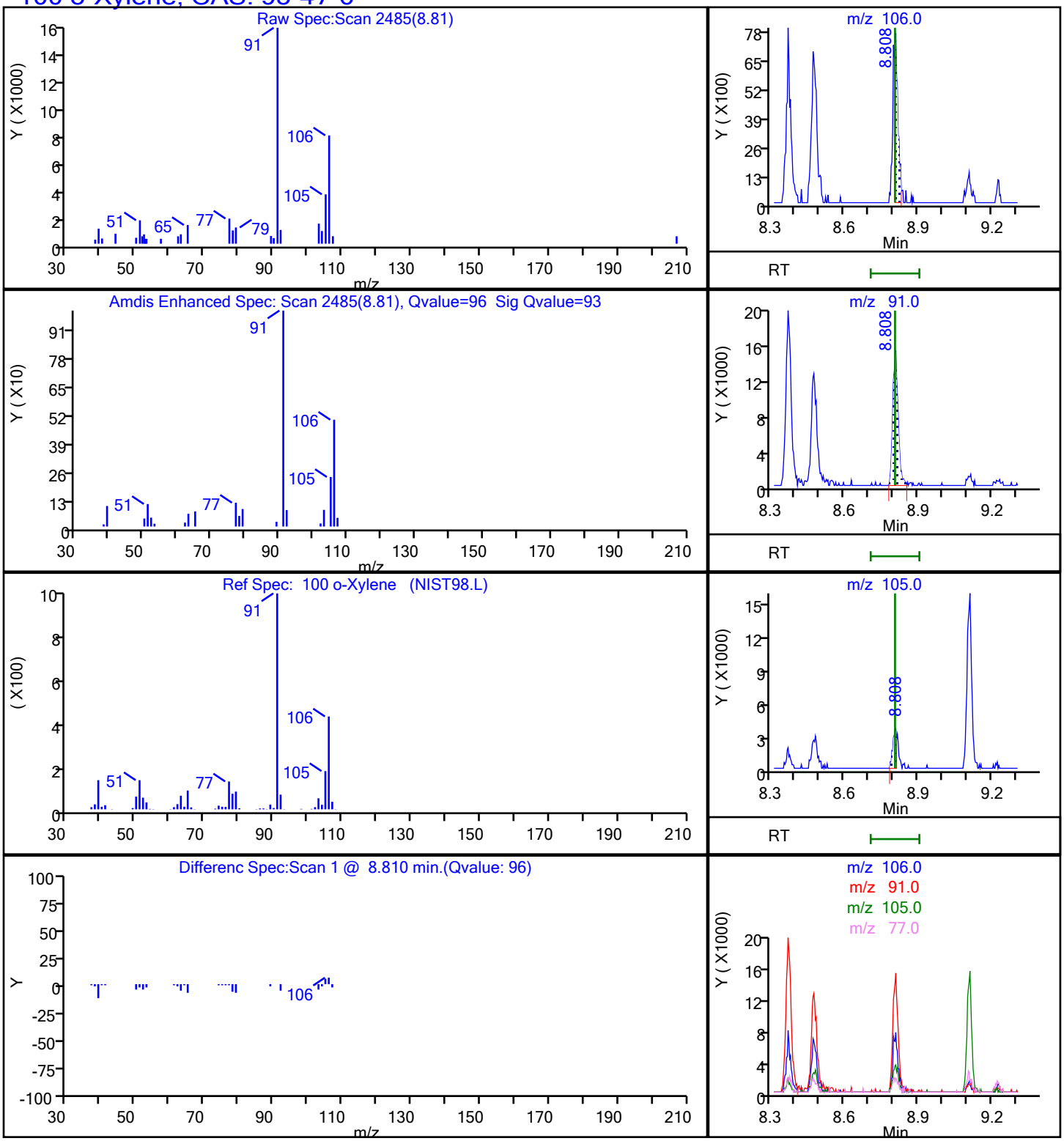
99 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D				
Injection Date:	11-Oct-2021 18:17:30	Instrument ID:	9137		
Lims ID:	410-57303-C-18	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	lcp00895	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

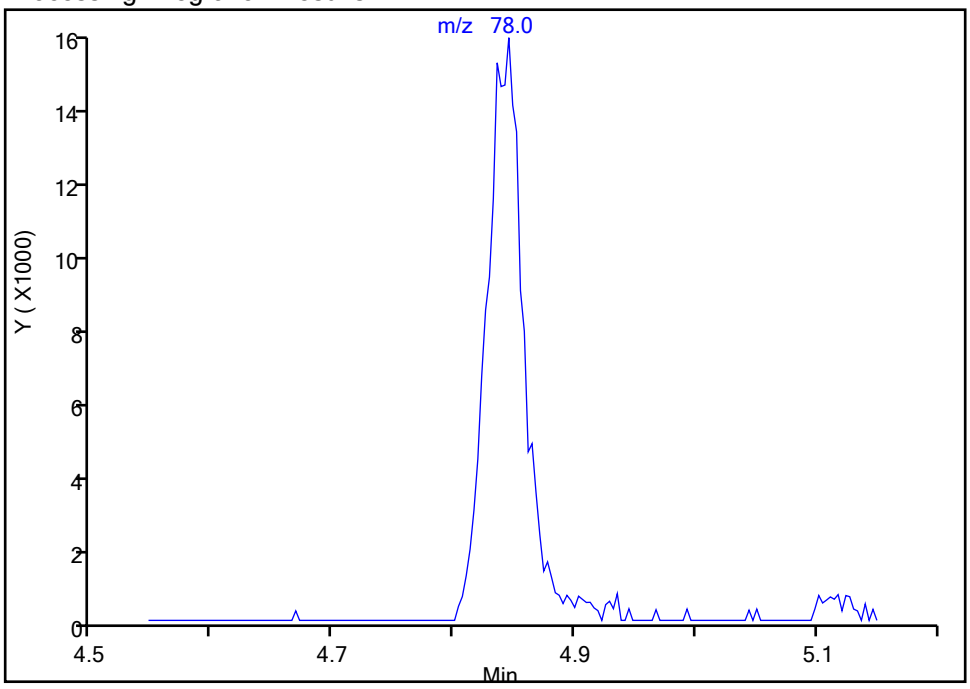
Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X26.D				
Injection Date:	11-Oct-2021 18:17:30	Instrument ID:	9137		
Lims ID:	410-57303-C-18	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	lcp00895	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 Benzene, CAS: 71-43-2

Signal: 1

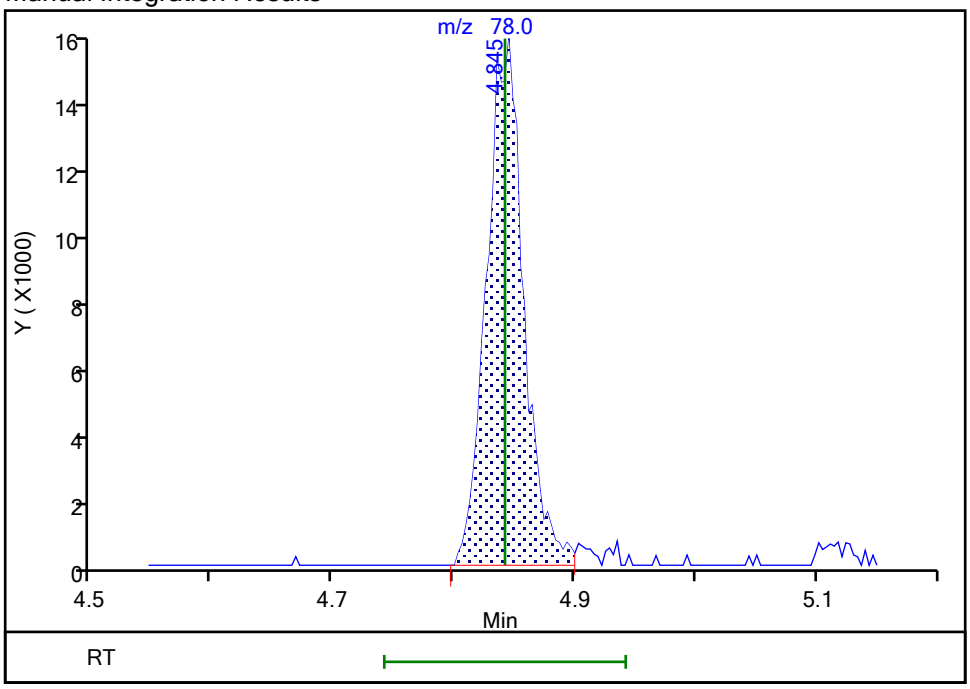
Not Detected
Expected RT: 4.84

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 33302
Amount: 1.513588
Amount Units: ug/l



Reviewer: beckerk, 11-Oct-2021 20:04:23
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-13D-20210930 Lab Sample ID: 410-57303-19

Matrix: Ground Water Lab File ID: WC11X27.D

Analysis Method: 8260C Date Collected: 09/30/2021 09:55

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 18:39

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.: 181168 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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X27.D
Lims ID: 410-57303-C-19
Client ID: MW-13D-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 18:39:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-028
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:04:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.811	2.808	0.003	100	196402	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	216319	51.5	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	59290	53.4	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	921438	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	906974	48.2	
80 Toluene	92		6.857				ND	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	718337	50.0	
98 Ethylbenzene	91		8.362				ND	
99 m-Xylene & p-Xylene	106		8.468				ND	7
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	94	303233	41.6	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	383585	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

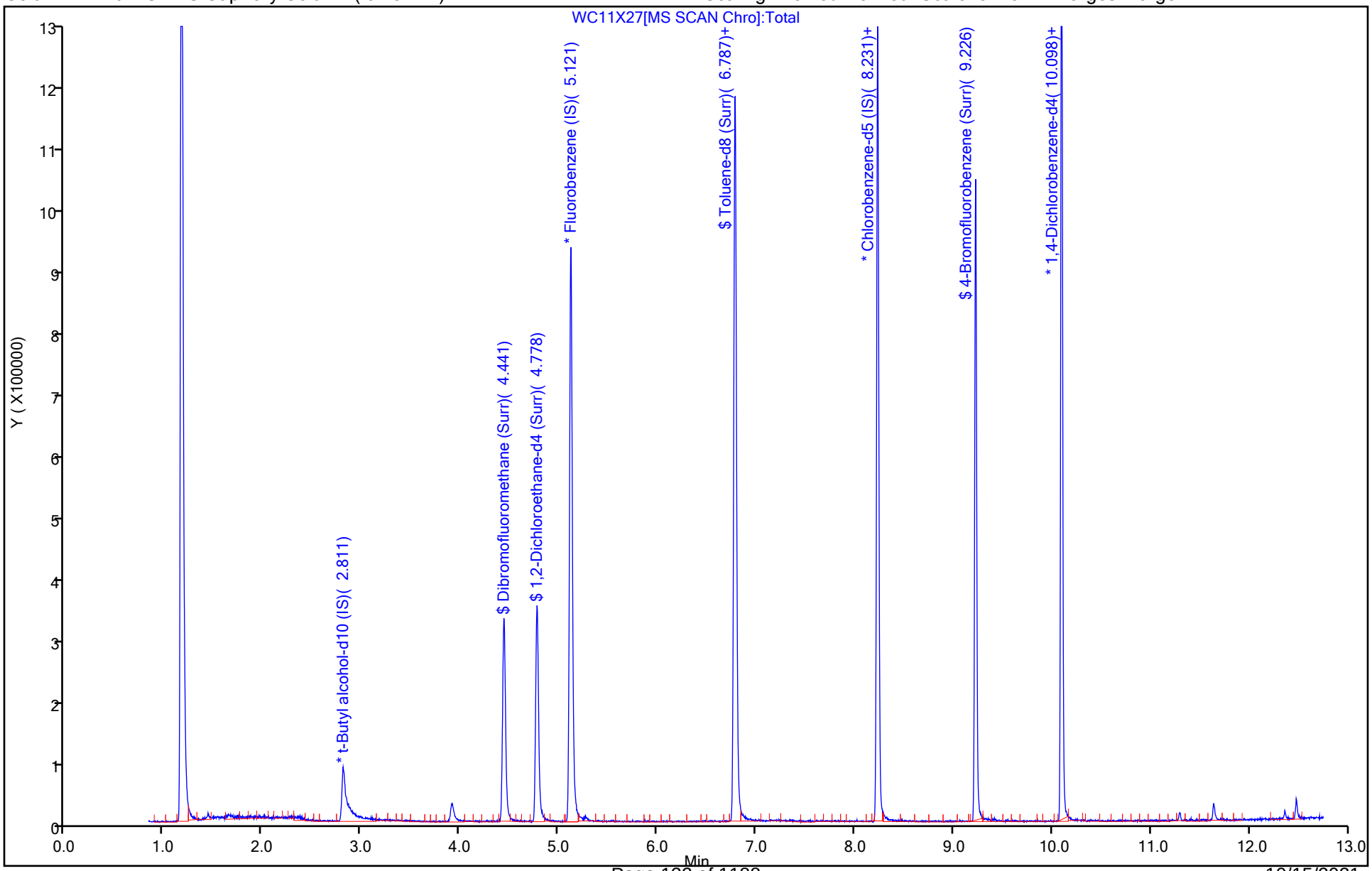
Report Date: 11-Oct-2021 20:05:02 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X27.D

Injection Date:	11-Oct-2021 18:39:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-19	Lab Sample ID:	410-57303-19	Worklist Smp#:	28
Client ID:	MW-13D-20210930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSVoa_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: DUP-20210930 Lab Sample ID: 410-57303-20

Matrix: Ground Water Lab File ID: WC11X28.D

Analysis Method: 8260C Date Collected: 09/30/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 19:01

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.: 181168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.98	J	1.0	0.30
100-41-4	Ethylbenzene	2.9		1.0	0.40
108-88-3	Toluene	0.77	J	1.0	0.20
1330-20-7	Xylenes, Total	4.4		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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D
Lims ID: 410-57303-C-20
Client ID: DUP-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 19:01:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-029
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 20:04:51 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 20:04:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.808	2.808	0.000	99	166173	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	7
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	211950	49.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	59527	52.9	
58 Benzene	78	4.839	4.842	-0.003	92	21298	0.9808	a
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	932778	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	902161	47.9	
80 Toluene	92	6.857	6.857	0.000	92	10863	0.7692	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	84	719318	50.0	
98 Ethylbenzene	91	8.369	8.362	0.007	98	74881	2.91	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	98	21592	2.17	
100 o-Xylene	106	8.805	8.805	0.000	95	22047	2.20	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	94	315220	43.2	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	400914	50.0	
S 135 Xylenes, Total	106				0		4.38	

QC Flag Legend

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

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

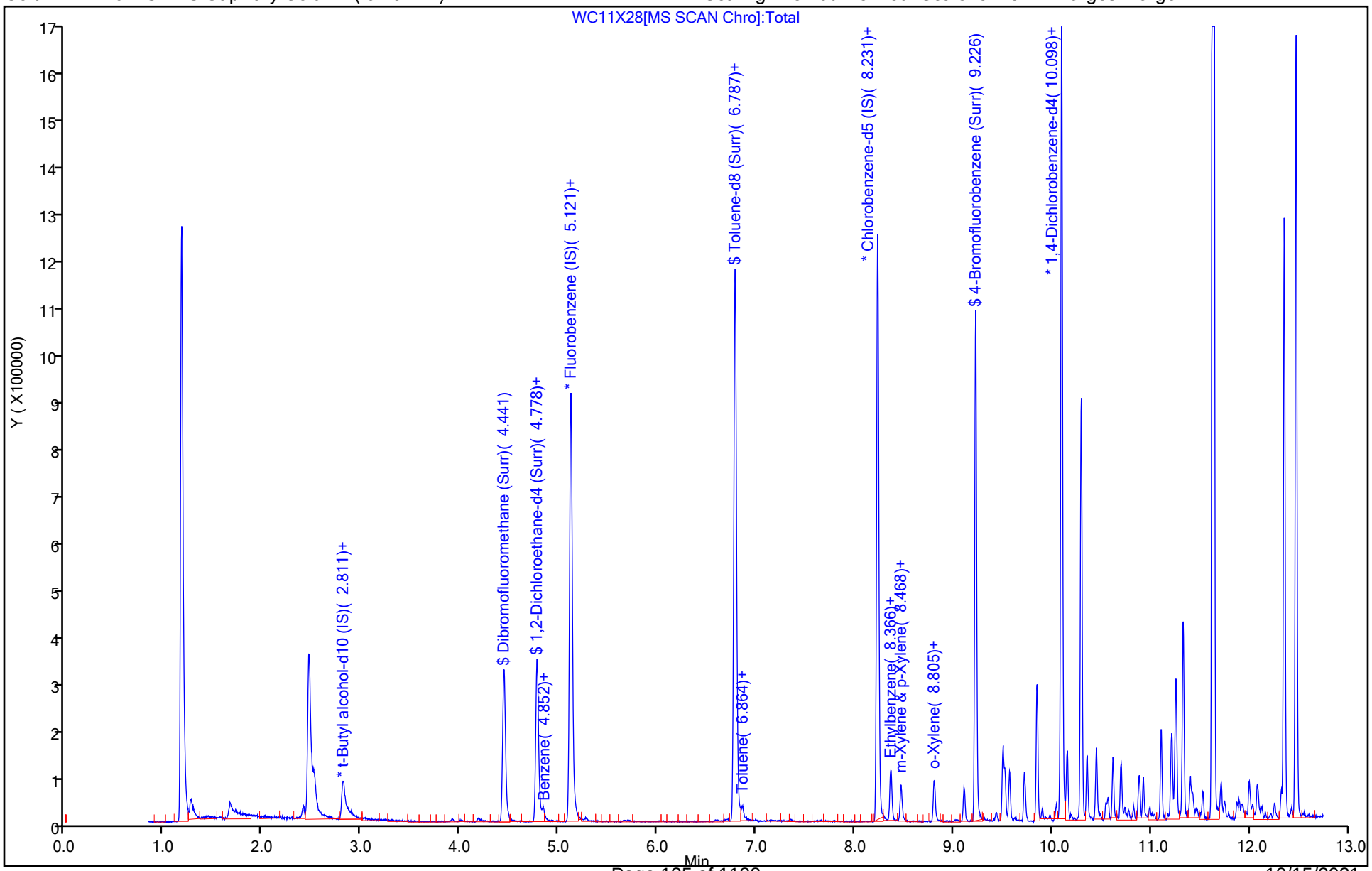
Report Date: 11-Oct-2021 20:05:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D

Injection Date:	11-Oct-2021 19:01:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-C-20	Lab Sample ID:	410-57303-20	Worklist Smp#:	29
Client ID:	DUP-20210930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSVoa_9137	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



Report Date: 11-Oct-2021 20:05:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D

Injection Date: 11-Oct-2021 19:01:30 Instrument ID: 9137

Lims ID: 410-57303-C-20 Lab Sample ID: 410-57303-20

Client ID: DUP-20210930

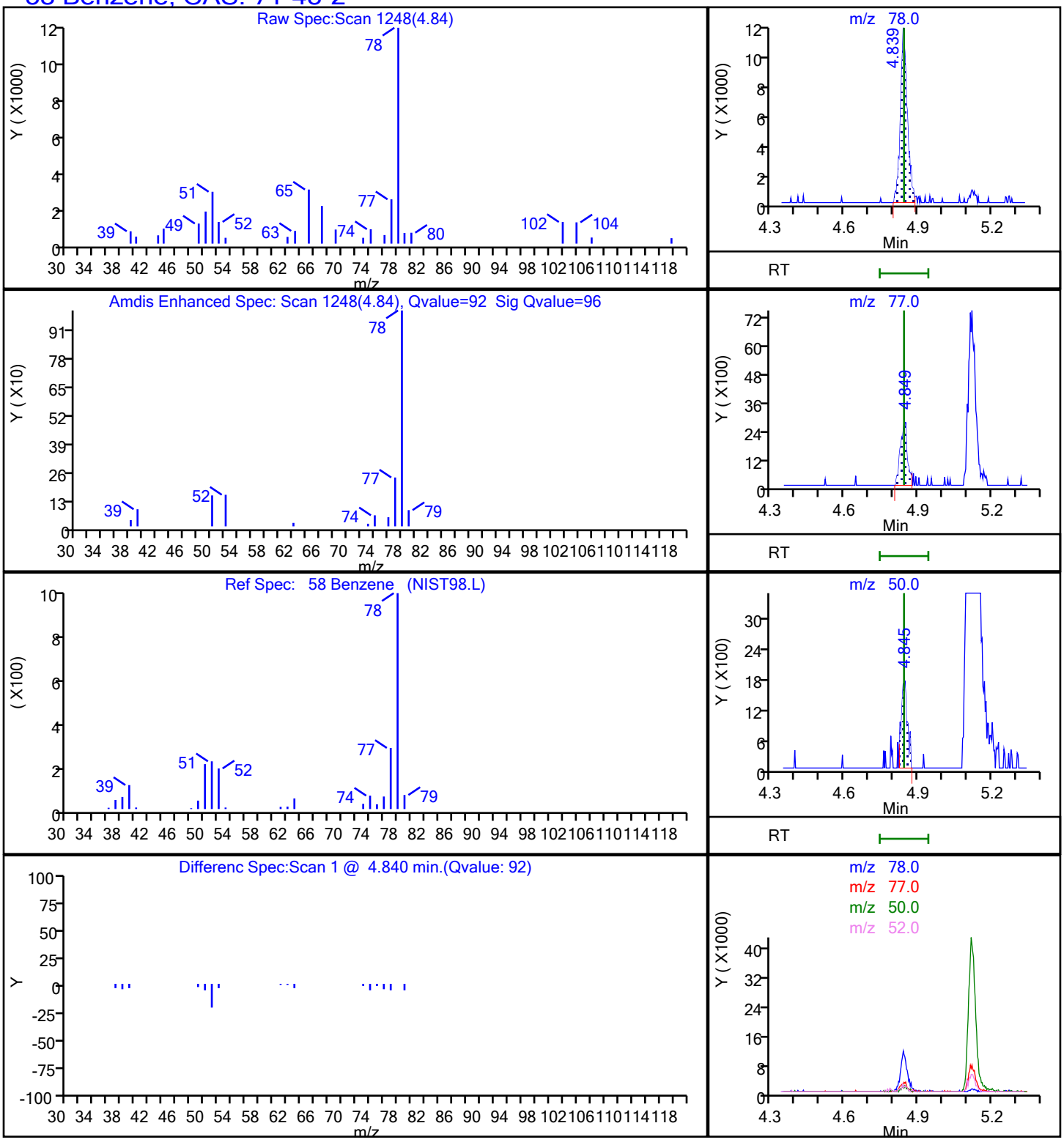
Operator ID: lcp00895 ALS Bottle#: 28 Worklist Smp#: 29

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

58 Benzene, CAS: 71-43-2



Report Date: 11-Oct-2021 20:05:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D

Injection Date: 11-Oct-2021 19:01:30 Instrument ID: 9137

Lims ID: 410-57303-C-20 Lab Sample ID: 410-57303-20

Client ID: DUP-20210930

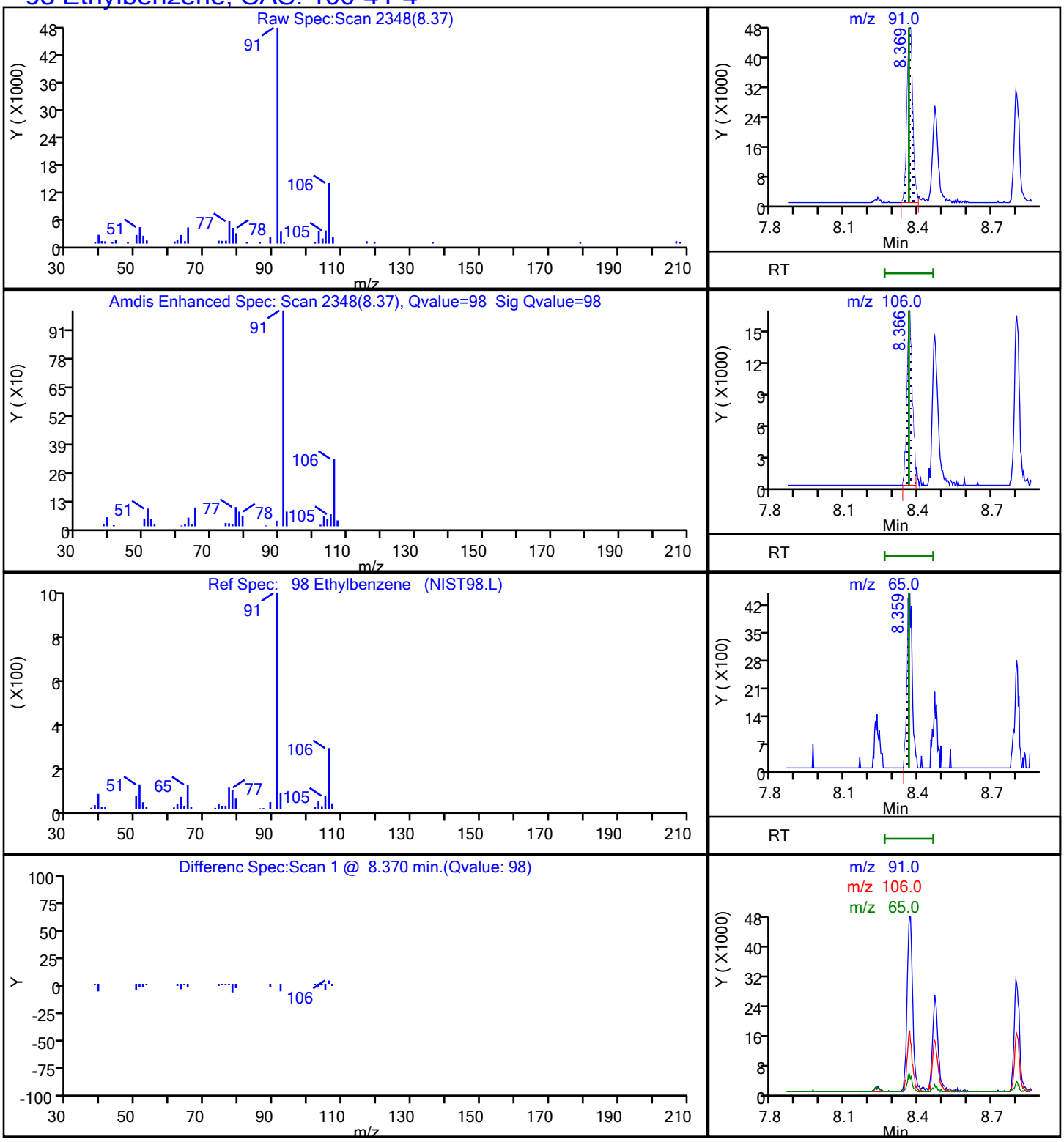
Operator ID: lcp00895 ALS Bottle#: 28 Worklist Smp#: 29

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

98 Ethylbenzene, CAS: 100-41-4



Report Date: 11-Oct-2021 20:05:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D

Injection Date: 11-Oct-2021 19:01:30 Instrument ID: 9137

Lims ID: 410-57303-C-20 Lab Sample ID: 410-57303-20

Client ID: DUP-20210930

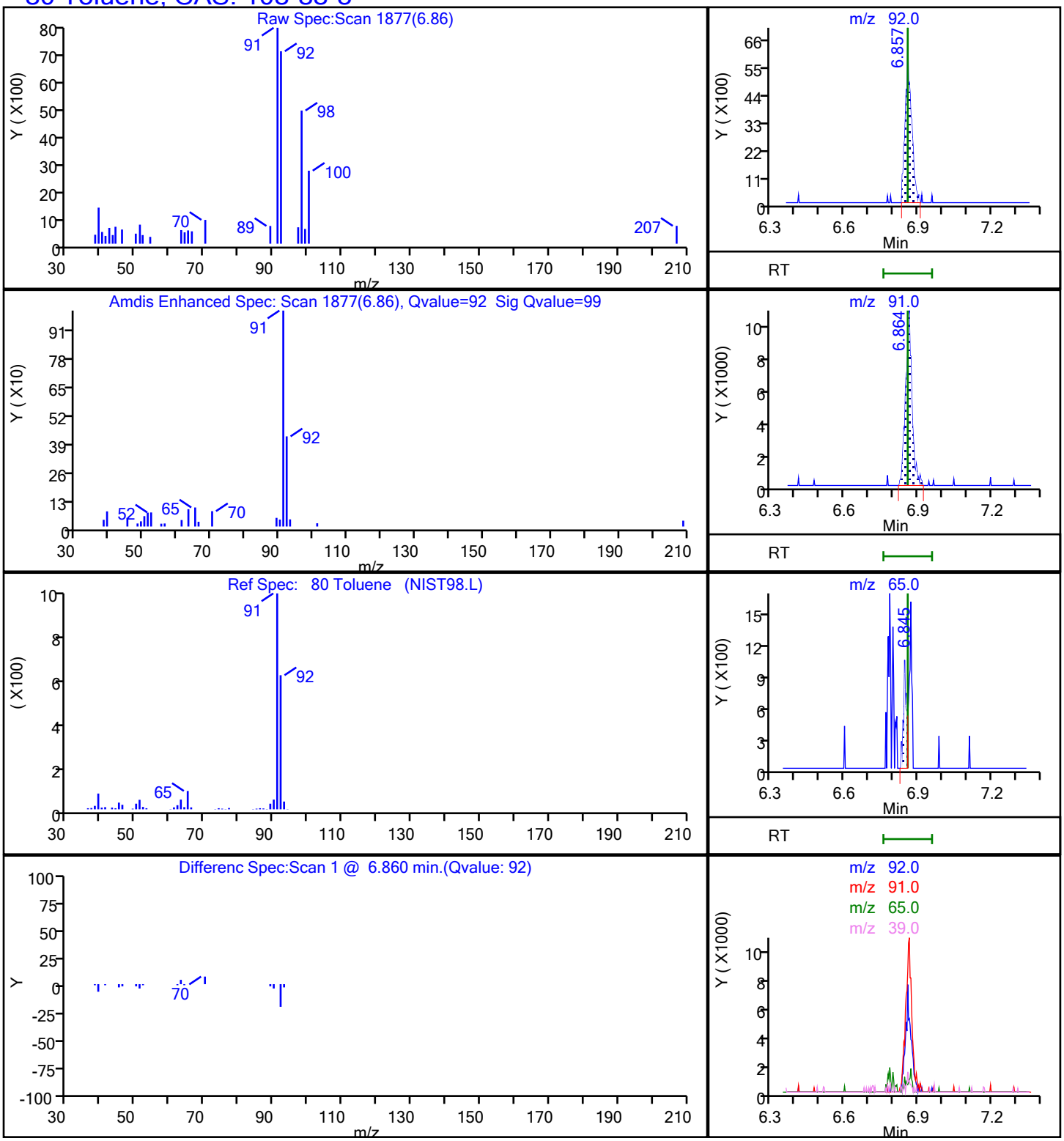
Operator ID: lcp00895 ALS Bottle#: 28 Worklist Smp#: 29

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

80 Toluene, CAS: 108-88-3

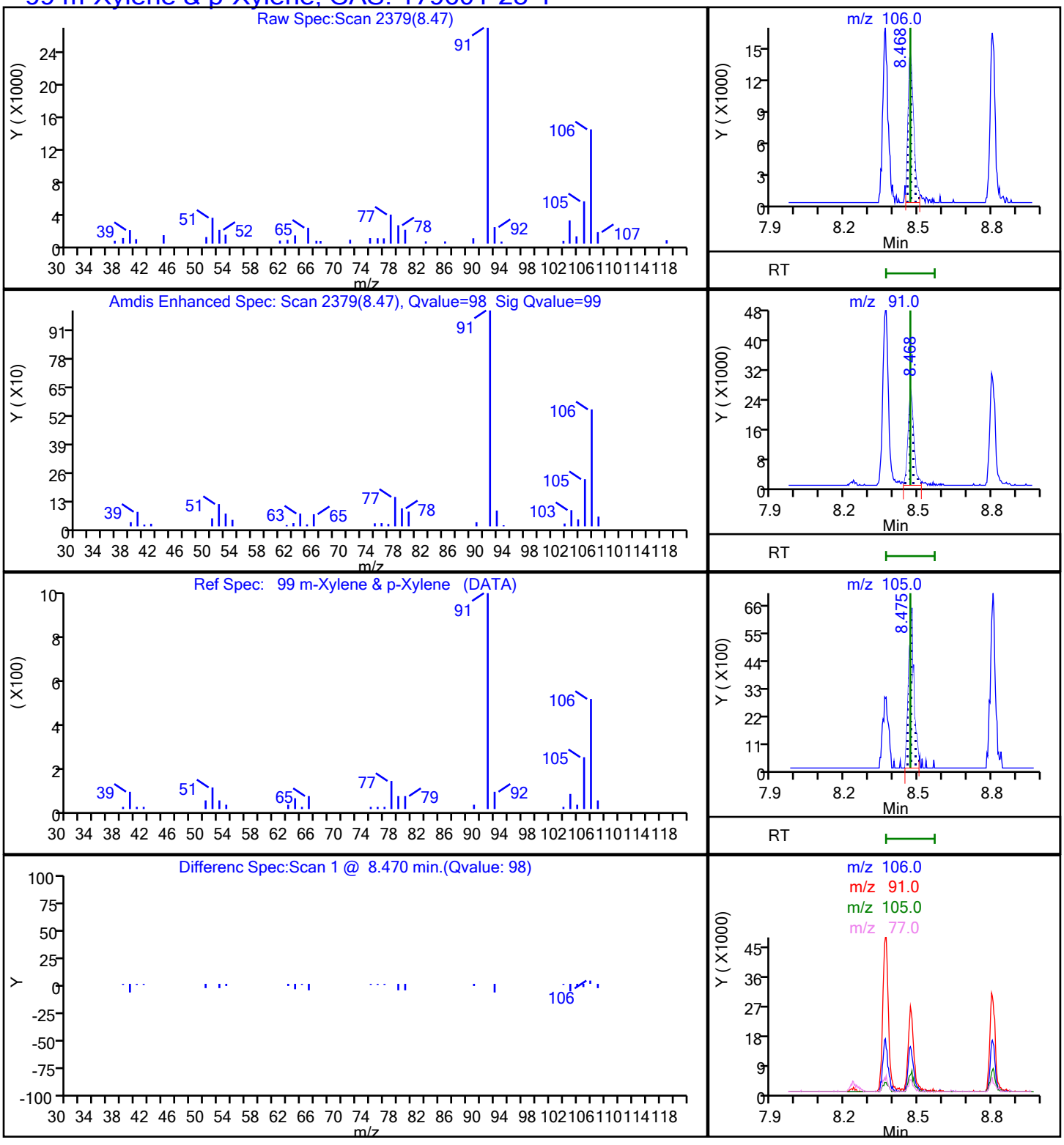


Report Date: 11-Oct-2021 20:05:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D				
Injection Date:	11-Oct-2021 19:01:30	Instrument ID:	9137		
Lims ID:	410-57303-C-20	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	lcp00895	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

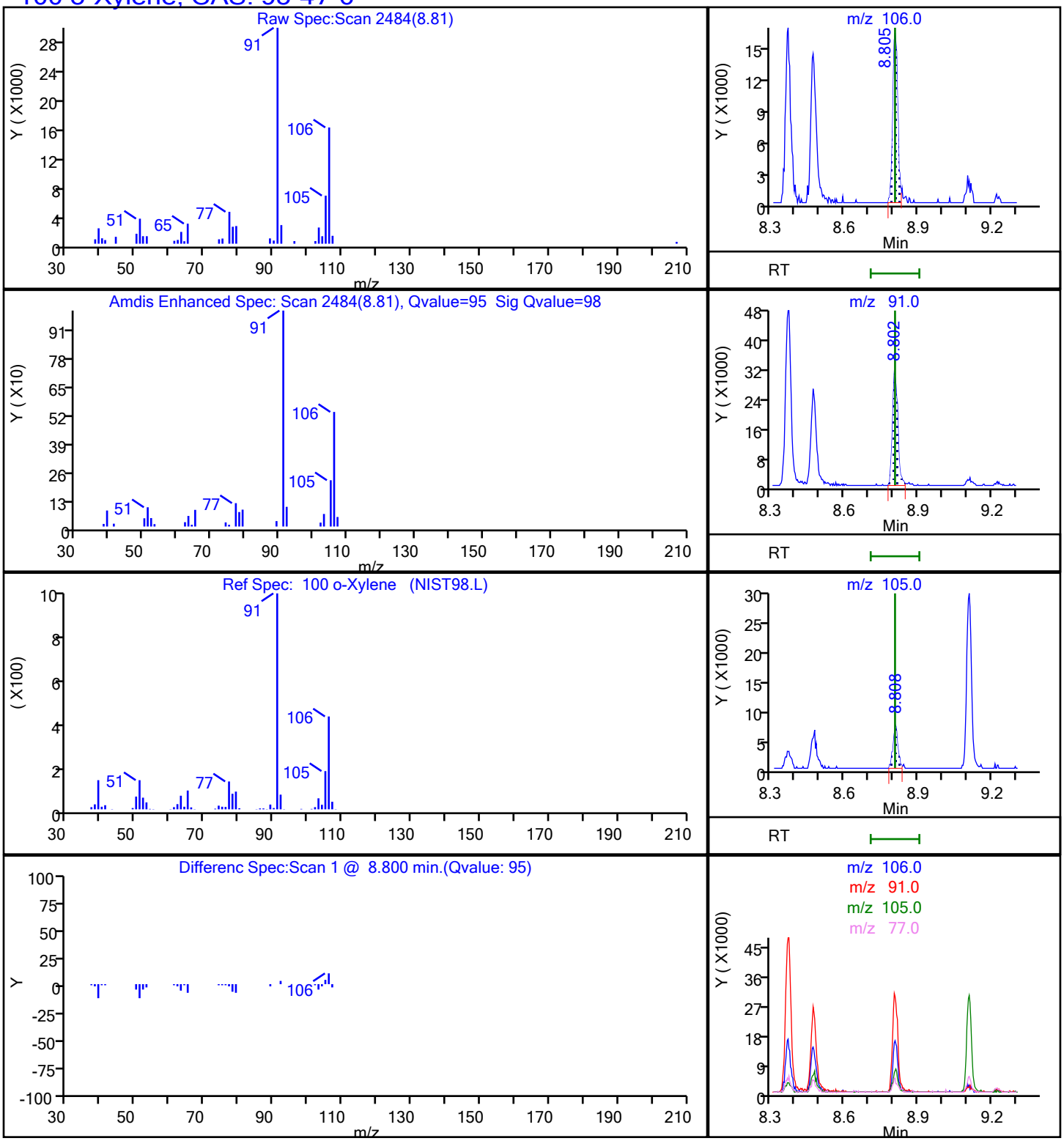
99 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D				
Injection Date:	11-Oct-2021 19:01:30	Instrument ID:	9137		
Lims ID:	410-57303-C-20	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	lcp00895	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

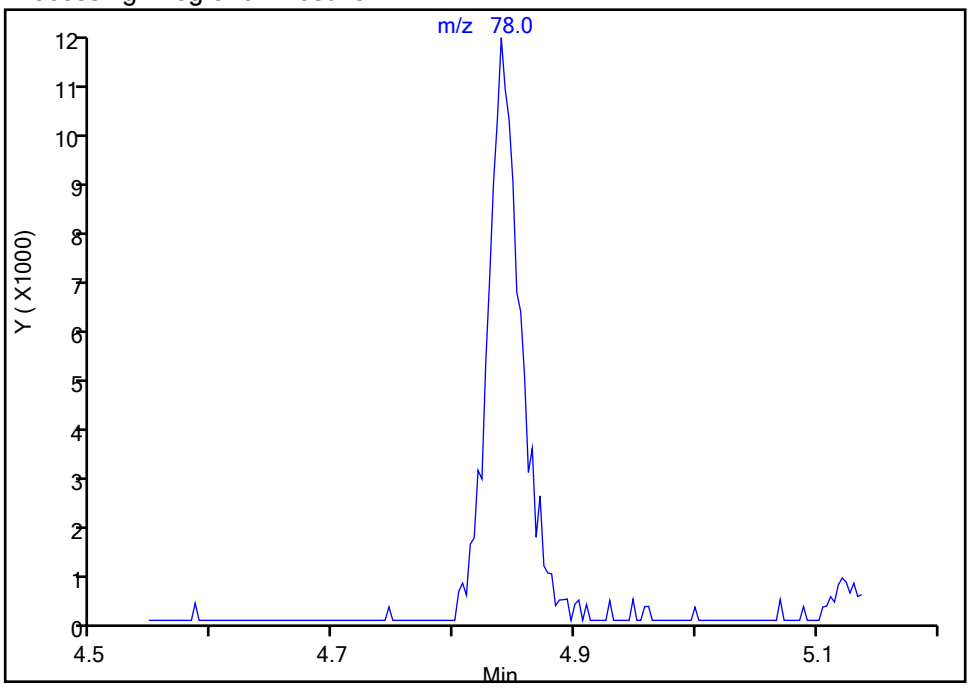
Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X28.D				
Injection Date:	11-Oct-2021 19:01:30	Instrument ID:	9137		
Lims ID:	410-57303-C-20	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	lcp00895	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

58 Benzene, CAS: 71-43-2

Signal: 1

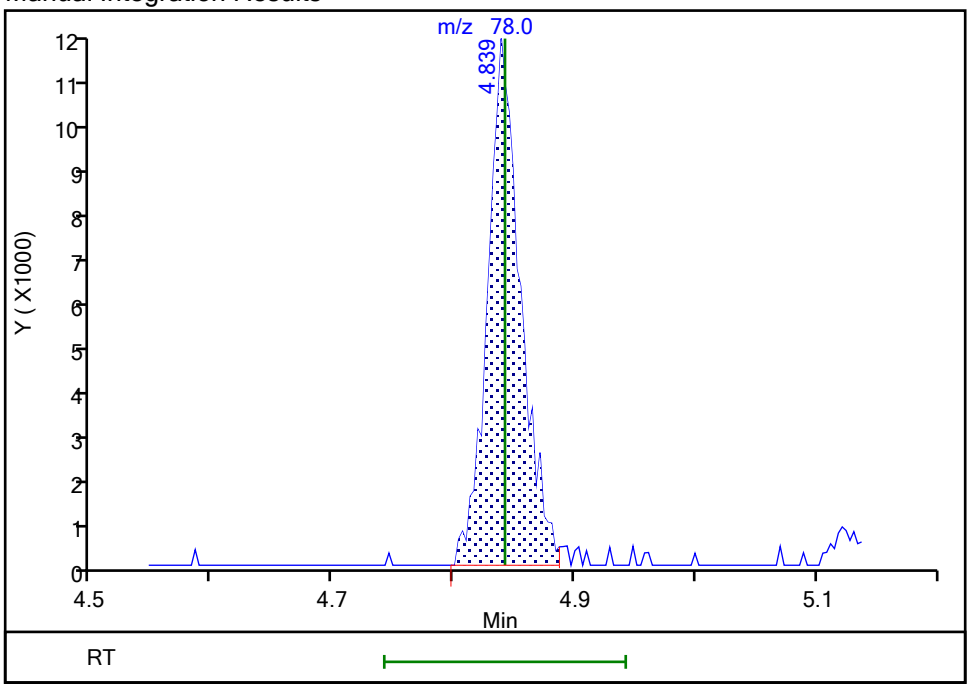
Not Detected
Expected RT: 4.84

Processing Integration Results



Manual Integration Results

RT: 4.84
Area: 21298
Amount: 0.980778
Amount Units: ug/l



Reviewer: beckerk, 11-Oct-2021 20:04:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: TripBlank-20210930 Lab Sample ID: 410-57303-21

Matrix: Water Lab File ID: WC11X07.D

Analysis Method: 8260C Date Collected: 09/30/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 11:13

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.: 181168 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)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X07.D
Lims ID: 410-57303-A-21
Client ID: TripBlank-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 11:13:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-008
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:50:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	100	209155	250.0	
33 Methyl tert-butyl ether	73		3.042				ND	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	221498	49.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.771	4.775	-0.004	78	60439	51.5	
58 Benzene	78		4.842				ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	973423	50.0	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	934388	47.8	
80 Toluene	92		6.857				ND	7
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	85	745955	50.0	
98 Ethylbenzene	91		8.362				ND	7
99 m-Xylene & p-Xylene	106		8.468				ND	
100 o-Xylene	106		8.805				ND	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	92	322816	42.6	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	384673	50.0	
S 135 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

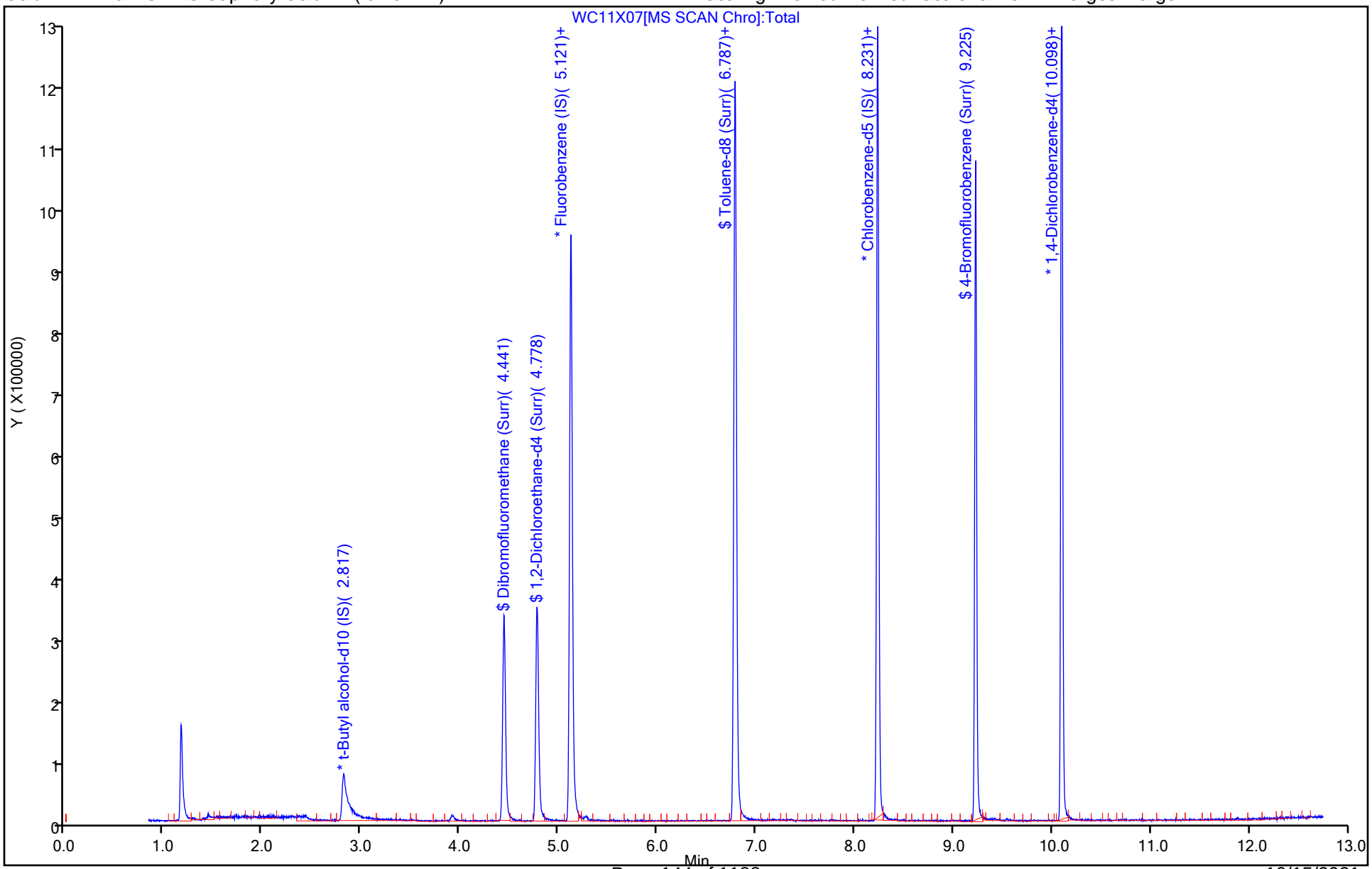
Report Date: 11-Oct-2021 16:55:04 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X07.D

Injection Date:	11-Oct-2021 11:13:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-57303-A-21	Lab Sample ID:	410-57303-21	Worklist Smp#:	8
Client ID:	TripBlank-20210930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9137	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 VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-130493/9	WY25I07.D
Level 2	IC 410-130493/8	WY25I06.D
Level 3	IC 410-130493/7	WY25I05.D
Level 4	IC 410-130493/6	WY25I04.D
Level 5	ICIS 410-130493/5	WY25I03.D
Level 6	IC 410-130493/4	WY25I02.D
Level 7	IC 410-130493/3	WY25I01.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	0.2217 0.2400	0.2343 0.2405	0.2151	0.1974	0.2347	Ave		0.2262			0.1000	7.0		20.0			
Chloromethane	0.3502 0.3553	0.3395 0.3374	0.3403	0.3249	0.3475	Ave		0.3421			0.1000	2.9		20.0			
Vinyl chloride	0.3137 0.3495	0.3457 0.3432	0.3353	0.3070	0.3534	Ave		0.3354			0.1000	5.4		20.0			
1,3-Butadiene	0.3531 0.3244	0.3210 0.3256	0.2926	0.2720	0.3283	Ave		0.3167				8.3		20.0			
Bromomethane	0.2360 0.2283	0.2284 0.2178	0.2251	0.2048	0.2264	Ave		0.2238			0.1000	4.4		20.0			
Chloroethane	0.2101 0.2148	0.2049 0.2055	0.2127	0.1932	0.2152	Ave		0.2080			0.1000	3.7		20.0			
Dichlorofluoromethane	0.4742 0.4688	0.4378 0.4411	0.4471	0.4060	0.4698	Ave		0.4493			0.1000	5.4		20.0			
Trichlorofluoromethane	0.3208 0.3630	0.3400 0.3343	0.3230	0.3011	0.3718	Ave		0.3363			0.1000	7.3		20.0			
n-Pentane	0.4920 0.4540	0.3914 0.4316	0.3721	0.4286	0.4563	Ave		0.4323				9.4		20.0			
Ethanol	0.1419 0.0870	0.0961 0.0854	0.0967	0.0872	0.0850	Lin	3.2525	0.0850							1.0000		0.9900
Freon 123a	0.2981 0.3122	0.3030 0.3060	0.2864	0.2662	0.3140	Ave		0.2980				5.6		20.0			
Acrolein	1.6162 2.0610	1.6557 1.8884	1.8613	1.9244	1.9998	Ave		1.8581				9.0		20.0			
1,1-Dichloroethene	0.3025 0.2420	0.2584 0.2410	0.2472	0.2422	0.2488	Ave		0.2546			0.1000	8.6		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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	0.2318 0.2149	0.2256 0.2180	0.1966	0.2297	0.2251	Ave		0.2202			0.1000	5.5		20.0			
Acetone	1.7046 0.7847	0.9656 0.7493	0.7726	0.6678	0.7999	Lin	1.8434	0.7494			0.1000				1.0000		0.9900
2-Propanol	0.3305 0.5620	0.3701 0.5624	0.3952	0.4222	0.5433	Lin1	-8.633	0.5589							0.9940		0.9900
Methyl iodide	0.4439 0.4683	0.4844 0.4486	0.4782	0.4786	0.4678	Ave		0.4671				3.3		20.0			
Carbon disulfide	0.9006 0.8810	0.9451 0.8505	0.9065	0.9257	0.9084	Ave		0.9026			0.1000	3.4		20.0			
Allyl chloride	0.4184 0.4754	0.4313 0.3445	0.4564	0.4839	0.4687	Ave		0.4398				11.0		20.0			
Methyl acetate	0.3069 0.3341	0.3059 0.3339	0.2934	0.3037	0.3279	Ave		0.3151			0.1000	5.2		20.0			
Methylene Chloride	0.3309 0.3105	0.3276 0.2886	0.3126	0.3172	0.3017	Ave		0.3127			0.1000	4.7		20.0			
t-Butyl alcohol	1.1292 1.2194	1.0516 1.1050	1.1624	1.0828	1.0983	Ave		1.1213				5.0		20.0			
Acrylonitrile	0.1399 0.1650	0.1409 0.1679	0.1363	0.1465	0.1635	Ave		0.1514				8.9		20.0			
trans-1,2-Dichloroethene	0.2898 0.2689	0.2802 0.2679	0.2769	0.2820	0.2715	Ave		0.2768			0.1000	2.9		20.0			
Methyl tertiary butyl ether	0.9738 0.9880	0.9412 0.9532	0.9263	0.9772	0.9881	Ave		0.9640			0.1000	2.5		20.0			
n-Hexane	0.3771 0.3218	0.3013 0.3206	0.2142	0.3276	0.3208	Ave		0.3119				15.7		20.0			
1,1-Dichloroethane	0.4682 0.4978	0.4979 0.4849	0.5054	0.5139	0.5001	Ave		0.4955			0.2000	3.0		20.0			
di-Isopropyl ether	0.9761 0.9729	0.9328 0.9392	0.9440	0.9913	0.9738	Ave		0.9614				2.3		20.0			
2-Chloro-1,3-butadiene	0.4661 0.4479	0.4762 0.4435	0.4289	0.4606	0.4548	Ave		0.4540				3.4		20.0			
Ethyl t-butyl ether	0.9585 0.9546	0.9189 0.9288	0.9531	0.9611	0.9396	Ave		0.9450				1.7		20.0			
cis-1,2-Dichloroethene	0.3192 0.2959	0.3045 0.2896	0.2966	0.3026	0.2952	Ave		0.3005			0.1000	3.2		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,2-Dichloropropane	0.2194 0.1993	0.2204 0.1716	0.2183	0.2229	0.2139	Ave		0.2094				8.8		20.0			
2-Butanone	0.2260 0.2483	0.1964 0.2425	0.2062	0.2069	0.2454	Ave		0.2245			0.1000	9.6		20.0			
Propionitrile	1.2238 1.3899	1.1410 1.3228	1.2726	1.3291	1.3100	Ave		1.2842				6.3		20.0			
Methacrylonitrile	0.1835 0.1958	0.1802 0.1912	0.1676	0.1857	0.1904	Ave		0.1849				5.0		20.0			
Bromochloromethane	0.1367 0.1452	0.1426 0.1427	0.1429	0.1455	0.1471	Ave		0.1432				2.3		20.0			
Tetrahydrofuran	1.4764 1.4209	1.2556 1.2800	1.2765	1.3665	1.3720	Ave		1.3497				6.1		20.0			
Chloroform	0.4991 0.4733	0.4984 0.4616	0.4804	0.4895	0.4750	Ave		0.4825			0.2000	2.9		20.0			
1,1,1-Trichloroethane	0.3958 0.3927	0.4292 0.3884	0.3791	0.4076	0.4025	Ave		0.3993			0.1000	4.0		20.0			
Cyclohexane	0.4882 0.4690	0.4565 0.4704	0.3678	0.4830	0.4729	Ave		0.4583			0.1000	9.0		20.0			
1,1-Dichloropropene	0.3464 0.3726	0.3875 0.3748	0.3498	0.3887	0.3767	Ave		0.3709				4.5		20.0			
Carbon tetrachloride	0.2946 0.3261	0.3329 0.3320	0.3123	0.3400	0.3339	Ave		0.3245			0.1000	4.9		20.0			
Isobutyl alcohol	0.3546 0.4267	0.3116 0.3729	0.3870	0.3736	0.3838	Ave		0.3729				9.4		20.0			
Benzene	1.1209 1.1719	1.1782 1.1237	1.1631	1.2062	1.1840	Ave		1.1640			0.5000	2.7		20.0			
1,2-Dichloroethane	0.4431 0.3983	0.4078 0.3897	0.3872	0.4020	0.3911	Ave		0.4027			0.1000	4.8		20.0			
t-Amyl methyl ether	0.8826 0.9446	0.9457 0.9168	0.9176	0.9490	0.9445	Ave		0.9287				2.6		20.0			
n-Heptane	0.3204 0.2800	0.3291 0.2750	0.2181	0.2883	0.2789	Ave		0.2843				12.7		20.0			
n-Butanol	0.2847 0.3592	0.3263 0.3247	0.3118	0.3200	0.3118	Ave		0.3198				7.0		20.0			
Trichloroethene	0.3008 0.2896	0.3009 0.2855	0.2887	0.2960	0.2923	Ave		0.2934			0.2000	2.1		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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	0.4067 0.3864	0.3732 0.3883	0.2674	0.3947	0.3855	Ave		0.3717			0.1000	12.7		20.0			
1,2-Dichloropropane	0.3041 0.3243	0.3132 0.3170	0.3155	0.3309	0.3205	Ave		0.3179			0.1000	2.7		20.0			
t-Amyl ethyl ether	0.4415 0.4623	0.4581 0.4575	0.4632	0.4820	0.4581	Ave		0.4604				2.6		20.0			
Dibromomethane	0.1894 0.1948	0.1921 0.1919	0.1886	0.1968	0.1949	Ave		0.1926				1.6		20.0			
Methyl methacrylate	0.3260 0.3353	0.3214 0.3237	0.3096	0.3305	0.3331	Ave		0.3256				2.7		20.0			
1,4-Dioxane	0.0737 0.0968	0.0920 0.0919	0.1077	0.1016	0.0981	Ave		0.0945			0.0050	11.4		20.0			
Bromodichloromethane	0.4114 0.3764	0.3717 0.3698	0.3705	0.3870	0.3784	Ave		0.3807			0.2000	3.9		20.0			
2-Nitropropane	2.4921 2.9803	2.6463 2.6449	2.7376	3.0280	2.8308	Ave		2.7657				7.0		20.0			
2-Chloroethyl vinyl ether	0.2176 0.2584	0.2243 0.2580	0.2402	0.2419	0.2548	Ave		0.2422				6.7		20.0			
cis-1,3-Dichloropropene	0.4748 0.5211	0.4960 0.5068	0.5039	0.5348	0.5204	Ave		0.5083			0.2000	3.9		20.0			
4-Methyl-2-pentanone	0.5225 0.5362	0.4396 0.5085	0.4845	0.4696	0.5497	Ave		0.5015			0.1000	7.8		20.0			
Toluene	0.9415 0.9969	1.0044 0.9457	0.9708	1.0195	0.9931	Ave		0.9817			0.4000	3.0		20.0			
trans-1,3-Dichloropropene	0.6051 0.6644	0.6274 0.6356	0.6222	0.6599	0.6534	Ave		0.6383			0.1000	3.4		20.0			
Ethyl methacrylate	0.7638 0.7698	0.7453 0.7213	0.6956	0.7253	0.7455	Ave		0.7381				3.5		20.0			
1,1,2-Trichloroethane	0.3739 0.3889	0.4021 0.3709	0.3718	0.3857	0.3861	Ave		0.3828			0.1000	3.0		20.0			
Tetrachloroethene	0.3735 0.3796	0.3933 0.3702	0.3464	0.3942	0.3877	Ave		0.3779			0.2000	4.4		20.0			
1,3-Dichloropropane	0.6613 0.6741	0.6538 0.6454	0.6449	0.6593	0.6742	Ave		0.6590				1.8		20.0			
2-Hexanone	0.4376 0.5487	0.4360 0.5158	0.4723	0.4748	0.5742	Ave		0.4942			0.1000	10.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	0.4077 0.4200	0.3934 0.4046	0.3948	0.4246	0.4147	Ave		0.4086				2.9		20.0			
1,2-Dibromoethane	0.3942 0.4259	0.4200 0.4120	0.4073	0.4108	0.4266	Ave		0.4138			0.1000	2.8		20.0			
1-Chlorohexane	0.6055 0.4700	0.4843 0.4639	0.3781	0.4896	0.4780	Ave		0.4813				13.8		20.0			
Chlorobenzene	1.0237 1.0576	1.0760 1.0098	1.0153	1.0783	1.0656	Ave		1.0466			0.5000	2.8		20.0			
1,1,1,2-Tetrachloroethane	0.3337 0.3695	0.3536 0.3598	0.3520	0.3668	0.3693	Ave		0.3578				3.6		20.0			
Ethylbenzene	1.7081 1.8257	1.8431 1.6815	1.7461	1.8728	1.8319	Ave		1.7870			0.1000	4.2		20.0			
m&p-Xylene	0.6874 0.7043	0.7107 0.6565	0.6532	0.7117	0.7074	Ave		0.6902			0.1000	3.7		20.0			
o-Xylene	0.6922 0.7050	0.7073 0.6685	0.6725	0.7211	0.7065	Ave		0.6962			0.3000	2.8		20.0			
Styrene	1.1768 1.2602	1.2184 1.1752	1.1703	1.2494	1.2567	Ave		1.2153			0.3000	3.4		20.0			
Bromoform	0.2930 0.3497	0.3095 0.3369	0.3064	0.3242	0.3394	Ave		0.3228			0.1000	6.4		20.0			
Isopropylbenzene	1.6064 1.6539	1.7144 1.4966	1.4484	1.7276	1.6692	Ave		1.6166			0.1000	6.6		20.0			
Cyclohexanone	0.5315 0.4915	0.5445 0.3726	0.5611	0.5538	0.5511	Ave		0.5152				13.0		20.0			
Bromobenzene	0.7841 0.8535	0.8655 0.7939	0.8157	0.8561	0.8334	Ave		0.8289				3.9		20.0			
1,1,2,2-Tetrachloroethane	1.2947 1.2706	1.2140 1.1662	1.2119	1.2364	1.2232	Ave		1.2310			0.3000	3.4		20.0			
1,2,3-Trichloropropane	0.3590 0.3677	0.3754 0.3426	0.3433	0.3620	0.3549	Ave		0.3579				3.4		20.0			
trans-1,4-Dichloro-2-butene	0.3818 0.4510	0.4032 0.4243	0.4050	0.4336	0.4287	Ave		0.4182				5.5		20.0			
N-Propylbenzene	3.6155 3.5986	3.8750 3.1718	3.1071	3.7424	3.6026	Ave		3.5304				8.1		20.0			
2-Chlorotoluene	0.6990 0.7743	0.7890 0.7188	0.7068	0.7943	0.7497	Ave		0.7474				5.3		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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	2.5390 2.5782	2.7195 2.3139	2.2375	2.6999	2.5864	Ave		2.5249				7.3		20.0			
4-Chlorotoluene	0.7783 0.8103	0.8234 0.7607	0.7448	0.8313	0.8020	Ave		0.7930				4.1		20.0			
tert-Butylbenzene	0.5241 0.5362	0.5442 0.4974	0.4444	0.5722	0.5304	Ave		0.5213				7.8		20.0			
Pentachloroethane	0.4101 0.5131	0.5261 0.4859	0.4498	0.5079	0.4940	Ave		0.4838				8.4		20.0			
1,2,4-Trimethylbenzene	2.6720 2.7593	2.7833 2.4524	2.4342	2.8546	2.7273	Ave		2.6690				6.1		20.0			
sec-Butylbenzene	2.8274 2.7127	2.8602 2.4286	2.2032	2.8798	2.7464	Ave		2.6654				9.5		20.0			
1,3-Dichlorobenzene	1.5468 1.5350	1.5476 1.4056	1.4112	1.5945	1.5093	Ave		1.5071			0.6000	4.8		20.0			
p-Isopropyltoluene	2.5404 2.4149	2.5296 2.1890	1.9896	2.5439	2.4408	Ave		2.3783				8.9		20.0			
1,4-Dichlorobenzene	1.6038 1.5855	1.6543 1.4566	1.4823	1.5880	1.5739	Ave		1.5635			0.5000	4.5		20.0			
1,2,3-Trimethylbenzene	2.8408 2.8143	2.8788 2.5237	2.5685	2.9640	2.8485	Ave		2.7769				5.9		20.0			
Benzyl chloride	2.5111 2.7822	2.5283 2.5265	2.4530	2.6715	2.6823	Ave		2.5936				4.6		20.0			
1,3-Diethylbenzene	1.4581 1.4659	1.5679 1.3678	1.2467	1.5701	1.5007	Ave		1.4539				7.9		20.0			
1,4-Diethylbenzene	1.6087 1.5079	1.6170 1.4006	1.2921	1.6141	1.5476	Ave		1.5126				8.2		20.0			
n-Butylbenzene	1.1635 1.1481	1.2250 1.0959	0.9256	1.2188	1.1742	Ave		1.1359				9.0		20.0			
1,2-Dichlorobenzene	1.4838 1.5234	1.6004 1.3966	1.4290	1.5618	1.5233	Ave		1.5026			0.4000	4.8		20.0			
1,2-Diethylbenzene	1.3220 1.2481	1.3745 1.1777	1.0688	1.3369	1.2862	Ave		1.2592				8.4		20.0			
1,2-Dibromo-3-Chloropropane	0.2772 0.3131	0.3191 0.3062	0.2976	0.2993	0.3081	Ave		0.3030			0.0500	4.5		20.0			
1,2,4-Trichlorobenzene	0.9933 0.8826	0.9634 0.8984	0.7979	1.0028	0.9562	Ave		0.9278			0.2000	7.8		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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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								
1,2,3-Trichlorobenzene	0.9699 0.8909	0.9627 0.8762	0.8232	0.9707	0.9516	Ave		0.9208				6.3		20.0			
Hexachlorobutadiene	0.4681 0.3039	0.3822 0.3161	0.2663	0.3707	0.3577	Ave		0.3521				18.6		20.0			
Naphthalene	3.7335 3.7681	3.8871 3.2479	3.4716	3.8602	3.7630	Ave		3.6759				6.3		20.0			
1,3,5-Trichlorobenzene	0.9431 0.8879	0.9624 0.8458	0.7905	0.9443	0.9128	Ave		0.8981				6.9		20.0			
2-Methylnaphthalene	1.7965 1.9285	1.7312 1.6866	1.4721	1.7700	1.8326	Ave		1.7454				8.2		20.0			
Dibromofluoromethane (Surr)	0.2272 0.2261	0.2258 0.2303	0.2304	0.2285	0.2265	Ave		0.2278				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0609 0.0602	0.0598 0.0599	0.0614	0.0599	0.0598	Ave		0.0603				1.0		20.0			
Toluene-d8 (Surr)	1.3011 1.3095	1.3225 1.3001	1.3139	1.3086	1.3089	Ave		1.3092				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.5027 0.5119	0.5093 0.5121	0.5064	0.5026	0.5075	Ave		0.5075				0.8		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-130493/9	WY25I07.D
Level 2	IC 410-130493/8	WY25I06.D
Level 3	IC 410-130493/7	WY25I05.D
Level 4	IC 410-130493/6	WY25I04.D
Level 5	ICIS 410-130493/5	WY25I03.D
Level 6	IC 410-130493/4	WY25I02.D
Level 7	IC 410-130493/3	WY25I01.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	5444 610929	22813 1852251	51993	97257	297667	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	8598 904274	33054 2599010	82265	160027	440677	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	7703 889571	33662 2643584	81056	151228	448134	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	8670 825676	31252 2507656	70735	133988	416291	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	5796 580986	22237 1677718	54413	100898	287058	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	5159 546667	19950 1582544	51416	95183	272867	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	11645 1193159	42630 3397169	108103	199982	595805	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	7878 923839	33100 2574807	78099	148342	471528	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	12080 1155468	38106 3324241	89957	211107	578635	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBAd 10	Lin	11005 260254	26917 835516	50700	92319	131571	62.5 2500	250 7500	500	1000	1250
Freon 123a	FB	Ave	7319 794747	29503 2356541	69232	131130	398192	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd 10	Ave	20053 2465300	74203 7391352	195206	407588	1237758	10.0 1000	40.0 3000	100	200	500
1,1-Dichloroethene	FB	Ave	7429	25160	59758	119301	315566	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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
			615973	1856057				100	300			
Freon 113	FB	Ave	5692 547053	21965 1679173	47527	113131	285432	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd10	Lin	4230 187706	8654 586569	16205	28289	99011	2.00 200	8.00 600	20.0	40.0	100
2-Propanol	TBAd10	Lin1	8201 336115	33167 1100687	41449	89427	168124	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	10899 1191934	47161 3455548	115615	235775	593230	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	22115 2242429	92021 6550960	219153	456012	1151930	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	10273 1210070	41993 2653143	110328	238357	594404	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	7535 850377	29788 2571749	70929	149612	415805	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	8125 790285	31894 2222503	75584	156276	382602	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	28020 729258	94254 2162546	121908	229328	339892	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	8588 1050046	34297 3233965	82372	180462	518484	2.50 250	10.0 750	25.0	50.0	125
trans-1,2-Dichloroethene	FB	Ave	7116 684467	27281 2063700	66951	138927	344291	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	23911 2514775	91643 7341803	223946	481367	1253036	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	9260 819189	29331 2469649	51789	161373	406777	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	11497 1266950	48474 3735084	122179	253151	634239	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	23968 2476415	90820 7234152	228210	488290	1234968	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	11444 1140000	46365 3415837	103696	226866	576704	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	23536 2429883	89472 7153539	230422	473453	1191585	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	7839 753113	29643 2230323	71716	149051	374290	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	5387 507347	21458 1321821	52766	109779	271193	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	11101 1263953	38248 3734987	99707	203793	622389	2.00 200	8.00 600	20.0	40.0	100
Propionitrile	TBAd 10	Ave	30368 831208	102267 2588685	133460	281487	405376	20.0 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	45063 1246192	175409 3682362	202619	457430	603704	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	3357 369579	13887 1099013	34544	71684	186479	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd 10	Ave	9159 849740	28133 2504865	66933	144709	424578	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	12255 1204746	48527 3555399	116130	241103	602413	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	9719 999520	41792 2991900	91657	200759	510363	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	11988 1193827	44443 3623247	88924	237903	599760	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	8505 948415	37732 2887035	84567	191458	477671	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	7234 830141	32413 2557156	75502	167483	423419	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	22000 638014	69815 1824394	101462	197825	296907	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	27525 2982746	114713 8655311	281199	594187	1501515	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10881 1013723	39708 3001573	93606	198021	495995	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	21673	92077	221829	467475	1197805	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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
			2404362	7061671				100	300			
n-Heptane	FB	Ave	7868 712738	32042 2117869	52736	141995	353688	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Ave	30903 536976	127958 1588485	122607	254147	241257	87.5 1250	350 3750	375	750	625
Trichloroethene	FB	Ave	7386 737078	29296 2198971	69807	145785	370681	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	9986 983435	36337 2990794	64649	194435	488859	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	7466 825555	30493 2441727	76283	162995	406439	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	10841 1176678	44599 3524091	111975	237415	580895	1.00 100	4.00 300	10.0	20.0	50.0
Dibromomethane	FB	Ave	4651 495950	18704 1477824	45604	96929	247174	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	8004 853499	31289 2492885	74855	162789	422423	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	4570 144719	20611 449549	28250	53790	75904	50.0 1250	200 3750	250	500	625
Bromodichloromethane	FB	Ave	10102 957955	36189 2848653	89571	190646	479807	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	15460 1782338	59294 5175936	143550	320662	876026	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	5343 657619	21843 1987106	58077	119168	323081	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	11659 1326287	48296 3903625	121833	263418	659977	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	25658 2729370	85601 7833919	234267	462689	1394269	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd 5	Ave	17533 1911034	73130 5561821	178239	382311	950880	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	11267 1273553	45681 3737773	114241	247465	625620	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd 5	Ave	14223 1475692	54270 4242272	127716	271984	713802	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd 5	Ave	6963 745501	29280 2181210	68269	144635	369653	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd 5	Ave	6956 727699	28636 2177409	63601	147823	371229	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd 5	Ave	12315 1292149	47604 3795668	118406	247242	645576	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd 5	Ave	16297 2103793	63491 6067028	173437	356061	1099543	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd 5	Ave	7592 805131	28646 2379323	72491	159233	397070	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd 5	Ave	7340 816326	30582 2422977	74784	154034	408443	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd 5	Ave	11275 901012	35262 2728043	69426	183599	457699	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd 5	Ave	19062 2027248	78347 5938462	186413	404370	1020295	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	6214 708317	25747 2116215	64638	137530	353588	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd 5	Ave	31808 3499634	134201 9888774	320598	702272	1754003	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	25602 2700243	103491 7721957	239884	533785	1354696	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd 5	Ave	12890 1351493	51501 3931752	123482	270401	676443	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd 5	Ave	21913 2415799	88712 6911581	214883	468522	1203256	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd 5	Ave	5457 670401	22537 1981499	56263	121590	324937	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd 5	Ave	29914 3170367	124827 8801476	265940	647830	1598232	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd 10	Ave	32975 734897	122014 1822886	147104	293252	426330	50.0 1250	200 3750	250	500	625
Bromobenzene	DCBd 4	Ave	7719 883892	33670 2551731	80129	172193	433356	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	12746 1315889	47231 3748630	119049	248697	636003	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3534 380818	14605 1101175	33724	72824	184533	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	37584 1167575	156856 3409466	198931	436098	557322	10.0 250	40.0 750	50.0	100	125
N-Propylbenzene	DCBd 4	Ave	35594 3726765	150753 10195092	305216	752776	1873194	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	6882 801866	30695 2310319	69429	159764	389829	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	24996 2670015	105799 7437513	219796	543079	1344830	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	7662 839173	32034 2445240	73160	167212	417009	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	5160 555332	21170 1598891	43651	115097	275782	1.00 100	4.00 300	10.0	20.0	50.0
Pentachloroethane	DCBd 4	Ave	4037 531325	20466 1561885	44185	102166	256884	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	26306 2857546	108281 7882568	239118	574195	1418076	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	27835 2809286	111271 7806161	216418	579261	1427999	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	15228 1589682	60207 4518069	138627	320728	784758	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	25010 2500845	98412 7035964	195437	511692	1269122	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	15789 1641920	64360 4682020	145608	319417	818367	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	27967 2914527	111998 8111942	252303	596191	1481078	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	24722 2881258	98362 8120868	240965	537369	1394699	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	14355 1518045	60999 4396386	122465	315821	780314	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	15837 1561553	62909 4501905	126924	324677	804691	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	11455 1188965	47658 3522471	90919	245166	610558	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	14608 1577684	62260 4489050	140377	314150	792043	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	13015 1292577	53473 3785304	104990	268918	668761	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2729 324287	12415 984181	29233	60211	160192	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	9779 914018	37478 2887619	78378	201714	497188	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	9549 922636	37451 2816293	80868	195263	494806	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	4608 314680	14870 1015875	26155	74556	185973	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	36756 3902297	151221 10439600	341022	776474	1956616	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	9285 919469	37440 2718584	77648	189937	474626	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	17686 1997126	67352 5421319	144609	356040	952899	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	279005 287700	274847 295645	278454	281355	287170	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	74725	72816	74212	73745	75826	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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
			76593	76880				50.0	50.0			
Toluene-d8 (Surr)	CBZd 5	Ave	1211439 1255125	1203686 1274279	1206179	1226830	1253251	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	468061 490590	463559 501965	464911	471133	485928	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend

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

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-130493/9	WY25I07.D
Level 2	IC 410-130493/8	WY25I06.D
Level 3	IC 410-130493/7	WY25I05.D
Level 4	IC 410-130493/6	WY25I04.D
Level 5	ICIS 410-130493/5	WY25I03.D
Level 6	IC 410-130493/4	WY25I02.D
Level 7	IC 410-130493/3	WY25I01.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	-2.0 6.3	3.6	-4.9	-12.7	3.7	6.1	50 30	30	30	30	30	30
Chloromethane	2.3 -1.4	-0.8	-0.5	-5.0	1.6	3.8	50 30	30	30	30	30	30
Vinyl chloride	-6.5 2.3	3.1	0.0	-8.5	5.4	4.2	50 30	30	30	30	30	30
1,3-Butadiene	11.5 2.8	1.4	-7.6	-14.1	3.7	2.4	50 30	30	30	30	30	30
Bromomethane	5.5 -2.7	2.0	0.6	-8.5	1.1	2.0	50 30	30	30	30	30	30
Chloroethane	1.0 -1.2	-1.5	2.2	-7.1	3.4	3.2	50 30	30	30	30	30	30
Dichlorofluoromethane	5.6 -1.8	-2.5	-0.5	-9.6	4.6	4.3	50 30	30	30	30	30	30
Trichlorofluoromethane	-4.6 -0.6	1.1	-3.9	-10.5	10.6	7.9	50 30	30	30	30	30	30
n-Pentane	13.8 -0.2	-9.5	-13.9	-0.9	5.6	5.0	50 30	30	30	30	30	30
Ethanol	5.8 0.0	-2.2	6.1	-1.2	-3.0	0.9	50 30	30	30	30	30	30
Freon 123a	0.0 2.7	1.7	-3.9	-10.7	5.4	4.8	50 30	30	30	30	30	30
Acrolein	-13.0 1.6	-10.9	0.2	3.6	7.6	10.9	50 30	30	30	30	30	30
1,1-Dichloroethene	18.8 -5.3	1.5	-2.9	-4.9	-2.3	-4.9	50 30	30	30	30	30	30
Freon 113	5.3 -1.0	2.4	-10.7	4.3	2.2	-2.4	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	4.5 -0.4	-1.9	-9.2	-17.0	4.3	3.5	50 30	30	30	30	30	30
2-Propanol	36.4 1.7	-14.5	-13.8	-16.7	3.4	3.6	50 30	30	30	30	30	30
Methyl iodide	-5.0 -4.0	3.7	2.4	2.5	0.1	0.2	50 30	30	30	30	30	30
Carbon disulfide	-0.2 -5.8	4.7	0.4	2.6	0.6	-2.4	50 30	30	30	30	30	30
Allyl chloride	-4.9 -21.7	-1.9	3.8	10.0	6.6	8.1	50 30	30	30	30	30	30
Methyl acetate	-2.6 6.0	-2.9	-6.9	-3.6	4.1	6.0	50 30	30	30	30	30	30
Methylene Chloride	5.8 -7.7	4.7	0.0	1.4	-3.5	-0.7	50 30	30	30	30	30	30
t-Butyl alcohol	0.7 -1.4	-6.2	3.7	-3.4	-2.0	8.8	50 30	30	30	30	30	30
Acrylonitrile	-7.6 10.9	-7.0	-10.0	-3.2	8.0	9.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	4.7 -3.2	1.2	0.1	1.9	-1.9	-2.8	50 30	30	30	30	30	30
Methyl tertiary butyl ether	1.0 -1.1	-2.4	-3.9	1.4	2.5	2.5	50 30	30	30	30	30	30
n-Hexane	20.9 2.8	-3.4	-31.3 *	5.0	2.8	3.2	50 30	30	30	30	30	30
1,1-Dichloroethane	-5.5 -2.1	0.5	2.0	3.7	0.9	0.5	50 30	30	30	30	30	30
di-Isopropyl ether	1.5 -2.3	-3.0	-1.8	3.1	1.3	1.2	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	2.7 -2.3	4.9	-5.5	1.4	0.2	-1.3	50 30	30	30	30	30	30
Ethyl t-butyl ether	1.4 -1.7	-2.8	0.9	1.7	-0.6	1.0	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	6.2 -3.6	1.3	-1.3	0.7	-1.8	-1.5	50 30	30	30	30	30	30
2,2-Dichloropropane	4.8 -18.0	5.3	4.2	6.4	2.1	-4.8	50 30	30	30	30	30	30
2-Butanone	0.7 8.0	-12.5	-8.2	-7.9	9.3	10.6	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	-4.7 3.0	-11.1	-0.9	3.5	2.0	8.2	50 30	30	30	30	30	30
Methacrylonitrile	-0.8 3.4	-2.6	-9.4	0.4	3.0	5.9	50 30	30	30	30	30	30
Bromochloromethane	-4.6 -0.4	-0.4	-0.2	1.6	2.7	1.4	50 30	30	30	30	30	30
Tetrahydrofuran	9.4 -5.2	-7.0	-5.4	1.2	1.7	5.3	50 30	30	30	30	30	30
Chloroform	3.4 -4.3	3.3	-0.4	1.4	-1.5	-1.9	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-0.9 -2.7	7.5	-5.1	2.1	0.8	-1.7	50 30	30	30	30	30	30
Cyclohexane	6.5 2.7	-0.4	-19.7	5.4	3.2	2.3	50 30	30	30	30	30	30
1,1-Dichloropropene	-6.6 1.1	4.5	-5.7	4.8	1.5	0.5	50 30	30	30	30	30	30
Carbon tetrachloride	-9.2 2.3	2.6	-3.8	4.8	2.9	0.5	50 30	30	30	30	30	30
Isobutyl alcohol	-4.9 0.0	-16.4	3.8	0.2	2.9	14.4	50 30	30	30	30	30	30
Benzene	-3.7 -3.5	1.2	-0.1	3.6	1.7	0.7	50 30	30	30	30	30	30
1,2-Dichloroethane	10.0 -3.2	1.3	-3.9	-0.2	-2.9	-1.1	50 30	30	30	30	30	30
t-Amyl methyl ether	-5.0 -1.3	1.8	-1.2	2.2	1.7	1.7	50 30	30	30	30	30	30
n-Heptane	12.7 -3.3	15.8	-23.3	1.4	-1.9	-1.5	50 30	30	30	30	30	30
n-Butanol	-11.0 1.5	2.0	-2.5	0.1	-2.5	12.3	50 30	30	30	30	30	30
Trichloroethene	2.5 -2.7	2.6	-1.6	0.9	-0.4	-1.3	50 30	30	30	30	30	30
Methylcyclohexane	9.4 4.5	0.4	-28.1	6.2	3.7	3.9	50 30	30	30	30	30	30
1,2-Dichloropropane	-4.4 -0.3	-1.5	-0.8	4.1	0.8	2.0	50 30	30	30	30	30	30
t-Amyl ethyl ether	-4.1 -0.6	-0.5	0.6	4.7	-0.5	0.4	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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
Dibromomethane	-1.7 -0.4	-0.3	-2.1	2.1	1.2	1.1	50 30	30	30	30	30	30
Methyl methacrylate	0.1 -0.6	-1.3	-4.9	1.5	2.3	3.0	50 30	30	30	30	30	30
1,4-Dioxane	-22.1 -2.8	-2.7	14.0	7.5	3.8	2.4	50 30	30	30	30	30	30
Bromodichloromethane	8.1 -2.9	-2.4	-2.7	1.7	-0.6	-1.2	50 30	30	30	30	30	30
2-Nitropropane	-9.9 -4.4	-4.3	-1.0	9.5	2.4	7.8	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-10.1 6.5	-7.4	-0.8	-0.1	5.2	6.7	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-6.6 -0.3	-2.4	-0.9	5.2	2.4	2.5	50 30	30	30	30	30	30
4-Methyl-2-pentanone	4.2 1.4	-12.3	-3.4	-6.4	9.6	6.9	50 30	30	30	30	30	30
Toluene	-4.1 -3.7	2.3	-1.1	3.9	1.2	1.6	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-5.2 -0.4	-1.7	-2.5	3.4	2.4	4.1	50 30	30	30	30	30	30
Ethyl methacrylate	3.5 -2.3	1.0	-5.8	-1.7	1.0	4.3	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-2.3 -3.1	5.1	-2.9	0.8	0.9	1.6	50 30	30	30	30	30	30
Tetrachloroethene	-1.1 -2.0	4.1	-8.3	4.3	2.6	0.5	50 30	30	30	30	30	30
1,3-Dichloropropane	0.4 -2.1	-0.8	-2.1	0.0	2.3	2.3	50 30	30	30	30	30	30
2-Hexanone	-11.5 4.4	-11.8	-4.4	-3.9	16.2	11.0	50 30	30	30	30	30	30
Dibromochloromethane	-0.2 -1.0	-3.7	-3.4	3.9	1.5	2.8	50 30	30	30	30	30	30
1,2-Dibromoethane	-4.7 -0.4	1.5	-1.6	-0.7	3.1	2.9	50 30	30	30	30	30	30
1-Chlorohexane	25.8 -3.6	0.6	-21.4	1.7	-0.7	-2.4	50 30	30	30	30	30	30
Chlorobenzene	-2.2 -3.5	2.8	-3.0	3.0	1.8	1.0	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	-6.7 0.6	-1.2	-1.6	2.5	3.2	3.3	50 30	30	30	30	30	30
Ethylbenzene	-4.4 -5.9	3.1	-2.3	4.8	2.5	2.2	50 30	30	30	30	30	30
m&p-Xylene	-0.4 -4.9	3.0	-5.4	3.1	2.5	2.0	50 30	30	30	30	30	30
o-Xylene	-0.6 -4.0	1.6	-3.4	3.6	1.5	1.3	50 30	30	30	30	30	30
Styrene	-3.2 -3.3	0.3	-3.7	2.8	3.4	3.7	50 30	30	30	30	30	30
Bromoform	-9.2 4.4	-4.1	-5.1	0.5	5.1	8.4	50 30	30	30	30	30	30
Isopropylbenzene	-0.6 -7.4	6.0	-10.4	6.9	3.3	2.3	50 30	30	30	30	30	30
Cyclohexanone	3.2 -27.7	5.7	8.9	7.5	7.0	-4.6	50 30	30	30	30	30	30
Bromobenzene	-5.4 -4.2	4.4	-1.6	3.3	0.6	3.0	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	5.2 -5.3	-1.4	-1.6	0.4	-0.6	3.2	50 30	30	30	30	30	30
1,2,3-Trichloropropane	0.3 -4.3	4.9	-4.1	1.2	-0.8	2.8	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-8.7 1.4	-3.6	-3.2	3.7	2.5	7.8	50 30	30	30	30	30	30
N-Propylbenzene	2.4 -10.2	9.8	-12.0	6.0	2.0	1.9	50 30	30	30	30	30	30
2-Chlorotoluene	-6.5 -3.8	5.6	-5.4	6.3	0.3	3.6	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	0.6 -8.4	7.7	-11.4	6.9	2.4	2.1	50 30	30	30	30	30	30
4-Chlorotoluene	-1.9 -4.1	3.8	-6.1	4.8	1.1	2.2	50 30	30	30	30	30	30
tert-Butylbenzene	0.5 -4.6	4.4	-14.8	9.8	1.7	2.9	50 30	30	30	30	30	30
Pentachloroethane	-15.2 0.4	8.7	-7.0	5.0	2.1	6.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	0.1 -8.1	4.3	-8.8	7.0	2.2	3.4	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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	6.1 -8.9	7.3	-17.3	8.0	3.0	1.8	50 30	30	30	30	30	30
1,3-Dichlorobenzene	2.6 -6.7	2.7	-6.4	5.8	0.1	1.8	50 30	30	30	30	30	30
p-Isopropyltoluene	6.8 -8.0	6.4	-16.3	7.0	2.6	1.5	50 30	30	30	30	30	30
1,4-Dichlorobenzene	2.6 -6.8	5.8	-5.2	1.6	0.7	1.4	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	2.3 -9.1	3.7	-7.5	6.7	2.6	1.3	50 30	30	30	30	30	30
Benzyl chloride	-3.2 -2.6	-2.5	-5.4	3.0	3.4	7.3	50 30	30	30	30	30	30
1,3-Diethylbenzene	0.3 -5.9	7.8	-14.3	8.0	3.2	0.8	50 30	30	30	30	30	30
1,4-Diethylbenzene	6.4 -7.4	6.9	-14.6	6.7	2.3	-0.3	50 30	30	30	30	30	30
n-Butylbenzene	2.4 -3.5	7.8	-18.5	7.3	3.4	1.1	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-1.3 -7.1	6.5	-4.9	3.9	1.4	1.4	50 30	30	30	30	30	30
1,2-Diethylbenzene	5.0 -6.5	9.2	-15.1	6.2	2.1	-0.9	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-8.5 1.1	5.3	-1.8	-1.2	1.7	3.4	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	7.1 -3.2	3.8	-14.0	8.1	3.1	-4.9	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	5.3 -4.8	4.6	-10.6	5.4	3.4	-3.2	50 30	30	30	30	30	30
Hexachlorobutadiene	32.9 -10.2	8.6	-24.4	5.3	1.6	-13.7	50 30	30	30	30	30	30
Naphthalene	1.6 -11.6	5.7	-5.6	5.0	2.4	2.5	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	5.0 -5.8	7.2	-12.0	5.1	1.6	-1.1	50 30	30	30	30	30	30
2-Methylnaphthalene	2.9 -3.4	-0.8	-15.7	1.4	5.0	10.5	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.2 1.1	-0.9	1.1	0.3	-0.6	-0.8	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.: 410-57303-1 Analy Batch No.: 130493

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/25/2021 15:47 Calibration End Date: 05/25/2021 18:01 Calibration ID: 25522

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)	1.0 -0.6	-0.7	1.9	-0.6	-0.8	-0.1	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.6 -0.7	1.0	0.4	0.0	0.0	0.0	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.9 0.9	0.4	-0.2	-1.0	0.0	0.9	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I01.D
Lims ID: IC level7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-May-2021 15:47:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-003
Misc. Info.: IC LEVEL7
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:16:50 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 07:50:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.290	1.293	-0.003	100	1852251	300.0	318.9	
3 Chloromethane	50	1.425	1.421	0.004	100	2599010	300.0	295.9	
6 Vinyl chloride	62	1.502	1.502	0.000	99	2643584	300.0	307.0	
7 Butadiene	39	1.515	1.518	-0.003	92	2507656	300.0	308.4	
8 Bromomethane	94	1.720	1.726	-0.006	90	1677718	300.0	292.0	
9 Chloroethane	64	1.797	1.803	-0.006	100	1582544	300.0	296.3	
10 Dichlorofluoromethane	67	1.929	1.932	-0.004	98	3397169	300.0	294.5	
11 Trichlorofluoromethane	101	1.977	1.980	-0.003	99	2574807	300.0	298.2	
12 Pentane	43	2.034	2.038	-0.004	96	3324241	300.0	299.5	
14 Ethanol	45	2.089	2.082	0.007	97	835516	7500.2	7498.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.204	2.208	-0.004	94	2356541	300.0	308.0	
16 Acrolein	56	2.278	2.281	-0.003	99	7391352	3000.2	3049.0	
17 1,1-Dichloroethene	96	2.384	2.387	-0.003	98	1856057	300.0	284.0	
19 112TCTFE	101	2.391	2.394	-0.003	95	1679173	300.0	297.0	
18 Acetone	58	2.403	2.403	0.000	100	586569	600.0	597.5	
21 Isopropyl alcohol	45	2.519	2.519	0.000	99	1100687	1500.0	1524.9	
22 Iodomethane	142	2.525	2.528	-0.003	97	3455548	300.0	288.1	
23 Carbon disulfide	76	2.573	2.577	-0.004	99	6550960	300.0	282.7	
24 3-Chloro-1-propene	41	2.673	2.676	-0.003	93	2653143	300.0	235.0	
25 Methyl acetate	43	2.689	2.695	-0.006	98	2571749	300.0	317.9	
* 27 t-Butyl alcohol-d10 (IS)	65	2.811	2.808	0.003	40	326163	250.0	250.0	M
26 Methylene Chloride	84	2.811	2.814	-0.003	93	2222503	300.0	276.8	
28 2-Methyl-2-propanol	59	2.885	2.881	0.004	99	2162546	1500.0	1478.3	
29 Acrylonitrile	53	3.000	3.003	-0.003	98	3233965	750.0	831.7	
30 trans-1,2-Dichloroethene	96	3.032	3.035	-0.003	97	2063700	300.0	290.4	
31 Methyl tert-butyl ether	73	3.042	3.039	0.003	97	7341803	300.0	296.6	
32 Hexane	57	3.292	3.295	-0.003	93	2469649	300.0	308.4	
34 1,1-Dichloroethane	63	3.421	3.424	-0.003	97	3735084	300.0	293.6	
35 Isopropyl ether	45	3.498	3.494	0.004	93	7234152	300.0	293.1	
36 2-Chloro-1,3-butadiene	53	3.511	3.510	0.000	92	3415837	300.0	293.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.844	3.844	0.000	98	7153539	300.0	294.9	
40 cis-1,2-Dichloroethene	96	3.973	3.972	0.001	87	2230323	300.0	289.1	
39 2,2-Dichloropropane	77	3.976	3.976	0.000	91	1321821	300.0	245.9	
41 2-Butanone (MEK)	43	3.989	3.992	-0.003	100	3734987	600.0	647.9	
42 Propionitrile	54	4.043	4.043	0.000	99	2588685	1500.0	1545.1	
43 Methacrylonitrile	67	4.197	4.194	0.003	94	3682362	750.0	775.6	
44 Chlorobromomethane	128	4.204	4.204	0.000	96	1099013	300.0	298.8	
45 Tetrahydrofuran	71	4.255	4.255	0.000	89	2504865	1500.0	1422.5	
46 Chloroform	83	4.284	4.284	0.000	95	3555399	300.0	287.0	
$ 48 Dibromofluoromethane (Surr)	113	4.441	4.438	0.003	94	295645	50.0	50.5	
49 1,1,1-Trichloroethane	97	4.470	4.470	0.000	99	2991900	300.0	291.8	
50 Cyclohexane	56	4.537	4.534	0.003	92	3623247	300.0	308.0	
51 1,1-Dichloropropene	75	4.630	4.634	-0.004	96	2887035	300.0	303.2	
52 Carbon tetrachloride	117	4.637	4.634	0.003	99	2557156	300.0	306.9	
54 Isobutyl alcohol	41	4.759	4.759	0.000	94	1824394	3750.0	3750.1	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.772	0.003	97	76880	50.0	49.7	
56 Benzene	78	4.839	4.839	0.000	97	8655311	300.0	289.6	
57 1,2-Dichloroethane	62	4.852	4.852	0.000	96	3001573	300.0	290.3	
58 Tert-amyl methyl ether	73	4.961	4.961	0.000	98	7061671	300.0	296.2	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	98	1283706	50.0	50.0	
60 n-Heptane	43	5.125	5.124	0.001	92	2117869	300.0	290.2	
61 n-Butanol	56	5.439	5.436	0.003	90	1588485	3750.0	3807.6	
62 Trichloroethene	95	5.494	5.494	0.000	99	2198971	300.0	291.9	
63 Methylcyclohexane	83	5.702	5.699	0.003	93	2990794	300.0	313.4	
64 1,2-Dichloropropane	63	5.721	5.721	0.000	97	2441727	300.0	299.1	
66 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	93	3524091	300.0	298.2	
67 Dibromomethane	93	5.840	5.840	0.000	97	1477824	300.0	298.8	
68 Methyl methacrylate	69	5.863	5.863	0.000	93	2492885	300.0	298.2	
69 1,4-Dioxane	88	5.869	5.869	0.000	94	449549	3750.0	3644.7	M
70 Dichlorobromomethane	83	6.010	6.013	-0.003	100	2848653	300.0	291.4	
S 73 1,2-Dichloroethene, Total	100				0			579.5	
71 2-Nitropropane	41	6.261	6.257	0.004	98	5175936	1500.0	1434.5	
72 2-Chloroethyl vinyl ether	63	6.347	6.344	0.003	92	1987106	300.0	319.6	
74 cis-1,3-Dichloropropene	75	6.492	6.491	0.001	95	3903625	300.0	299.1	
76 4-Methyl-2-pentanone (MIBK)	43	6.671	6.671	0.000	97	7833919	600.0	608.4	
$ 77 Toluene-d8 (Surr)	98	6.784	6.783	0.001	93	1274279	50.0	49.6	
78 Toluene	92	6.857	6.854	0.003	98	5561821	300.0	289.0	
79 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	95	3737773	300.0	298.7	
80 Ethyl methacrylate	69	7.220	7.220	0.000	91	4242272	300.0	293.2	
81 1,1,2-Trichloroethane	97	7.294	7.294	0.000	91	2181210	300.0	290.7	
84 Tetrachloroethene	166	7.441	7.441	0.000	98	2177409	300.0	294.0	
85 1,3-Dichloropropane	76	7.464	7.464	0.000	93	3795668	300.0	293.8	
88 2-Hexanone	43	7.567	7.563	0.004	96	6067028	600.0	626.2	
89 Chlorodibromomethane	129	7.689	7.688	0.000	90	2379323	300.0	297.1	
90 Ethylene Dibromide	107	7.791	7.794	-0.003	99	2422977	300.0	298.7	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	86	980172	50.0	50.0	
93 1-Chlorohexane	91	8.253	8.250	0.003	96	2728043	300.0	289.1	
94 Chlorobenzene	112	8.256	8.256	0.000	93	5938462	300.0	289.4	
95 1,1,1,2-Tetrachloroethane	131	8.333	8.330	0.003	97	2116215	300.0	301.7	
96 Ethylbenzene	91	8.362	8.362	0.000	98	9888774	300.0	282.3	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	95	7721957	600.0	570.7	e
98 o-Xylene	106	8.802	8.799	0.003	96	3931752	300.0	288.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Styrene	104	8.815	8.812	0.003	94	6911581	300.0	290.1	
100 Bromoform	173	8.956	8.956	0.000	97	1981499	300.0	313.2	
102 Isopropylbenzene	105	9.107	9.107	0.000	97	8801476	300.0	277.7	
103 Cyclohexanone	55	9.171	9.171	0.000	93	1822886	3750.0	2712.2	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	88	501965	50.0	50.5	
105 Bromobenzene	156	9.338	9.338	0.000	96	2551731	300.0	287.3	
106 1,1,2,2-Tetrachloroethane	83	9.341	9.338	0.003	93	3748630	300.0	284.2	
107 1,2,3-Trichloropropane	110	9.373	9.370	0.003	85	1101175	300.0	287.2	
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	96	3409466	750.0	760.9	
109 N-Propylbenzene	91	9.434	9.431	0.003	98	10195092	300.0	269.5	
111 2-Chlorotoluene	126	9.495	9.492	0.003	96	2310319	300.0	288.5	
112 1,3,5-Trimethylbenzene	105	9.569	9.566	0.003	95	7437513	300.0	274.9	
113 4-Chlorotoluene	126	9.579	9.575	0.004	98	2445240	300.0	287.8	
114 tert-Butylbenzene	134	9.813	9.809	0.004	93	1598891	300.0	286.3	
115 Pentachloroethane	167	9.822	9.822	0.000	81	1561885	300.0	301.3	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	98	7882568	300.0	275.6	
117 sec-Butylbenzene	105	9.973	9.973	0.000	95	7806161	300.0	273.3	
118 1,3-Dichlorobenzene	146	10.050	10.047	0.003	98	4518069	300.0	279.8	
S 123 1,3-Dichloropropene, Total	100				0			597.9	
119 4-Isopropyltoluene	119	10.079	10.079	0.000	96	7035964	300.0	276.1	
* 120 1,4-Dichlorobenzene-d4	152	10.098	10.095	0.003	92	535712	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	94	4682020	300.0	279.5	
122 1,2,3-Trimethylbenzene	105	10.153	10.153	0.000	98	8111942	300.0	272.6	
124 Benzyl chloride	91	10.211	10.211	0.000	99	8120868	300.0	292.2	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	94	4396386	300.0	282.2	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	93	4501905	300.0	277.8	M
127 n-Butylbenzene	92	10.371	10.368	0.003	98	3522471	300.0	289.4	
128 1,2-Dichlorobenzene	146	10.381	10.377	0.004	97	4489050	300.0	278.8	
129 o-diethylbenzene	119	10.435	10.435	0.000	96	3785304	300.0	280.6	
130 1,2-Dibromo-3-Chloropropane	75	10.913	10.913	0.000	91	984181	300.0	303.2	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	94	2887619	300.0	290.5	
S 132 Xylenes, Total	106				0			858.8	
136 1,2,3-Trichlorobenzene	180	11.472	11.469	0.004	95	2816293	300.0	285.5	
134 Hexachlorobutadiene	225	11.581	11.581	0.000	97	1015875	300.0	269.3	
135 Naphthalene	128	11.632	11.632	0.000	98	10439600	300.0	265.1	
131 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	98	2718584	300.0	282.5	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	92	5421319	300.0	289.9	
S 155 Total Diethylbenzene	1				0			840.6	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSV_V_ETOH_00012	Amount Added:	30.00	Units: uL	
MSV_VCYC_00006	Amount Added:	30.00	Units: uL	
MSV_CCV_2CEVE_00002	Amount Added:	15.00	Units: uL	
MSV_CCV_Penta_00001	Amount Added:	15.00	Units: uL	
MSV_CCV_VOC#3_00002	Amount Added:	12.00	Units: uL	
MSV_CCV_VOC#1_00002	Amount Added:	15.00	Units: uL	
MSV_CCV_GASES_00003	Amount Added:	7.50	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:16:51 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I01.D

Injection Date: 25-May-2021 15:47:30 Instrument ID: 9137 Operator ID: kas02648

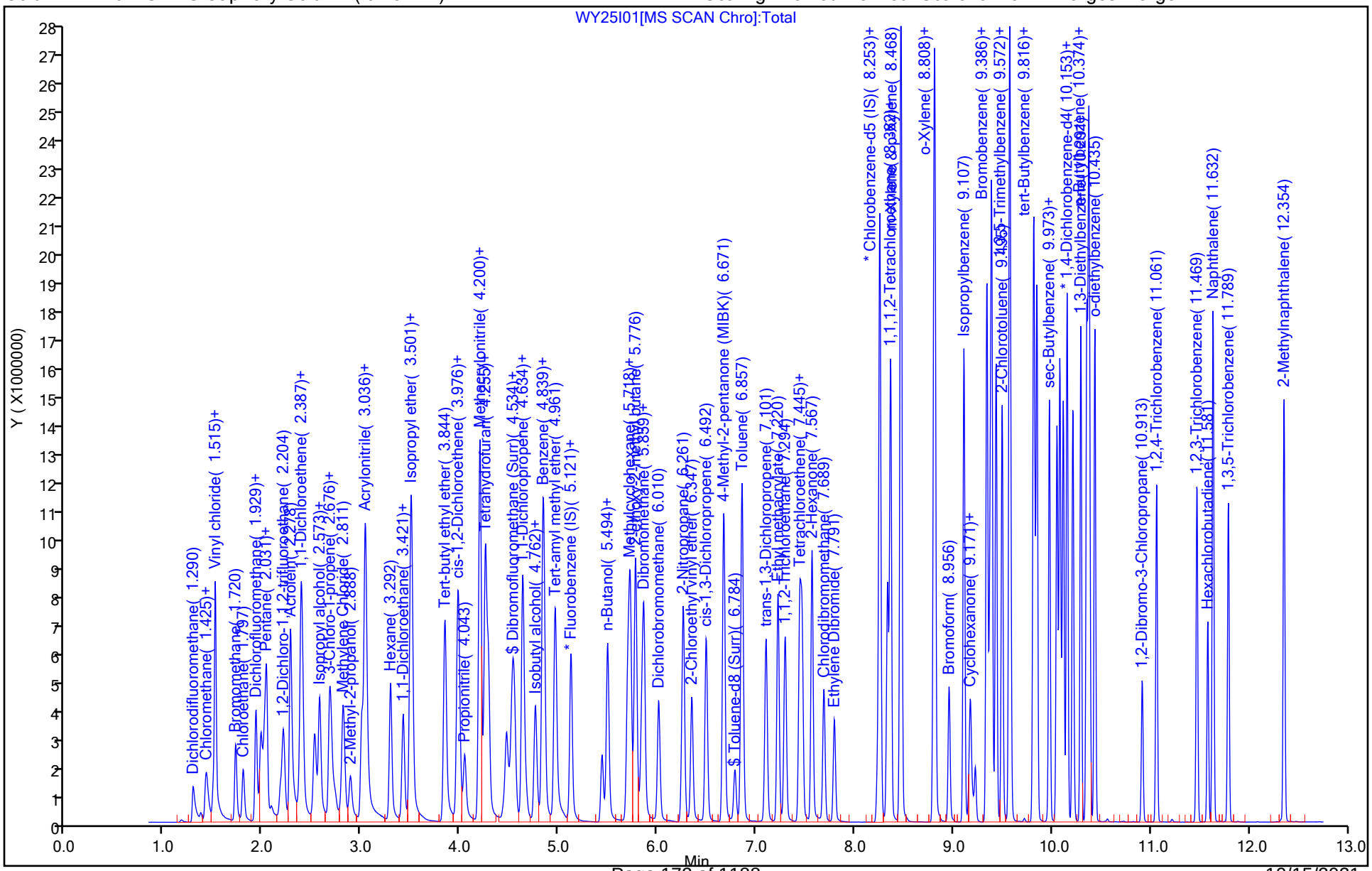
Lims ID: IC level7 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9137 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

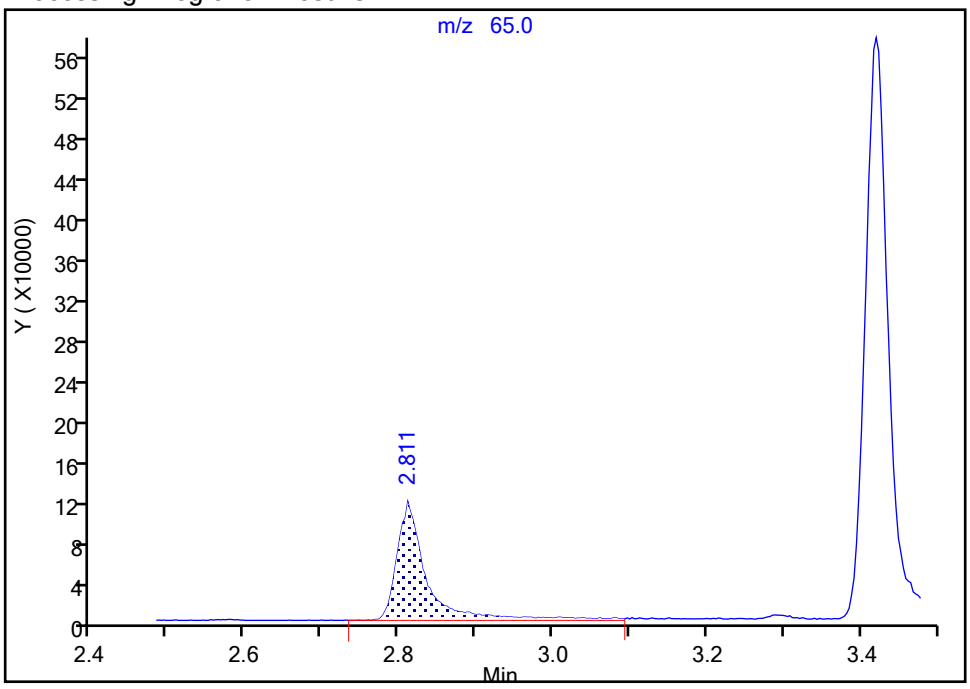
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Injection Date: 25-May-2021 15:47:30 Instrument ID: 9137
Lims ID: IC level7
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

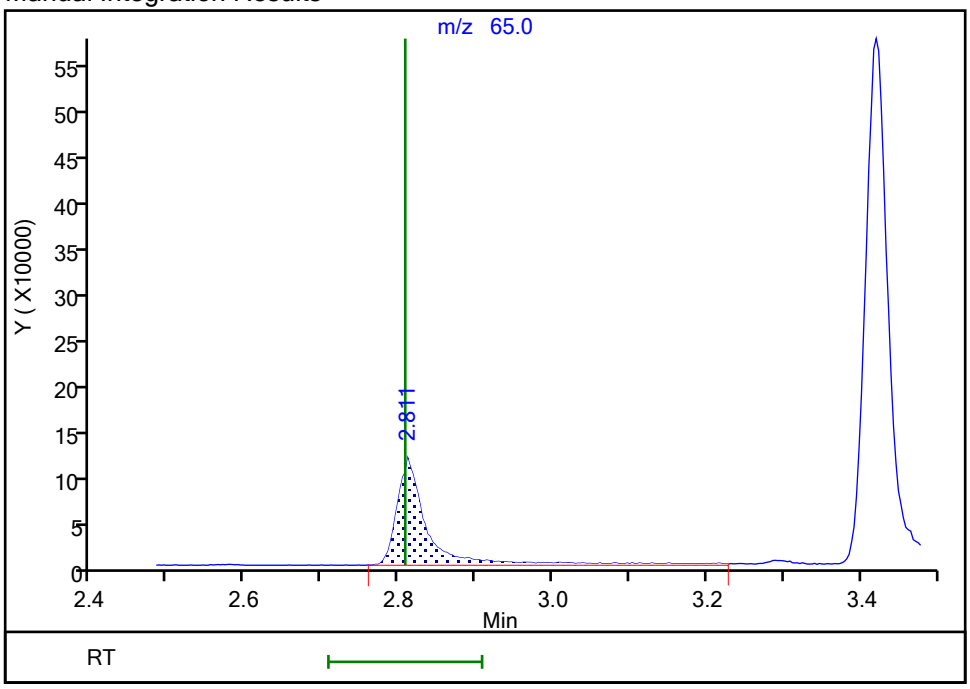
Processing Integration Results

RT: 2.81
Area: 312251
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 326163
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 07:53:02
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

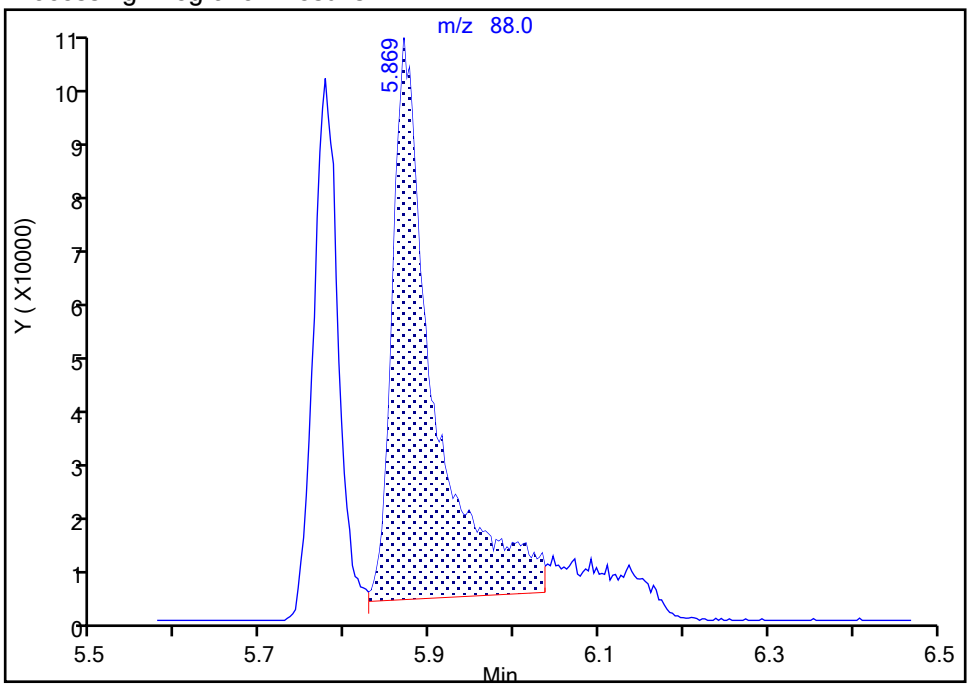
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Injection Date: 25-May-2021 15:47:30 Instrument ID: 9137
Lims ID: IC level7
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

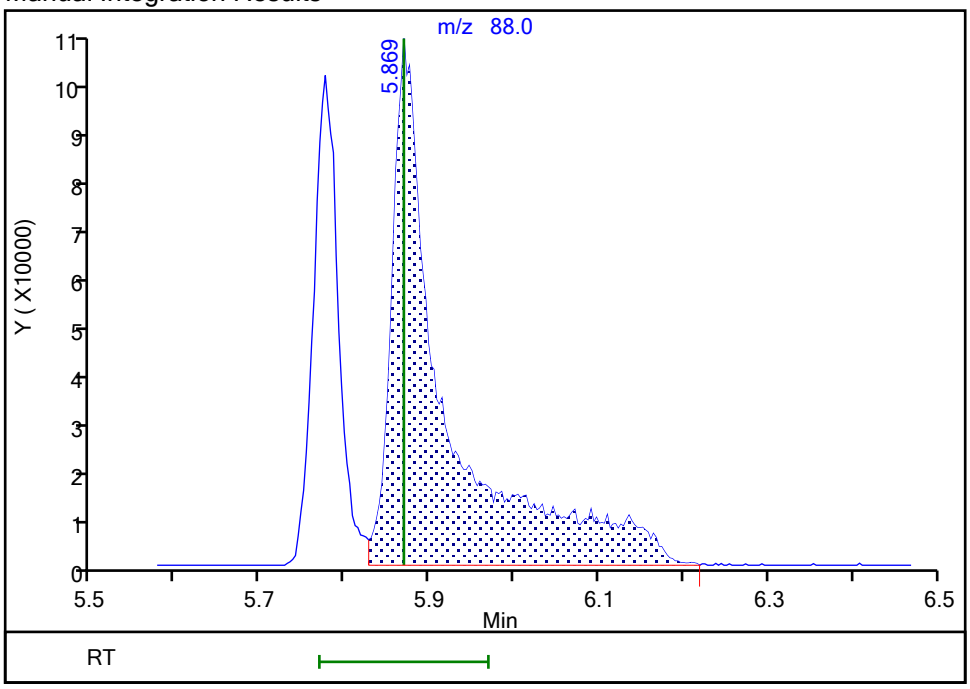
Processing Integration Results

RT: 5.87
Area: 327894
Amount: 3762.0368
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 449549
Amount: 3644.7107
Amount Units: ug/l



Reviewer: papel, 26-May-2021 07:59:28
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

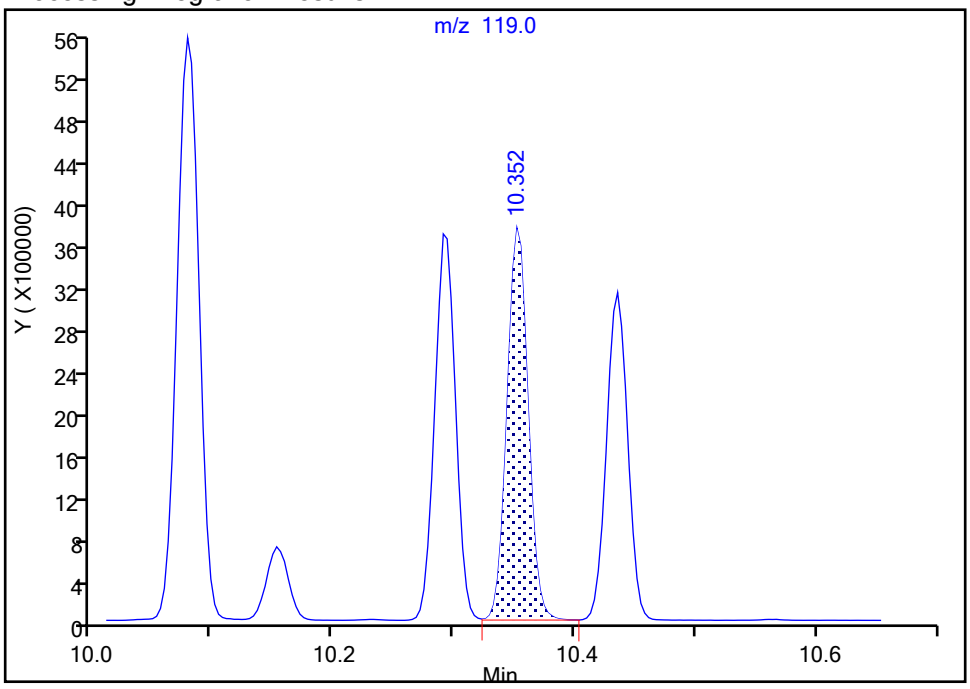
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Injection Date: 25-May-2021 15:47:30 Instrument ID: 9137
Lims ID: IC level7
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

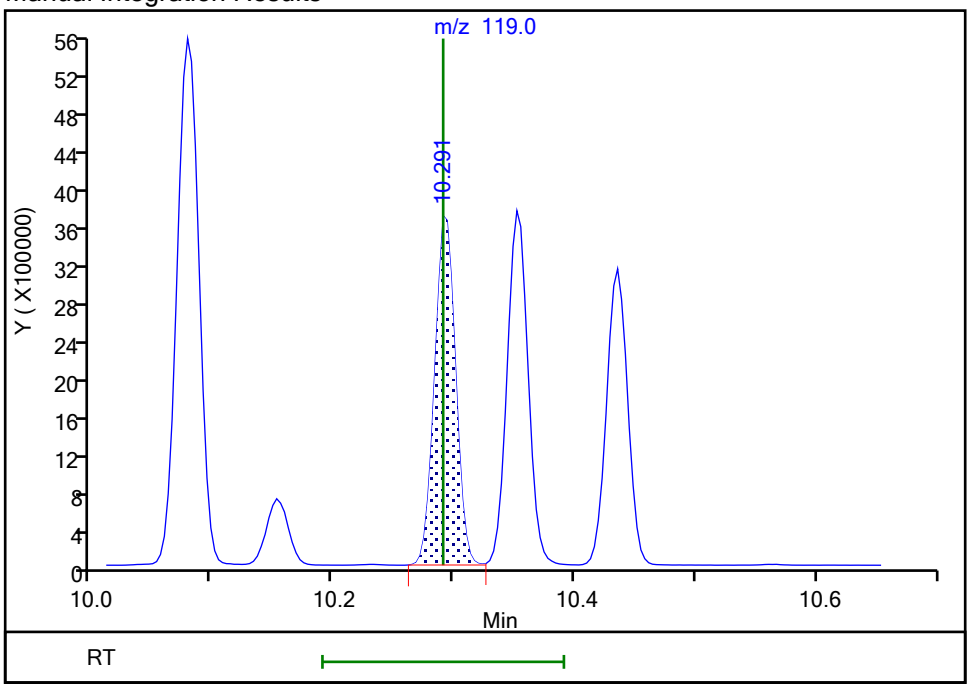
Processing Integration Results

RT: 10.35
Area: 4493901
Amount: 280.4093
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 4396386
Amount: 282.2302
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:35:37
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

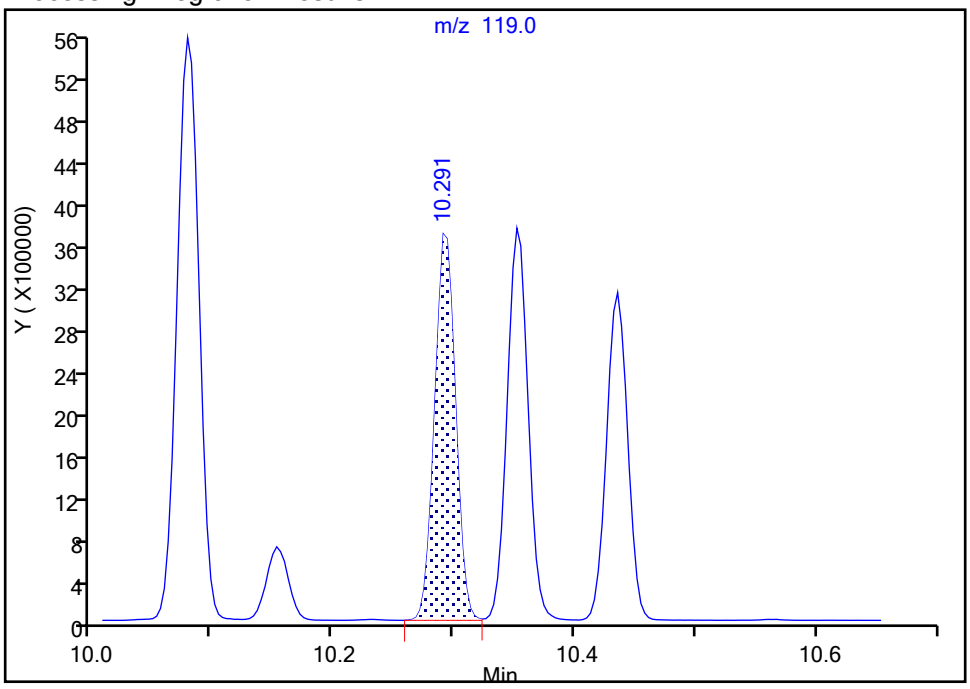
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Injection Date: 25-May-2021 15:47:30 Instrument ID: 9137
Lims ID: IC level7
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

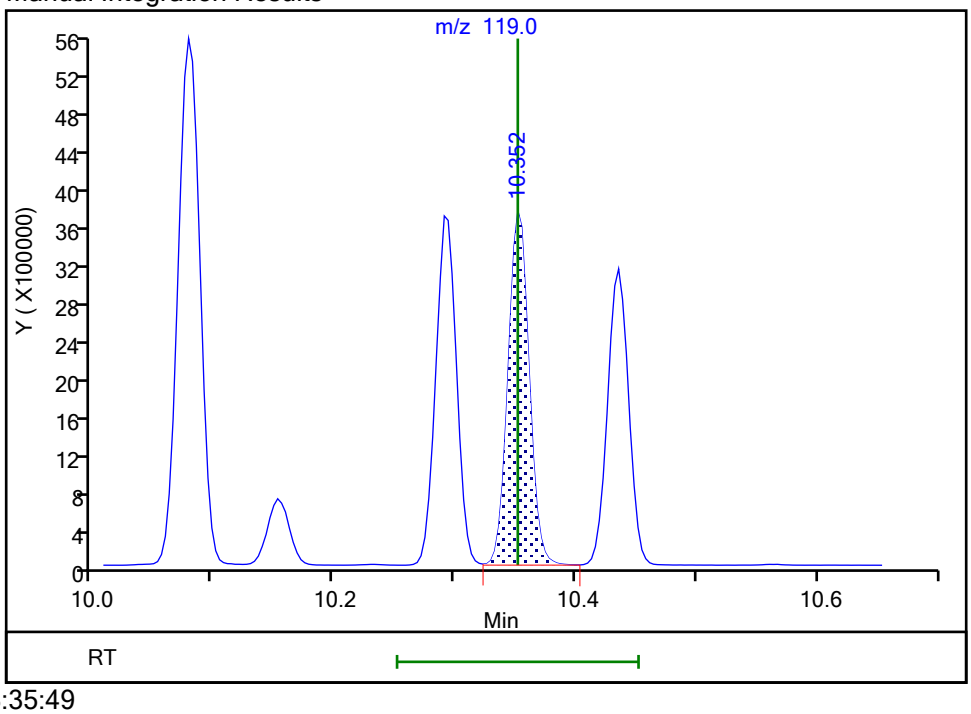
Processing Integration Results

RT: 10.29
Area: 4401957
Amount: 281.3064
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 4501905
Amount: 277.7919
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:35:49
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I02.D
Lims ID: IC std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-May-2021 16:09:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-004
Misc. Info.: IC STD6
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:16:55 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 07:54:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.293	1.293	0.000	100	610929	100.0	106.1	
3 Chloromethane	50	1.425	1.421	0.004	100	904274	100.0	103.8	
6 Vinyl chloride	62	1.502	1.502	0.000	99	889571	100.0	104.2	
7 Butadiene	39	1.518	1.518	0.000	93	825676	100.0	102.4	
8 Bromomethane	94	1.726	1.726	0.000	90	580986	100.0	102.0	
9 Chloroethane	64	1.800	1.803	-0.003	100	546667	100.0	103.2	
10 Dichlorofluoromethane	67	1.928	1.932	-0.004	98	1193159	100.0	104.3	
11 Trichlorofluoromethane	101	1.980	1.980	0.000	99	923839	100.0	107.9	
12 Pentane	43	2.034	2.038	-0.004	98	1155468	100.0	105.0	
14 Ethanol	45	2.086	2.082	0.004	92	260254	2500.1	2522.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.204	2.208	-0.004	94	794747	100.0	104.8	
16 Acrolein	56	2.281	2.281	0.000	99	2465300	1000.1	1109.3	
17 1,1-Dichloroethene	96	2.391	2.387	0.004	98	615973	100.0	95.1	
19 112TCTFE	101	2.394	2.394	0.000	90	547053	100.0	97.6	
18 Acetone	58	2.403	2.403	0.000	100	187706	200.0	207.0	
21 Isopropyl alcohol	45	2.516	2.519	-0.003	99	336115	500.0	518.2	
22 Iodomethane	142	2.525	2.528	-0.003	97	1191934	100.0	100.2	
23 Carbon disulfide	76	2.577	2.577	0.000	99	2242429	100.0	97.6	
24 3-Chloro-1-propene	41	2.676	2.676	0.000	92	1210070	100.0	108.1	
25 Methyl acetate	43	2.695	2.695	0.000	98	850377	100.0	106.0	
* 27 t-Butyl alcohol-d10 (IS)	65	2.808	2.808	0.000	40	299023	250.0	250.0	M
26 Methylene Chloride	84	2.814	2.814	0.000	93	790285	100.0	99.3	
28 2-Methyl-2-propanol	59	2.885	2.881	0.004	100	729258	500.0	543.8	
29 Acrylonitrile	53	3.000	3.003	-0.003	99	1050046	250.0	272.4	
30 trans-1,2-Dichloroethene	96	3.036	3.035	0.001	97	684467	100.0	97.2	
31 Methyl tert-butyl ether	73	3.039	3.039	0.000	96	2514775	100.0	102.5	
32 Hexane	57	3.292	3.295	-0.003	93	819189	100.0	103.2	
34 1,1-Dichloroethane	63	3.421	3.424	-0.003	97	1266950	100.0	100.5	
35 Isopropyl ether	45	3.494	3.494	0.000	94	2476415	100.0	101.2	
36 2-Chloro-1,3-butadiene	53	3.510	3.510	0.000	92	1140000	100.0	98.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.844	3.844	0.000	98	2429883	100.0	101.0	
40 cis-1,2-Dichloroethene	96	3.973	3.972	0.001	88	753113	100.0	98.5	
39 2,2-Dichloropropane	77	3.979	3.976	0.003	77	507347	100.0	95.2	
41 2-Butanone (MEK)	43	3.989	3.992	-0.003	100	1263953	200.0	221.2	
42 Propionitrile	54	4.046	4.043	0.003	100	831208	500.0	541.2	
43 Methacrylonitrile	67	4.194	4.194	0.000	93	1246192	250.0	264.7	
44 Chlorobromomethane	128	4.204	4.204	0.000	96	369579	100.0	101.4	
45 Tetrahydrofuran	71	4.255	4.255	0.000	89	849740	500.0	526.4	
46 Chloroform	83	4.284	4.284	0.000	95	1204746	100.0	98.1	
$ 48 Dibromofluoromethane (Surr)	113	4.441	4.438	0.003	94	287700	50.0	49.6	
49 1,1,1-Trichloroethane	97	4.470	4.470	0.000	99	999520	100.0	98.3	
50 Cyclohexane	56	4.534	4.534	0.000	92	1193827	100.0	102.3	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	95	948415	100.0	100.5	
52 Carbon tetrachloride	117	4.634	4.634	0.000	85	830141	100.0	100.5	
54 Isobutyl alcohol	41	4.756	4.759	-0.003	96	638014	1250.0	1430.5	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.772	0.003	97	76593	50.0	49.9	
56 Benzene	78	4.836	4.839	-0.003	97	2982746	100.0	100.7	
57 1,2-Dichloroethane	62	4.852	4.852	0.000	96	1013723	100.0	98.9	
58 Tert-amyl methyl ether	73	4.961	4.961	0.000	98	2404362	100.0	101.7	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	99	1272662	50.0	50.0	
60 n-Heptane	43	5.121	5.124	-0.003	93	712738	100.0	98.5	
61 n-Butanol	56	5.436	5.436	0.000	89	536976	1250.0	1403.9	
62 Trichloroethene	95	5.494	5.494	0.000	99	737078	100.0	98.7	
63 Methylcyclohexane	83	5.699	5.699	0.000	93	983435	100.0	103.9	
64 1,2-Dichloropropane	63	5.725	5.721	0.004	97	825555	100.0	102.0	
66 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	97	1176678	100.0	100.4	
67 Dibromomethane	93	5.840	5.840	0.000	96	495950	100.0	101.1	
68 Methyl methacrylate	69	5.859	5.863	-0.004	92	853499	100.0	103.0	
69 1,4-Dioxane	88	5.866	5.869	-0.003	34	144719	1250.0	1279.8	M
70 Dichlorobromomethane	83	6.013	6.013	0.000	99	957955	100.0	98.8	
S 73 1,2-Dichloroethene, Total	100				0			195.6	
71 2-Nitropropane	41	6.257	6.257	0.000	97	1782338	500.0	538.8	
72 2-Chloroethyl vinyl ether	63	6.344	6.344	0.000	92	657619	100.0	106.7	
74 cis-1,3-Dichloropropene	75	6.495	6.491	0.004	95	1326287	100.0	102.5	
76 4-Methyl-2-pentanone (MIBK)	43	6.668	6.671	-0.003	97	2729370	200.0	213.8	
$ 77 Toluene-d8 (Surr)	98	6.784	6.783	0.001	94	1255125	50.0	50.0	
78 Toluene	92	6.854	6.854	0.000	98	1911034	100.0	101.6	
79 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	94	1273553	100.0	104.1	
80 Ethyl methacrylate	69	7.217	7.220	-0.003	90	1475692	100.0	104.3	
81 1,1,2-Trichloroethane	97	7.291	7.294	-0.003	91	745501	100.0	101.6	
84 Tetrachloroethene	166	7.441	7.441	0.000	98	727699	100.0	100.5	
85 1,3-Dichloropropane	76	7.464	7.464	0.000	93	1292149	100.0	102.3	
88 2-Hexanone	43	7.563	7.563	0.000	96	2103793	200.0	222.1	
89 Chlorodibromomethane	129	7.685	7.688	-0.003	91	805131	100.0	102.8	
90 Ethylene Dibromide	107	7.791	7.794	-0.003	99	816326	100.0	102.9	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	87	958462	50.0	50.0	
93 1-Chlorohexane	91	8.250	8.250	0.000	96	901012	100.0	97.6	
94 Chlorobenzene	112	8.256	8.256	0.000	93	2027248	100.0	101.0	
95 1,1,1,2-Tetrachloroethane	131	8.330	8.330	0.000	97	708317	100.0	103.3	
96 Ethylbenzene	91	8.362	8.362	0.000	98	3499634	100.0	102.2	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	99	2700243	200.0	204.1	
98 o-Xylene	106	8.802	8.799	0.003	97	1351493	100.0	101.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Styrene	104	8.812	8.812	0.000	95	2415799	100.0	103.7	
100 Bromoform	173	8.956	8.956	0.000	97	670401	100.0	108.4	
102 Isopropylbenzene	105	9.107	9.107	0.000	96	3170367	100.0	102.3	
103 Cyclohexanone	55	9.171	9.171	0.000	94	734897	1250.0	1192.7	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	89	490590	50.0	50.4	
105 Bromobenzene	156	9.338	9.338	0.000	96	883892	100.0	103.0	
106 1,1,2,2-Tetrachloroethane	83	9.338	9.338	0.000	94	1315889	100.0	103.2	
107 1,2,3-Trichloropropane	110	9.370	9.370	0.000	85	380818	100.0	102.8	
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	95	1167575	250.0	269.6	
109 N-Propylbenzene	91	9.431	9.431	0.000	99	3726765	100.0	101.9	
111 2-Chlorotoluene	126	9.492	9.492	0.000	96	801866	100.0	103.6	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	95	2670015	100.0	102.1	
113 4-Chlorotoluene	126	9.575	9.575	0.000	99	839173	100.0	102.2	
114 tert-Butylbenzene	134	9.813	9.809	0.004	93	555332	100.0	102.9	
115 Pentachloroethane	167	9.822	9.822	0.000	86	531325	100.0	106.0	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	98	2857546	100.0	103.4	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	2809286	100.0	101.8	
118 1,3-Dichlorobenzene	146	10.050	10.047	0.003	98	1589682	100.0	101.8	
S 123 1,3-Dichloropropene, Total	100				0			206.6	
119 4-Isopropyltoluene	119	10.079	10.079	0.000	97	2500845	100.0	101.5	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	95	517803	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	95	1641920	100.0	101.4	
122 1,2,3-Trimethylbenzene	105	10.153	10.153	0.000	99	2914527	100.0	101.3	
124 Benzyl chloride	91	10.211	10.211	0.000	99	2881258	100.0	107.3	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	95	1518045	100.0	100.8	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	94	1561553	100.0	99.7	M
127 n-Butylbenzene	92	10.368	10.368	0.000	97	1188965	100.0	101.1	
128 1,2-Dichlorobenzene	146	10.381	10.377	0.004	98	1577684	100.0	101.4	
129 o-diethylbenzene	119	10.432	10.435	-0.003	96	1292577	100.0	99.1	
130 1,2-Dibromo-3-Chloropropane	75	10.913	10.913	0.000	86	324287	100.0	103.4	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	94	914018	100.0	95.1	
S 132 Xylenes, Total	106				0			305.4	
136 1,2,3-Trichlorobenzene	180	11.469	11.469	0.001	96	922636	100.0	96.8	
134 Hexachlorobutadiene	225	11.578	11.581	-0.003	97	314680	100.0	86.3	
135 Naphthalene	128	11.632	11.632	0.000	97	3902297	100.0	102.5	
131 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	98	919469	100.0	98.9	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	94	1997126	100.0	110.5	
S 155 Total Diethylbenzene	1				0			299.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_V_ETOH_00012	Amount Added:	10.00	Units: uL	
MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_CCV_2CEVE_00002	Amount Added:	5.00	Units: uL	
MSV_CCV_Penta_00001	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00002	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#1_00002	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00003	Amount Added:	2.50	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:16:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I02.D

Injection Date: 25-May-2021 16:09:30 Instrument ID: 9137 Operator ID: kas02648

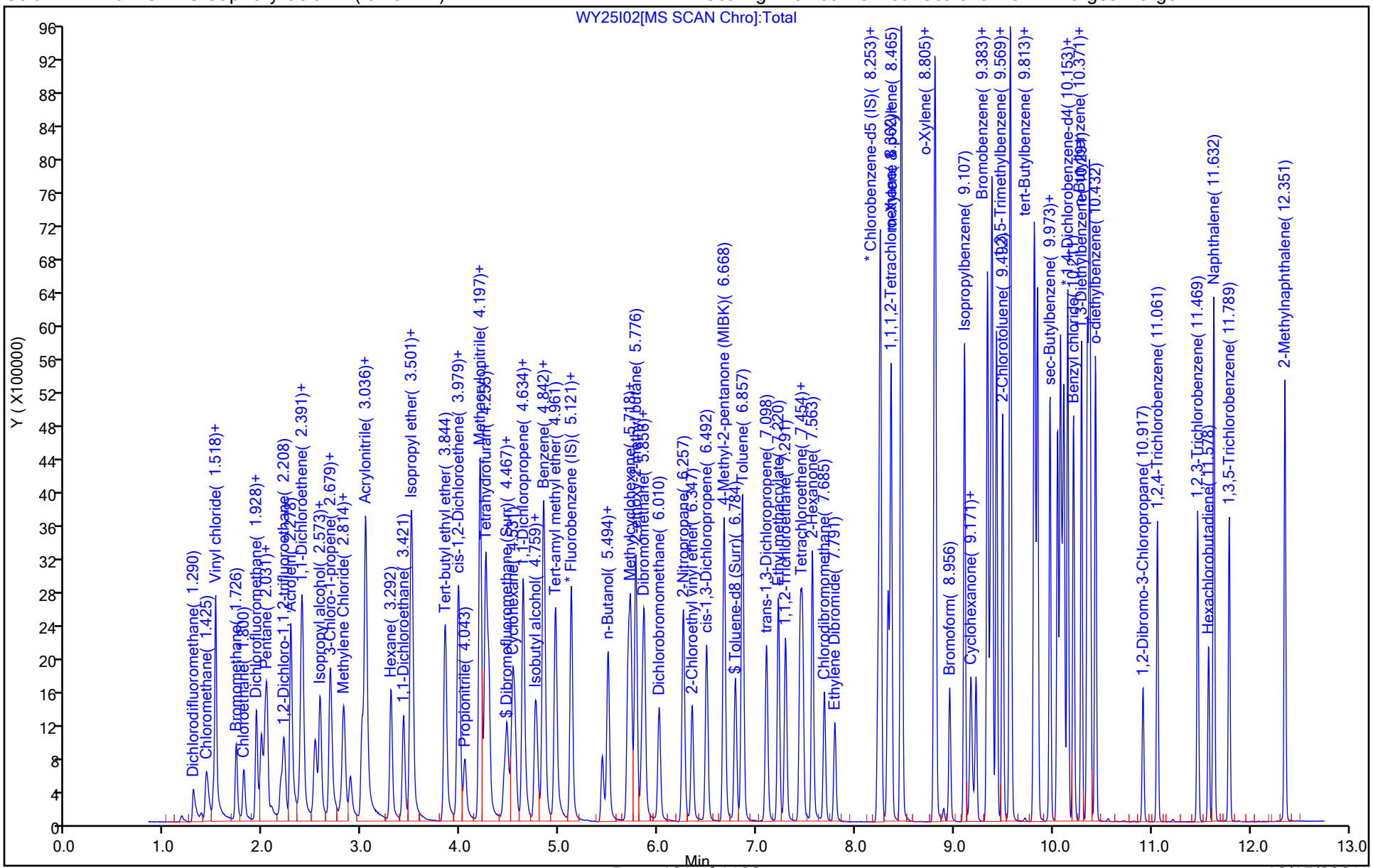
Lims ID: IC std6 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_9137 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

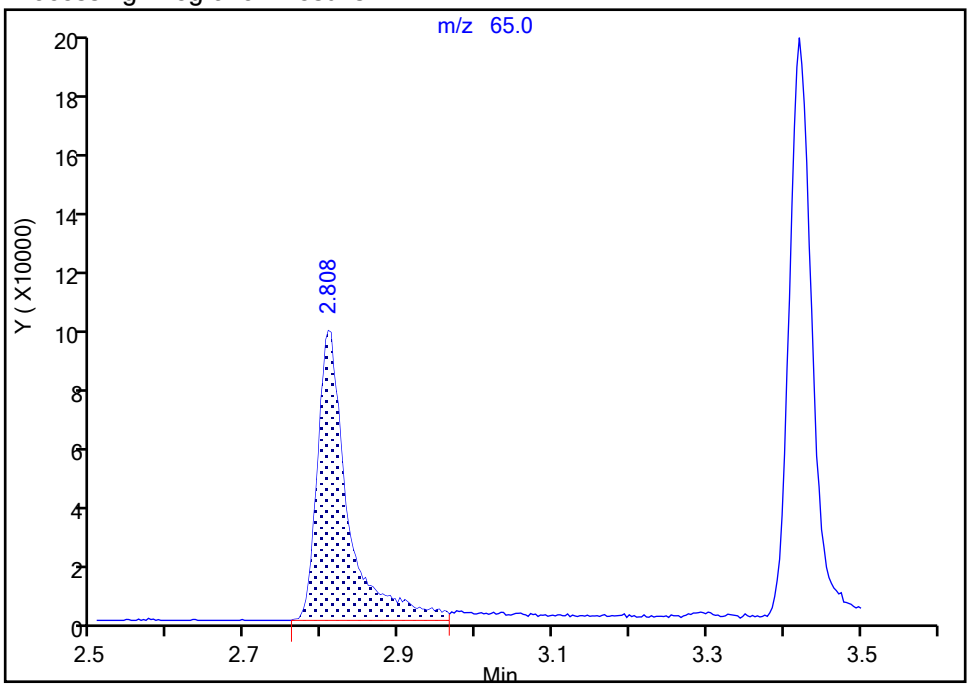
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Injection Date: 25-May-2021 16:09:30 Instrument ID: 9137
Lims ID: IC std6
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

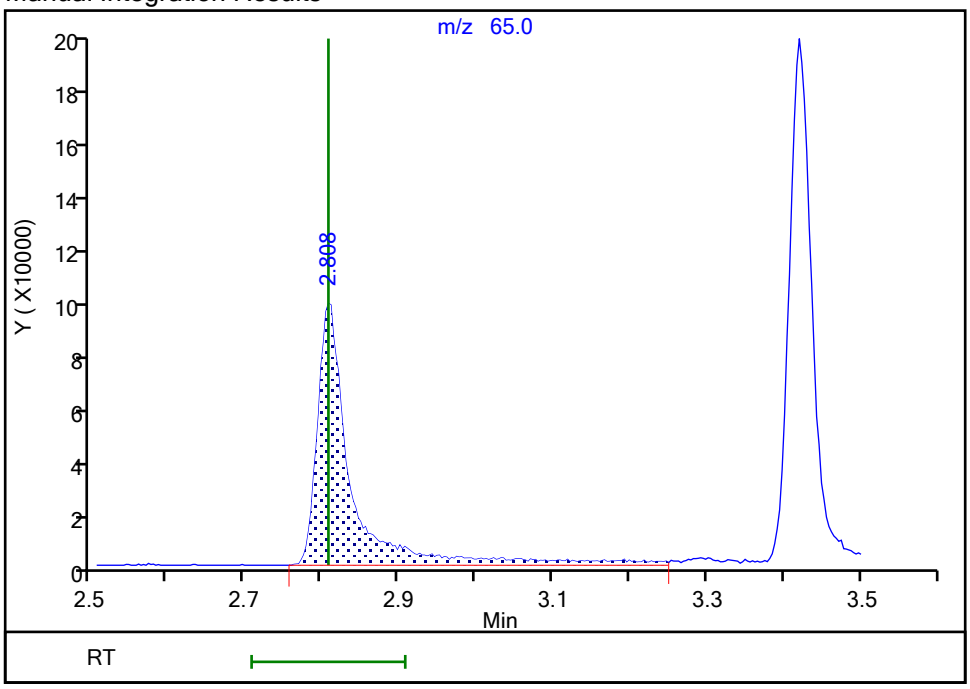
Processing Integration Results

RT: 2.81
Area: 267367
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 299023
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 07:57:29
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

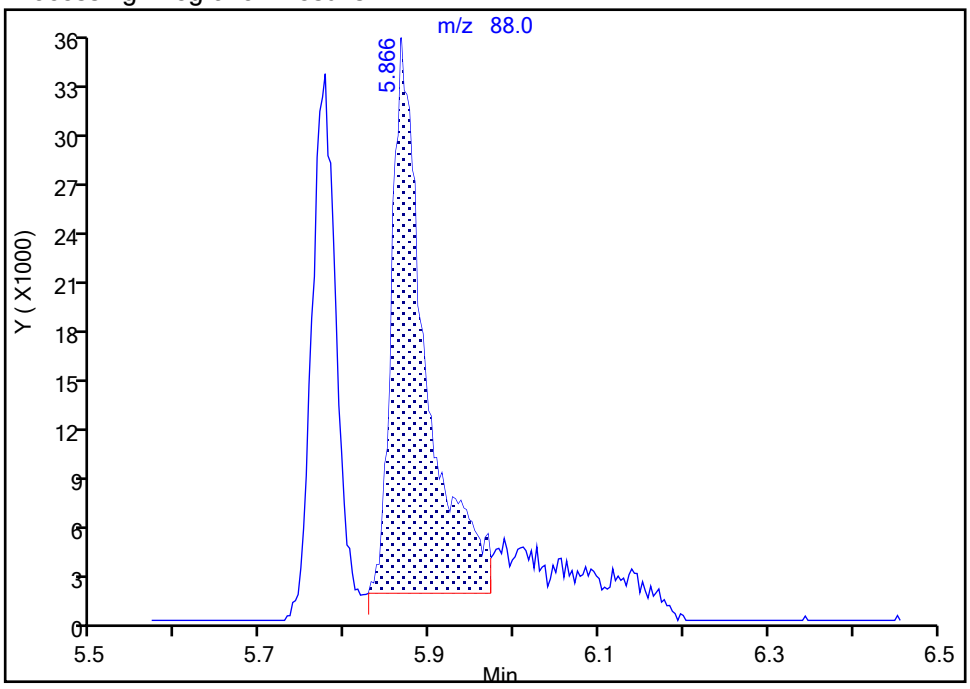
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Injection Date: 25-May-2021 16:09:30 Instrument ID: 9137
Lims ID: IC std6
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

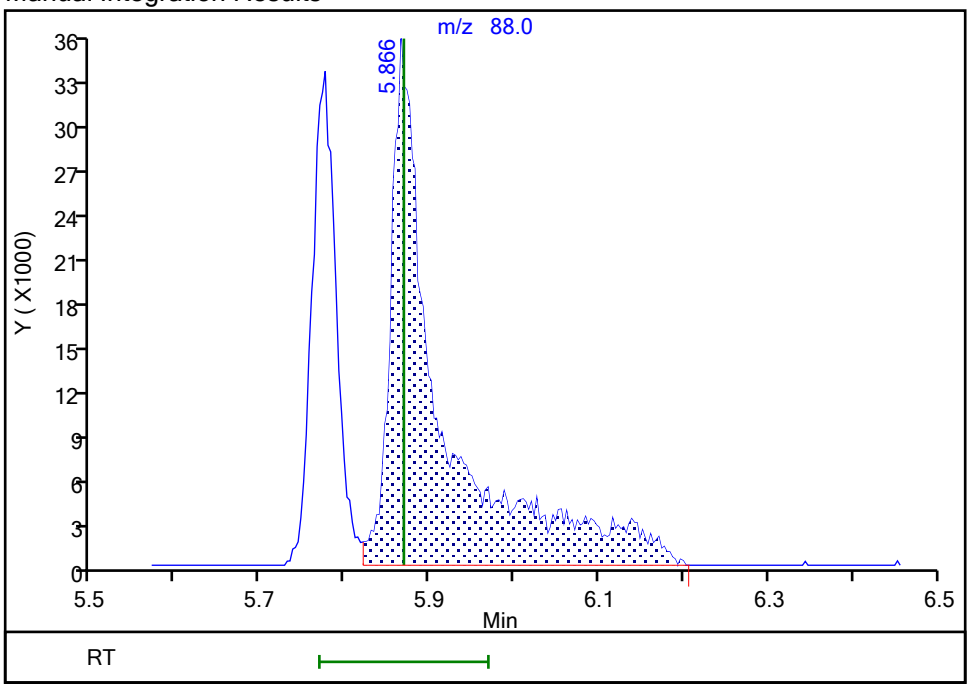
Processing Integration Results

RT: 5.87
Area: 92961
Amount: 1104.6401
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 144719
Amount: 1279.7987
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:00:17
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

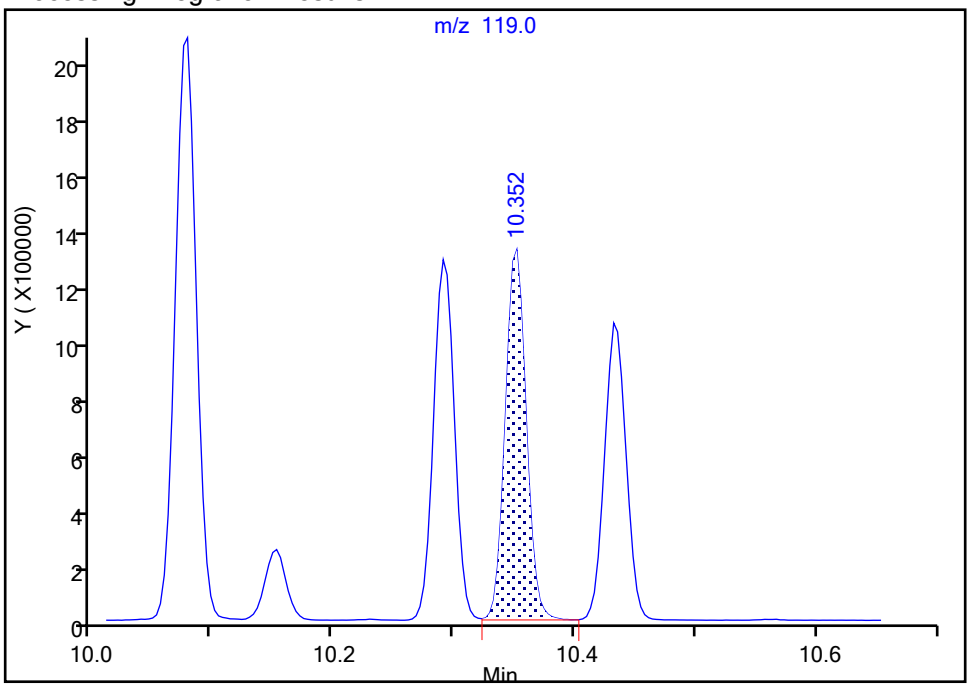
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Injection Date: 25-May-2021 16:09:30 Instrument ID: 9137
Lims ID: IC std6
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

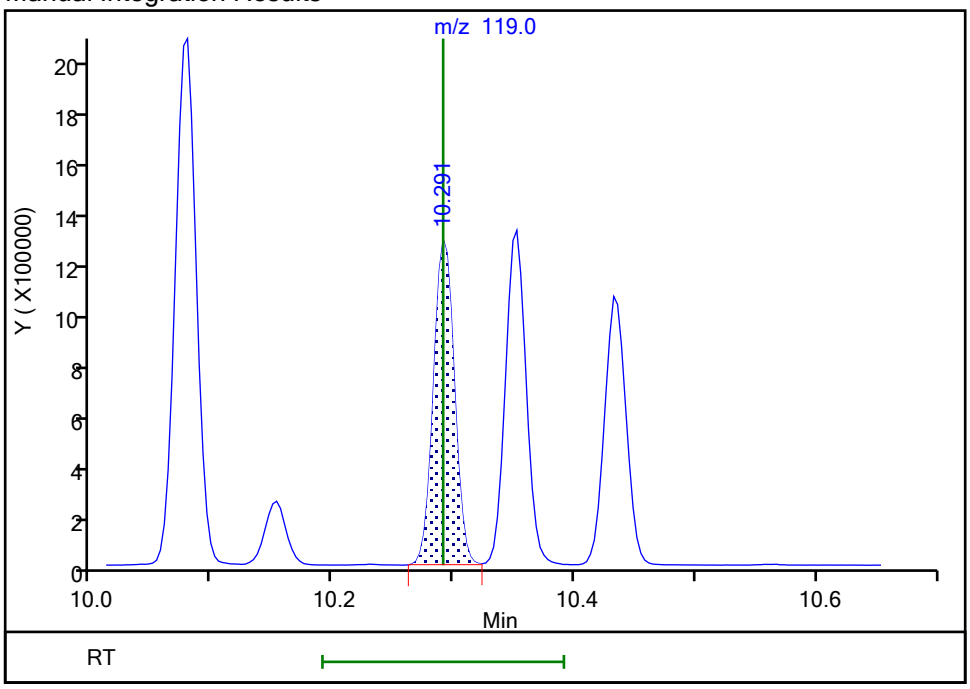
Processing Integration Results

RT: 10.35
Area: 1557077
Amount: 100.8105
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 1518045
Amount: 100.8229
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:36:19
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

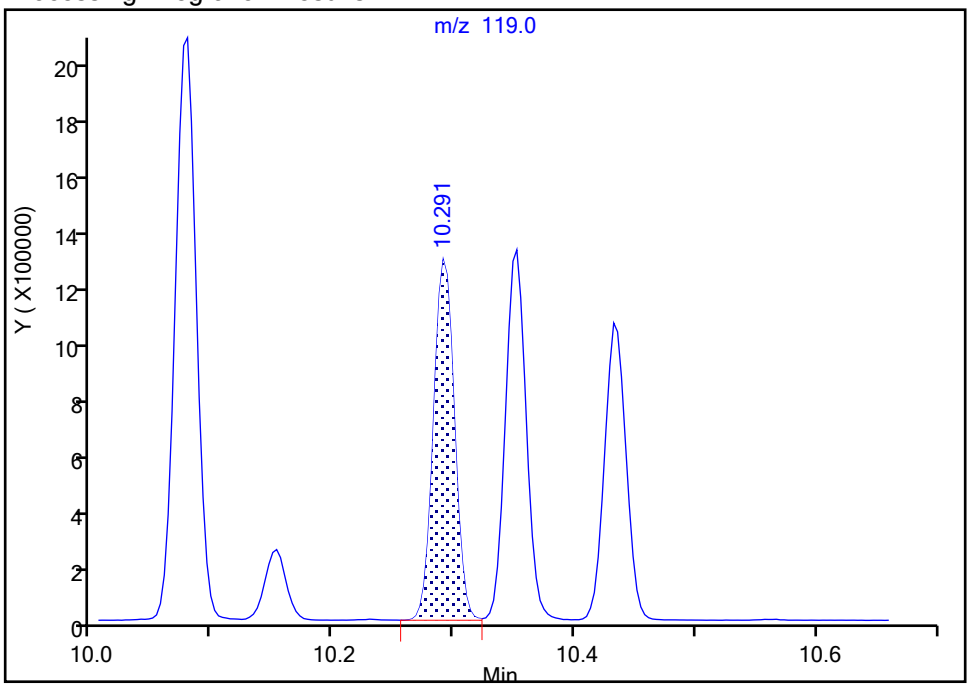
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Injection Date: 25-May-2021 16:09:30 Instrument ID: 9137
Lims ID: IC std6
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

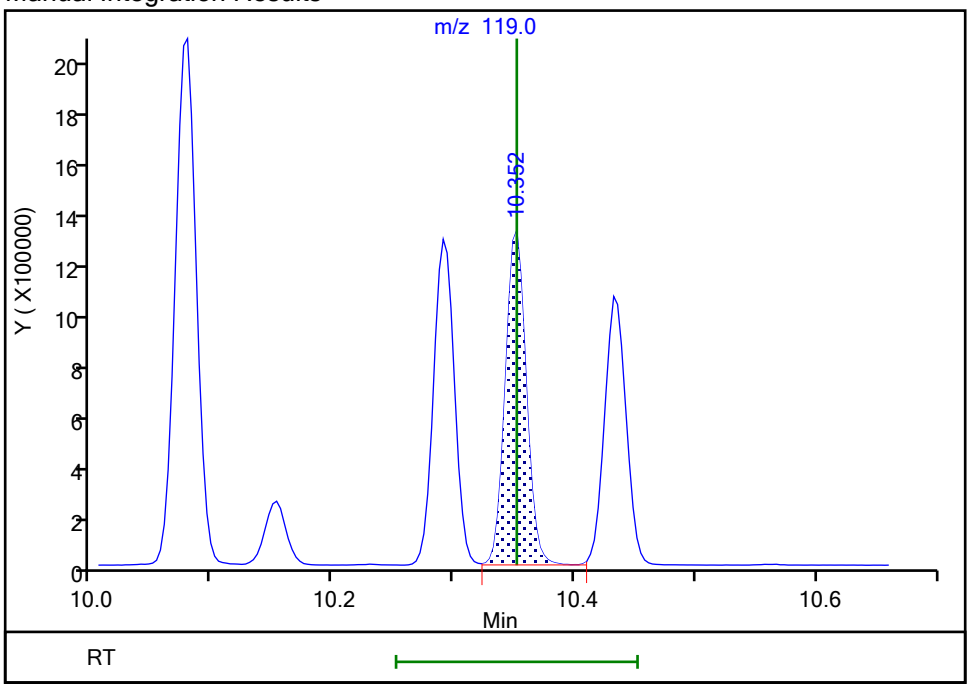
Processing Integration Results

RT: 10.29
Area: 1524496
Amount: 100.4866
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 1561553
Amount: 99.688886
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:36:31
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I03.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 25-May-2021 16:31:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-005
Misc. Info.: ICIS STD5
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:17:01 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 08:06:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.293	1.293	0.000	99	297667	50.0	51.9	
3 Chloromethane	50	1.421	1.421	0.000	100	440677	50.0	50.8	
6 Vinyl chloride	62	1.502	1.502	0.000	99	448134	50.0	52.7	
7 Butadiene	39	1.518	1.518	0.000	92	416291	50.0	51.8	
8 Bromomethane	94	1.726	1.726	0.000	90	287058	50.0	50.6	
9 Chloroethane	64	1.803	1.803	0.000	100	272867	50.0	51.7	
10 Dichlorofluoromethane	67	1.932	1.932	0.000	98	595805	50.0	52.3	
11 Trichlorofluoromethane	101	1.980	1.980	0.000	99	471528	50.0	55.3	
12 Pentane	43	2.038	2.038	0.000	98	578635	50.0	52.8	
14 Ethanol	45	2.082	2.082	0.000	91	131571	1250.0	1212.7	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.208	2.208	0.000	94	398192	50.0	52.7	
16 Acrolein	56	2.281	2.281	0.000	99	1237758	500.0	538.2	
17 1,1-Dichloroethene	96	2.387	2.387	0.000	98	315566	50.0	48.9	
19 112TCTFE	101	2.394	2.394	0.000	70	285432	50.0	51.1	
18 Acetone	58	2.403	2.403	0.000	100	99011	100.0	104.3	
21 Isopropyl alcohol	45	2.519	2.519	0.000	100	168124	250.0	258.5	
22 Iodomethane	142	2.528	2.528	0.000	97	593230	50.0	50.1	
23 Carbon disulfide	76	2.577	2.577	0.000	99	1151930	50.0	50.3	
24 3-Chloro-1-propene	41	2.676	2.676	0.000	91	594404	50.0	53.3	
25 Methyl acetate	43	2.695	2.695	0.000	98	415805	50.0	52.0	
* 27 t-Butyl alcohol-d10 (IS)	65	2.808	2.808	0.000	40	309457	250.0	250.0	M
26 Methylene Chloride	84	2.814	2.814	0.000	94	382602	50.0	48.2	
28 2-Methyl-2-propanol	59	2.881	2.881	0.000	100	339892	250.0	244.9	
29 Acrylonitrile	53	3.003	3.003	0.000	99	518484	125.0	135.0	
30 trans-1,2-Dichloroethene	96	3.035	3.035	0.000	99	344291	50.0	49.0	
31 Methyl tert-butyl ether	73	3.039	3.039	0.000	96	1253036	50.0	51.3	
32 Hexane	57	3.295	3.295	0.000	93	406777	50.0	51.4	
34 1,1-Dichloroethane	63	3.424	3.424	0.000	97	634239	50.0	50.5	
35 Isopropyl ether	45	3.494	3.494	0.000	94	1234968	50.0	50.6	
36 2-Chloro-1,3-butadiene	53	3.510	3.510	0.000	92	576704	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.844	3.844	0.000	98	1191585	50.0	49.7	
40 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	84	374290	50.0	49.1	
39 2,2-Dichloropropane	77	3.976	3.976	0.000	52	271193	50.0	51.1	
41 2-Butanone (MEK)	43	3.992	3.992	0.000	100	622389	100.0	109.3	
42 Propionitrile	54	4.043	4.043	0.000	100	405376	250.0	255.0	
43 Methacrylonitrile	67	4.194	4.194	0.000	93	603704	125.0	128.7	
44 Chlorobromomethane	128	4.204	4.204	0.000	97	186479	50.0	51.3	
45 Tetrahydrofuran	71	4.255	4.255	0.000	90	424578	250.0	254.1	
46 Chloroform	83	4.284	4.284	0.000	95	602413	50.0	49.2	
$ 48 Dibromofluoromethane (Surr)	113	4.438	4.438	0.000	93	287170	50.0	49.7	
49 1,1,1-Trichloroethane	97	4.470	4.470	0.000	99	510363	50.0	50.4	
50 Cyclohexane	56	4.534	4.534	0.000	93	599760	50.0	51.6	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	94	477671	50.0	50.8	
52 Carbon tetrachloride	117	4.634	4.634	0.000	77	423419	50.0	51.4	
54 Isobutyl alcohol	41	4.759	4.759	0.000	95	296907	625.0	643.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.772	4.772	0.000	99	75826	50.0	49.6	
56 Benzene	78	4.839	4.839	0.000	96	1501515	50.0	50.9	
57 1,2-Dichloroethane	62	4.852	4.852	0.000	96	495995	50.0	48.6	
58 Tert-amyl methyl ether	73	4.961	4.961	0.000	98	1197805	50.0	50.9	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	98	1268131	50.0	50.0	
60 n-Heptane	43	5.124	5.124	0.000	92	353688	50.0	49.1	
61 n-Butanol	56	5.436	5.436	0.000	89	241257	625.0	609.5	
62 Trichloroethene	95	5.494	5.494	0.000	99	370681	50.0	49.8	
63 Methylcyclohexane	83	5.699	5.699	0.000	94	488859	50.0	51.9	
64 1,2-Dichloropropane	63	5.721	5.721	0.000	97	406439	50.0	50.4	
66 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	92	580895	50.0	49.8	
67 Dibromomethane	93	5.840	5.840	0.000	97	247174	50.0	50.6	
68 Methyl methacrylate	69	5.863	5.863	0.000	95	422423	50.0	51.1	
69 1,4-Dioxane	88	5.869	5.869	0.000	29	75904	625.0	648.6	M
70 Dichlorobromomethane	83	6.013	6.013	0.000	99	479807	50.0	49.7	
71 2-Nitropropane	41	6.257	6.257	0.000	97	876026	250.0	255.9	
72 2-Chloroethyl vinyl ether	63	6.344	6.344	0.000	93	323081	50.0	52.6	
74 cis-1,3-Dichloropropene	75	6.491	6.491	0.000	95	659977	50.0	51.2	
76 4-Methyl-2-pentanone (MIBK)	43	6.671	6.671	0.000	97	1394269	100.0	109.6	
$ 77 Toluene-d8 (Surr)	98	6.783	6.783	0.000	94	1253251	50.0	50.0	
78 Toluene	92	6.854	6.854	0.000	98	950880	50.0	50.6	
79 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	95	625620	50.0	51.2	
80 Ethyl methacrylate	69	7.220	7.220	0.000	90	713802	50.0	50.5	
81 1,1,2-Trichloroethane	97	7.294	7.294	0.000	91	369653	50.0	50.4	
84 Tetrachloroethene	166	7.441	7.441	0.000	98	371229	50.0	51.3	
85 1,3-Dichloropropane	76	7.464	7.464	0.000	92	645576	50.0	51.2	
88 2-Hexanone	43	7.563	7.563	0.000	96	1099543	100.0	116.2	
89 Chlorodibromomethane	129	7.688	7.688	0.000	90	397070	50.0	50.8	
90 Ethylene Dibromide	107	7.794	7.794	0.000	97	408443	50.0	51.5	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	87	957474	50.0	50.0	
93 1-Chlorohexane	91	8.250	8.250	0.000	97	457699	50.0	49.7	
94 Chlorobenzene	112	8.256	8.256	0.000	94	1020295	50.0	50.9	
95 1,1,1,2-Tetrachloroethane	131	8.330	8.330	0.000	96	353588	50.0	51.6	
96 Ethylbenzene	91	8.362	8.362	0.000	98	1754003	50.0	51.3	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	99	1354696	100.0	102.5	
98 o-Xylene	106	8.799	8.799	0.000	97	676443	50.0	50.7	
99 Styrene	104	8.812	8.812	0.000	95	1203256	50.0	51.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Bromoform	173	8.956	8.956	0.000	95	324937	50.0	52.6	
102 Isopropylbenzene	105	9.107	9.107	0.000	96	1598232	50.0	51.6	
103 Cyclohexanone	55	9.171	9.171	0.000	93	426330	625.0	668.6	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	89	485928	50.0	50.0	
105 Bromobenzene	156	9.338	9.338	0.000	95	433356	50.0	50.3	
106 1,1,2,2-Tetrachloroethane	83	9.338	9.338	0.000	93	636003	50.0	49.7	
107 1,2,3-Trichloropropane	110	9.370	9.370	0.000	85	184533	50.0	49.6	
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	96	557322	125.0	128.1	
109 N-Propylbenzene	91	9.431	9.431	0.000	99	1873194	50.0	51.0	
111 2-Chlorotoluene	126	9.492	9.492	0.000	96	389829	50.0	50.2	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	94	1344830	50.0	51.2	
113 4-Chlorotoluene	126	9.575	9.575	0.000	99	417009	50.0	50.6	
114 tert-Butylbenzene	134	9.809	9.809	0.000	93	275782	50.0	50.9	
115 Pentachloroethane	167	9.822	9.822	0.000	85	256884	50.0	51.1	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	98	1418076	50.0	51.1	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	1427999	50.0	51.5	
118 1,3-Dichlorobenzene	146	10.047	10.047	0.000	98	784758	50.0	50.1	
119 4-Isopropyltoluene	119	10.079	10.079	0.000	97	1269122	50.0	51.3	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	96	519957	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	95	818367	50.0	50.3	
122 1,2,3-Trimethylbenzene	105	10.153	10.153	0.000	99	1481078	50.0	51.3	
124 Benzyl chloride	91	10.211	10.211	0.000	99	1394699	50.0	51.7	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	95	780314	50.0	51.6	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	94	804691	50.0	51.2	M
127 n-Butylbenzene	92	10.368	10.368	0.000	97	610558	50.0	51.7	
128 1,2-Dichlorobenzene	146	10.377	10.377	0.000	97	792043	50.0	50.7	
129 o-diethylbenzene	119	10.435	10.435	0.000	96	668761	50.0	51.1	
130 1,2-Dibromo-3-Chloropropane	75	10.913	10.913	0.000	86	160192	50.0	50.8	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	94	497188	50.0	51.5	
136 1,2,3-Trichlorobenzene	180	11.469	11.469	0.000	96	494806	50.0	51.7	
134 Hexachlorobutadiene	225	11.581	11.581	0.000	96	185973	50.0	50.8	
135 Naphthalene	128	11.632	11.632	0.000	97	1956616	50.0	51.2	
131 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	98	474626	50.0	50.8	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	93	952899	50.0	52.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_V_ETOH_00012	Amount Added:	10.00	Units: uL	
MSV_CCV_2CEVE_00002	Amount Added:	5.00	Units: uL	
MSV_CCV_Penta_00001	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00002	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#1_00002	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00003	Amount Added:	2.50	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:17:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I03.D

Injection Date: 25-May-2021 16:31:30 Instrument ID: 9137 Operator ID: kas02648

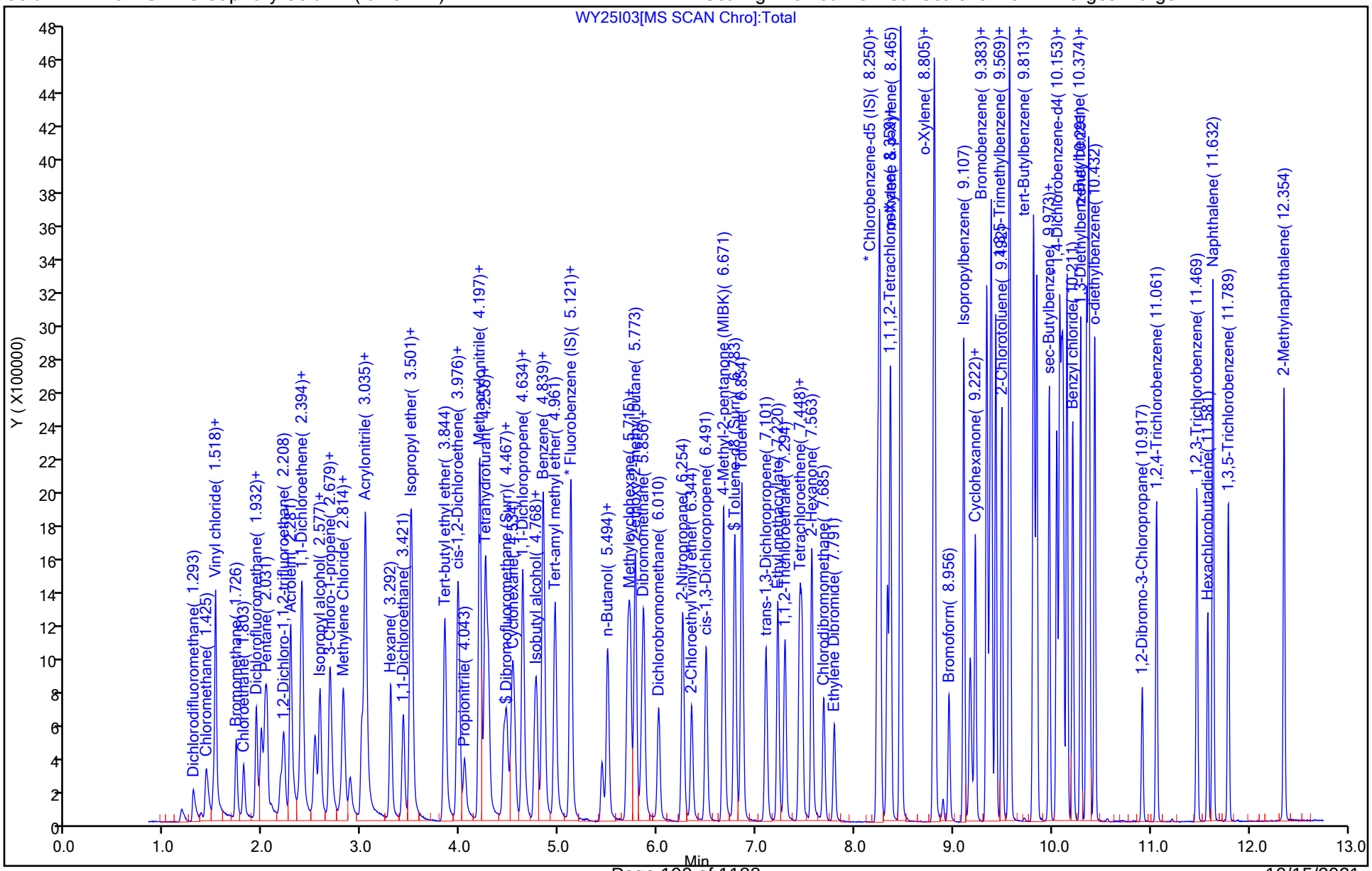
Lims ID: ICIS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: MSVoa_9137 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

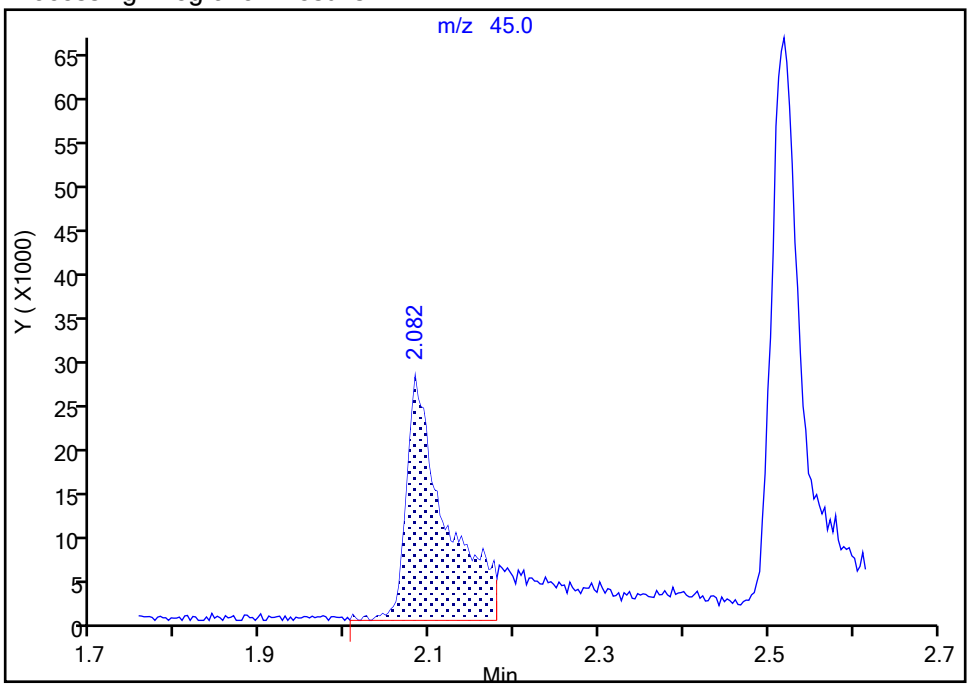
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Injection Date: 25-May-2021 16:31:30 Instrument ID: 9137
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

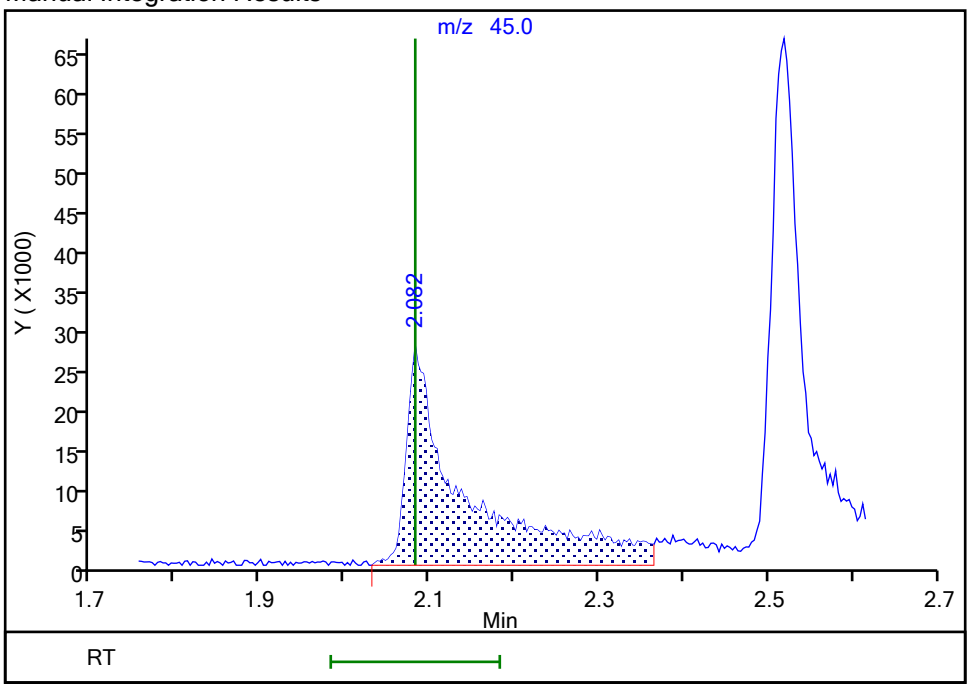
Processing Integration Results

RT: 2.08
Area: 88480
Amount: 1026.8534
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 131571
Amount: 1212.6705
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:02:38
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

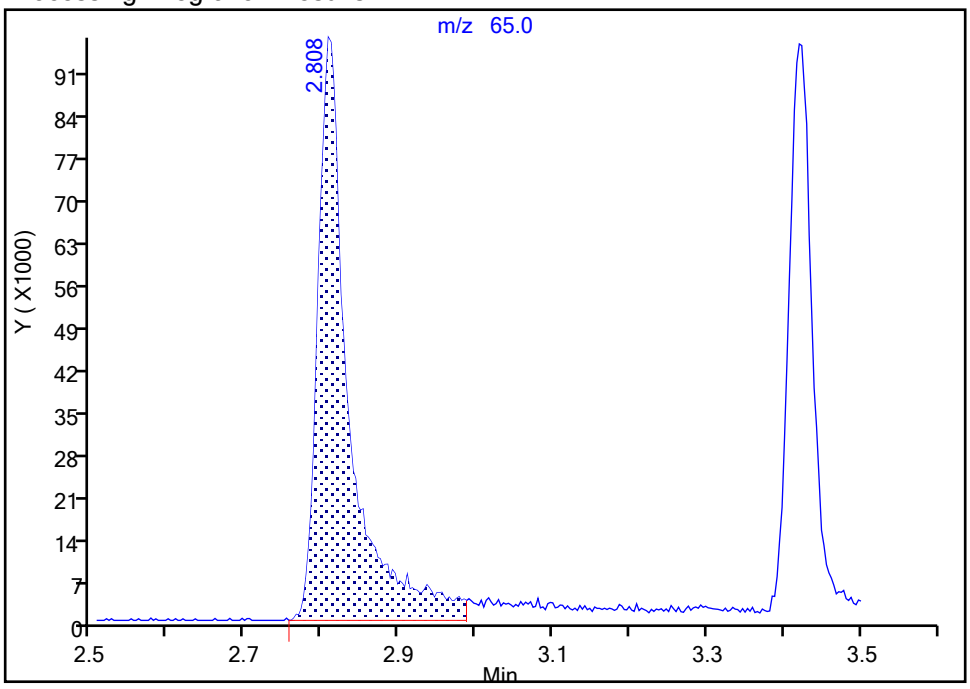
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Injection Date: 25-May-2021 16:31:30 Instrument ID: 9137
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

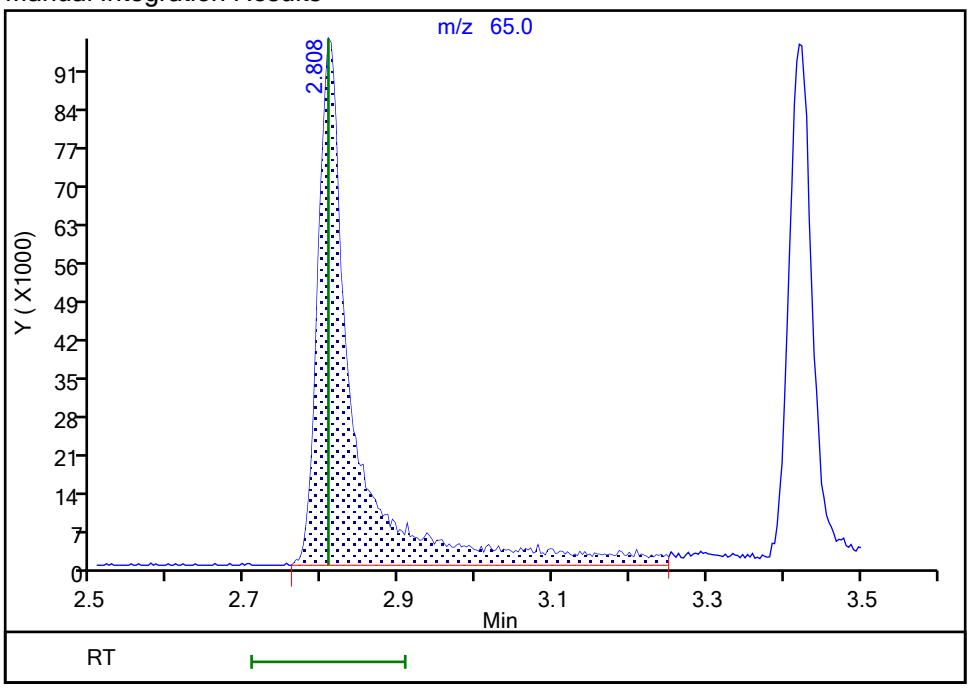
Processing Integration Results

RT: 2.81
Area: 273341
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 309457
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:04:50
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

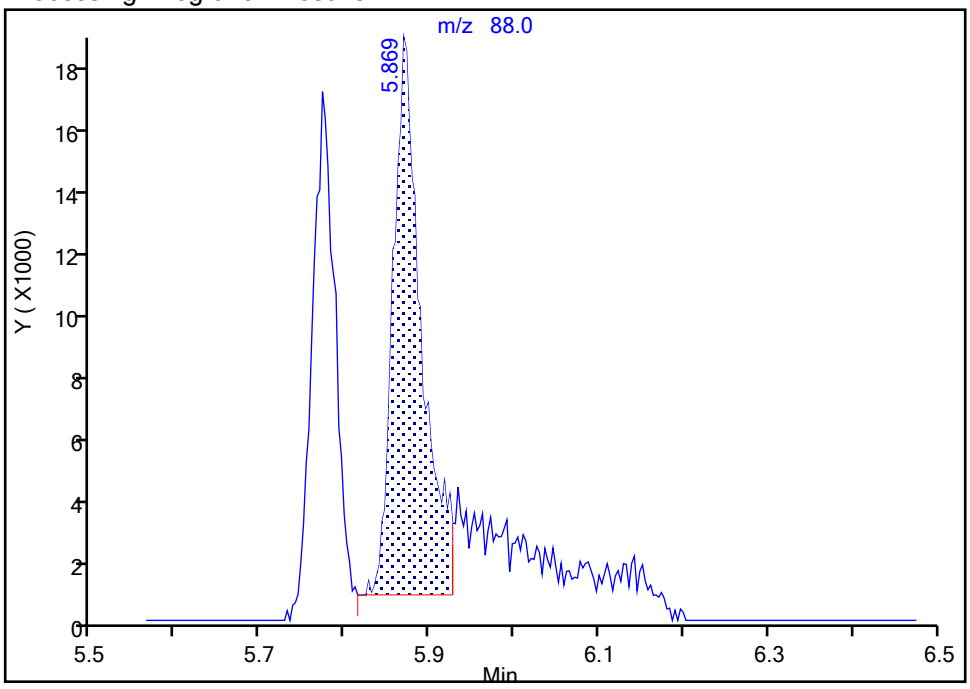
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Injection Date: 25-May-2021 16:31:30 Instrument ID: 9137
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

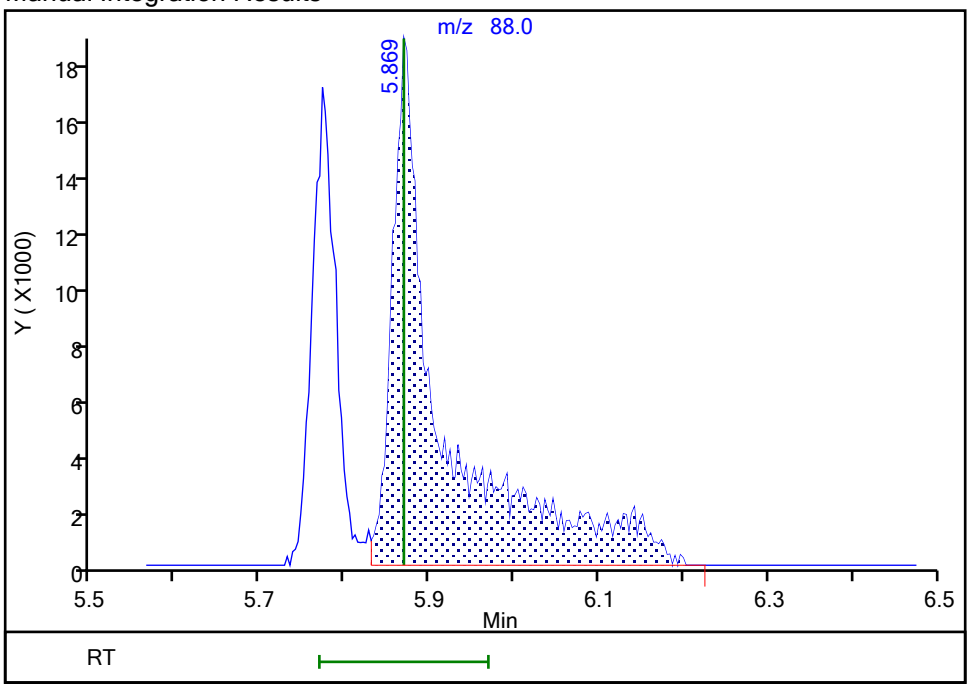
Processing Integration Results

RT: 5.87
Area: 41239
Amount: 448.4077
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 75904
Amount: 648.6121
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:05:53
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

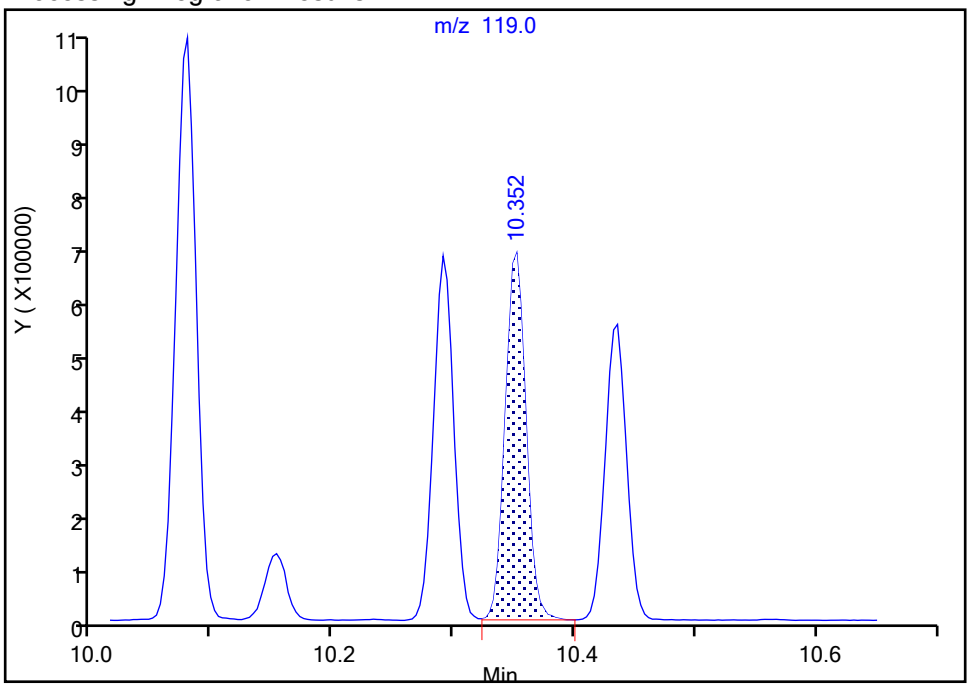
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Injection Date: 25-May-2021 16:31:30 Instrument ID: 9137
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

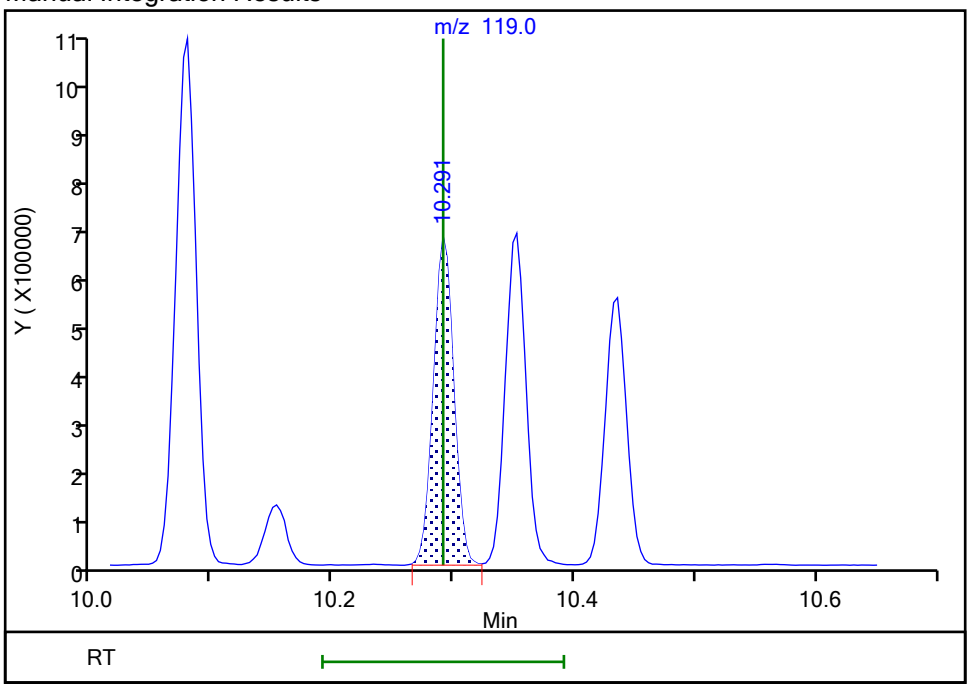
Processing Integration Results

RT: 10.35
Area: 800883
Amount: 51.293712
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 780314
Amount: 51.610857
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:32:11
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

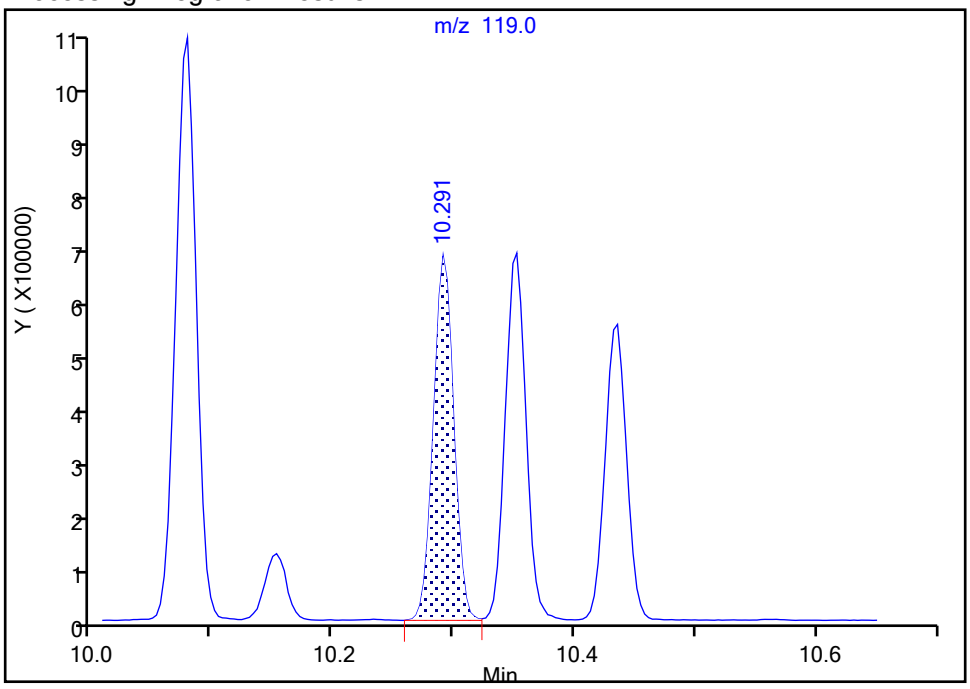
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I03.D
Injection Date: 25-May-2021 16:31:30 Instrument ID: 9137
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

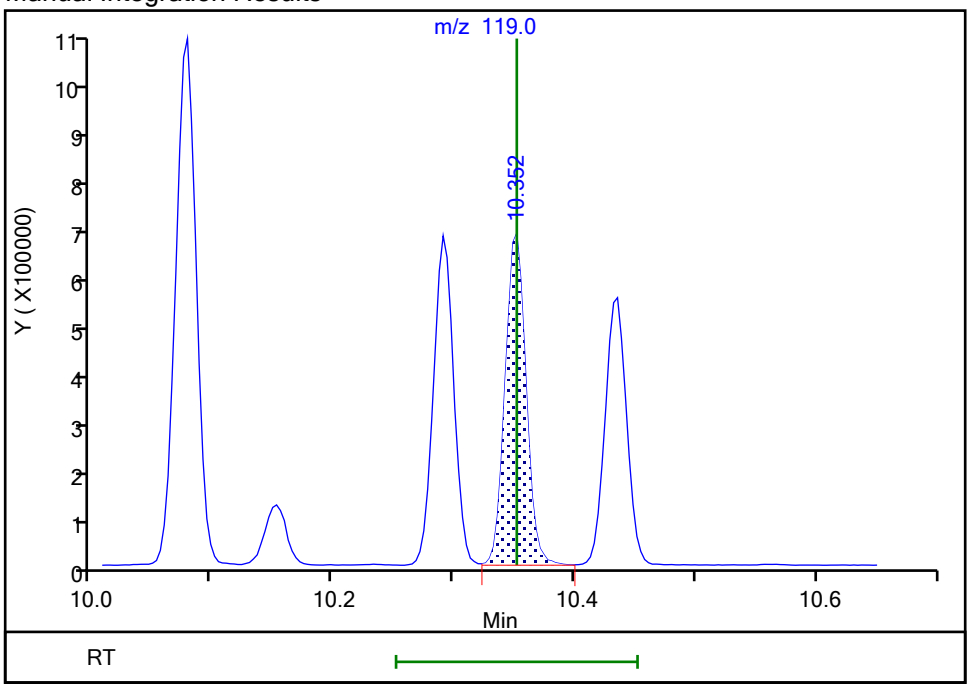
Processing Integration Results

RT: 10.29
Area: 781274
Amount: 51.667630
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 804691
Amount: 51.158322
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:32:25
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-May-2021 16:54:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-006
Misc. Info.: IC STD4
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:17:07 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 08:16:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.290	1.293	-0.003	99	97257	20.0	17.5	M
3 Chloromethane	50	1.425	1.421	0.004	100	160027	20.0	19.0	M
6 Vinyl chloride	62	1.502	1.502	0.000	98	151228	20.0	18.3	
7 Butadiene	39	1.518	1.518	0.000	92	133988	20.0	17.2	
8 Bromomethane	94	1.726	1.726	0.000	91	100898	20.0	18.3	
9 Chloroethane	64	1.800	1.803	-0.003	99	95183	20.0	18.6	
10 Dichlorofluoromethane	67	1.932	1.932	0.000	98	199982	20.0	18.1	
11 Trichlorofluoromethane	101	1.980	1.980	0.000	100	148342	20.0	17.9	
12 Pentane	43	2.034	2.038	-0.004	97	211107	20.0	19.8	
14 Ethanol	45	2.086	2.082	0.004	93	92319	1000.0	987.7	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.204	2.208	-0.004	93	131130	20.0	17.9	
16 Acrolein	56	2.281	2.281	0.000	99	407588	200.0	207.1	
17 1,1-Dichloroethene	96	2.387	2.387	0.000	98	119301	20.0	19.0	
19 112TCTFE	101	2.394	2.394	0.000	88	113131	20.0	20.9	
18 Acetone	58	2.406	2.403	0.003	99	28289	40.0	33.2	
21 Isopropyl alcohol	45	2.519	2.519	0.000	99	89427	200.0	166.5	
22 Iodomethane	142	2.525	2.528	-0.003	98	235775	20.0	20.5	
23 Carbon disulfide	76	2.577	2.577	0.000	99	456012	20.0	20.5	
24 3-Chloro-1-propene	41	2.676	2.676	0.000	92	238357	20.0	22.0	
25 Methyl acetate	43	2.695	2.695	0.000	98	149612	20.0	19.3	
* 27 t-Butyl alcohol-d10 (IS)	65	2.811	2.808	0.003	39	264743	250.0	250.0	M
26 Methylene Chloride	84	2.817	2.814	0.003	93	156276	20.0	20.3	
28 2-Methyl-2-propanol	59	2.888	2.881	0.007	100	229328	200.0	193.1	
29 Acrylonitrile	53	3.003	3.003	0.000	100	180462	50.0	48.4	
30 trans-1,2-Dichloroethene	96	3.035	3.035	0.000	97	138927	20.0	20.4	
31 Methyl tert-butyl ether	73	3.042	3.039	0.003	96	481367	20.0	20.3	
32 Hexane	57	3.295	3.295	0.000	94	161373	20.0	21.0	
34 1,1-Dichloroethane	63	3.424	3.424	0.000	96	253151	20.0	20.7	
35 Isopropyl ether	45	3.498	3.494	0.004	94	488290	20.0	20.6	
36 2-Chloro-1,3-butadiene	53	3.510	3.510	0.000	92	226866	20.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.844	3.844	0.000	98	473453	20.0	20.3	
40 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	84	149051	20.0	20.1	
39 2,2-Dichloropropane	77	3.976	3.976	0.000	53	109779	20.0	21.3	
41 2-Butanone (MEK)	43	3.988	3.992	-0.004	100	203793	40.0	36.9	
42 Propionitrile	54	4.043	4.043	0.000	100	281487	200.0	207.0	
43 Methacrylonitrile	67	4.194	4.194	0.000	93	457430	100.0	100.4	
44 Chlorobromomethane	128	4.203	4.204	-0.001	98	71684	20.0	20.3	
45 Tetrahydrofuran	71	4.258	4.255	0.003	89	144709	100.0	101.2	
46 Chloroform	83	4.284	4.284	0.000	95	241103	20.0	20.3	
$ 48 Dibromofluoromethane (Surr)	113	4.441	4.438	0.003	94	281355	50.0	50.1	
49 1,1,1-Trichloroethane	97	4.470	4.470	0.000	91	200759	20.0	20.4	
50 Cyclohexane	56	4.531	4.534	-0.003	94	237903	20.0	21.1	
51 1,1-Dichloropropene	75	4.633	4.634	-0.001	95	191458	20.0	21.0	
52 Carbon tetrachloride	117	4.633	4.634	-0.001	76	167483	20.0	21.0	
54 Isobutyl alcohol	41	4.759	4.759	0.000	96	197825	500.0	501.0	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.772	0.006	98	73745	50.0	49.7	
56 Benzene	78	4.839	4.839	0.000	96	594187	20.0	20.7	
57 1,2-Dichloroethane	62	4.852	4.852	0.000	96	198021	20.0	20.0	
58 Tert-amyl methyl ether	73	4.958	4.961	-0.003	98	467475	20.0	20.4	
* 59 Fluorobenzene (IS)	96	5.121	5.118	0.003	97	1231491	50.0	50.0	
60 n-Heptane	43	5.121	5.124	-0.003	42	141995	20.0	20.3	Ma
61 n-Butanol	56	5.436	5.436	0.000	89	254147	750.0	750.5	
62 Trichloroethene	95	5.497	5.494	0.003	98	145785	20.0	20.2	
63 Methylcyclohexane	83	5.699	5.699	0.000	93	194435	20.0	21.2	
64 1,2-Dichloropropane	63	5.724	5.721	0.003	97	162995	20.0	20.8	
66 2-ethoxy-2-methyl butane	87	5.773	5.776	-0.003	93	237415	20.0	20.9	
67 Dibromomethane	93	5.840	5.840	0.000	96	96929	20.0	20.4	
68 Methyl methacrylate	69	5.862	5.863	-0.001	93	162789	20.0	20.3	
69 1,4-Dioxane	88	5.866	5.869	-0.003	91	53790	500.0	537.3	M
70 Dichlorobromomethane	83	6.010	6.013	-0.003	99	190646	20.0	20.3	
S 73 1,2-Dichloroethene, Total	100				0			40.5	
71 2-Nitropropane	41	6.257	6.257	0.000	98	320662	100.0	109.5	
72 2-Chloroethyl vinyl ether	63	6.347	6.344	0.003	91	119168	20.0	20.0	
74 cis-1,3-Dichloropropene	75	6.495	6.491	0.004	95	263418	20.0	21.0	
76 4-Methyl-2-pentanone (MIBK)	43	6.671	6.671	0.000	97	462689	40.0	37.5	
$ 77 Toluene-d8 (Surr)	98	6.783	6.783	0.000	93	1226830	50.0	50.0	
78 Toluene	92	6.857	6.854	0.003	98	382311	20.0	20.8	
79 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	94	247465	20.0	20.7	
80 Ethyl methacrylate	69	7.220	7.220	0.000	90	271984	20.0	19.7	
81 1,1,2-Trichloroethane	97	7.290	7.294	-0.004	91	144635	20.0	20.2	
84 Tetrachloroethene	166	7.441	7.441	0.000	98	147823	20.0	20.9	
85 1,3-Dichloropropane	76	7.464	7.464	0.000	94	247242	20.0	20.0	
88 2-Hexanone	43	7.566	7.563	0.003	97	356061	40.0	38.4	
89 Chlorodibromomethane	129	7.685	7.688	-0.003	90	159233	20.0	20.8	
90 Ethylene Dibromide	107	7.791	7.794	-0.003	98	154034	20.0	19.9	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	87	937478	50.0	50.0	
93 1-Chlorohexane	91	8.250	8.250	0.000	97	183599	20.0	20.3	
94 Chlorobenzene	112	8.256	8.256	0.000	93	404370	20.0	20.6	
95 1,1,1,2-Tetrachloroethane	131	8.333	8.330	0.003	96	137530	20.0	20.5	
96 Ethylbenzene	91	8.359	8.362	-0.003	98	702272	20.0	21.0	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	100	533785	40.0	41.2	
98 o-Xylene	106	8.802	8.799	0.003	97	270401	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Styrene	104	8.811	8.812	-0.001	95	468522	20.0	20.6	
100 Bromoform	173	8.956	8.956	0.000	97	121590	20.0	20.1	
102 Isopropylbenzene	105	9.107	9.107	0.000	96	647830	20.0	21.4	
103 Cyclohexanone	55	9.171	9.171	0.000	93	293252	500.0	537.5	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	89	471133	50.0	49.5	
105 Bromobenzene	156	9.338	9.338	0.000	96	172193	20.0	20.7	
106 1,1,2,2-Tetrachloroethane	83	9.341	9.338	0.003	94	248697	20.0	20.1	
107 1,2,3-Trichloropropane	110	9.373	9.370	0.003	81	72824	20.0	20.2	
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	95	436098	100.0	103.7	
109 N-Propylbenzene	91	9.431	9.431	0.000	99	752776	20.0	21.2	
111 2-Chlorotoluene	126	9.492	9.492	0.000	96	159764	20.0	21.3	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	95	543079	20.0	21.4	
113 4-Chlorotoluene	126	9.575	9.575	0.000	98	167212	20.0	21.0	
114 tert-Butylbenzene	134	9.813	9.809	0.004	92	115097	20.0	22.0	
115 Pentachloroethane	167	9.822	9.822	0.000	89	102166	20.0	21.0	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	98	574195	20.0	21.4	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	579261	20.0	21.6	
118 1,3-Dichlorobenzene	146	10.050	10.047	0.003	98	320728	20.0	21.2	
S 123 1,3-Dichloropropene, Total	100				0			41.7	
119 4-Isopropyltoluene	119	10.079	10.079	0.000	97	511692	20.0	21.4	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	95	502868	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	95	319417	20.0	20.3	
122 1,2,3-Trimethylbenzene	105	10.153	10.153	0.000	99	596191	20.0	21.3	
124 Benzyl chloride	91	10.211	10.211	0.000	99	537369	20.0	20.6	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	96	315821	20.0	21.6	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	96	324677	20.0	21.3	M
127 n-Butylbenzene	92	10.368	10.368	0.000	97	245166	20.0	21.5	
128 1,2-Dichlorobenzene	146	10.381	10.377	0.004	98	314150	20.0	20.8	
129 o-diethylbenzene	119	10.435	10.435	0.000	96	268918	20.0	21.2	
130 1,2-Dibromo-3-Chloropropane	75	10.917	10.913	0.003	86	60211	20.0	19.8	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	94	201714	20.0	21.6	
S 132 Xylenes, Total	106				0			62.0	
136 1,2,3-Trichlorobenzene	180	11.468	11.469	0.000	95	195263	20.0	21.1	
134 Hexachlorobutadiene	225	11.581	11.581	0.000	96	74556	20.0	21.1	
135 Naphthalene	128	11.632	11.632	0.000	97	776474	20.0	21.0	
131 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	98	189937	20.0	21.0	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	92	356040	20.0	20.3	
S 155 Total Diethylbenzene	1				0			64.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_V_ETOH_00012	Amount Added:	16.00	Units: uL	
MSV_VCYC_00006	Amount Added:	16.00	Units: uL	
MSV_CCV_2CEVE_00002	Amount Added:	4.00	Units: uL	
MSV_CCV_Penta_00001	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#3_00002	Amount Added:	3.20	Units: uL	
MSV_V_VOA2_00088	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#1_00002	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00003	Amount Added:	2.00	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:17:08 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D

Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137 Operator ID: kas02648

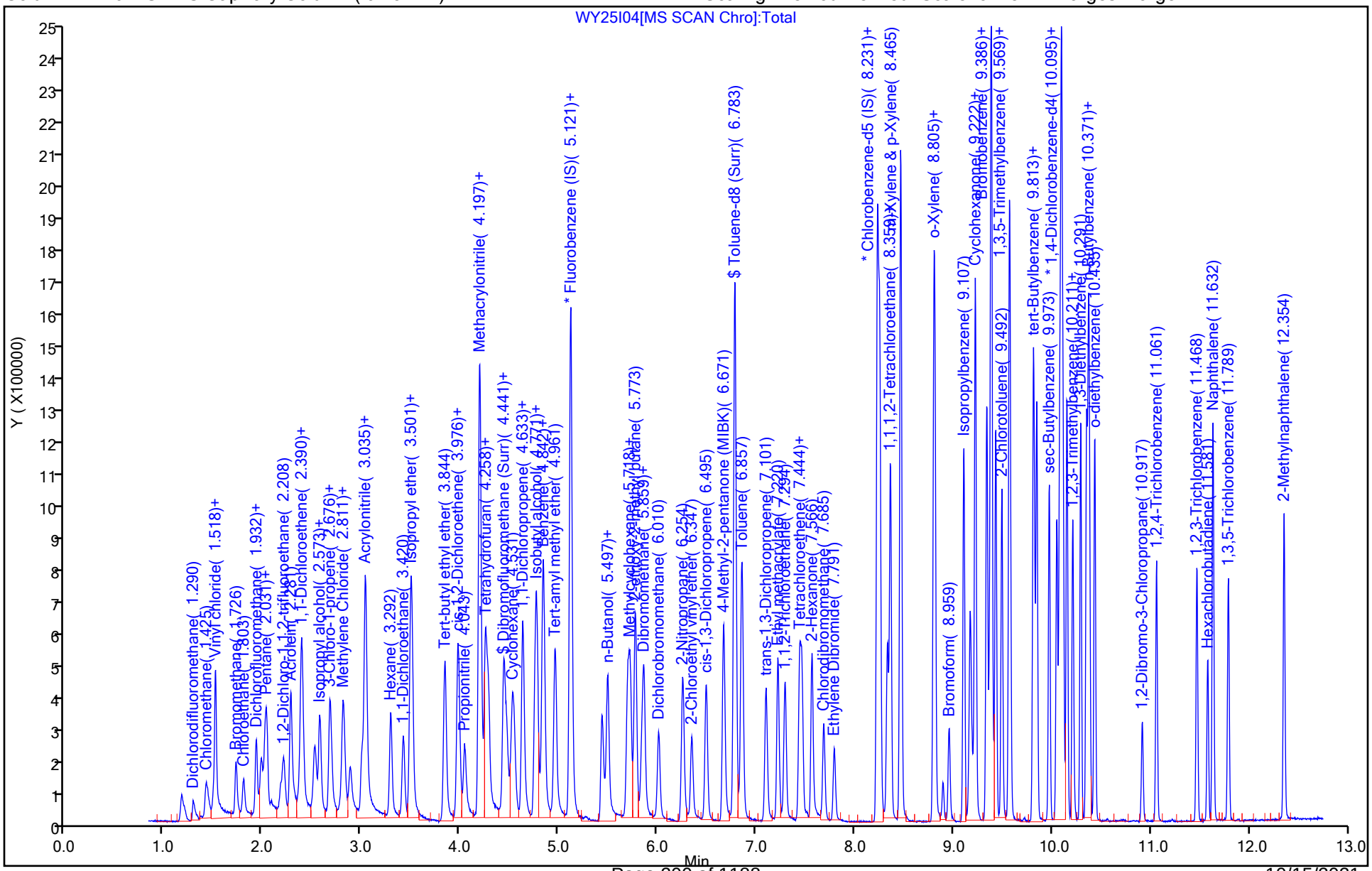
Lims ID: IC std4 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSVoa_9137 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

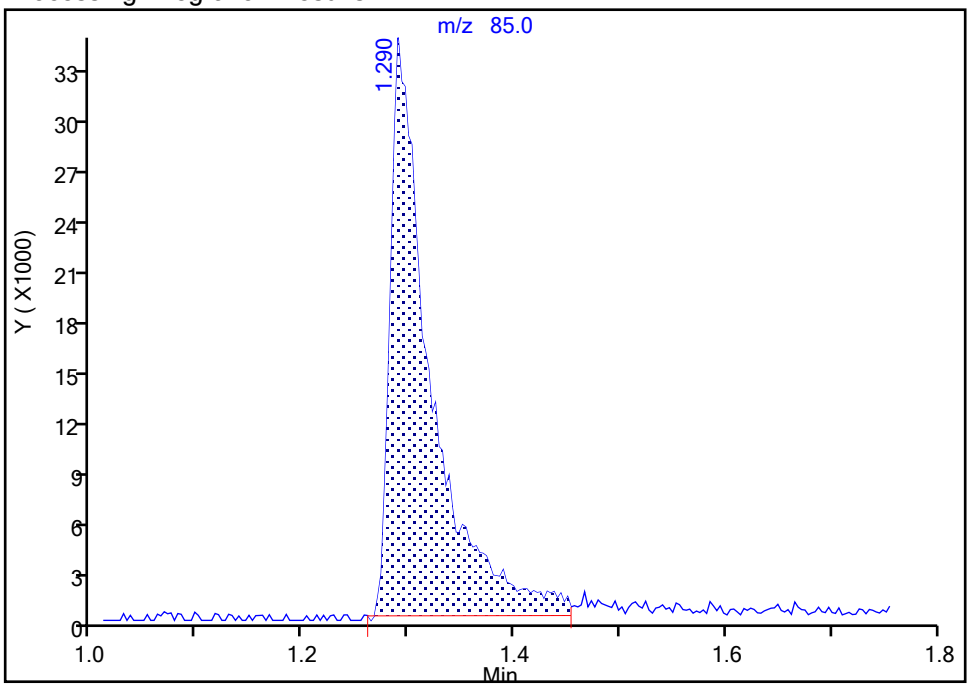
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Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

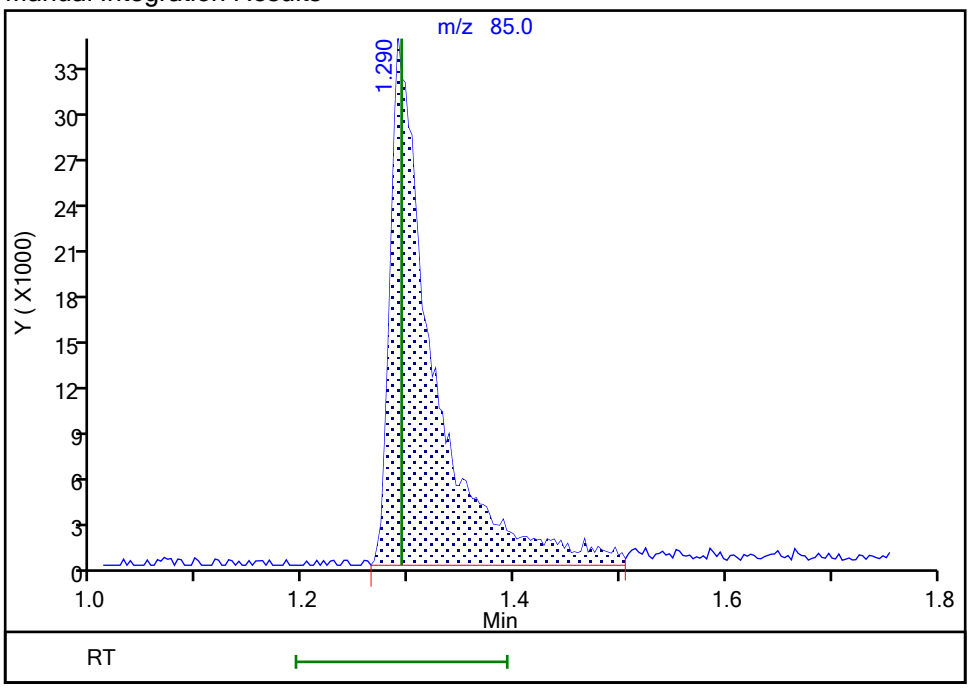
Processing Integration Results

RT: 1.29
Area: 91204
Amount: 16.671736
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 97257
Amount: 17.453142
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:08:28
Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

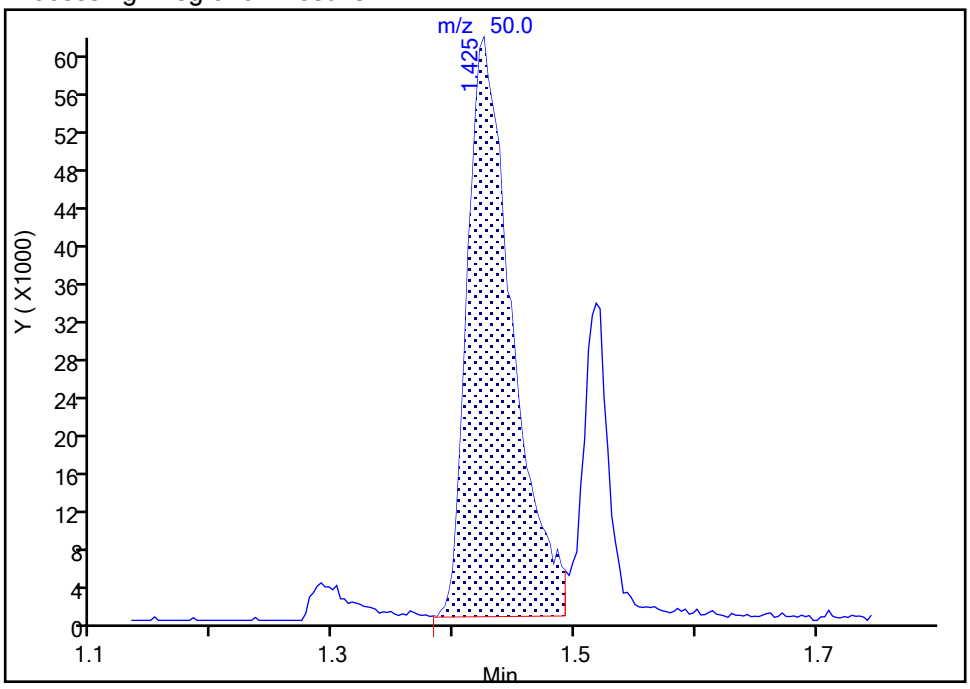
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

3 Chloromethane, CAS: 74-87-3

Signal: 1

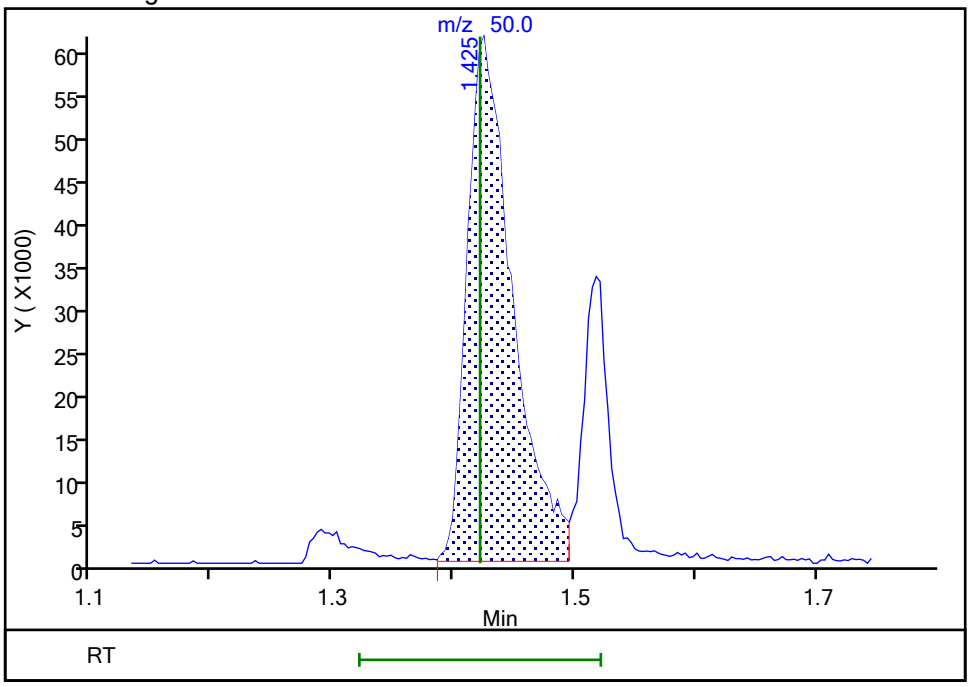
Processing Integration Results

RT: 1.42
Area: 158017
Amount: 18.841206
Amount Units: ug/l



Manual Integration Results

RT: 1.42
Area: 160027
Amount: 18.990100
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:09:39
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

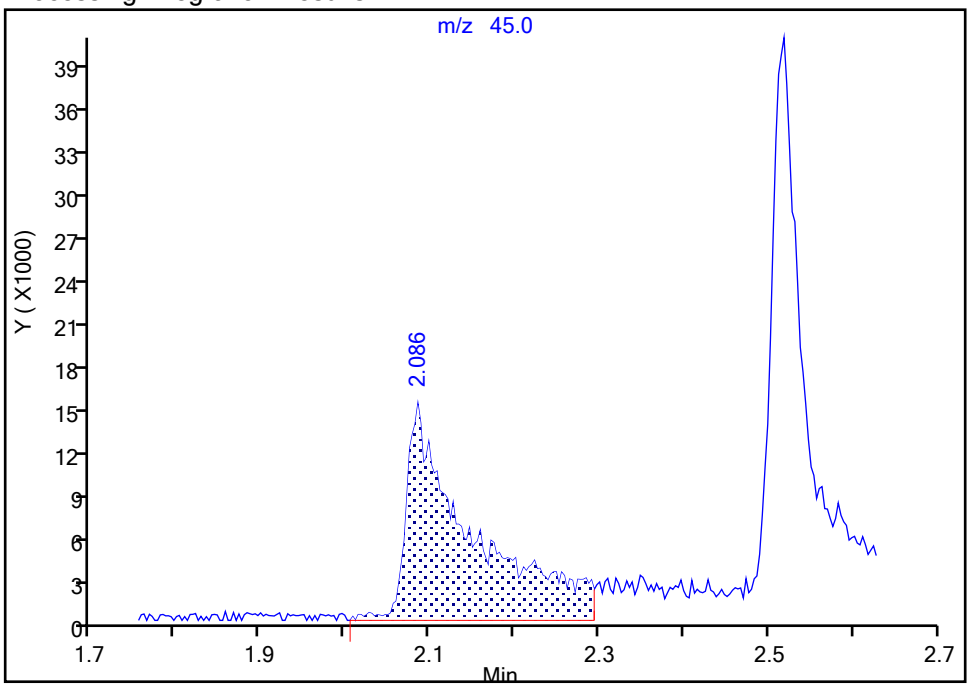
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

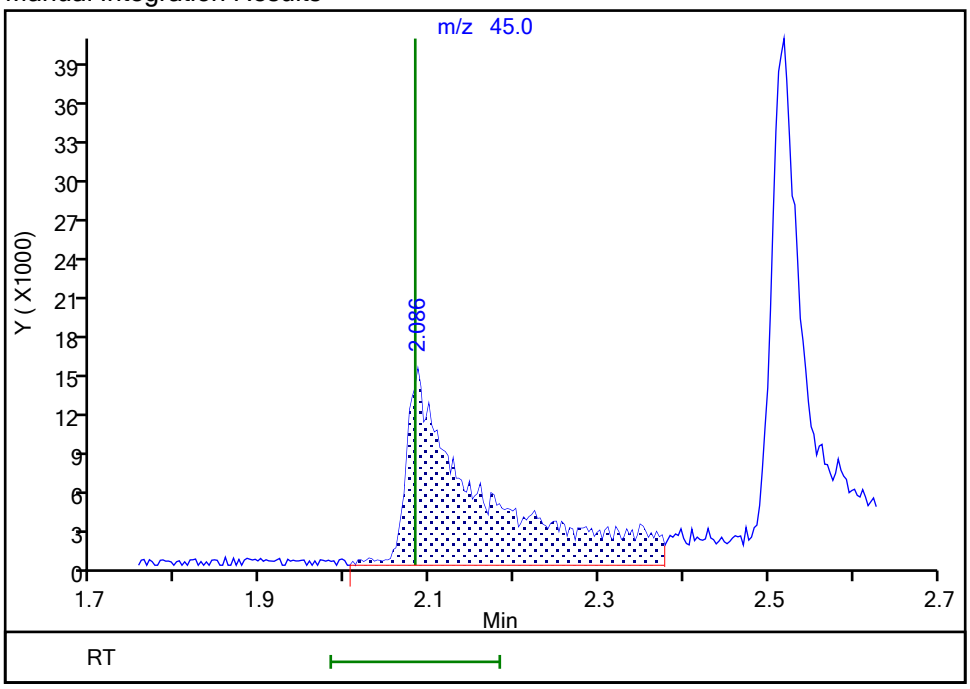
Processing Integration Results

RT: 2.09
Area: 80441
Amount: 1040.7173
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 92319
Amount: 987.7190
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:11:56
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

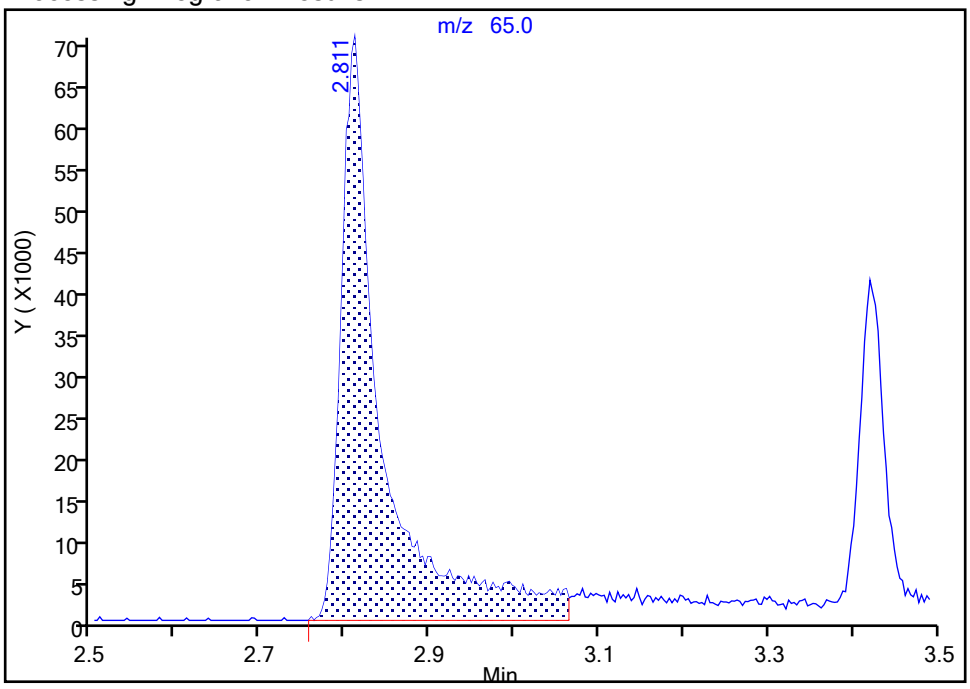
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

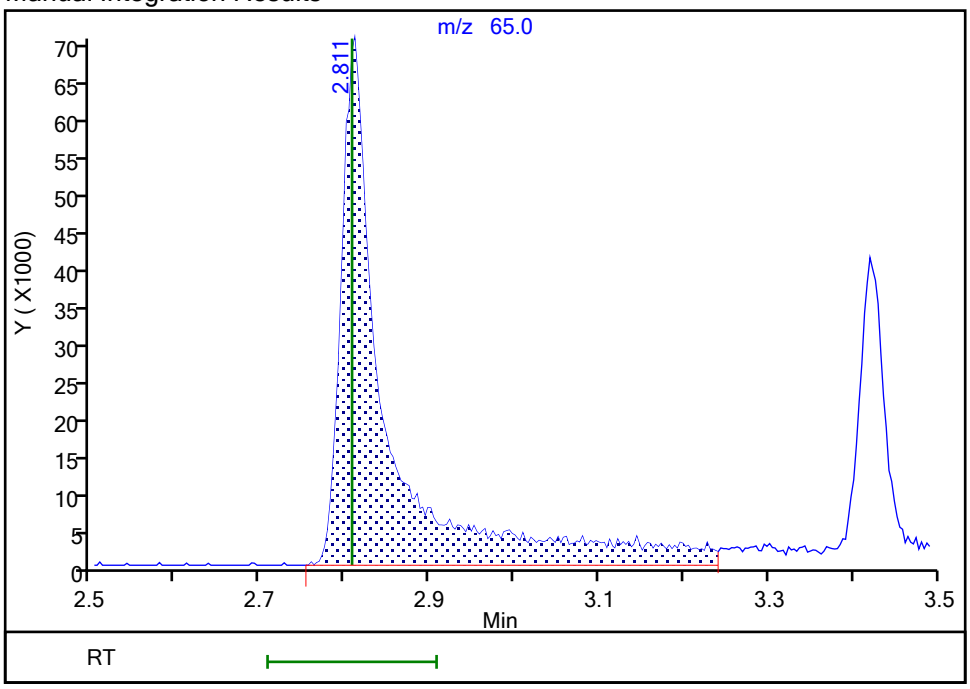
Processing Integration Results

RT: 2.81
Area: 236496
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 264743
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:13:53
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

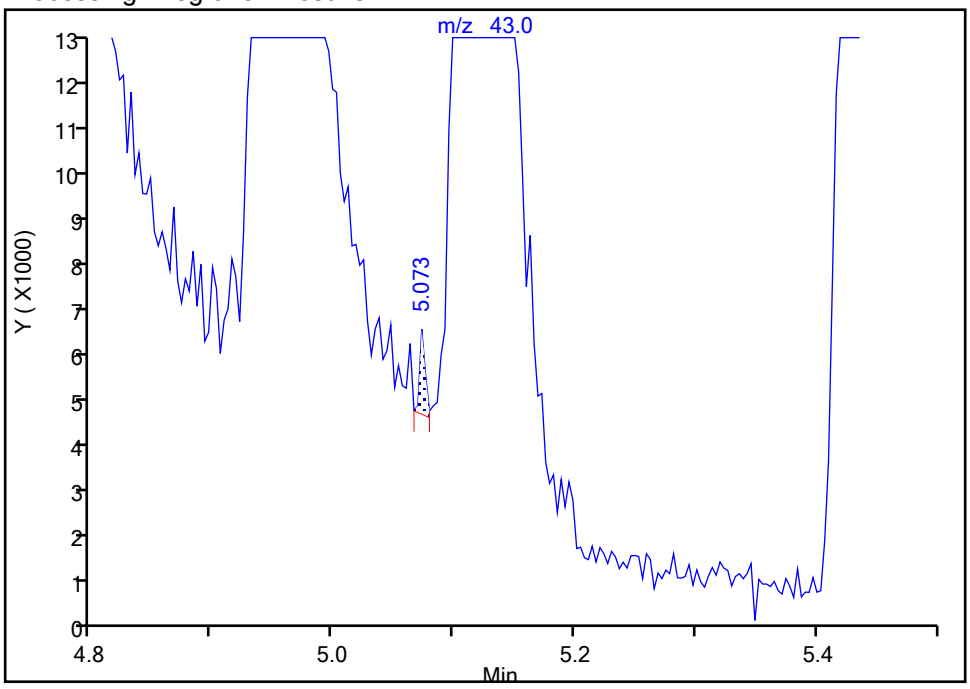
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

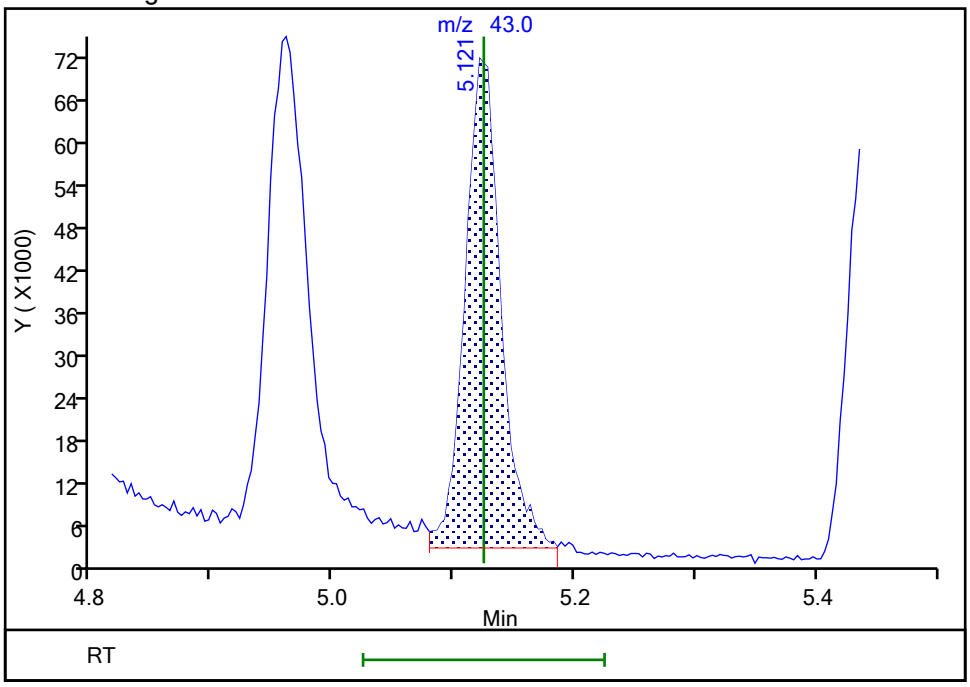
Processing Integration Results

RT: 5.07
Area: 572
Amount: 0.188970
Amount Units: ug/l



Manual Integration Results

RT: 5.12
Area: 141995
Amount: 20.281513
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:14:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

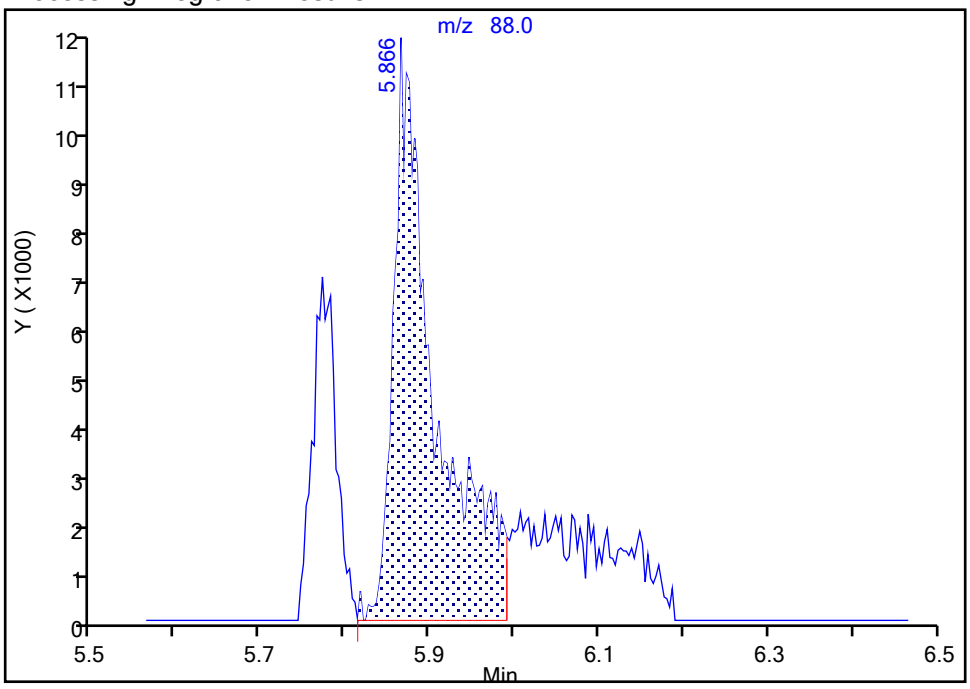
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

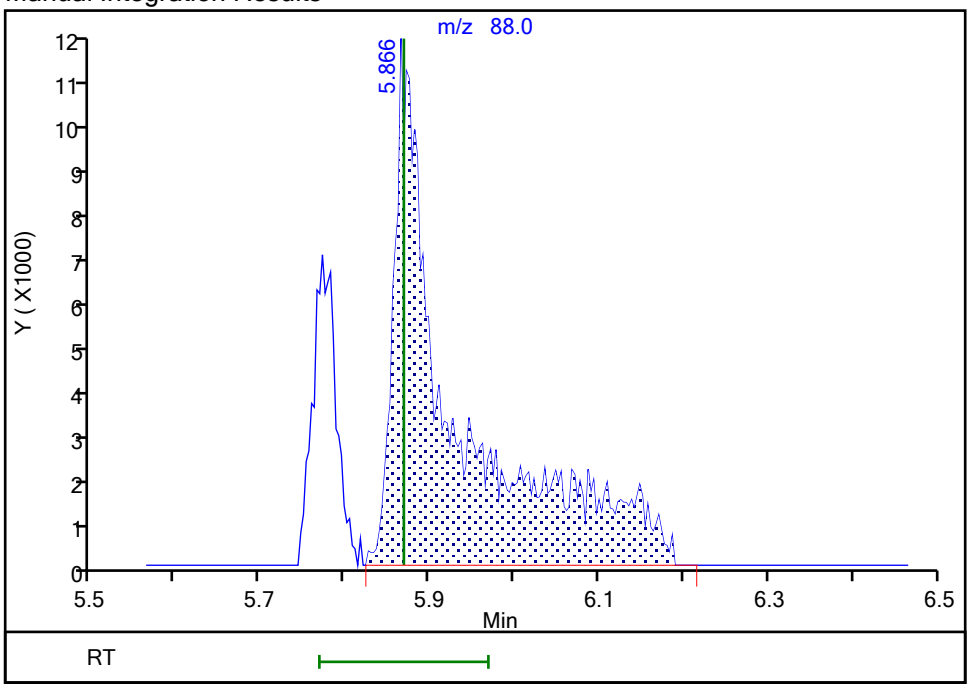
Processing Integration Results

RT: 5.87
Area: 37565
Amount: 414.7016
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 53790
Amount: 537.2764
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:16:03
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

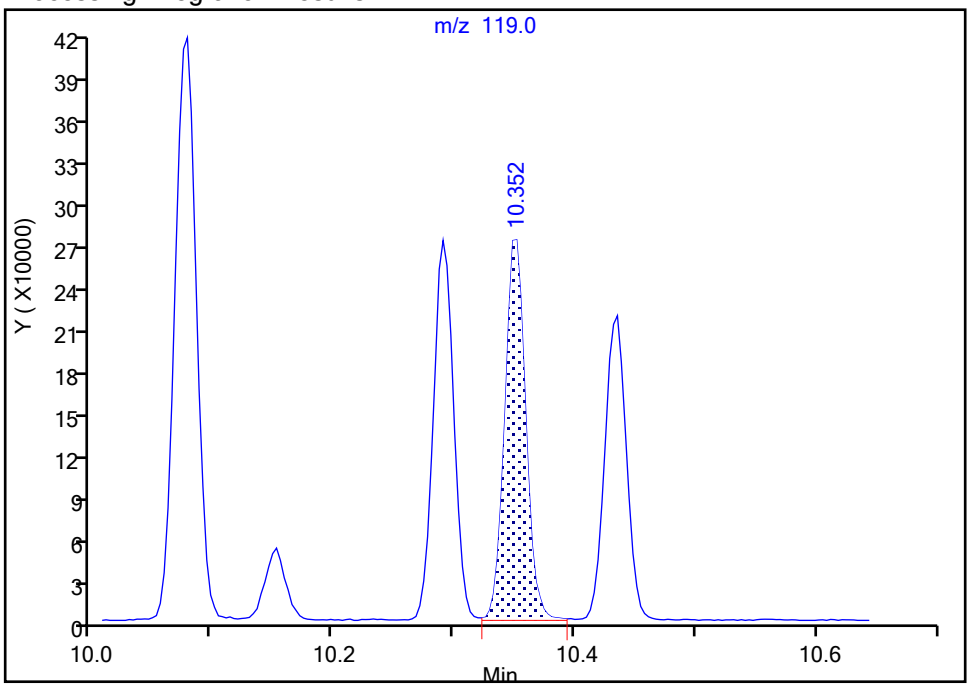
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I04.D
Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

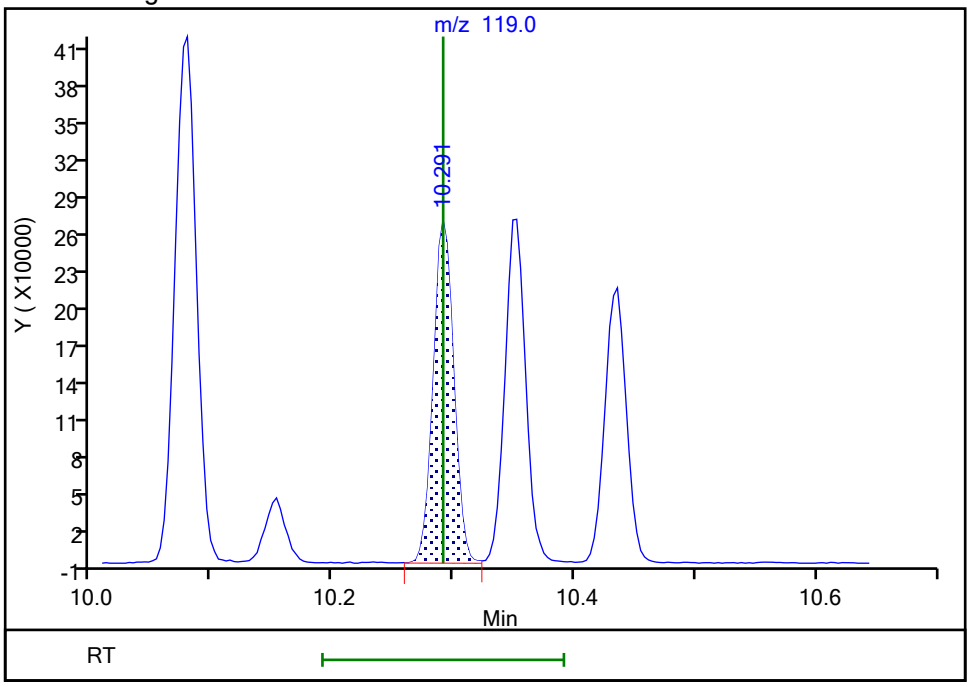
Processing Integration Results

RT: 10.35
Area: 324190
Amount: 21.690856
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 315821
Amount: 21.598625
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:37:21
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

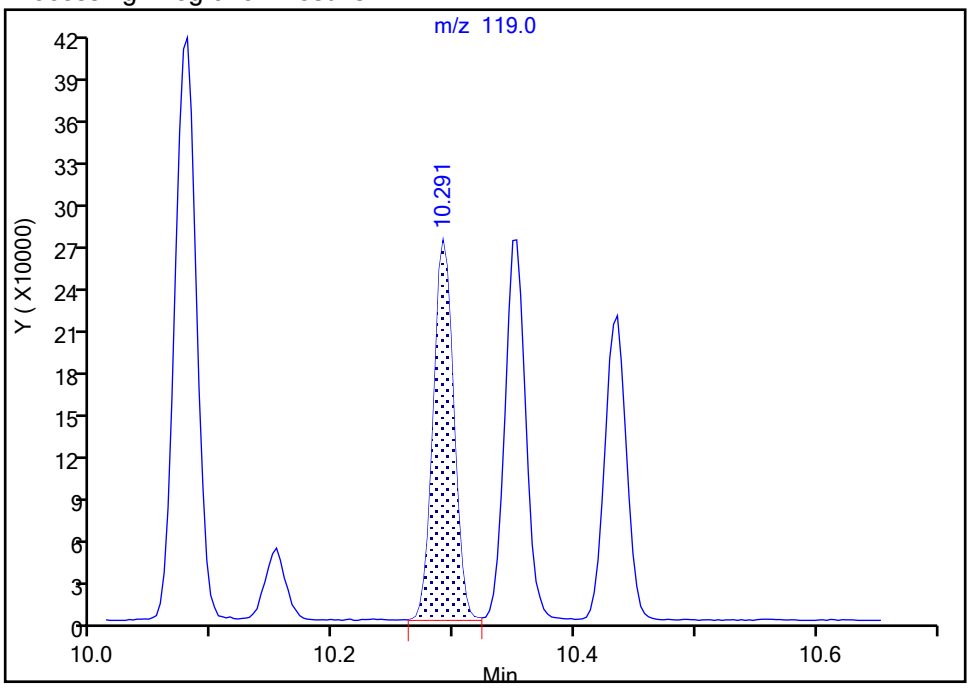
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Injection Date: 25-May-2021 16:54:30 Instrument ID: 9137
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

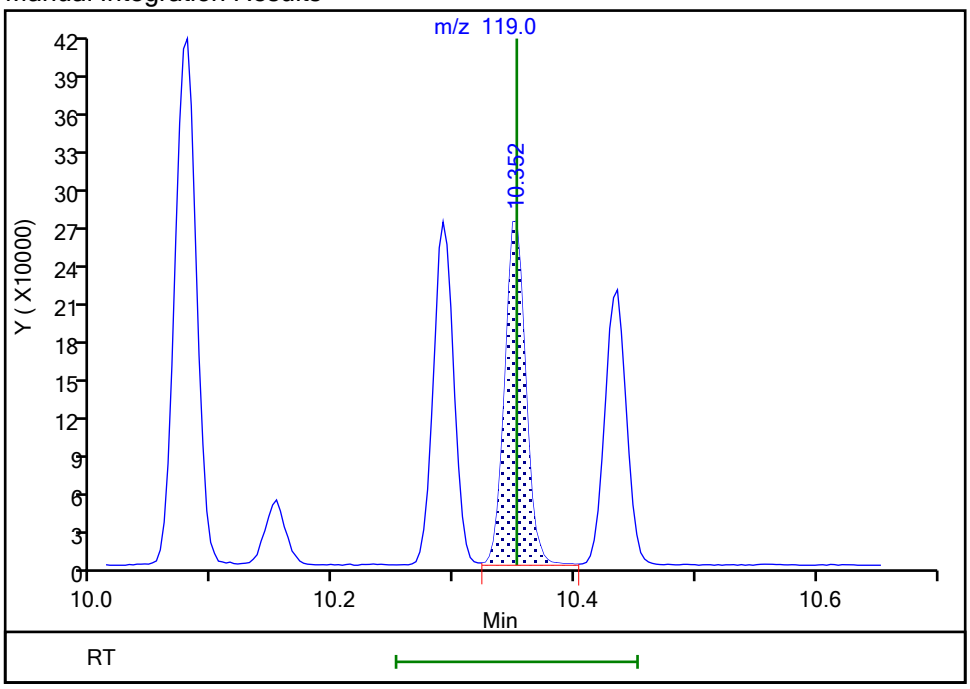
Processing Integration Results

RT: 10.29
Area: 315864
Amount: 21.363857
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 324677
Amount: 21.342835
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:37:33
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I05.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-May-2021 17:17:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-007
Misc. Info.: IC STD3
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:17:13 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 08:17:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.290	1.293	-0.003	99	51993	10.0	9.51	
3 Chloromethane	50	1.428	1.421	0.007	98	82265	10.0	9.95	
6 Vinyl chloride	62	1.502	1.502	0.000	98	81056	10.0	10.0	
7 Butadiene	39	1.518	1.518	0.000	93	70735	10.0	9.24	
8 Bromomethane	94	1.723	1.726	-0.003	90	54413	10.0	10.1	
9 Chloroethane	64	1.800	1.803	-0.003	100	51416	10.0	10.2	
10 Dichlorofluoromethane	67	1.932	1.932	0.000	97	108103	10.0	9.95	
11 Trichlorofluoromethane	101	1.980	1.980	0.000	99	78099	10.0	9.61	M
12 Pentane	43	2.031	2.038	-0.007	98	89957	10.0	8.61	
14 Ethanol	45	2.089	2.082	0.007	89	50700	500.0	530.7	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.204	2.208	-0.004	94	69232	10.0	9.61	M
16 Acrolein	56	2.281	2.281	0.000	99	195206	100.0	100.2	
17 1,1-Dichloroethene	96	2.391	2.387	0.004	98	59758	10.0	9.71	
19 112TCTFE	101	2.394	2.394	0.000	82	47527	10.0	8.93	
18 Acetone	58	2.403	2.403	0.000	99	16205	20.0	18.2	M
21 Isopropyl alcohol	45	2.519	2.519	0.000	63	41449	100.0	86.2	
22 Iodomethane	142	2.525	2.528	-0.003	98	115615	10.0	10.2	
23 Carbon disulfide	76	2.577	2.577	0.000	100	219153	10.0	10.0	
24 3-Chloro-1-propene	41	2.676	2.676	0.000	93	110328	10.0	10.4	
25 Methyl acetate	43	2.699	2.695	0.004	98	70929	10.0	9.31	
* 27 t-Butyl alcohol-d10 (IS)	65	2.811	2.808	0.003	41	262181	250.0	250.0	M
26 Methylene Chloride	84	2.817	2.814	0.003	75	75584	10.0	10.0	
28 2-Methyl-2-propanol	59	2.885	2.881	0.004	99	121908	100.0	103.7	M
29 Acrylonitrile	53	3.007	3.003	0.004	99	82372	25.0	22.5	
30 trans-1,2-Dichloroethene	96	3.036	3.035	0.001	72	66951	10.0	10.0	
31 Methyl tert-butyl ether	73	3.039	3.039	0.000	95	223946	10.0	9.61	
32 Hexane	57	3.295	3.295	0.000	93	51789	10.0	6.87	
34 1,1-Dichloroethane	63	3.424	3.424	0.000	96	122179	10.0	10.2	
35 Isopropyl ether	45	3.494	3.494	0.000	95	228210	10.0	9.82	
36 2-Chloro-1,3-butadiene	53	3.514	3.510	0.004	91	103696	10.0	9.45	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.847	3.844	0.003	99	230422	10.0	10.1	
40 cis-1,2-Dichloroethene	96	3.979	3.972	0.007	84	71716	10.0	9.87	
39 2,2-Dichloropropane	77	3.976	3.976	0.000	55	52766	10.0	10.4	
41 2-Butanone (MEK)	43	3.992	3.992	0.000	100	99707	20.0	18.4	
42 Propionitrile	54	4.046	4.043	0.003	99	133460	100.0	99.1	
43 Methacrylonitrile	67	4.197	4.194	0.003	93	202619	50.0	45.3	
44 Chlorobromomethane	128	4.204	4.204	0.000	97	34544	10.0	9.98	
45 Tetrahydrofuran	71	4.258	4.255	0.003	91	66933	50.0	47.3	
46 Chloroform	83	4.290	4.284	0.006	93	116130	10.0	9.96	
$ 48 Dibromofluoromethane (Surr)	113	4.444	4.438	0.006	94	278454	50.0	50.6	
49 1,1,1-Trichloroethane	97	4.473	4.470	0.003	98	91657	10.0	9.49	
50 Cyclohexane	56	4.534	4.534	0.000	93	88924	10.0	8.03	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	94	84567	10.0	9.43	
52 Carbon tetrachloride	117	4.637	4.634	0.003	81	75502	10.0	9.62	
54 Isobutyl alcohol	41	4.759	4.759	0.000	94	101462	250.0	259.5	M
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.772	0.006	98	74212	50.0	50.9	
56 Benzene	78	4.839	4.839	0.000	97	281199	10.0	10.0	
57 1,2-Dichloroethane	62	4.852	4.852	0.000	94	93606	10.0	9.61	
58 Tert-amyl methyl ether	73	4.964	4.961	0.003	98	221829	10.0	9.88	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	98	1208802	50.0	50.0	
60 n-Heptane	43	5.121	5.124	-0.003	38	52736	10.0	7.67	Ma
61 n-Butanol	56	5.439	5.436	0.003	89	122607	375.0	365.6	
62 Trichloroethene	95	5.494	5.494	0.000	99	69807	10.0	9.84	
63 Methylcyclohexane	83	5.699	5.699	0.000	92	64649	10.0	7.19	
64 1,2-Dichloropropane	63	5.718	5.721	-0.003	97	76283	10.0	9.92	
66 2-ethoxy-2-methyl butane	87	5.779	5.776	0.003	93	111975	10.0	10.1	
67 Dibromomethane	93	5.843	5.840	0.003	95	45604	10.0	9.79	
68 Methyl methacrylate	69	5.859	5.863	-0.004	91	74855	10.0	9.51	
69 1,4-Dioxane	88	5.869	5.869	0.000	30	28250	250.0	284.9	M
70 Dichlorobromomethane	83	6.013	6.013	0.000	100	89571	10.0	9.73	
S 73 1,2-Dichloroethene, Total	100				0			19.9	
71 2-Nitropropane	41	6.254	6.257	-0.003	98	143550	50.0	49.5	
72 2-Chloroethyl vinyl ether	63	6.350	6.344	0.006	91	58077	10.0	9.92	
74 cis-1,3-Dichloropropene	75	6.495	6.491	0.004	95	121833	10.0	9.91	
76 4-Methyl-2-pentanone (MIBK)	43	6.671	6.671	0.000	97	234267	20.0	19.3	
$ 77 Toluene-d8 (Surr)	98	6.784	6.783	0.001	94	1206179	50.0	50.2	
78 Toluene	92	6.854	6.854	0.000	97	178239	10.0	9.89	
79 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	95	114241	10.0	9.75	
80 Ethyl methacrylate	69	7.223	7.220	0.003	90	127716	10.0	9.42	
81 1,1,2-Trichloroethane	97	7.294	7.294	0.000	90	68269	10.0	9.71	
84 Tetrachloroethene	166	7.438	7.441	-0.003	96	63601	10.0	9.17	
85 1,3-Dichloropropane	76	7.464	7.464	0.000	93	118406	10.0	9.79	
88 2-Hexanone	43	7.567	7.563	0.004	97	173437	20.0	19.1	
89 Chlorodibromomethane	129	7.685	7.688	-0.003	90	72491	10.0	9.66	
90 Ethylene Dibromide	107	7.794	7.794	0.000	99	74784	10.0	9.84	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	86	918041	50.0	50.0	
93 1-Chlorohexane	91	8.250	8.250	0.000	95	69426	10.0	7.86	
94 Chlorobenzene	112	8.256	8.256	0.000	95	186413	10.0	9.70	
95 1,1,1,2-Tetrachloroethane	131	8.333	8.330	0.003	95	64638	10.0	9.84	
96 Ethylbenzene	91	8.362	8.362	0.000	98	320598	10.0	9.77	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	100	239884	20.0	18.9	
98 o-Xylene	106	8.802	8.799	0.003	97	123482	10.0	9.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Styrene	104	8.812	8.812	0.000	94	214883	10.0	9.63	
100 Bromoform	173	8.959	8.956	0.003	97	56263	10.0	9.49	
102 Isopropylbenzene	105	9.104	9.107	-0.003	96	265940	10.0	8.96	
103 Cyclohexanone	55	9.174	9.171	0.003	94	147104	250.0	272.3	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	89	464911	50.0	49.9	
105 Bromobenzene	156	9.341	9.338	0.003	94	80129	10.0	9.84	
106 1,1,2,2-Tetrachloroethane	83	9.341	9.338	0.003	89	119049	10.0	9.84	
107 1,2,3-Trichloropropane	110	9.370	9.370	0.000	83	33724	10.0	9.59	
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	95	198931	50.0	48.4	
109 N-Propylbenzene	91	9.431	9.431	0.000	99	305216	10.0	8.80	
111 2-Chlorotoluene	126	9.492	9.492	0.000	96	69429	10.0	9.46	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	94	219796	10.0	8.86	
113 4-Chlorotoluene	126	9.575	9.575	0.000	99	73160	10.0	9.39	
114 tert-Butylbenzene	134	9.810	9.809	0.001	93	43651	10.0	8.52	
115 Pentachloroethane	167	9.819	9.822	-0.003	91	44185	10.0	9.30	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	98	239118	10.0	9.12	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	216418	10.0	8.27	
118 1,3-Dichlorobenzene	146	10.050	10.047	0.003	98	138627	10.0	9.36	
S 123 1,3-Dichloropropene, Total	100				0			19.7	
119 4-Isopropyltoluene	119	10.079	10.079	0.000	97	195437	10.0	8.37	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	96	491155	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	96	145608	10.0	9.48	
122 1,2,3-Trimethylbenzene	105	10.150	10.153	-0.003	99	252303	10.0	9.25	
124 Benzyl chloride	91	10.211	10.211	0.000	99	240965	10.0	9.46	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	97	122465	10.0	8.57	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	95	126924	10.0	8.54	M
127 n-Butylbenzene	92	10.368	10.368	0.000	98	90919	10.0	8.15	
128 1,2-Dichlorobenzene	146	10.378	10.377	0.001	98	140377	10.0	9.51	
129 o-diethylbenzene	119	10.435	10.435	0.000	96	104990	10.0	8.49	
130 1,2-Dibromo-3-Chloropropane	75	10.913	10.913	0.000	86	29233	10.0	9.82	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	93	78378	10.0	8.60	
S 132 Xylenes, Total	106				0			28.6	
136 1,2,3-Trichlorobenzene	180	11.472	11.469	0.004	95	80868	10.0	8.94	
134 Hexachlorobutadiene	225	11.581	11.581	0.000	97	26155	10.0	7.56	
135 Naphthalene	128	11.632	11.632	0.000	97	341022	10.0	9.44	
131 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	97	77648	10.0	8.80	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	92	144609	10.0	8.43	
S 155 Total Diethylbenzene	1				0			25.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_V_ETOH_00012	Amount Added:	8.00	Units: uL	
MSV_VCYC_00006	Amount Added:	8.00	Units: uL	
MSV_CCV_2CEVE_00002	Amount Added:	2.00	Units: uL	
MSV_CCV_Penta_00001	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00002	Amount Added:	1.60	Units: uL	
MSV_V_VOA2_00088	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#1_00002	Amount Added:	2.00	Units: uL	
MSV_CCV_GASES_00003	Amount Added:	1.00	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:17:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I05.D

Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137 Operator ID: kas02648

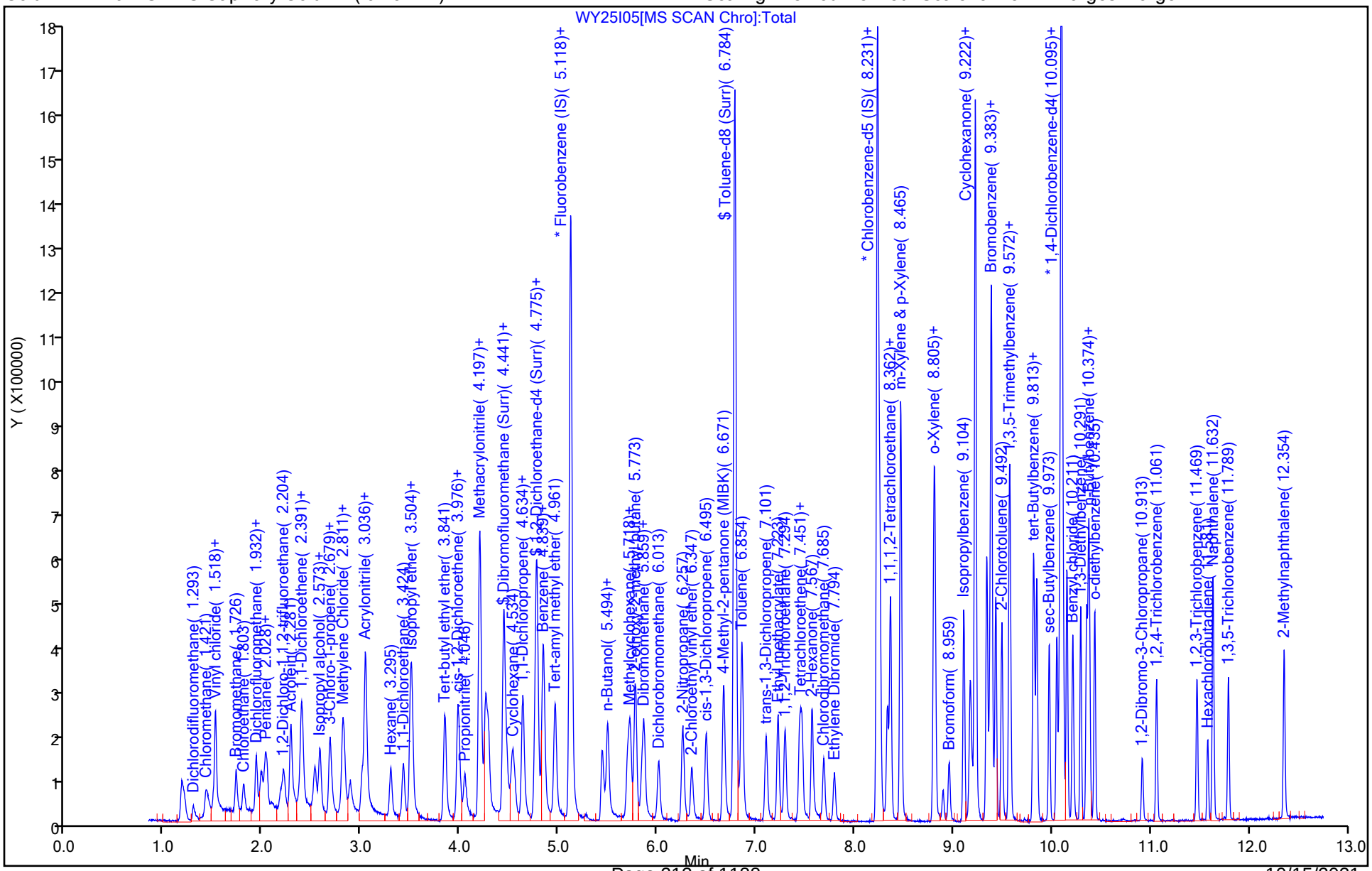
Lims ID: IC std3 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: MSVoa_9137 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

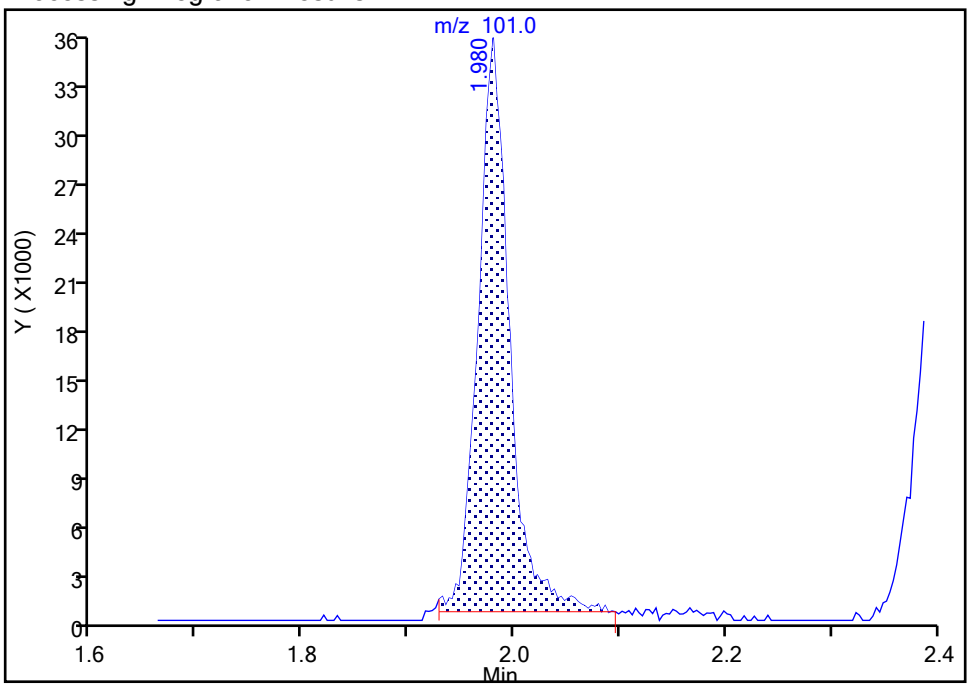
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

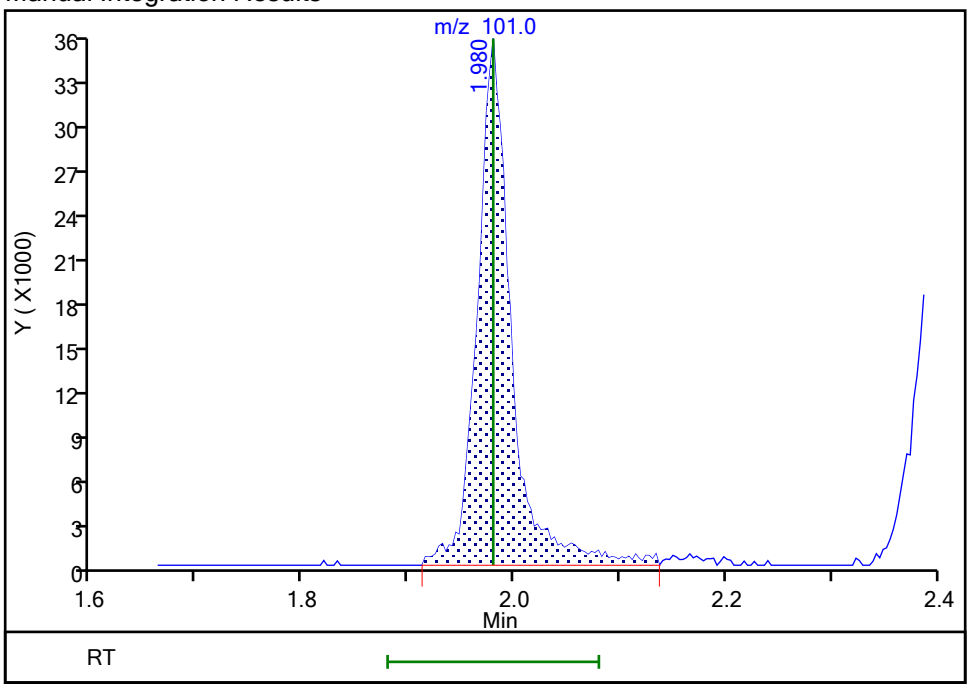
Processing Integration Results

RT: 1.98
Area: 71126
Amount: 8.856837
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 78099
Amount: 9.605982
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:18:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

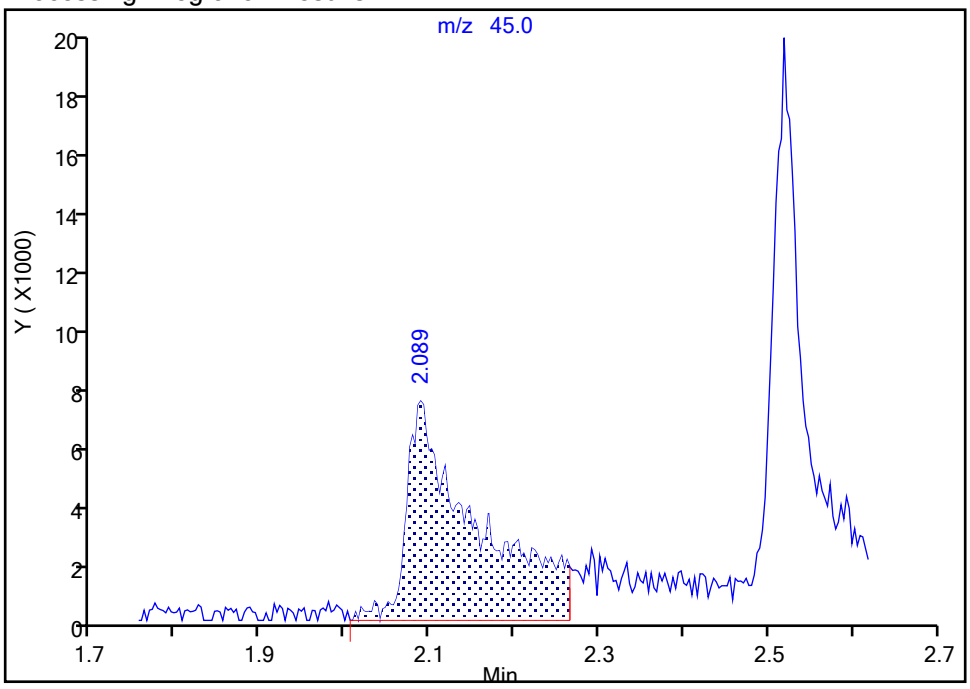
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

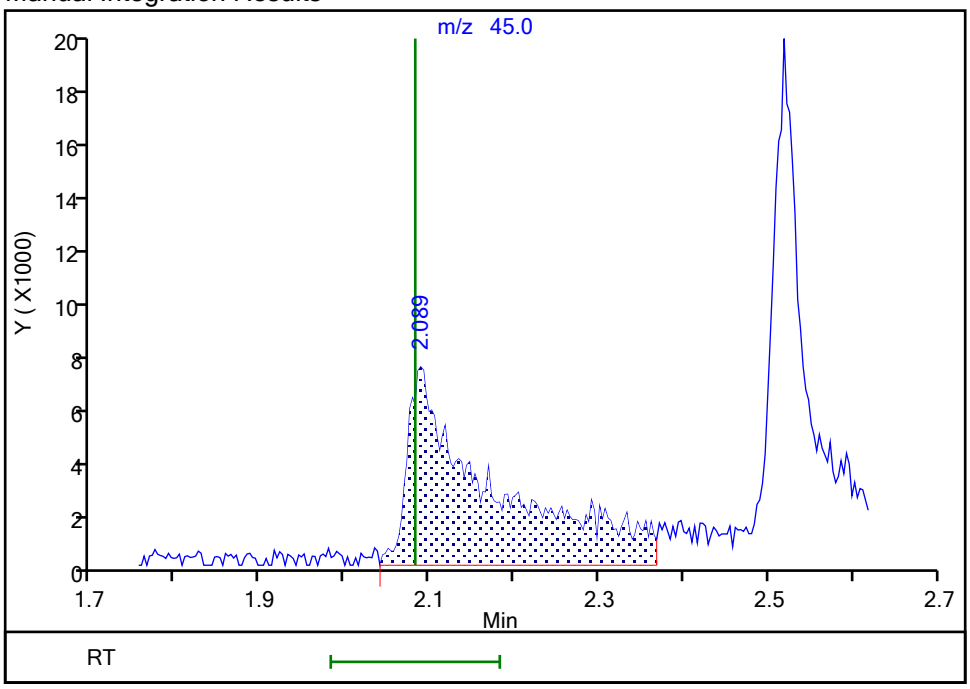
Processing Integration Results

RT: 2.09
Area: 41994
Amount: 567.9031
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 50700
Amount: 530.6875
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:20:32
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

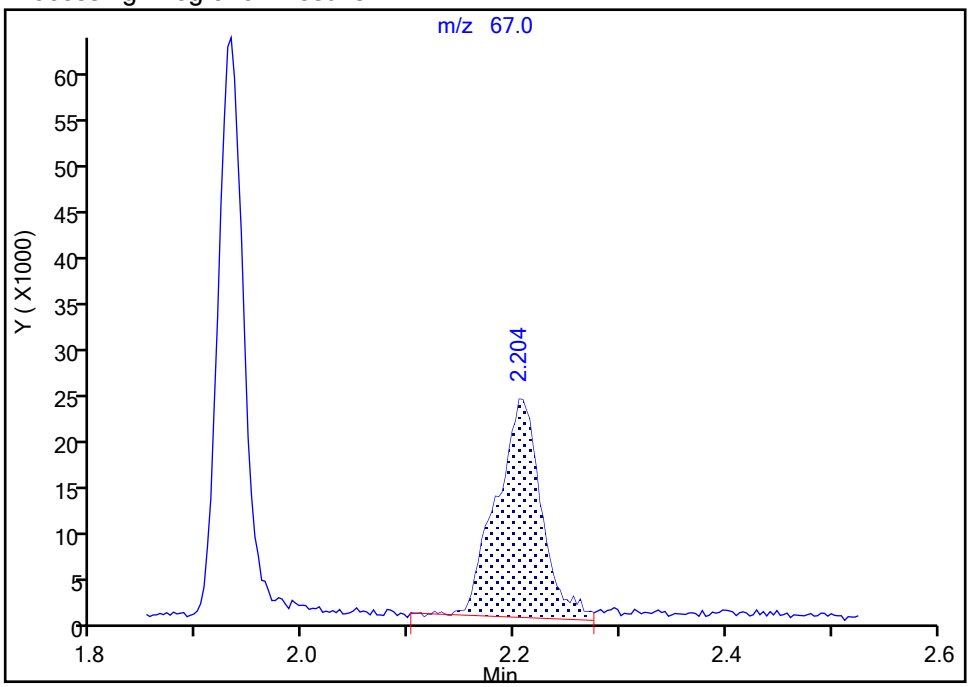
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Injection Date:	25-May-2021 17:17:30	Instrument ID:	9137		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

15 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

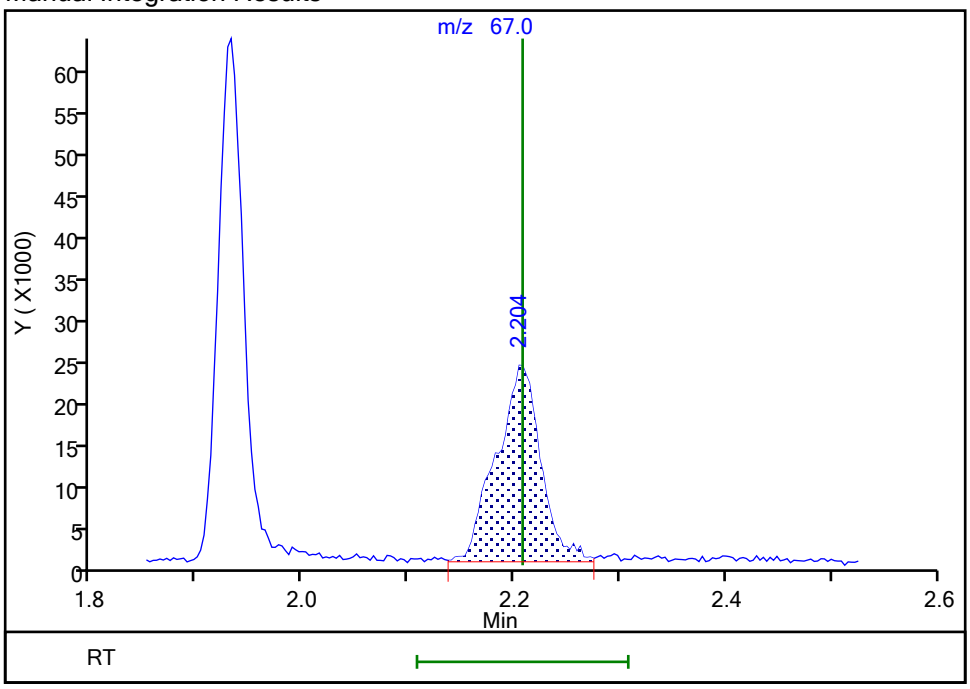
Processing Integration Results

RT: 2.20
Area: 70078
Amount: 9.902954
Amount Units: ug/l



Manual Integration Results

RT: 2.20
Area: 69232
Amount: 9.610329
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:21:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

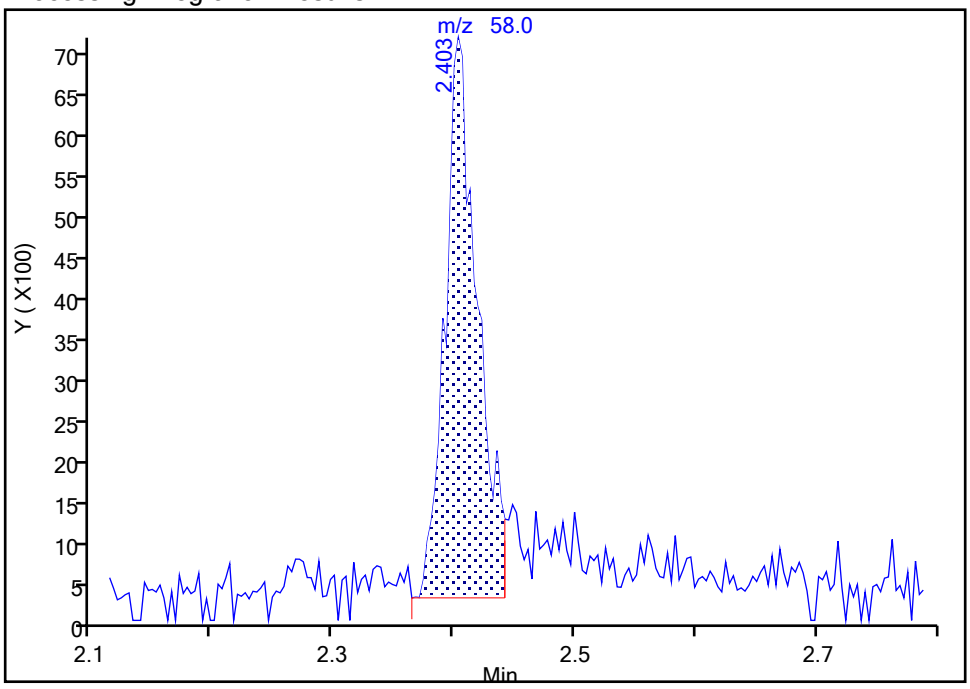
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

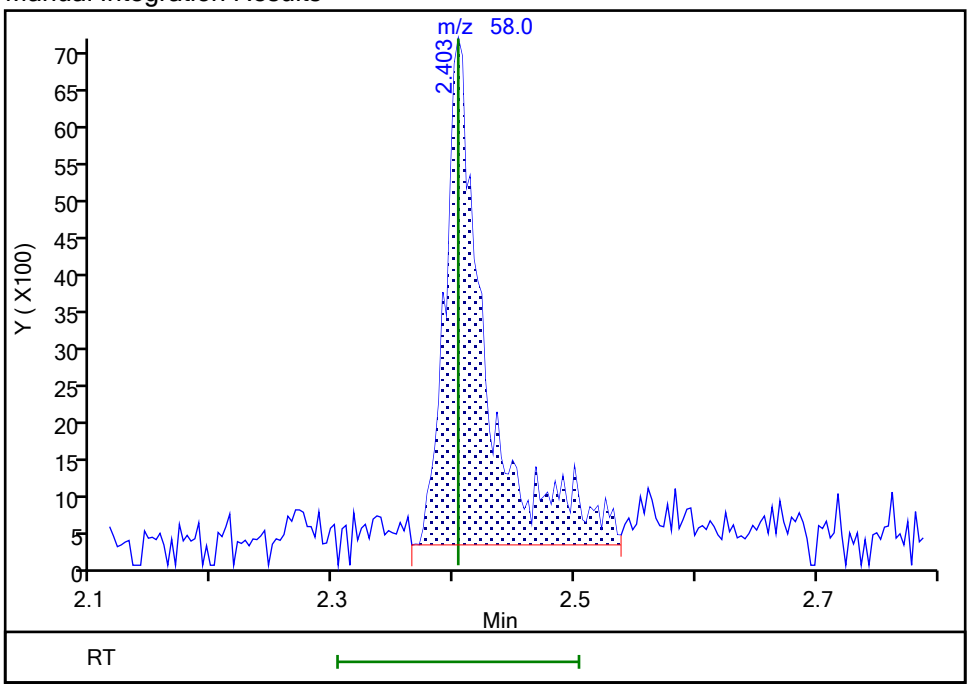
Processing Integration Results

RT: 2.40
Area: 12781
Amount: 16.987873
Amount Units: ug/l



Manual Integration Results

RT: 2.40
Area: 16205
Amount: 18.159617
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:39:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

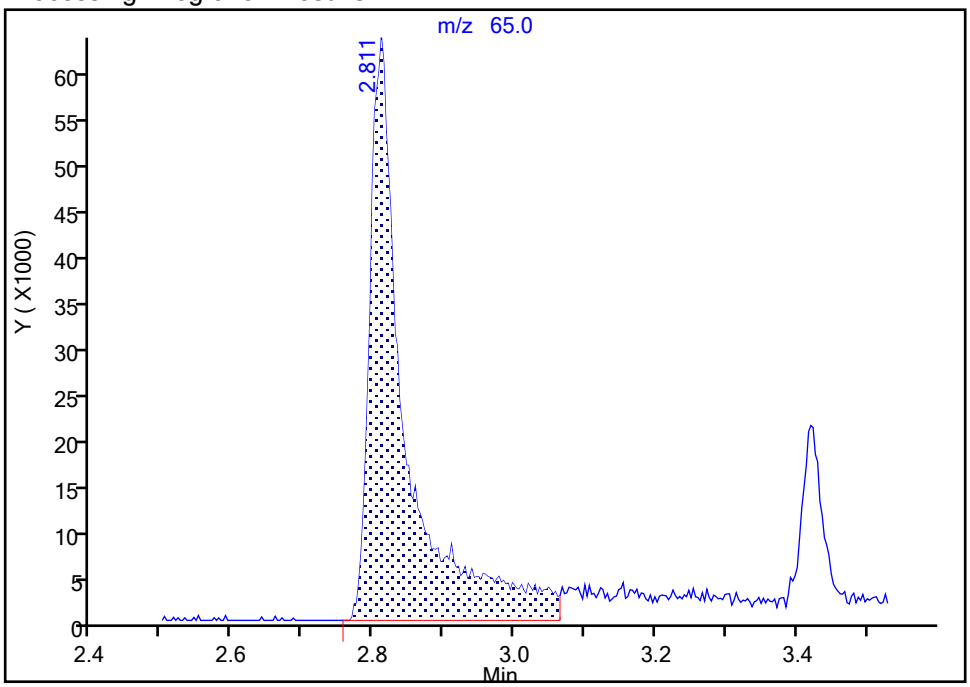
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

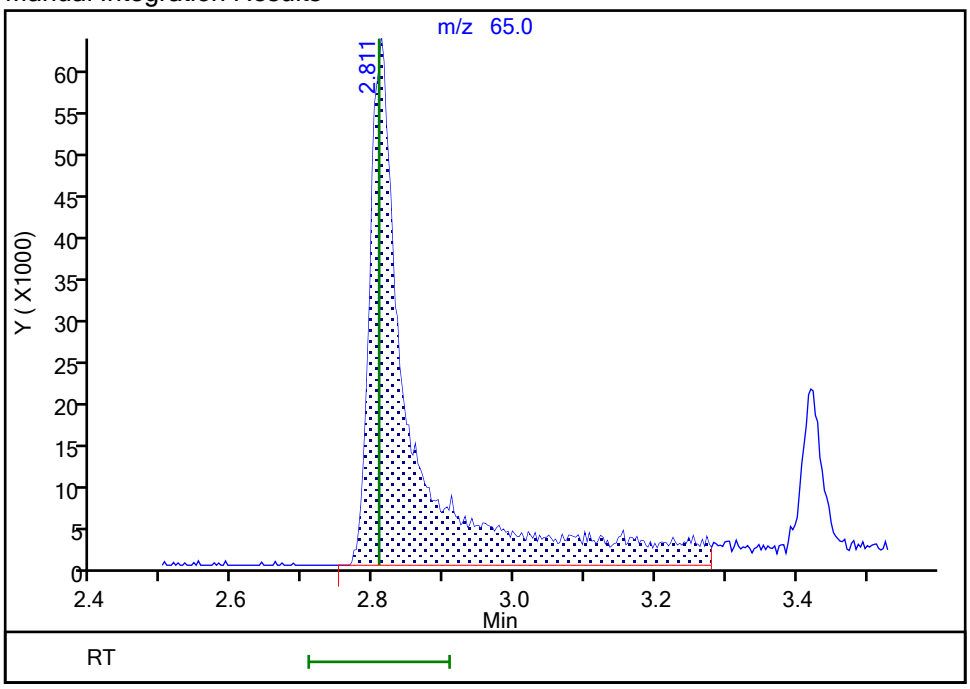
Processing Integration Results

RT: 2.81
Area: 225407
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 262181
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:23:48
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

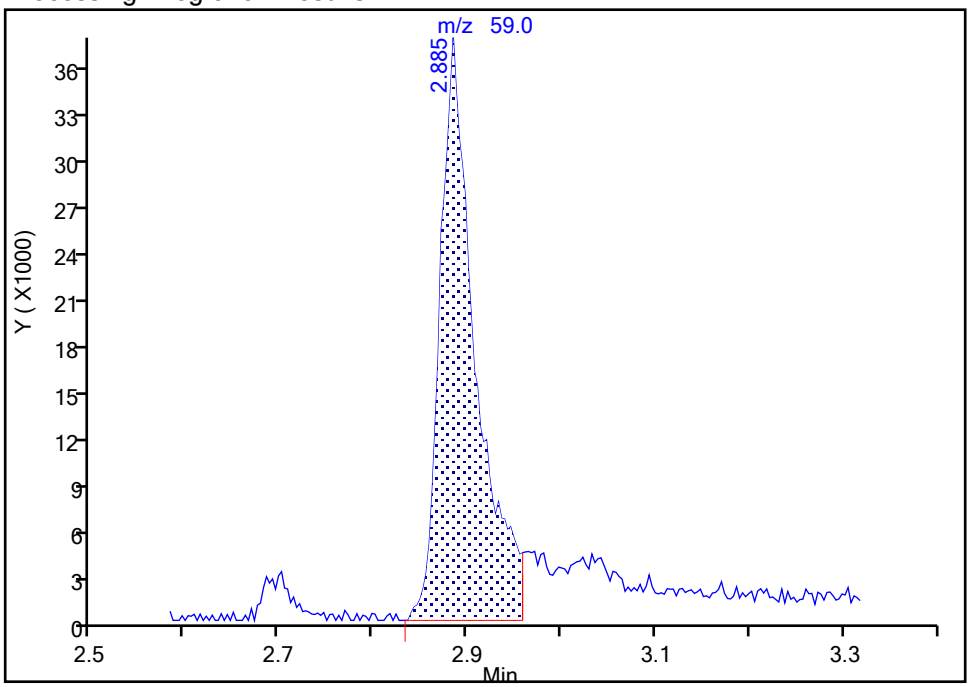
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

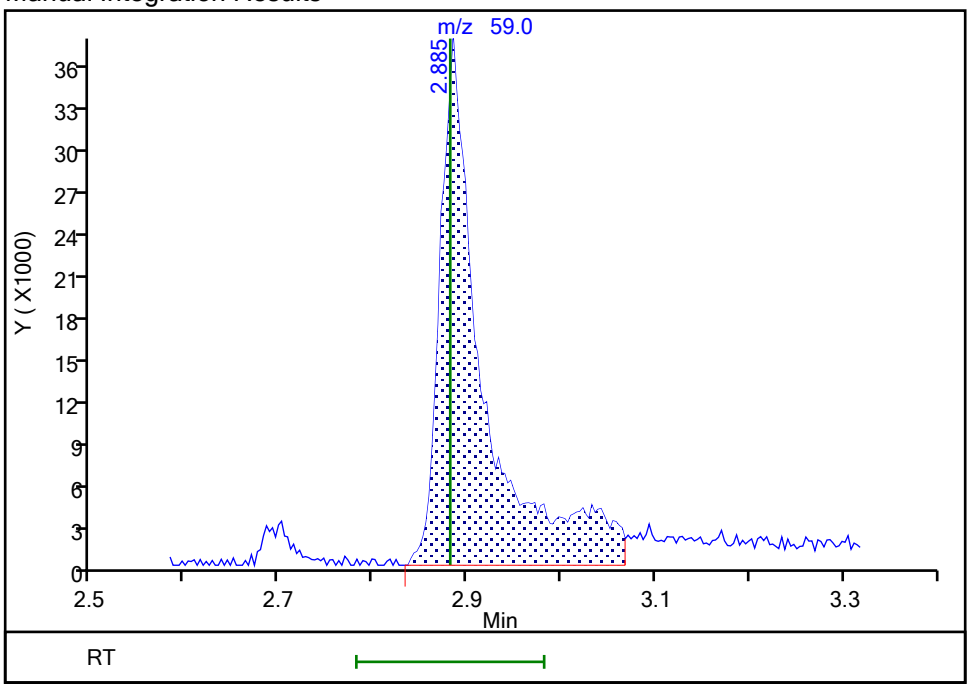
Processing Integration Results

RT: 2.88
Area: 98743
Amount: 88.387800
Amount Units: ug/l



Manual Integration Results

RT: 2.88
Area: 121908
Amount: 103.6726
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:42:03
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

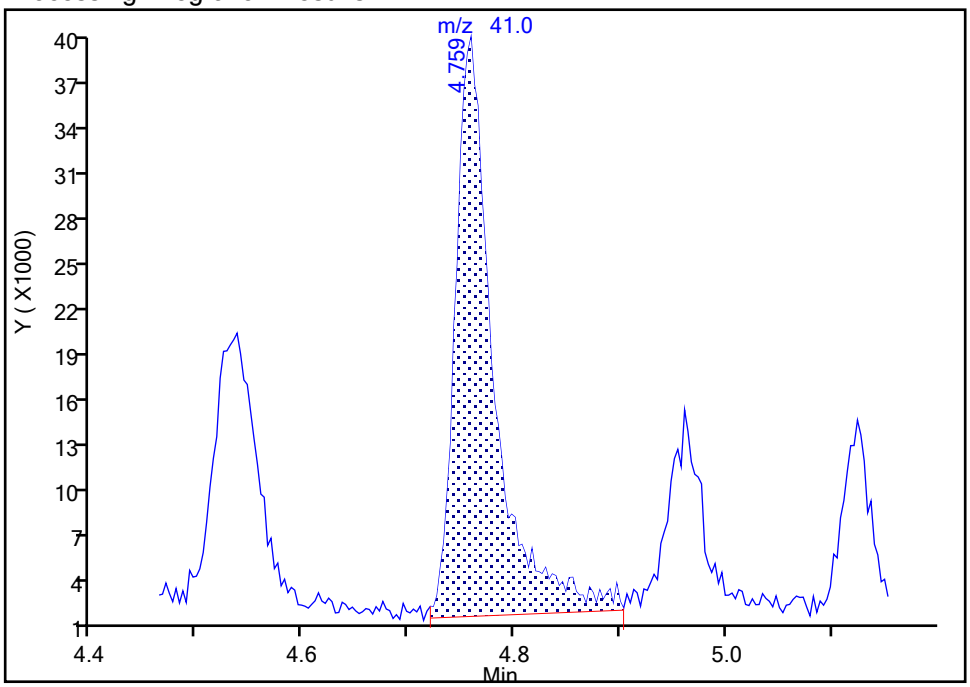
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

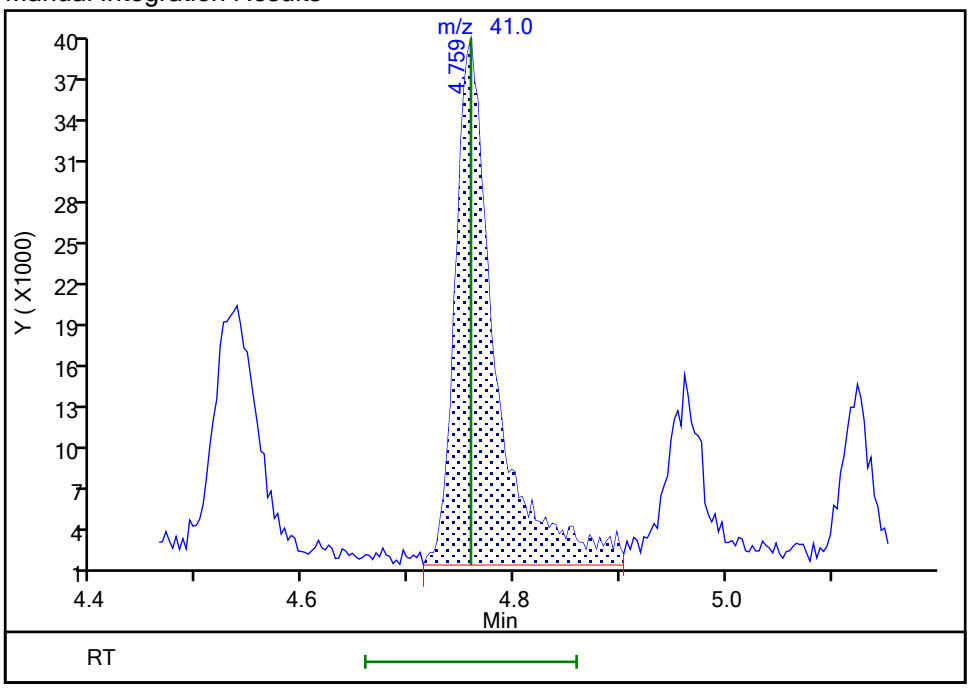
Processing Integration Results

RT: 4.76
Area: 96898
Amount: 243.8334
Amount Units: ug/l



Manual Integration Results

RT: 4.76
Area: 101462
Amount: 259.4542
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:24:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

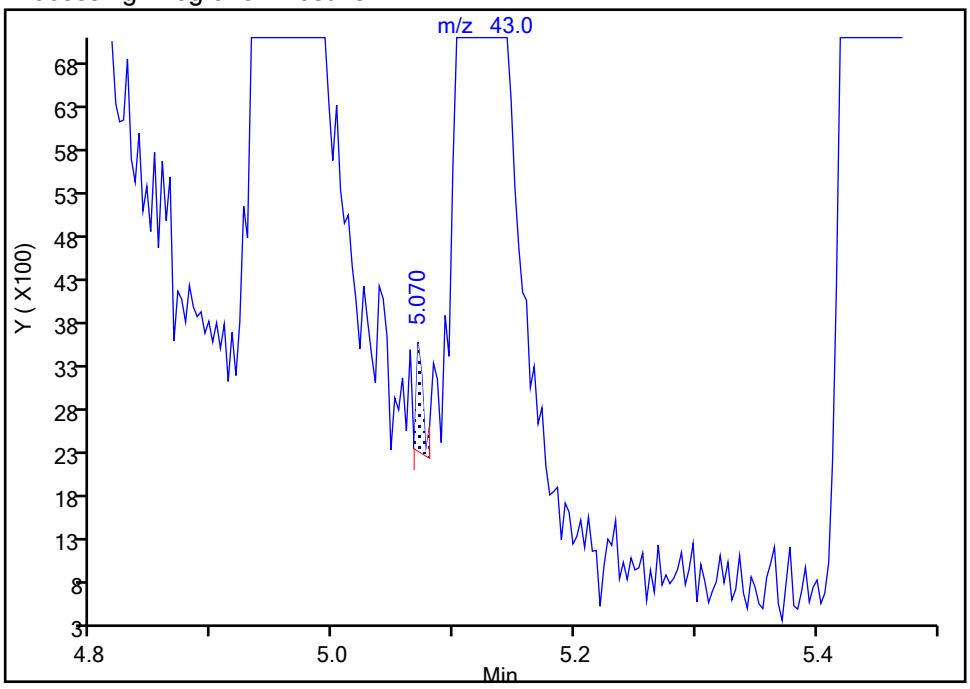
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

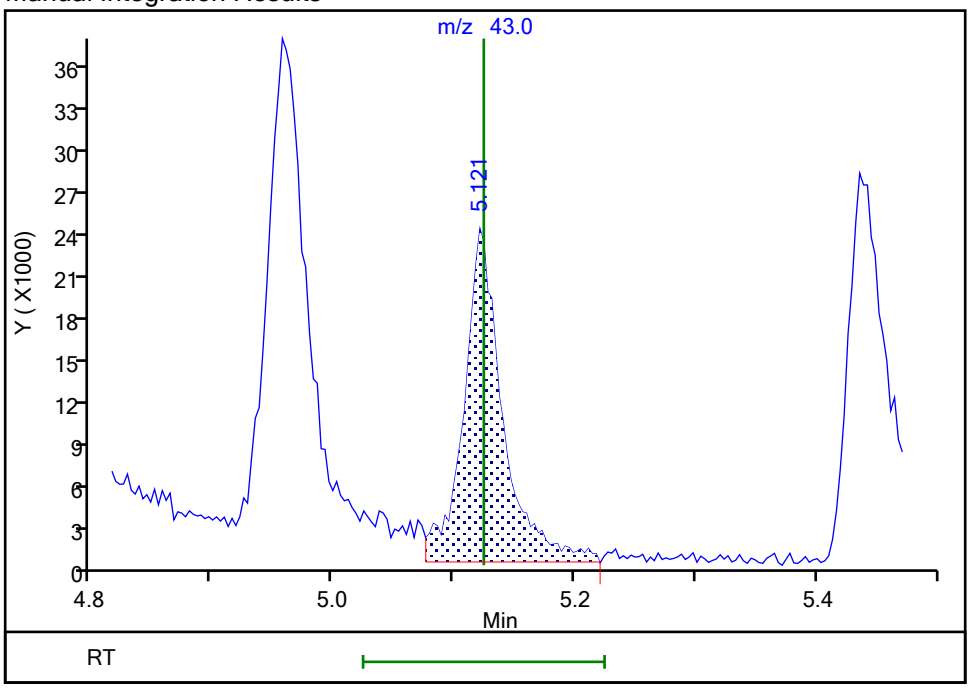
Processing Integration Results

RT: 5.07
Area: 495
Amount: 0.080804
Amount Units: ug/l



Manual Integration Results

RT: 5.12
Area: 52736
Amount: 7.673801
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:45:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

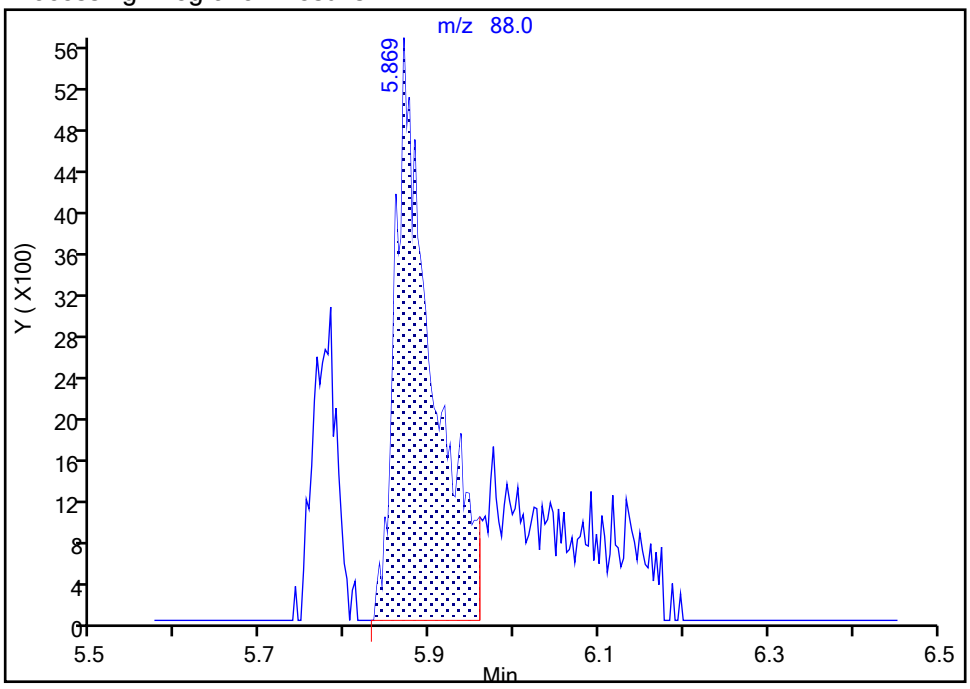
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

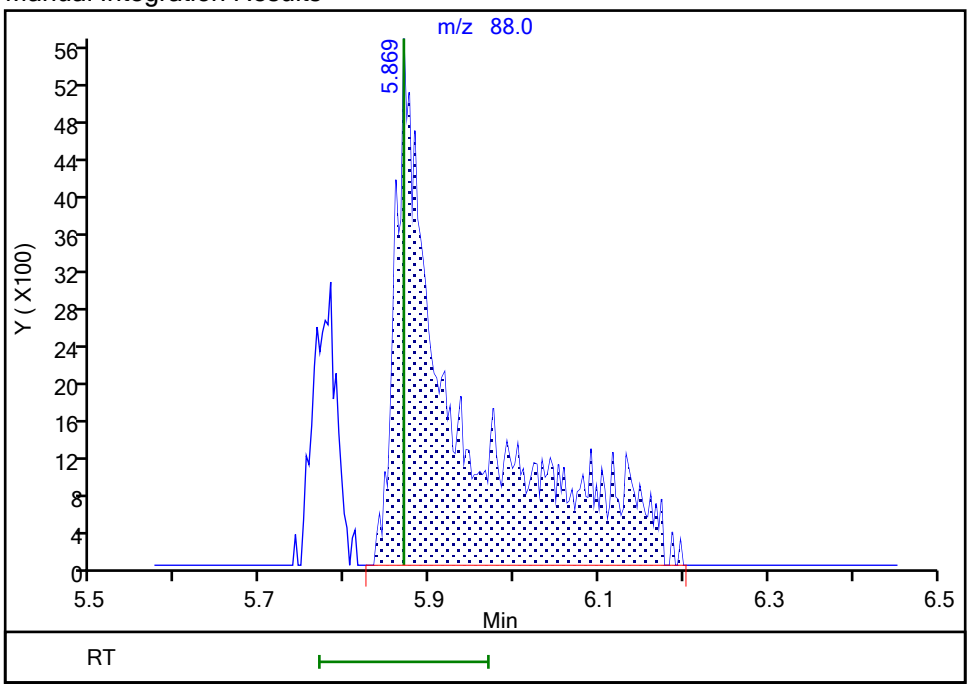
Processing Integration Results

RT: 5.87
Area: 16821
Amount: 182.9833
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 28250
Amount: 284.9299
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:25:50
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

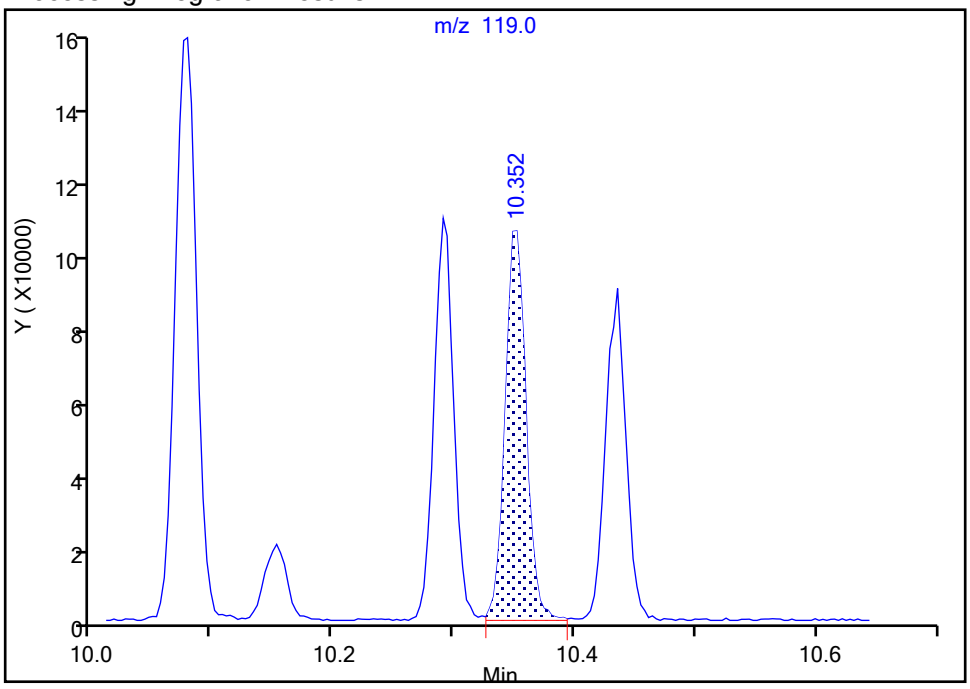
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I05.D
Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

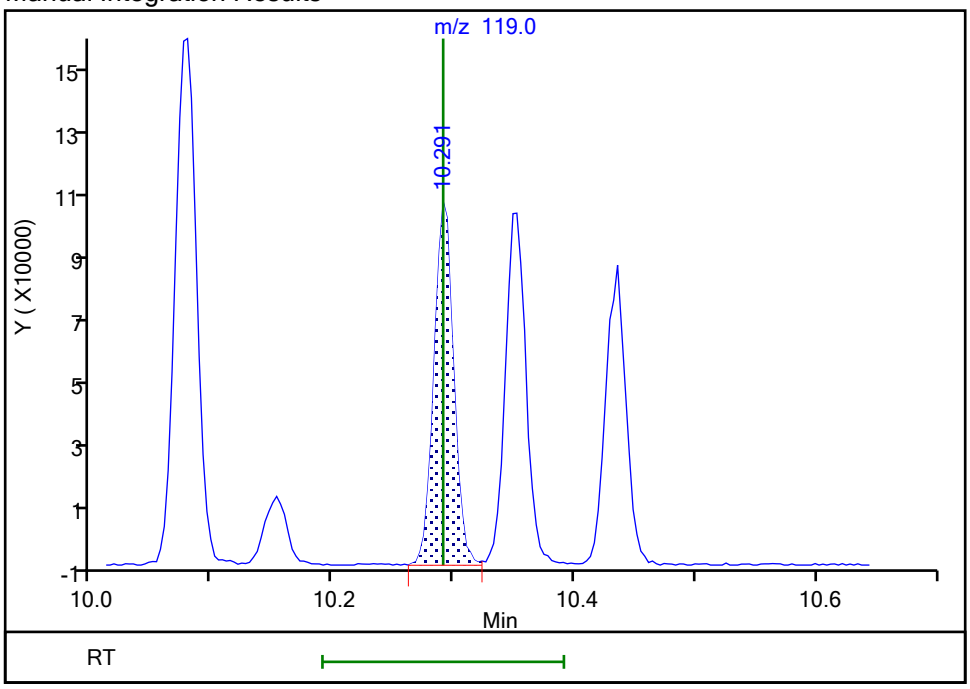
Processing Integration Results

RT: 10.35
Area: 125888
Amount: 8.658394
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 122465
Amount: 8.574968
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:38:12
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

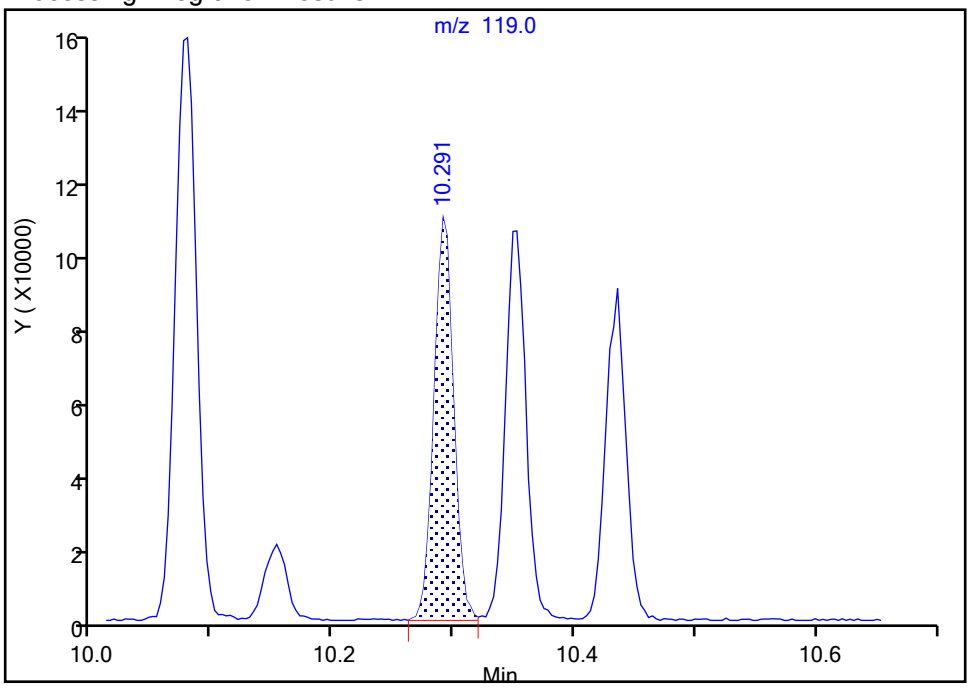
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Injection Date: 25-May-2021 17:17:30 Instrument ID: 9137
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

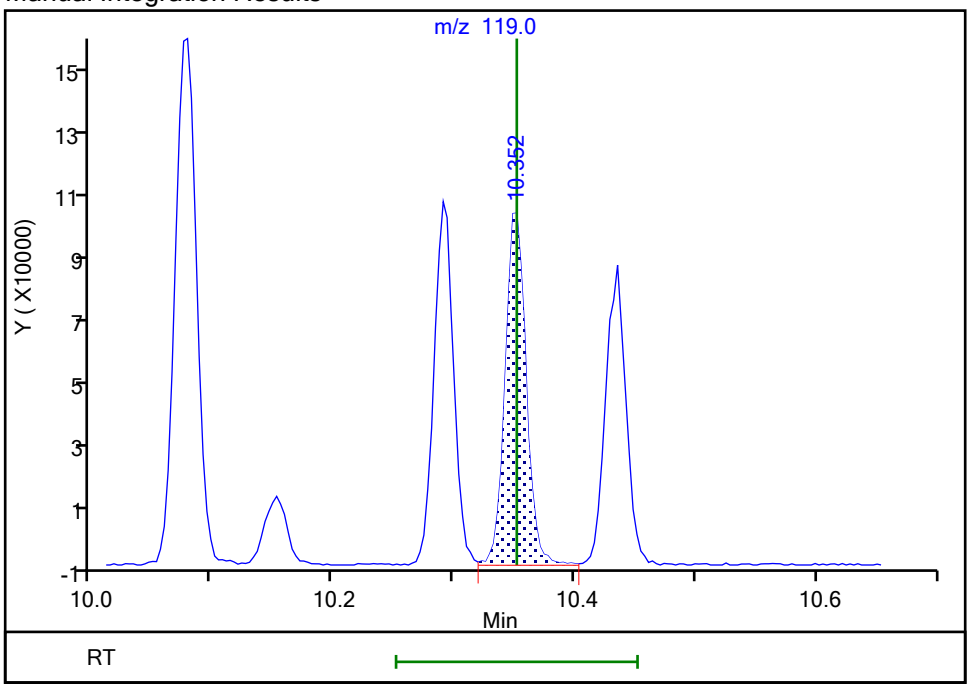
Processing Integration Results

RT: 10.29
Area: 122048
Amount: 8.415898
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 126924
Amount: 8.542397
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:38:26
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-May-2021 17:39:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-008
Misc. Info.: IC STD2
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:17:19 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 08:38:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.290	1.293	-0.003	99	22813	4.00	4.14	M
3 Chloromethane	50	1.425	1.421	0.004	99	33054	4.00	3.97	M
6 Vinyl chloride	62	1.505	1.502	0.003	97	33662	4.00	4.12	
7 Butadiene	39	1.518	1.518	0.000	91	31252	4.00	4.05	M
8 Bromomethane	94	1.723	1.726	-0.003	90	22237	4.00	4.08	
9 Chloroethane	64	1.803	1.803	0.000	98	19950	4.00	3.94	
10 Dichlorofluoromethane	67	1.928	1.932	-0.004	97	42630	4.00	3.90	
11 Trichlorofluoromethane	101	1.980	1.980	0.000	98	33100	4.00	4.04	
12 Pentane	43	2.028	2.038	-0.010	97	38106	4.00	3.62	
14 Ethanol	45	2.079	2.082	-0.003	24	26917	250.0	244.5	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.204	2.208	-0.004	98	29503	4.00	4.07	
16 Acrolein	56	2.281	2.281	0.000	99	74203	40.0	35.6	M
17 1,1-Dichloroethene	96	2.387	2.387	0.000	97	25160	4.00	4.06	
19 112TCTFE	101	2.387	2.394	-0.007	65	21965	4.00	4.10	
18 Acetone	58	2.406	2.403	0.003	24	8654	8.00	7.85	M
21 Isopropyl alcohol	45	2.522	2.519	0.003	56	33167	80.0	68.4	M
22 Iodomethane	142	2.528	2.528	0.000	96	47161	4.00	4.15	
23 Carbon disulfide	76	2.573	2.577	-0.004	100	92021	4.00	4.19	
24 3-Chloro-1-propene	41	2.676	2.676	0.000	92	41993	4.00	3.92	
25 Methyl acetate	43	2.692	2.695	-0.003	90	29788	4.00	3.88	M
* 27 t-Butyl alcohol-d10 (IS)	65	2.811	2.808	0.003	44	280082	250.0	250.0	M
26 Methylene Chloride	84	2.817	2.814	0.003	91	31894	4.00	4.19	
28 2-Methyl-2-propanol	59	2.888	2.881	0.007	99	94254	80.0	75.0	M
29 Acrylonitrile	53	3.007	3.003	0.004	98	34297	10.0	9.30	M
30 trans-1,2-Dichloroethene	96	3.032	3.035	-0.003	70	27281	4.00	4.05	
31 Methyl tert-butyl ether	73	3.045	3.039	0.006	96	91643	4.00	3.91	
32 Hexane	57	3.292	3.295	-0.003	95	29331	4.00	3.86	
34 1,1-Dichloroethane	63	3.424	3.424	0.000	95	48474	4.00	4.02	a
35 Isopropyl ether	45	3.494	3.494	0.000	93	90820	4.00	3.88	
36 2-Chloro-1,3-butadiene	53	3.517	3.510	0.007	91	46365	4.00	4.20	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.841	3.844	-0.003	97	89472	4.00	3.89	
40 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	84	29643	4.00	4.05	
39 2,2-Dichloropropane	77	3.972	3.976	-0.004	55	21458	4.00	4.21	
41 2-Butanone (MEK)	43	3.995	3.992	0.003	100	38248	8.00	7.00	a
42 Propionitrile	54	4.046	4.043	0.003	99	102267	80.0	71.1	
43 Methacrylonitrile	67	4.197	4.194	0.003	92	175409	40.0	39.0	M
44 Chlorobromomethane	128	4.197	4.204	-0.007	74	13887	4.00	3.98	a
45 Tetrahydrofuran	71	4.255	4.255	0.000	90	28133	20.0	18.6	
46 Chloroform	83	4.287	4.284	0.003	93	48527	4.00	4.13	a
$ 48 Dibromofluoromethane (Surr)	113	4.441	4.438	0.003	93	274847	50.0	49.6	
49 1,1,1-Trichloroethane	97	4.467	4.470	-0.003	98	41792	4.00	4.30	
50 Cyclohexane	56	4.531	4.534	-0.003	92	44443	4.00	3.98	
51 1,1-Dichloropropene	75	4.637	4.634	0.003	93	37732	4.00	4.18	
52 Carbon tetrachloride	117	4.630	4.634	-0.004	75	32413	4.00	4.10	
54 Isobutyl alcohol	41	4.752	4.759	-0.007	96	69815	200.0	167.1	M
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.772	0.003	99	72816	50.0	49.6	
56 Benzene	78	4.836	4.839	-0.003	97	114713	4.00	4.05	
57 1,2-Dichloroethane	62	4.855	4.852	0.003	97	39708	4.00	4.05	
58 Tert-amyl methyl ether	73	4.964	4.961	0.003	98	92077	4.00	4.07	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	98	1217051	50.0	50.0	
60 n-Heptane	43	5.124	5.124	0.000	46	32042	4.00	4.63	a
61 n-Butanol	56	5.442	5.436	0.006	88	127958	350.0	357.2	M
62 Trichloroethene	95	5.497	5.494	0.003	98	29296	4.00	4.10	M
63 Methylcyclohexane	83	5.699	5.699	0.000	90	36337	4.00	4.02	
64 1,2-Dichloropropane	63	5.725	5.721	0.003	95	30493	4.00	3.94	
66 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	93	44599	4.00	3.98	
67 Dibromomethane	93	5.843	5.840	0.003	96	18704	4.00	3.99	
68 Methyl methacrylate	69	5.869	5.863	0.006	95	31289	4.00	3.95	
69 1,4-Dioxane	88	5.869	5.869	0.000	52	20611	200.0	194.6	M
70 Dichlorobromomethane	83	6.013	6.013	0.000	98	36189	4.00	3.90	
S 73 1,2-Dichloroethene, Total	100				0			8.10	
71 2-Nitropropane	41	6.260	6.257	0.003	98	59294	20.0	19.1	
72 2-Chloroethyl vinyl ether	63	6.350	6.344	0.006	92	21843	4.00	3.71	M
74 cis-1,3-Dichloropropene	75	6.495	6.491	0.004	95	48296	4.00	3.90	
76 4-Methyl-2-pentanone (MIBK)	43	6.671	6.671	0.000	97	85601	8.00	7.01	
$ 77 Toluene-d8 (Surr)	98	6.783	6.783	0.000	94	1203686	50.0	50.5	
78 Toluene	92	6.857	6.854	0.003	98	73130	4.00	4.09	
79 trans-1,3-Dichloropropene	75	7.104	7.101	0.003	94	45681	4.00	3.93	
80 Ethyl methacrylate	69	7.226	7.220	0.006	90	54270	4.00	4.04	
81 1,1,2-Trichloroethane	97	7.297	7.294	0.003	89	29280	4.00	4.20	Ma
84 Tetrachloroethene	166	7.441	7.441	0.000	97	28636	4.00	4.16	
85 1,3-Dichloropropane	76	7.467	7.464	0.003	93	47604	4.00	3.97	
88 2-Hexanone	43	7.570	7.563	0.007	97	63491	8.00	7.06	
89 Chlorodibromomethane	129	7.685	7.688	-0.003	90	28646	4.00	3.85	
90 Ethylene Dibromide	107	7.794	7.794	0.000	95	30582	4.00	4.06	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	87	910141	50.0	50.0	
93 1-Chlorohexane	91	8.250	8.250	0.000	93	35262	4.00	4.02	
94 Chlorobenzene	112	8.256	8.256	0.000	94	78347	4.00	4.11	
95 1,1,1,2-Tetrachloroethane	131	8.327	8.330	-0.003	95	25747	4.00	3.95	
96 Ethylbenzene	91	8.362	8.362	0.000	98	134201	4.00	4.13	
97 m-Xylene & p-Xylene	106	8.468	8.465	0.003	99	103491	8.00	8.24	
98 o-Xylene	106	8.805	8.799	0.006	97	51501	4.00	4.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Styrene	104	8.815	8.812	0.003	94	88712	4.00	4.01	
100 Bromoform	173	8.956	8.956	0.000	96	22537	4.00	3.84	
102 Isopropylbenzene	105	9.103	9.107	-0.004	95	124827	4.00	4.24	
103 Cyclohexanone	55	9.171	9.171	0.000	93	122014	200.0	211.4	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	91	463559	50.0	50.2	
105 Bromobenzene	156	9.341	9.338	0.003	93	33670	4.00	4.18	
106 1,1,2,2-Tetrachloroethane	83	9.341	9.338	0.003	92	47231	4.00	3.94	
107 1,2,3-Trichloropropane	110	9.367	9.370	-0.003	83	14605	4.00	4.20	
108 trans-1,4-Dichloro-2-butene	53	9.383	9.386	-0.003	95	156856	40.0	38.6	
109 N-Propylbenzene	91	9.431	9.431	0.000	99	150753	4.00	4.39	
111 2-Chlorotoluene	126	9.492	9.492	0.000	97	30695	4.00	4.22	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	94	105799	4.00	4.31	
113 4-Chlorotoluene	126	9.578	9.575	0.003	98	32034	4.00	4.15	
114 tert-Butylbenzene	134	9.813	9.809	0.004	92	21170	4.00	4.18	
115 Pentachloroethane	167	9.822	9.822	0.000	83	20466	4.00	4.35	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	97	108281	4.00	4.17	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	111271	4.00	4.29	
118 1,3-Dichlorobenzene	146	10.050	10.047	0.003	97	60207	4.00	4.11	
S 123 1,3-Dichloropropene, Total	100				0			7.84	
119 4-Isopropyltoluene	119	10.079	10.079	0.000	97	98412	4.00	4.25	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	96	486297	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	94	64360	4.00	4.23	
122 1,2,3-Trimethylbenzene	105	10.153	10.153	0.000	99	111998	4.00	4.15	
124 Benzyl chloride	91	10.211	10.211	0.000	99	98362	4.00	3.90	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	94	60999	4.00	4.31	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	93	62909	4.00	4.28	M
127 n-Butylbenzene	92	10.371	10.368	0.003	98	47658	4.00	4.31	
128 1,2-Dichlorobenzene	146	10.381	10.377	0.004	97	62260	4.00	4.26	
129 o-diethylbenzene	119	10.435	10.435	0.000	96	53473	4.00	4.37	
130 1,2-Dibromo-3-Chloropropane	75	10.913	10.913	0.000	84	12415	4.00	4.21	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	94	37478	4.00	4.15	
S 132 Xylenes, Total	106				0			12.3	
136 1,2,3-Trichlorobenzene	180	11.472	11.469	0.004	96	37451	4.00	4.18	
134 Hexachlorobutadiene	225	11.584	11.581	0.003	96	14870	4.00	4.34	
135 Naphthalene	128	11.635	11.632	0.003	97	151221	4.00	4.23	
131 1,3,5-Trichlorobenzene	180	11.793	11.789	0.004	97	37440	4.00	4.29	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	92	67352	4.00	3.97	
S 155 Total Diethylbenzene	1				0			13.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_VCYC_00006	Amount Added:	32.00	Units: uL	
MSV_V_ETOH_00012	Amount Added:	20.00	Units: uL	
MSV_CCV_2CEVE_00002	Amount Added:	4.00	Units: uL	
MSV_CCV_Penta_00001	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#3_00002	Amount Added:	3.20	Units: uL	
MSV_V_VOA2_00088	Amount Added:	12.00	Units: uL	
MSV_CCV_VOC#1_00002	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00003	Amount Added:	2.00	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:17:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D

Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137 Operator ID: kas02648

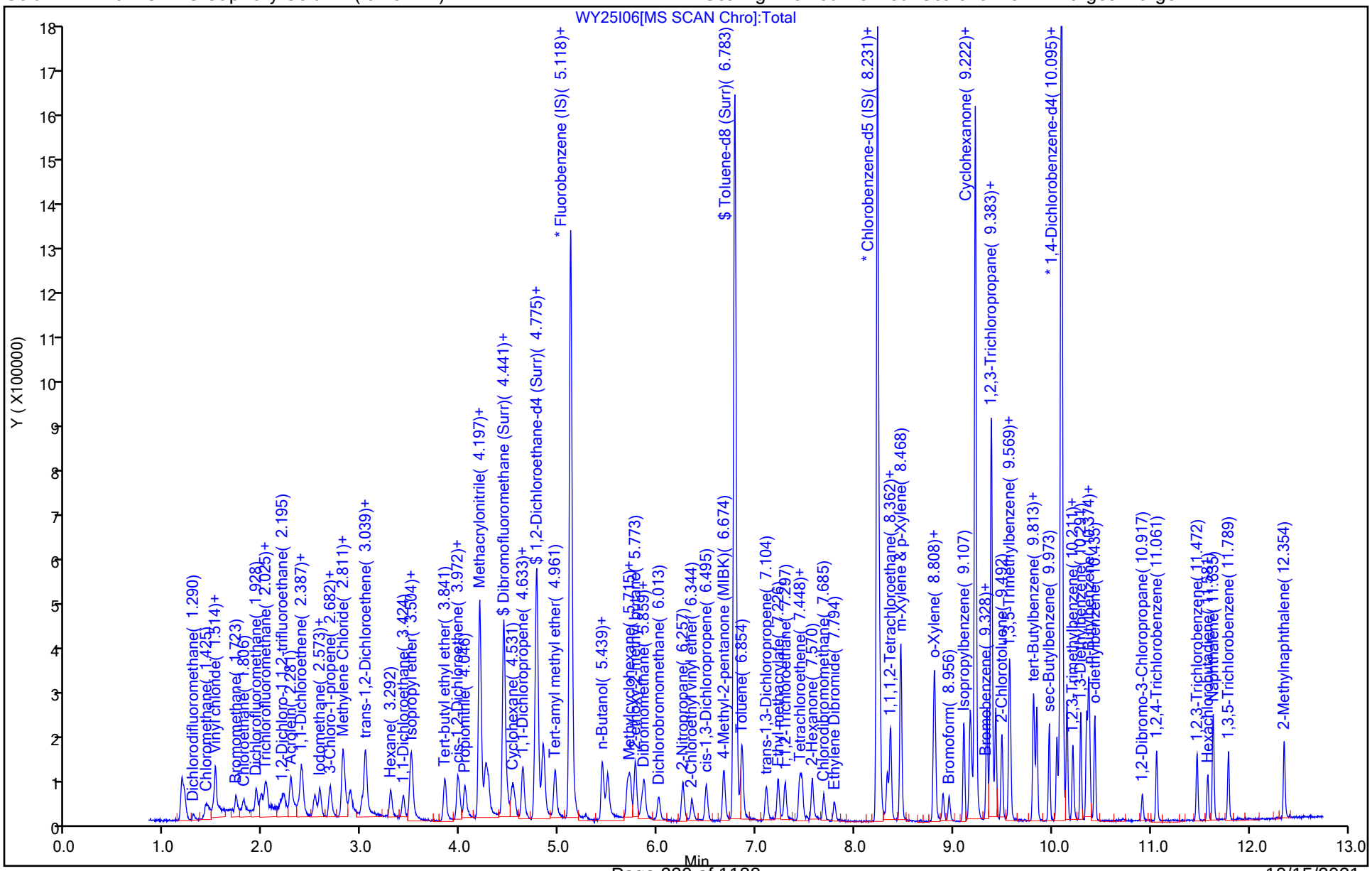
Lims ID: IC std2 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: MSVoa_9137 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

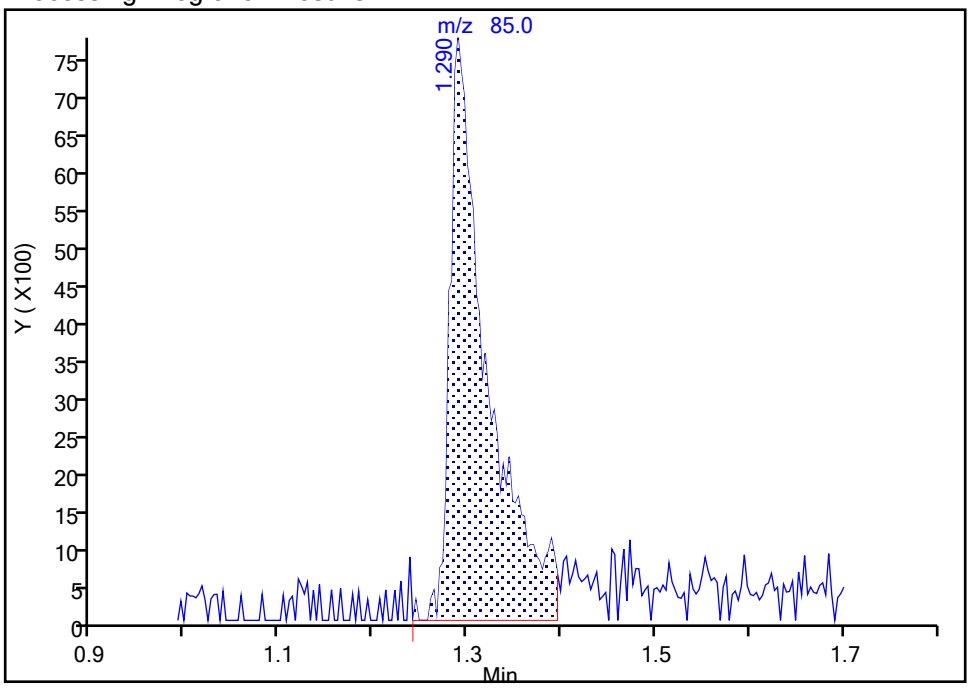
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

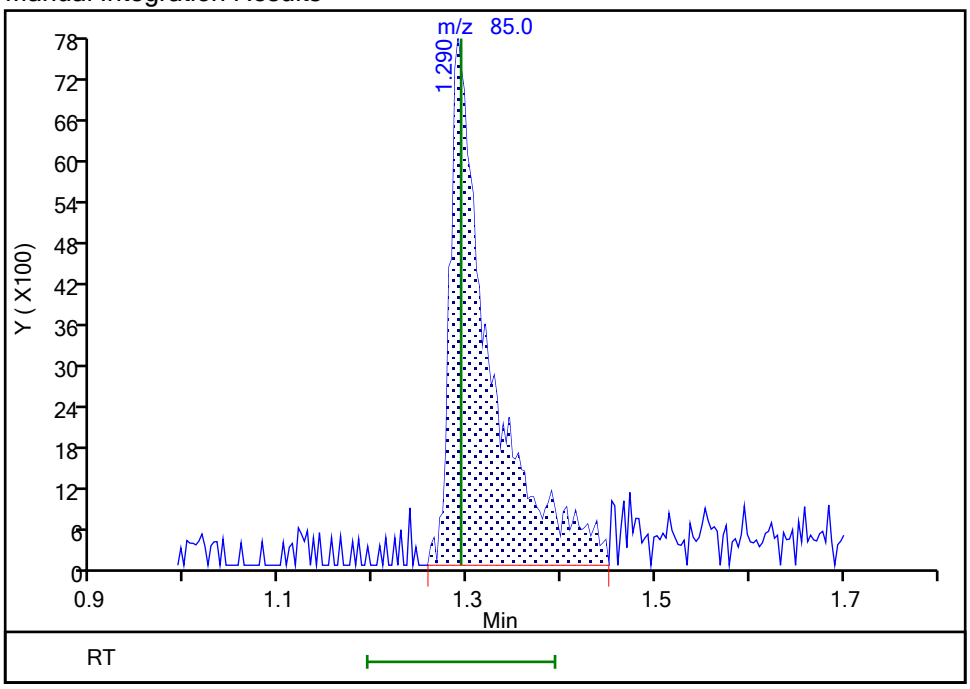
Processing Integration Results

RT: 1.29
Area: 21190
Amount: 3.888674
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 22813
Amount: 4.142453
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:27:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

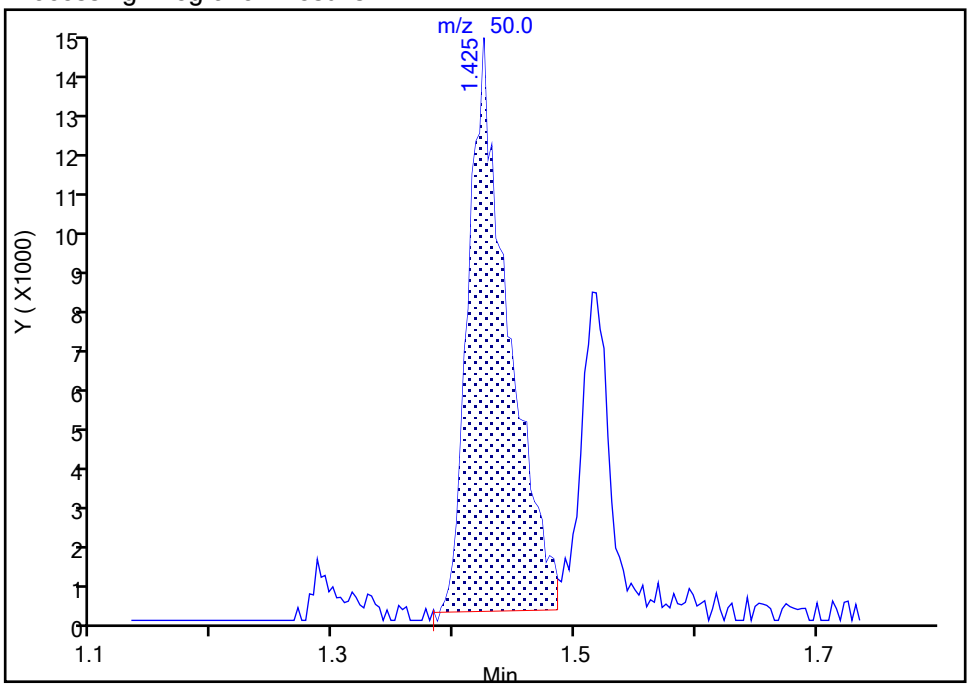
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

3 Chloromethane, CAS: 74-87-3

Signal: 1

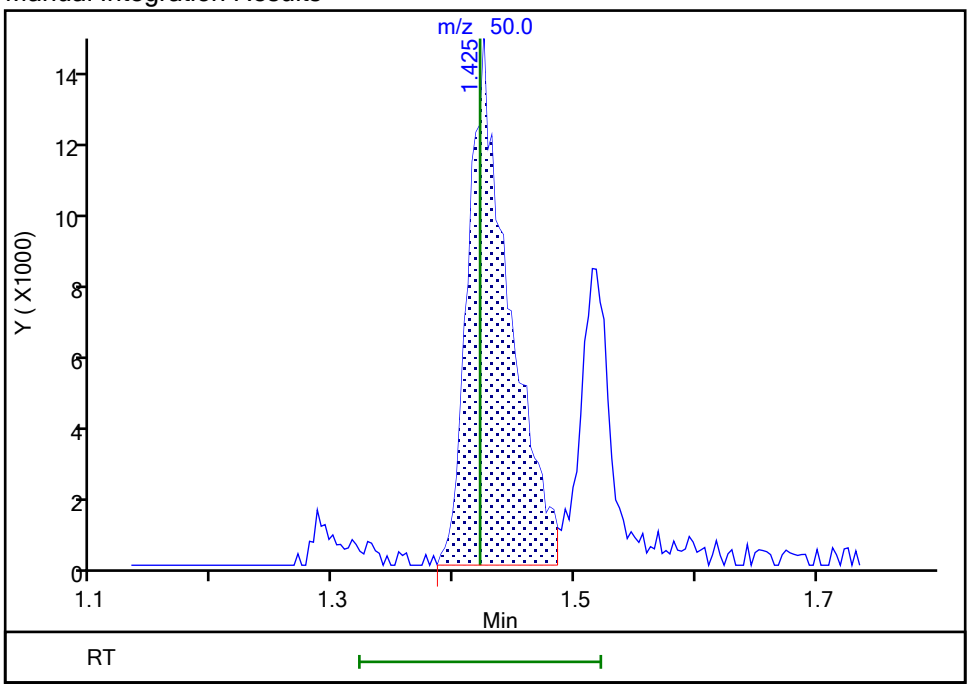
Processing Integration Results

RT: 1.42
Area: 31708
Amount: 4.245546
Amount Units: ug/l



Manual Integration Results

RT: 1.42
Area: 33054
Amount: 3.968994
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:27:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

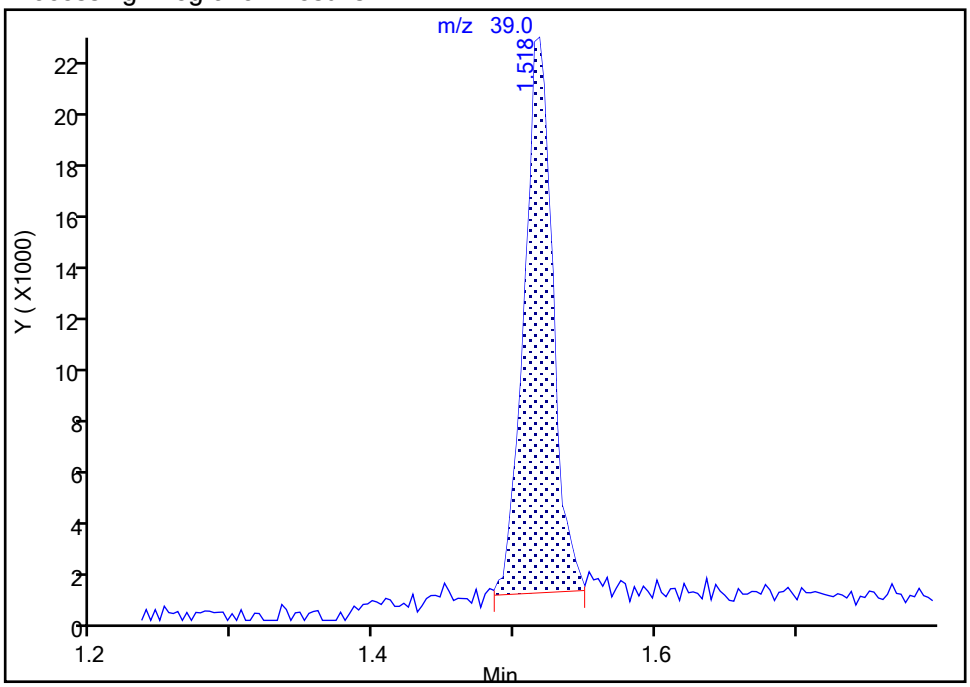
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

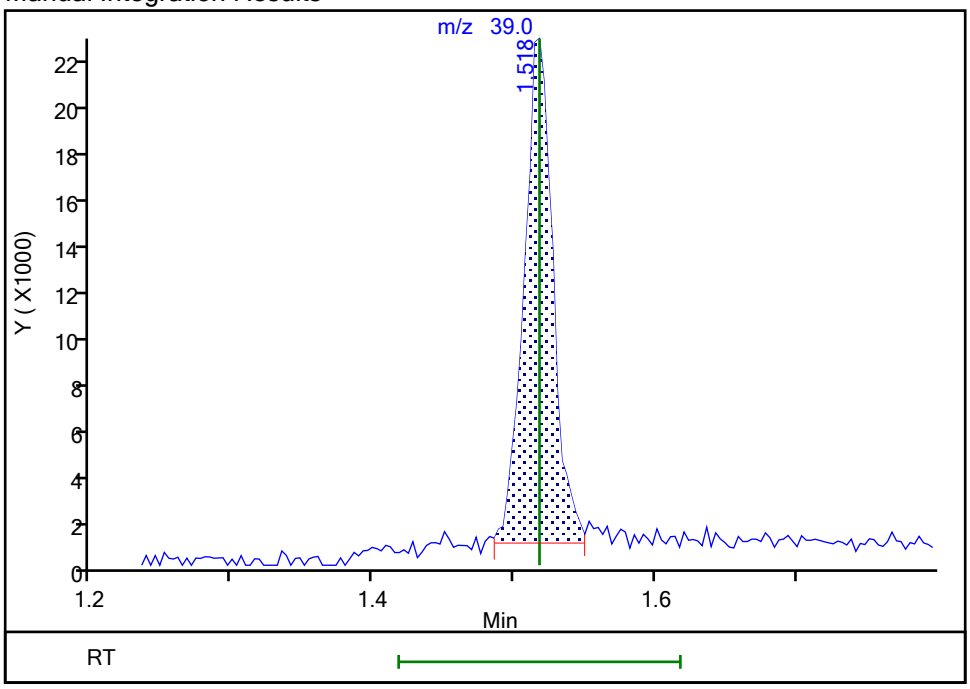
Processing Integration Results

RT: 1.52
Area: 30779
Amount: 4.017700
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 31252
Amount: 4.054091
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:28:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

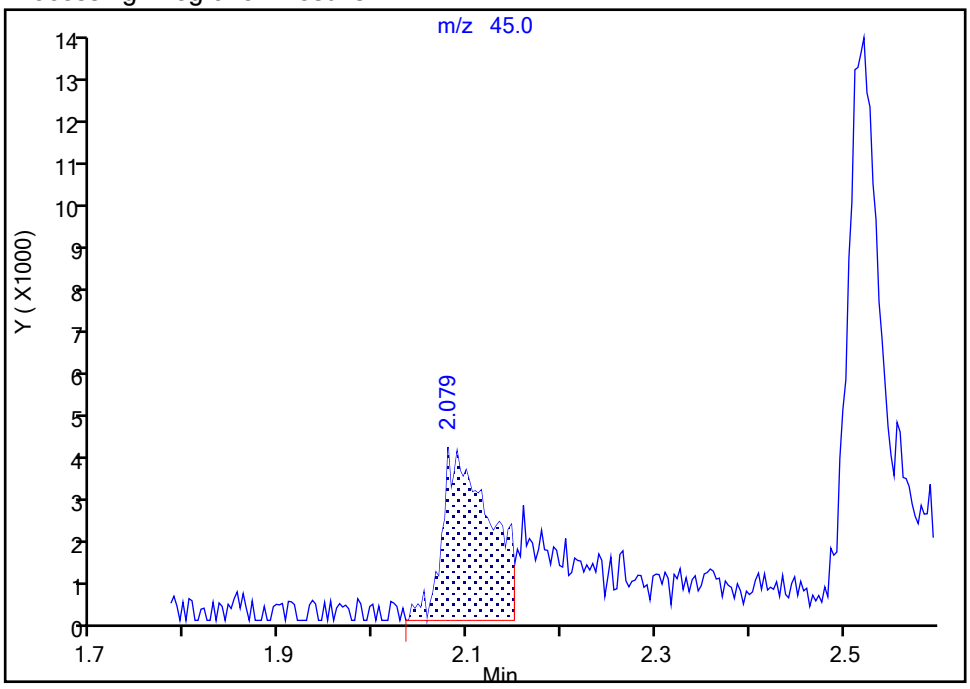
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

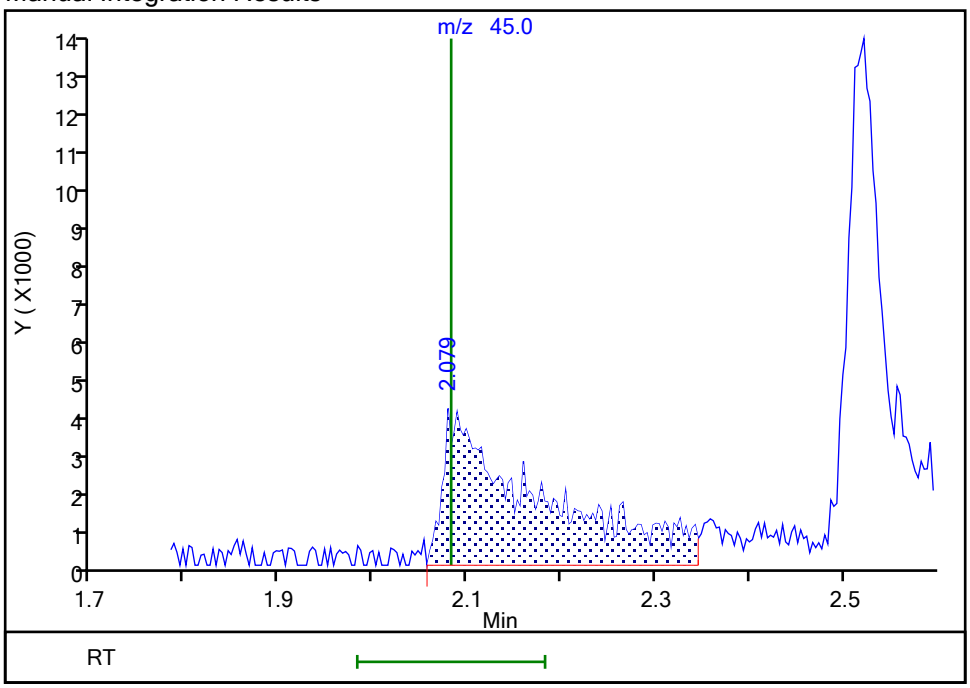
Processing Integration Results

RT: 2.08
Area: 13481
Amount: 184.5240
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 26917
Amount: 244.4833
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:36:08
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

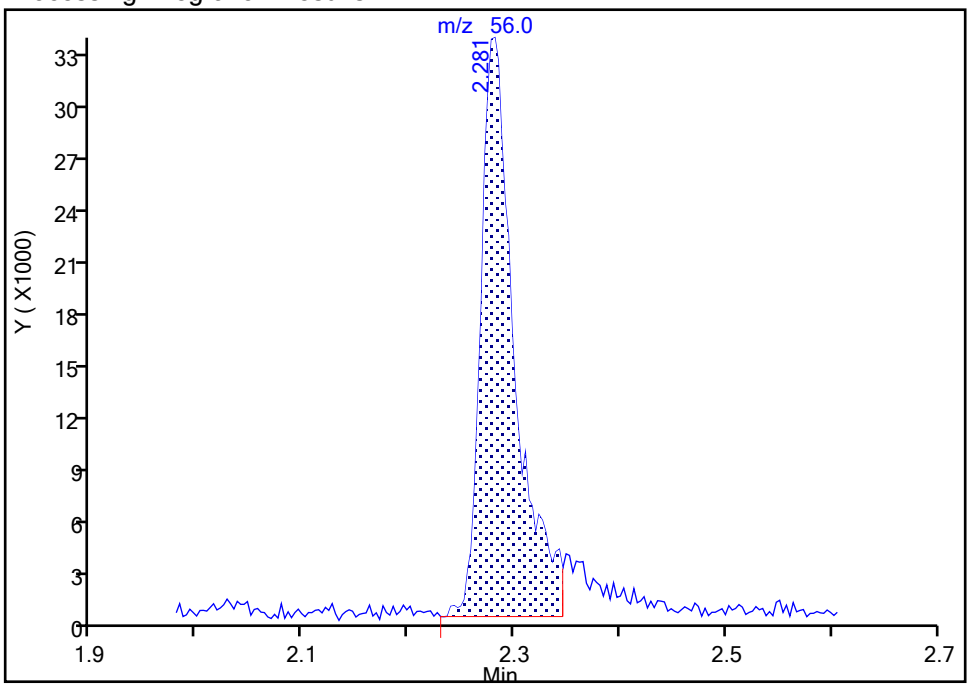
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

16 Acrolein, CAS: 107-02-8

Signal: 1

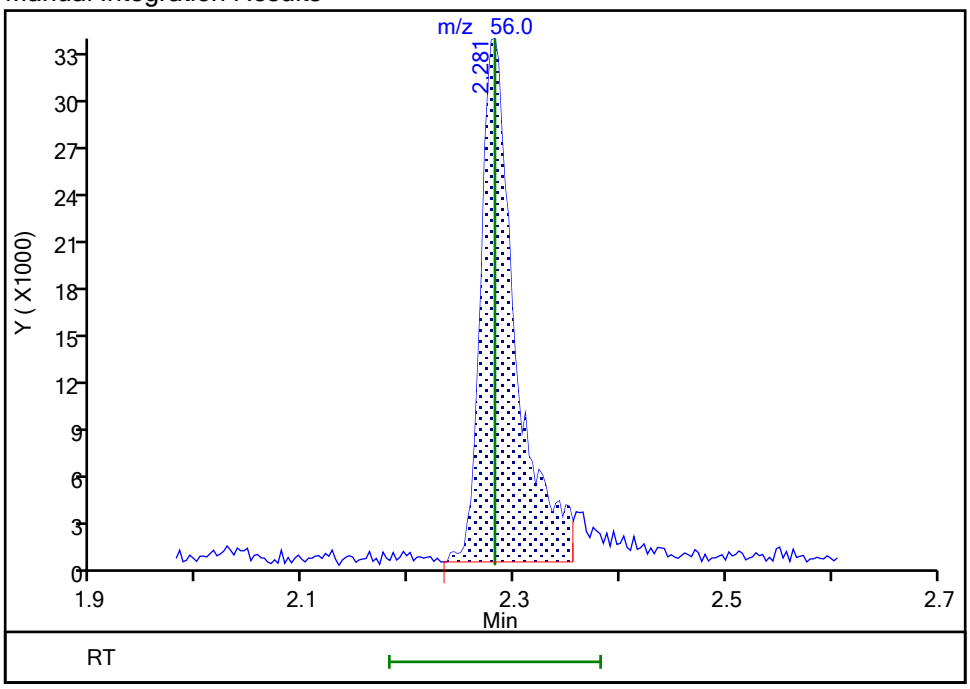
Processing Integration Results

RT: 2.28
Area: 72315
Amount: 42.374750
Amount Units: ug/l



Manual Integration Results

RT: 2.28
Area: 74203
Amount: 35.645678
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:32:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

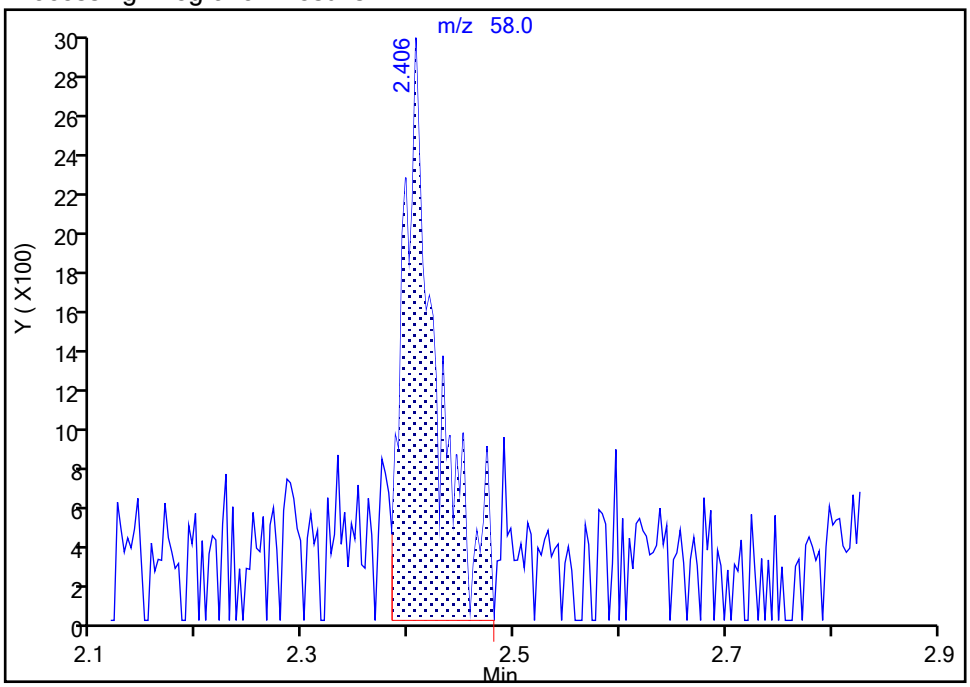
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

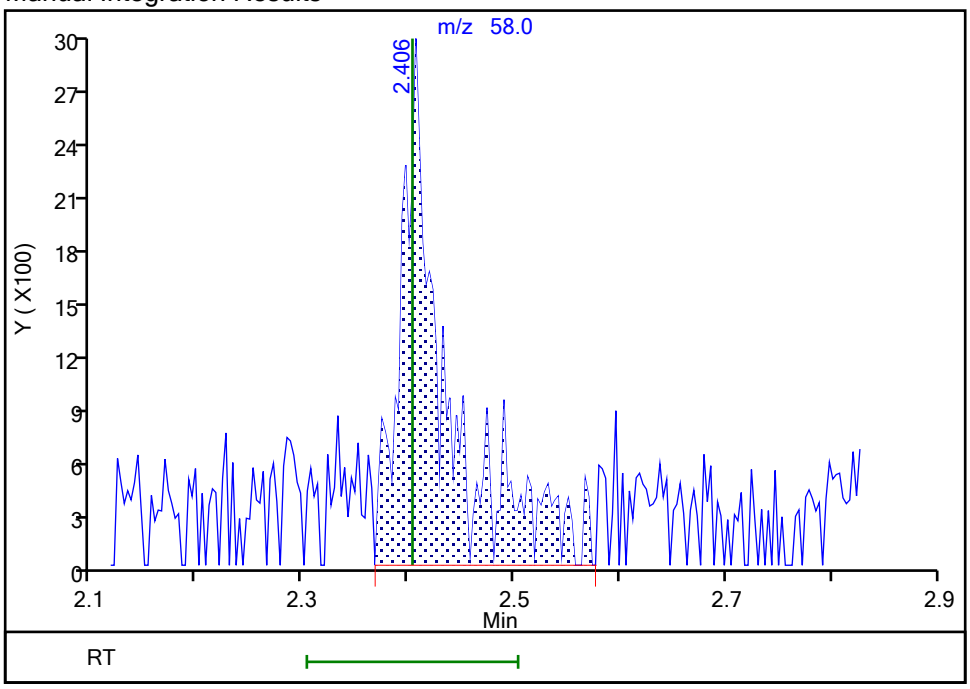
Processing Integration Results

RT: 2.41
Area: 6387
Amount: 5.823544
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 8654
Amount: 7.847869
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:37:34
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

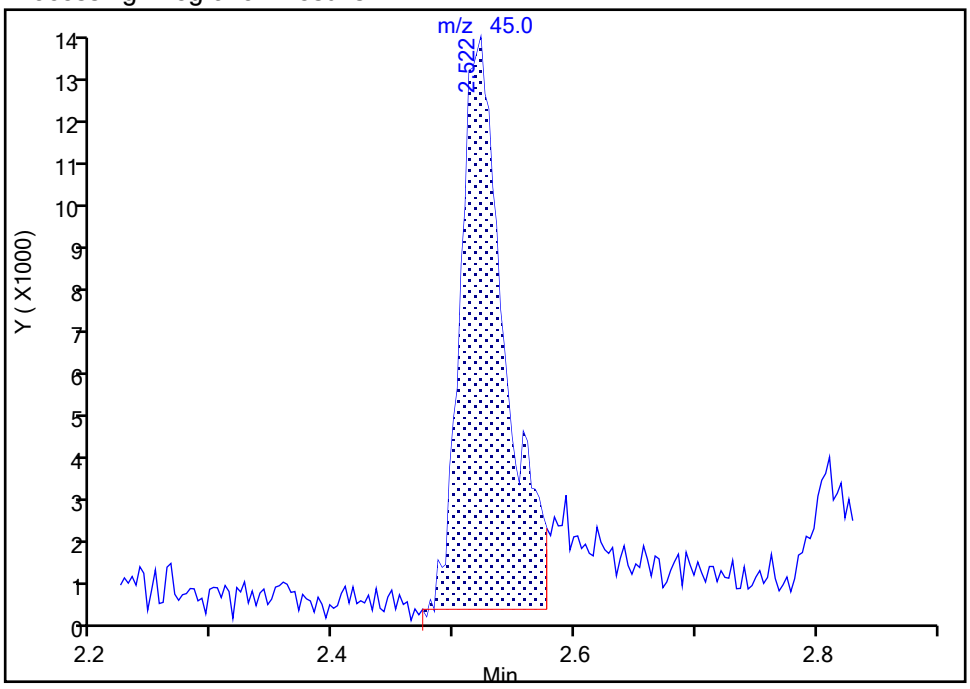
Data File:	\\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D				
Injection Date:	25-May-2021 17:39:30	Instrument ID:	9137		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

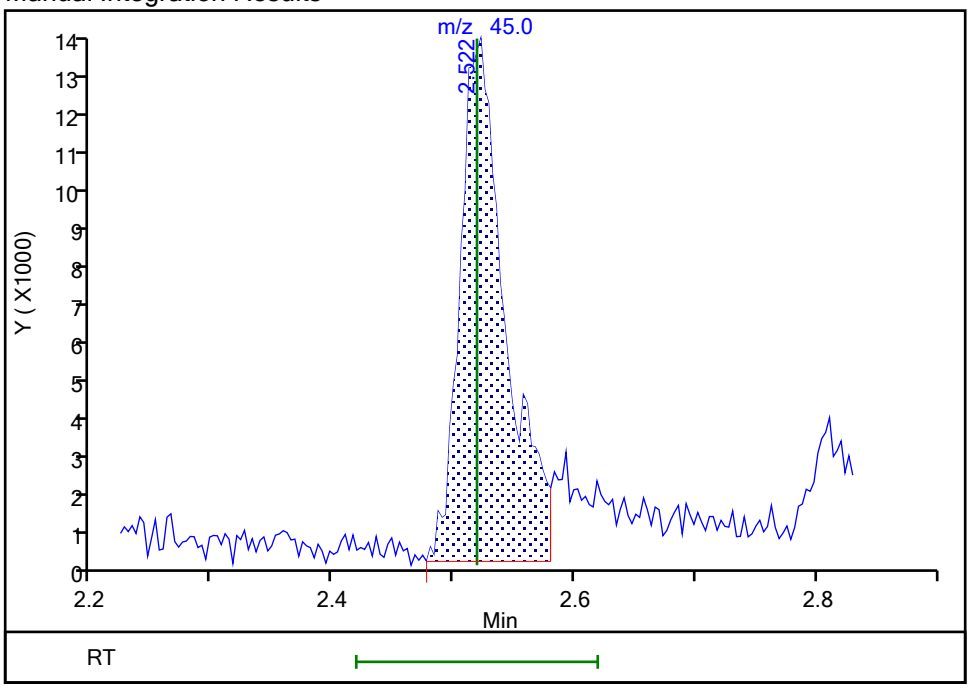
Processing Integration Results

RT: 2.52
Area: 31903
Amount: 74.170543
Amount Units: ug/l



Manual Integration Results

RT: 2.52
Area: 33167
Amount: 68.414565
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:34:13
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

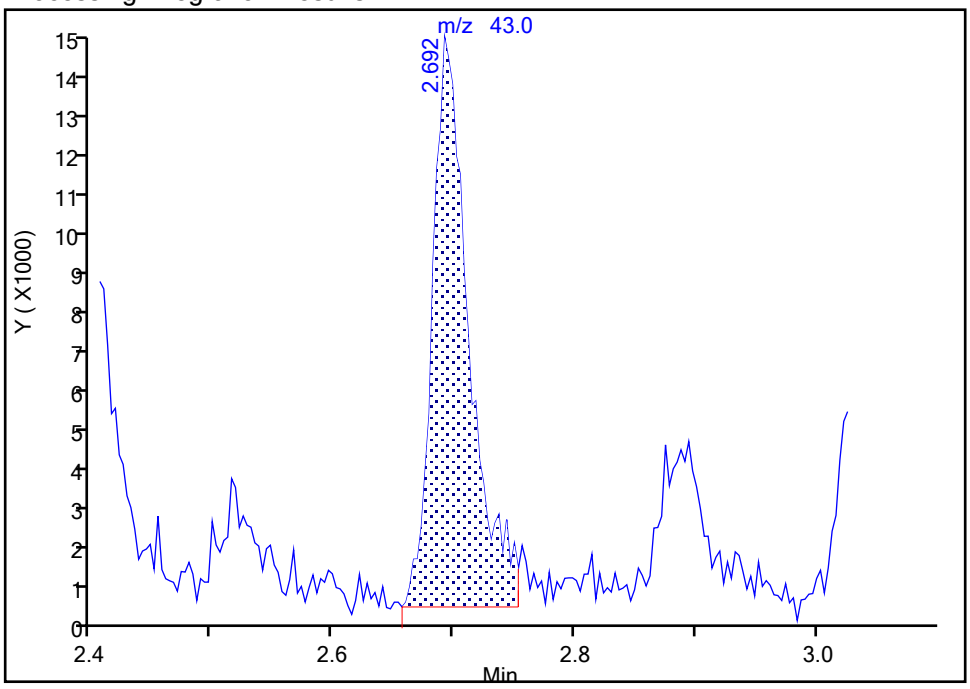
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

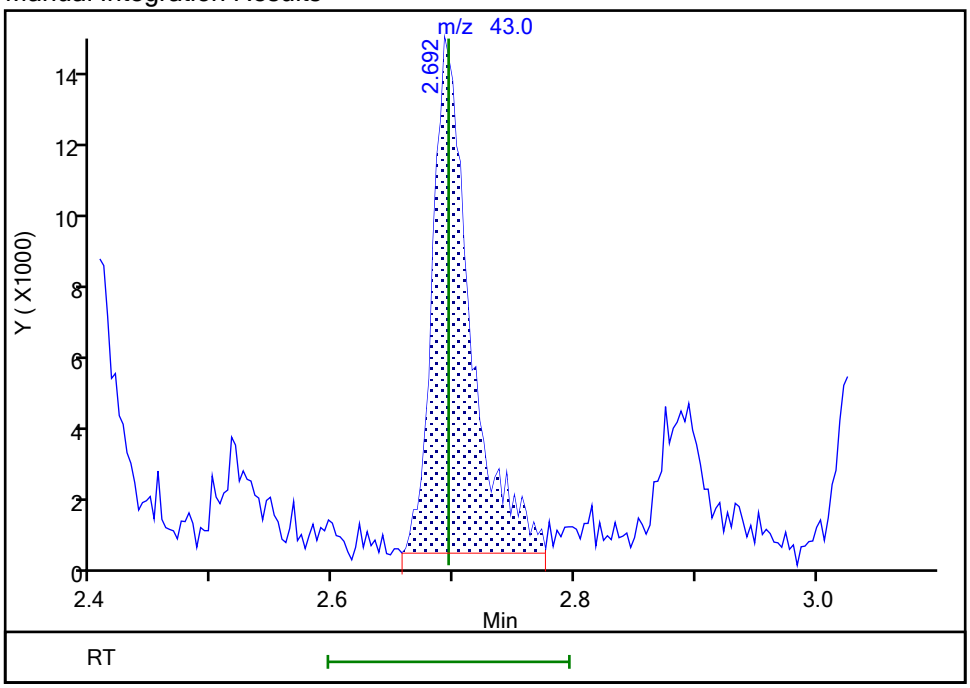
Processing Integration Results

RT: 2.69
Area: 28821
Amount: 3.814366
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 29788
Amount: 3.883616
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:34:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

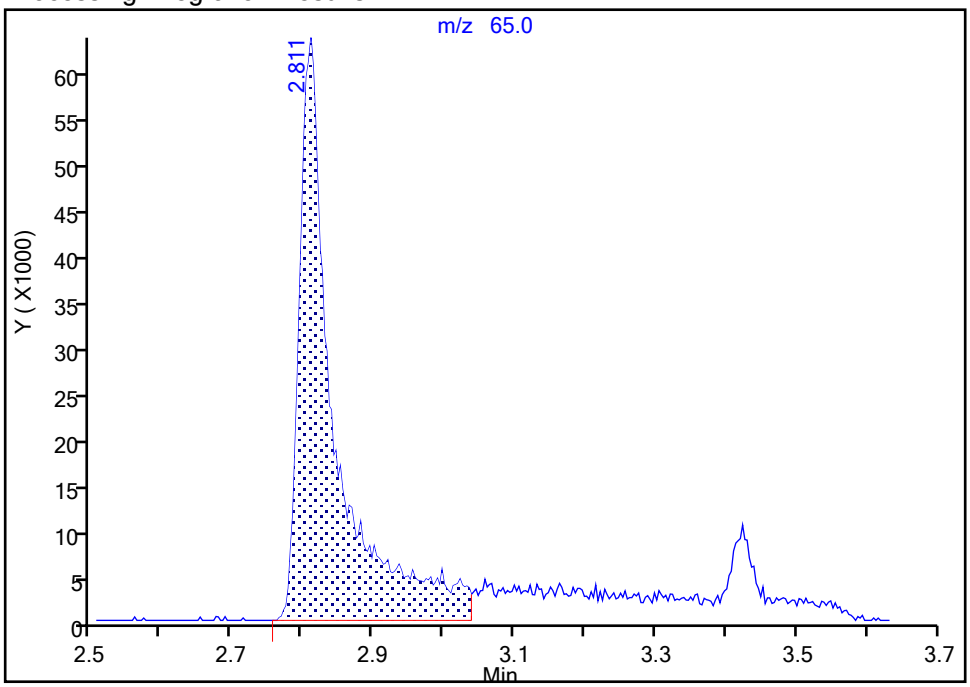
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

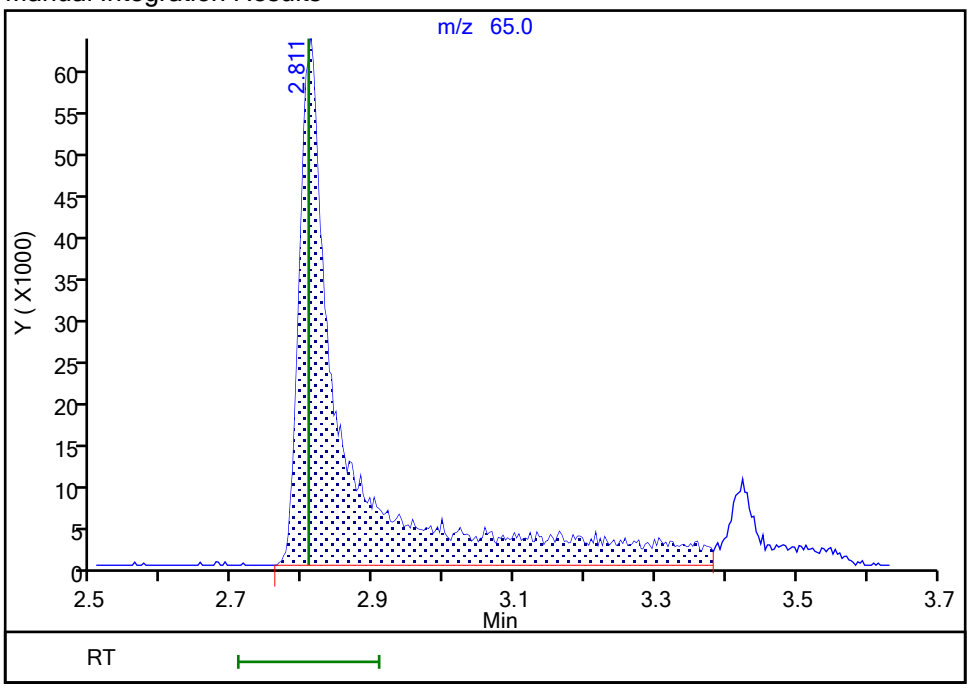
Processing Integration Results

RT: 2.81
Area: 221338
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 280082
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:37:50
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

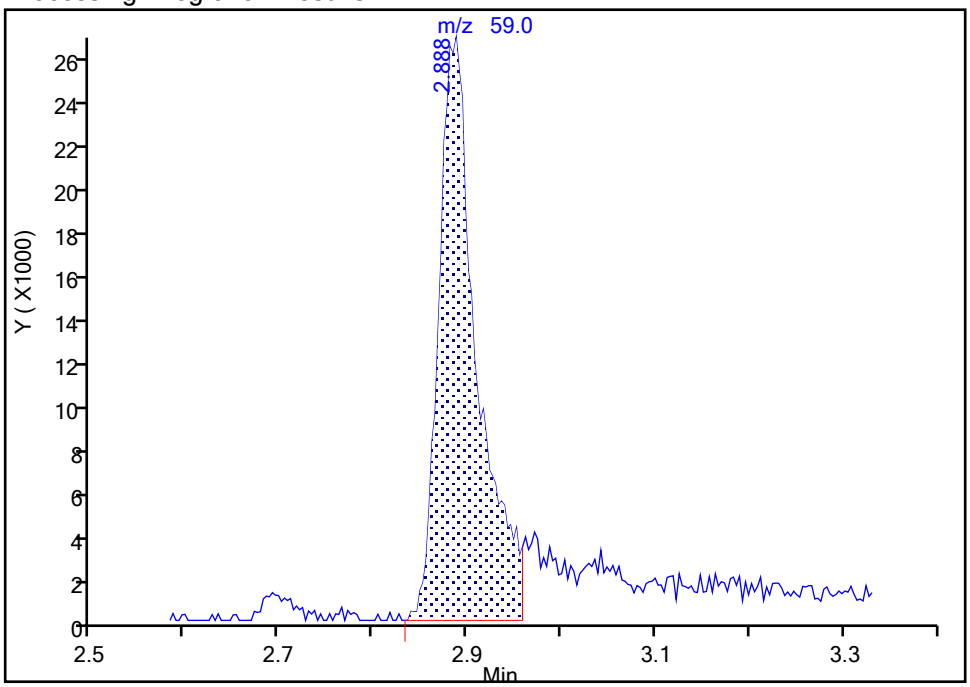
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

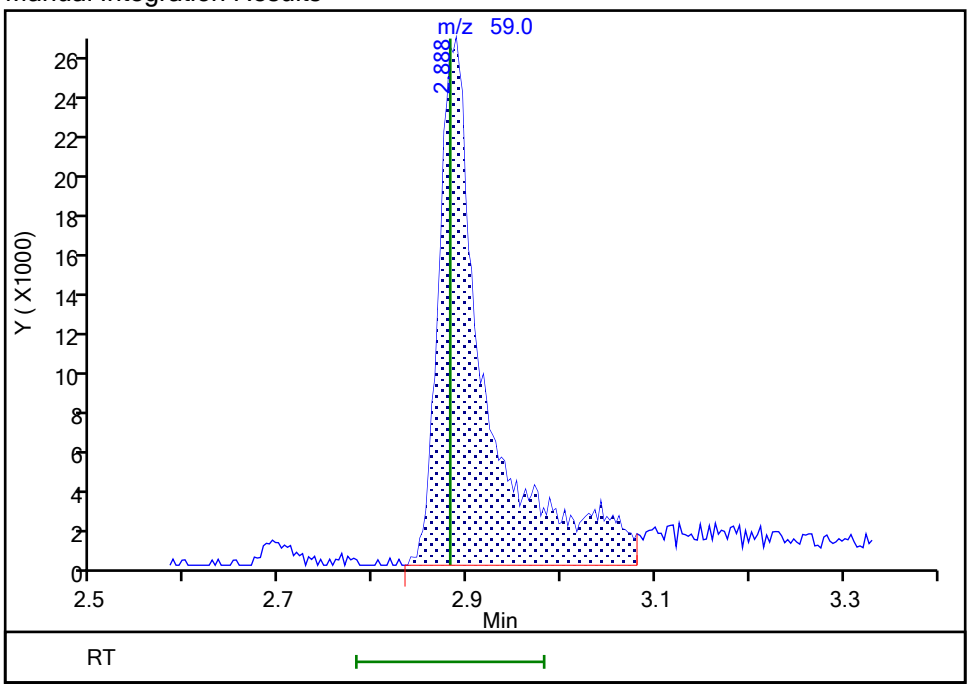
Processing Integration Results

RT: 2.89
Area: 75980
Amount: 65.454821
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 94254
Amount: 75.032158
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:40:40
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

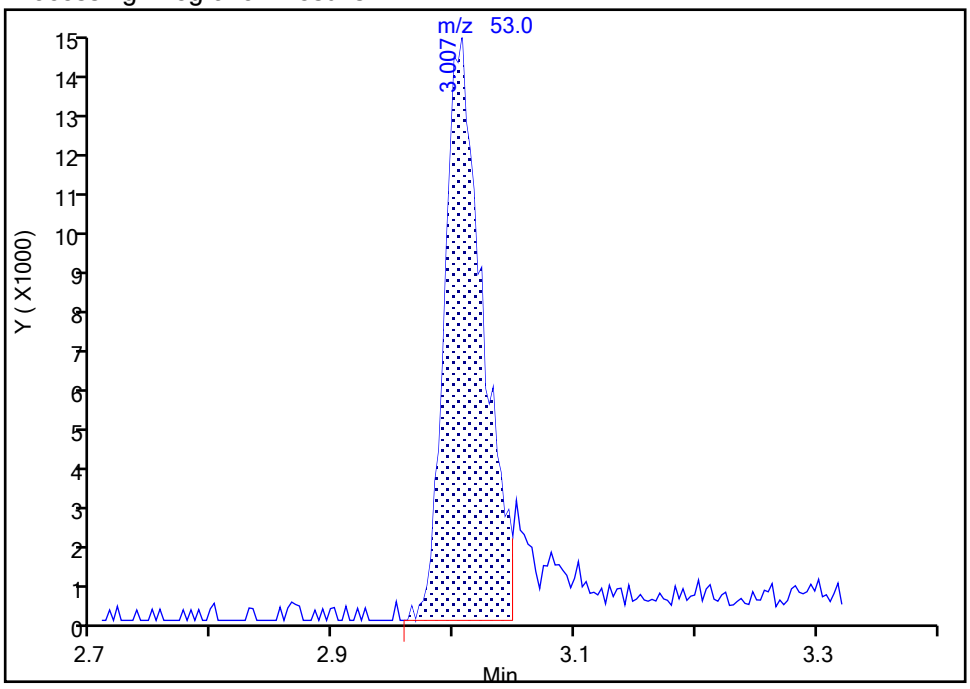
Data File:	\\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D				
Injection Date:	25-May-2021 17:39:30	Instrument ID:	9137		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

29 Acrylonitrile, CAS: 107-13-1

Signal: 1

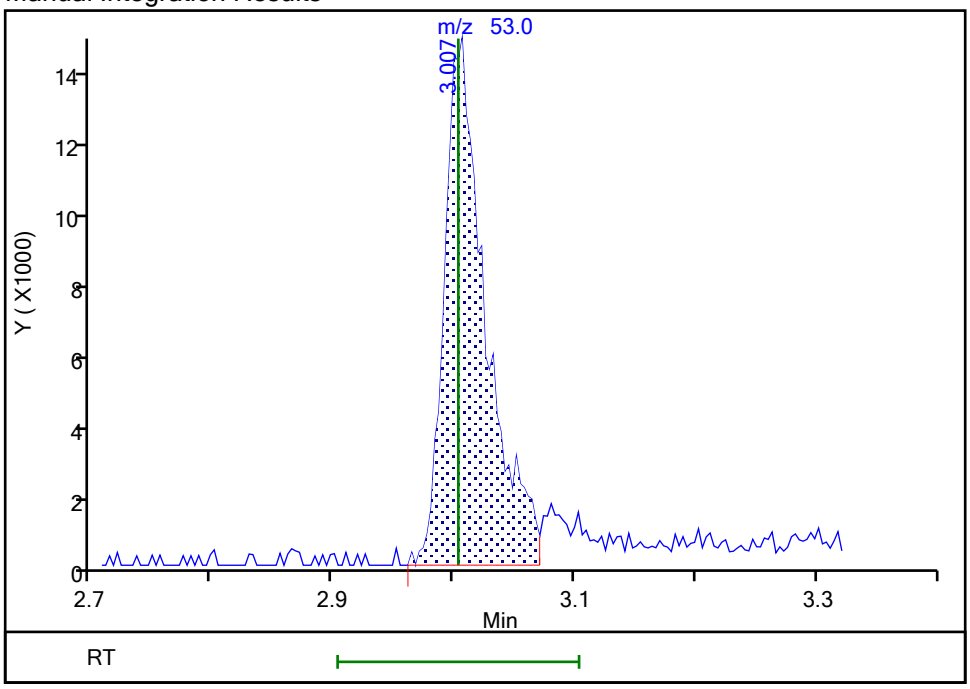
Processing Integration Results

RT: 3.01
Area: 31804
Amount: 8.853330
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 34297
Amount: 9.303677
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:42:52
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

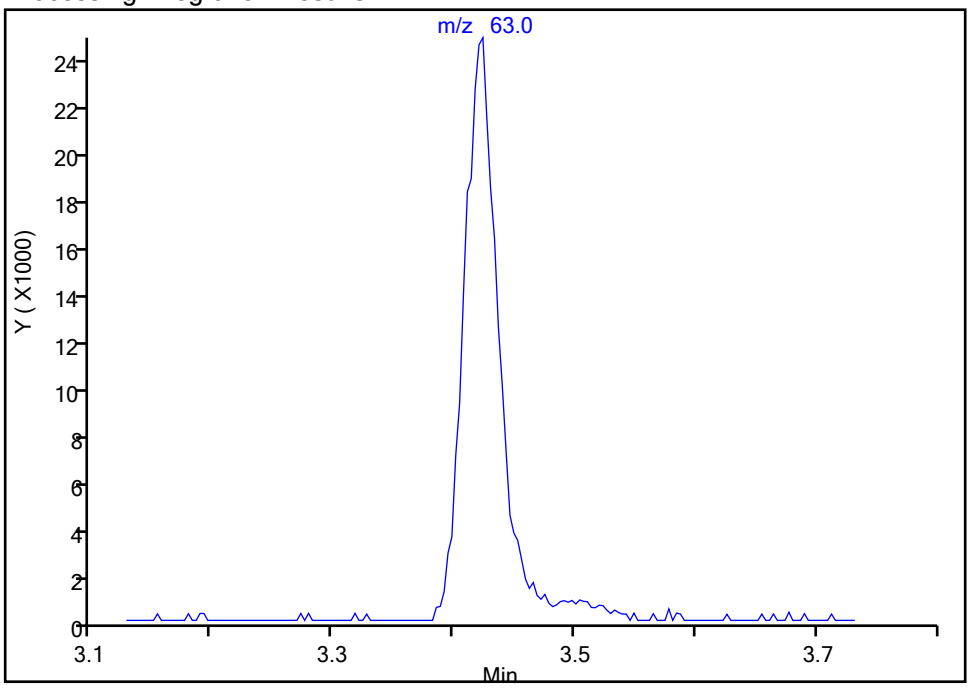
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

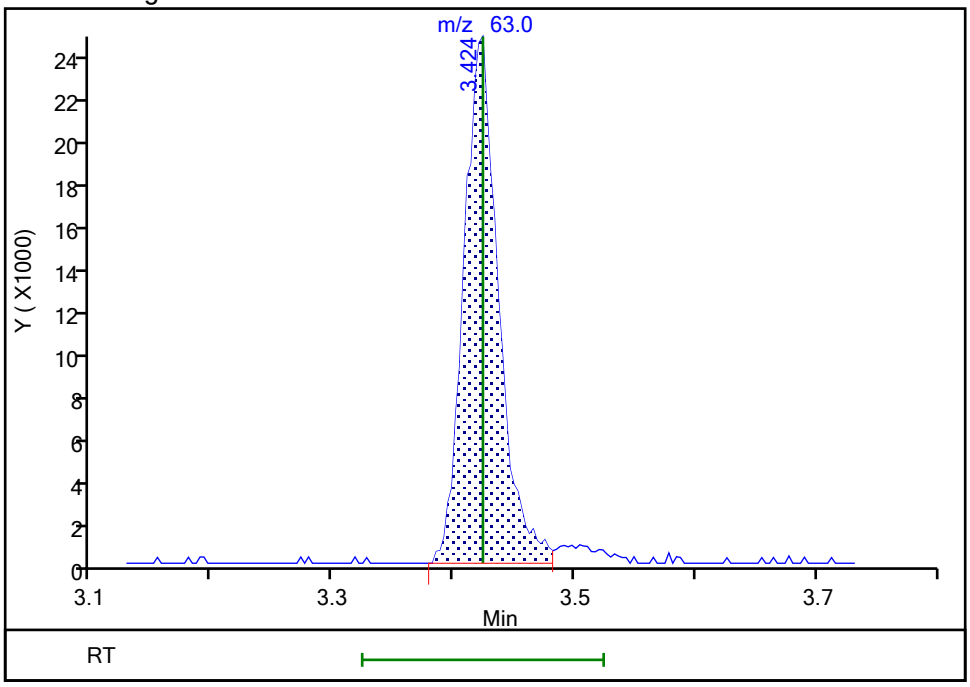
Not Detected
Expected RT: 3.42

Processing Integration Results



Manual Integration Results

RT: 3.42
Area: 48474
Amount: 4.019440
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:43:12
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

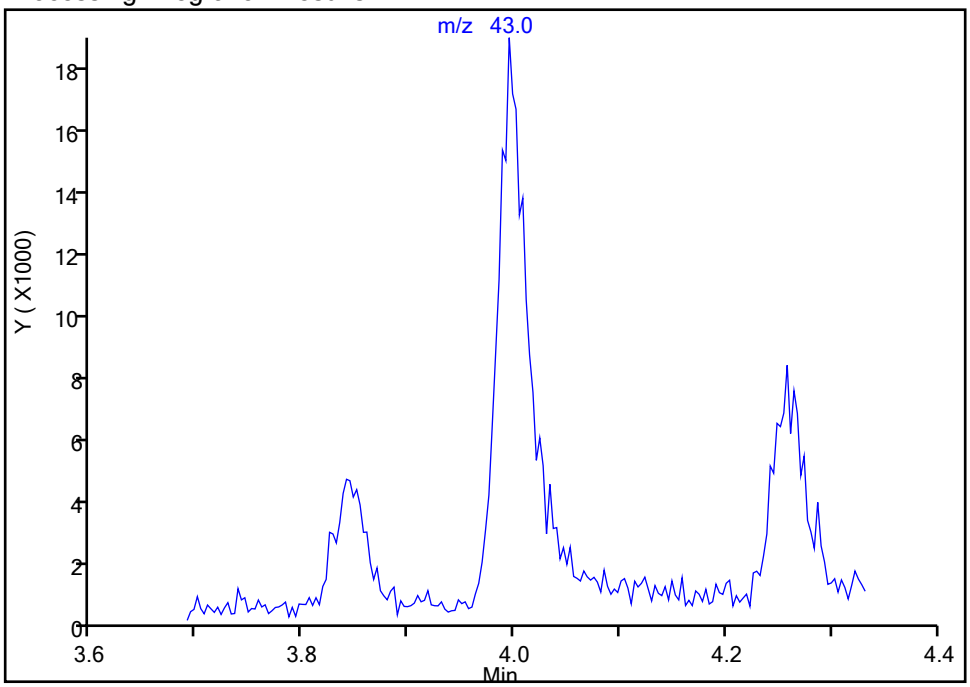
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

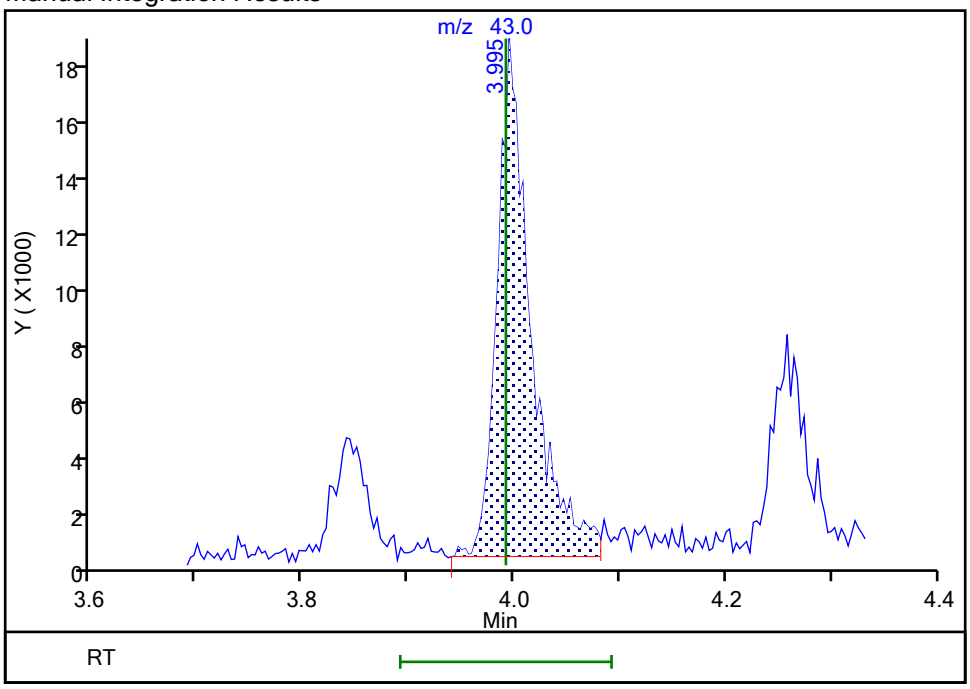
Not Detected
Expected RT: 3.99

Processing Integration Results



Manual Integration Results

RT: 3.99
Area: 38248
Amount: 6.998513
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:43:28
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

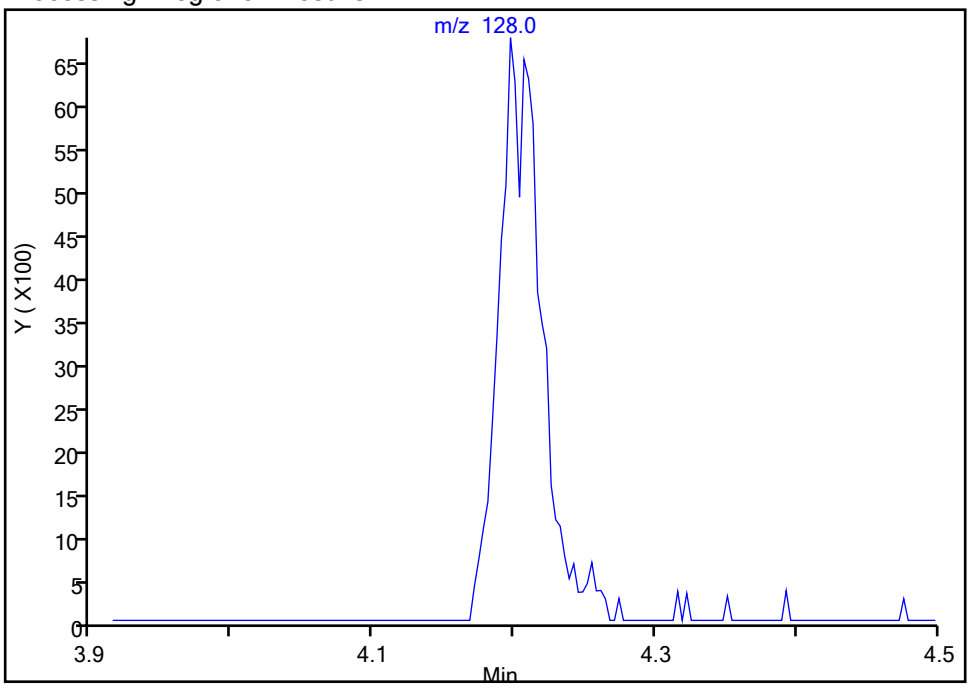
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

44 Chlorobromomethane, CAS: 74-97-5

Signal: 1

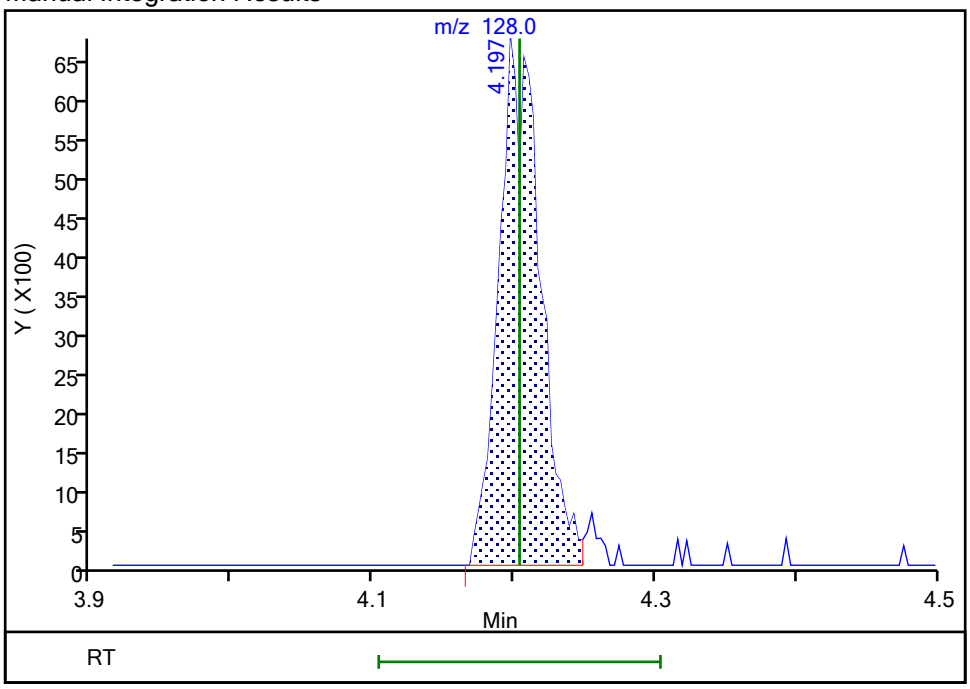
Not Detected
Expected RT: 4.20

Processing Integration Results



Manual Integration Results

RT: 4.20
Area: 13887
Amount: 3.982924
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:45:04
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

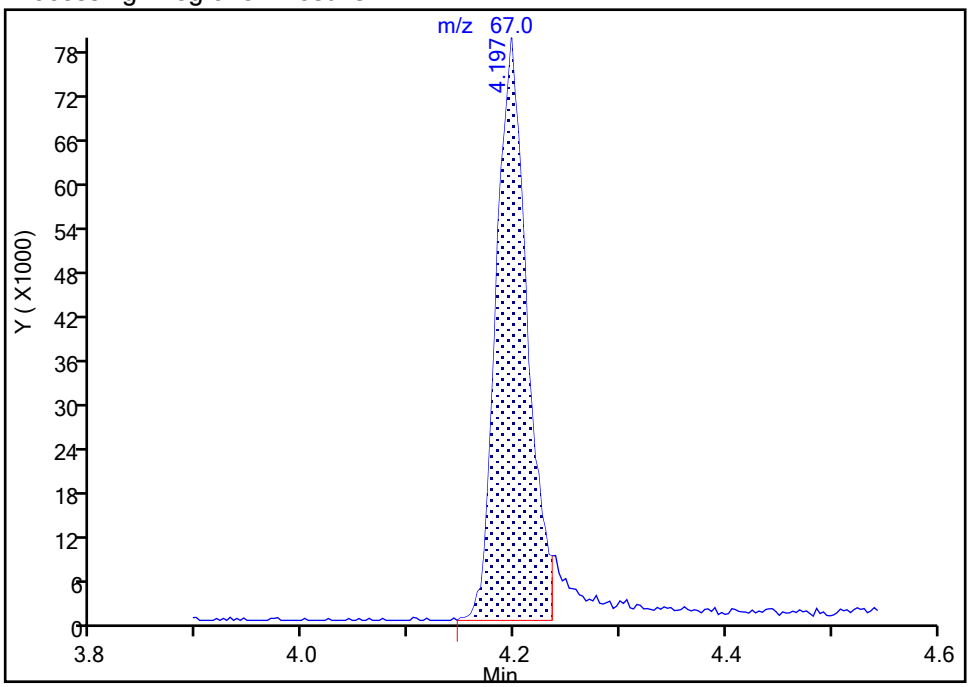
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

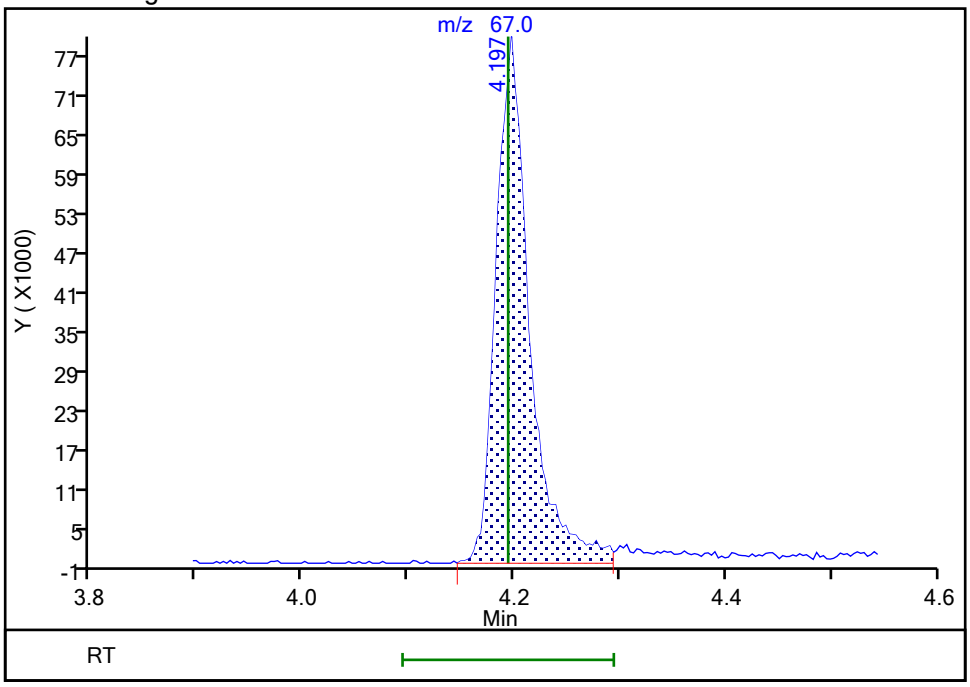
Processing Integration Results

RT: 4.20
Area: 162047
Amount: 37.244307
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 175409
Amount: 38.967575
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:44:52
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

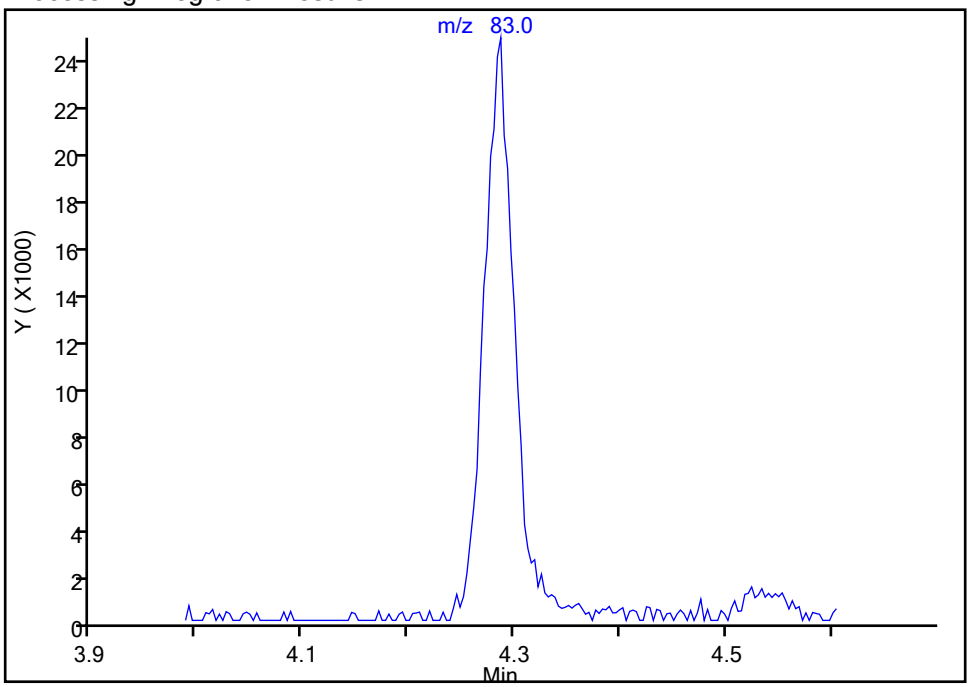
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

46 Chloroform, CAS: 67-66-3

Signal: 1

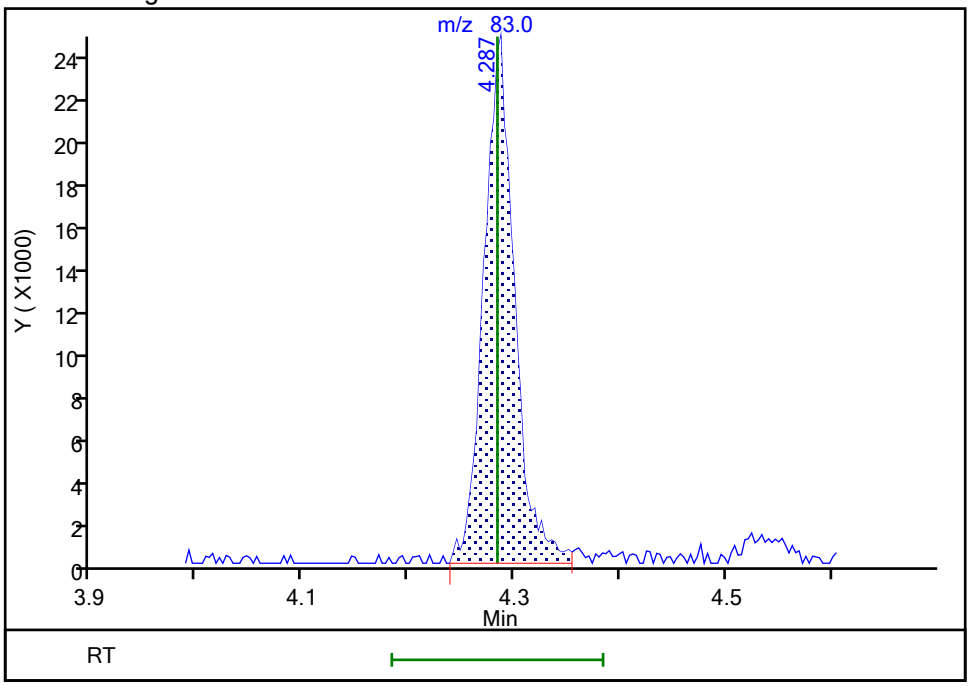
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 48527
Amount: 4.132173
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:45:43
Audit Action: Assigned Compound ID Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

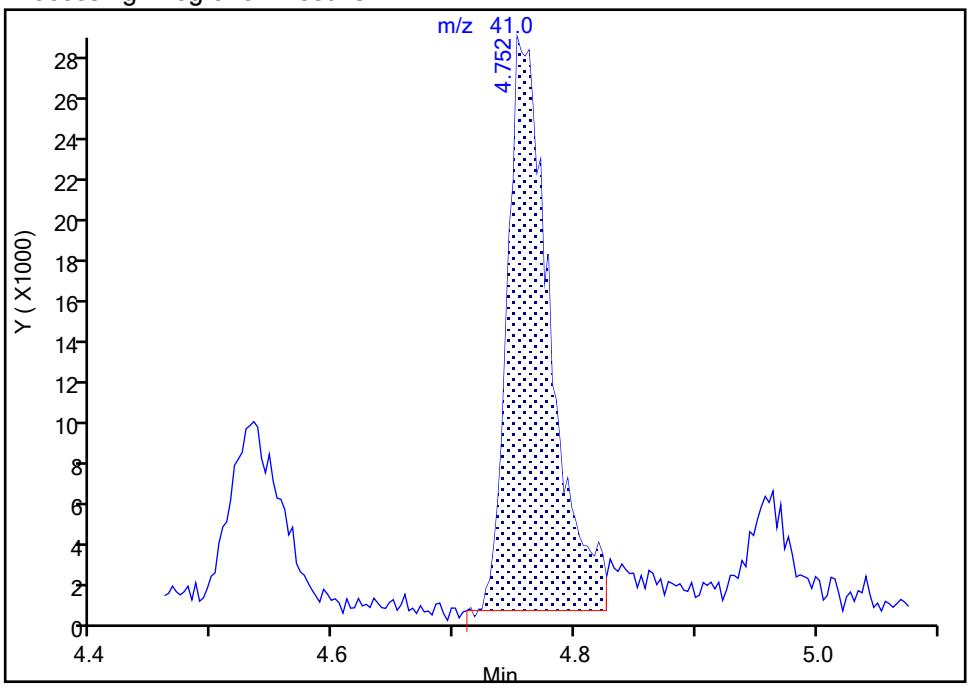
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

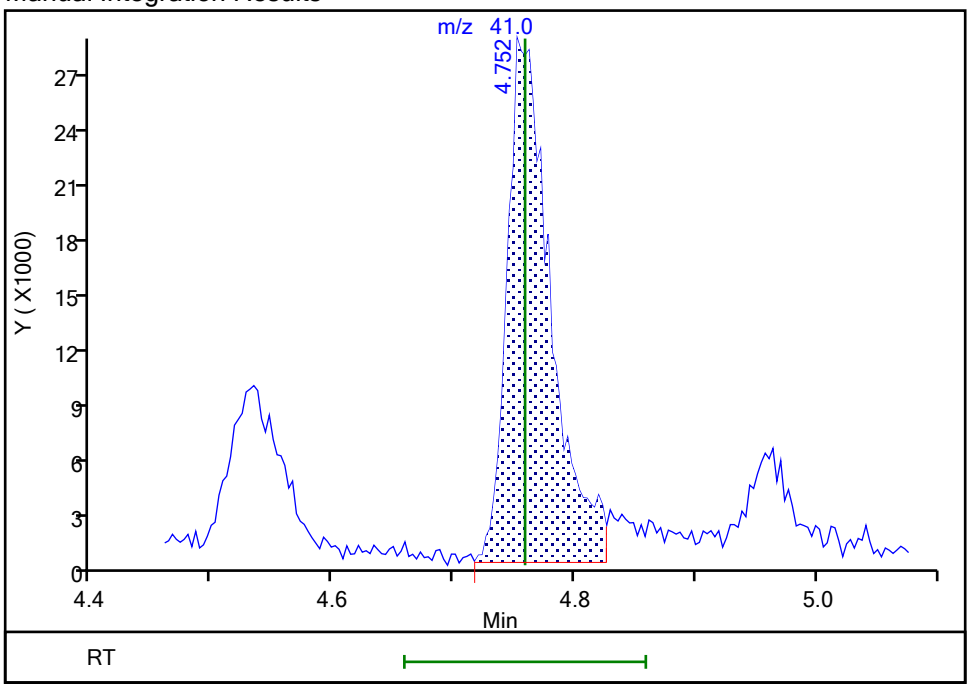
Processing Integration Results

RT: 4.75
Area: 67675
Amount: 163.2753
Amount Units: ug/l



Manual Integration Results

RT: 4.75
Area: 69815
Amount: 167.1176
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:46:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

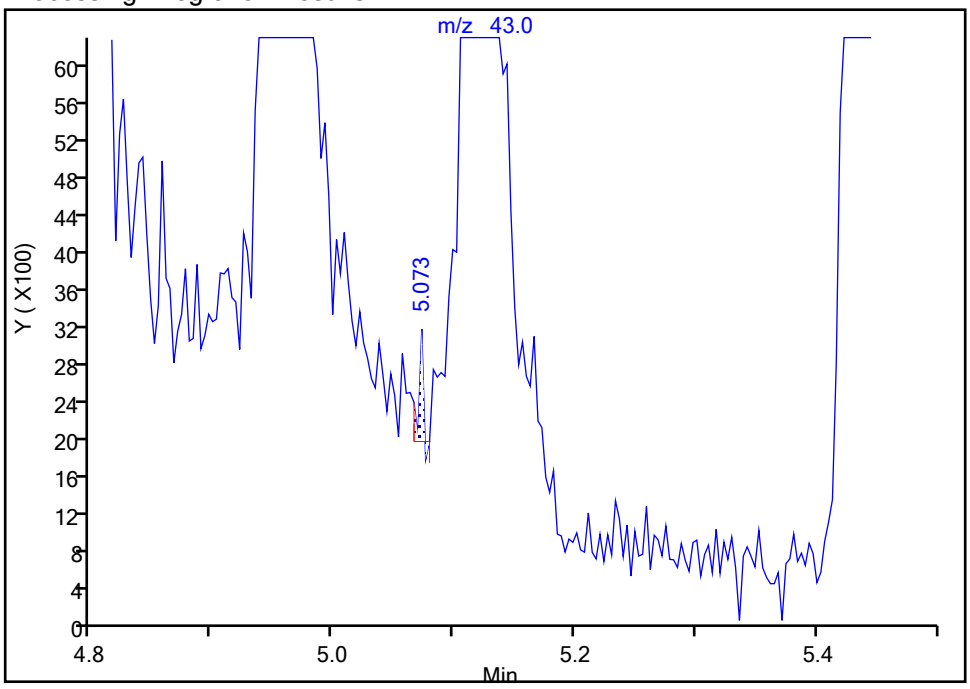
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

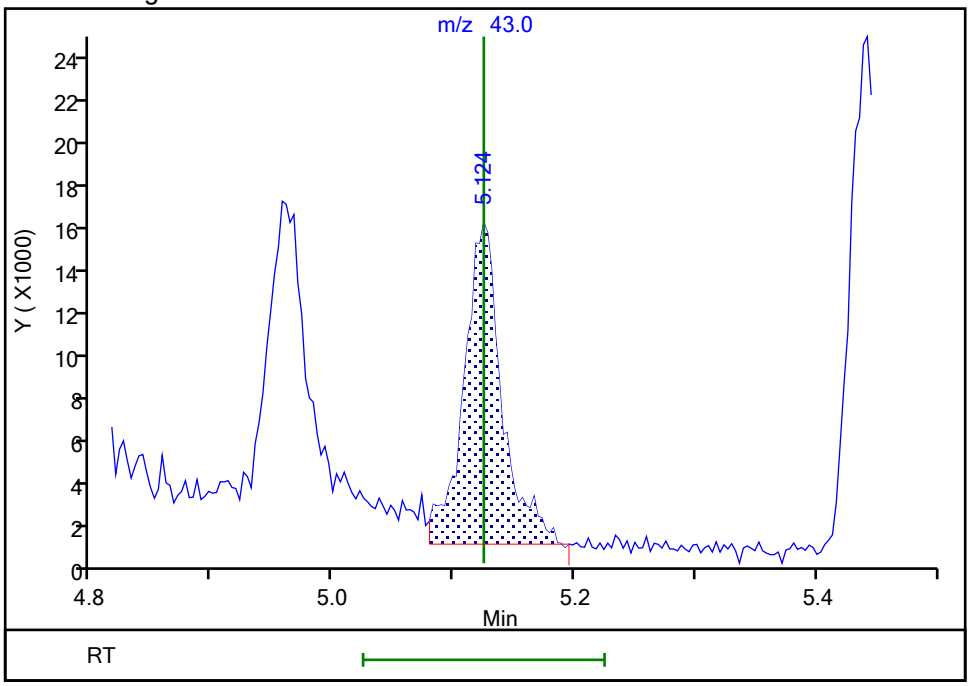
Processing Integration Results

RT: 5.07
Area: 290
Amount: 0.072686
Amount Units: ug/l



Manual Integration Results

RT: 5.12
Area: 32042
Amount: 4.630942
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:46:53
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

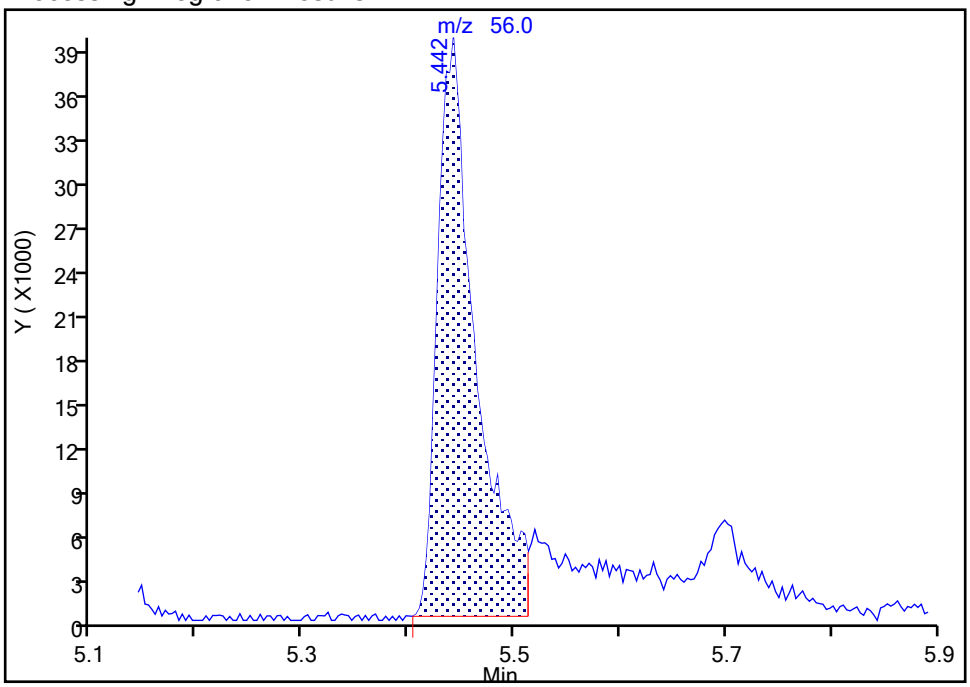
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

61 n-Butanol, CAS: 71-36-3

Signal: 1

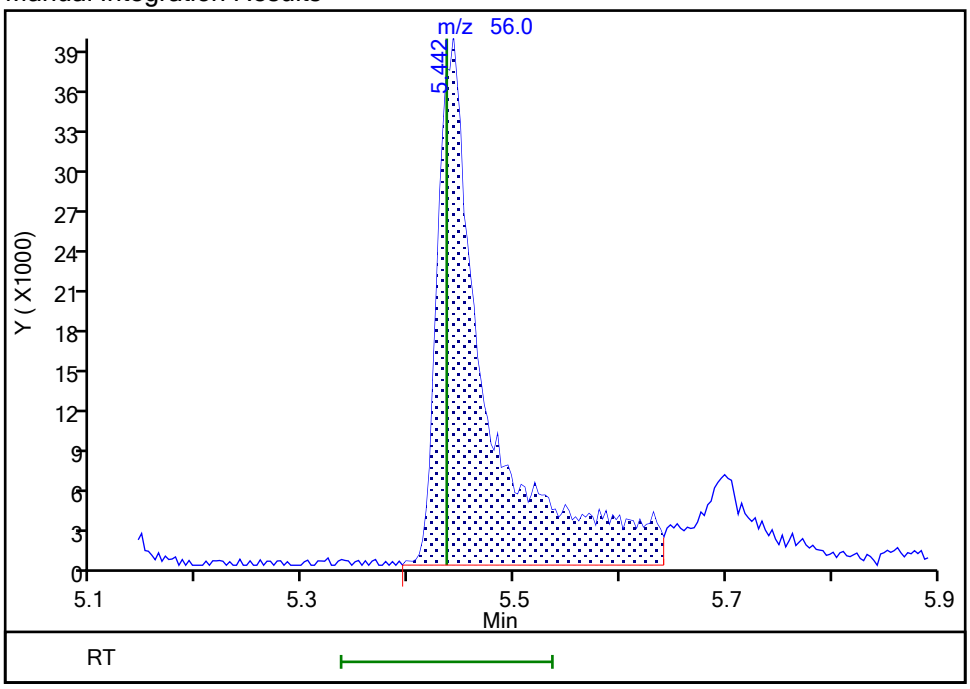
Processing Integration Results

RT: 5.44
Area: 97672
Amount: 282.3789
Amount Units: ug/l



Manual Integration Results

RT: 5.44
Area: 127958
Amount: 357.1737
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:24:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

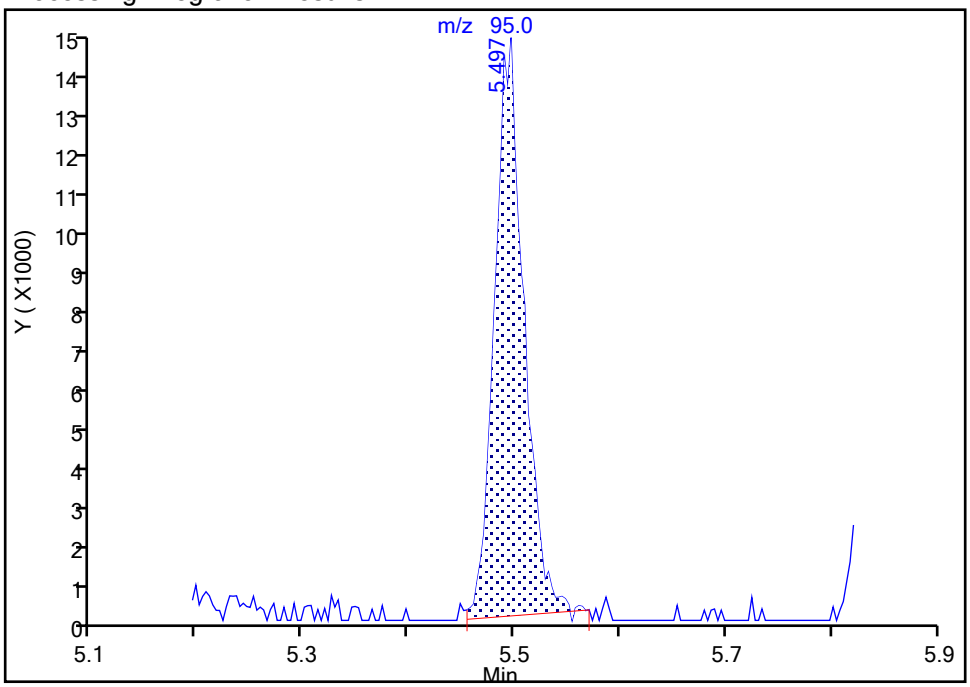
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Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

62 Trichloroethene, CAS: 79-01-6

Signal: 1

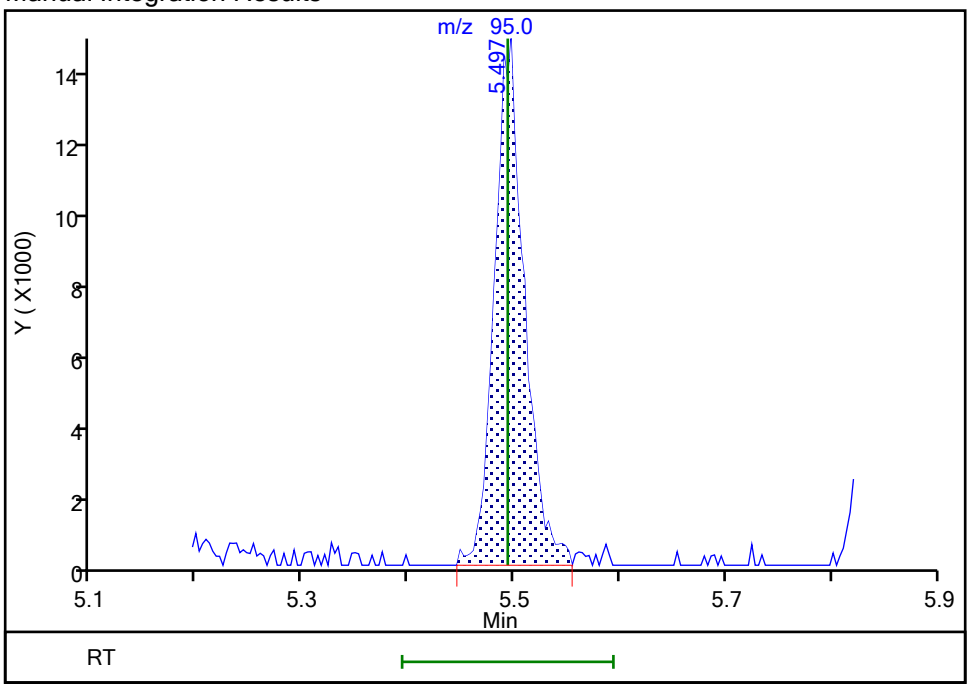
Processing Integration Results

RT: 5.50
Area: 28414
Amount: 3.996324
Amount Units: ug/l



Manual Integration Results

RT: 5.50
Area: 29296
Amount: 4.102200
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:47:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

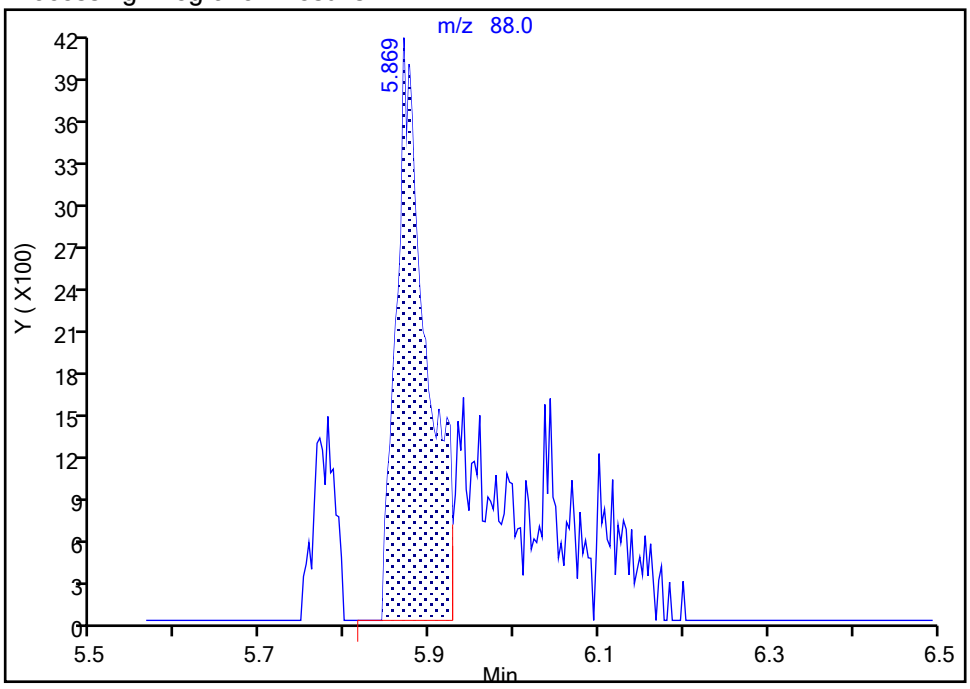
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

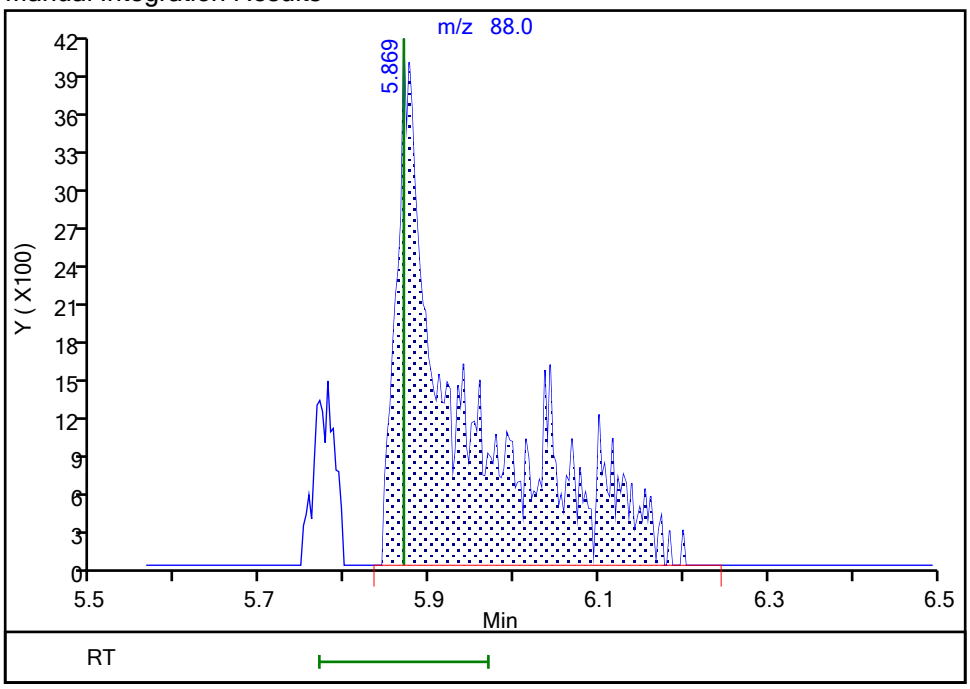
Processing Integration Results

RT: 5.87
Area: 10033
Amount: 88.244703
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 20611
Amount: 194.5963
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:48:03
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

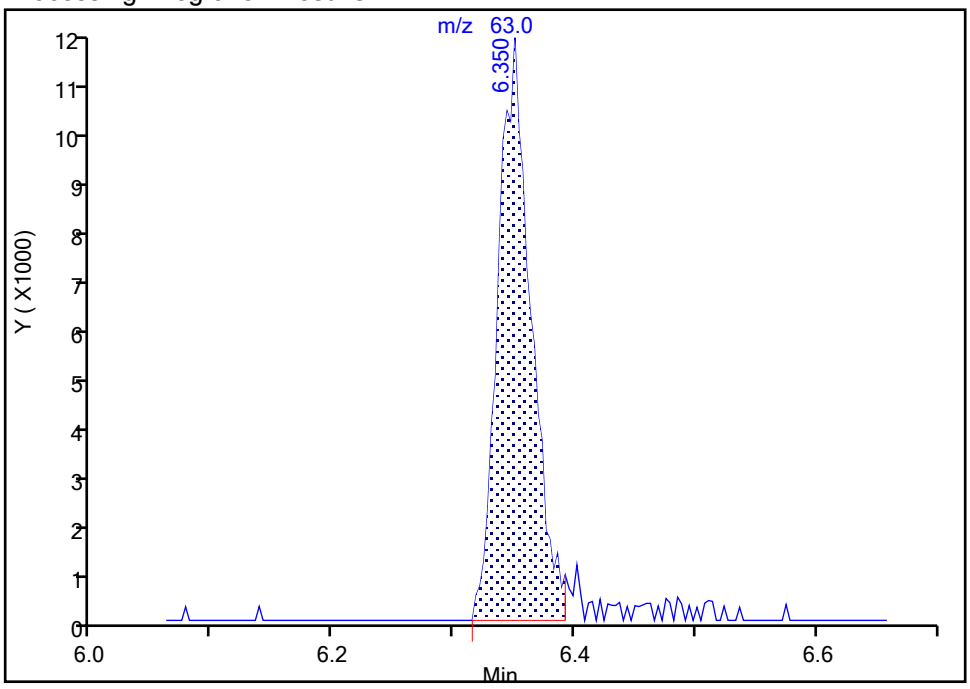
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

72 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

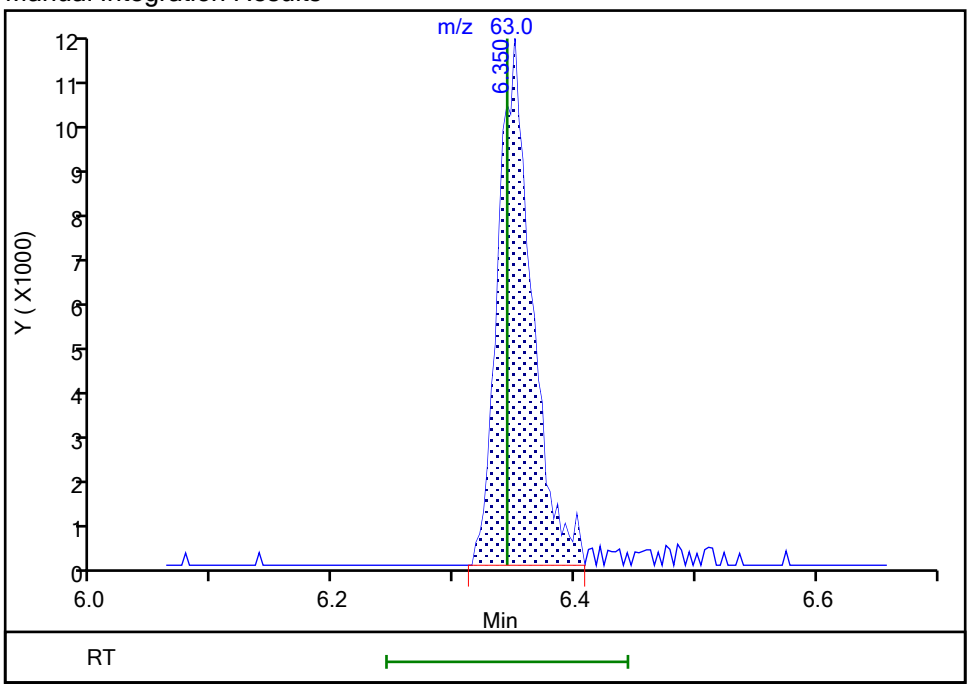
Processing Integration Results

RT: 6.35
Area: 21330
Amount: 3.646741
Amount Units: ug/l



Manual Integration Results

RT: 6.35
Area: 21843
Amount: 3.705525
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:48:23
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

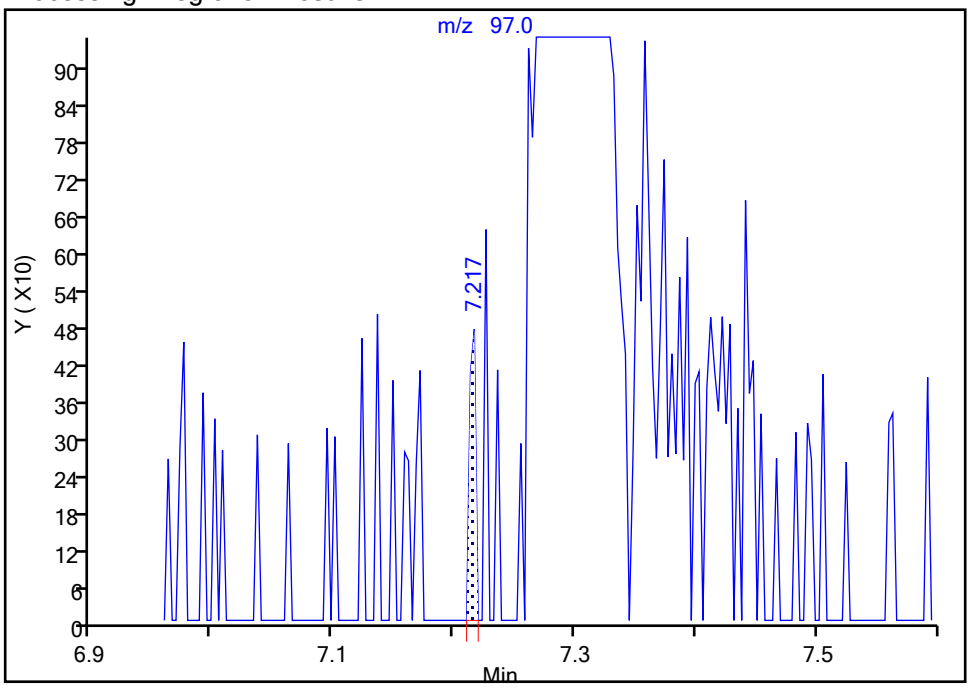
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

81 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

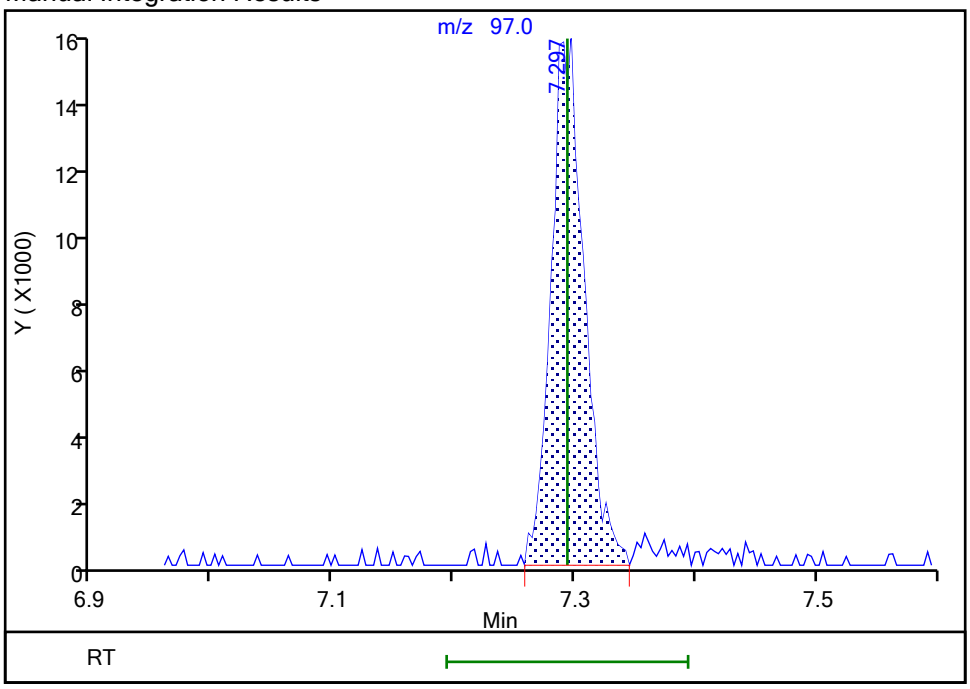
Processing Integration Results

RT: 7.22
Area: 168
Amount: 0.029982
Amount Units: ug/l



Manual Integration Results

RT: 7.30
Area: 29280
Amount: 4.202288
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:49:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

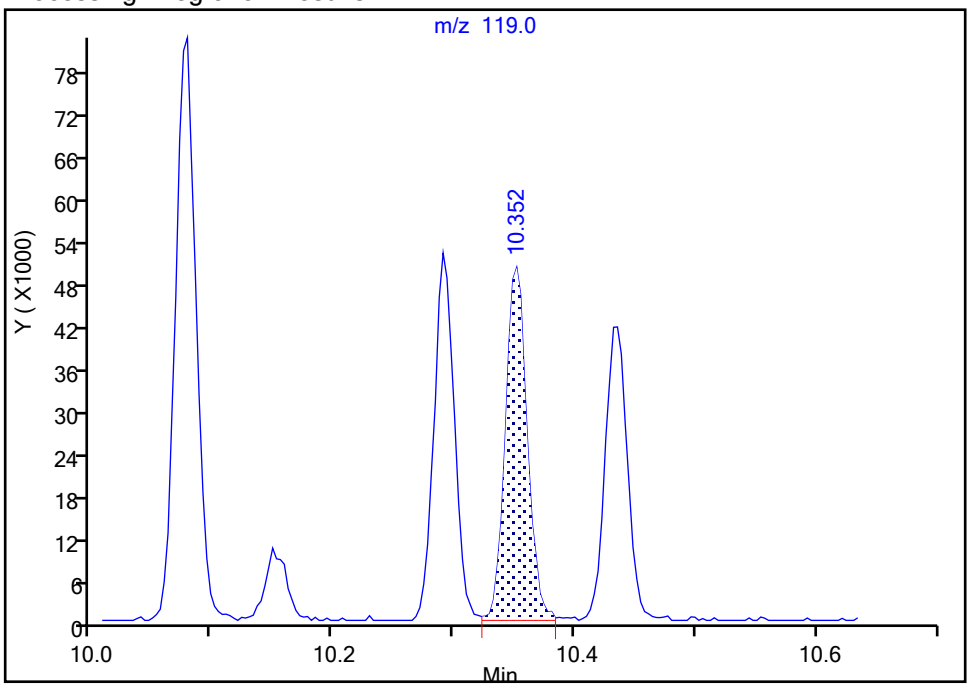
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

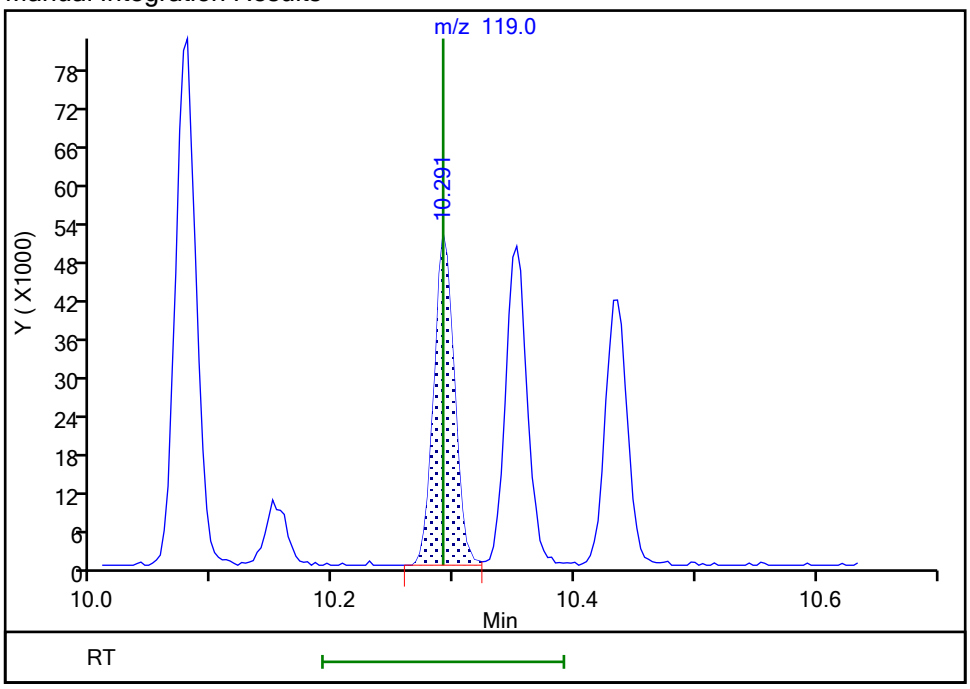
Processing Integration Results

RT: 10.35
Area: 62572
Amount: 4.361272
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 60999
Amount: 4.313802
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:38:59
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

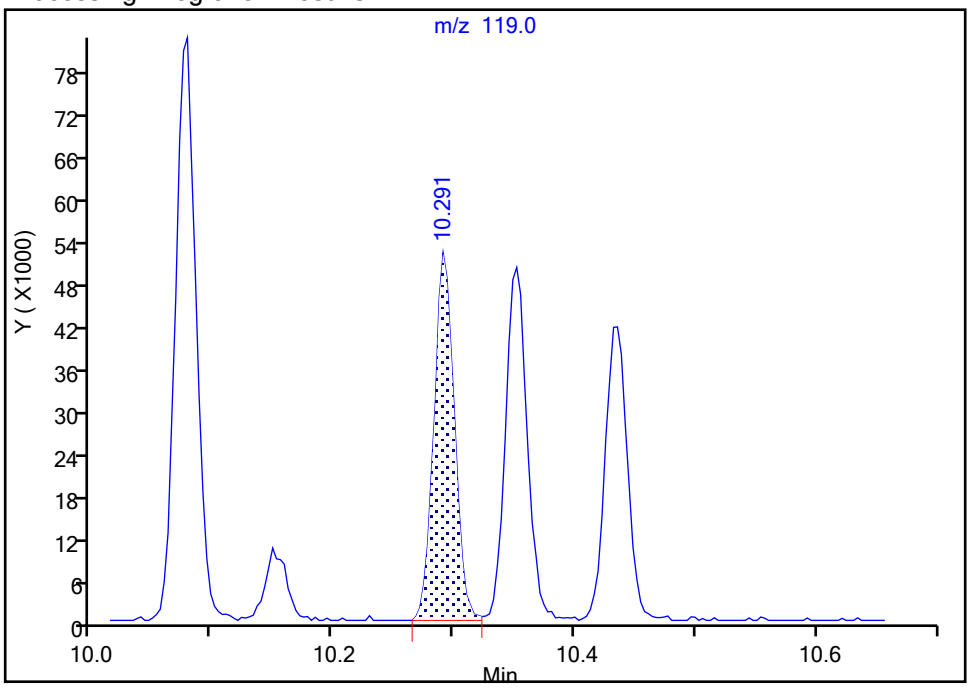
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I06.D
Injection Date: 25-May-2021 17:39:30 Instrument ID: 9137
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

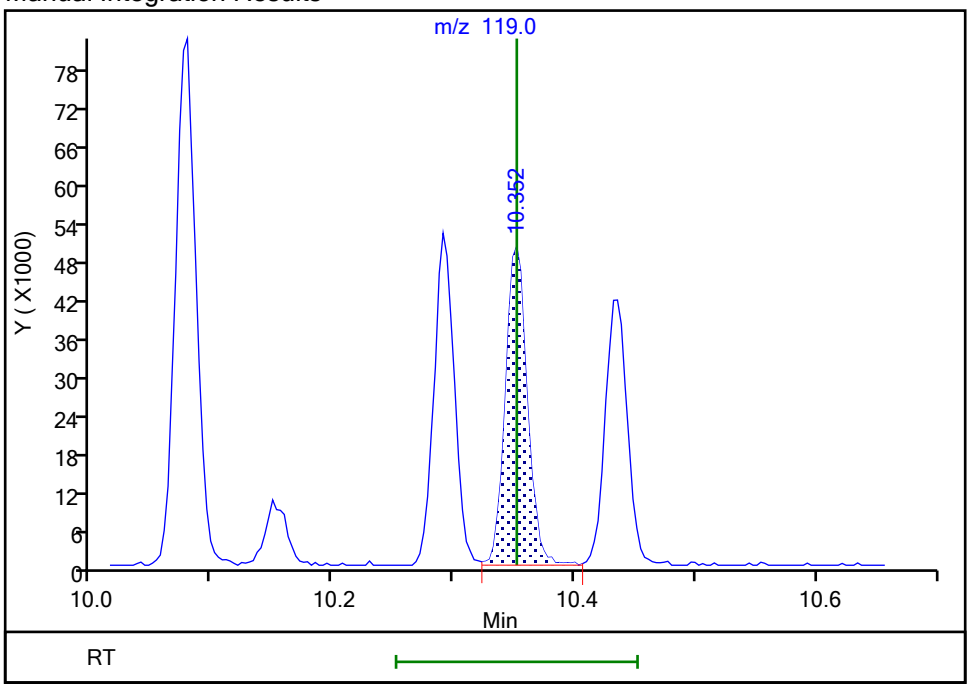
Processing Integration Results

RT: 10.29
Area: 61051
Amount: 4.231541
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 62909
Amount: 4.276276
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:39:08
Audit Action: Manually Integrated Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-May-2021 18:01:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-009
Misc. Info.: IC STD1
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub7

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:17:34 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: papel Date: 26-May-2021 09:10:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.303	1.293	0.010	31	5444	1.00	0.9799	
3 Chloromethane	50	1.431	1.421	0.010	64	8598	1.00	1.02	M
6 Vinyl chloride	62	1.498	1.502	-0.004	96	7703	1.00	0.9353	
7 Butadiene	39	1.515	1.518	-0.003	94	8670	1.00	1.11	M
8 Bromomethane	94	1.733	1.726	0.007	90	5796	1.00	1.05	M
9 Chloroethane	64	1.810	1.803	0.007	92	5159	1.00	1.01	
10 Dichlorofluoromethane	67	1.928	1.932	-0.004	97	11645	1.00	1.06	M
11 Trichlorofluoromethane	101	1.983	1.980	0.003	92	7878	1.00	0.9540	
12 Pentane	43	2.031	2.038	-0.007	89	12080	1.00	1.14	
14 Ethanol	45	2.076	2.082	-0.006	22	11005	62.5	66.1	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.214	2.208	0.006	28	7319	1.00	1.00	M
16 Acrolein	56	2.281	2.281	0.000	95	20053	10.0	8.70	M
17 1,1-Dichloroethene	96	2.384	2.387	-0.003	98	7429	1.00	1.19	M
19 112TCTFE	101	2.384	2.394	-0.010	80	5692	1.00	1.05	
18 Acetone	58	2.407	2.403	0.004	77	4230	2.00	2.09	M
21 Isopropyl alcohol	45	2.522	2.519	0.003	76	8201	20.0	27.3	M
22 Iodomethane	142	2.525	2.528	-0.003	97	10899	1.00	0.9502	
23 Carbon disulfide	76	2.580	2.577	0.003	99	22115	1.00	1.00	
24 3-Chloro-1-propene	41	2.676	2.676	0.000	91	10273	1.00	0.9513	
25 Methyl acetate	43	2.692	2.695	-0.003	20	7535	1.00	0.9738	M
* 27 t-Butyl alcohol-d10 (IS)	65	2.808	2.808	0.000	47	310181	250.0	250.0	M
26 Methylene Chloride	84	2.821	2.814	0.007	88	8125	1.00	1.06	a
28 2-Methyl-2-propanol	59	2.882	2.881	0.001	99	28020	20.0	20.1	M
29 Acrylonitrile	53	3.010	3.003	0.007	76	8588	2.50	2.31	M
30 trans-1,2-Dichloroethene	96	3.039	3.035	0.004	69	7116	1.00	1.05	
31 Methyl tert-butyl ether	73	3.042	3.039	0.003	97	23911	1.00	1.01	M
32 Hexane	57	3.299	3.295	0.004	89	9260	1.00	1.21	M
34 1,1-Dichloroethane	63	3.417	3.424	-0.007	93	11497	1.00	0.9450	
35 Isopropyl ether	45	3.494	3.494	0.000	96	23968	1.00	1.02	M
36 2-Chloro-1,3-butadiene	53	3.517	3.510	0.007	58	11444	1.00	1.03	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.847	3.844	0.003	97	23536	1.00	1.01	M
40 cis-1,2-Dichloroethene	96	3.973	3.972	0.001	77	7839	1.00	1.06	
39 2,2-Dichloropropane	77	3.976	3.976	0.000	56	5387	1.00	1.05	
41 2-Butanone (MEK)	43	3.998	3.992	0.006	99	11101	2.00	2.01	M
42 Propionitrile	54	4.050	4.043	0.007	99	30368	20.0	19.1	M
43 Methacrylonitrile	67	4.194	4.194	0.000	92	45063	10.0	9.92	M
44 Chlorobromomethane	128	4.204	4.204	0.000	41	3357	1.00	0.9544	
45 Tetrahydrofuran	71	4.261	4.255	0.006	93	9159	5.00	5.47	
46 Chloroform	83	4.281	4.284	-0.003	85	12255	1.00	1.03	
$ 48 Dibromofluoromethane (Surr)	113	4.441	4.438	0.003	94	279005	50.0	49.9	
49 1,1,1-Trichloroethane	97	4.470	4.470	0.000	85	9719	1.00	0.99	M
50 Cyclohexane	56	4.537	4.534	0.003	88	11988	1.00	1.07	a
51 1,1-Dichloropropene	75	4.630	4.634	-0.004	91	8505	1.00	0.9338	M
52 Carbon tetrachloride	117	4.630	4.634	-0.004	76	7234	1.00	0.9077	
54 Isobutyl alcohol	41	4.762	4.759	0.003	94	22000	50.0	47.6	M
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.772	0.006	98	74725	50.0	50.5	
56 Benzene	78	4.839	4.839	0.000	96	27525	1.00	0.9630	
57 1,2-Dichloroethane	62	4.845	4.852	-0.007	93	10881	1.00	1.10	
58 Tert-amyl methyl ether	73	4.961	4.961	0.000	97	21673	1.00	0.9504	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	98	1227754	50.0	50.0	
60 n-Heptane	43	5.121	5.124	-0.003	36	7868	1.00	1.13	Ma
61 n-Butanol	56	5.445	5.436	0.009	88	30903	87.5	77.9	M
62 Trichloroethene	95	5.497	5.494	0.003	95	7386	1.00	1.03	
63 Methylcyclohexane	83	5.702	5.699	0.003	88	9986	1.00	1.09	
64 1,2-Dichloropropane	63	5.718	5.721	-0.003	80	7466	1.00	0.9563	
66 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	91	10841	1.00	0.9590	
67 Dibromomethane	93	5.837	5.840	-0.003	73	4651	1.00	0.9832	M
68 Methyl methacrylate	69	5.866	5.863	0.003	77	8004	1.00	1.00	
69 1,4-Dioxane	88	5.879	5.869	0.010	28	4570	50.0	39.0	M
70 Dichlorobromomethane	83	6.010	6.013	-0.003	96	10102	1.00	1.08	M
S 73 1,2-Dichloroethene, Total	100				0			2.11	
71 2-Nitropropane	41	6.251	6.257	-0.006	95	15460	5.00	4.51	M
72 2-Chloroethyl vinyl ether	63	6.354	6.344	0.010	89	5343	1.00	0.8985	M
74 cis-1,3-Dichloropropene	75	6.495	6.491	0.004	91	11659	1.00	0.9342	M
76 4-Methyl-2-pentanone (MIBK)	43	6.674	6.671	0.003	97	25658	2.00	2.08	M
$ 77 Toluene-d8 (Surr)	98	6.780	6.783	-0.003	94	1211439	50.0	49.7	
78 Toluene	92	6.861	6.854	0.007	97	17533	1.00	0.9591	
79 trans-1,3-Dichloropropene	75	7.108	7.101	0.007	92	11267	1.00	0.9480	
80 Ethyl methacrylate	69	7.230	7.220	0.010	91	14223	1.00	1.03	Ma
81 1,1,2-Trichloroethane	97	7.297	7.294	0.003	88	6963	1.00	0.9769	M
84 Tetrachloroethene	166	7.438	7.441	-0.003	74	6956	1.00	0.9886	M
85 1,3-Dichloropropane	76	7.467	7.464	0.003	96	12315	1.00	1.00	M
88 2-Hexanone	43	7.576	7.563	0.013	94	16297	2.00	1.77	M
89 Chlorodibromomethane	129	7.685	7.688	-0.003	87	7592	1.00	1.00	
90 Ethylene Dibromide	107	7.798	7.794	0.004	68	7340	1.00	0.9525	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	86	931077	50.0	50.0	
93 1-Chlorohexane	91	8.253	8.250	0.003	66	11275	1.00	1.26	
94 Chlorobenzene	112	8.253	8.256	-0.003	90	19062	1.00	0.9781	
95 1,1,1,2-Tetrachloroethane	131	8.330	8.330	0.000	89	6214	1.00	0.9326	
96 Ethylbenzene	91	8.362	8.362	0.000	97	31808	1.00	0.9559	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	99	25602	2.00	1.99	
98 o-Xylene	106	8.802	8.799	0.003	96	12890	1.00	0.99	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Styrene	104	8.818	8.812	0.006	95	21913	1.00	0.9683	Ma
100 Bromoform	173	8.959	8.956	0.003	95	5457	1.00	0.9080	
102 Isopropylbenzene	105	9.107	9.107	0.000	96	29914	1.00	0.99	
103 Cyclohexanone	55	9.177	9.171	0.006	94	32975	50.0	51.6	M
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	93	468061	50.0	49.5	
105 Bromobenzene	156	9.338	9.338	0.000	94	7719	1.00	0.9459	
106 1,1,2,2-Tetrachloroethane	83	9.338	9.338	0.000	94	12746	1.00	1.05	
107 1,2,3-Trichloropropane	110	9.370	9.370	0.000	80	3534	1.00	1.00	M
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	95	37584	10.0	9.13	M
109 N-Propylbenzene	91	9.431	9.431	0.000	99	35594	1.00	1.02	
111 2-Chlorotoluene	126	9.492	9.492	0.000	95	6882	1.00	0.9353	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	94	24996	1.00	1.01	
113 4-Chlorotoluene	126	9.579	9.575	0.004	99	7662	1.00	0.9815	
114 tert-Butylbenzene	134	9.806	9.809	-0.003	93	5160	1.00	1.01	M
115 Pentachloroethane	167	9.826	9.822	0.004	83	4037	1.00	0.8475	
116 1,2,4-Trimethylbenzene	105	9.848	9.845	0.003	98	26306	1.00	1.00	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	27835	1.00	1.06	
118 1,3-Dichlorobenzene	146	10.053	10.047	0.006	96	15228	1.00	1.03	
S 123 1,3-Dichloropropene, Total	100				0			1.88	
119 4-Isopropyltoluene	119	10.076	10.079	-0.003	97	25010	1.00	1.07	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	96	492245	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.114	10.114	0.000	90	15789	1.00	1.03	
122 1,2,3-Trimethylbenzene	105	10.150	10.153	-0.003	98	27967	1.00	1.02	
124 Benzyl chloride	91	10.211	10.211	0.000	98	24722	1.00	0.9682	
125 1,3-Diethylbenzene	119	10.294	10.291	0.003	93	14355	1.00	1.00	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	93	15837	1.00	1.06	M
127 n-Butylbenzene	92	10.371	10.368	0.003	97	11455	1.00	1.02	
128 1,2-Dichlorobenzene	146	10.384	10.377	0.007	98	14608	1.00	0.9875	
129 o-diethylbenzene	119	10.432	10.435	-0.003	94	13015	1.00	1.05	
130 1,2-Dibromo-3-Chloropropane	75	10.917	10.913	0.004	80	2729	1.00	0.9150	
133 1,2,4-Trichlorobenzene	180	11.064	11.061	0.003	92	9779	1.00	1.07	
S 132 Xylenes, Total	106				0			2.99	
136 1,2,3-Trichlorobenzene	180	11.475	11.469	0.007	94	9549	1.00	1.05	
134 Hexachlorobutadiene	225	11.584	11.581	0.003	95	4608	1.00	1.33	
135 Naphthalene	128	11.632	11.632	0.000	97	36756	1.00	1.02	
131 1,3,5-Trichlorobenzene	180	11.786	11.789	-0.003	96	9285	1.00	1.05	
137 2-Methylnaphthalene	142	12.357	12.354	0.003	91	17686	1.00	1.03	
S 155 Total Diethylbenzene	1				0			3.12	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEtOH_00199	Amount Added: 12.50	Units: mL	
MSV_HP18_ISSS_00011	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:17:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137 Operator ID: kas02648

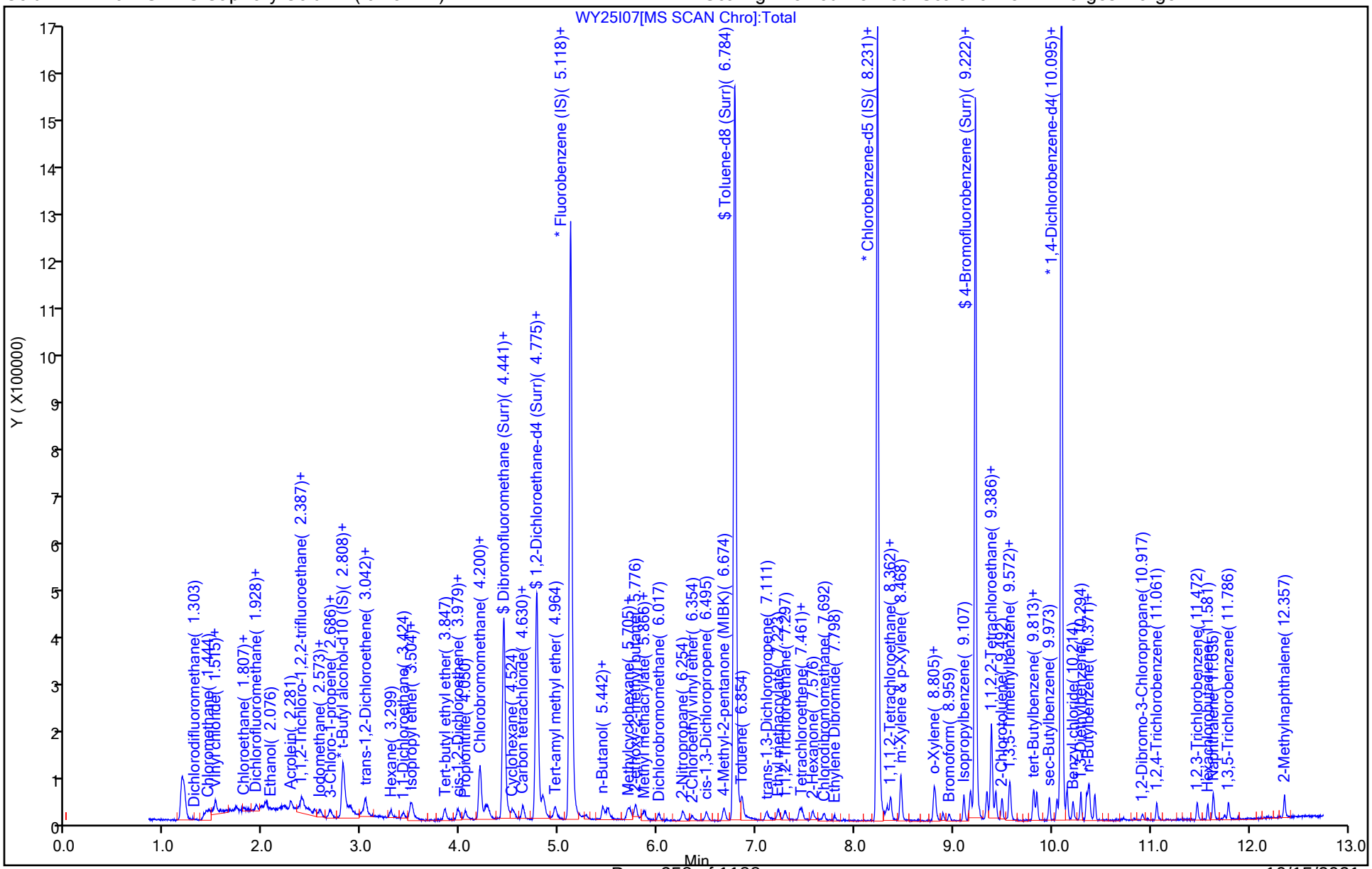
Lims ID: IC std1 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: MSVoa_9137 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

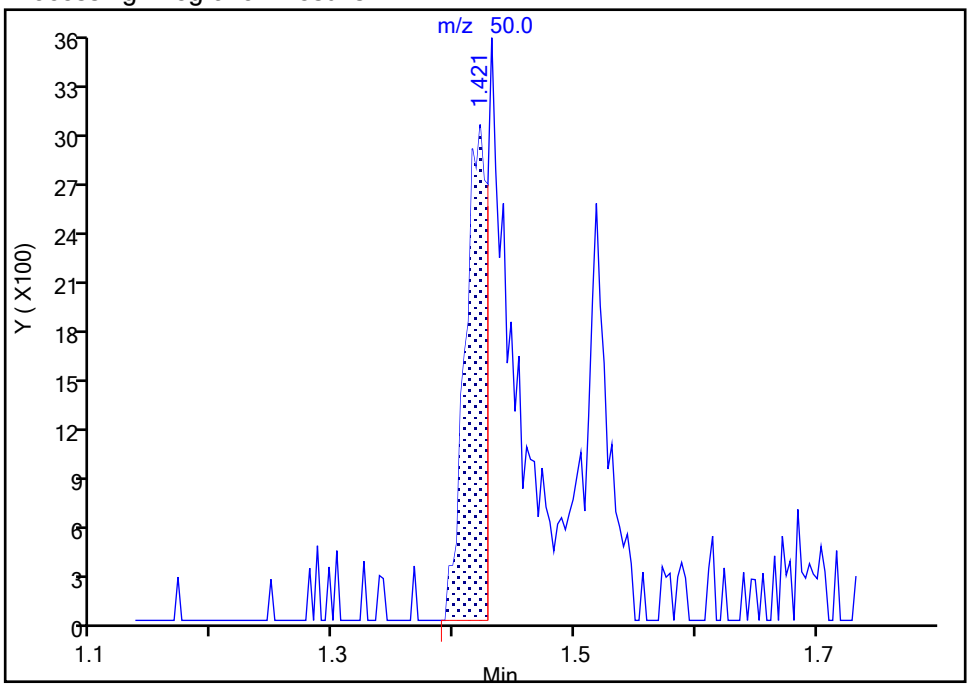
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

3 Chloromethane, CAS: 74-87-3

Signal: 1

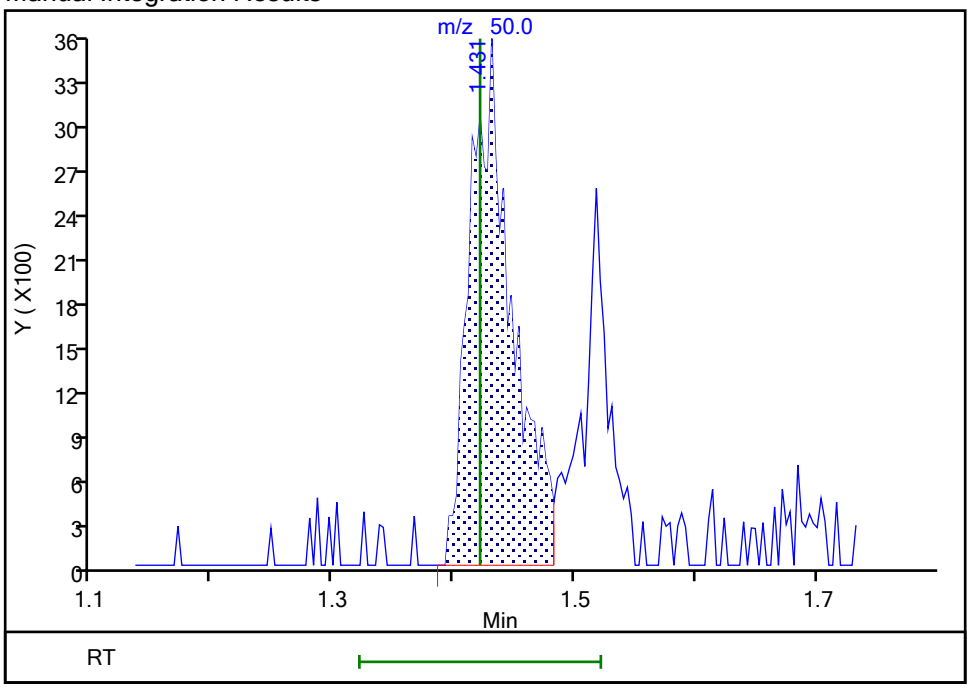
Processing Integration Results

RT: 1.42
Area: 3865
Amount: 0.977450
Amount Units: ug/l



Manual Integration Results

RT: 1.43
Area: 8598
Amount: 1.023414
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:58:14
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

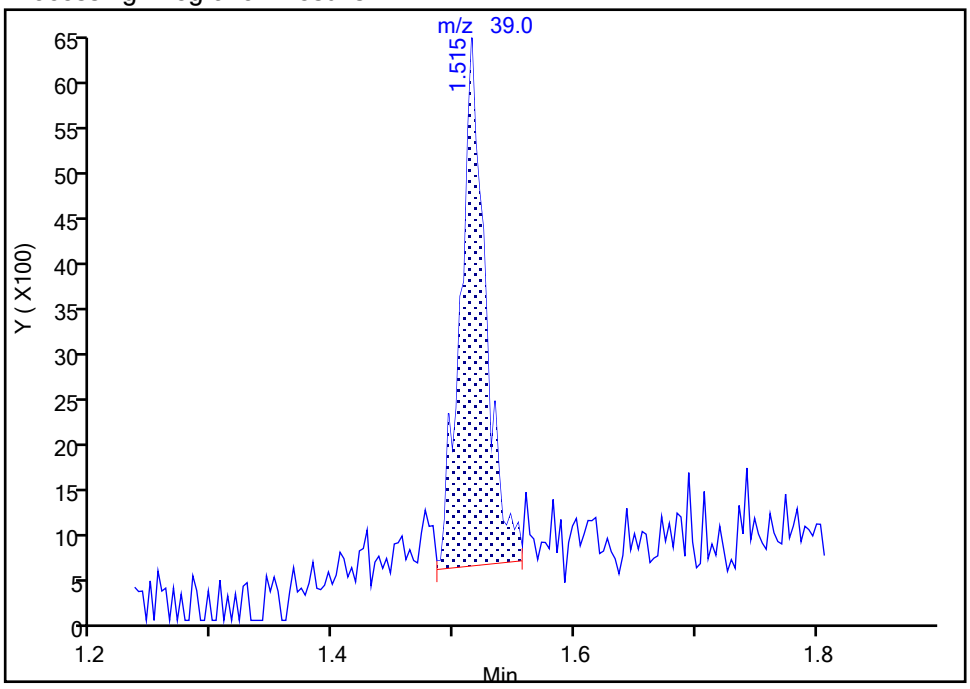
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

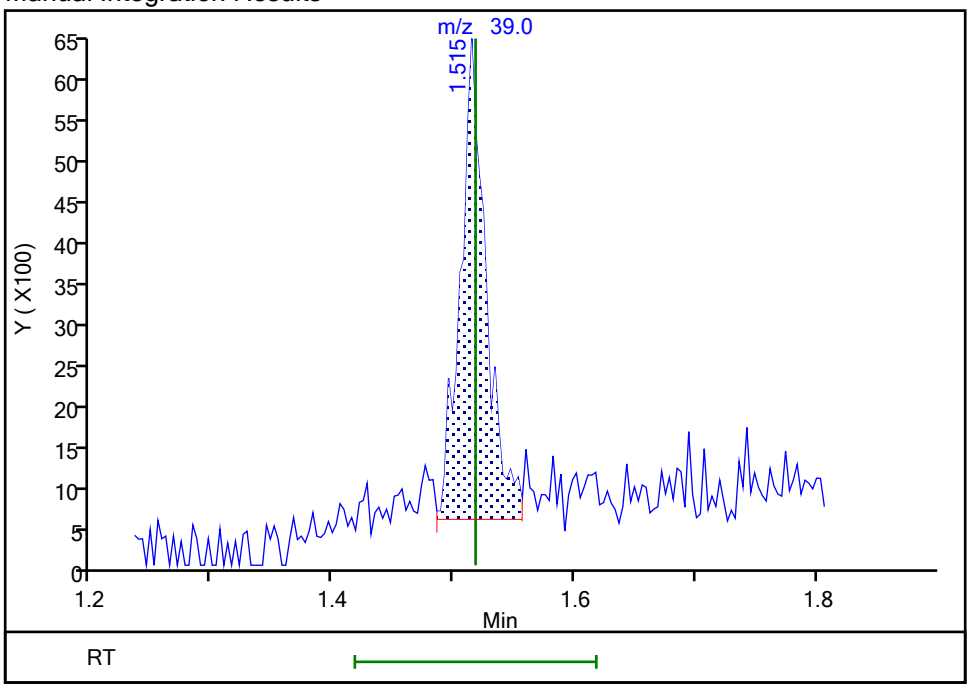
Processing Integration Results

RT: 1.51
Area: 8451
Amount: 1.091119
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 8670
Amount: 1.114891
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:58:38
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

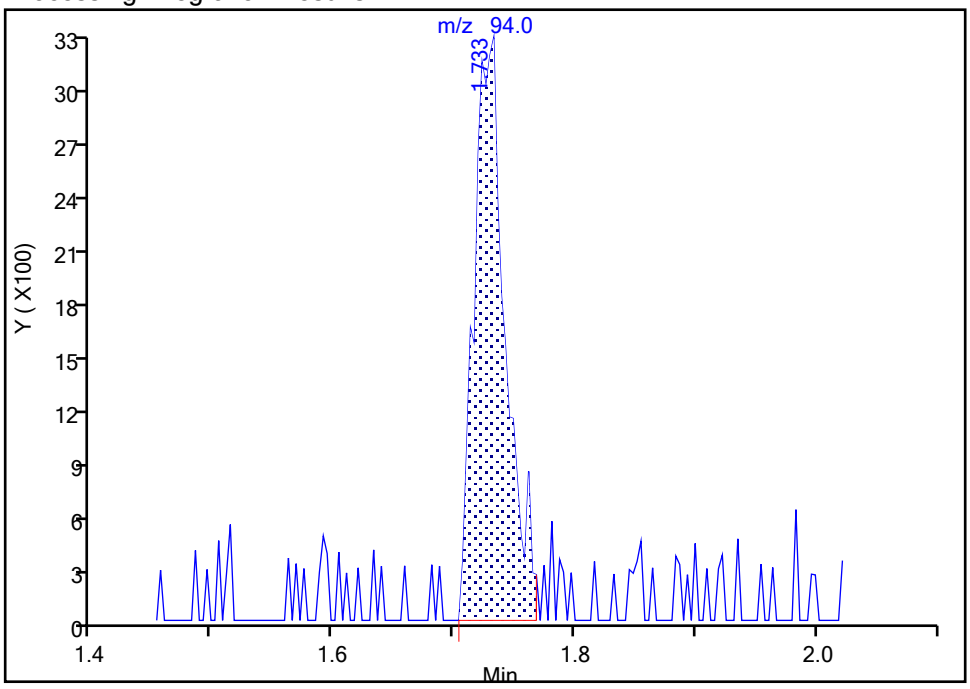
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Injection Date:	25-May-2021 18:01:30	Instrument ID:	9137		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

8 Bromomethane, CAS: 74-83-9

Signal: 1

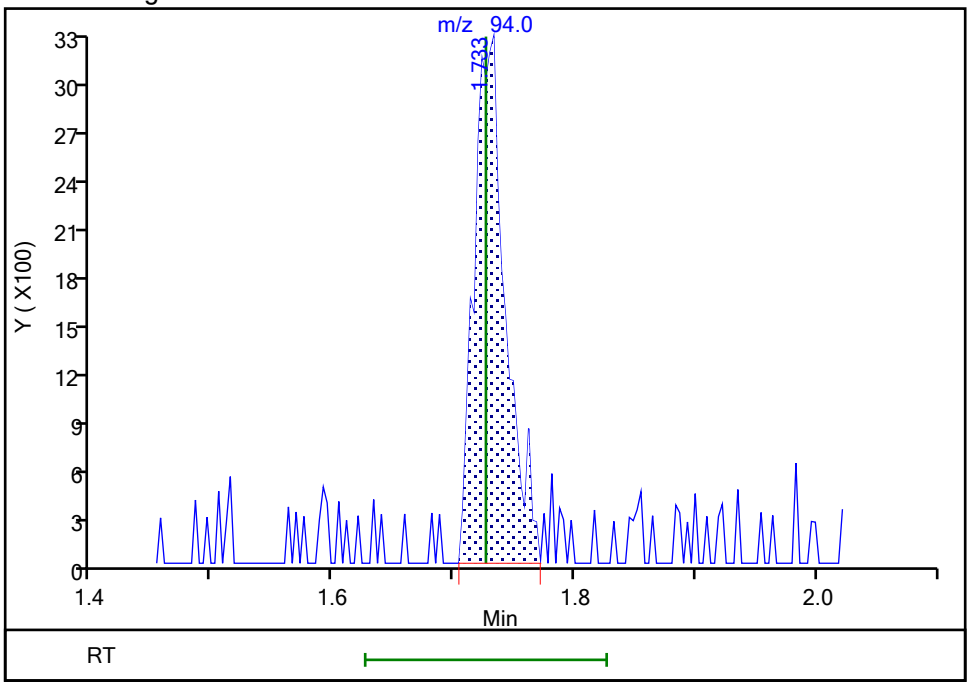
Processing Integration Results

RT: 1.73
Area: 5796
Amount: 1.054580
Amount Units: ug/l



Manual Integration Results

RT: 1.73
Area: 5796
Amount: 1.054580
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:58:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

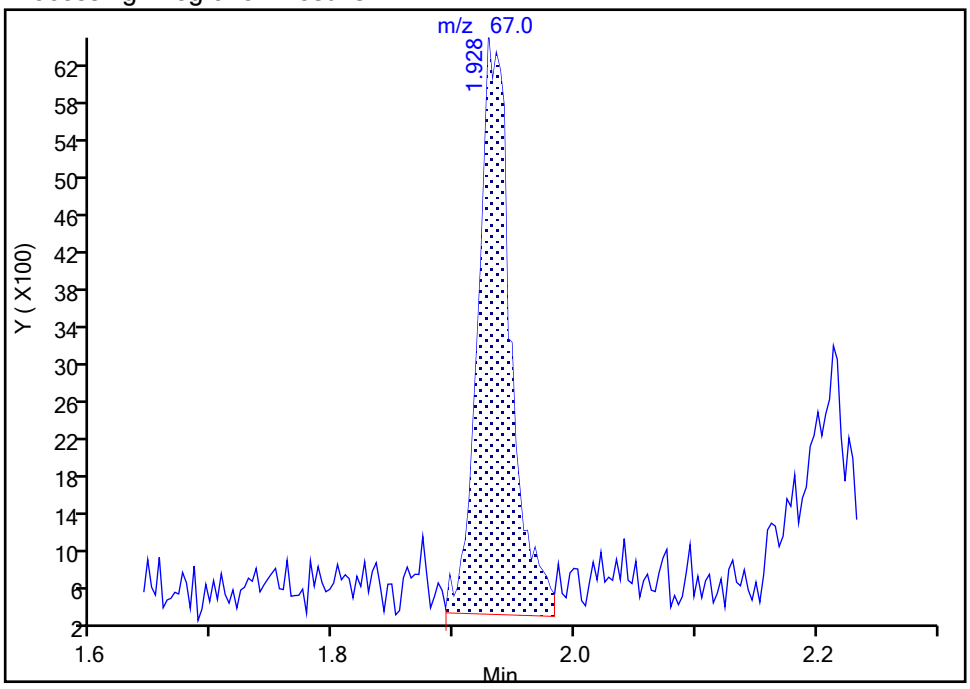
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

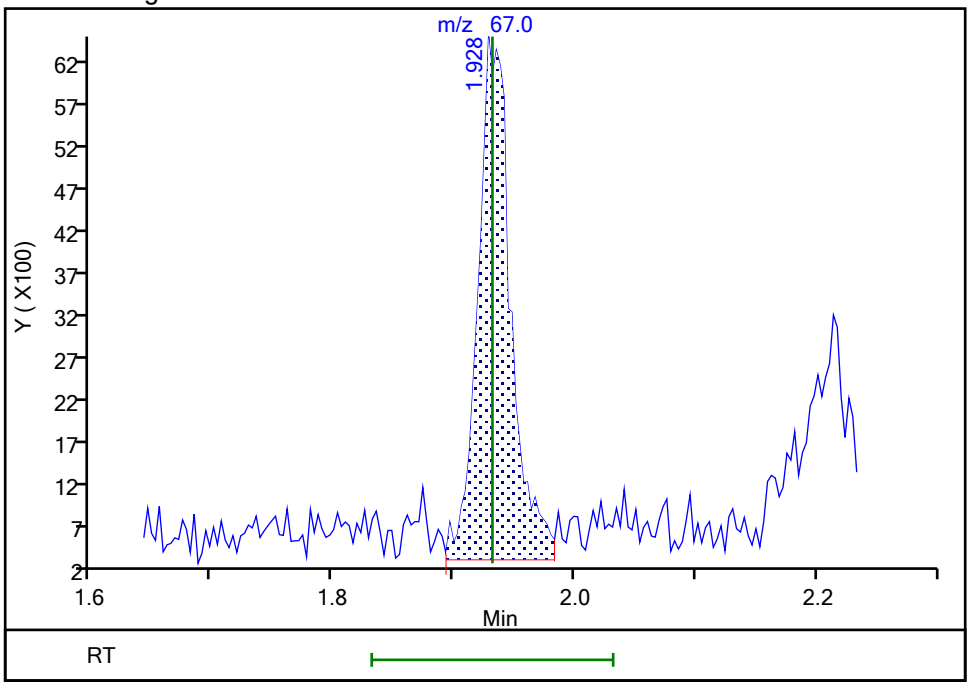
Processing Integration Results

RT: 1.93
Area: 11528
Amount: 1.046568
Amount Units: ug/l



Manual Integration Results

RT: 1.93
Area: 11645
Amount: 1.055588
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:59:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

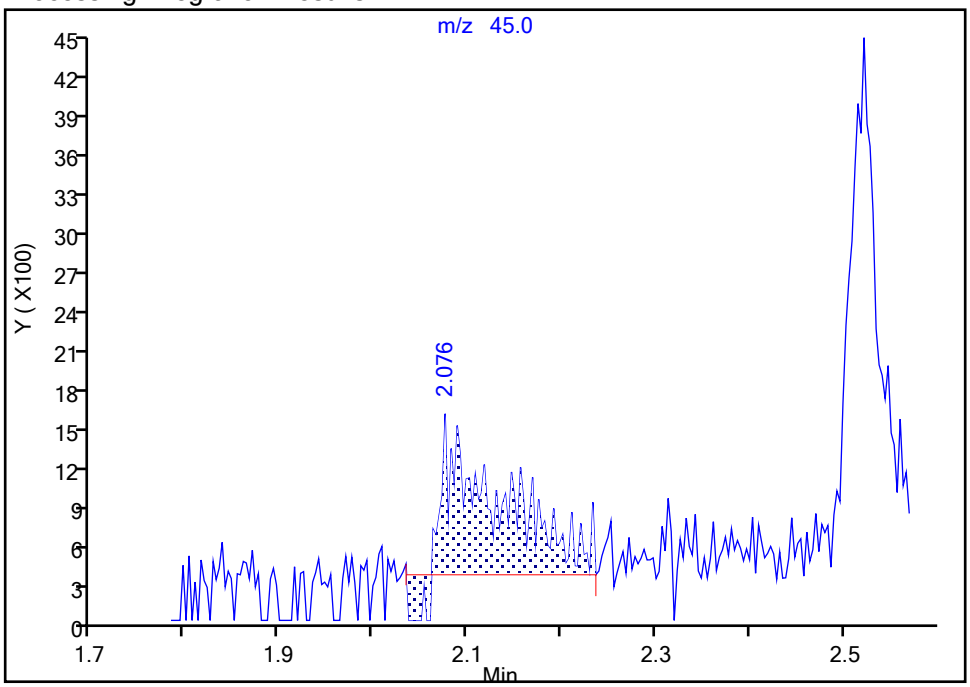
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

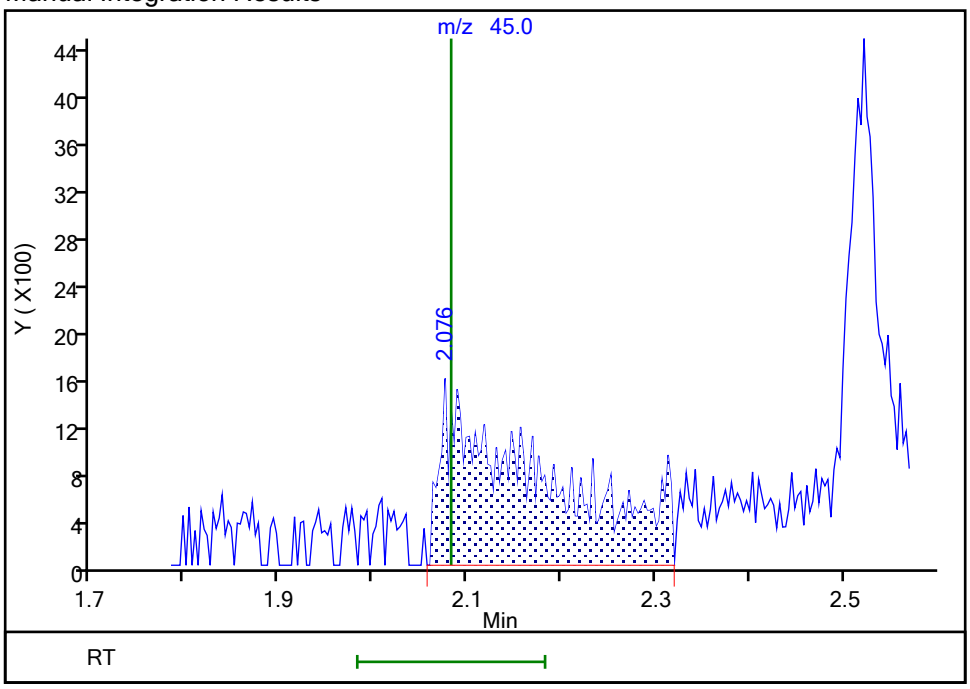
Processing Integration Results

RT: 2.08
Area: 4436
Amount: 53.842847
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 11005
Amount: 66.110070
Amount Units: ug/l



Reviewer: papel, 26-May-2021 08:59:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

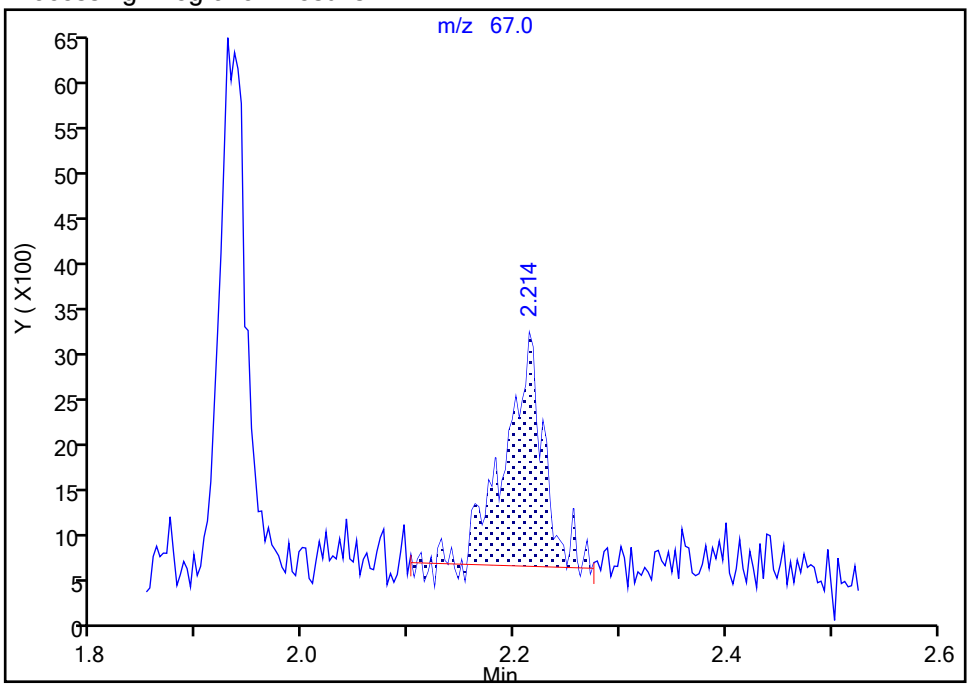
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

15 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

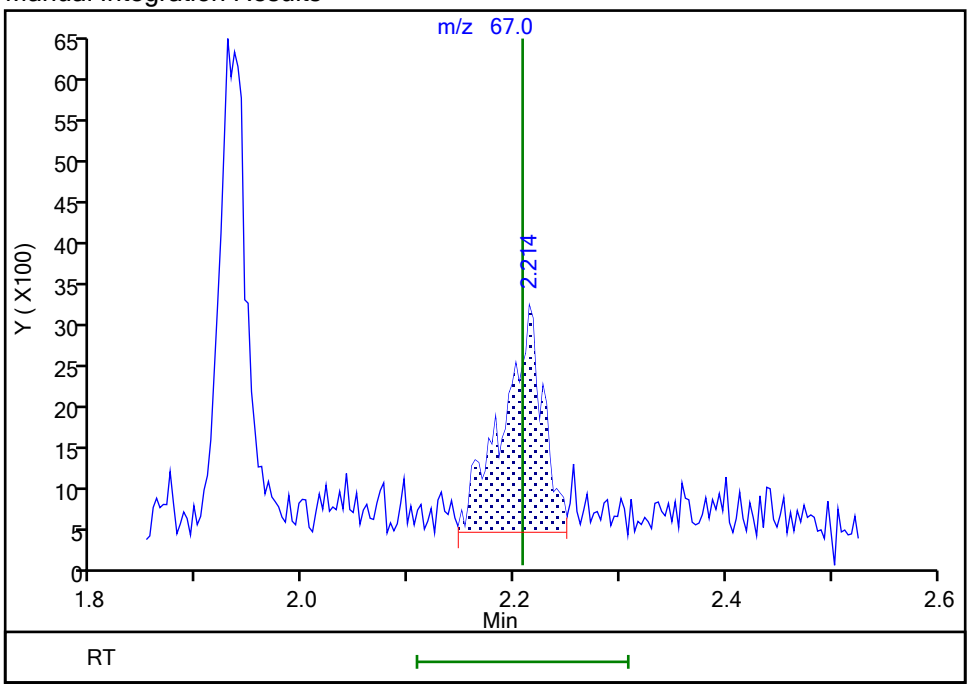
Processing Integration Results

RT: 2.21
Area: 6327
Amount: 0.881794
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 7319
Amount: 1.000292
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:03:06
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

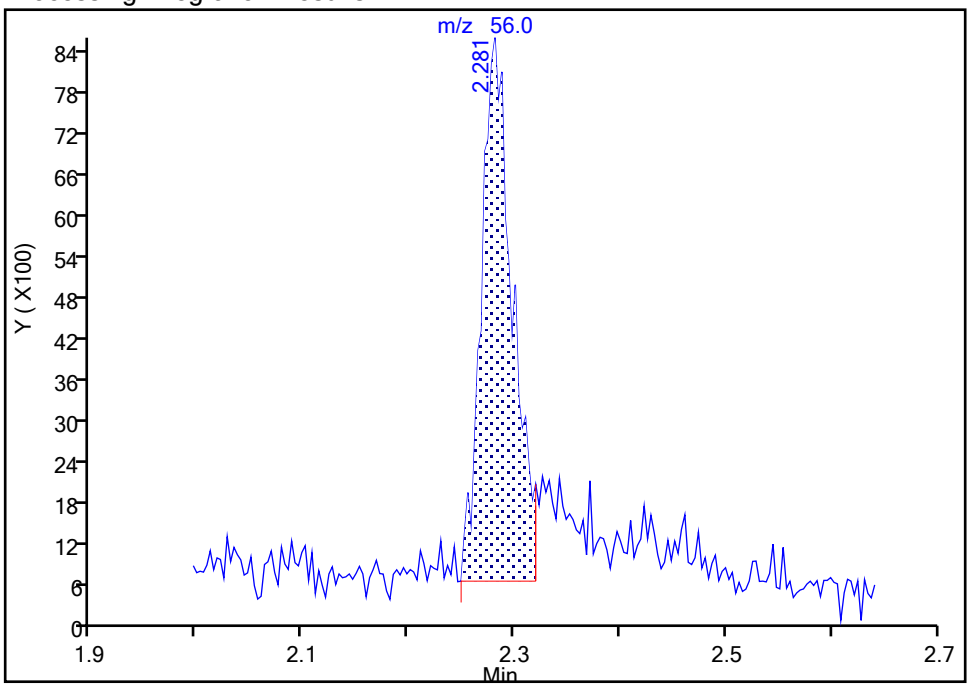
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acrolein, CAS: 107-02-8

Signal: 1

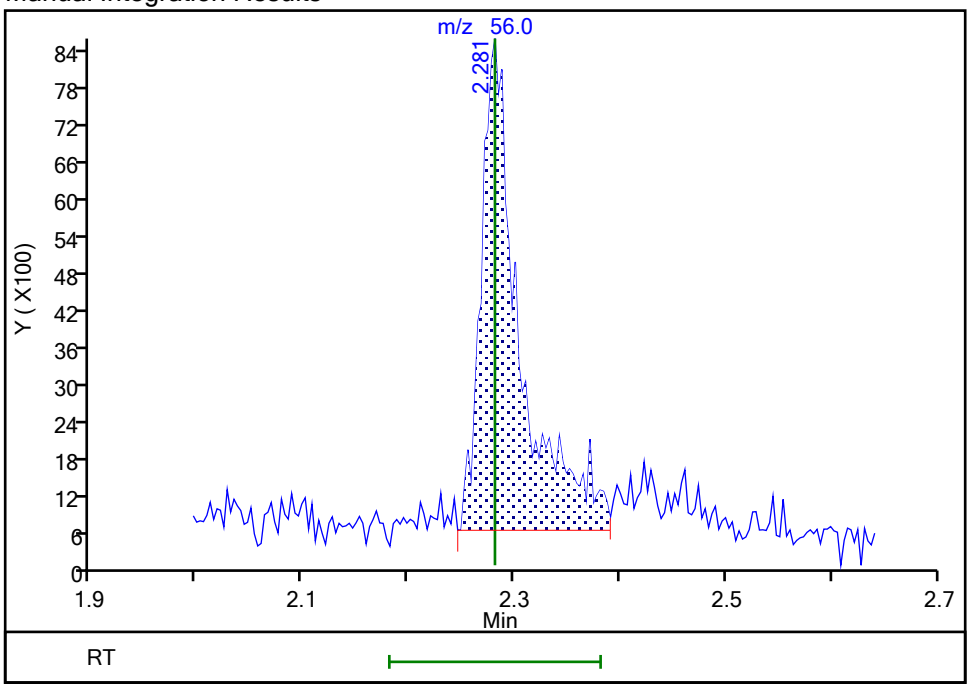
Processing Integration Results

RT: 2.28
Area: 16151
Amount: 7.179336
Amount Units: ug/l



Manual Integration Results

RT: 2.28
Area: 20053
Amount: 8.698308
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:04:06
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

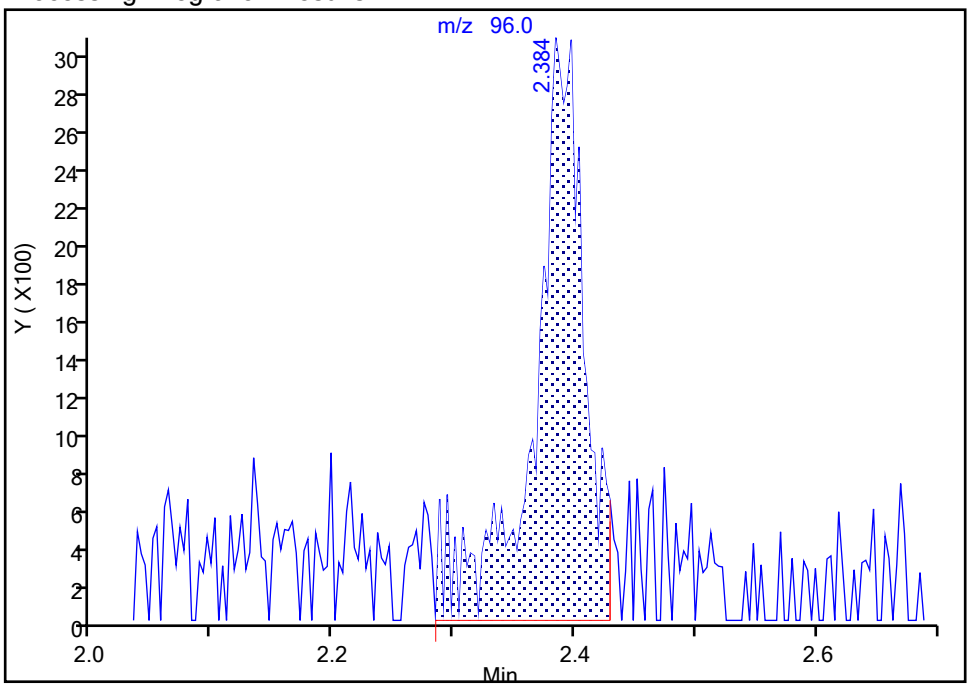
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

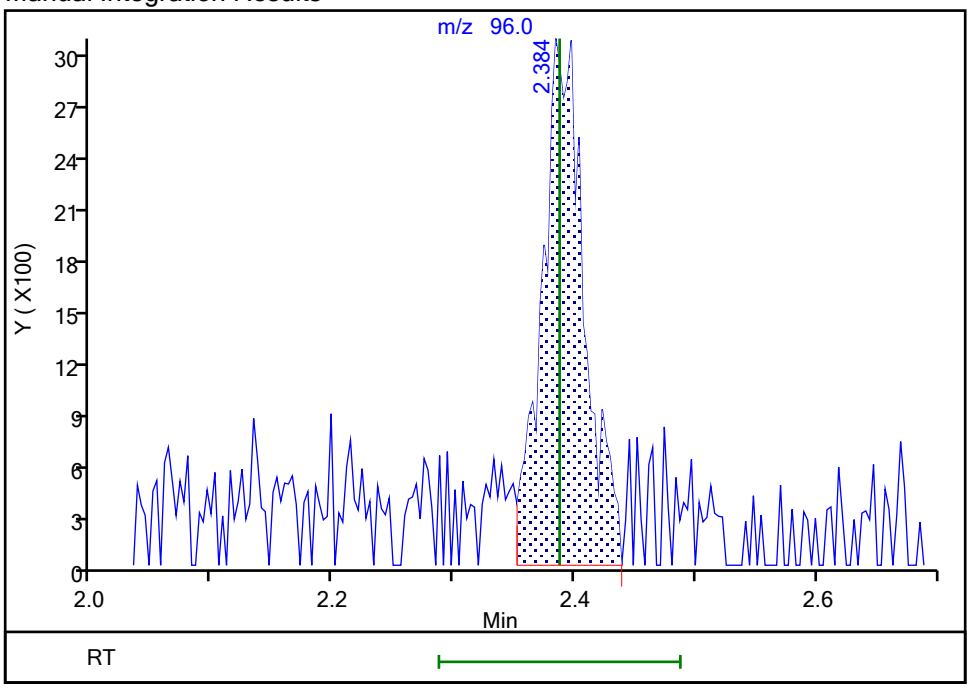
Processing Integration Results

RT: 2.38
Area: 8678
Amount: 1.349620
Amount Units: ug/l



Manual Integration Results

RT: 2.38
Area: 7429
Amount: 1.188350
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:05:06
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

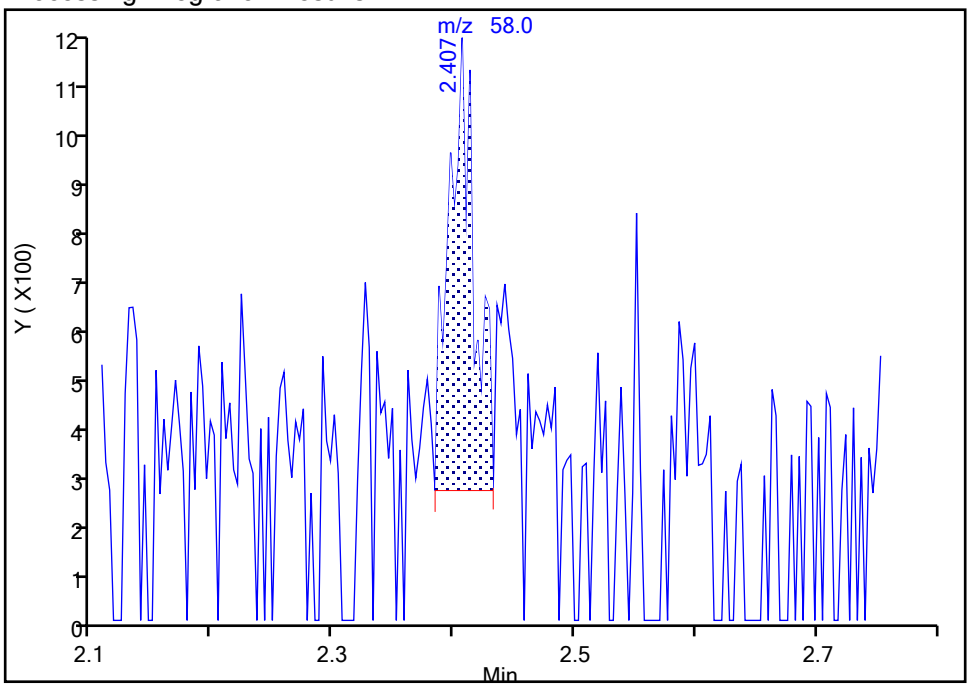
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

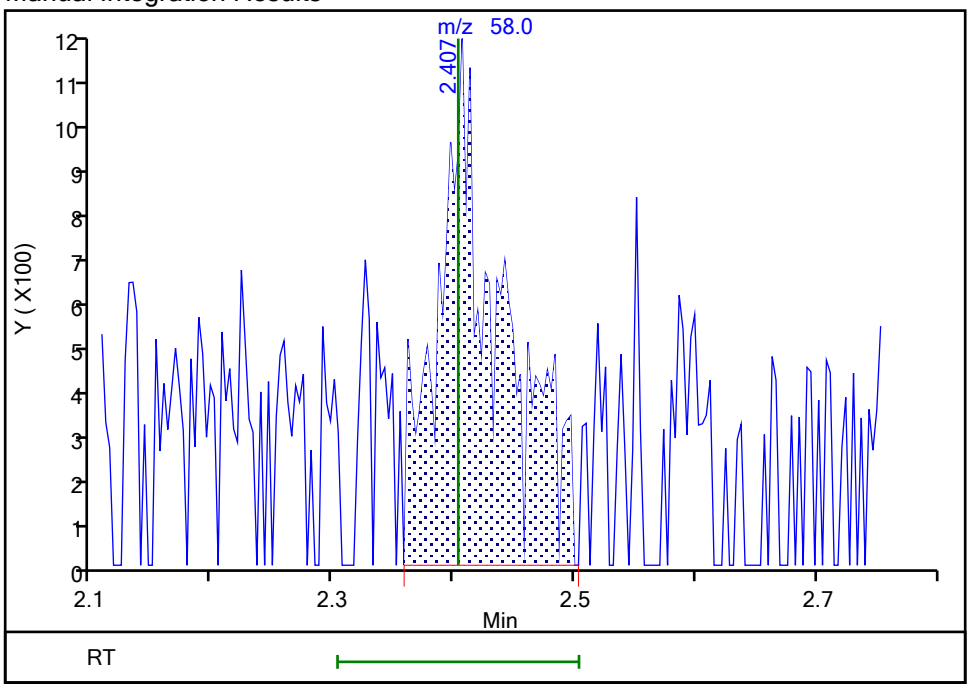
Processing Integration Results

RT: 2.41
Area: 1314
Amount: 1.477814
Amount Units: ug/l



Manual Integration Results

RT: 2.41
Area: 4230
Amount: 2.089603
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:40:41
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

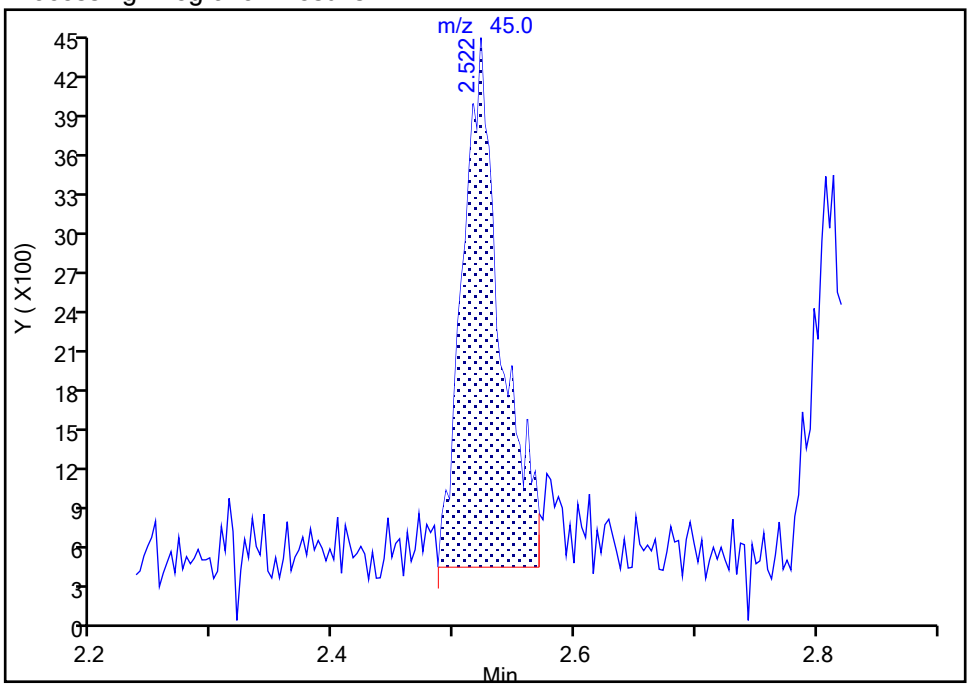
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

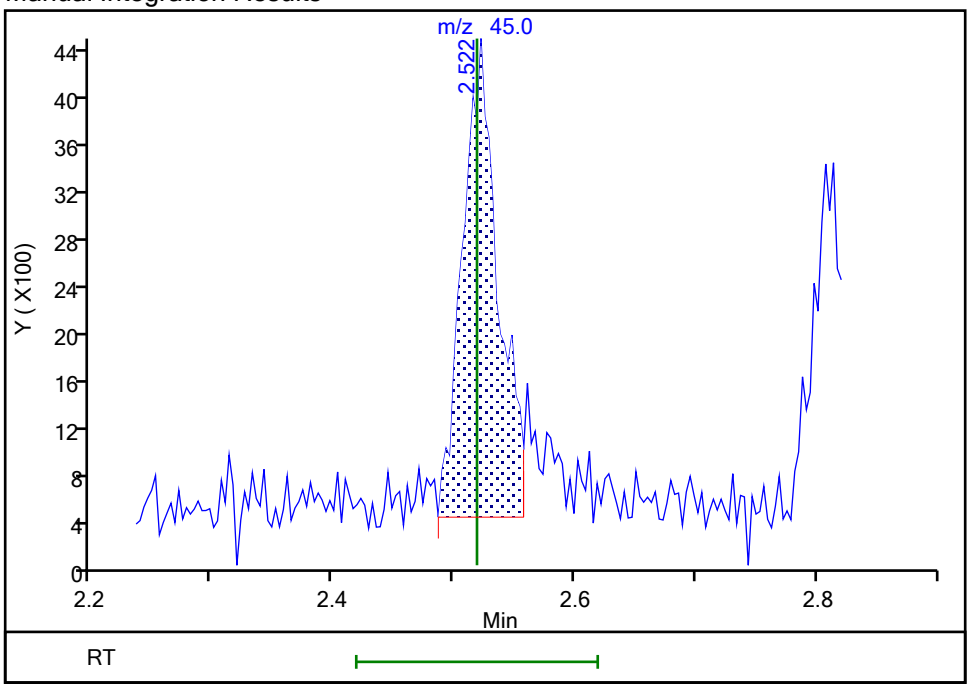
Processing Integration Results

RT: 2.52
Area: 8755
Amount: 36.316929
Amount Units: ug/l



Manual Integration Results

RT: 2.52
Area: 8201
Amount: 27.272192
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:10:12
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

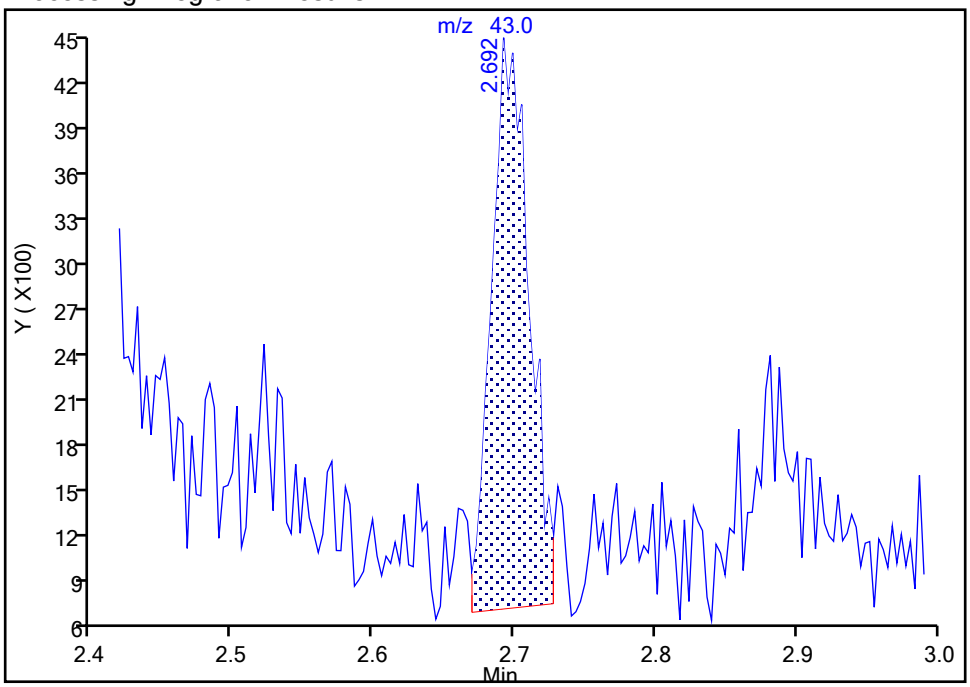
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

25 Methyl acetate, CAS: 79-20-9

Signal: 1

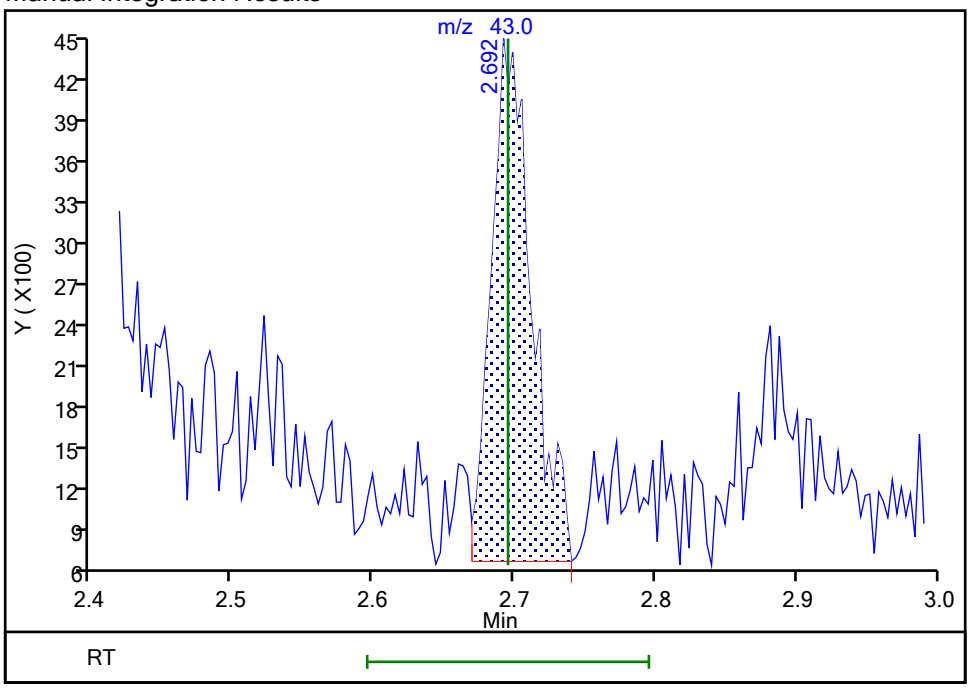
Processing Integration Results

RT: 2.69
Area: 6972
Amount: 0.910516
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 7535
Amount: 0.973813
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:11:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

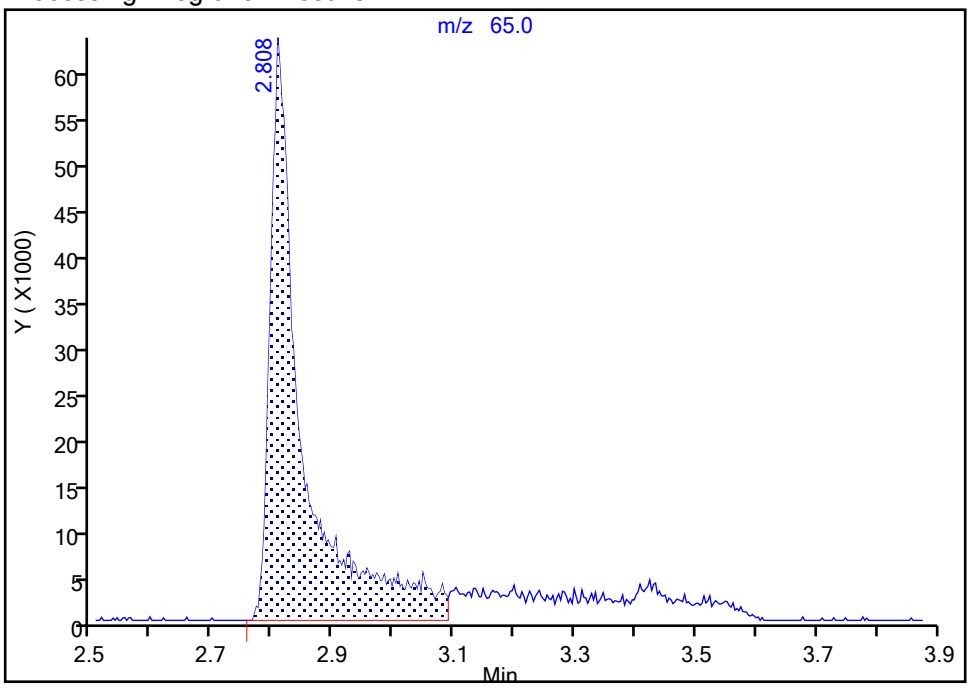
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

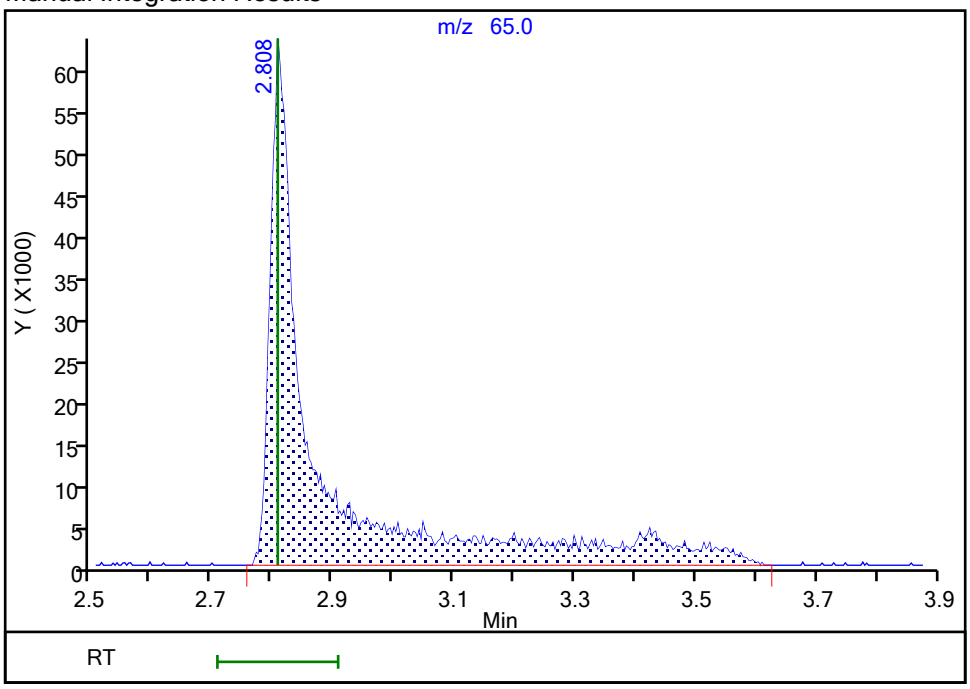
Processing Integration Results

RT: 2.81
Area: 235268
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 310181
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:01:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

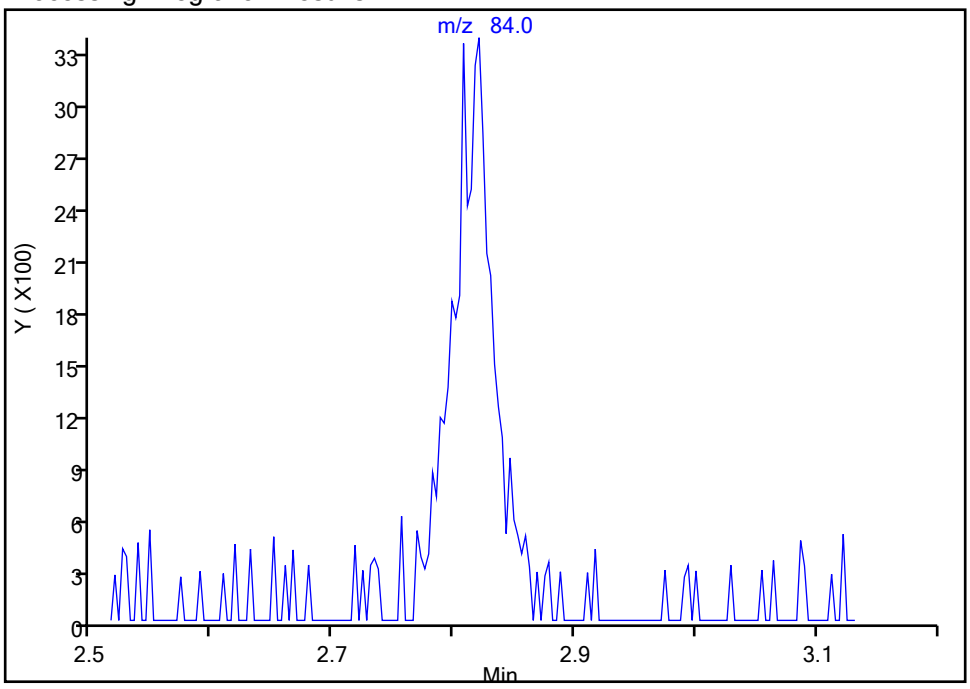
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

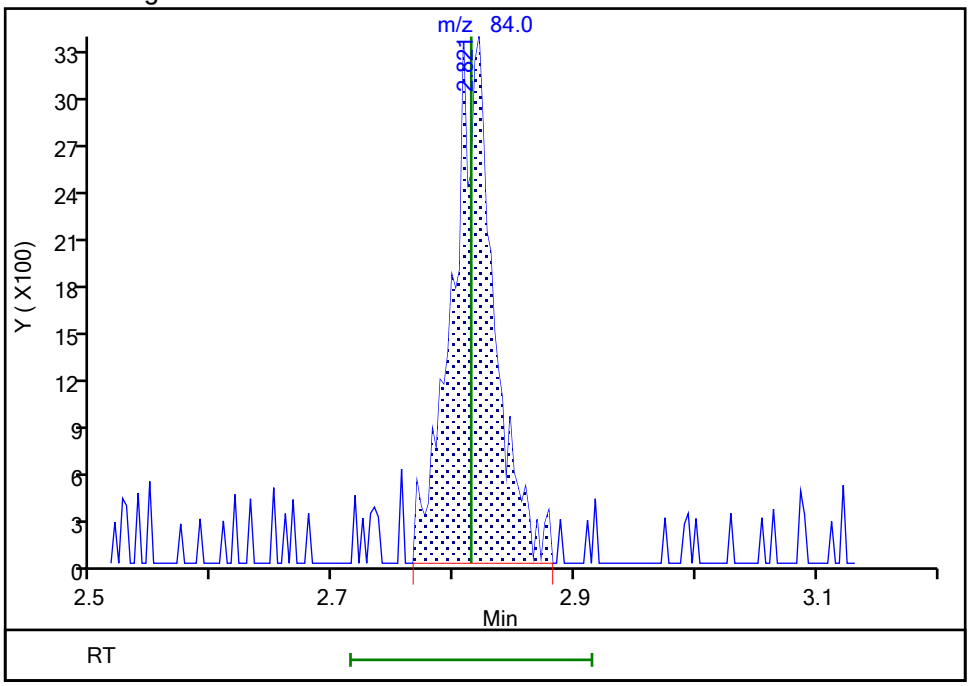
Not Detected
Expected RT: 2.81

Processing Integration Results



Manual Integration Results

RT: 2.82
Area: 8125
Amount: 1.058072
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:11:27
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

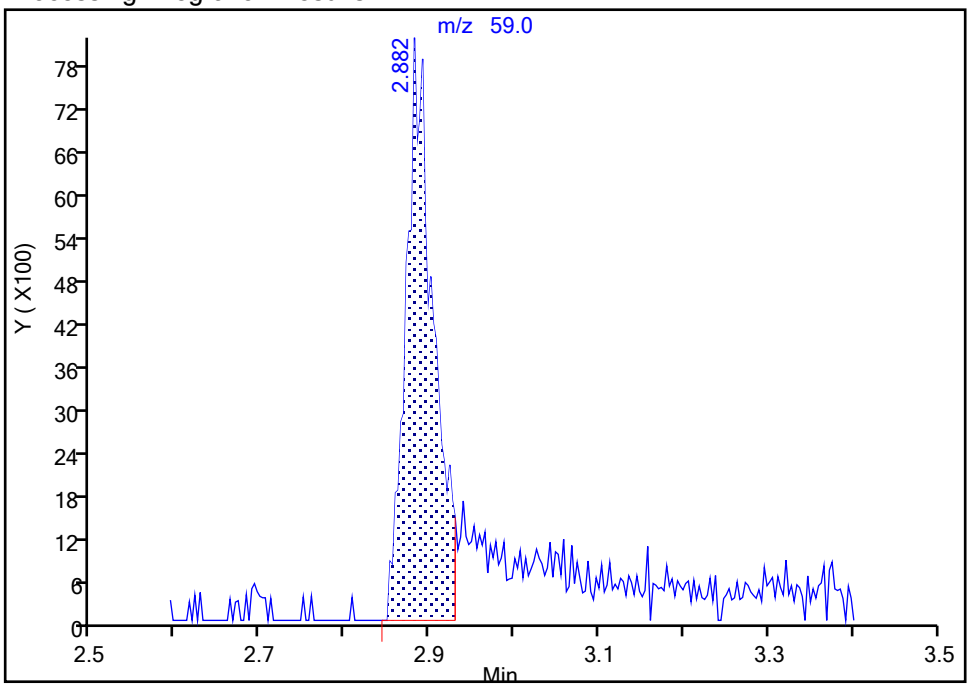
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

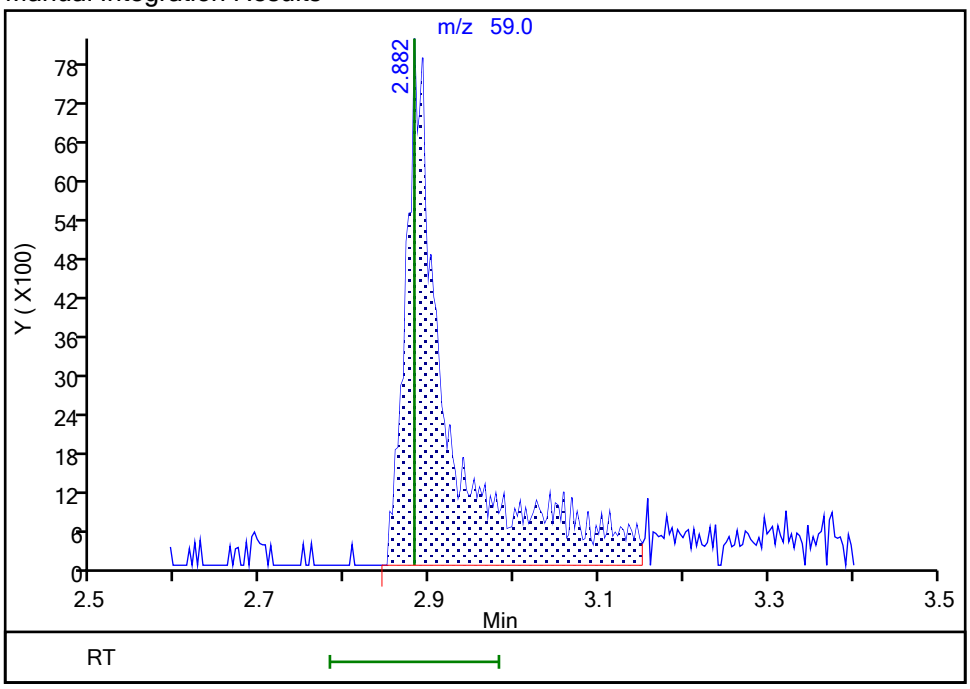
Processing Integration Results

RT: 2.88
Area: 18031
Amount: 13.661640
Amount Units: ug/l



Manual Integration Results

RT: 2.88
Area: 28020
Amount: 20.141221
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:12:13
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

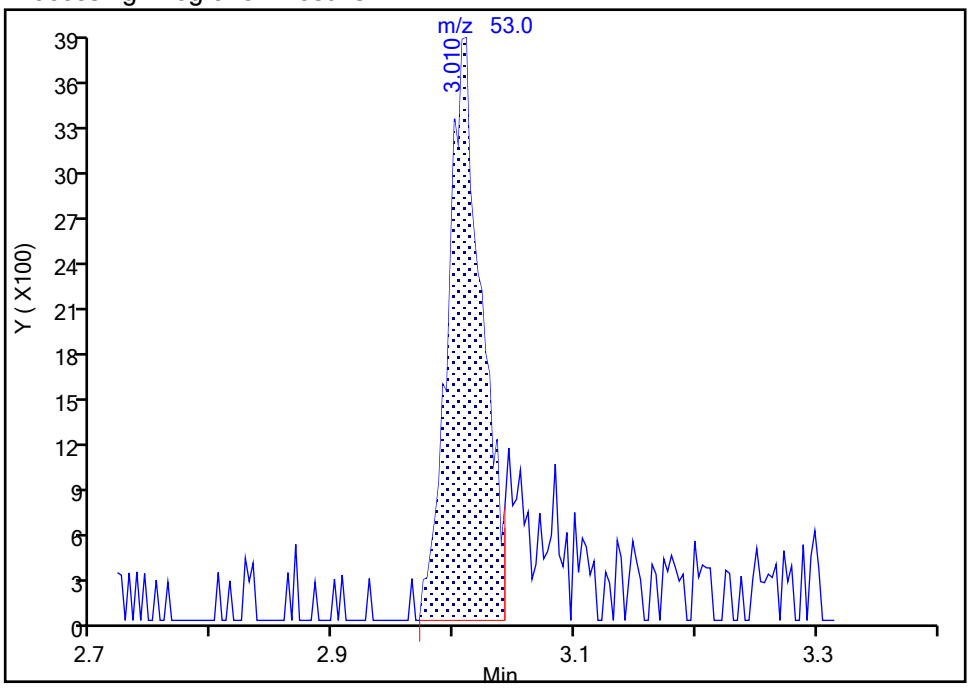
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

29 Acrylonitrile, CAS: 107-13-1

Signal: 1

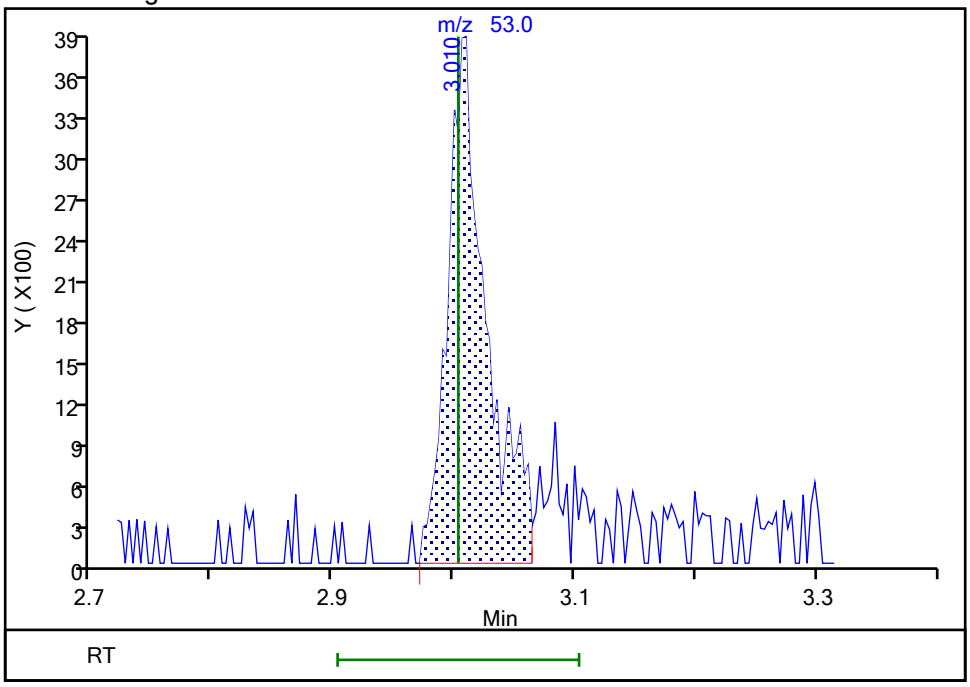
Processing Integration Results

RT: 3.01
Area: 7556
Amount: 2.064571
Amount Units: ug/l



Manual Integration Results

RT: 3.01
Area: 8588
Amount: 2.309340
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:12:50
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

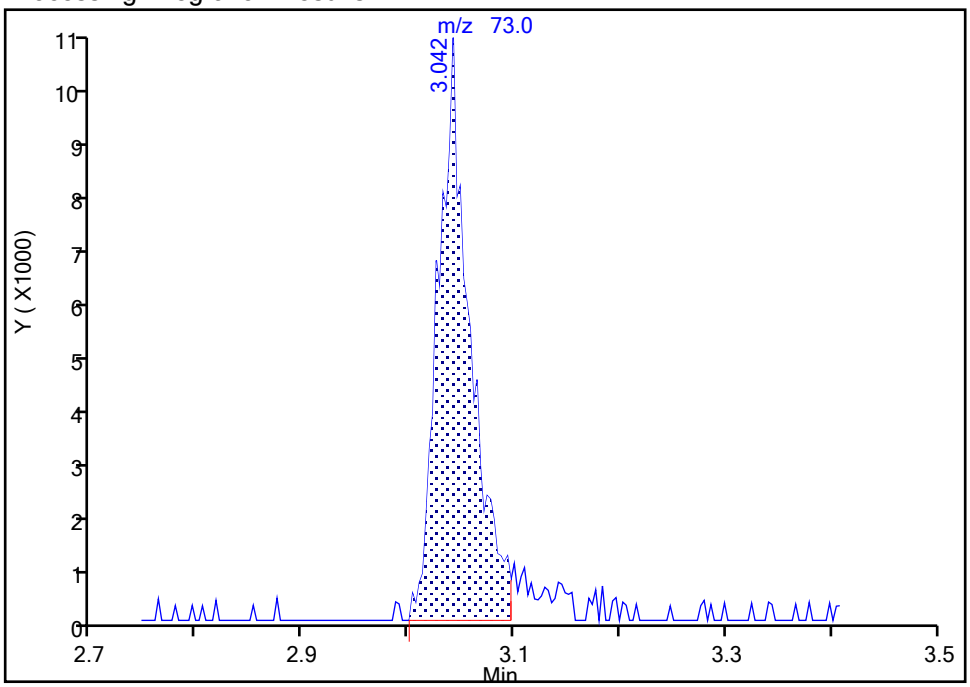
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

31 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

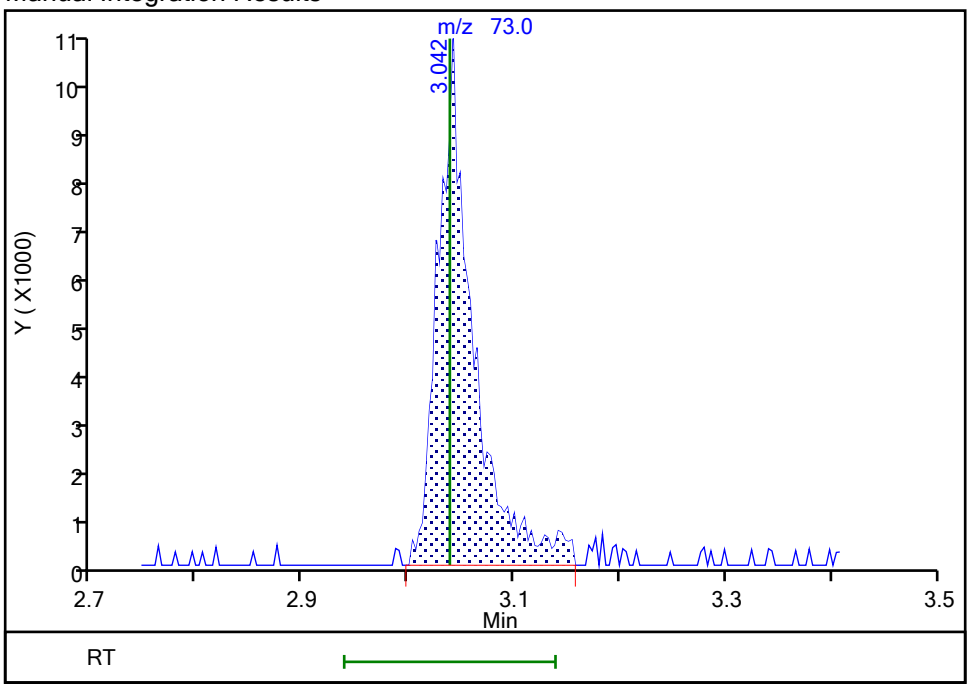
Processing Integration Results

RT: 3.04
Area: 21948
Amount: 0.938347
Amount Units: ug/l



Manual Integration Results

RT: 3.04
Area: 23911
Amount: 1.010161
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:13:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

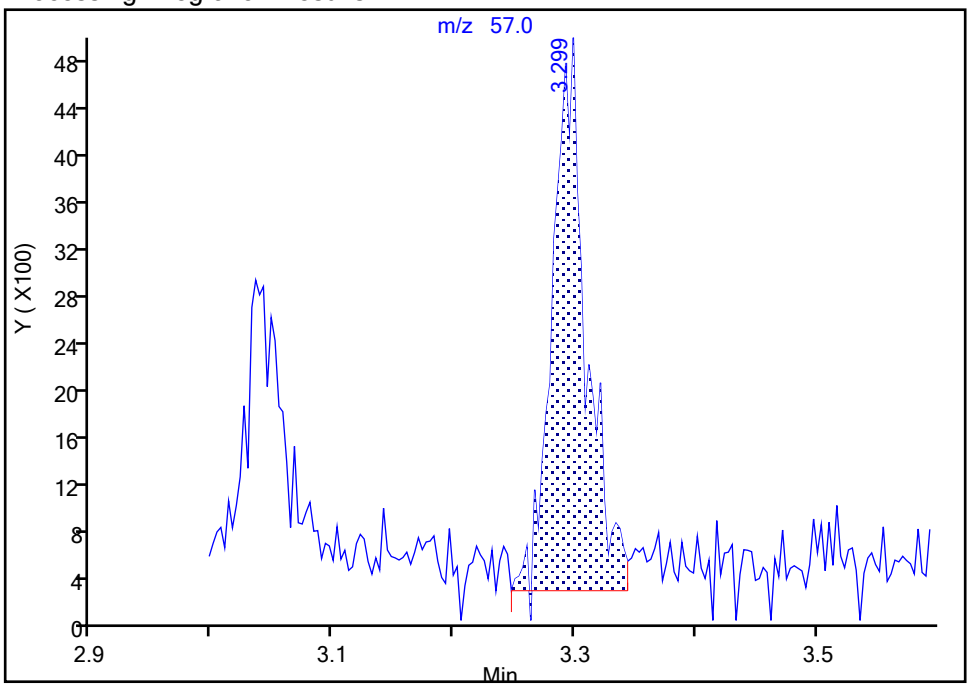
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

32 Hexane, CAS: 110-54-3

Signal: 1

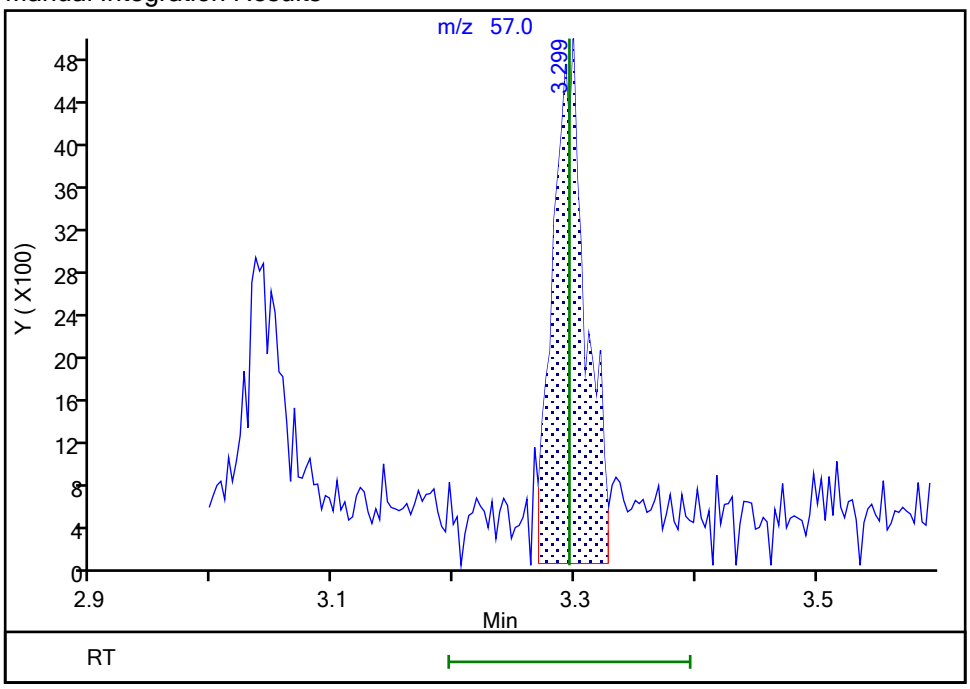
Processing Integration Results

RT: 3.30
Area: 9089
Amount: 1.190479
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 9260
Amount: 1.209008
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:14:48
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

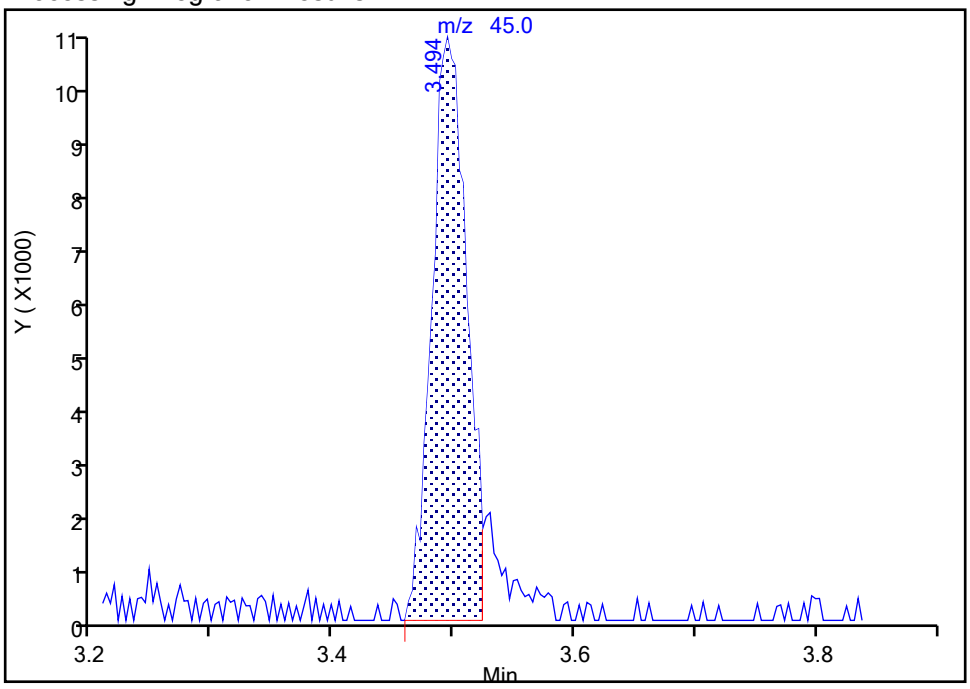
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

35 Isopropyl ether, CAS: 108-20-3

Signal: 1

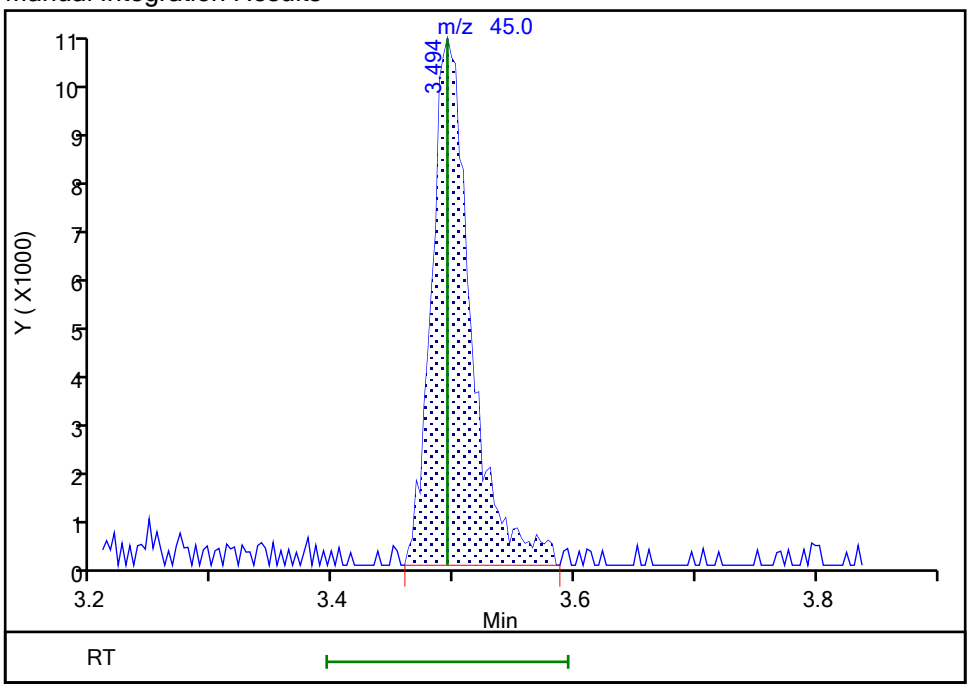
Processing Integration Results

RT: 3.49
Area: 21270
Amount: 0.915908
Amount Units: ug/l



Manual Integration Results

RT: 3.49
Area: 23968
Amount: 1.015237
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:15:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

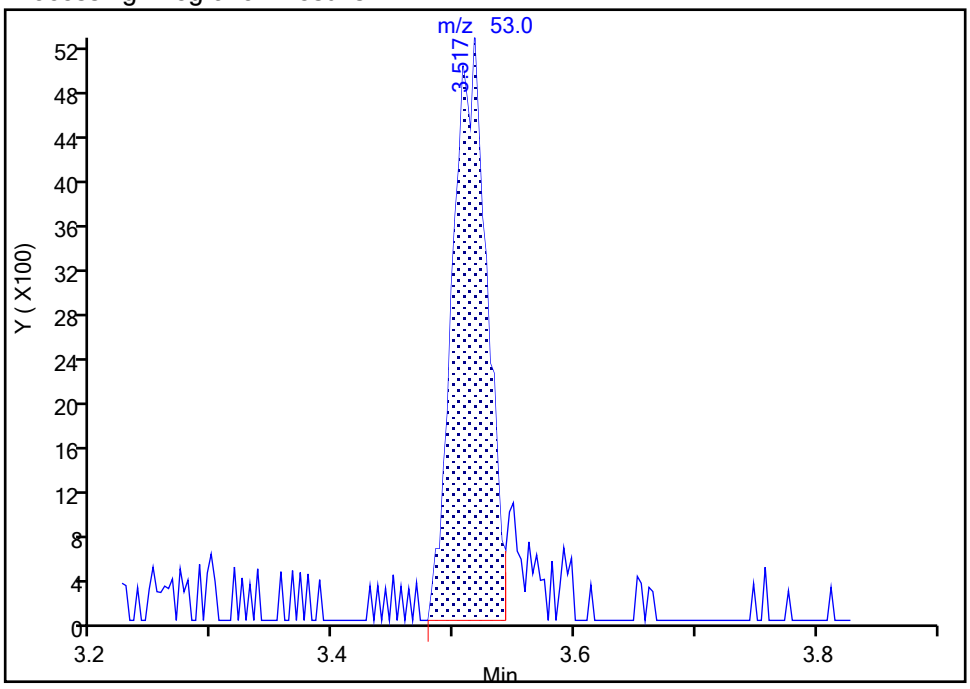
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

36 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

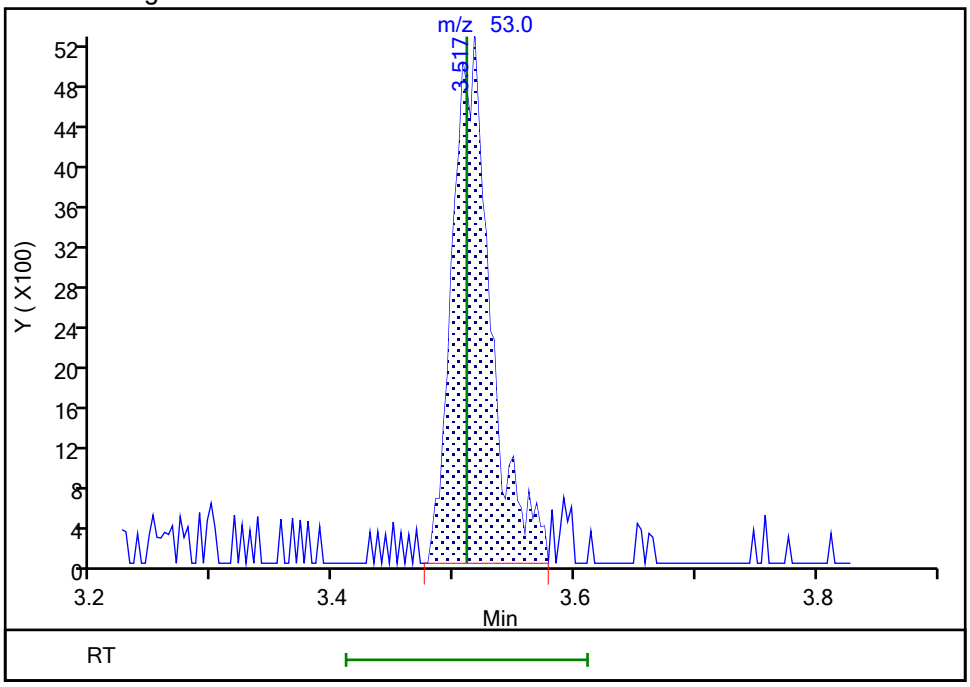
Processing Integration Results

RT: 3.52
Area: 10308
Amount: 0.938350
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 11444
Amount: 1.026596
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:15:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

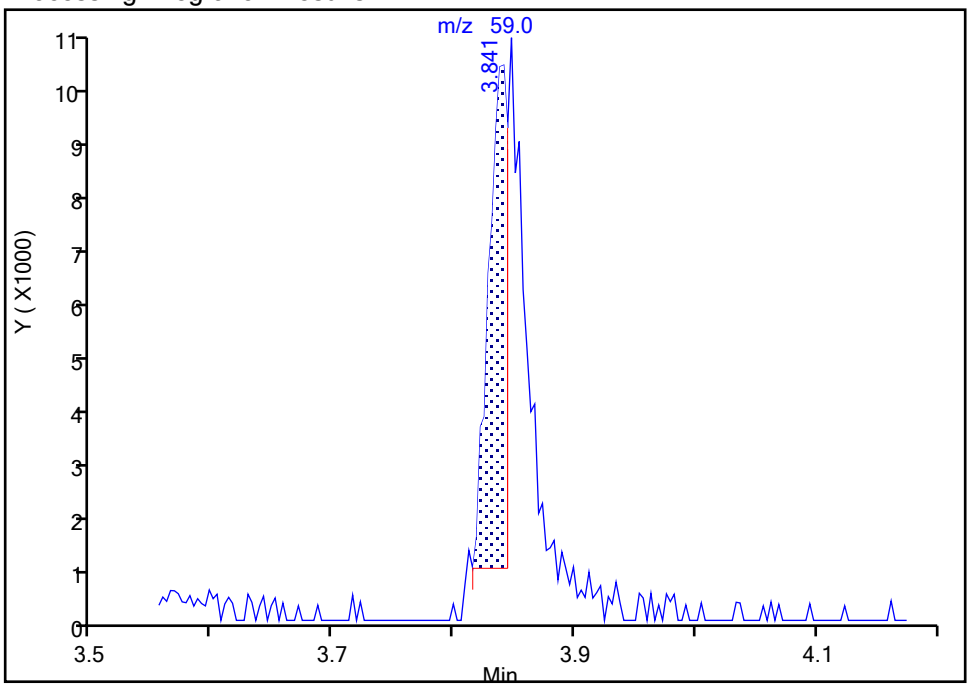
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

37 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

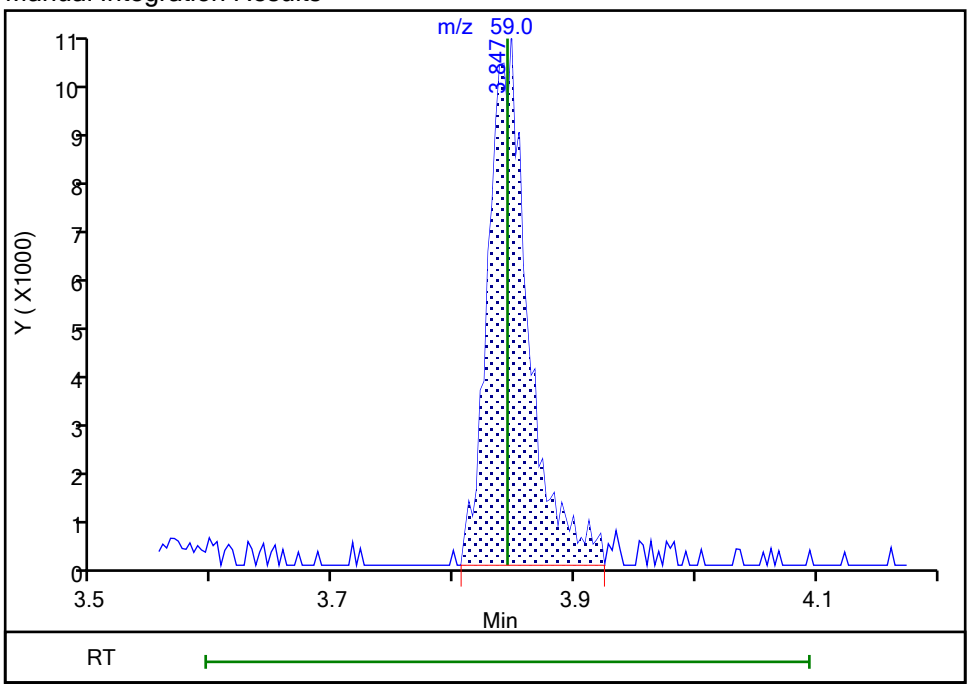
Processing Integration Results

RT: 3.84
Area: 9697
Amount: 0.977017
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 23536
Amount: 1.014326
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:15:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

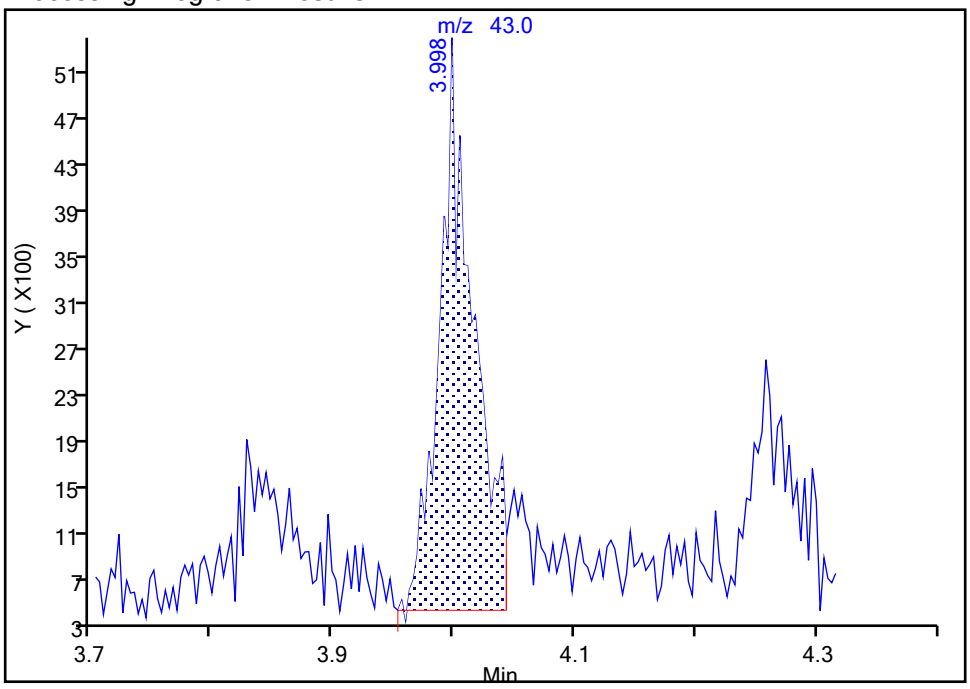
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

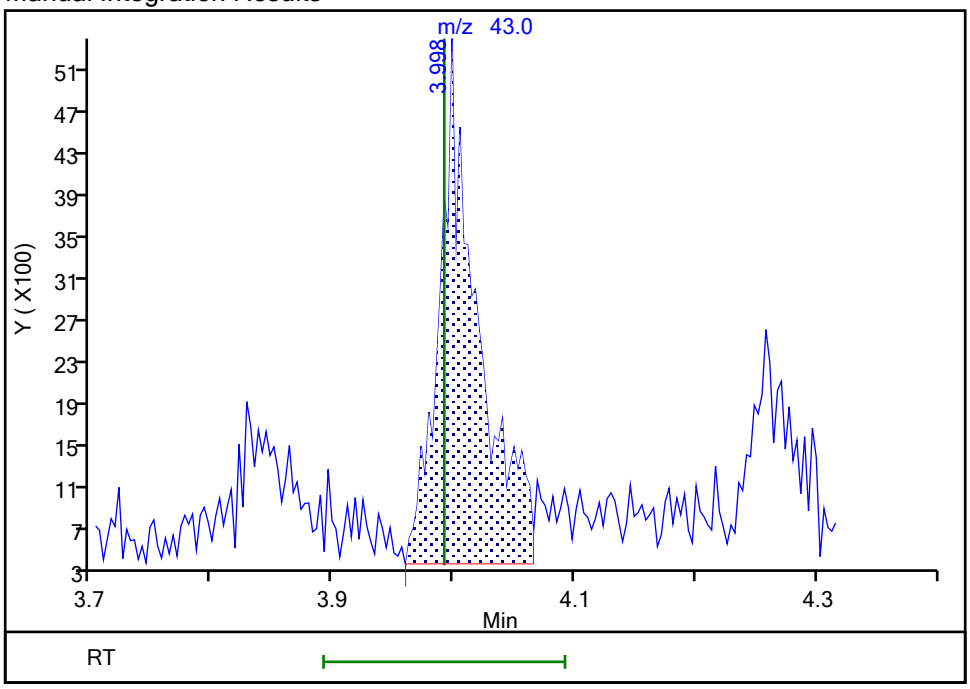
Processing Integration Results

RT: 4.00
Area: 9584
Amount: 1.773217
Amount Units: ug/l



Manual Integration Results

RT: 4.00
Area: 11101
Amount: 2.013523
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:16:13
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

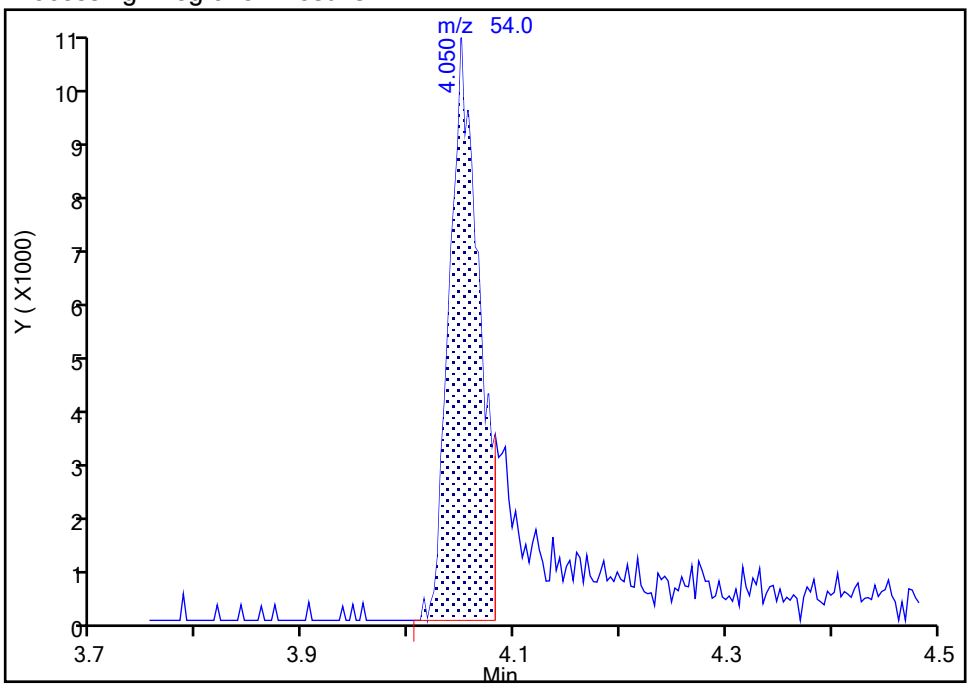
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

42 Propionitrile, CAS: 107-12-0

Signal: 1

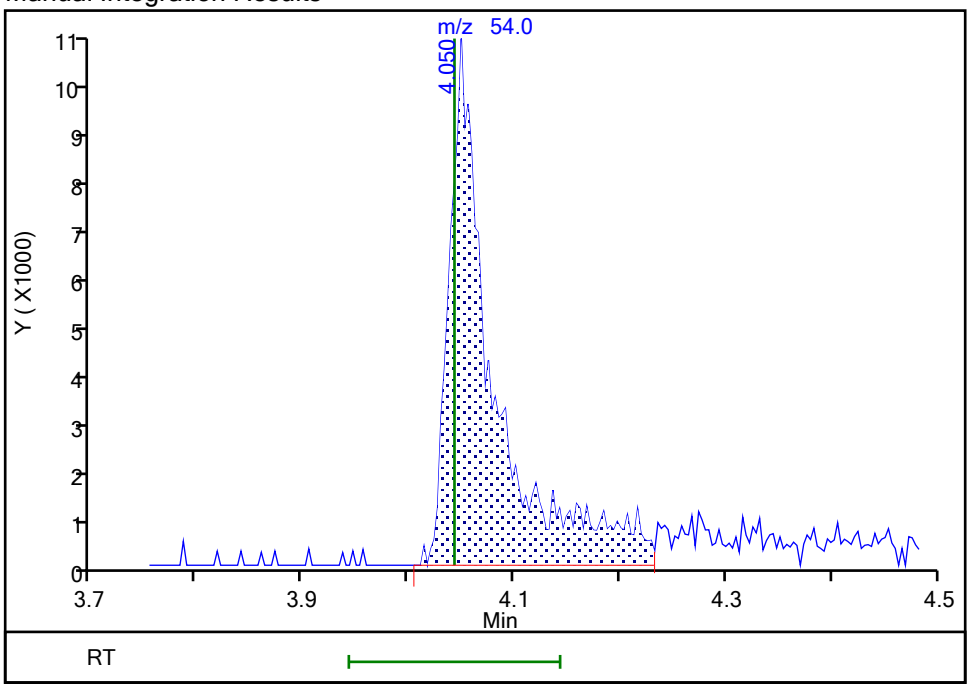
Processing Integration Results

RT: 4.05
Area: 20359
Amount: 13.378276
Amount Units: ug/l



Manual Integration Results

RT: 4.05
Area: 30368
Amount: 19.059952
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:17:19
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

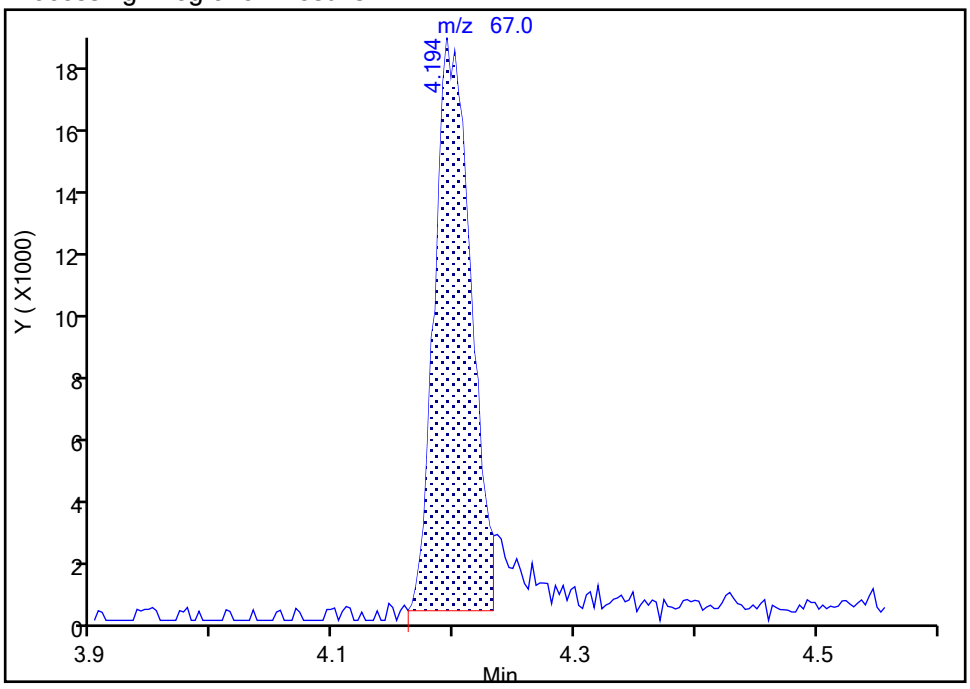
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

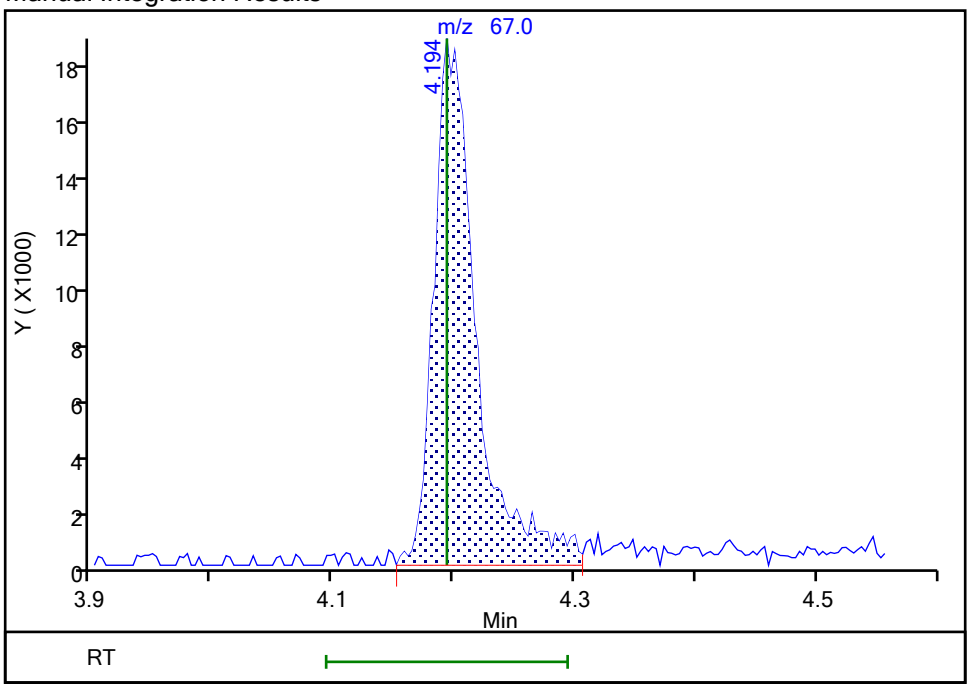
Processing Integration Results

RT: 4.19
Area: 37806
Amount: 8.520000
Amount Units: ug/l



Manual Integration Results

RT: 4.19
Area: 45063
Amount: 9.923595
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:18:01
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

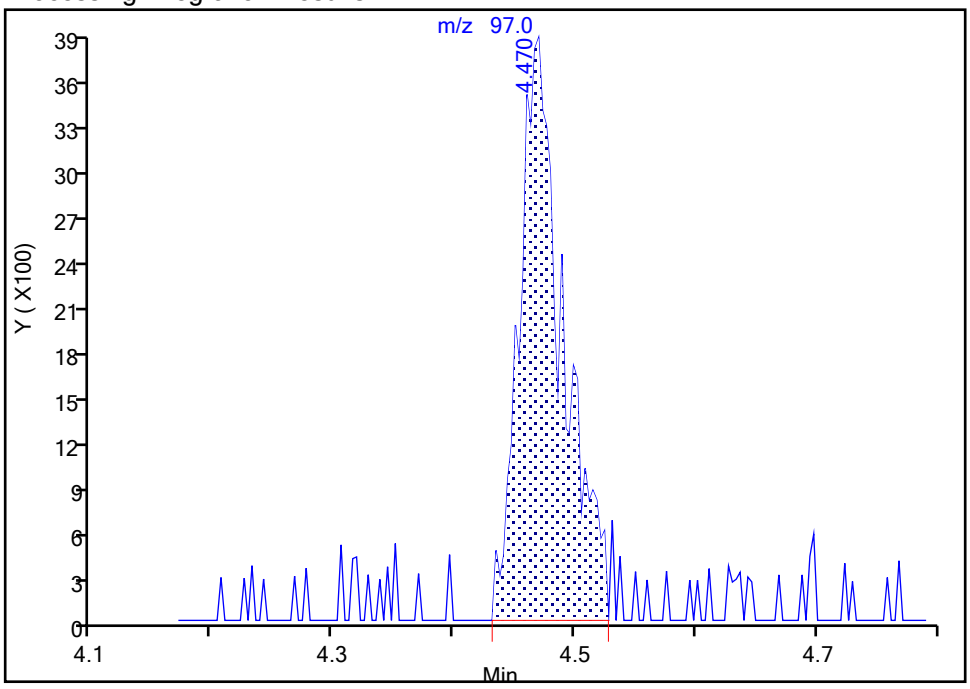
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

49 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

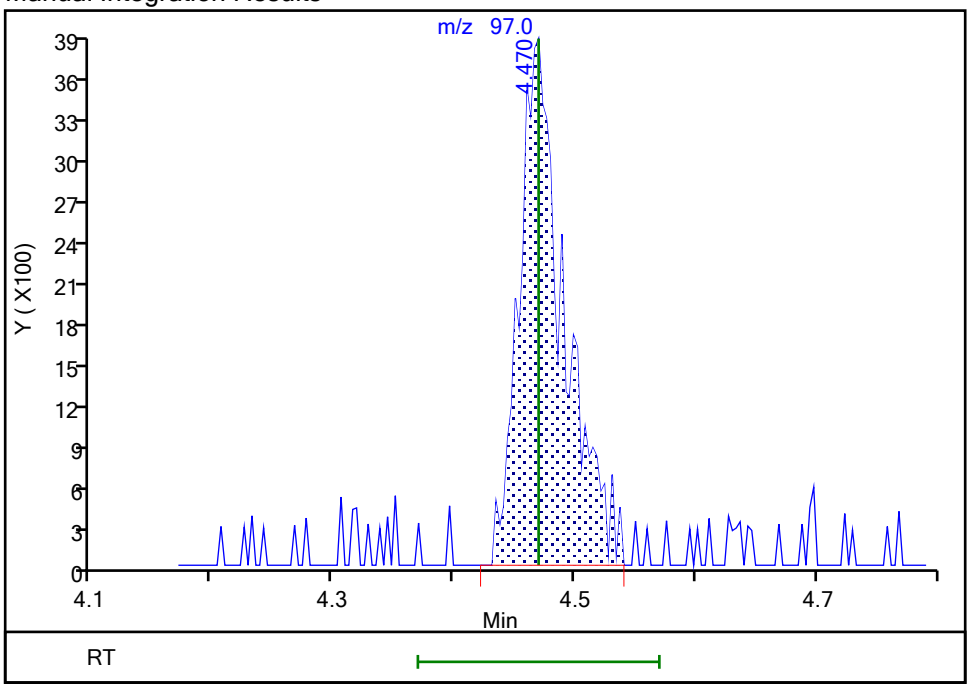
Processing Integration Results

RT: 4.47
Area: 9512
Amount: 0.972997
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 9719
Amount: 0.991173
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:18:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

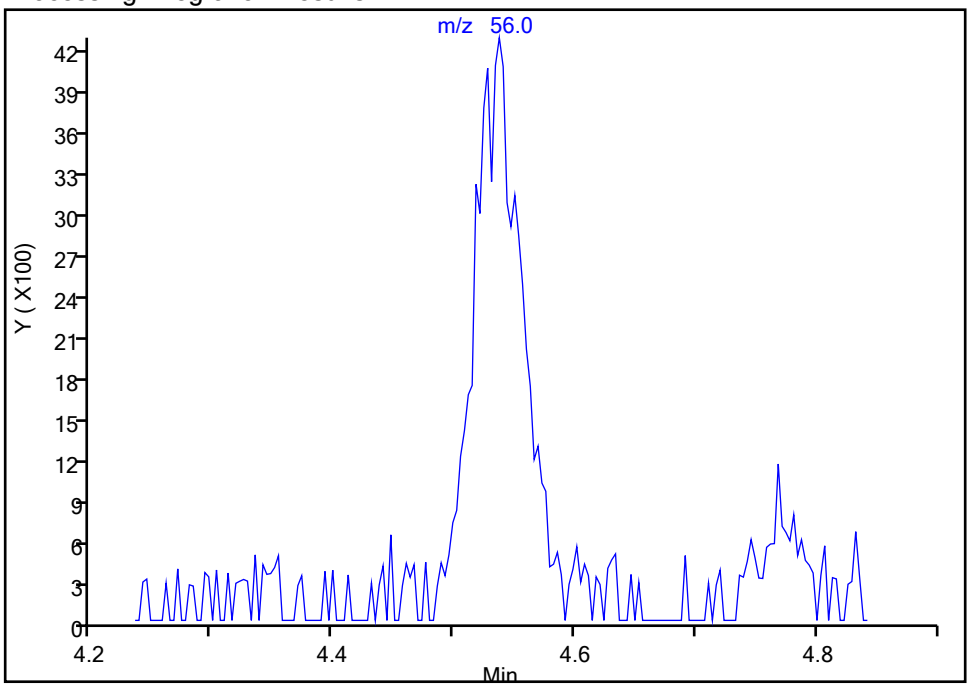
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

50 Cyclohexane, CAS: 110-82-7

Signal: 1

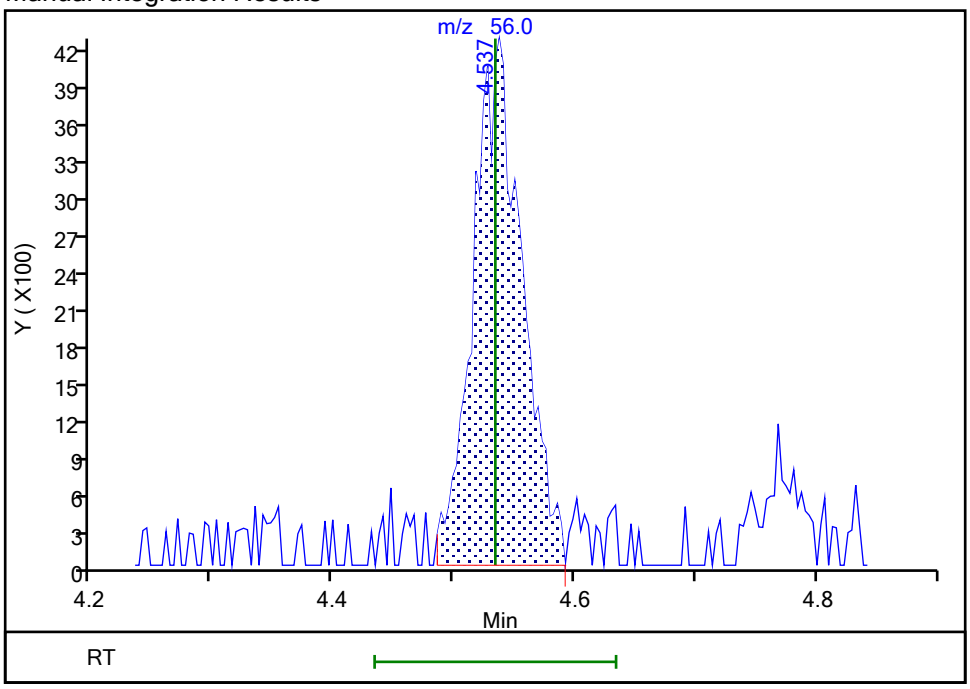
Not Detected
Expected RT: 4.53

Processing Integration Results



Manual Integration Results

RT: 4.54
Area: 11988
Amount: 1.065347
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:18:37
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

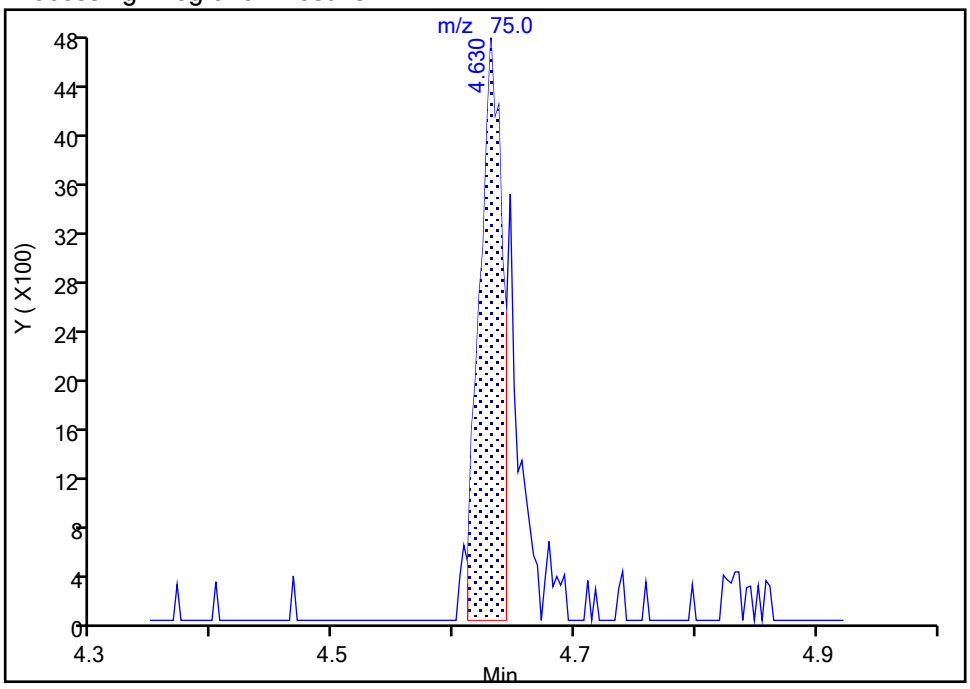
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

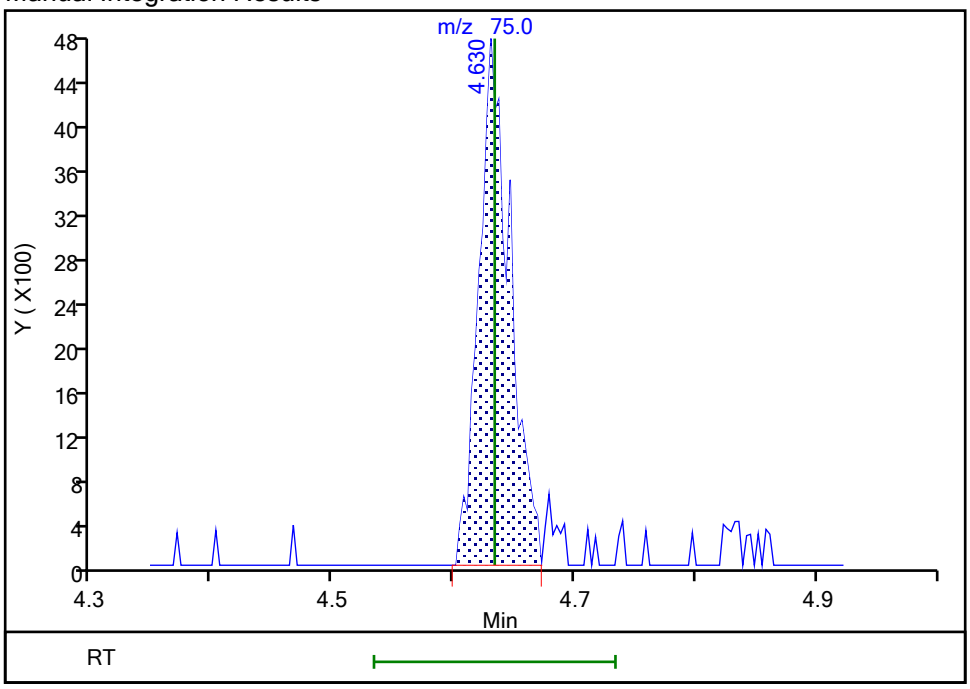
Processing Integration Results

RT: 4.63
Area: 6244
Amount: 0.710747
Amount Units: ug/l



Manual Integration Results

RT: 4.63
Area: 8505
Amount: 0.933782
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:18:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

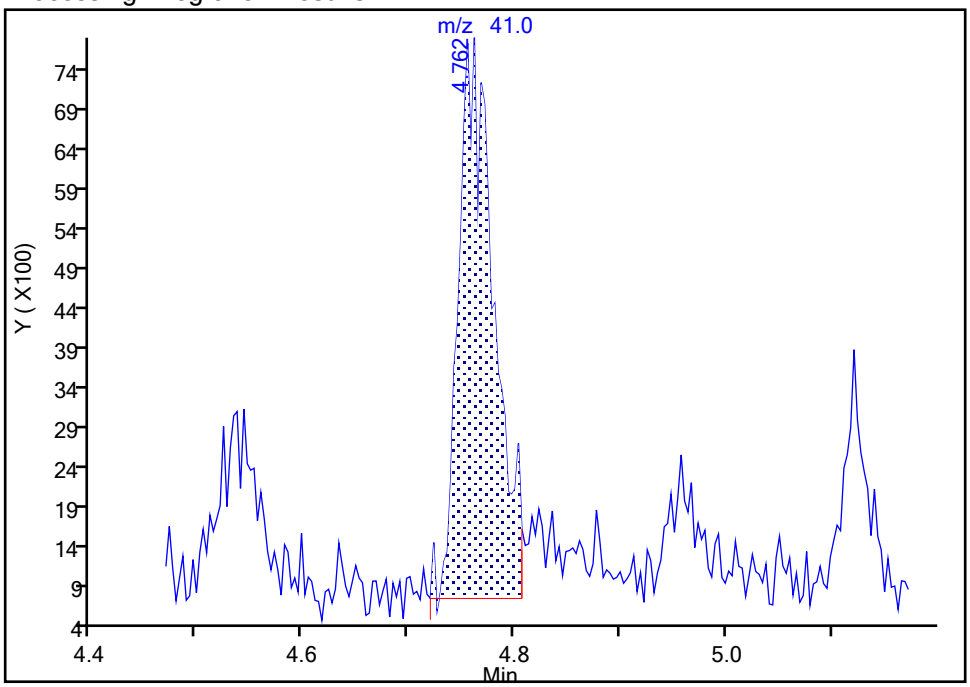
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

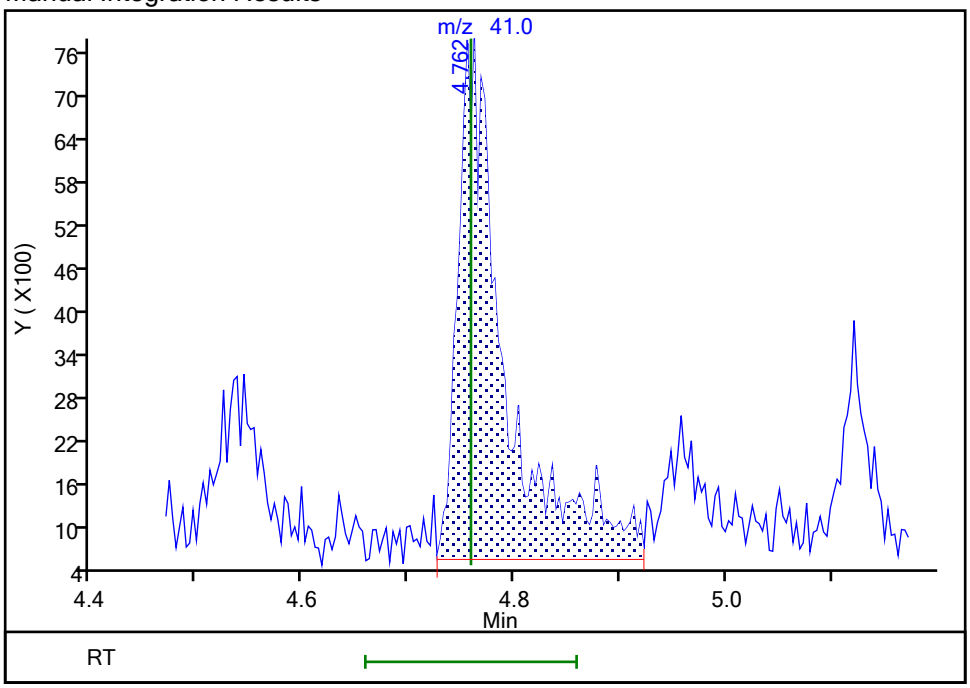
Processing Integration Results

RT: 4.76
Area: 16173
Amount: 36.261861
Amount Units: ug/l



Manual Integration Results

RT: 4.76
Area: 22000
Amount: 47.551697
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:20:56
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

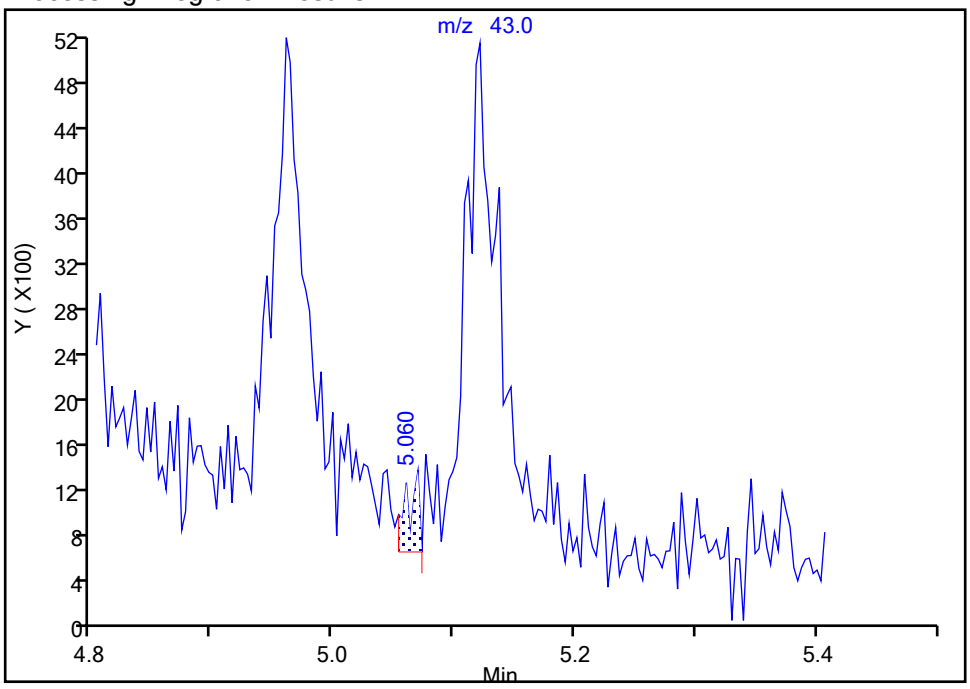
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

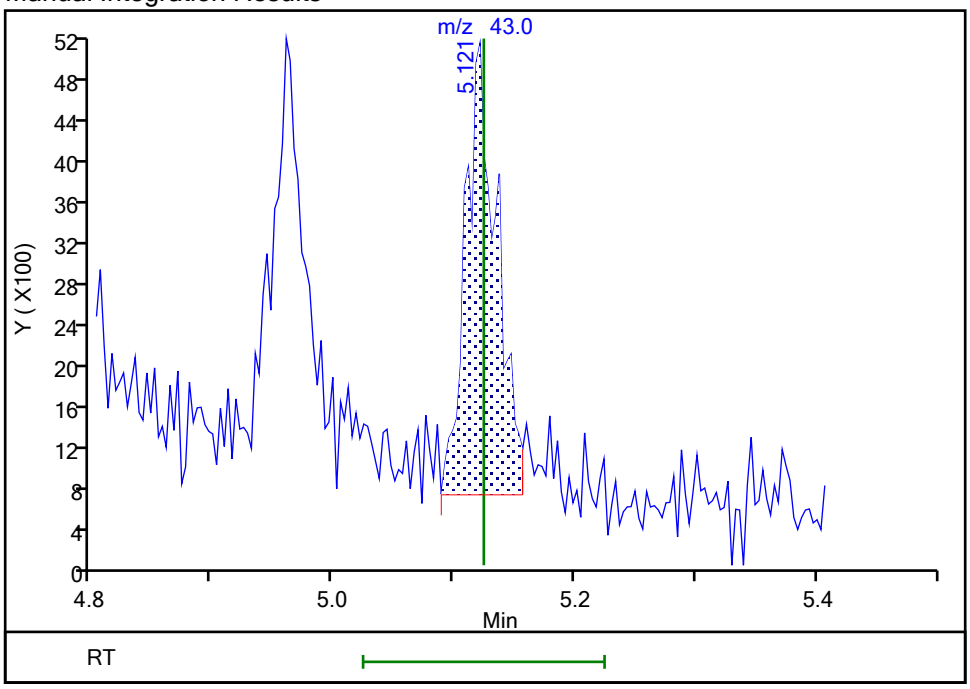
Processing Integration Results

RT: 5.06
Area: 496
Amount: 0.095960
Amount Units: ug/l



Manual Integration Results

RT: 5.12
Area: 7868
Amount: 1.127227
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:22:13
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

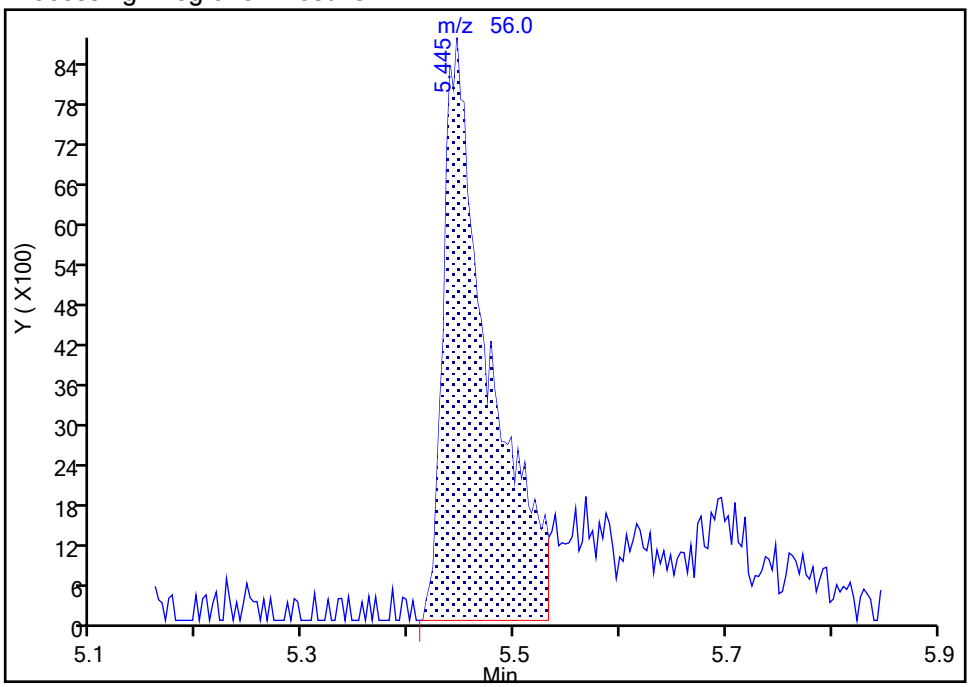
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

61 n-Butanol, CAS: 71-36-3

Signal: 1

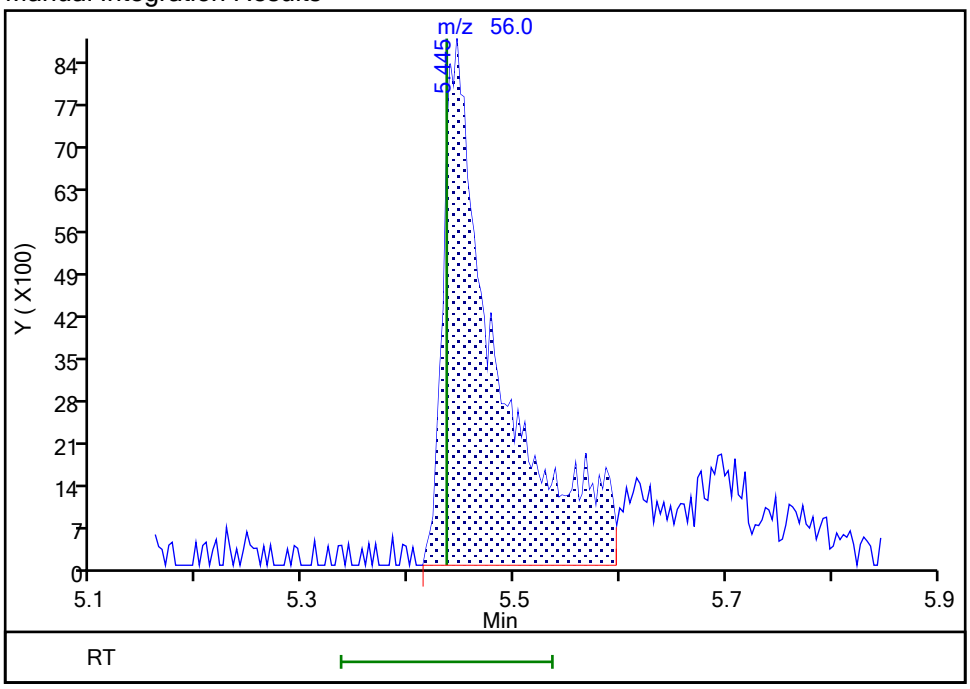
Processing Integration Results

RT: 5.45
Area: 25976
Amount: 69.266229
Amount Units: ug/l



Manual Integration Results

RT: 5.45
Area: 30903
Amount: 77.890170
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:23:30
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

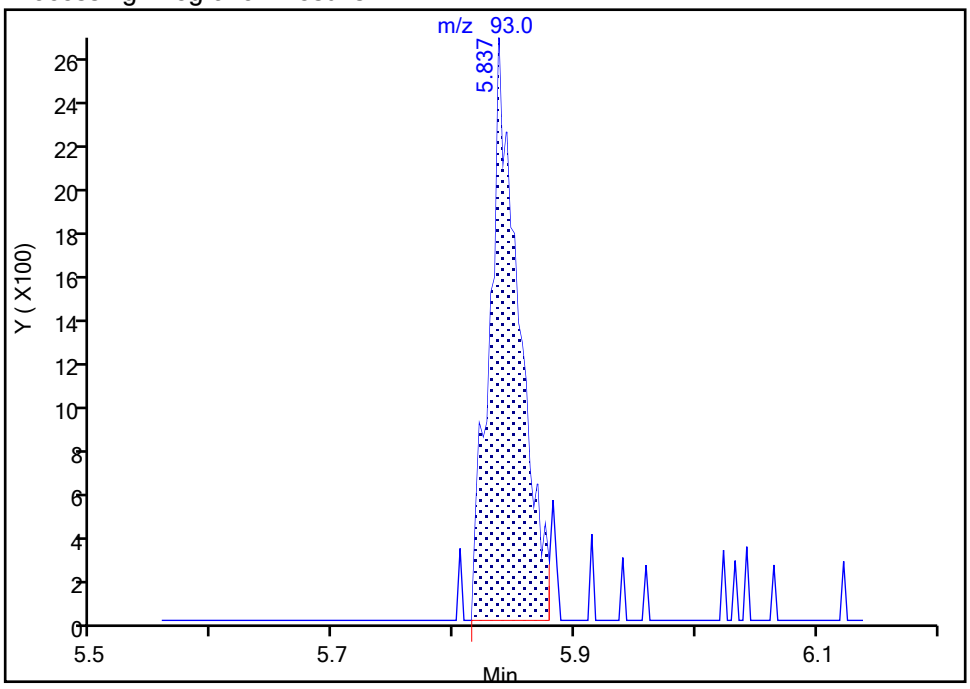
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

67 Dibromomethane, CAS: 74-95-3

Signal: 1

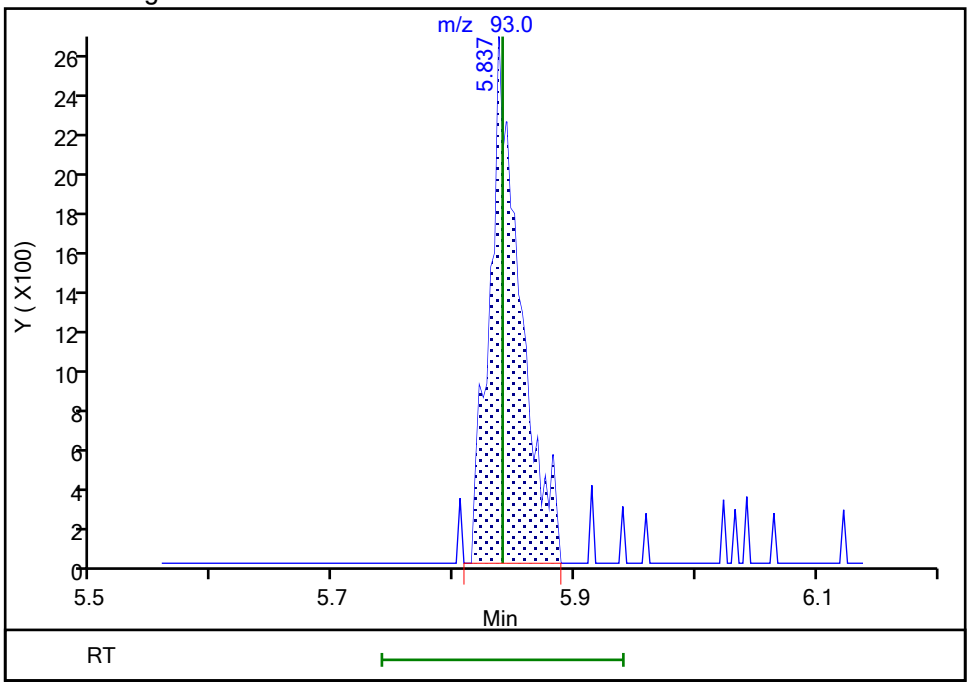
Processing Integration Results

RT: 5.84
Area: 4496
Amount: 0.954892
Amount Units: ug/l



Manual Integration Results

RT: 5.84
Area: 4651
Amount: 0.983188
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:25:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

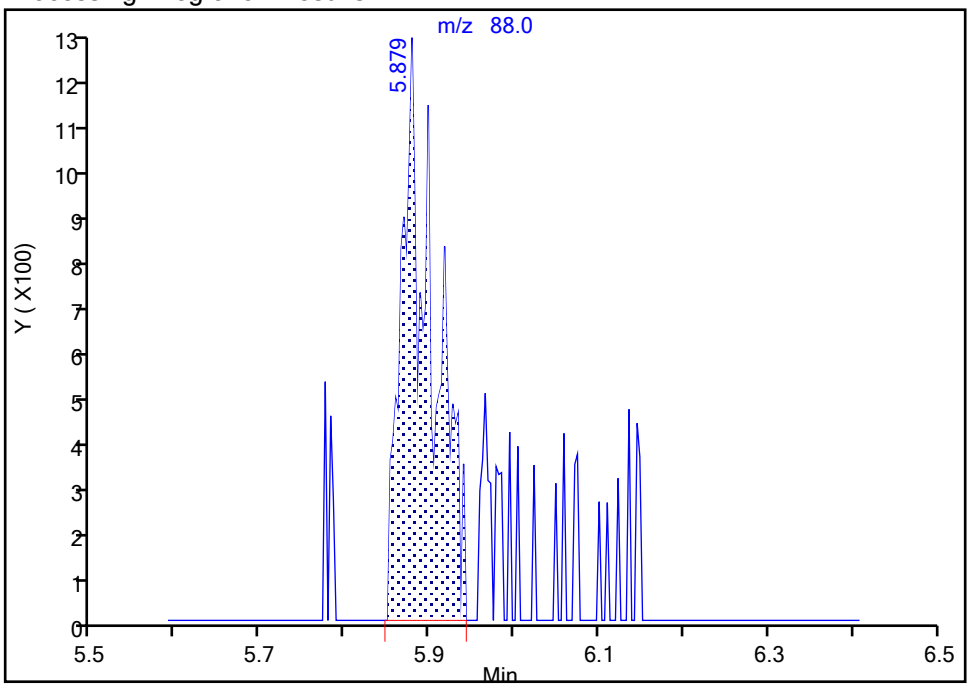
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

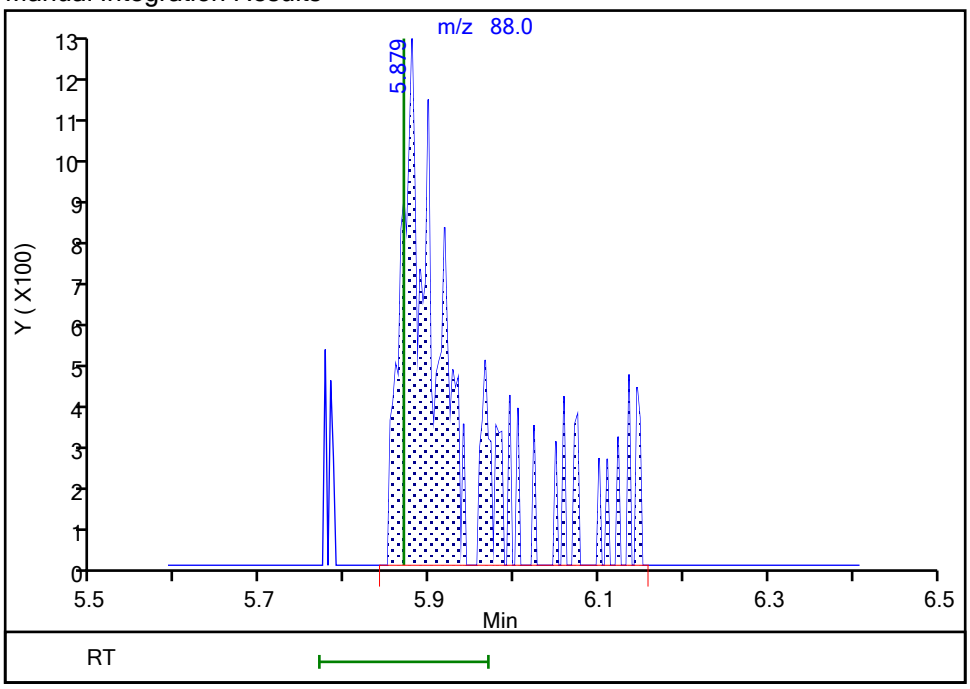
Processing Integration Results

RT: 5.88
Area: 3171
Amount: 48.486891
Amount Units: ug/l



Manual Integration Results

RT: 5.88
Area: 4570
Amount: 38.960249
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:26:40
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

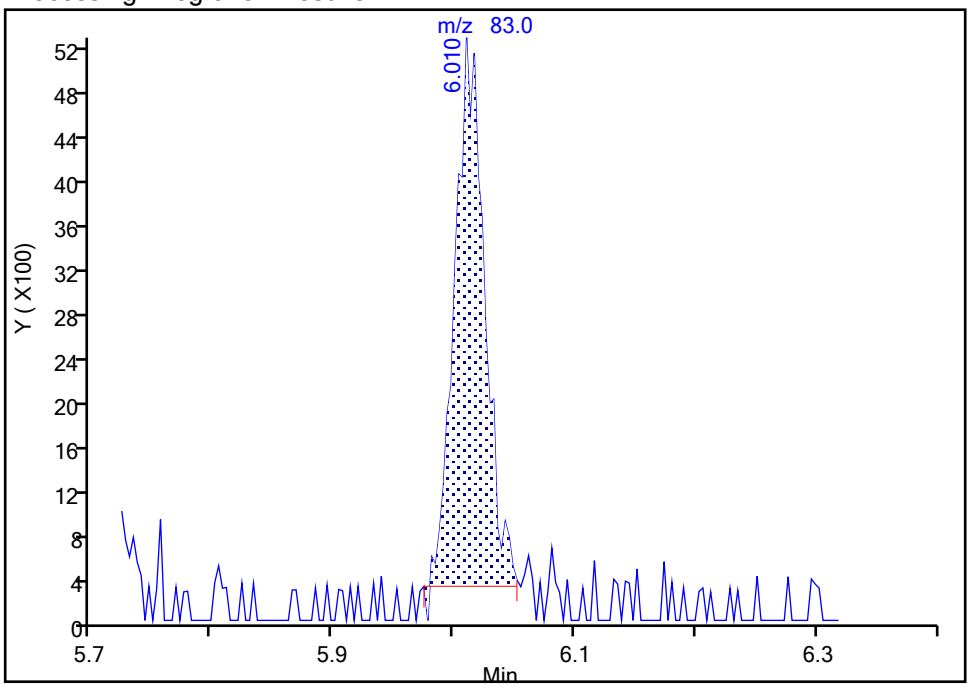
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

70 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

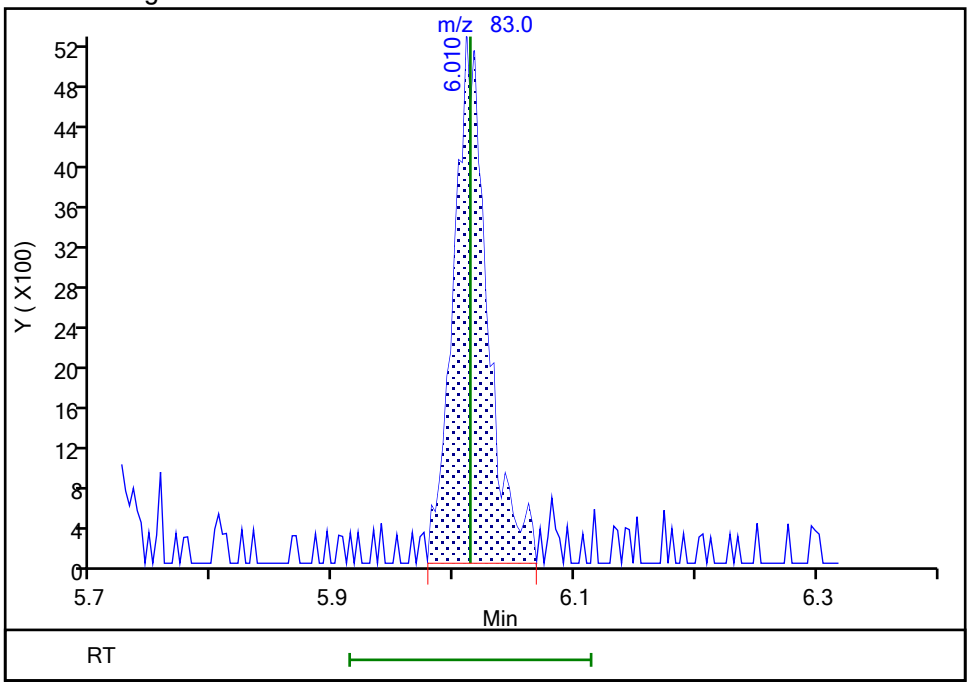
Processing Integration Results

RT: 6.01
Area: 8372
Amount: 0.919805
Amount Units: ug/l



Manual Integration Results

RT: 6.01
Area: 10102
Amount: 1.080536
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:27:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

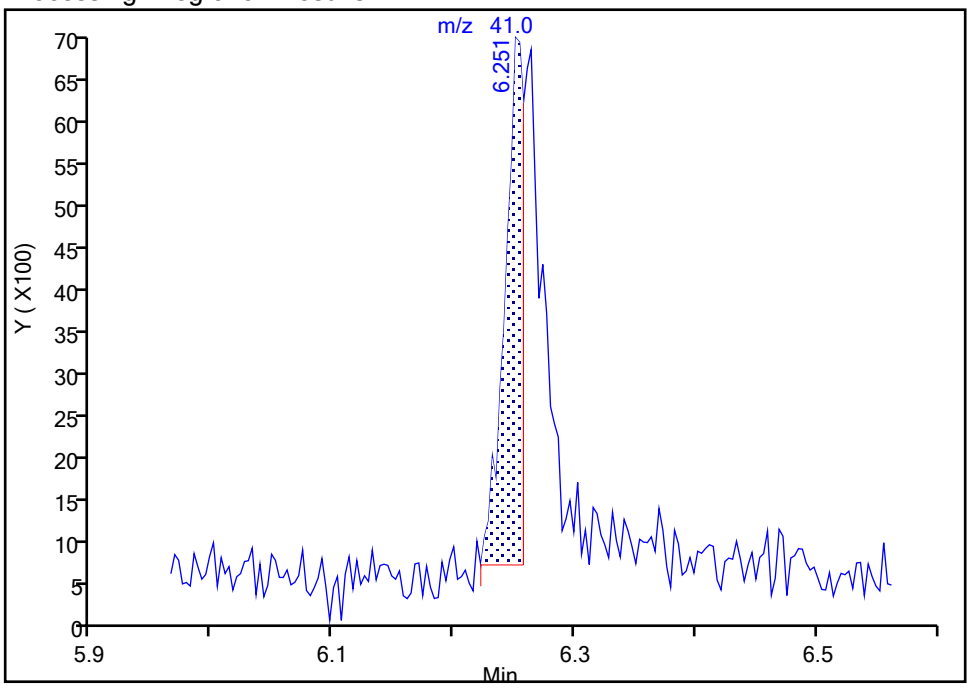
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

71 2-Nitropropane, CAS: 79-46-9

Signal: 1

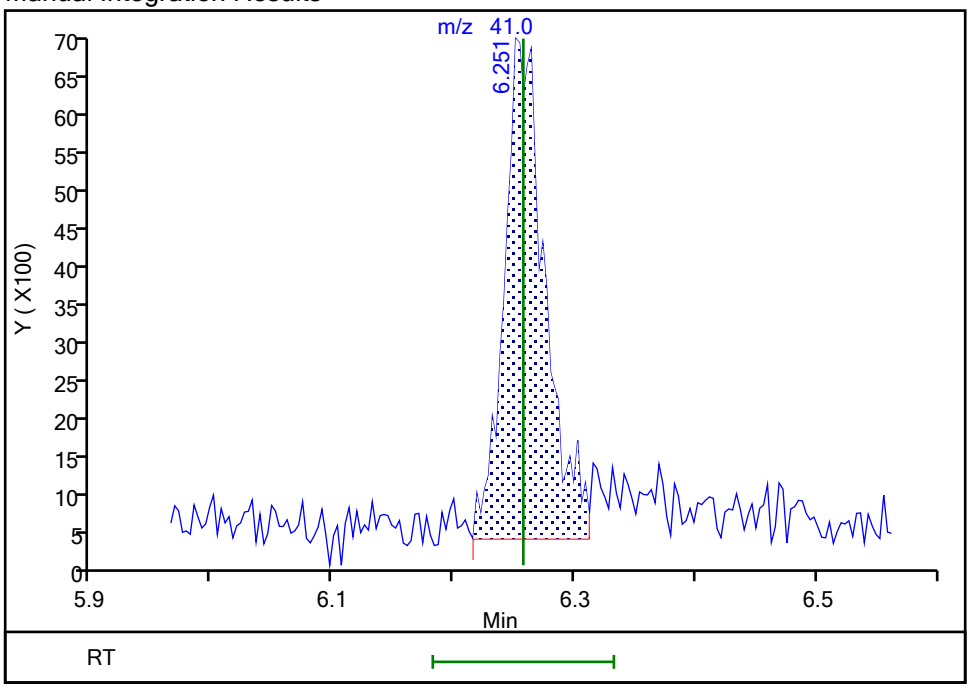
Processing Integration Results

RT: 6.25
Area: 6761
Amount: 4.920664
Amount Units: ug/l



Manual Integration Results

RT: 6.25
Area: 15460
Amount: 4.505331
Amount Units: ug/l



Reviewer: papel, 26-May-2021 09:28:30
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

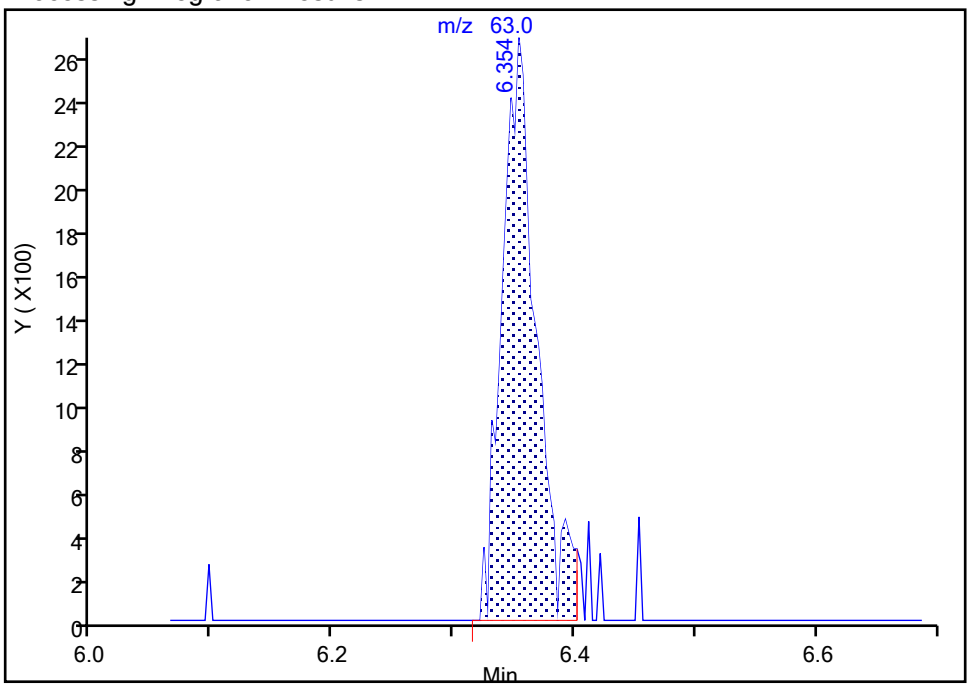
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

72 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

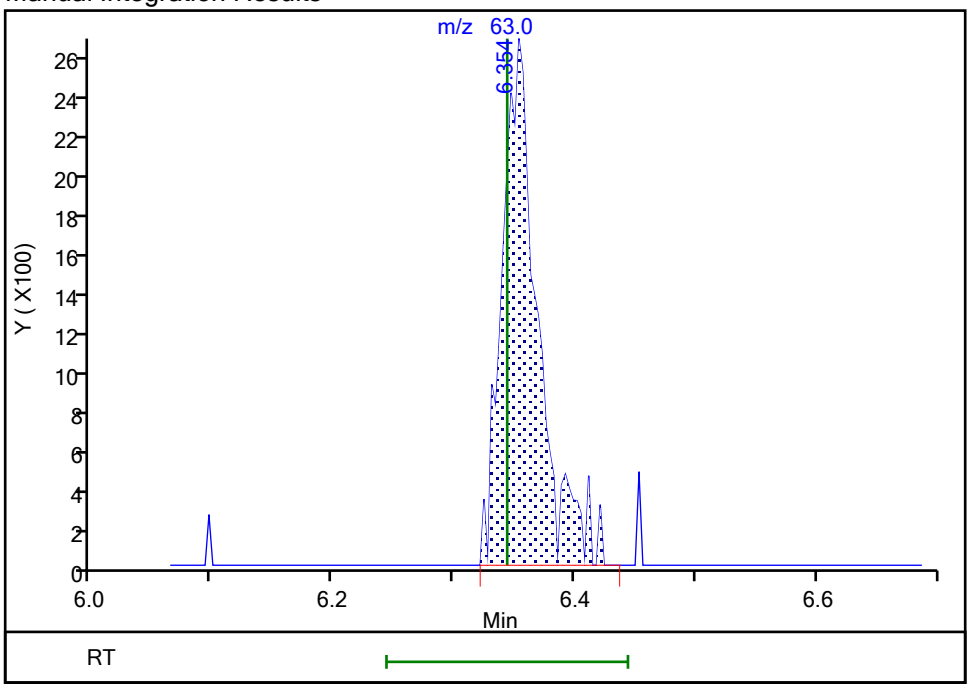
Processing Integration Results

RT: 6.35
Area: 5150
Amount: 0.870082
Amount Units: ug/l



Manual Integration Results

RT: 6.35
Area: 5343
Amount: 0.898504
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:26:39
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

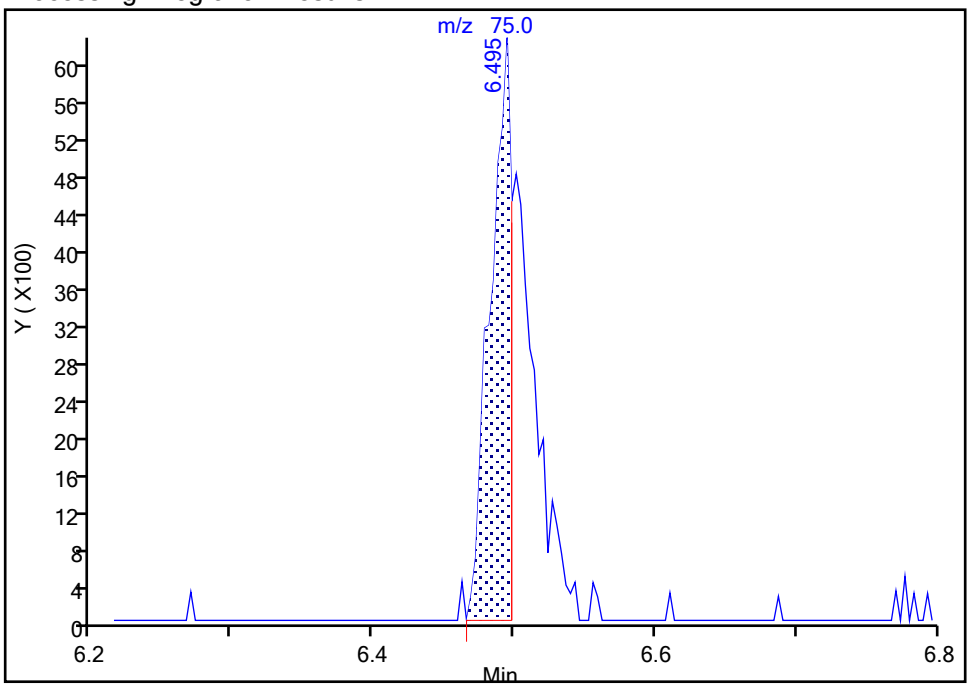
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

74 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

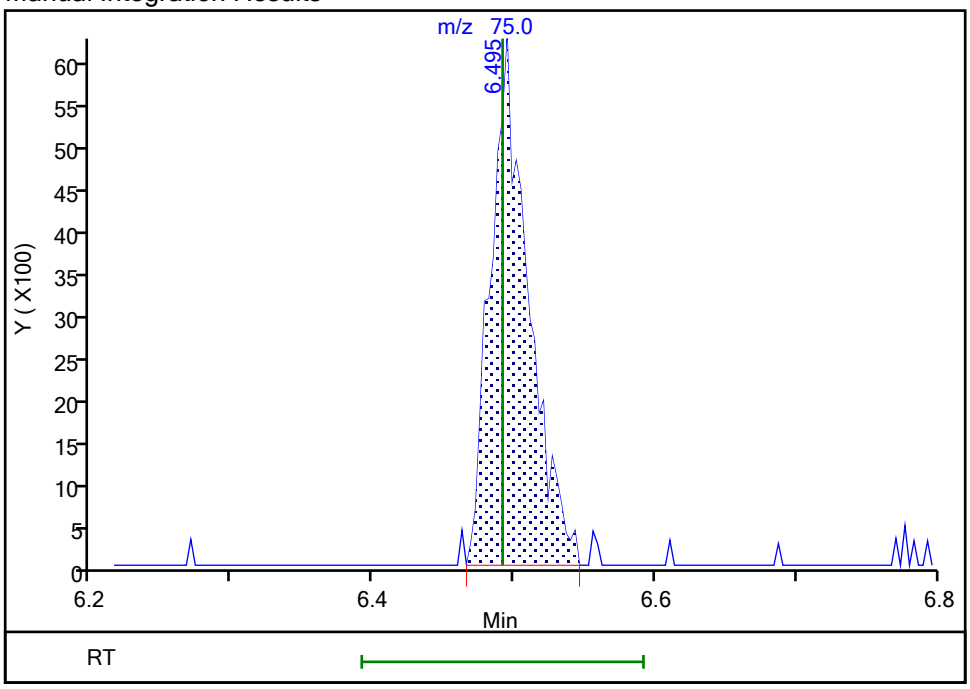
Processing Integration Results

RT: 6.49
Area: 6466
Amount: 0.550830
Amount Units: ug/l



Manual Integration Results

RT: 6.49
Area: 11659
Amount: 0.934177
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:27:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

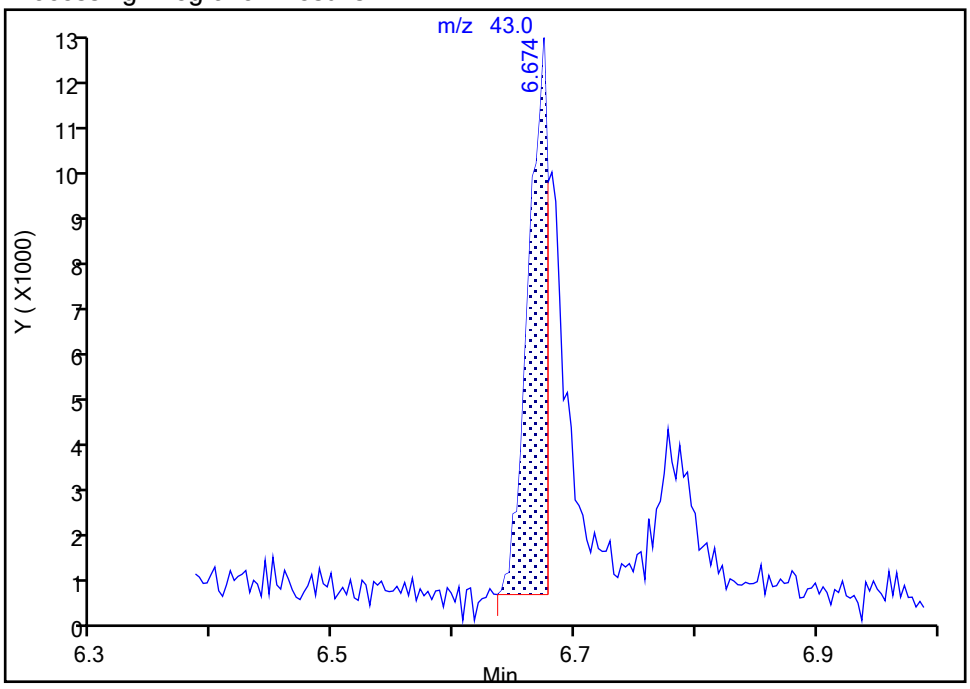
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

76 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

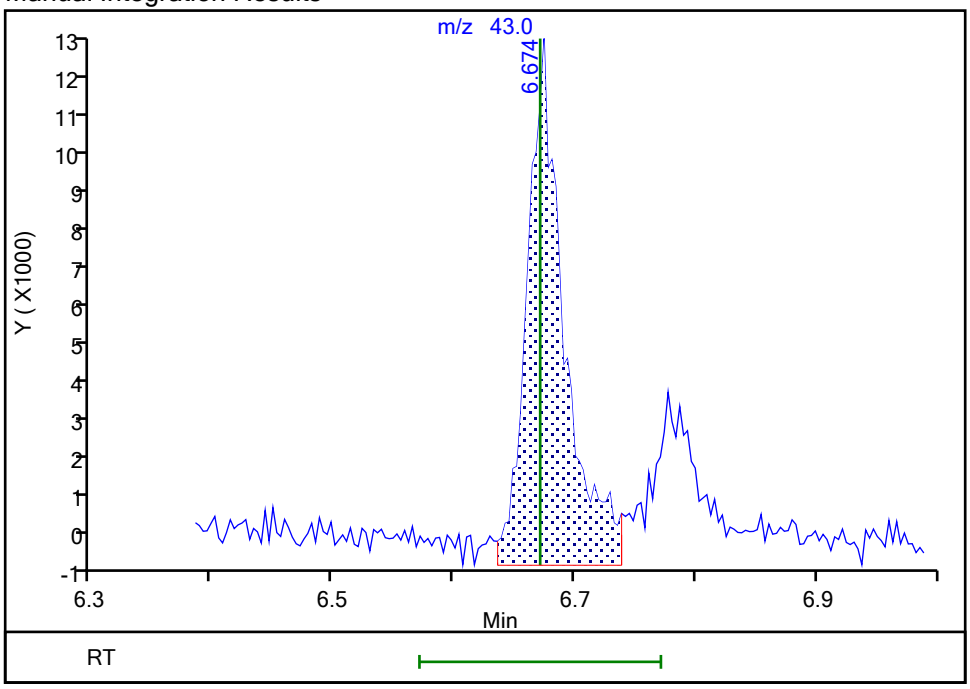
Processing Integration Results

RT: 6.67
Area: 12799
Amount: 2.018135
Amount Units: ug/l



Manual Integration Results

RT: 6.67
Area: 25658
Amount: 2.083503
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:53:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

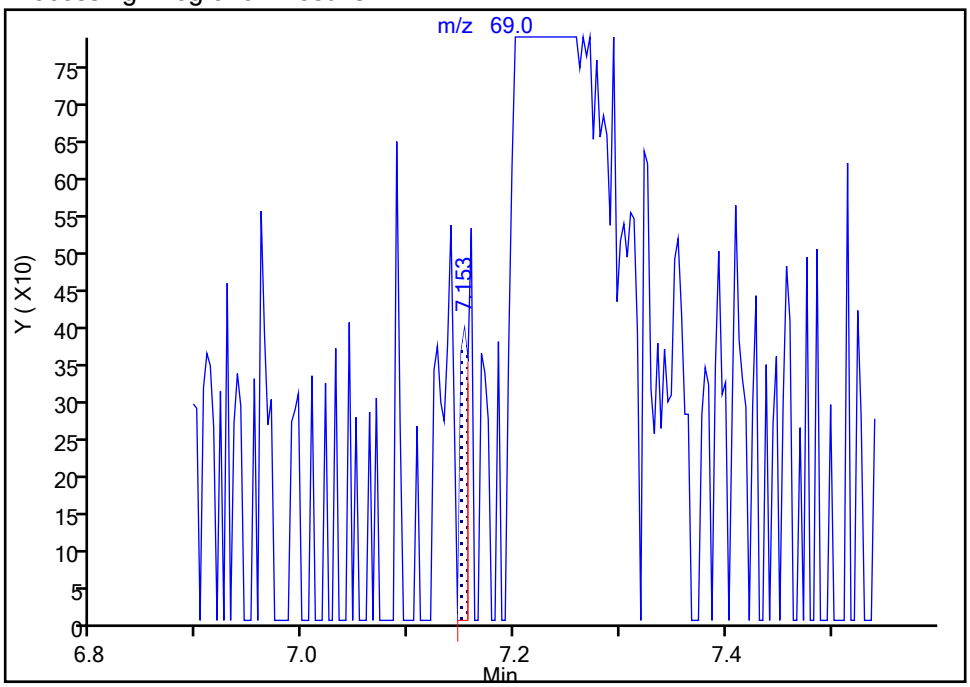
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

80 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

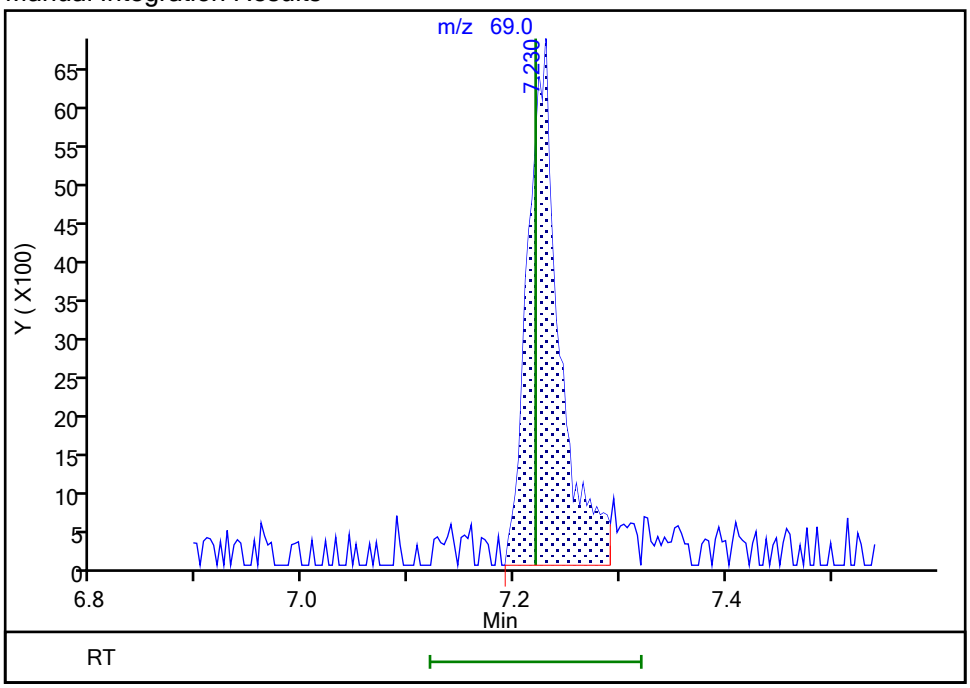
RT: 7.15
Area: 213
Amount: 0.956291
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 7.23
Area: 14223
Amount: 1.034851
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:28:21
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

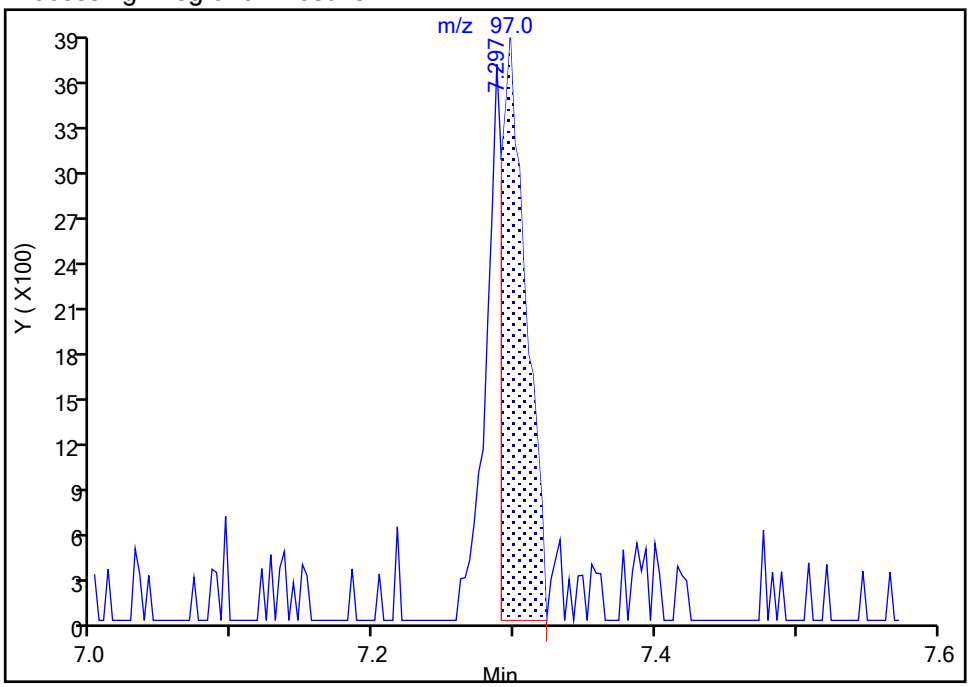
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

81 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

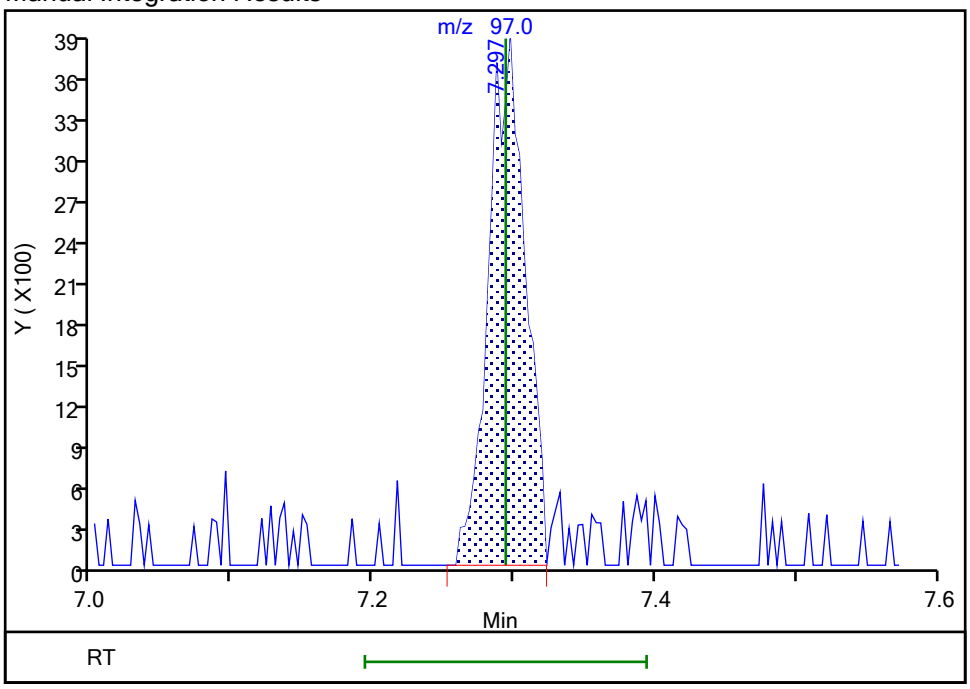
Processing Integration Results

RT: 7.30
Area: 4639
Amount: 0.682617
Amount Units: ug/l



Manual Integration Results

RT: 7.30
Area: 6963
Amount: 0.976864
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:28:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

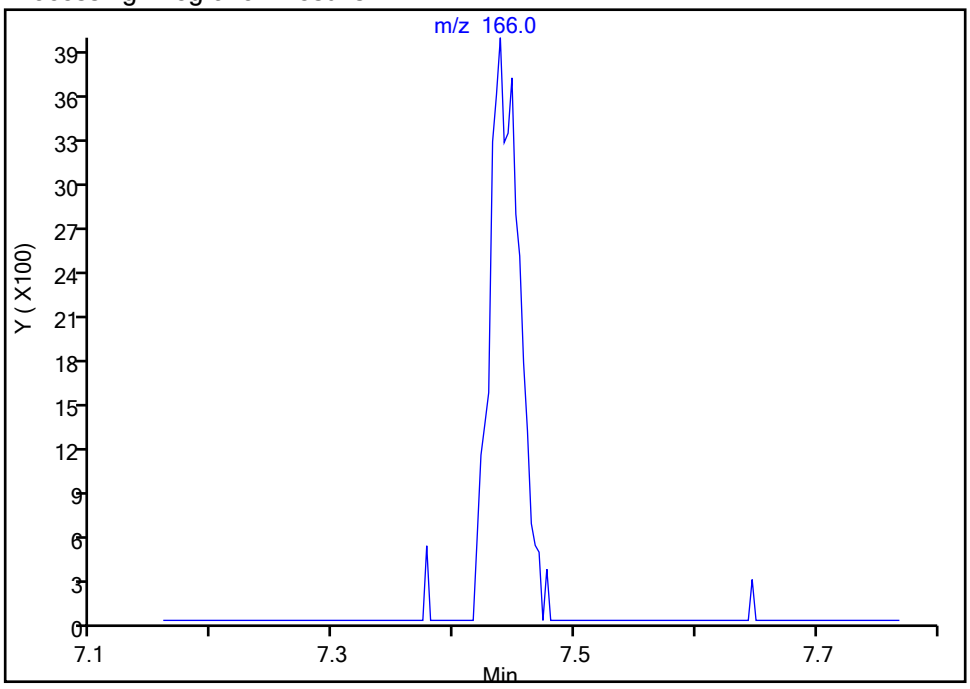
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

84 Tetrachloroethene, CAS: 127-18-4

Signal: 1

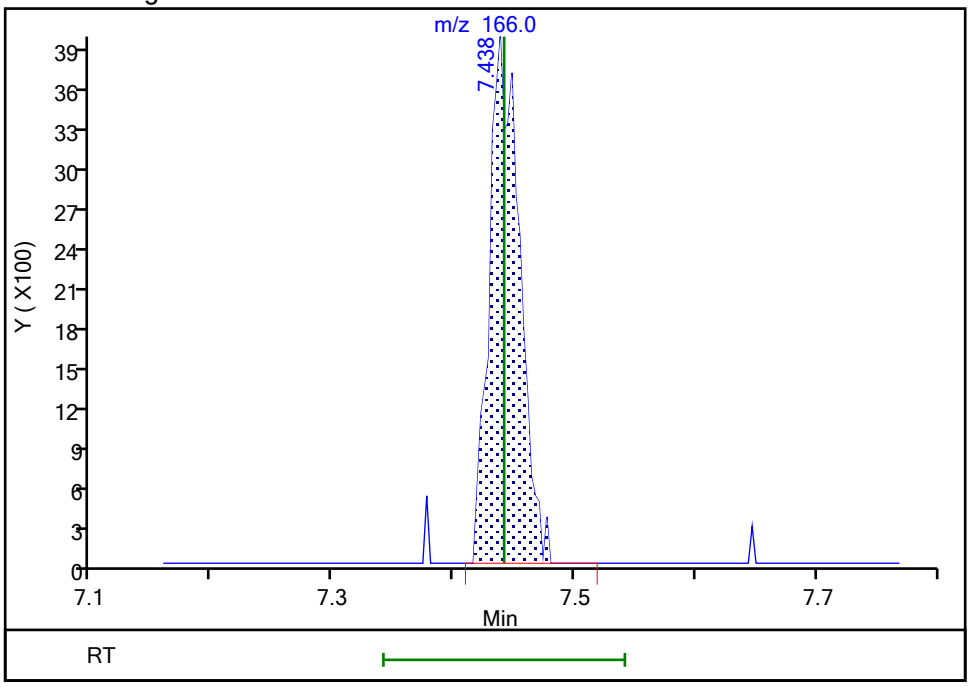
Not Detected
Expected RT: 7.44

Processing Integration Results



Manual Integration Results

RT: 7.44
Area: 6956
Amount: 0.988585
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:28:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

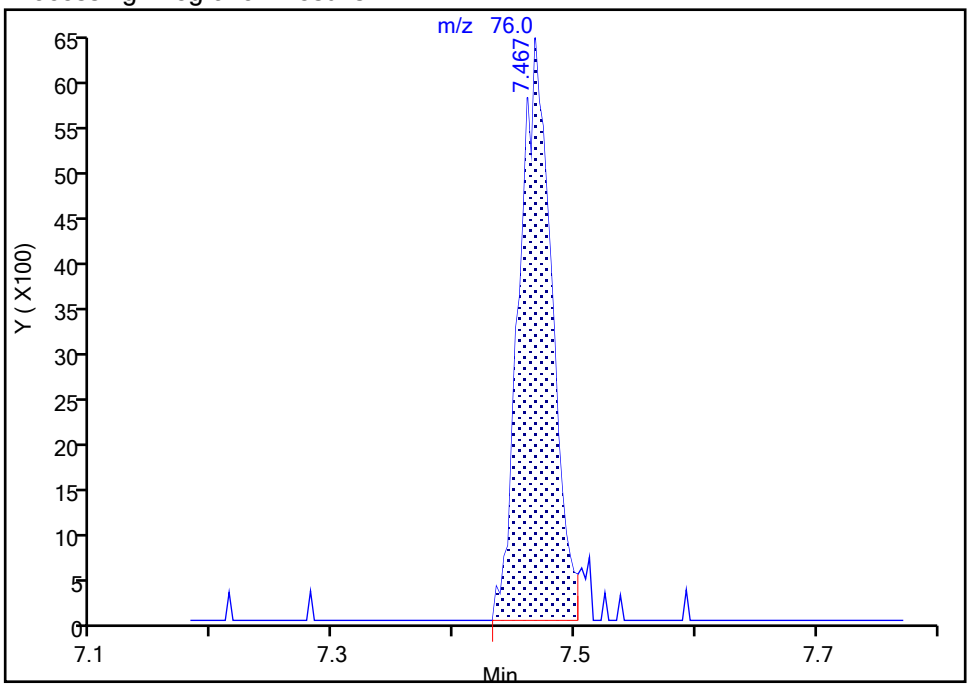
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

85 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

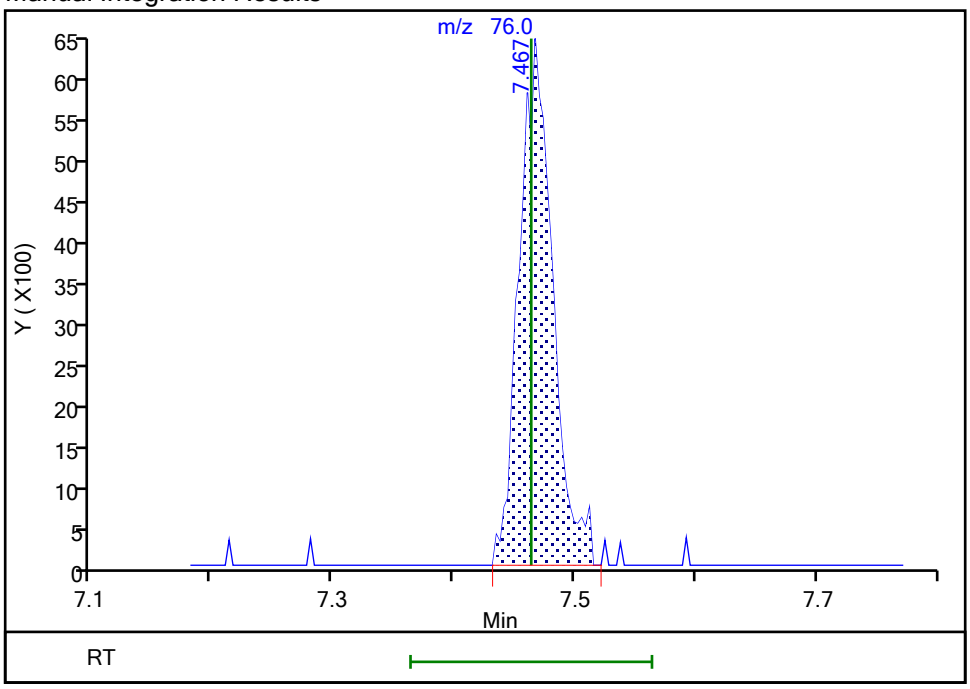
Processing Integration Results

RT: 7.47
Area: 11981
Amount: 0.980115
Amount Units: ug/l



Manual Integration Results

RT: 7.47
Area: 12315
Amount: 1.003521
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:28:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

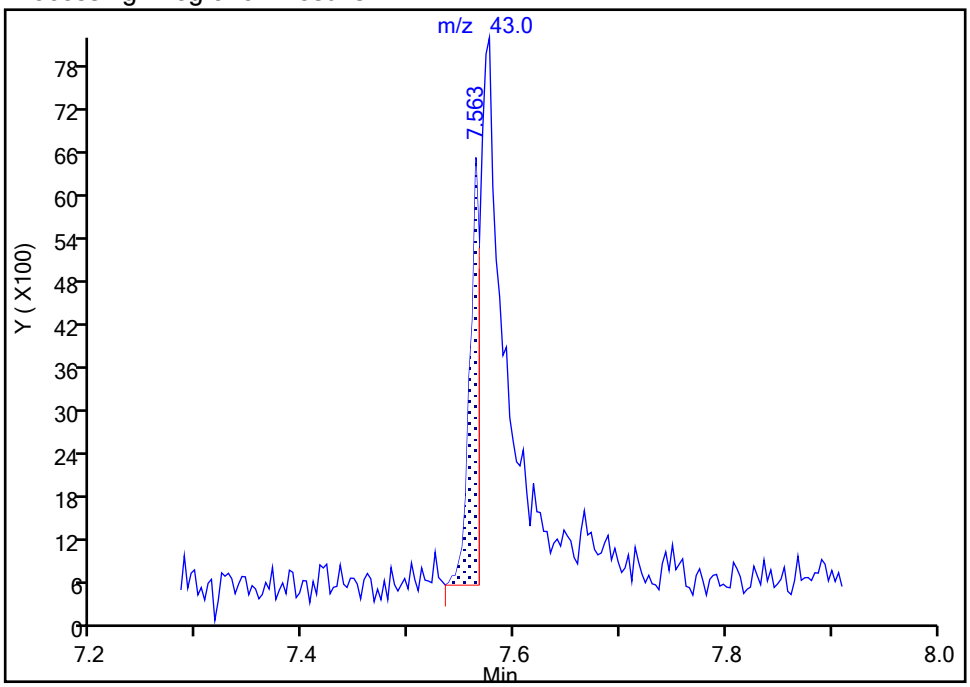
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

88 2-Hexanone, CAS: 591-78-6

Signal: 1

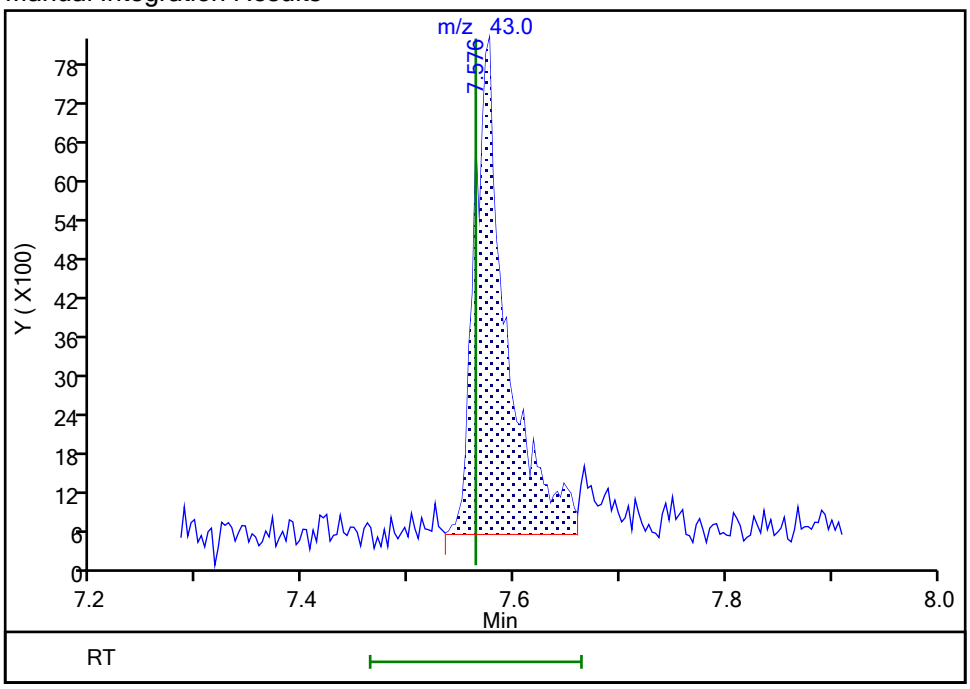
Processing Integration Results

RT: 7.56
Area: 3815
Amount: 2.001762
Amount Units: ug/l



Manual Integration Results

RT: 7.58
Area: 16297
Amount: 1.770887
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:29:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

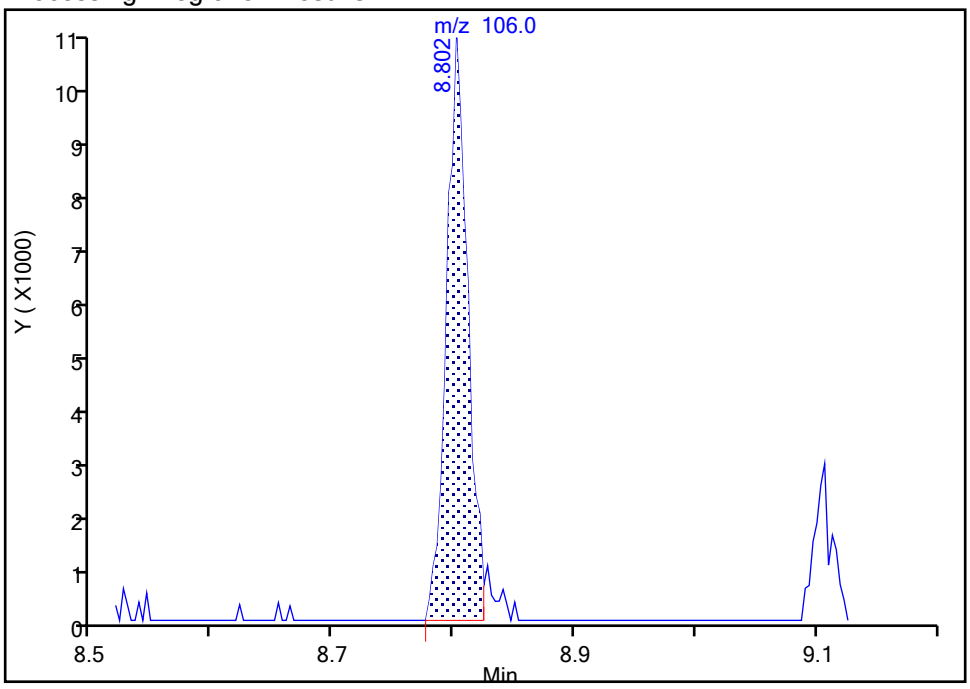
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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

Signal: 1

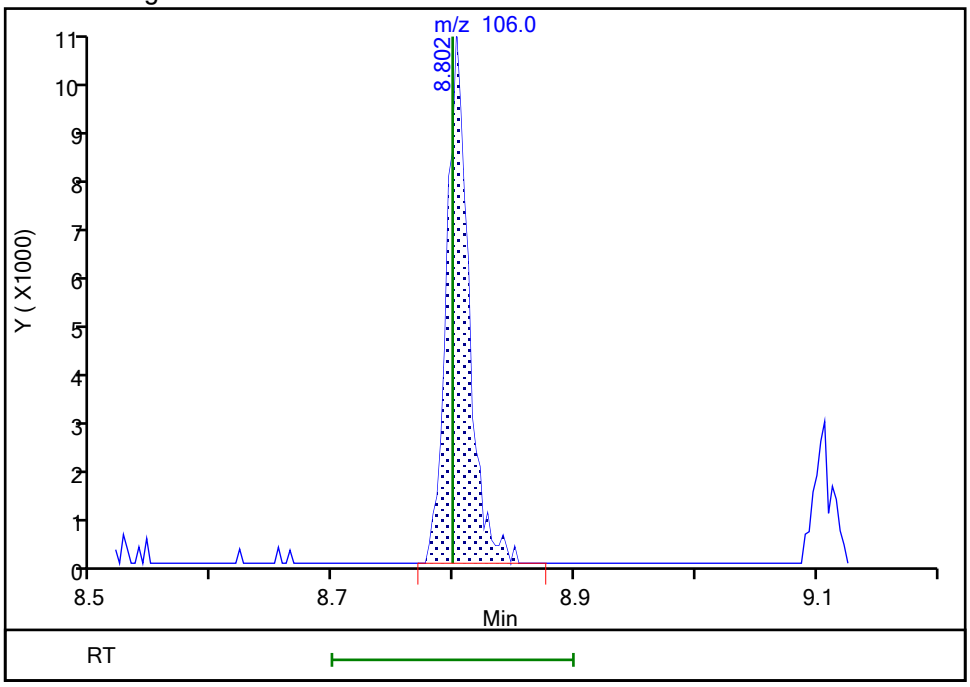
Processing Integration Results

RT: 8.80
Area: 12279
Amount: 0.953595
Amount Units: ug/l



Manual Integration Results

RT: 8.80
Area: 12890
Amount: 0.994306
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:30:05
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

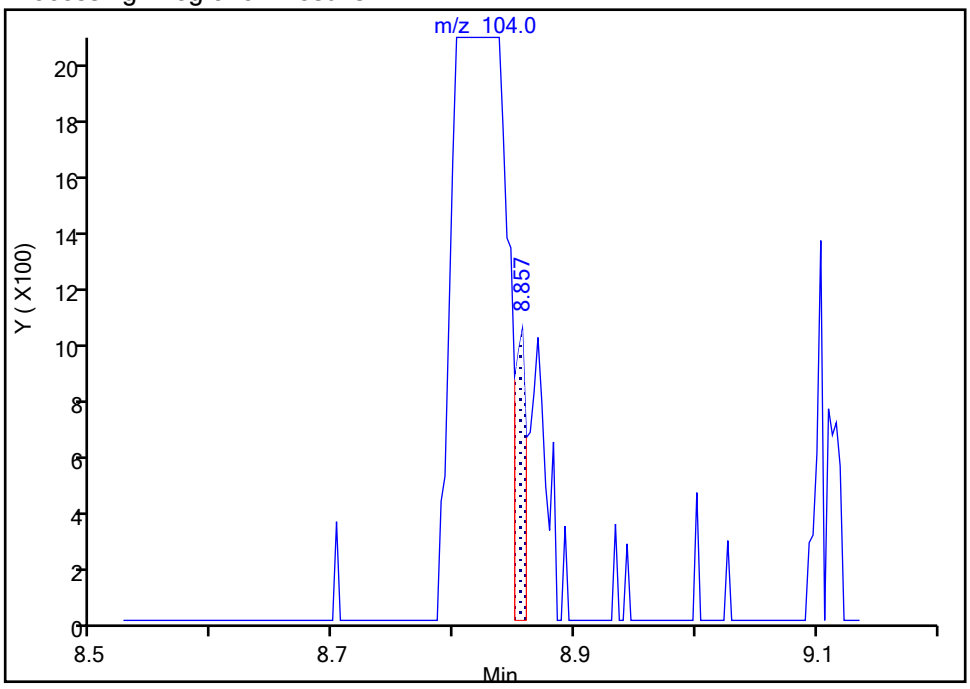
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

99 Styrene, CAS: 100-42-5

Signal: 1

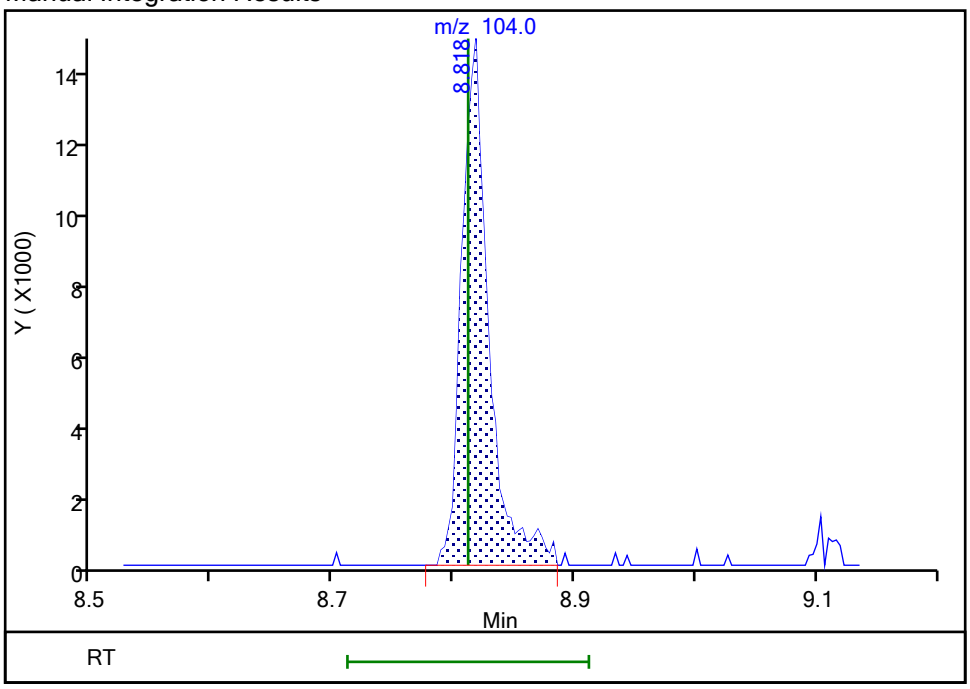
Processing Integration Results

RT: 8.86
Area: 651
Amount: 0.958628
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 21913
Amount: 0.968287
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:30:20
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

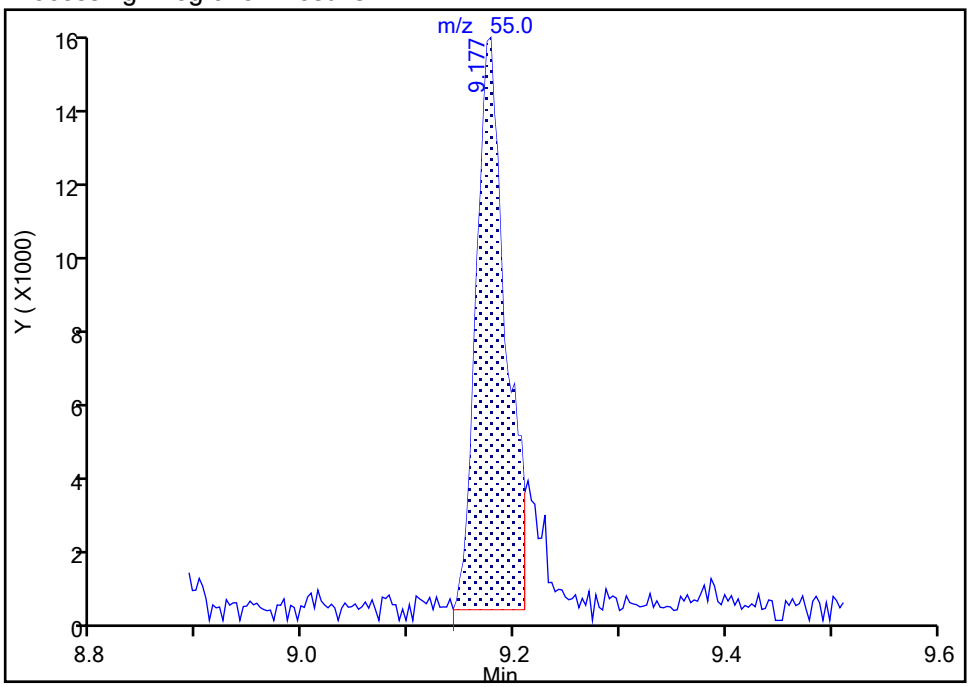
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Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

103 Cyclohexanone, CAS: 108-94-1

Signal: 1

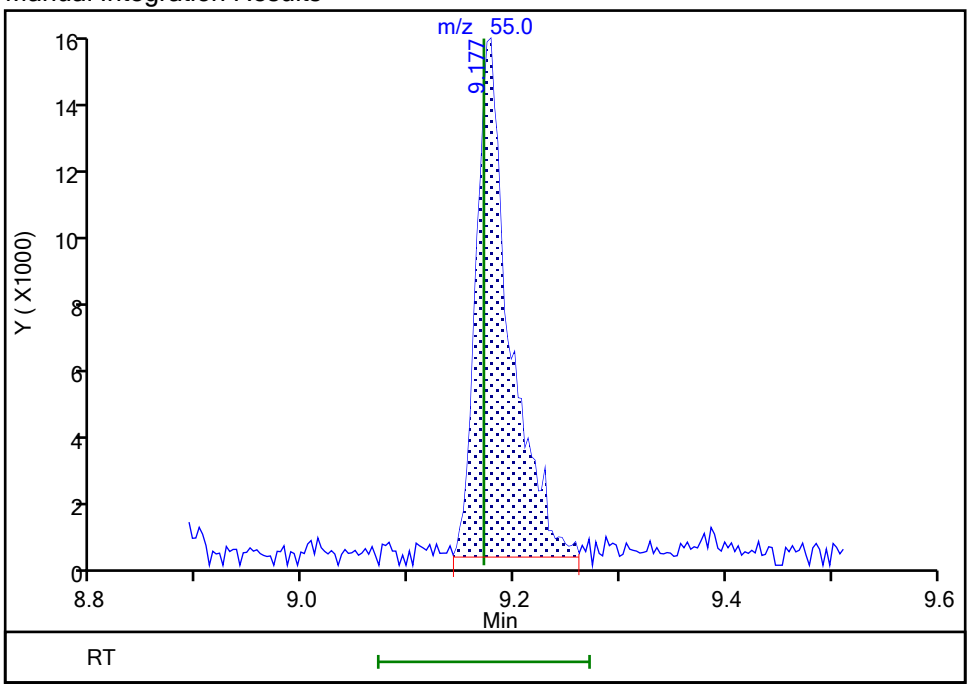
Processing Integration Results

RT: 9.18
Area: 28920
Amount: 46.080732
Amount Units: ug/l



Manual Integration Results

RT: 9.18
Area: 32975
Amount: 51.589553
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:31:10
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

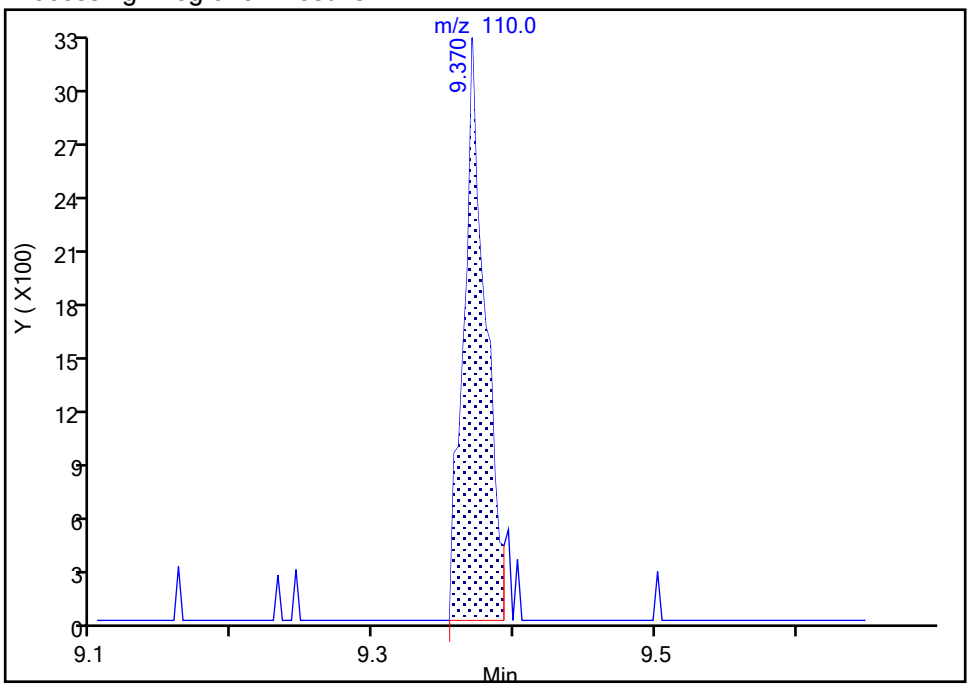
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

107 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

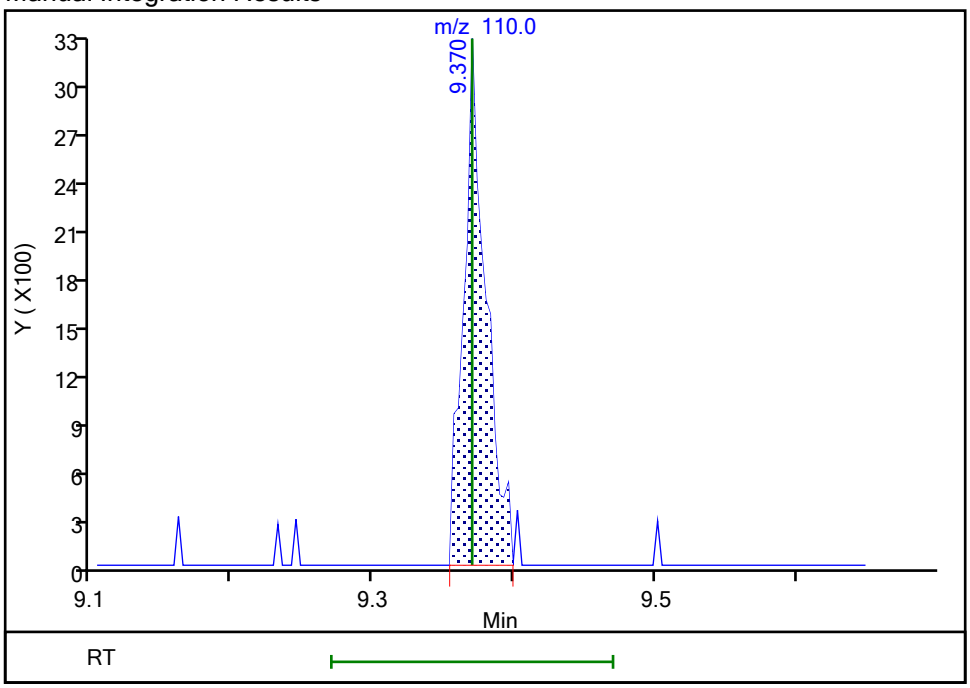
Processing Integration Results

RT: 9.37
Area: 3437
Amount: 0.979441
Amount Units: ug/l



Manual Integration Results

RT: 9.37
Area: 3534
Amount: 1.003122
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:31:48
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

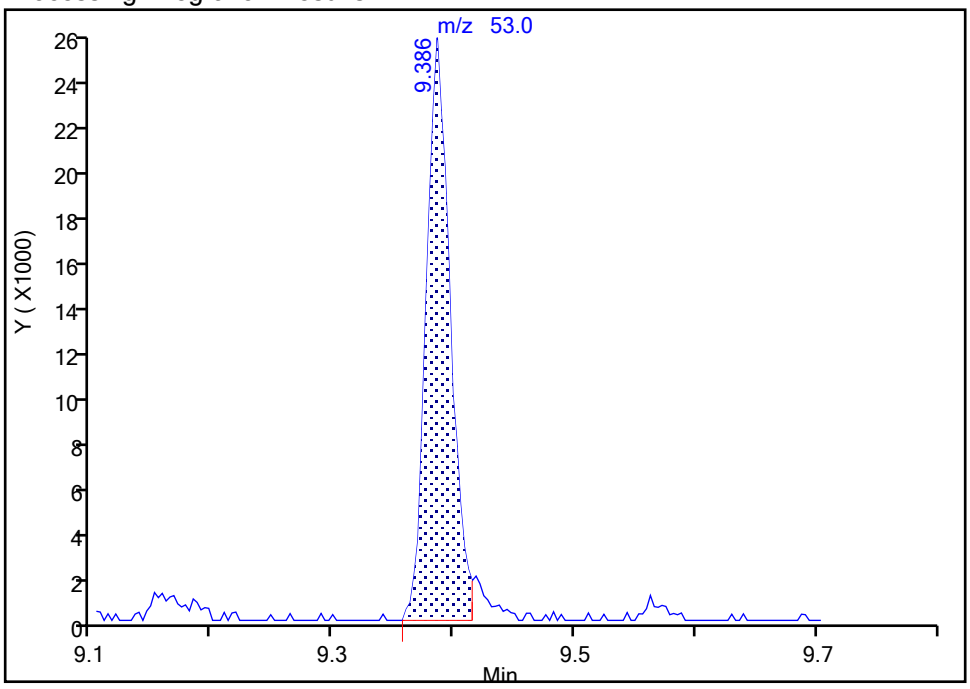
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

108 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

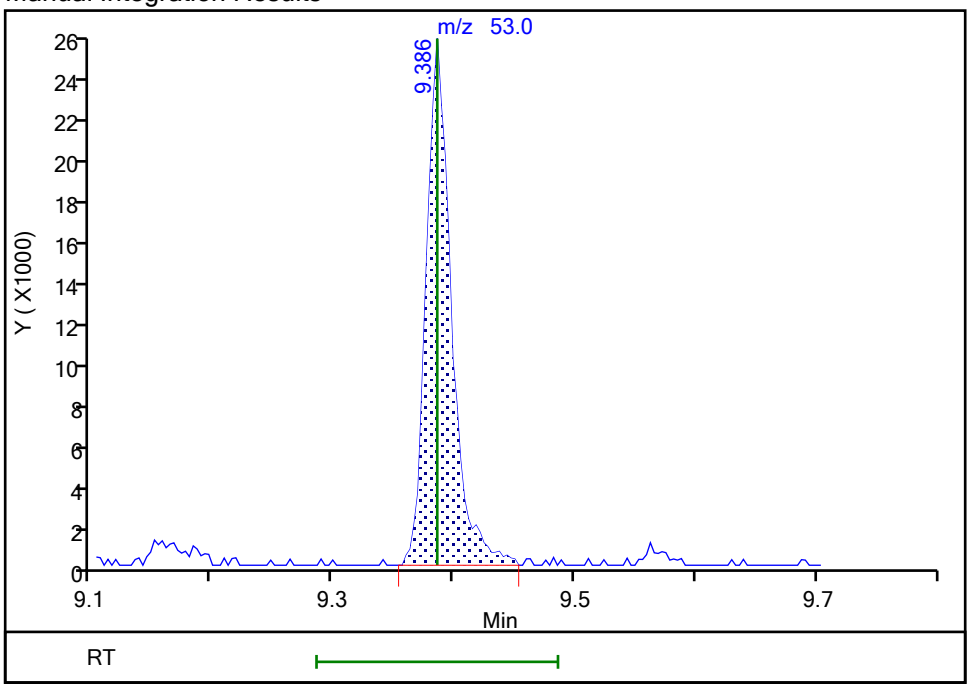
Processing Integration Results

RT: 9.39
Area: 35826
Amount: 8.754490
Amount Units: ug/l



Manual Integration Results

RT: 9.39
Area: 37584
Amount: 9.128059
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:32:05
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

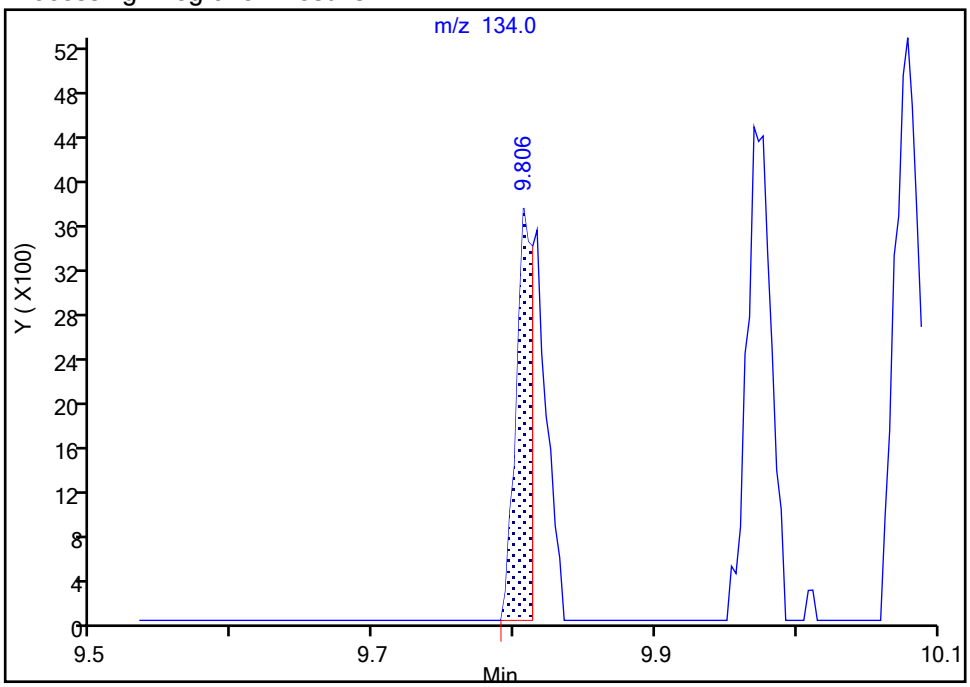
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

114 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

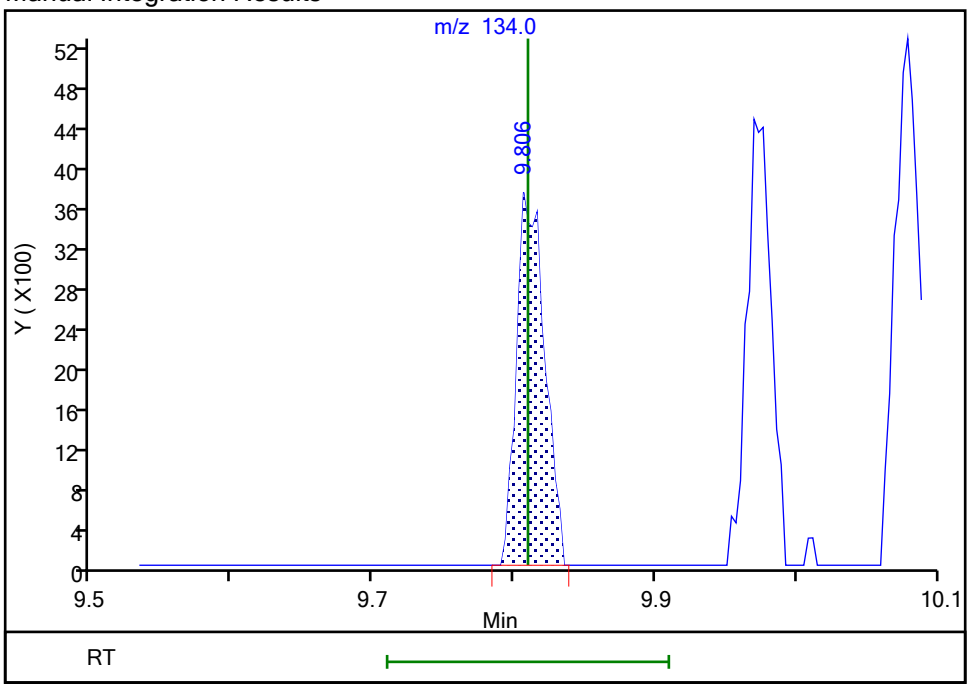
Processing Integration Results

RT: 9.81
Area: 3079
Amount: 0.636864
Amount Units: ug/l



Manual Integration Results

RT: 9.81
Area: 5160
Amount: 1.005473
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:32:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

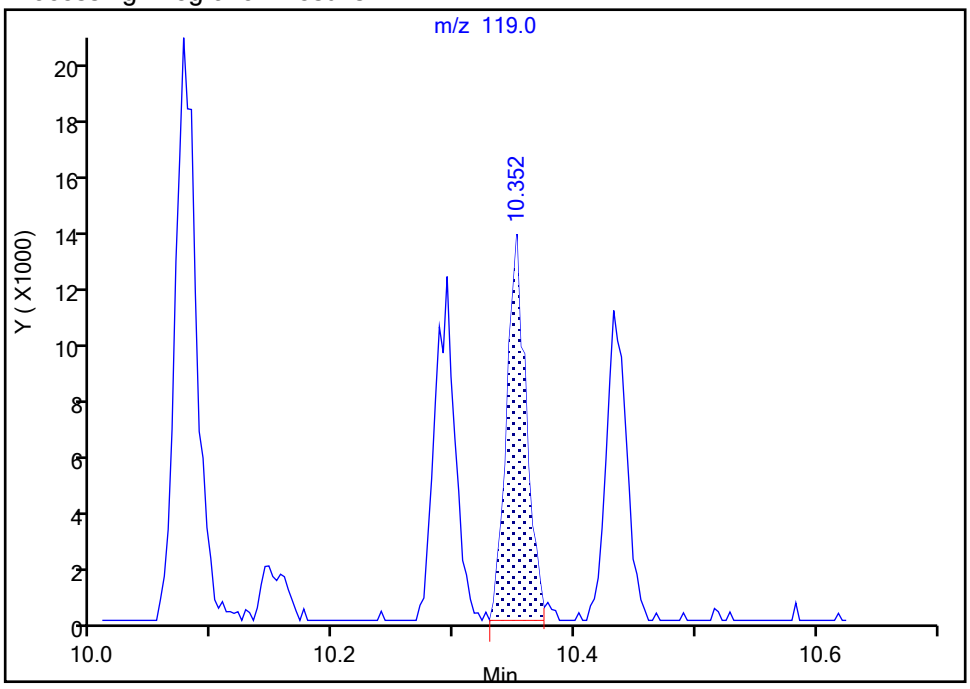
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

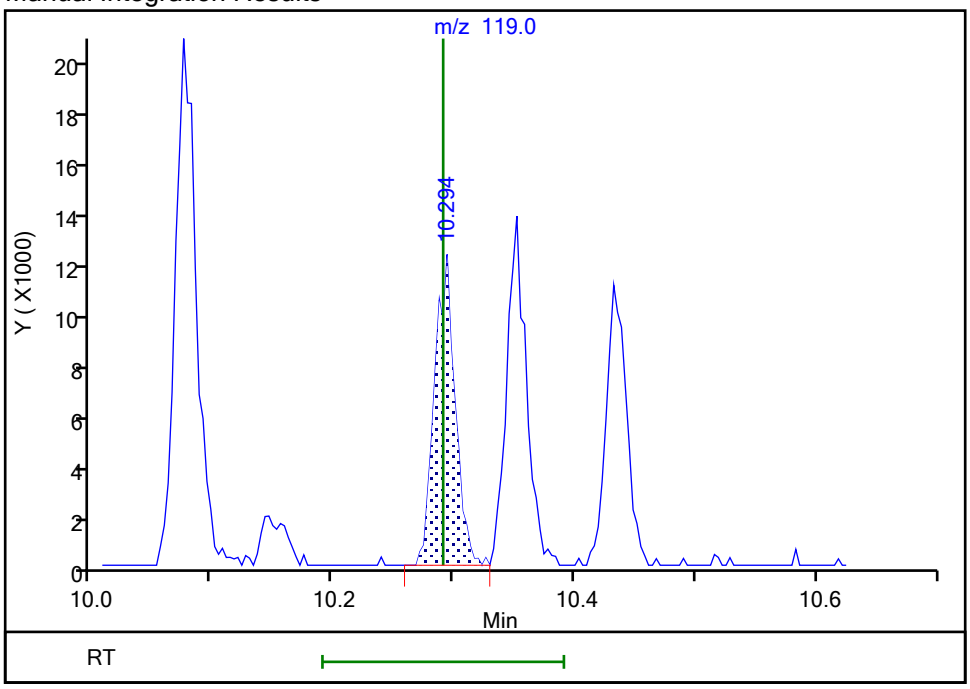
Processing Integration Results

RT: 10.35
Area: 15422
Amount: 1.066100
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 14355
Amount: 1.002908
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:39:41
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

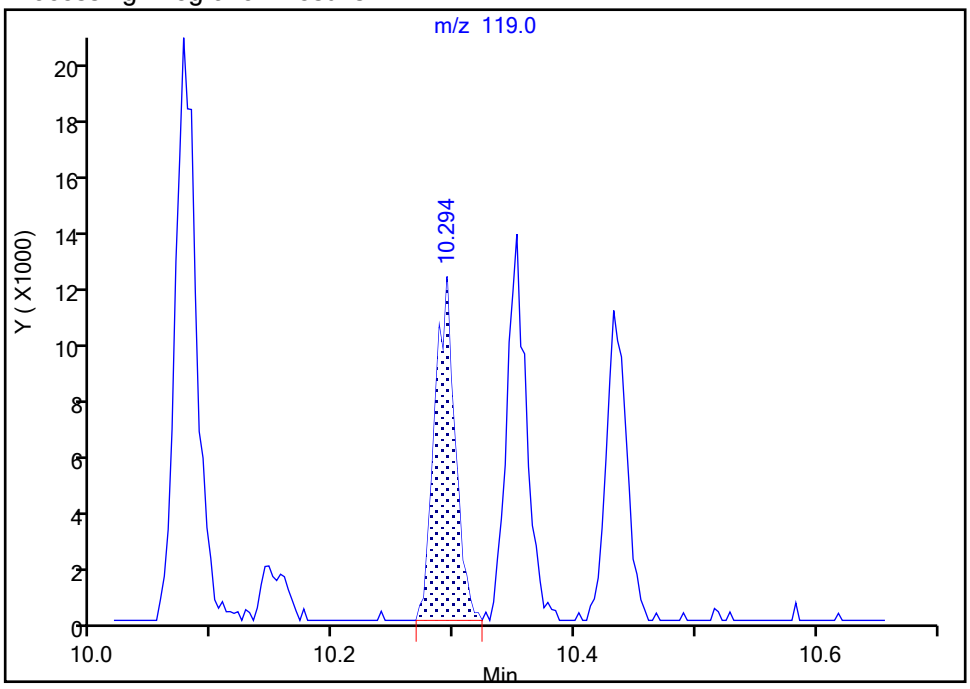
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D
Injection Date: 25-May-2021 18:01:30 Instrument ID: 9137
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

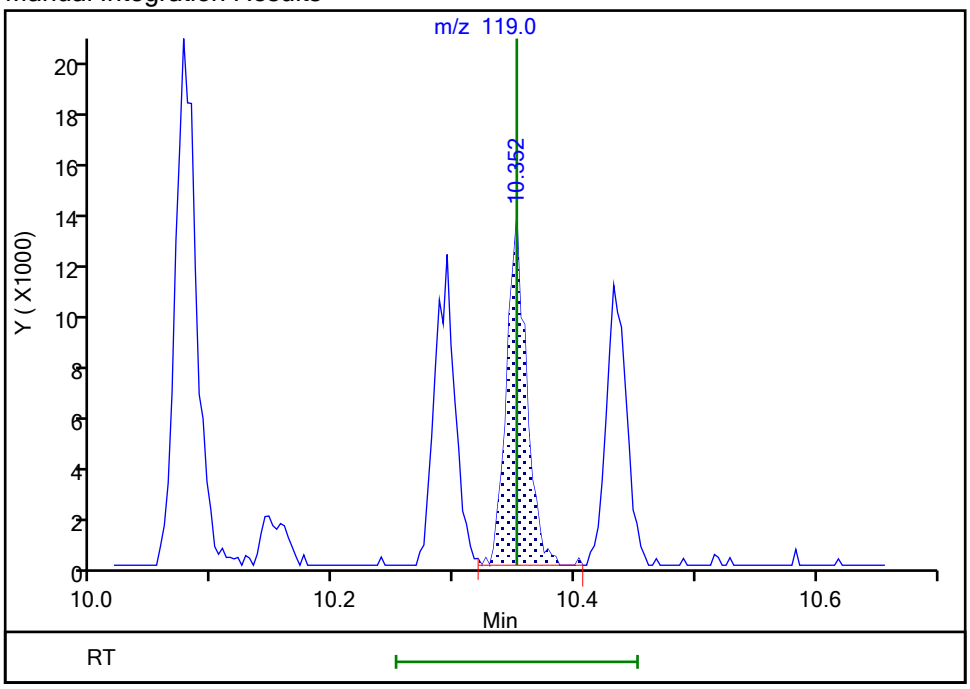
Processing Integration Results

RT: 10.29
Area: 14298
Amount: 0.974560
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 15837
Amount: 1.063521
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:39:58
Audit Action: Manually Integrated Audit Reason: Wrong peak

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

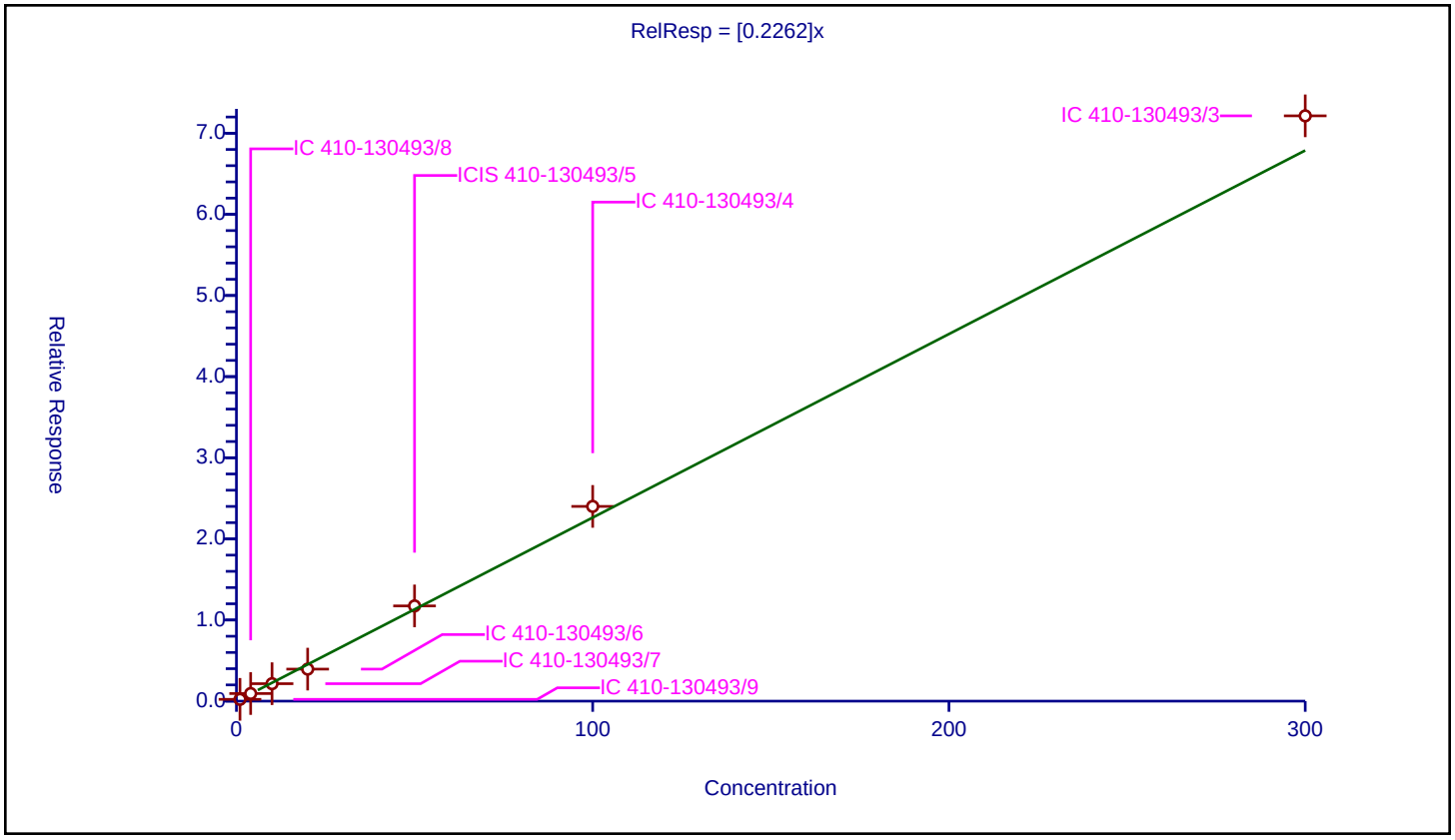
Curve Coefficients

Intercept:	0
Slope:	0.2262

Error Coefficients

Standard Error:	807000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.221706	50.0	1227754.0	0.221706	Y
2	IC 410-130493/8	4.0	0.937224	50.0	1217051.0	0.234306	Y
3	IC 410-130493/7	10.0	2.1506	50.0	1208802.0	0.21506	Y
4	IC 410-130493/6	20.0	3.94875	50.0	1231491.0	0.197437	Y
5	ICIS 410-130493/5	50.0	11.736445	50.0	1268131.0	0.234729	Y
6	IC 410-130493/4	100.0	24.002013	50.0	1272662.0	0.24002	Y
7	IC 410-130493/3	300.0	72.144673	50.0	1283706.0	0.240482	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

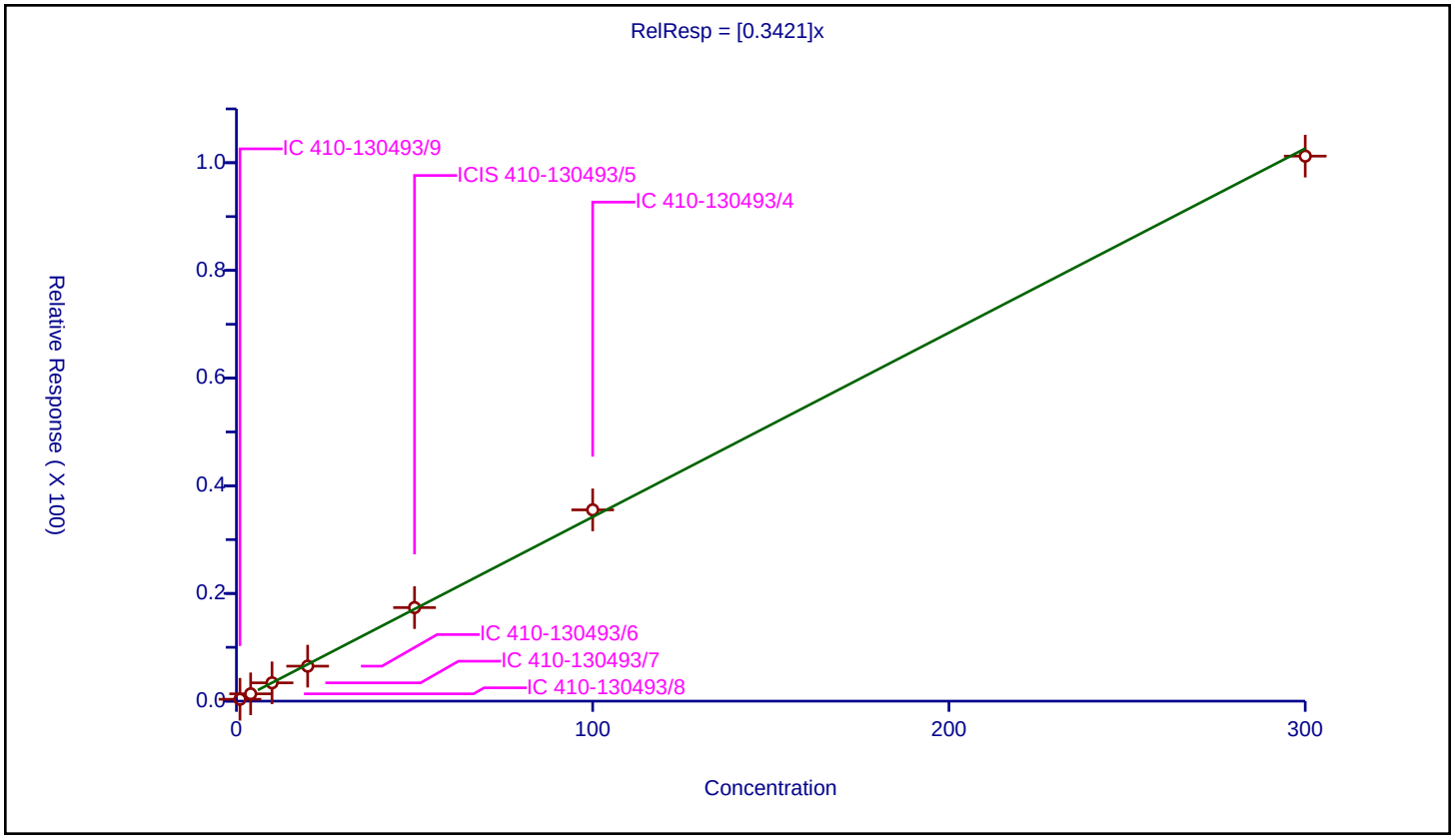
Curve Coefficients

Intercept:	0
Slope:	0.3421

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.350152	50.0	1227754.0	0.350152	Y
2	IC 410-130493/8	4.0	1.357955	50.0	1217051.0	0.339489	Y
3	IC 410-130493/7	10.0	3.402749	50.0	1208802.0	0.340275	Y
4	IC 410-130493/6	20.0	6.497287	50.0	1231491.0	0.324864	Y
5	ICIS 410-130493/5	50.0	17.375058	50.0	1268131.0	0.347501	Y
6	IC 410-130493/4	100.0	35.526872	50.0	1272662.0	0.355269	Y
7	IC 410-130493/3	300.0	101.230734	50.0	1283706.0	0.337436	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

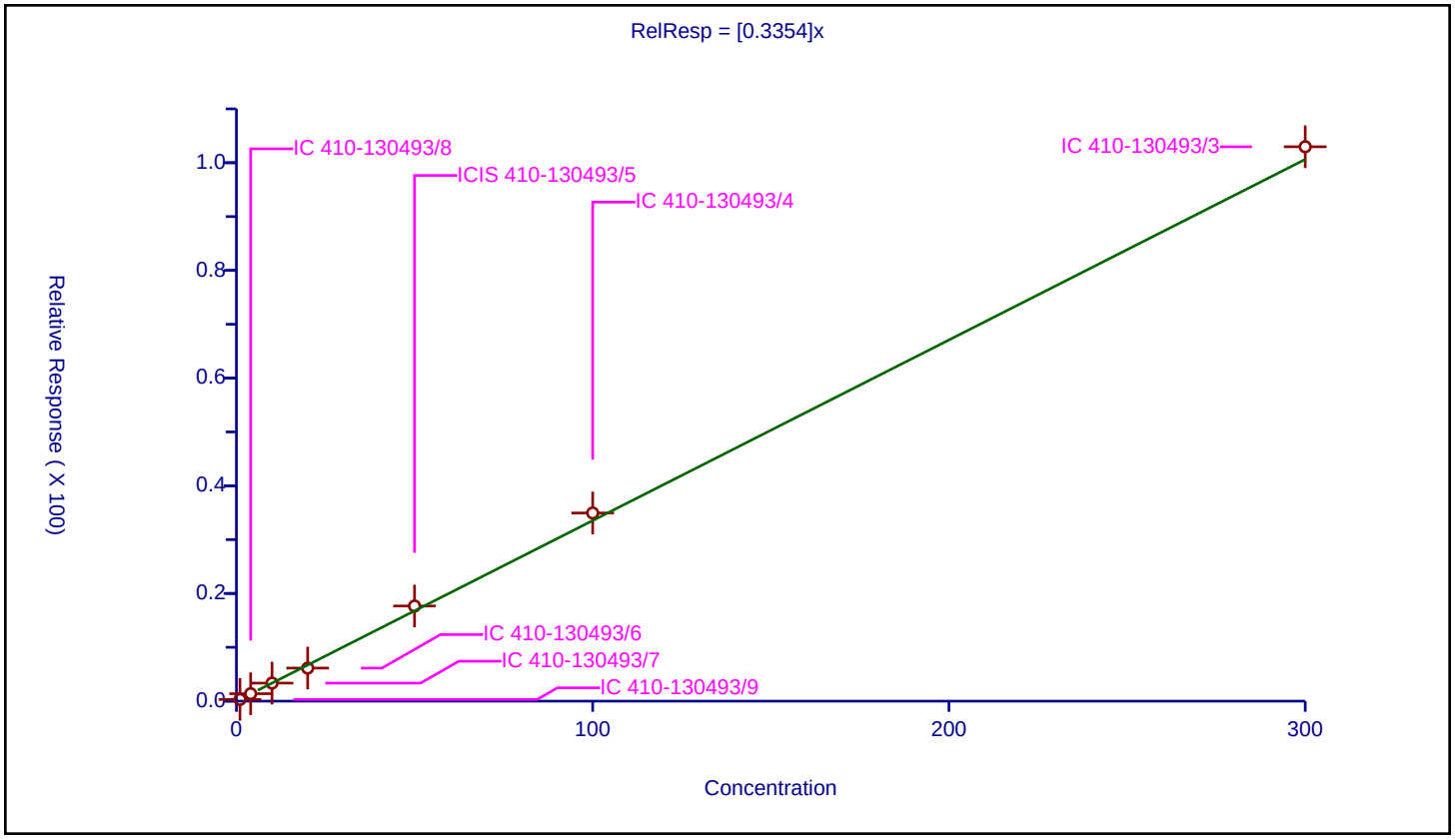
Curve Coefficients

Intercept:	0
Slope:	0.3354

Error Coefficients

Standard Error:	1160000
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 410-130493/9	1.0	0.313703	50.0	1227754.0	0.313703	Y
2	IC 410-130493/8	4.0	1.382933	50.0	1217051.0	0.345733	Y
3	IC 410-130493/7	10.0	3.352741	50.0	1208802.0	0.335274	Y
4	IC 410-130493/6	20.0	6.140037	50.0	1231491.0	0.307002	Y
5	ICIS 410-130493/5	50.0	17.669074	50.0	1268131.0	0.353381	Y
6	IC 410-130493/4	100.0	34.949225	50.0	1272662.0	0.349492	Y
7	IC 410-130493/3	300.0	102.966879	50.0	1283706.0	0.343223	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

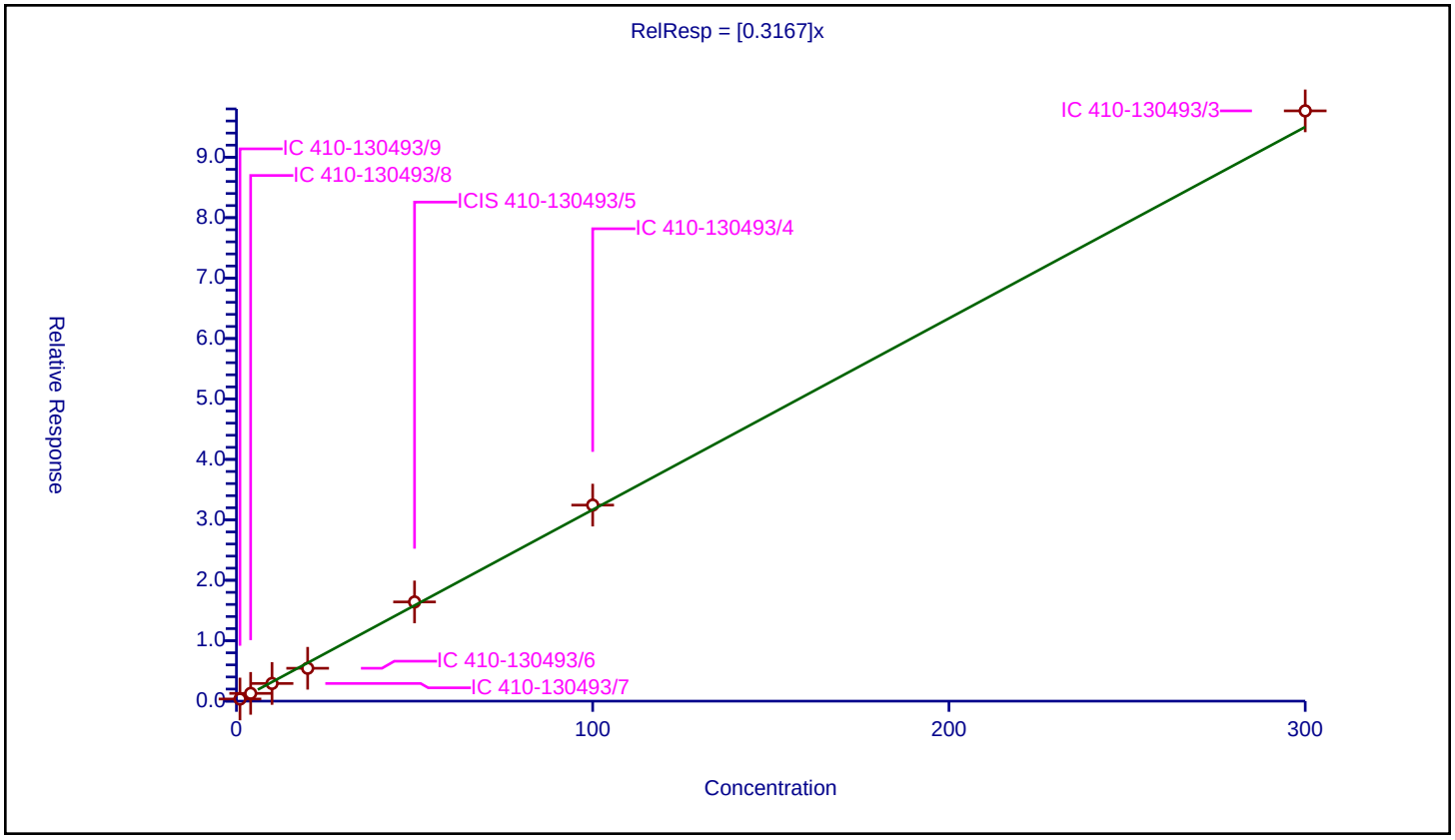
Curve Coefficients

Intercept:	0
Slope:	0.3167

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.353084	50.0	1227754.0	0.353084	Y
2	IC 410-130493/8	4.0	1.283923	50.0	1217051.0	0.320981	Y
3	IC 410-130493/7	10.0	2.925831	50.0	1208802.0	0.292583	Y
4	IC 410-130493/6	20.0	5.440072	50.0	1231491.0	0.272004	Y
5	ICIS 410-130493/5	50.0	16.413565	50.0	1268131.0	0.328271	Y
6	IC 410-130493/4	100.0	32.438935	50.0	1272662.0	0.324389	Y
7	IC 410-130493/3	300.0	97.67252	50.0	1283706.0	0.325575	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

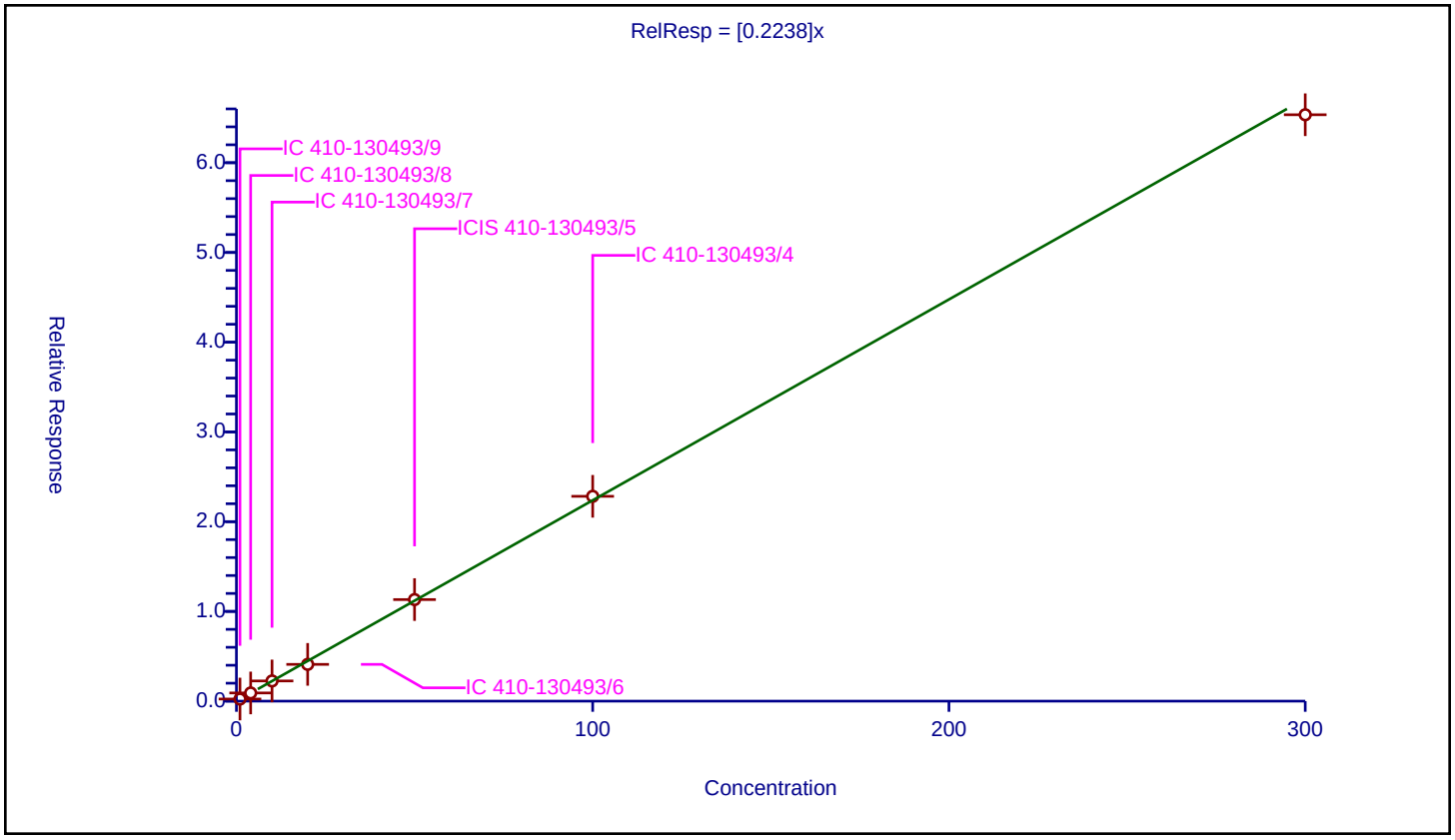
Curve Coefficients

Intercept:	0
Slope:	0.2238

Error Coefficients

Standard Error:	736000
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 410-130493/9	1.0	0.236041	50.0	1227754.0	0.236041	Y
2	IC 410-130493/8	4.0	0.913561	50.0	1217051.0	0.22839	Y
3	IC 410-130493/7	10.0	2.250699	50.0	1208802.0	0.22507	Y
4	IC 410-130493/6	20.0	4.096579	50.0	1231491.0	0.204829	Y
5	ICIS 410-130493/5	50.0	11.318152	50.0	1268131.0	0.226363	Y
6	IC 410-130493/4	100.0	22.825621	50.0	1272662.0	0.228256	Y
7	IC 410-130493/3	300.0	65.34666	50.0	1283706.0	0.217822	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

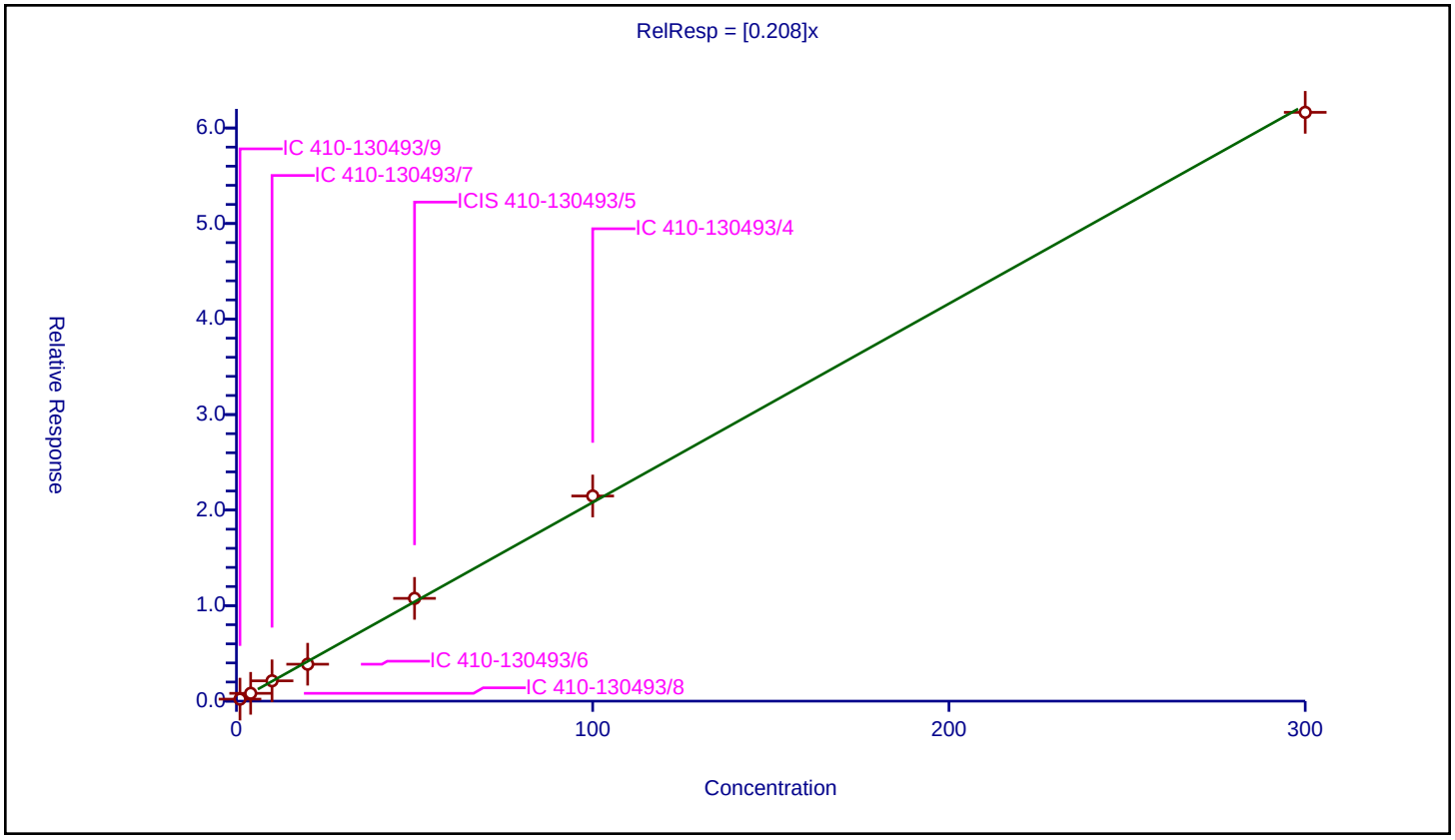
Curve Coefficients

Intercept:	0
Slope:	0.208

Error Coefficients

Standard Error:	694000
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 410-130493/9	1.0	0.210099	50.0	1227754.0	0.210099	Y
2	IC 410-130493/8	4.0	0.819604	50.0	1217051.0	0.204901	Y
3	IC 410-130493/7	10.0	2.126734	50.0	1208802.0	0.212673	Y
4	IC 410-130493/6	20.0	3.864543	50.0	1231491.0	0.193227	Y
5	ICIS 410-130493/5	50.0	10.758628	50.0	1268131.0	0.215173	Y
6	IC 410-130493/4	100.0	21.477305	50.0	1272662.0	0.214773	Y
7	IC 410-130493/3	300.0	61.639659	50.0	1283706.0	0.205466	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

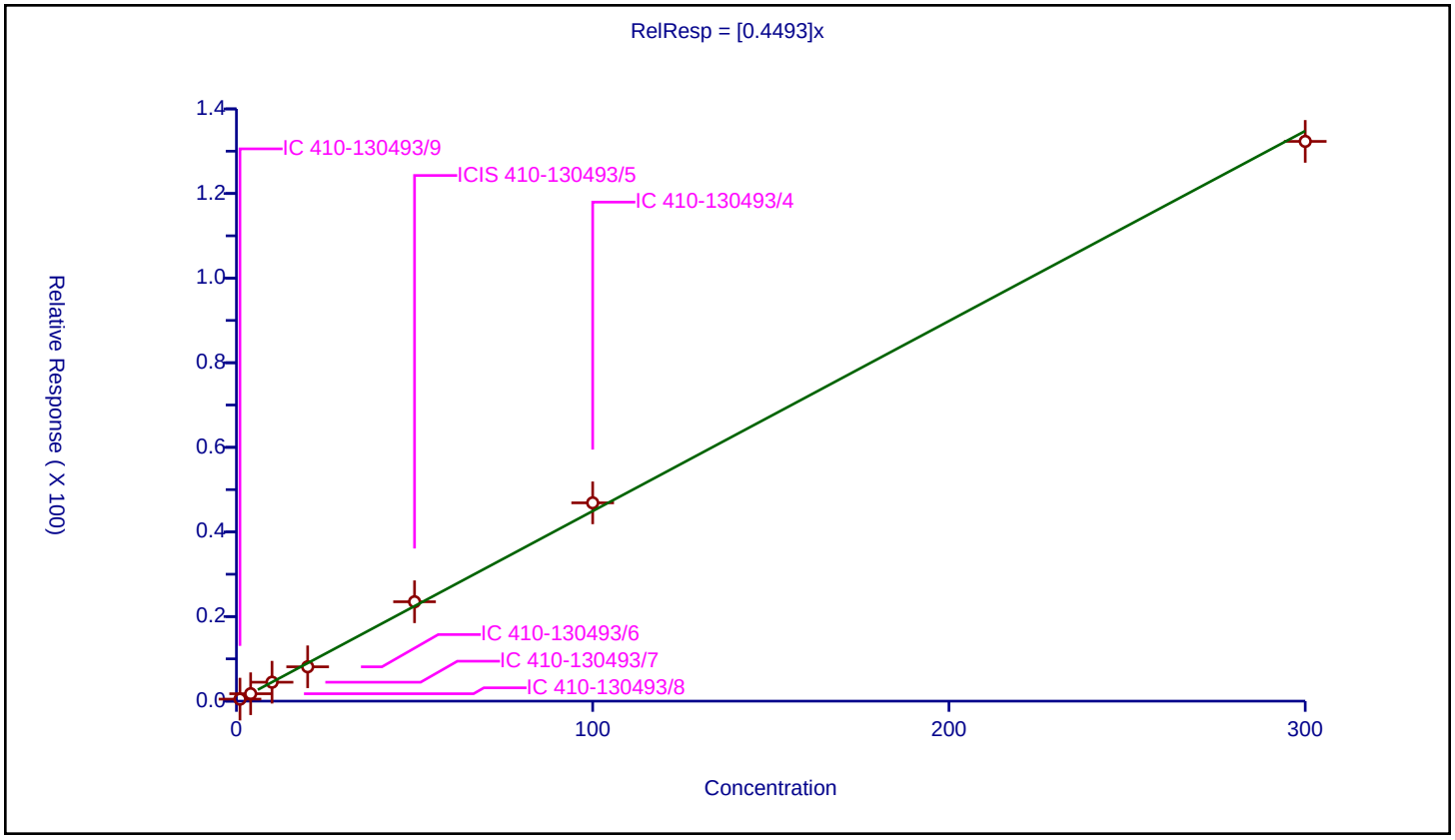
Curve Coefficients

Intercept:	0
Slope:	0.4493

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.47424	50.0	1227754.0	0.47424	Y
2	IC 410-130493/8	4.0	1.751365	50.0	1217051.0	0.437841	Y
3	IC 410-130493/7	10.0	4.471493	50.0	1208802.0	0.447149	Y
4	IC 410-130493/6	20.0	8.119507	50.0	1231491.0	0.405975	Y
5	ICIS 410-130493/5	50.0	23.491461	50.0	1268131.0	0.469829	Y
6	IC 410-130493/4	100.0	46.876508	50.0	1272662.0	0.468765	Y
7	IC 410-130493/3	300.0	132.31881	50.0	1283706.0	0.441063	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

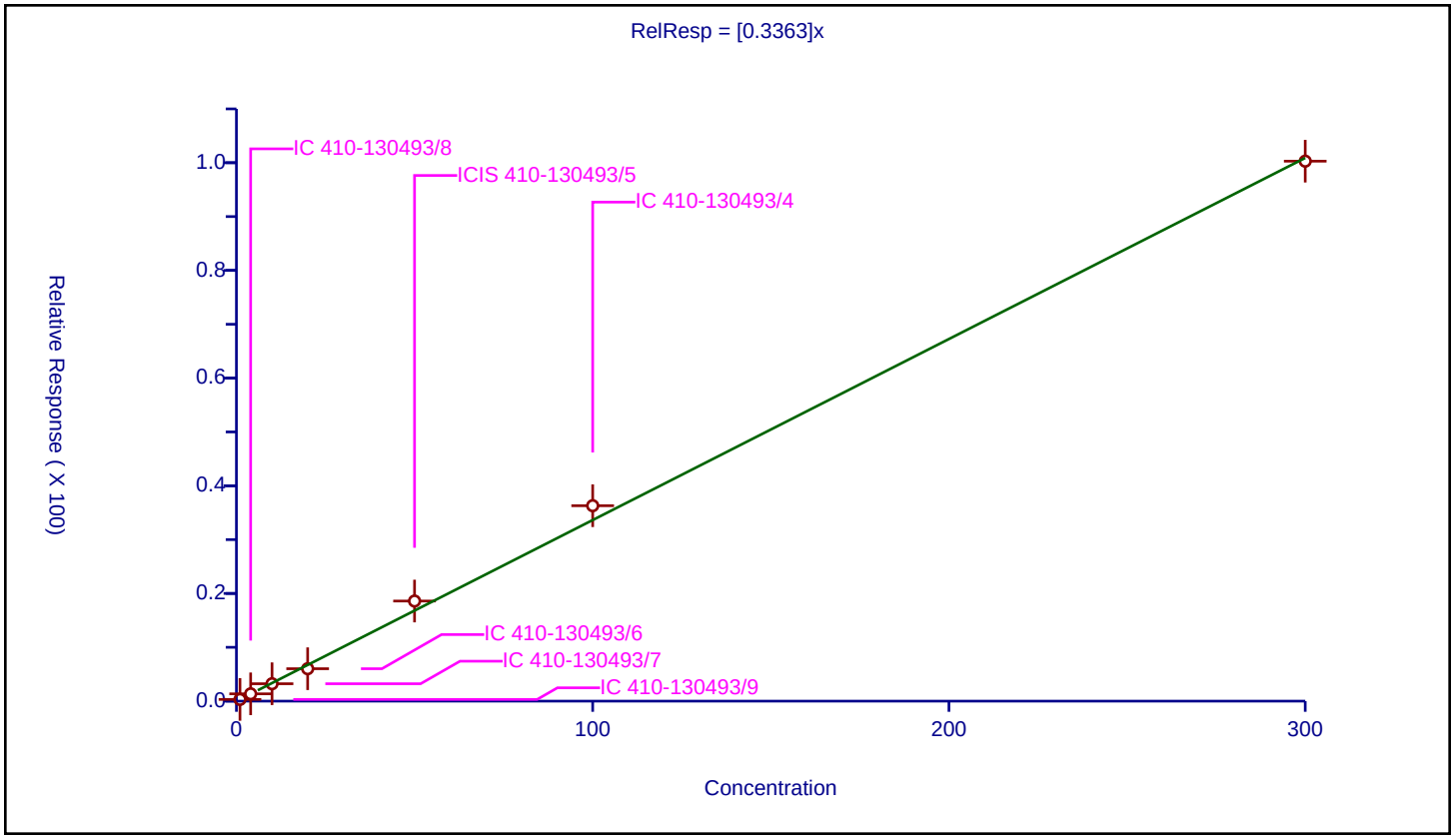
Curve Coefficients

Intercept:	0
Slope:	0.3363

Error Coefficients

Standard Error:	1140000
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 410-130493/9	1.0	0.32083	50.0	1227754.0	0.32083	Y
2	IC 410-130493/8	4.0	1.359844	50.0	1217051.0	0.339961	Y
3	IC 410-130493/7	10.0	3.23043	50.0	1208802.0	0.323043	Y
4	IC 410-130493/6	20.0	6.022862	50.0	1231491.0	0.301143	Y
5	ICIS 410-130493/5	50.0	18.591455	50.0	1268131.0	0.371829	Y
6	IC 410-130493/4	100.0	36.295536	50.0	1272662.0	0.362955	Y
7	IC 410-130493/3	300.0	100.288033	50.0	1283706.0	0.334293	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

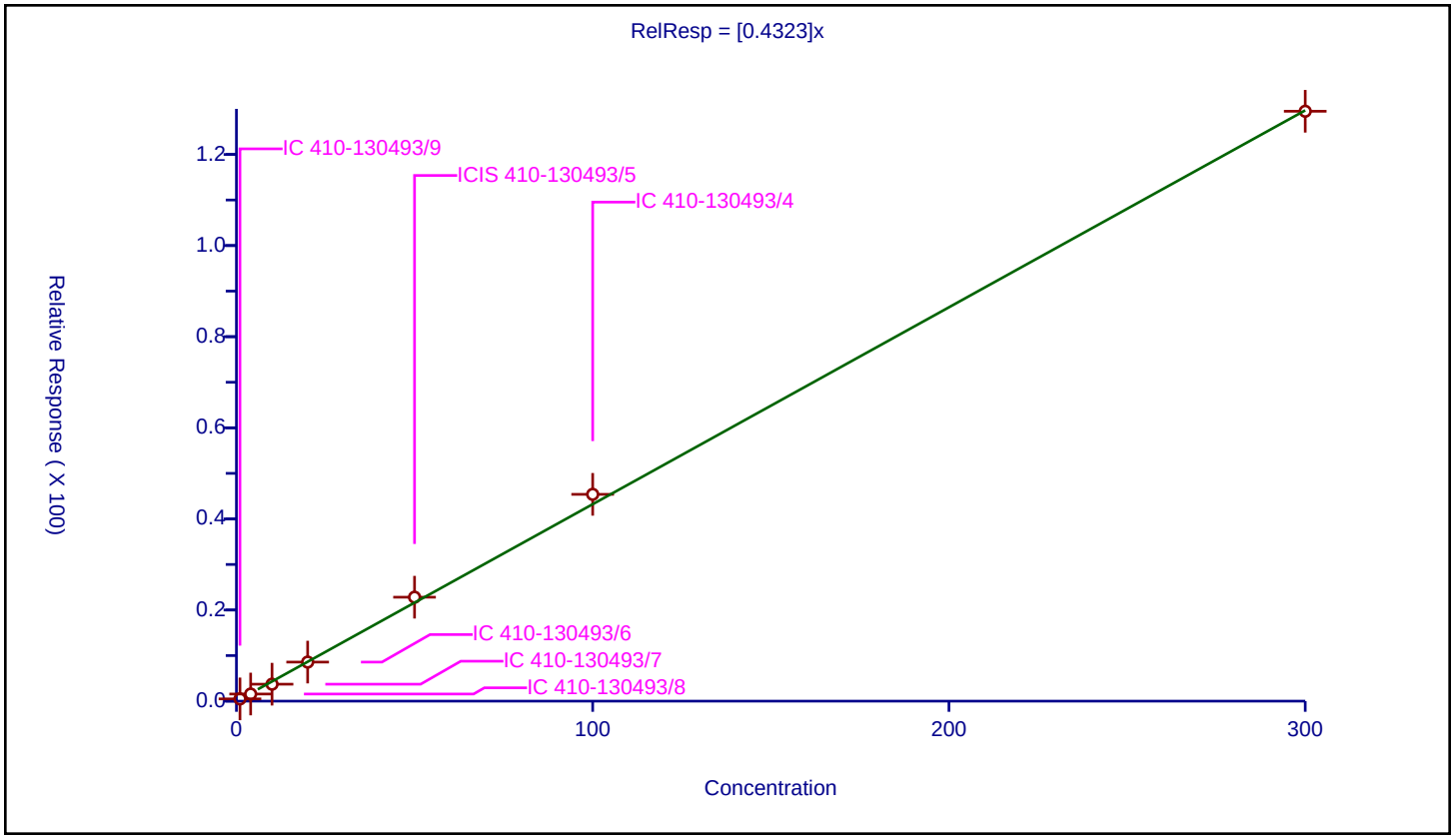
Curve Coefficients

Intercept:	0
Slope:	0.4323

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.491955	50.0	1227754.0	0.491955	Y
2	IC 410-130493/8	4.0	1.565505	50.0	1217051.0	0.391376	Y
3	IC 410-130493/7	10.0	3.720915	50.0	1208802.0	0.372092	Y
4	IC 410-130493/6	20.0	8.571195	50.0	1231491.0	0.42856	Y
5	ICIS 410-130493/5	50.0	22.814481	50.0	1268131.0	0.45629	Y
6	IC 410-130493/4	100.0	45.395714	50.0	1272662.0	0.453957	Y
7	IC 410-130493/3	300.0	129.478284	50.0	1283706.0	0.431594	Y



Calibration / Ethanol

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

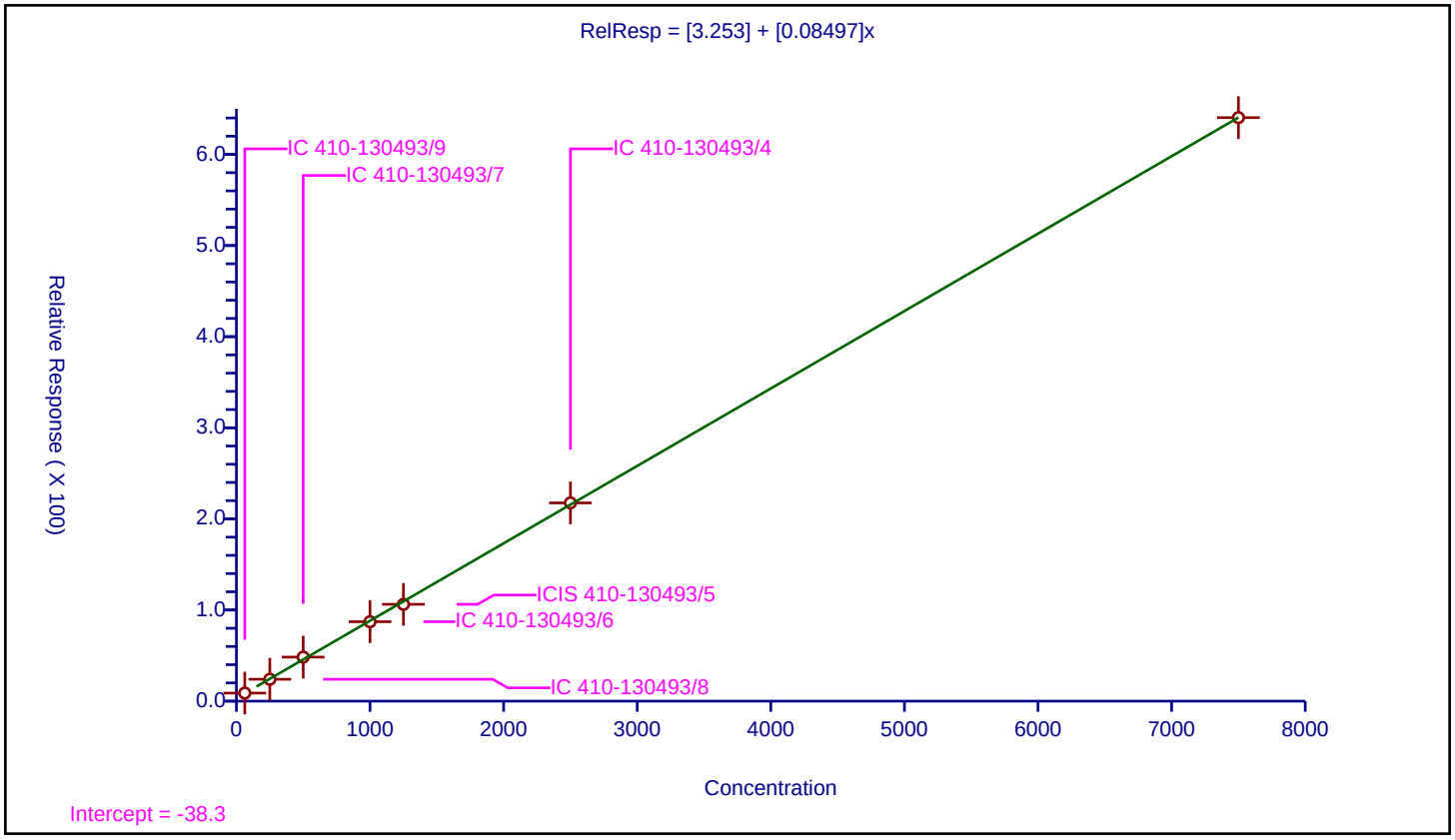
Curve Coefficients

Intercept:	3.253
Slope:	0.08497

Error Coefficients

Standard Error:	398000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	62.50201	8.869821	250.0	310181.0	0.141913	Y
2	IC 410-130493/8	250.00804	24.026	250.0	280082.0	0.096101	Y
3	IC 410-130493/7	500.01608	48.344464	250.0	262181.0	0.096686	Y
4	IC 410-130493/6	1000.03216	87.177942	250.0	264743.0	0.087175	Y
5	ICIS 410-130493/5	1250.0402	106.291827	250.0	309457.0	0.085031	Y
6	IC 410-130493/4	2500.0804	217.586941	250.0	299023.0	0.087032	Y
7	IC 410-130493/3	7500.2412	640.412922	250.0	326163.0	0.085386	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

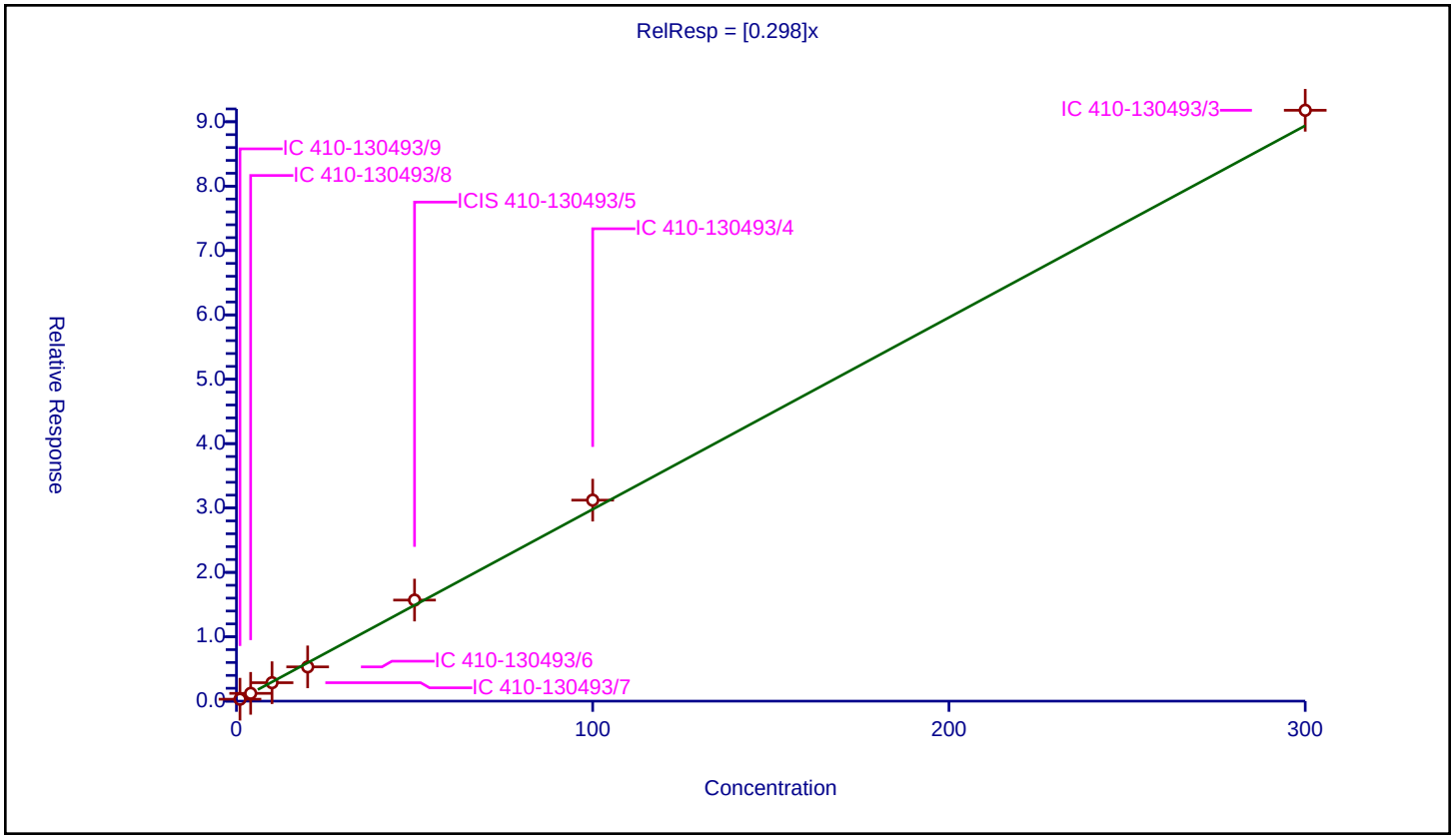
Curve Coefficients

Intercept:	0
Slope:	0.298

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.298065	50.0	1227754.0	0.298065	Y
2	IC 410-130493/8	4.0	1.212069	50.0	1217051.0	0.303017	Y
3	IC 410-130493/7	10.0	2.863662	50.0	1208802.0	0.286366	Y
4	IC 410-130493/6	20.0	5.324034	50.0	1231491.0	0.266202	Y
5	ICIS 410-130493/5	50.0	15.699955	50.0	1268131.0	0.313999	Y
6	IC 410-130493/4	100.0	31.223805	50.0	1272662.0	0.312238	Y
7	IC 410-130493/3	300.0	91.786632	50.0	1283706.0	0.305955	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

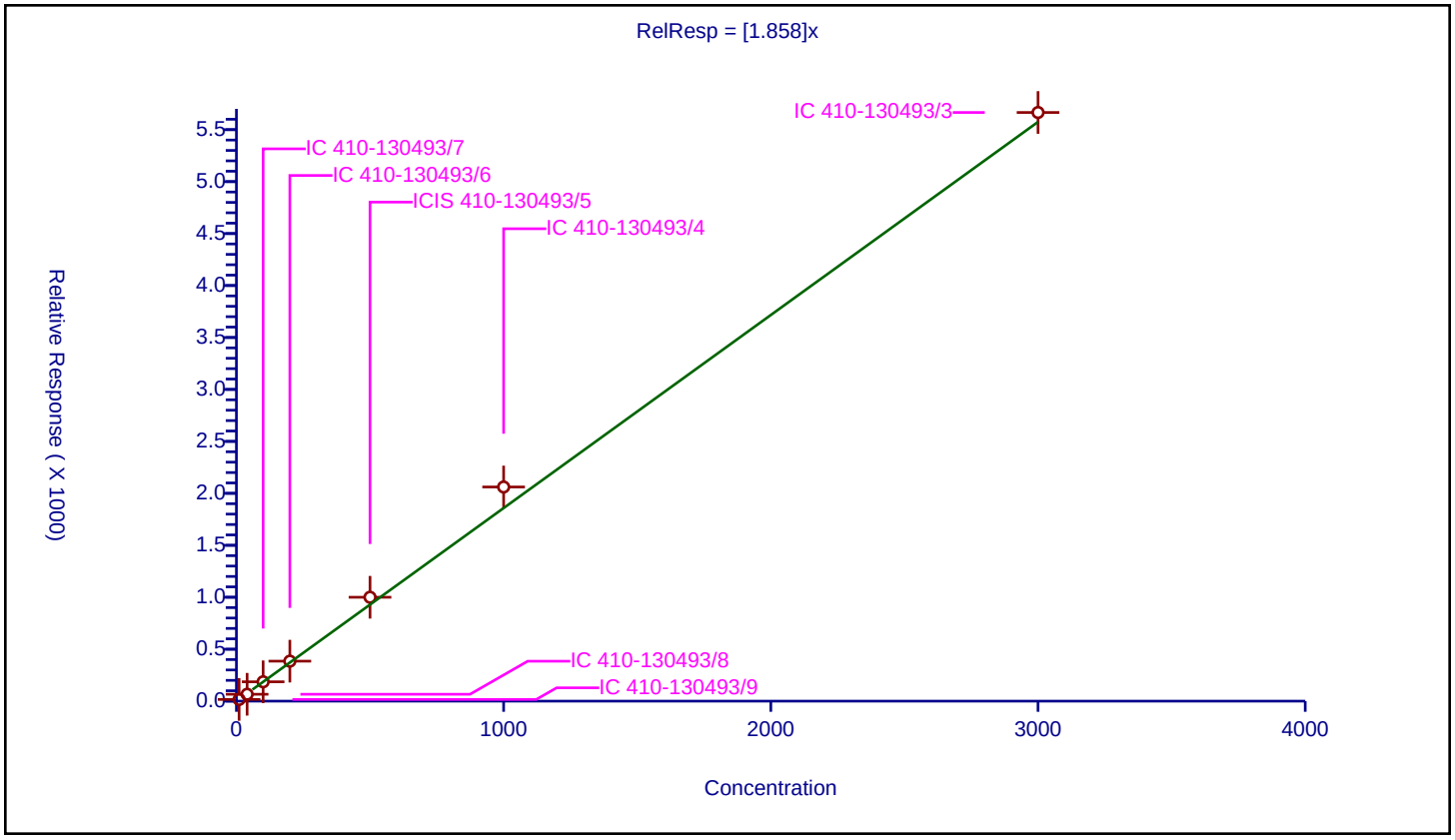
Curve Coefficients

Intercept:	0
Slope:	1.858

Error Coefficients

Standard Error:	3220000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	10.000501	16.162337	250.0	310181.0	1.616153	Y
2	IC 410-130493/8	40.002002	66.233282	250.0	280082.0	1.655749	Y
3	IC 410-130493/7	100.005006	186.136677	250.0	262181.0	1.861274	Y
4	IC 410-130493/6	200.010011	384.890252	250.0	264743.0	1.924355	Y
5	ICIS 410-130493/5	500.025028	999.943449	250.0	309457.0	1.999787	Y
6	IC 410-130493/4	1000.050055	2061.129077	250.0	299023.0	2.061026	Y
7	IC 410-130493/3	3000.150166	5665.382033	250.0	326163.0	1.888366	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

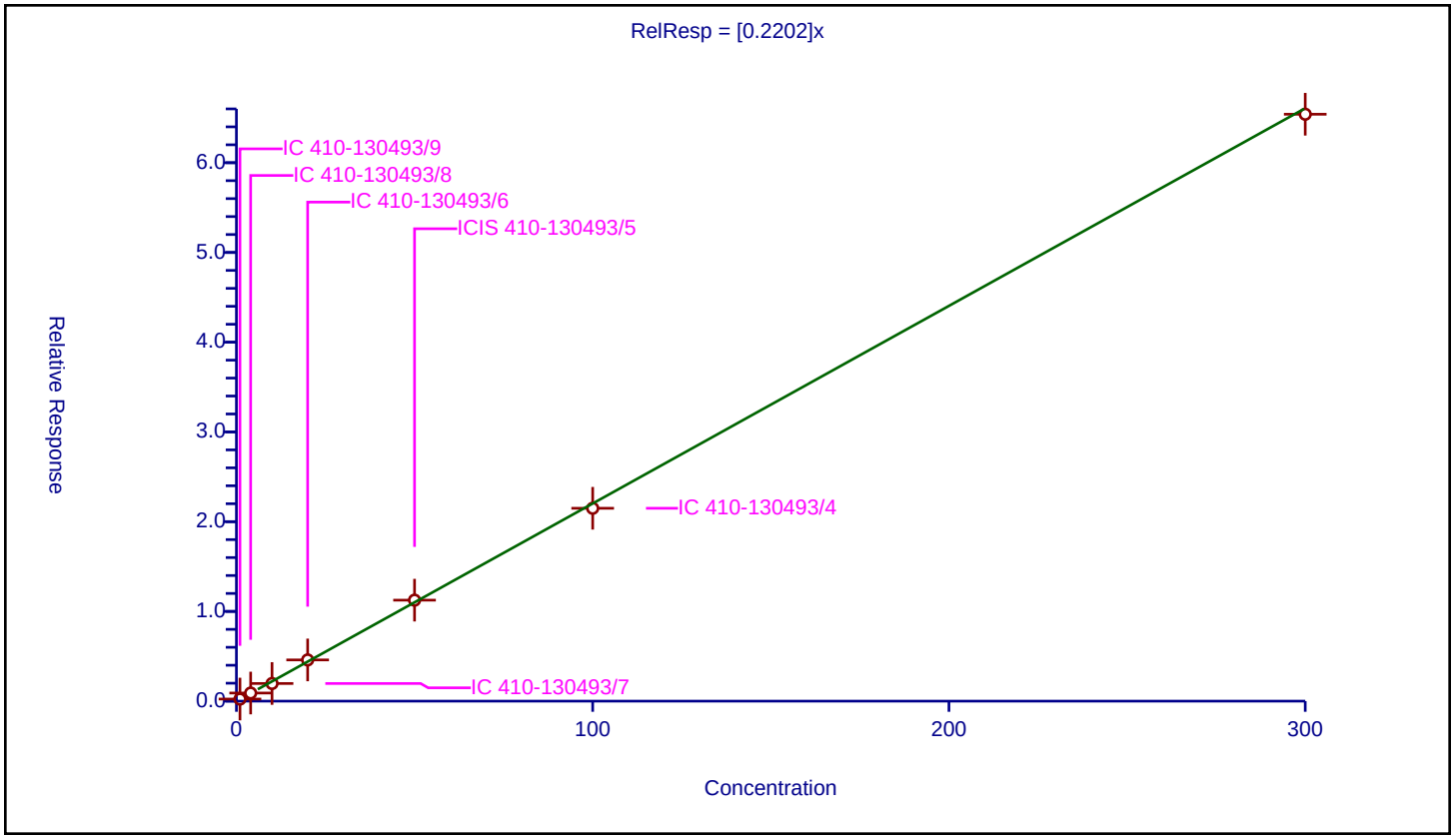
Curve Coefficients

Intercept:	0
Slope:	0.2202

Error Coefficients

Standard Error:	732000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.231805	50.0	1227754.0	0.231805	Y
2	IC 410-130493/8	4.0	0.902386	50.0	1217051.0	0.225597	Y
3	IC 410-130493/7	10.0	1.965872	50.0	1208802.0	0.196587	Y
4	IC 410-130493/6	20.0	4.593253	50.0	1231491.0	0.229663	Y
5	ICIS 410-130493/5	50.0	11.254042	50.0	1268131.0	0.225081	Y
6	IC 410-130493/4	100.0	21.49247	50.0	1272662.0	0.214925	Y
7	IC 410-130493/3	300.0	65.403332	50.0	1283706.0	0.218011	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

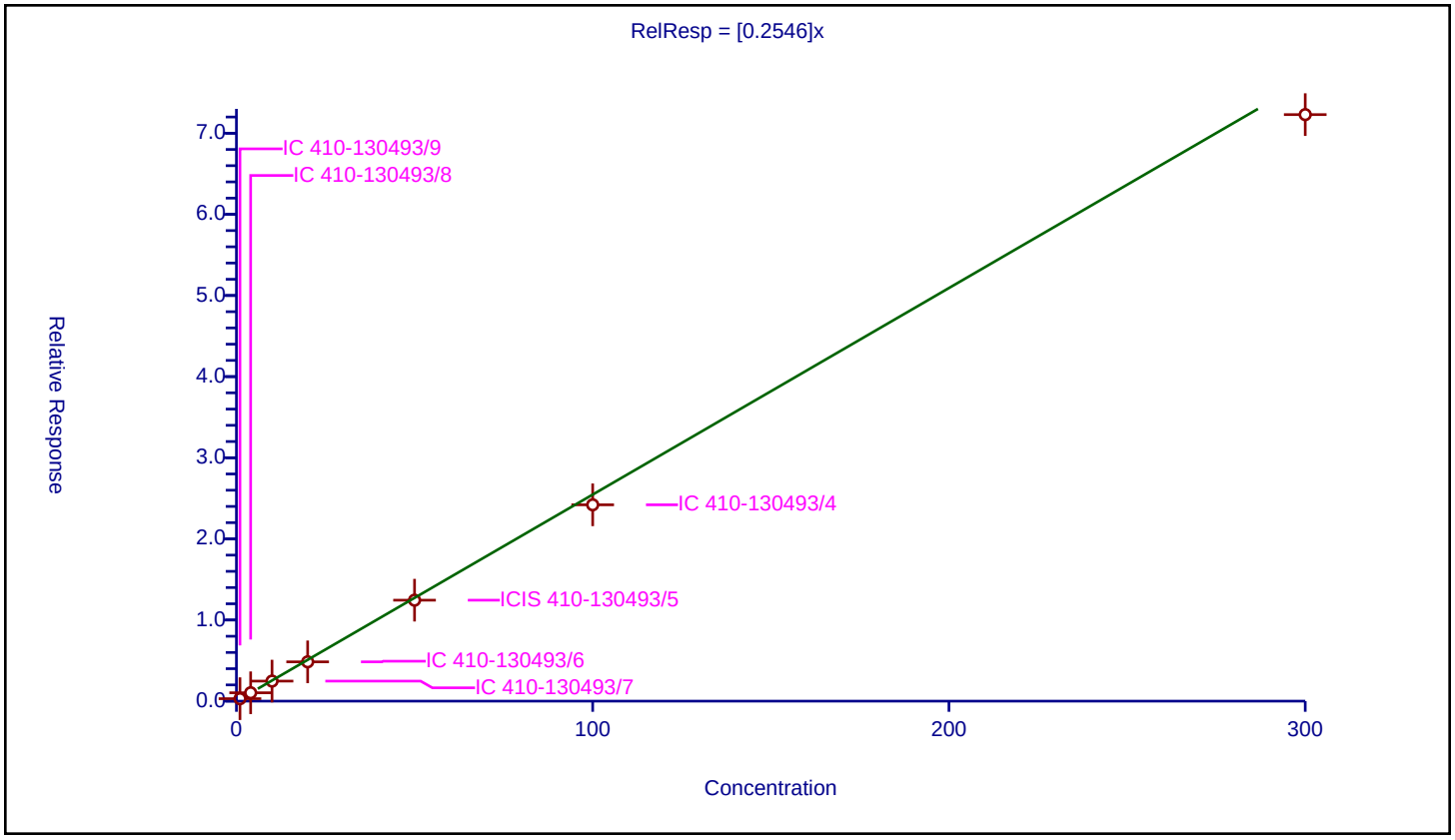
Curve Coefficients

Intercept:	0
Slope:	0.2546

Error Coefficients

Standard Error:	811000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.302544	50.0	1227754.0	0.302544	Y
2	IC 410-130493/8	4.0	1.033646	50.0	1217051.0	0.258412	Y
3	IC 410-130493/7	10.0	2.471786	50.0	1208802.0	0.247179	Y
4	IC 410-130493/6	20.0	4.843763	50.0	1231491.0	0.242188	Y
5	ICIS 410-130493/5	50.0	12.442169	50.0	1268131.0	0.248843	Y
6	IC 410-130493/4	100.0	24.20018	50.0	1272662.0	0.242002	Y
7	IC 410-130493/3	300.0	72.292916	50.0	1283706.0	0.240976	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

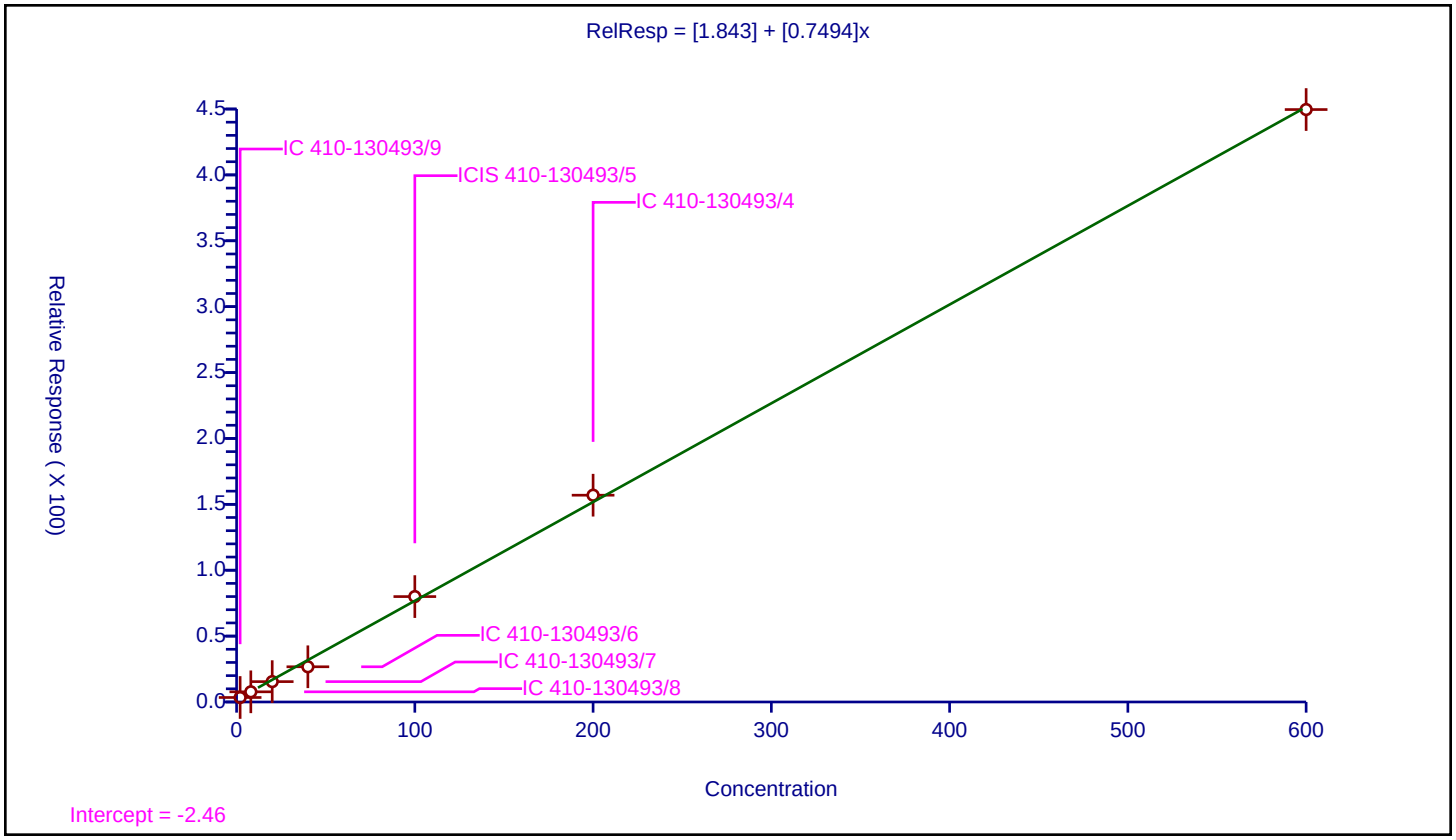
Curve Coefficients

Intercept:	1.843
Slope:	0.7494

Error Coefficients

Standard Error:	279000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	2.0	3.4093	250.0	310181.0	1.70465	Y
2	IC 410-130493/8	8.0	7.724524	250.0	280082.0	0.965565	Y
3	IC 410-130493/7	20.0	15.452111	250.0	262181.0	0.772606	Y
4	IC 410-130493/6	40.0	26.713643	250.0	264743.0	0.667841	Y
5	ICIS 410-130493/5	100.0	79.987688	250.0	309457.0	0.799877	Y
6	IC 410-130493/4	200.0	156.932744	250.0	299023.0	0.784664	Y
7	IC 410-130493/3	600.0	449.598054	250.0	326163.0	0.74933	Y



Calibration / Isopropyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

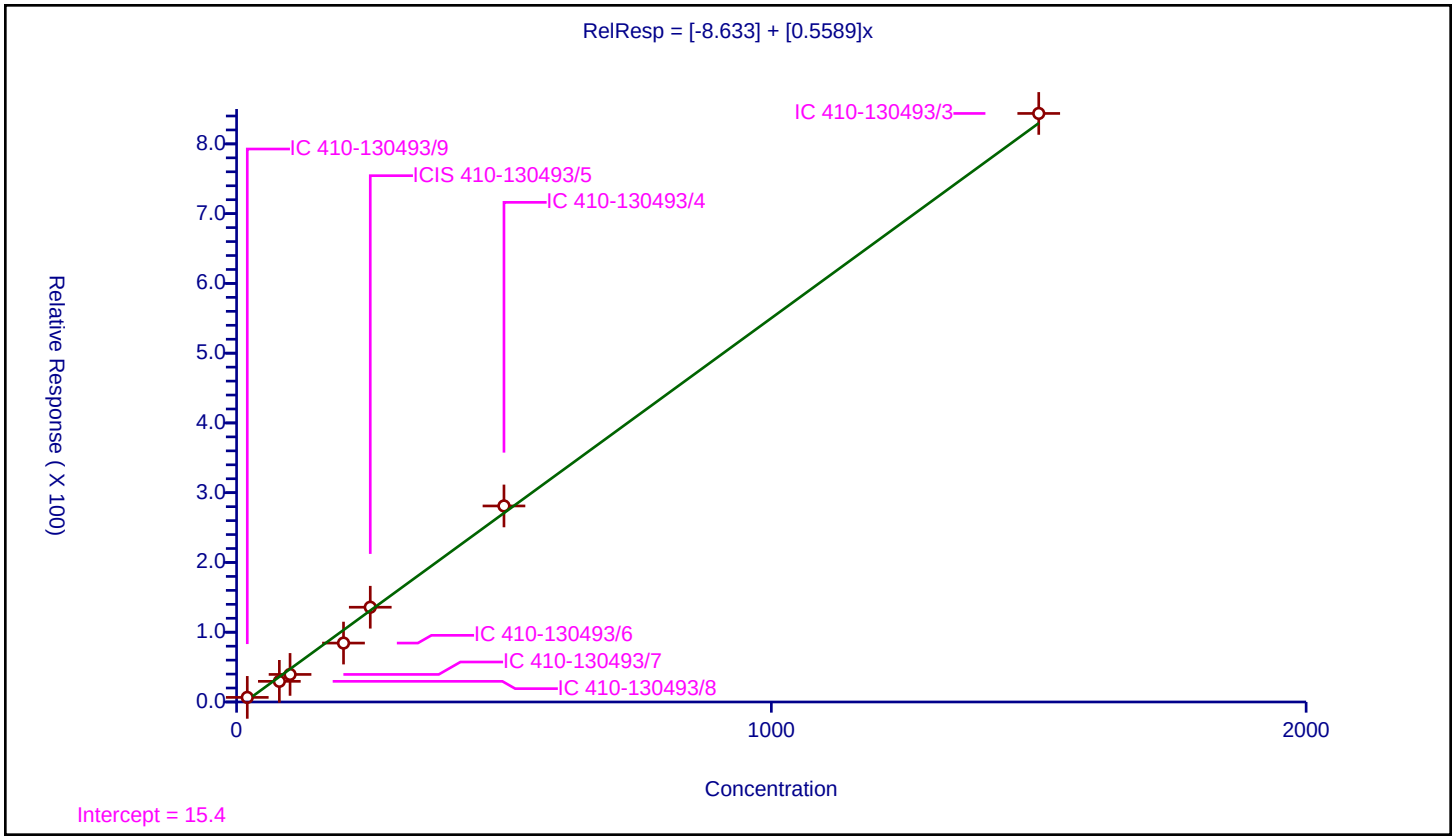
Curve Coefficients

Intercept:	-8.633
Slope:	0.5589

Error Coefficients

Standard Error:	522000
Relative Standard Error:	20.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	20.0	6.60985	250.0	310181.0	0.330493	Y
2	IC 410-130493/8	80.0	29.604723	250.0	280082.0	0.370059	Y
3	IC 410-130493/7	100.0	39.523268	250.0	262181.0	0.395233	Y
4	IC 410-130493/6	200.0	84.446992	250.0	264743.0	0.422235	Y
5	ICIS 410-130493/5	250.0	135.821778	250.0	309457.0	0.543287	Y
6	IC 410-130493/4	500.0	281.010992	250.0	299023.0	0.562022	Y
7	IC 410-130493/3	1500.0	843.663291	250.0	326163.0	0.562442	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

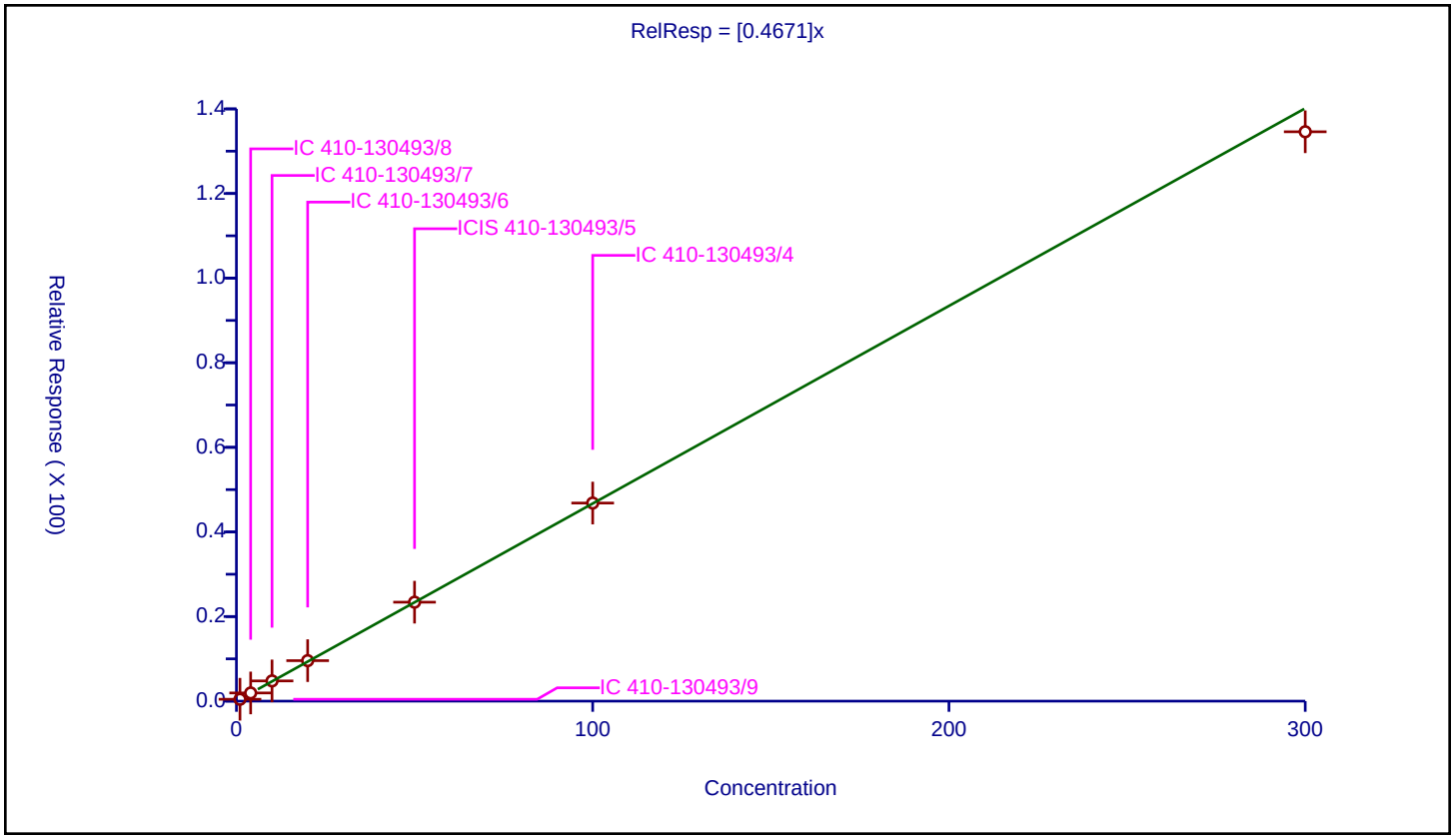
Curve Coefficients

Intercept:	0
Slope:	0.4671

Error Coefficients

Standard Error:	1520000
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 410-130493/9	1.0	0.443859	50.0	1227754.0	0.443859	Y
2	IC 410-130493/8	4.0	1.937511	50.0	1217051.0	0.484378	Y
3	IC 410-130493/7	10.0	4.782214	50.0	1208802.0	0.478221	Y
4	IC 410-130493/6	20.0	9.572746	50.0	1231491.0	0.478637	Y
5	ICIS 410-130493/5	50.0	23.389934	50.0	1268131.0	0.467799	Y
6	IC 410-130493/4	100.0	46.82838	50.0	1272662.0	0.468284	Y
7	IC 410-130493/3	300.0	134.592656	50.0	1283706.0	0.448642	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

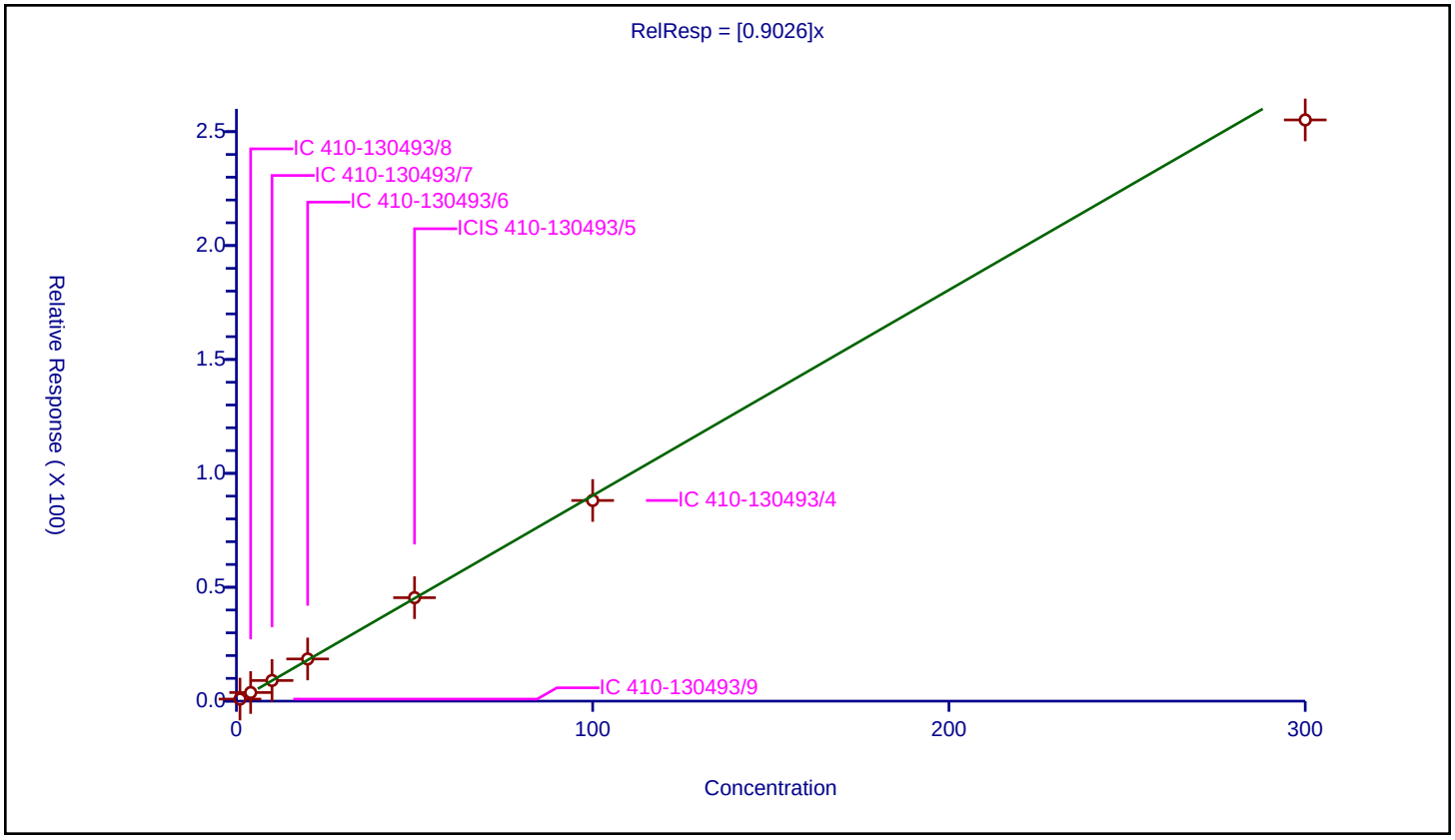
Curve Coefficients

Intercept:	0
Slope:	0.9026

Error Coefficients

Standard Error:	2870000
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 410-130493/9	1.0	0.900628	50.0	1227754.0	0.900628	Y
2	IC 410-130493/8	4.0	3.780491	50.0	1217051.0	0.945123	Y
3	IC 410-130493/7	10.0	9.064884	50.0	1208802.0	0.906488	Y
4	IC 410-130493/6	20.0	18.51463	50.0	1231491.0	0.925731	Y
5	ICIS 410-130493/5	50.0	45.418415	50.0	1268131.0	0.908368	Y
6	IC 410-130493/4	100.0	88.099943	50.0	1272662.0	0.880999	Y
7	IC 410-130493/3	300.0	255.158113	50.0	1283706.0	0.850527	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

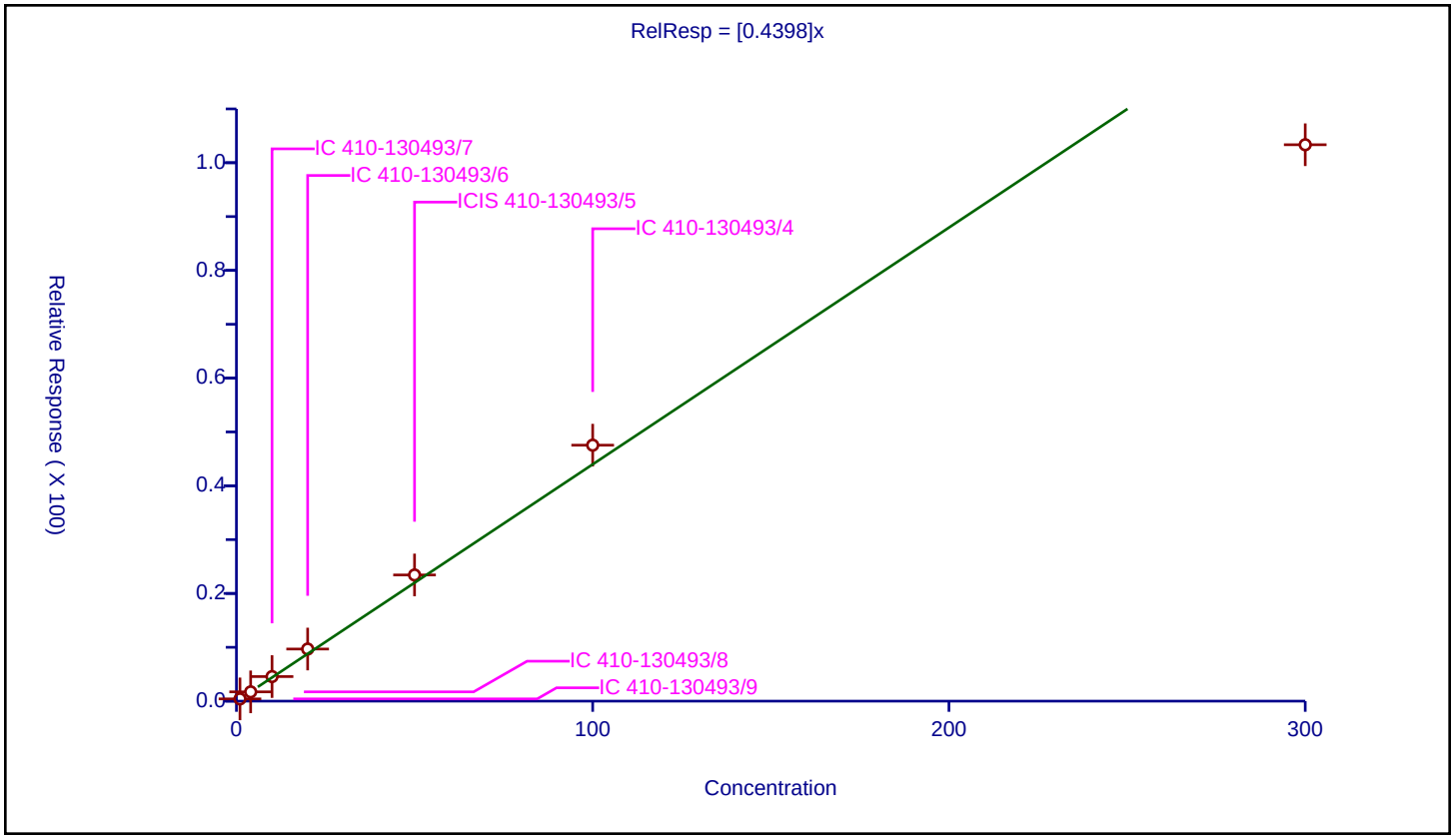
Curve Coefficients

Intercept:	0
Slope:	0.4398

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	11.0
Correlation Coefficient:	0.984
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.418366	50.0	1227754.0	0.418366	Y
2	IC 410-130493/8	4.0	1.725195	50.0	1217051.0	0.431299	Y
3	IC 410-130493/7	10.0	4.563527	50.0	1208802.0	0.456353	Y
4	IC 410-130493/6	20.0	9.677578	50.0	1231491.0	0.483879	Y
5	ICIS 410-130493/5	50.0	23.436222	50.0	1268131.0	0.468724	Y
6	IC 410-130493/4	100.0	47.540902	50.0	1272662.0	0.475409	Y
7	IC 410-130493/3	300.0	103.339199	50.0	1283706.0	0.344464	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

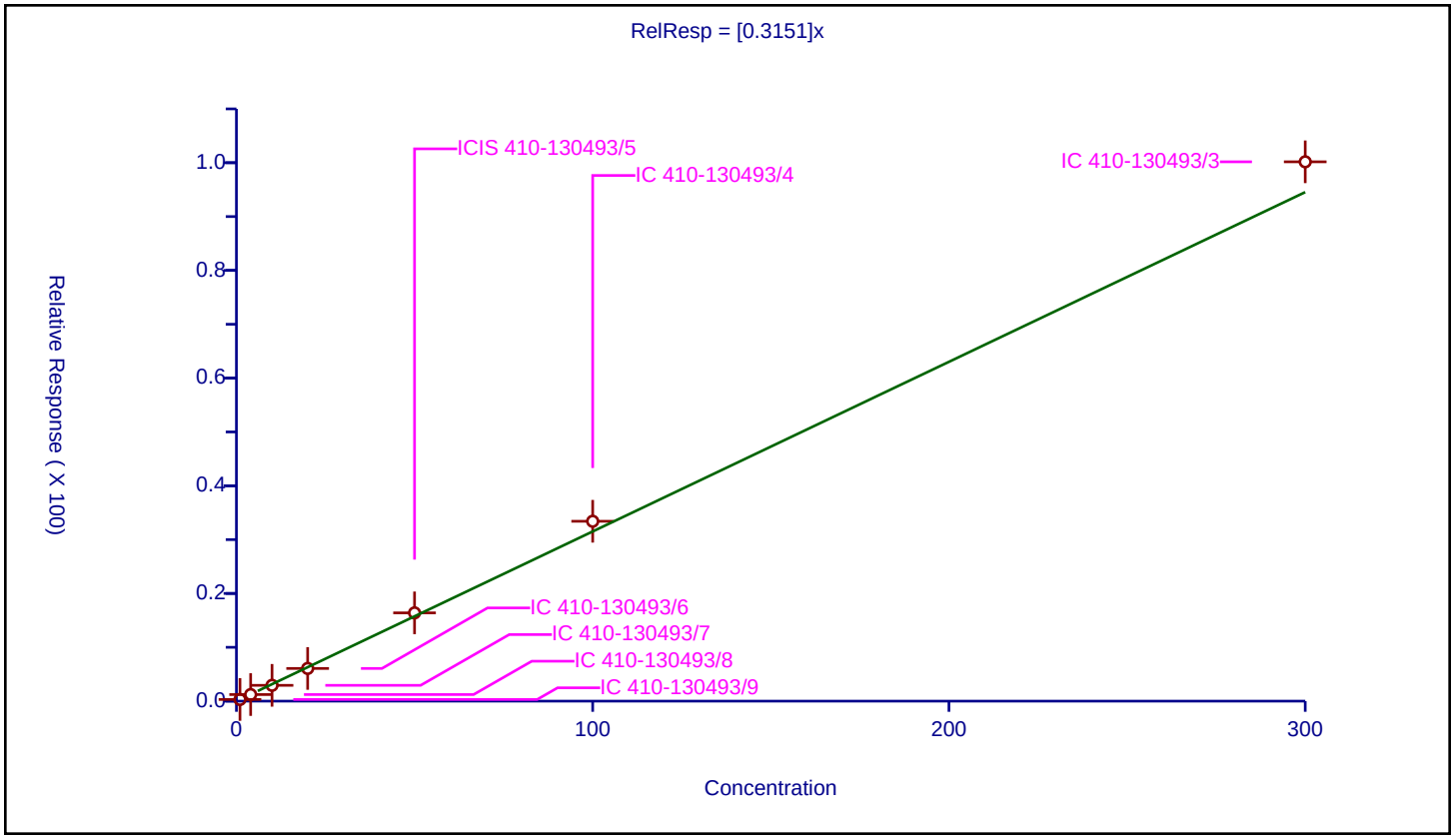
Curve Coefficients

Intercept:	0
Slope:	0.3151

Error Coefficients

Standard Error:	1120000
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 410-130493/9	1.0	0.306861	50.0	1227754.0	0.306861	Y
2	IC 410-130493/8	4.0	1.223778	50.0	1217051.0	0.305944	Y
3	IC 410-130493/7	10.0	2.933855	50.0	1208802.0	0.293386	Y
4	IC 410-130493/6	20.0	6.074425	50.0	1231491.0	0.303721	Y
5	ICIS 410-130493/5	50.0	16.394402	50.0	1268131.0	0.327888	Y
6	IC 410-130493/4	100.0	33.409381	50.0	1272662.0	0.334094	Y
7	IC 410-130493/3	300.0	100.168925	50.0	1283706.0	0.333896	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

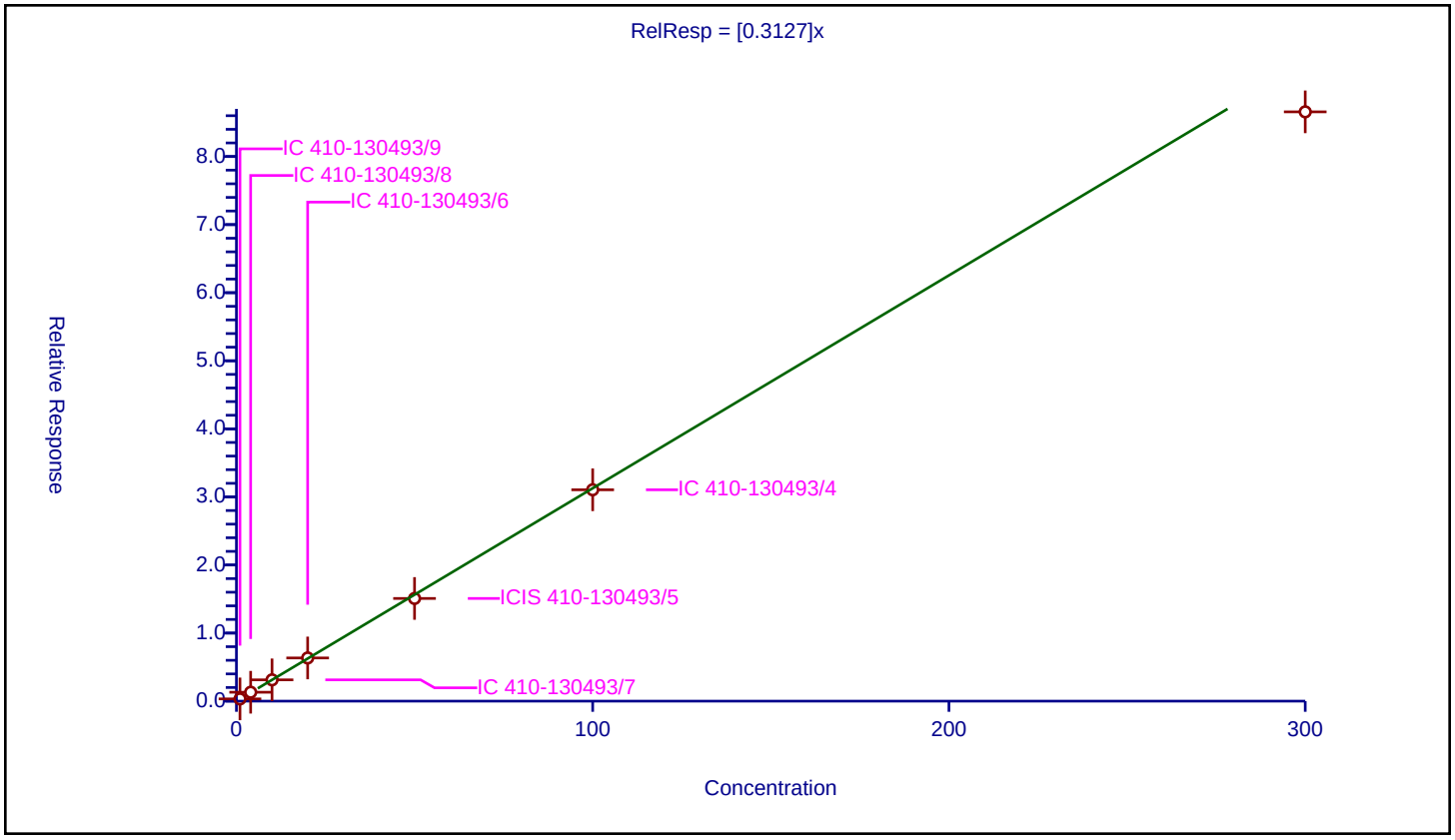
Curve Coefficients

Intercept:	0
Slope:	0.3127

Error Coefficients

Standard Error:	978000
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 410-130493/9	1.0	0.330889	50.0	1227754.0	0.330889	Y
2	IC 410-130493/8	4.0	1.310298	50.0	1217051.0	0.327575	Y
3	IC 410-130493/7	10.0	3.126401	50.0	1208802.0	0.31264	Y
4	IC 410-130493/6	20.0	6.344992	50.0	1231491.0	0.31725	Y
5	ICIS 410-130493/5	50.0	15.085271	50.0	1268131.0	0.301705	Y
6	IC 410-130493/4	100.0	31.048503	50.0	1272662.0	0.310485	Y
7	IC 410-130493/3	300.0	86.565888	50.0	1283706.0	0.288553	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

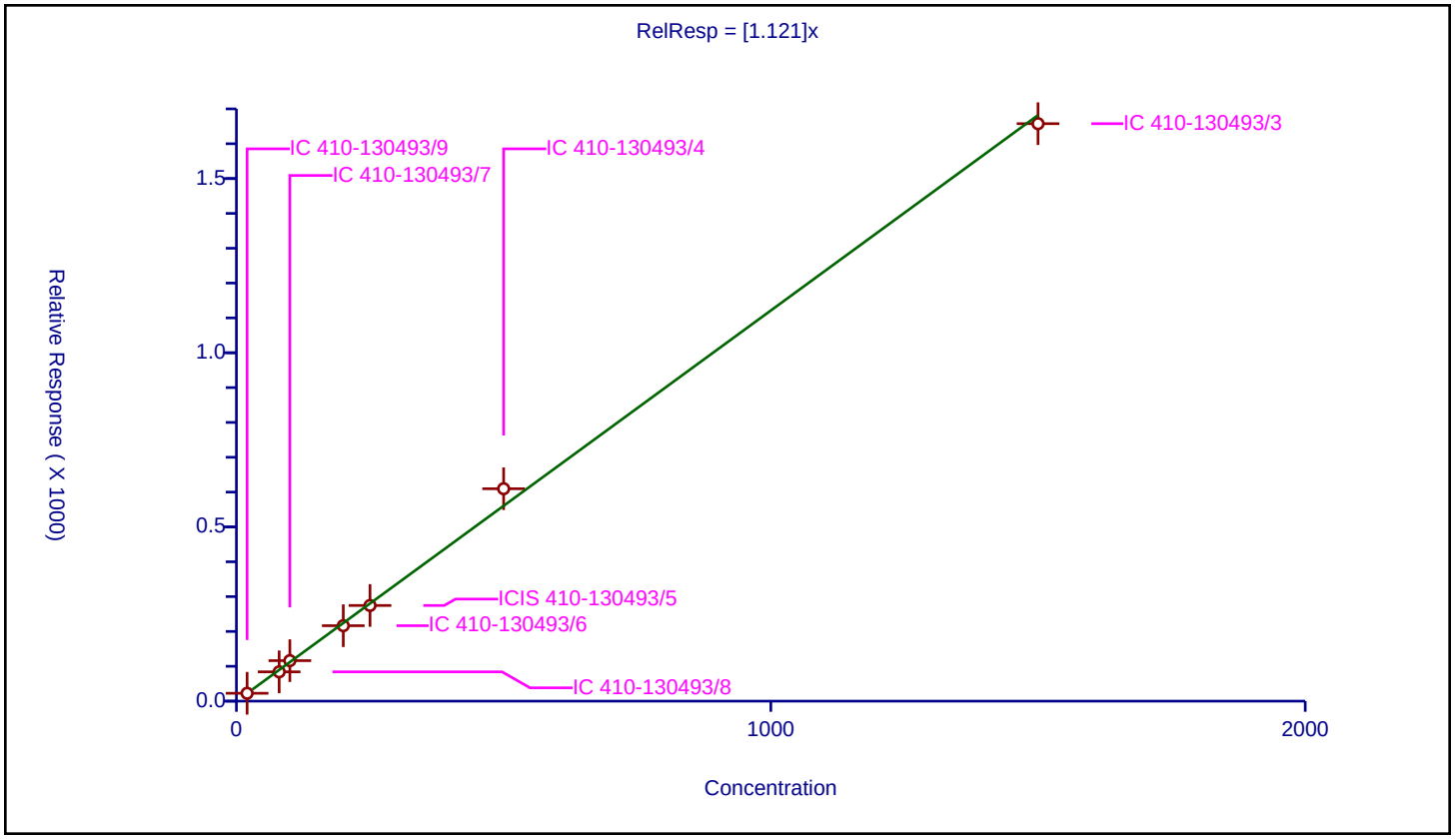
Curve Coefficients

Intercept:	0
Slope:	1.121

Error Coefficients

Standard Error:	948000
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 410-130493/9	20.0	22.583588	250.0	310181.0	1.129179	Y
2	IC 410-130493/8	80.0	84.130719	250.0	280082.0	1.051634	Y
3	IC 410-130493/7	100.0	116.244121	250.0	262181.0	1.162441	Y
4	IC 410-130493/6	200.0	216.557189	250.0	264743.0	1.082786	Y
5	ICIS 410-130493/5	250.0	274.587422	250.0	309457.0	1.09835	Y
6	IC 410-130493/4	500.0	609.700592	250.0	299023.0	1.219401	Y
7	IC 410-130493/3	1500.0	1657.565389	250.0	326163.0	1.105044	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

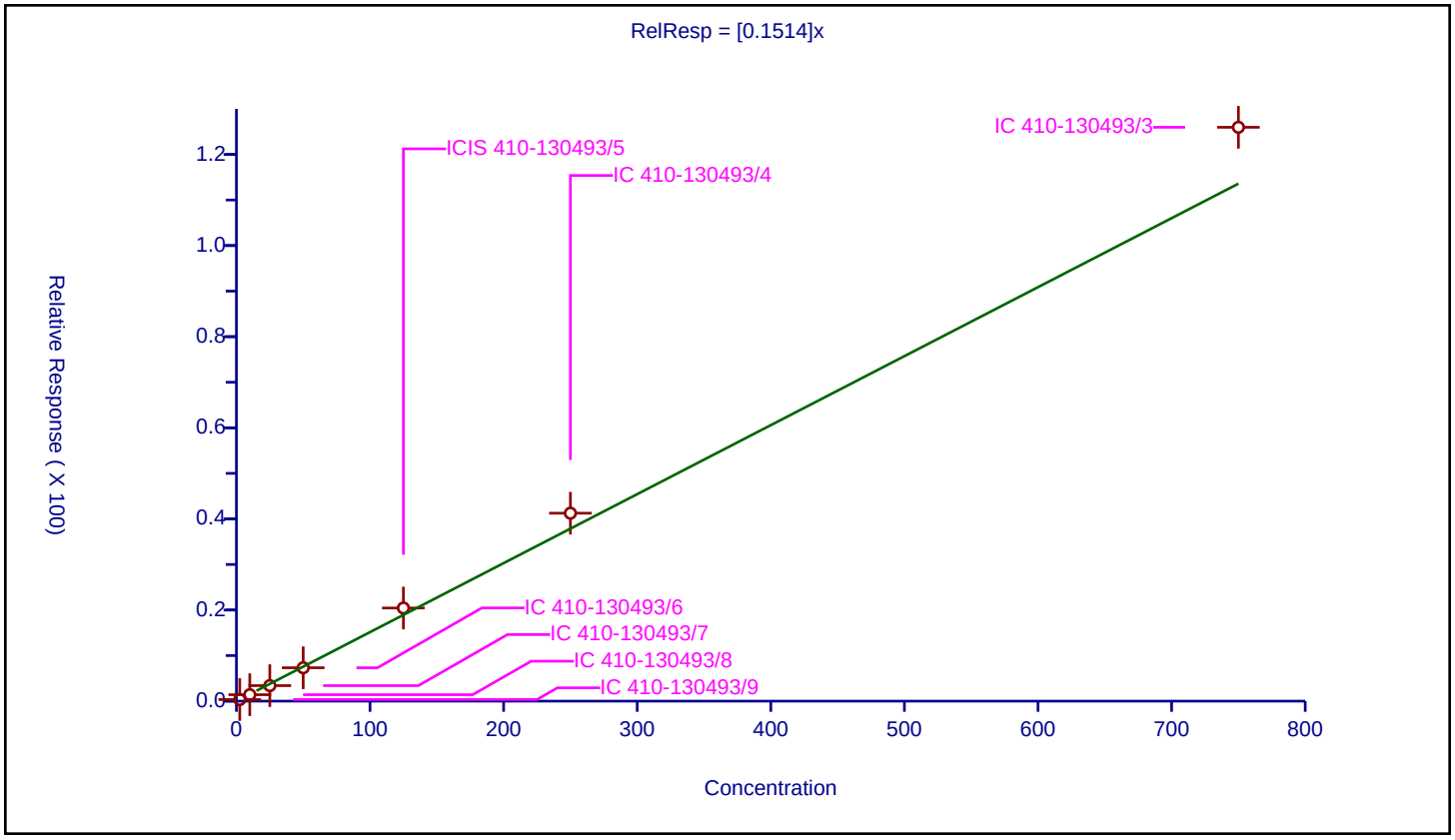
Curve Coefficients

Intercept:	0
Slope:	0.1514

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	2.5	0.349744	50.0	1227754.0	0.139898	Y
2	IC 410-130493/8	10.0	1.409021	50.0	1217051.0	0.140902	Y
3	IC 410-130493/7	25.0	3.407175	50.0	1208802.0	0.136287	Y
4	IC 410-130493/6	50.0	7.326972	50.0	1231491.0	0.146539	Y
5	ICIS 410-130493/5	125.0	20.442841	50.0	1268131.0	0.163543	Y
6	IC 410-130493/4	250.0	41.253923	50.0	1272662.0	0.165016	Y
7	IC 410-130493/3	750.0	125.962058	50.0	1283706.0	0.167949	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

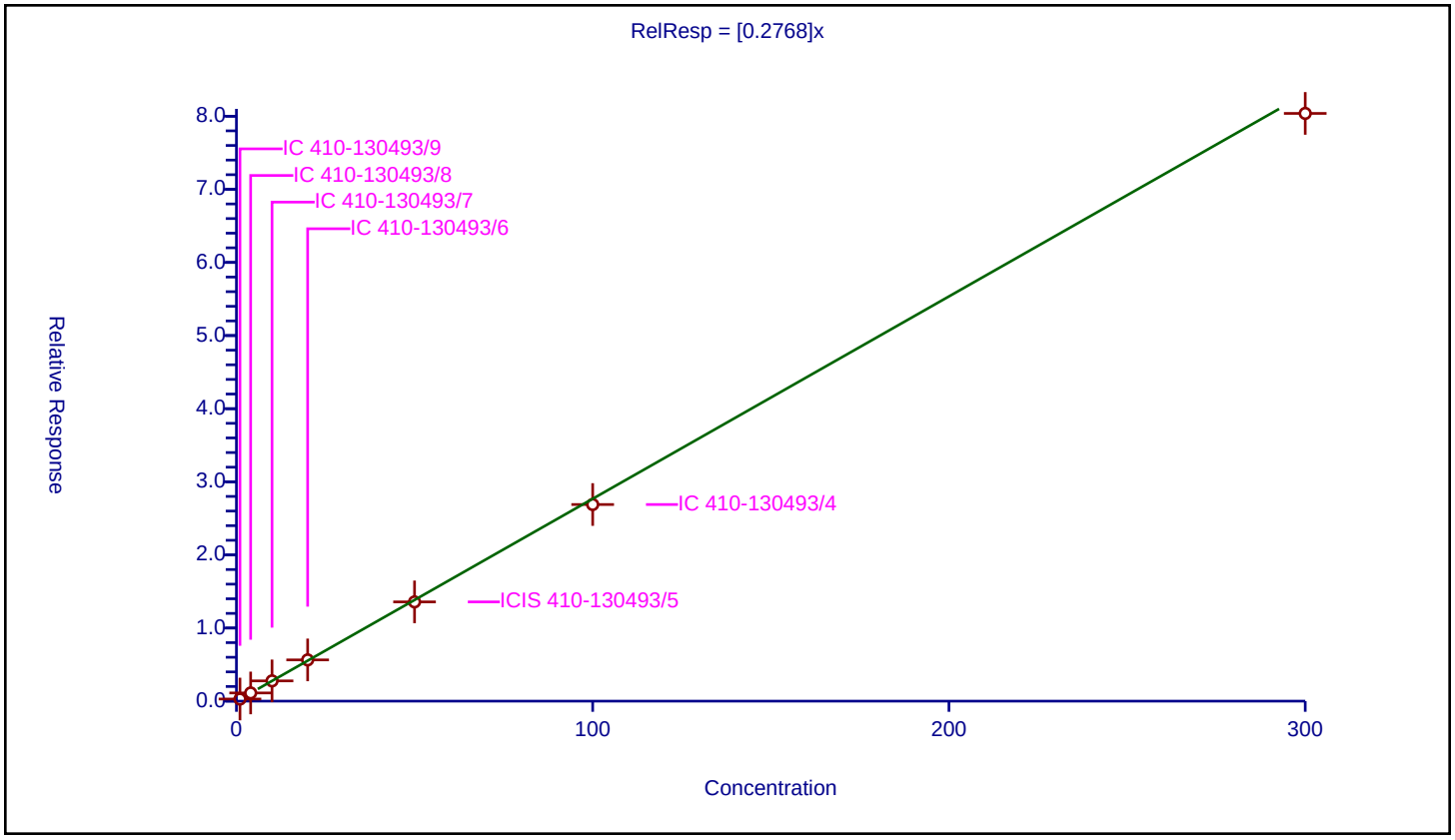
Curve Coefficients

Intercept:	0
Slope:	0.2768

Error Coefficients

Standard Error:	901000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.289797	50.0	1227754.0	0.289797	Y
2	IC 410-130493/8	4.0	1.120783	50.0	1217051.0	0.280196	Y
3	IC 410-130493/7	10.0	2.769312	50.0	1208802.0	0.276931	Y
4	IC 410-130493/6	20.0	5.640602	50.0	1231491.0	0.28203	Y
5	ICIS 410-130493/5	50.0	13.574741	50.0	1268131.0	0.271495	Y
6	IC 410-130493/4	100.0	26.891154	50.0	1272662.0	0.268912	Y
7	IC 410-130493/3	300.0	80.380554	50.0	1283706.0	0.267935	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

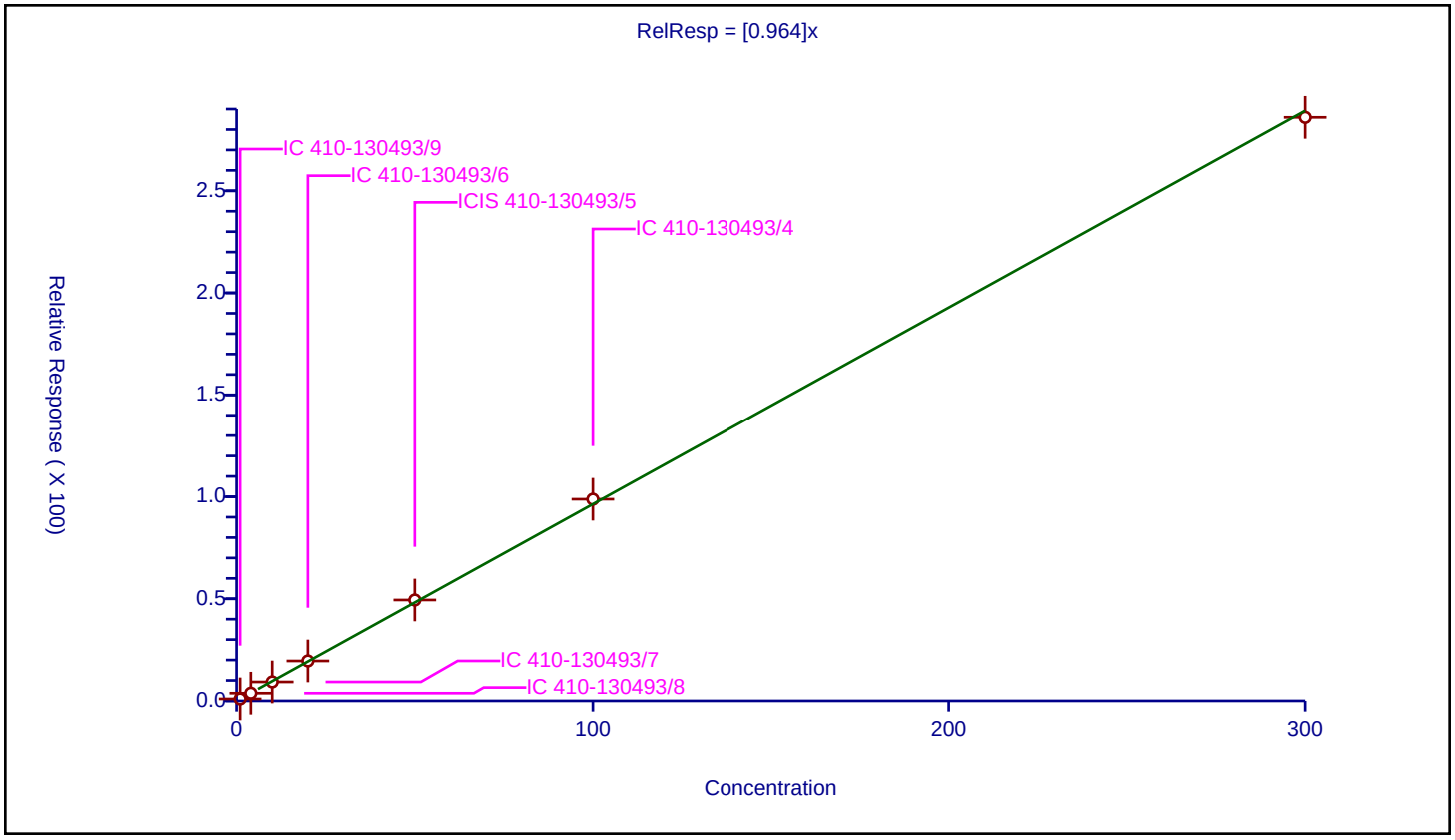
Curve Coefficients

Intercept:	0
Slope:	0.964

Error Coefficients

Standard Error:	3220000
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 410-130493/9	1.0	0.97377	50.0	1227754.0	0.97377	Y
2	IC 410-130493/8	4.0	3.764961	50.0	1217051.0	0.94124	Y
3	IC 410-130493/7	10.0	9.263138	50.0	1208802.0	0.926314	Y
4	IC 410-130493/6	20.0	19.544073	50.0	1231491.0	0.977204	Y
5	ICIS 410-130493/5	50.0	49.404833	50.0	1268131.0	0.988097	Y
6	IC 410-130493/4	100.0	98.799799	50.0	1272662.0	0.987998	Y
7	IC 410-130493/3	300.0	285.961233	50.0	1283706.0	0.953204	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

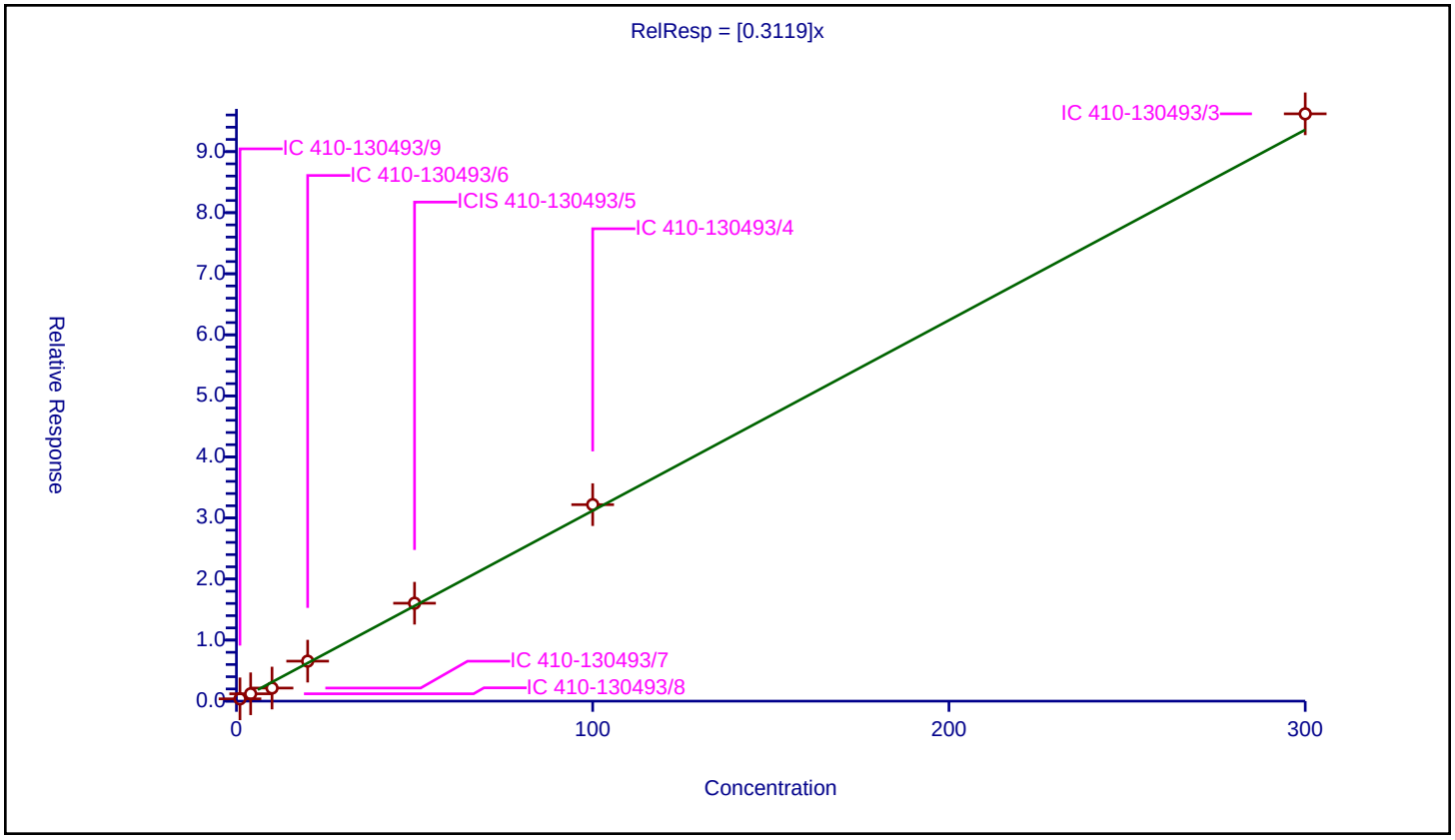
Curve Coefficients

Intercept:	0
Slope:	0.3119

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	15.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.377111	50.0	1227754.0	0.377111	Y
2	IC 410-130493/8	4.0	1.205003	50.0	1217051.0	0.301251	Y
3	IC 410-130493/7	10.0	2.142162	50.0	1208802.0	0.214216	Y
4	IC 410-130493/6	20.0	6.551936	50.0	1231491.0	0.327597	Y
5	ICIS 410-130493/5	50.0	16.038446	50.0	1268131.0	0.320769	Y
6	IC 410-130493/4	100.0	32.184076	50.0	1272662.0	0.321841	Y
7	IC 410-130493/3	300.0	96.192158	50.0	1283706.0	0.320641	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

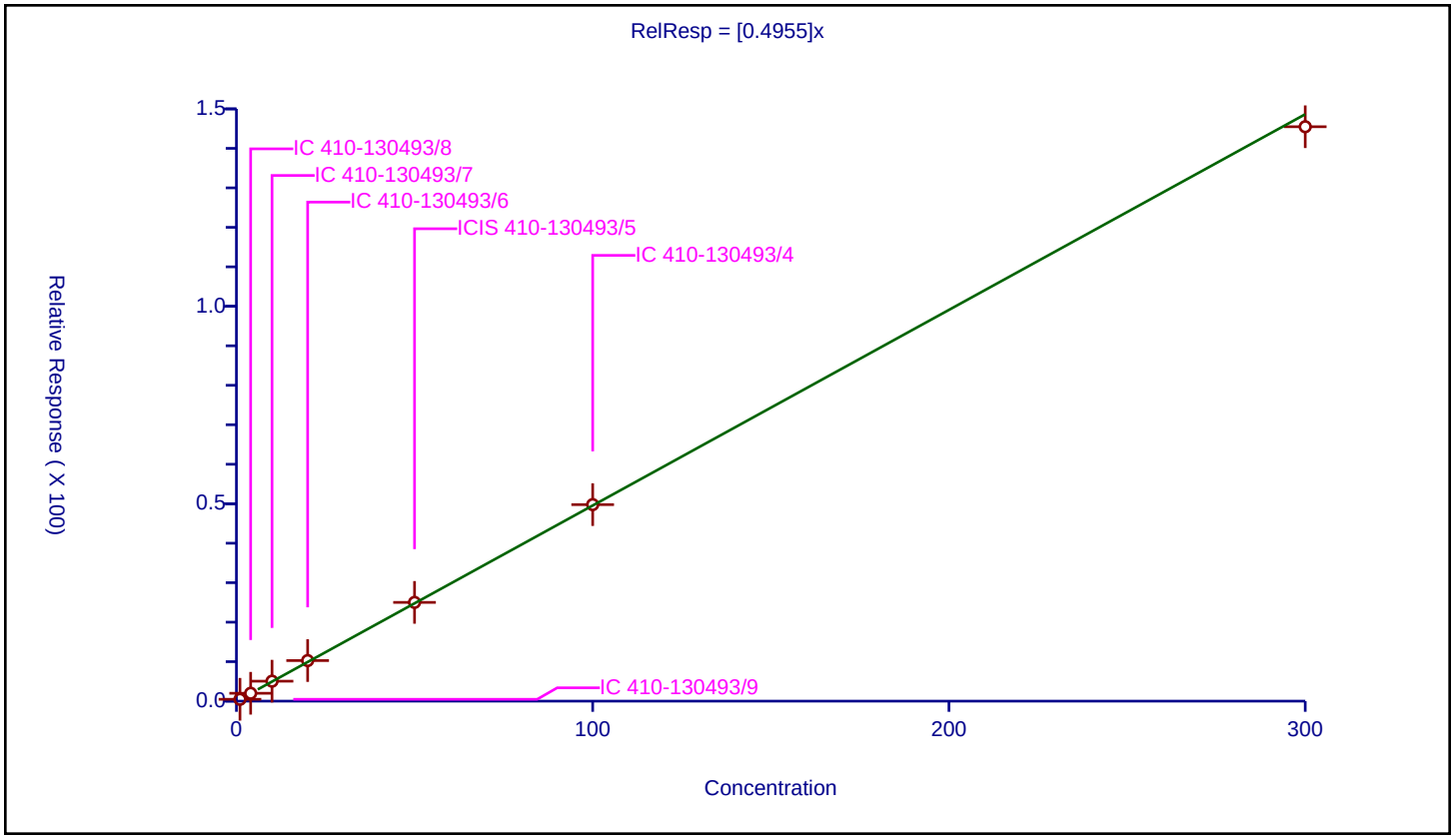
Curve Coefficients

Intercept:	0
Slope:	0.4955

Error Coefficients

Standard Error:	1630000
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 410-130493/9	1.0	0.468213	50.0	1227754.0	0.468213	Y
2	IC 410-130493/8	4.0	1.991453	50.0	1217051.0	0.497863	Y
3	IC 410-130493/7	10.0	5.053723	50.0	1208802.0	0.505372	Y
4	IC 410-130493/6	20.0	10.278232	50.0	1231491.0	0.513912	Y
5	ICIS 410-130493/5	50.0	25.006841	50.0	1268131.0	0.500137	Y
6	IC 410-130493/4	100.0	49.775588	50.0	1272662.0	0.497756	Y
7	IC 410-130493/3	300.0	145.480507	50.0	1283706.0	0.484935	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

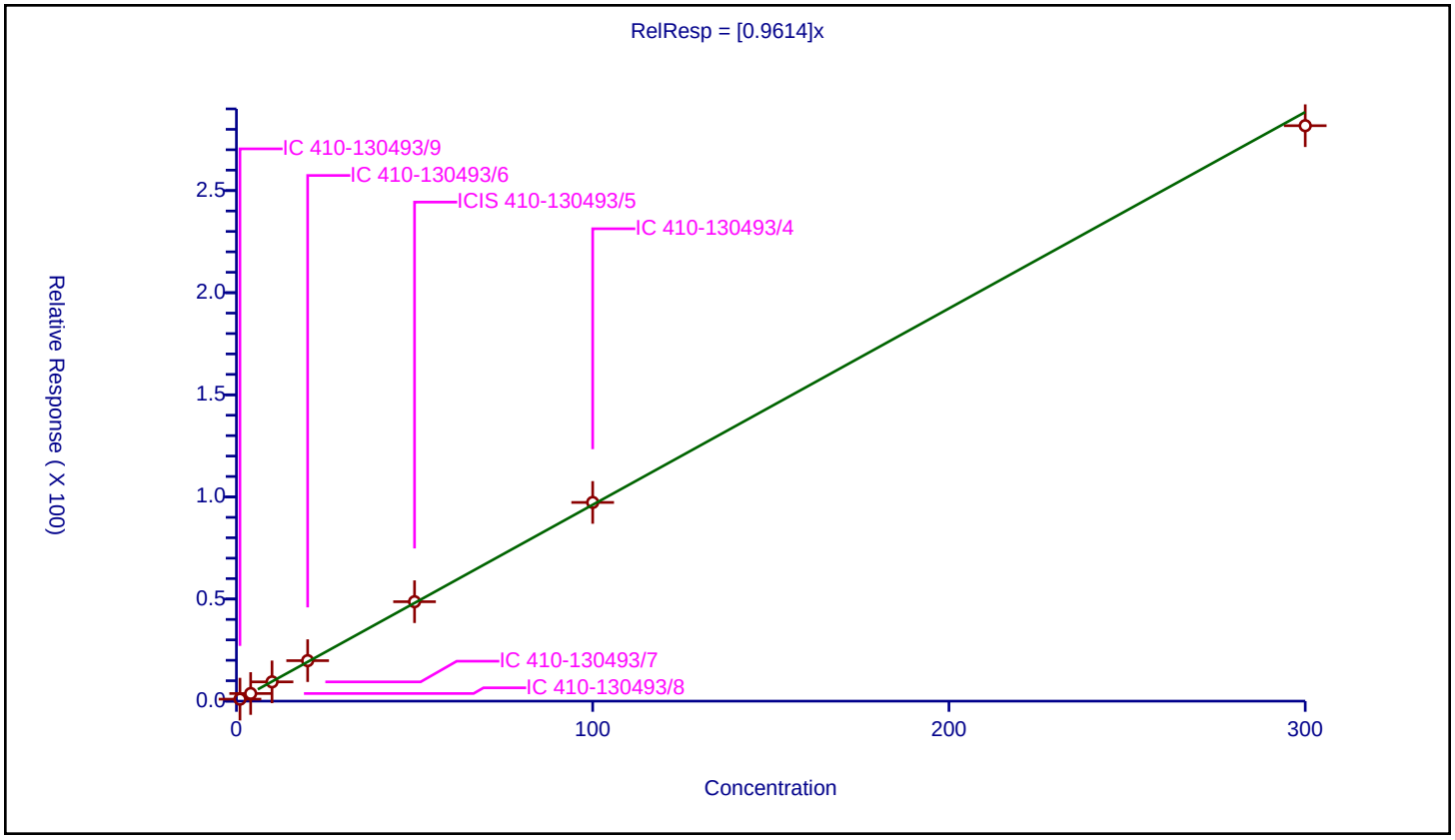
Curve Coefficients

Intercept:	0
Slope:	0.9614

Error Coefficients

Standard Error:	3170000
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 410-130493/9	1.0	0.976091	50.0	1227754.0	0.976091	Y
2	IC 410-130493/8	4.0	3.73115	50.0	1217051.0	0.932788	Y
3	IC 410-130493/7	10.0	9.439511	50.0	1208802.0	0.943951	Y
4	IC 410-130493/6	20.0	19.825155	50.0	1231491.0	0.991258	Y
5	ICIS 410-130493/5	50.0	48.692446	50.0	1268131.0	0.973849	Y
6	IC 410-130493/4	100.0	97.292722	50.0	1272662.0	0.972927	Y
7	IC 410-130493/3	300.0	281.768255	50.0	1283706.0	0.939228	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

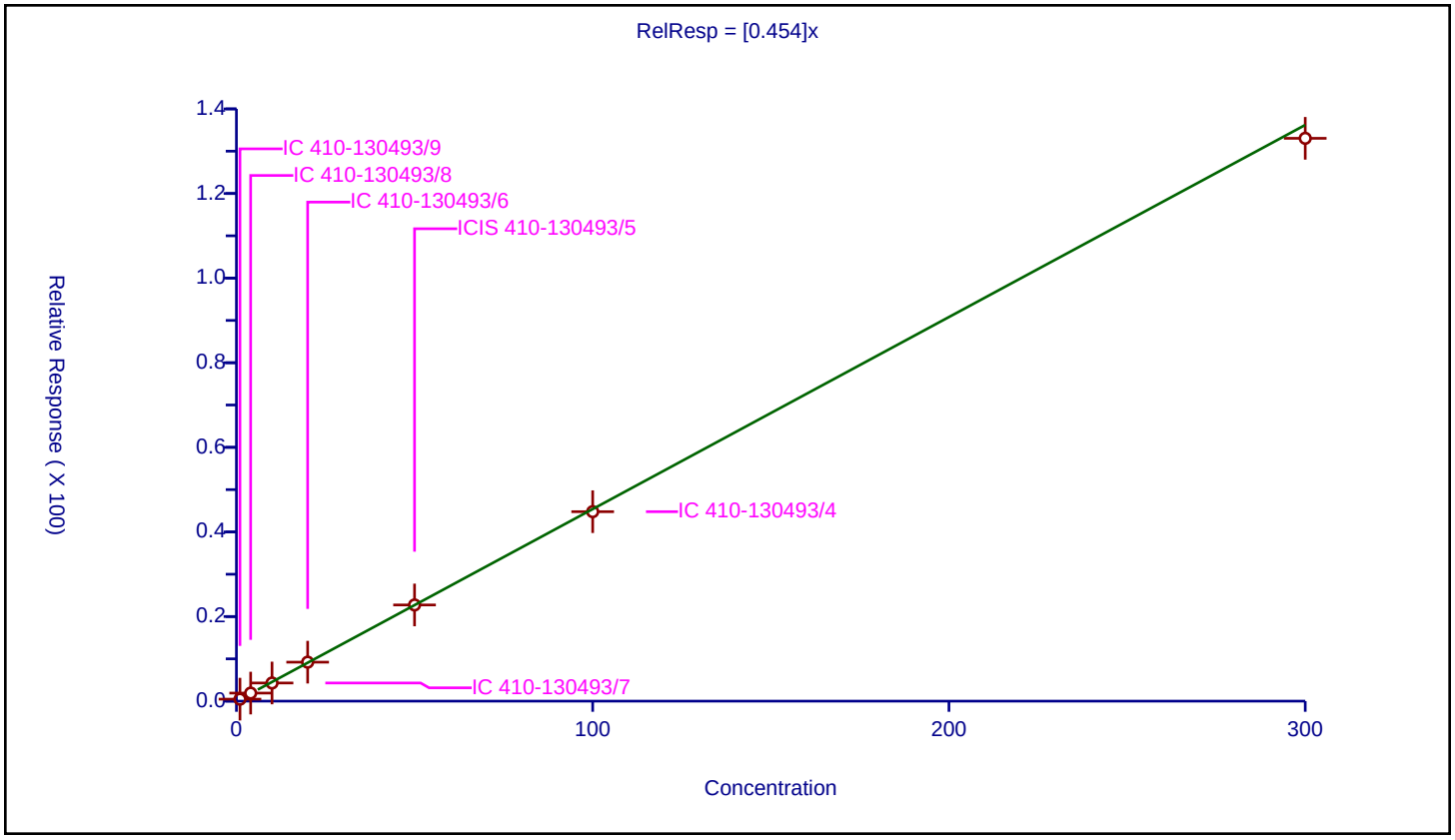
Curve Coefficients

Intercept:	0
Slope:	0.454

Error Coefficients

Standard Error:	1490000
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 410-130493/9	1.0	0.466054	50.0	1227754.0	0.466054	Y
2	IC 410-130493/8	4.0	1.904809	50.0	1217051.0	0.476202	Y
3	IC 410-130493/7	10.0	4.289205	50.0	1208802.0	0.428921	Y
4	IC 410-130493/6	20.0	9.21103	50.0	1231491.0	0.460551	Y
5	ICIS 410-130493/5	50.0	22.738345	50.0	1268131.0	0.454767	Y
6	IC 410-130493/4	100.0	44.788011	50.0	1272662.0	0.44788	Y
7	IC 410-130493/3	300.0	133.045923	50.0	1283706.0	0.443486	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

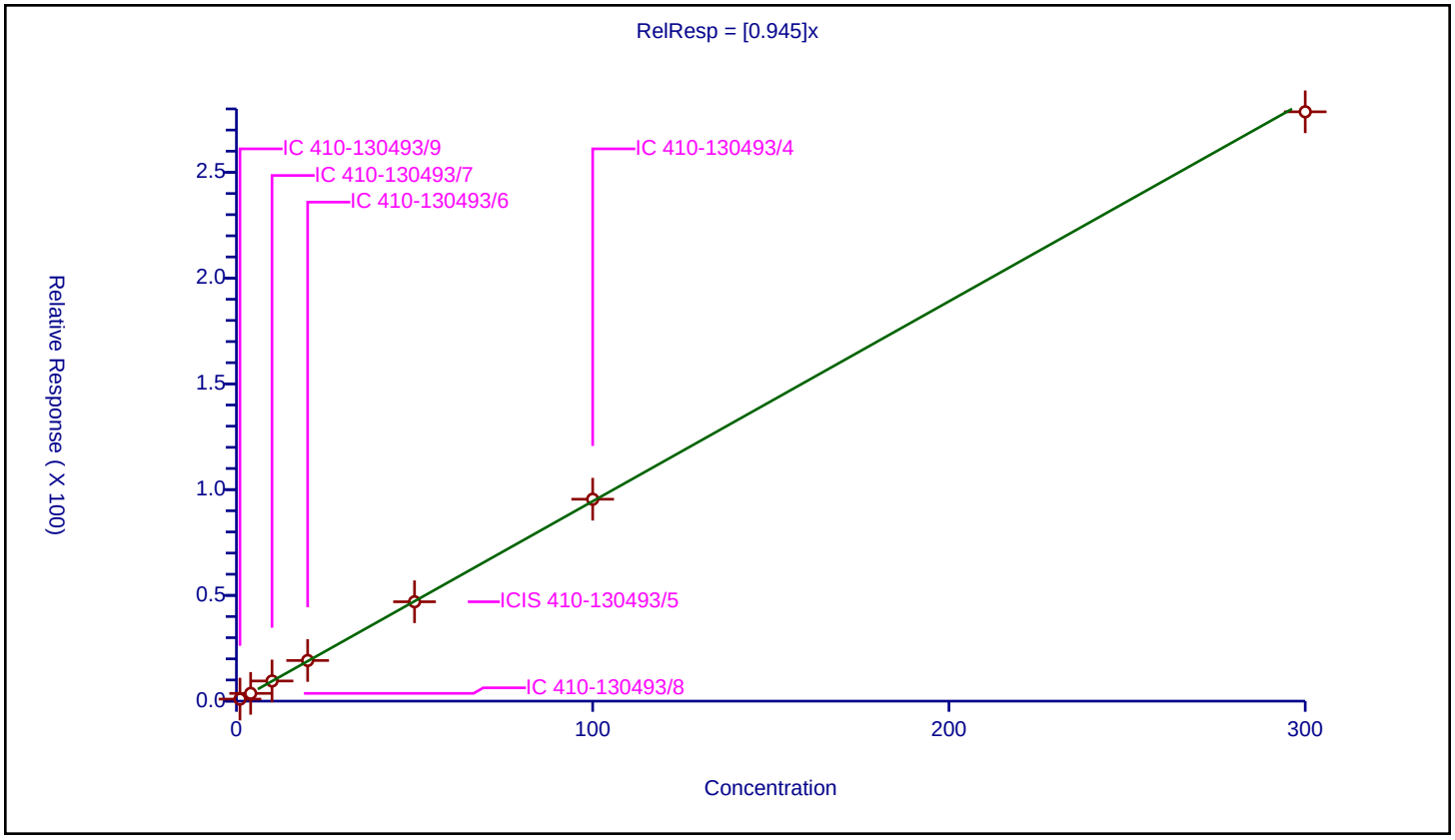
Curve Coefficients

Intercept:	0
Slope:	0.945

Error Coefficients

Standard Error:	3130000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.958498	50.0	1227754.0	0.958498	Y
2	IC 410-130493/8	4.0	3.67577	50.0	1217051.0	0.918943	Y
3	IC 410-130493/7	10.0	9.531007	50.0	1208802.0	0.953101	Y
4	IC 410-130493/6	20.0	19.222755	50.0	1231491.0	0.961138	Y
5	ICIS 410-130493/5	50.0	46.981936	50.0	1268131.0	0.939639	Y
6	IC 410-130493/4	100.0	95.464585	50.0	1272662.0	0.954646	Y
7	IC 410-130493/3	300.0	278.628401	50.0	1283706.0	0.928761	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

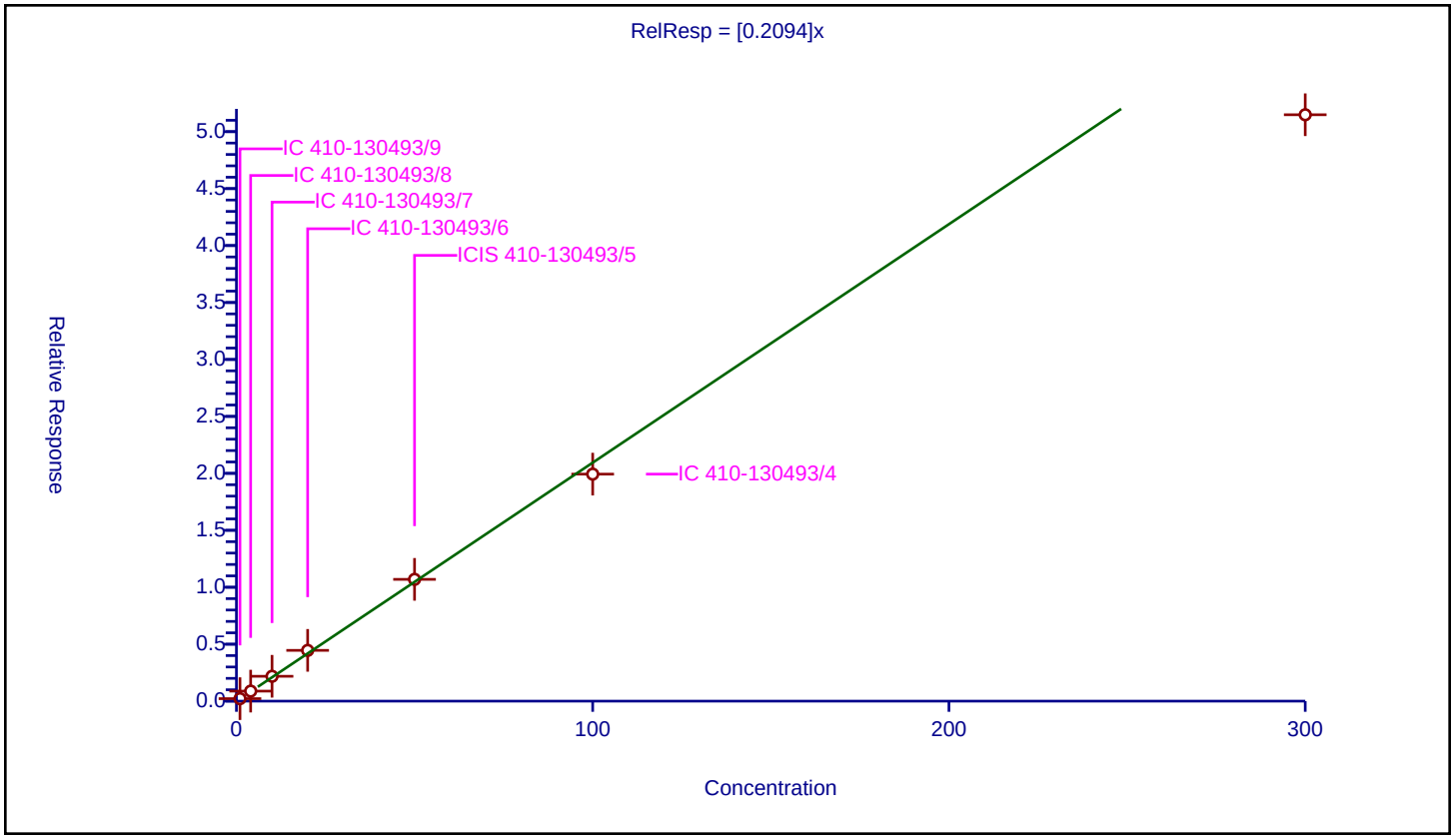
Curve Coefficients

Intercept:	0
Slope:	0.2094

Error Coefficients

Standard Error:	591000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.219384	50.0	1227754.0	0.219384	Y
2	IC 410-130493/8	4.0	0.881557	50.0	1217051.0	0.220389	Y
3	IC 410-130493/7	10.0	2.182574	50.0	1208802.0	0.218257	Y
4	IC 410-130493/6	20.0	4.457158	50.0	1231491.0	0.222858	Y
5	ICIS 410-130493/5	50.0	10.692626	50.0	1268131.0	0.213853	Y
6	IC 410-130493/4	100.0	19.932512	50.0	1272662.0	0.199325	Y
7	IC 410-130493/3	300.0	51.484569	50.0	1283706.0	0.171615	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

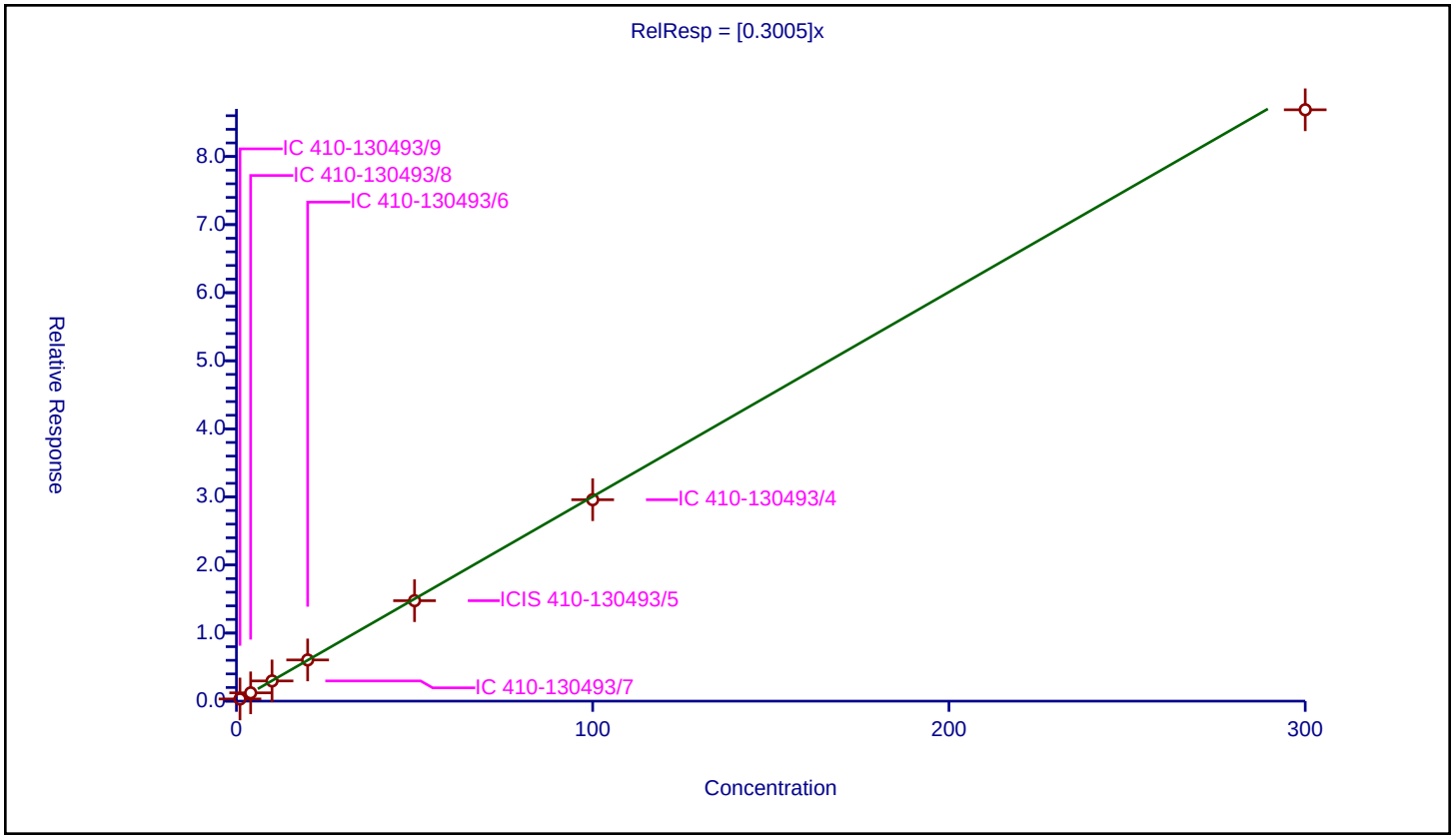
Curve Coefficients

Intercept:	0
Slope:	0.3005

Error Coefficients

Standard Error:	975000
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 410-130493/9	1.0	0.319241	50.0	1227754.0	0.319241	Y
2	IC 410-130493/8	4.0	1.217821	50.0	1217051.0	0.304455	Y
3	IC 410-130493/7	10.0	2.966408	50.0	1208802.0	0.296641	Y
4	IC 410-130493/6	20.0	6.051648	50.0	1231491.0	0.302582	Y
5	ICIS 410-130493/5	50.0	14.757545	50.0	1268131.0	0.295151	Y
6	IC 410-130493/4	100.0	29.5881	50.0	1272662.0	0.295881	Y
7	IC 410-130493/3	300.0	86.870475	50.0	1283706.0	0.289568	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

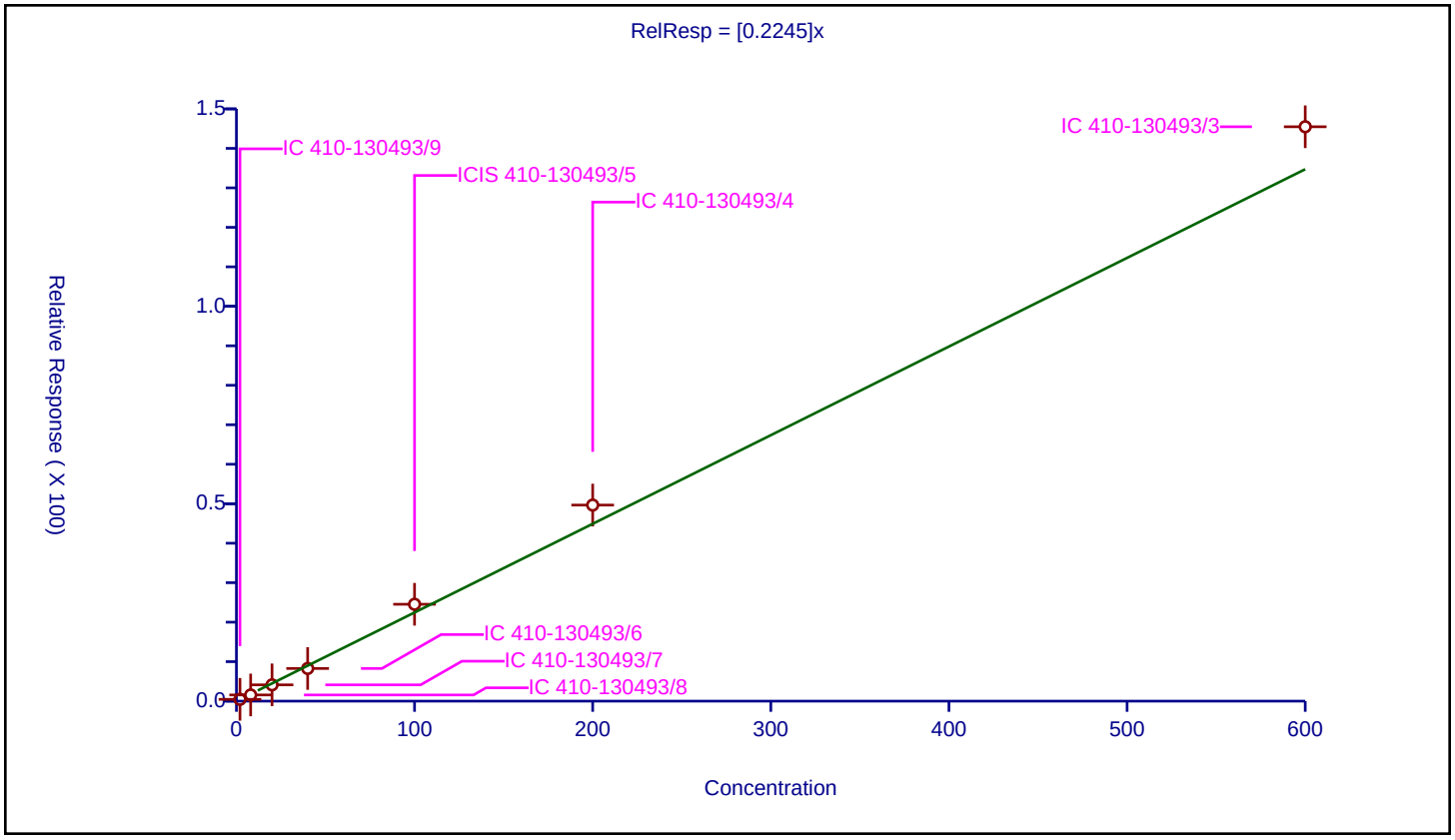
Curve Coefficients

Intercept:	0
Slope:	0.2245

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	2.0	0.452086	50.0	1227754.0	0.226043	Y
2	IC 410-130493/8	8.0	1.571339	50.0	1217051.0	0.196417	Y
3	IC 410-130493/7	20.0	4.124207	50.0	1208802.0	0.20621	Y
4	IC 410-130493/6	40.0	8.274238	50.0	1231491.0	0.206856	Y
5	ICIS 410-130493/5	100.0	24.539618	50.0	1268131.0	0.245396	Y
6	IC 410-130493/4	200.0	49.657843	50.0	1272662.0	0.248289	Y
7	IC 410-130493/3	600.0	145.476729	50.0	1283706.0	0.242461	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

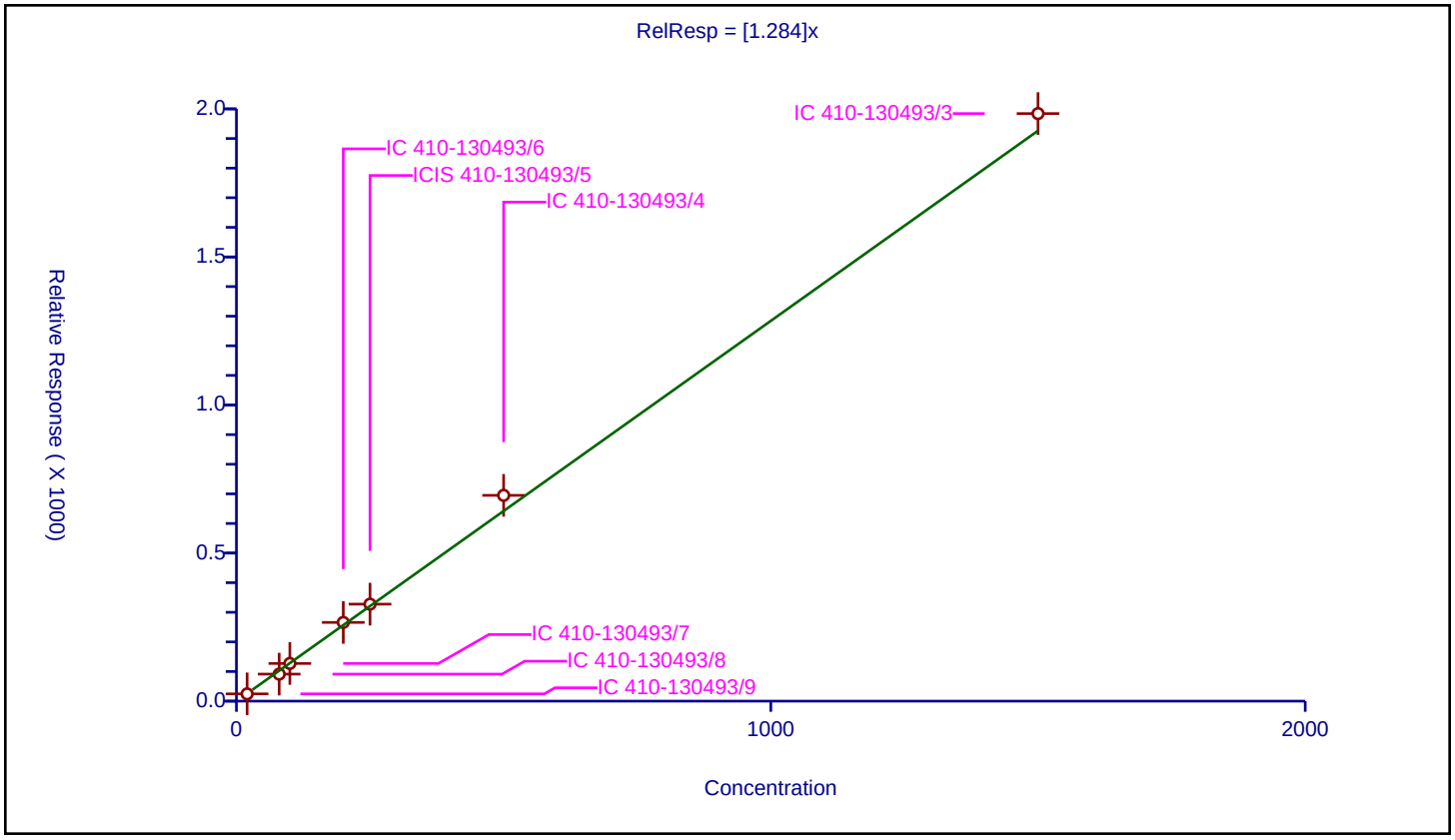
Curve Coefficients

Intercept:	0
Slope:	1.284

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	20.0	24.476032	250.0	310181.0	1.223802	Y
2	IC 410-130493/8	80.0	91.283089	250.0	280082.0	1.141039	Y
3	IC 410-130493/7	100.0	127.259412	250.0	262181.0	1.272594	Y
4	IC 410-130493/6	200.0	265.811561	250.0	264743.0	1.329058	Y
5	ICIS 410-130493/5	250.0	327.489764	250.0	309457.0	1.309959	Y
6	IC 410-130493/4	500.0	694.93651	250.0	299023.0	1.389873	Y
7	IC 410-130493/3	1500.0	1984.195786	250.0	326163.0	1.322797	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

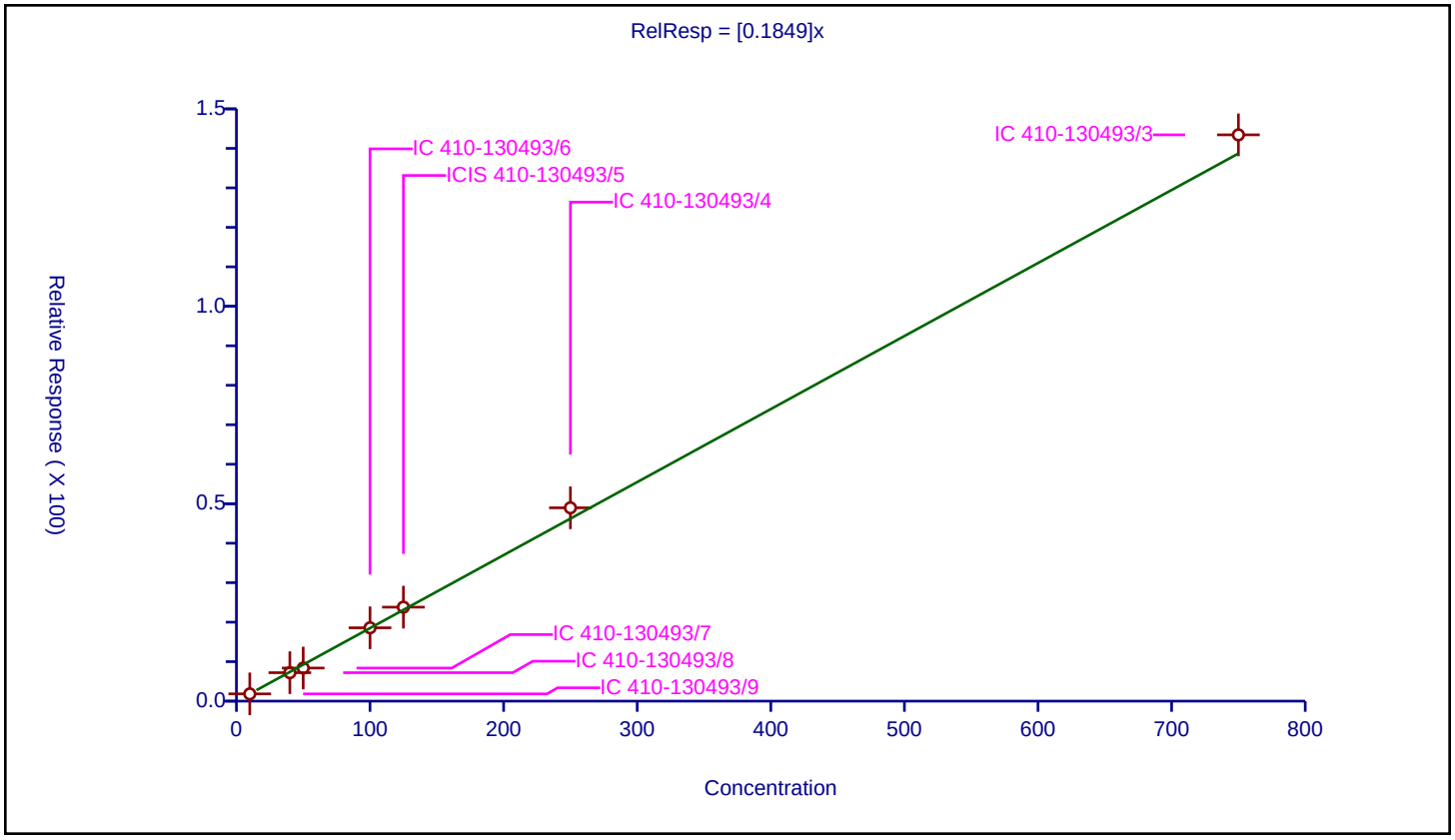
Curve Coefficients

Intercept:	0
Slope:	0.1849

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	10.0	1.83518	50.0	1227754.0	0.183518	Y
2	IC 410-130493/8	40.0	7.206313	50.0	1217051.0	0.180158	Y
3	IC 410-130493/7	50.0	8.380984	50.0	1208802.0	0.16762	Y
4	IC 410-130493/6	100.0	18.572202	50.0	1231491.0	0.185722	Y
5	ICIS 410-130493/5	125.0	23.802904	50.0	1268131.0	0.190423	Y
6	IC 410-130493/4	250.0	48.960054	50.0	1272662.0	0.19584	Y
7	IC 410-130493/3	750.0	143.427	50.0	1283706.0	0.191236	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

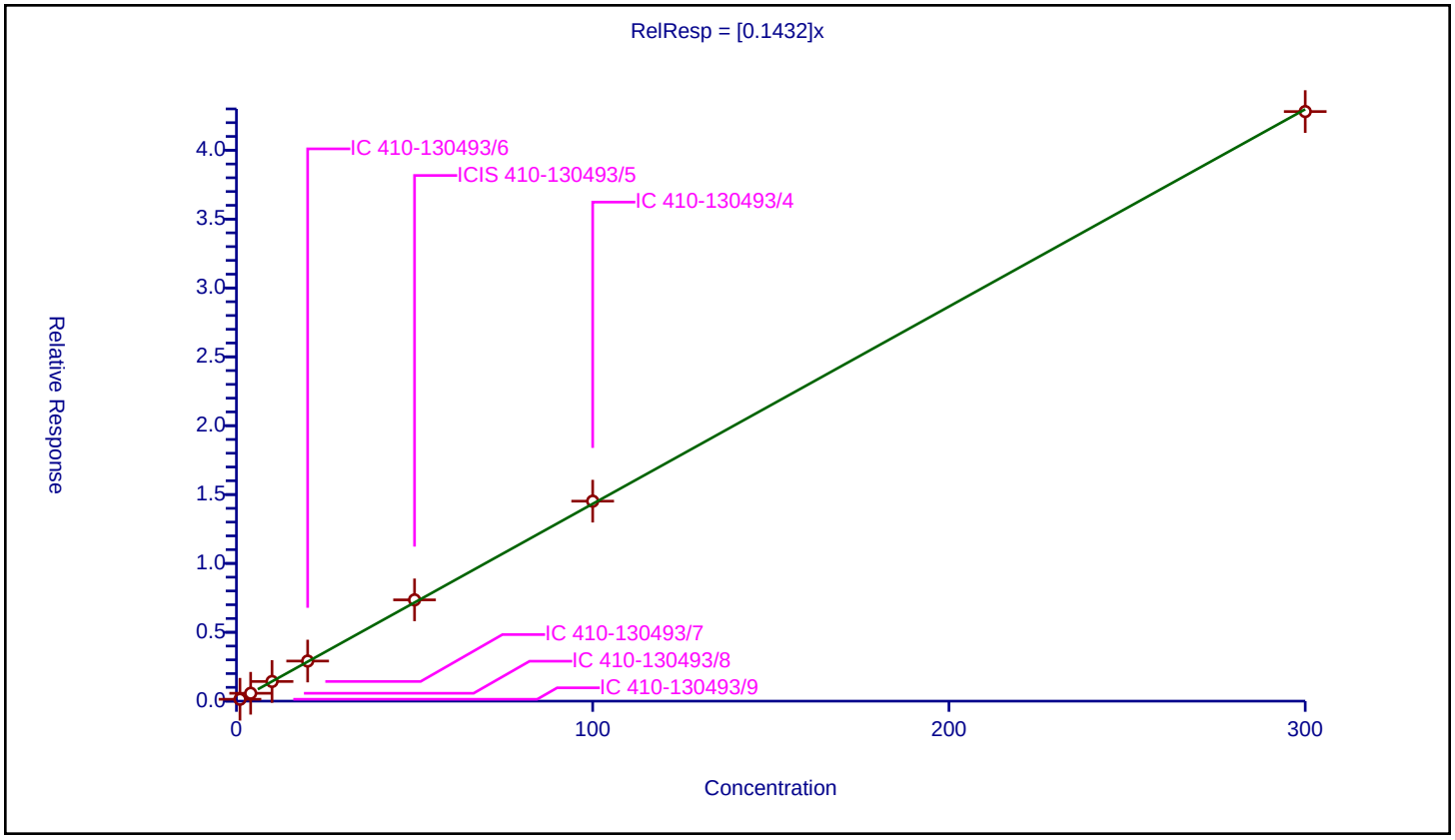
Curve Coefficients

Intercept:	0
Slope:	0.1432

Error Coefficients

Standard Error:	481000
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 410-130493/9	1.0	0.136713	50.0	1227754.0	0.136713	Y
2	IC 410-130493/8	4.0	0.570518	50.0	1217051.0	0.14263	Y
3	IC 410-130493/7	10.0	1.428853	50.0	1208802.0	0.142885	Y
4	IC 410-130493/6	20.0	2.910456	50.0	1231491.0	0.145523	Y
5	ICIS 410-130493/5	50.0	7.352513	50.0	1268131.0	0.14705	Y
6	IC 410-130493/4	100.0	14.51992	50.0	1272662.0	0.145199	Y
7	IC 410-130493/3	300.0	42.806258	50.0	1283706.0	0.142688	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

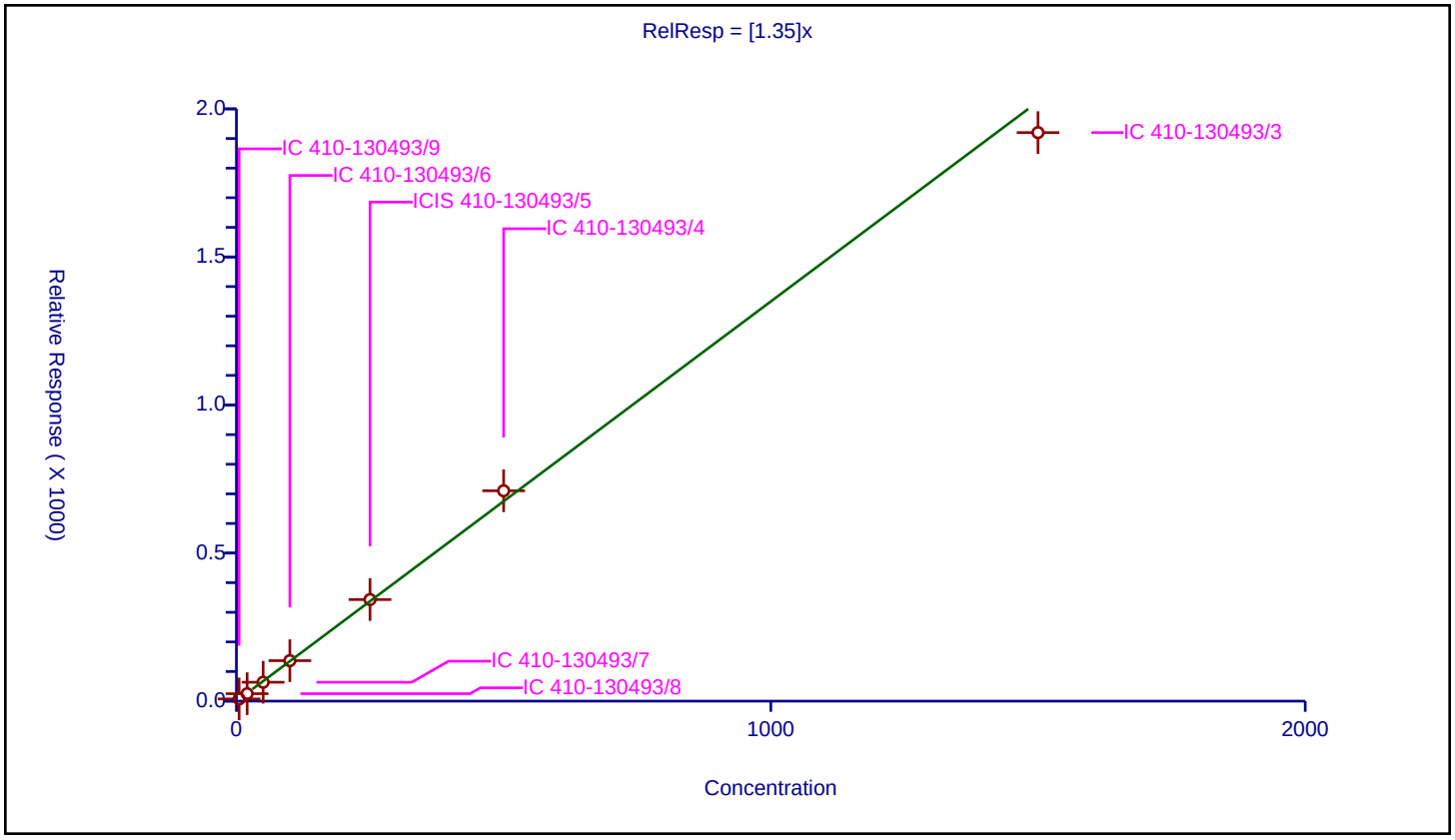
Curve Coefficients

Intercept:	0
Slope:	1.35

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	5.0	7.38198	250.0	310181.0	1.476396	Y
2	IC 410-130493/8	20.0	25.111396	250.0	280082.0	1.25557	Y
3	IC 410-130493/7	50.0	63.823275	250.0	262181.0	1.276465	Y
4	IC 410-130493/6	100.0	136.65045	250.0	264743.0	1.366504	Y
5	ICIS 410-130493/5	250.0	343.00242	250.0	309457.0	1.37201	Y
6	IC 410-130493/4	500.0	710.430301	250.0	299023.0	1.420861	Y
7	IC 410-130493/3	1500.0	1919.948768	250.0	326163.0	1.279966	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

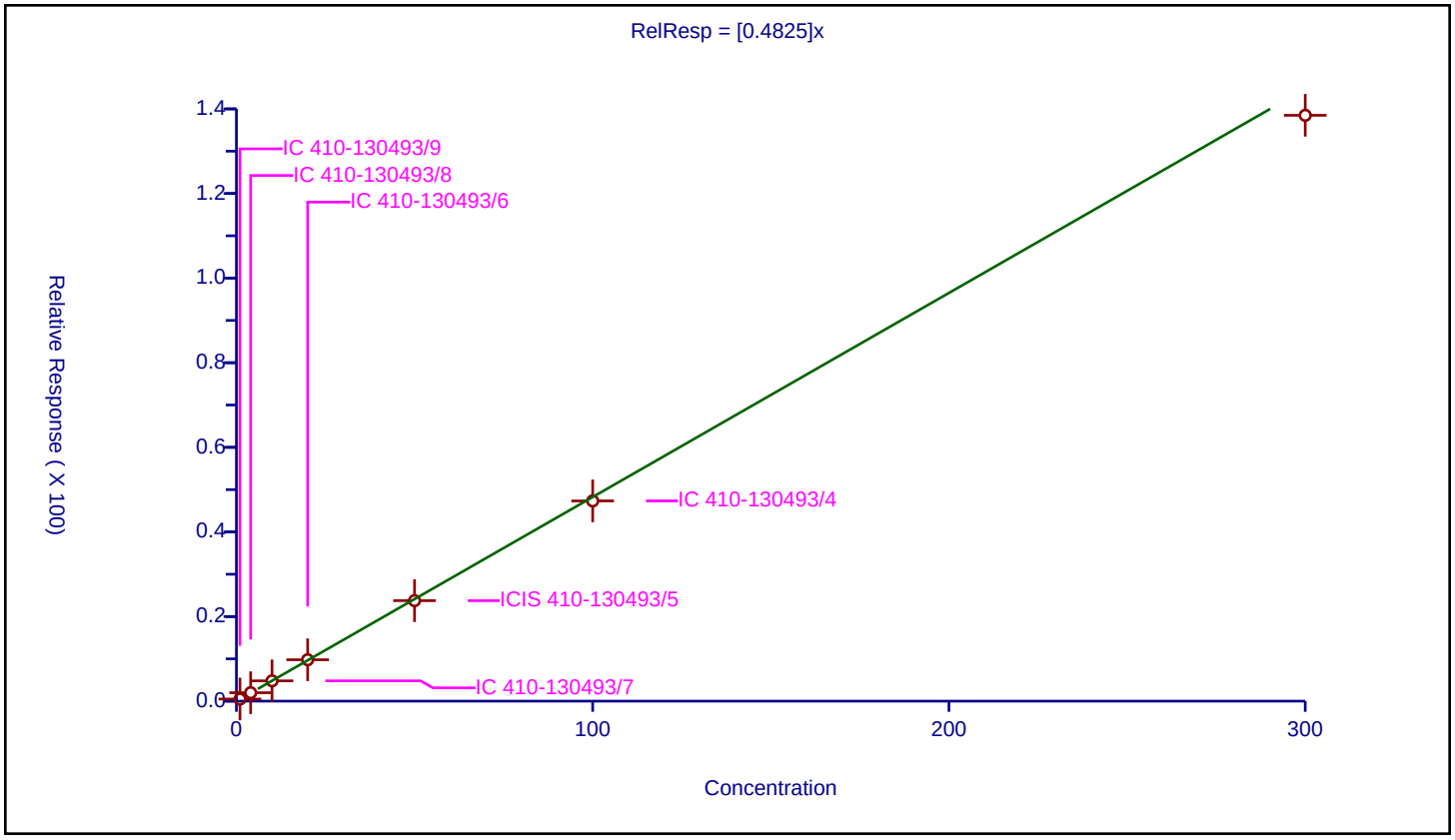
Curve Coefficients

Intercept:	0
Slope:	0.4825

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.499082	50.0	1227754.0	0.499082	Y
2	IC 410-130493/8	4.0	1.993631	50.0	1217051.0	0.498408	Y
3	IC 410-130493/7	10.0	4.803516	50.0	1208802.0	0.480352	Y
4	IC 410-130493/6	20.0	9.789069	50.0	1231491.0	0.489453	Y
5	ICIS 410-130493/5	50.0	23.752002	50.0	1268131.0	0.47504	Y
6	IC 410-130493/4	100.0	47.331735	50.0	1272662.0	0.473317	Y
7	IC 410-130493/3	300.0	138.481825	50.0	1283706.0	0.461606	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

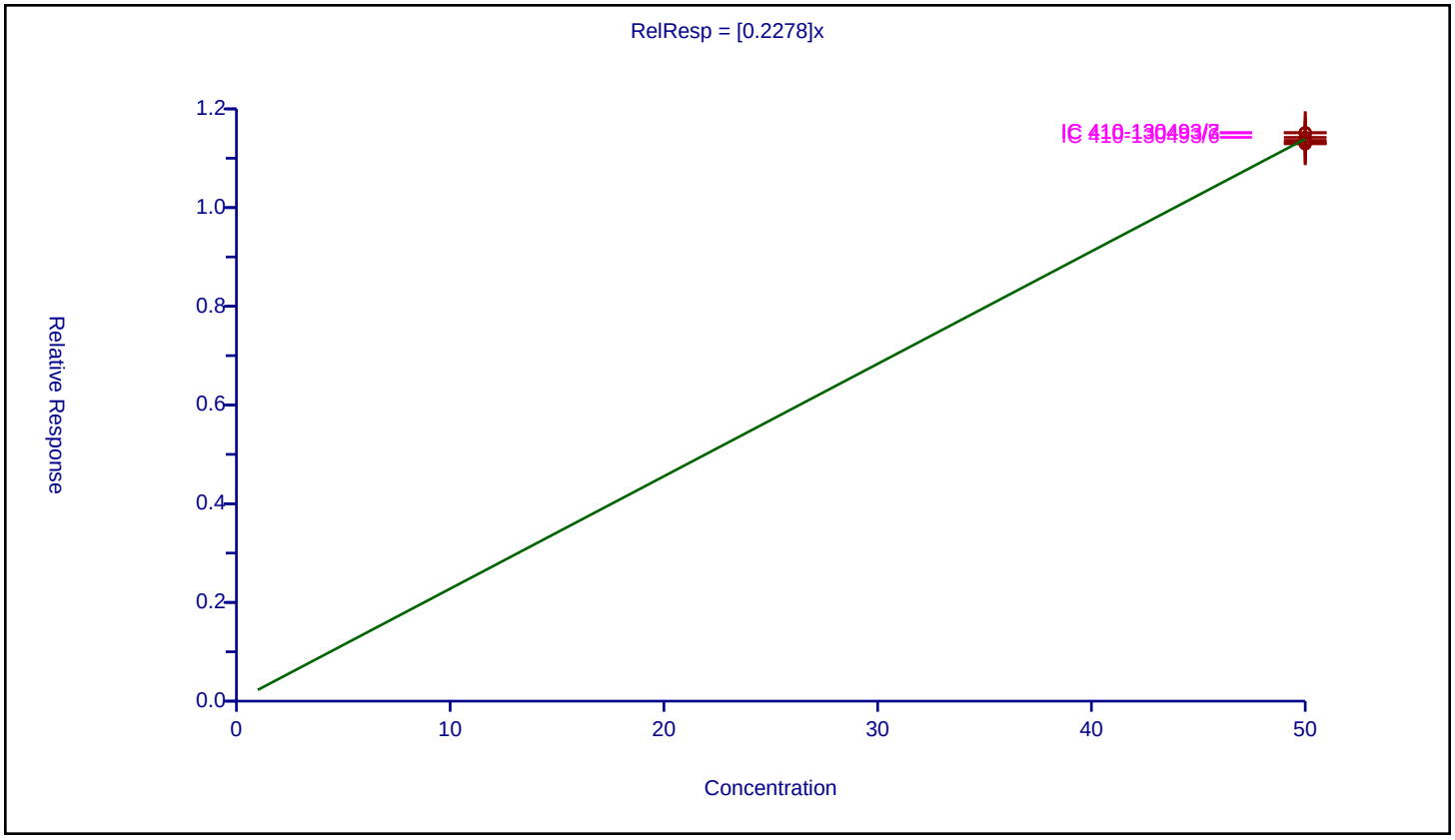
Curve Coefficients

Intercept:	0
Slope:	0.2278

Error Coefficients

Standard Error:	306000
Relative Standard Error:	0.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/3	50.0	11.515292	50.0	1283706.0	0.230306	Y
2	IC 410-130493/4	50.0	11.30308	50.0	1272662.0	0.226062	Y
3	ICIS 410-130493/5	50.0	11.322568	50.0	1268131.0	0.226451	Y
4	IC 410-130493/6	50.0	11.423348	50.0	1231491.0	0.228467	Y
5	IC 410-130493/7	50.0	11.517767	50.0	1208802.0	0.230355	Y
6	IC 410-130493/8	50.0	11.291515	50.0	1217051.0	0.22583	Y
7	IC 410-130493/9	50.0	11.362415	50.0	1227754.0	0.227248	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

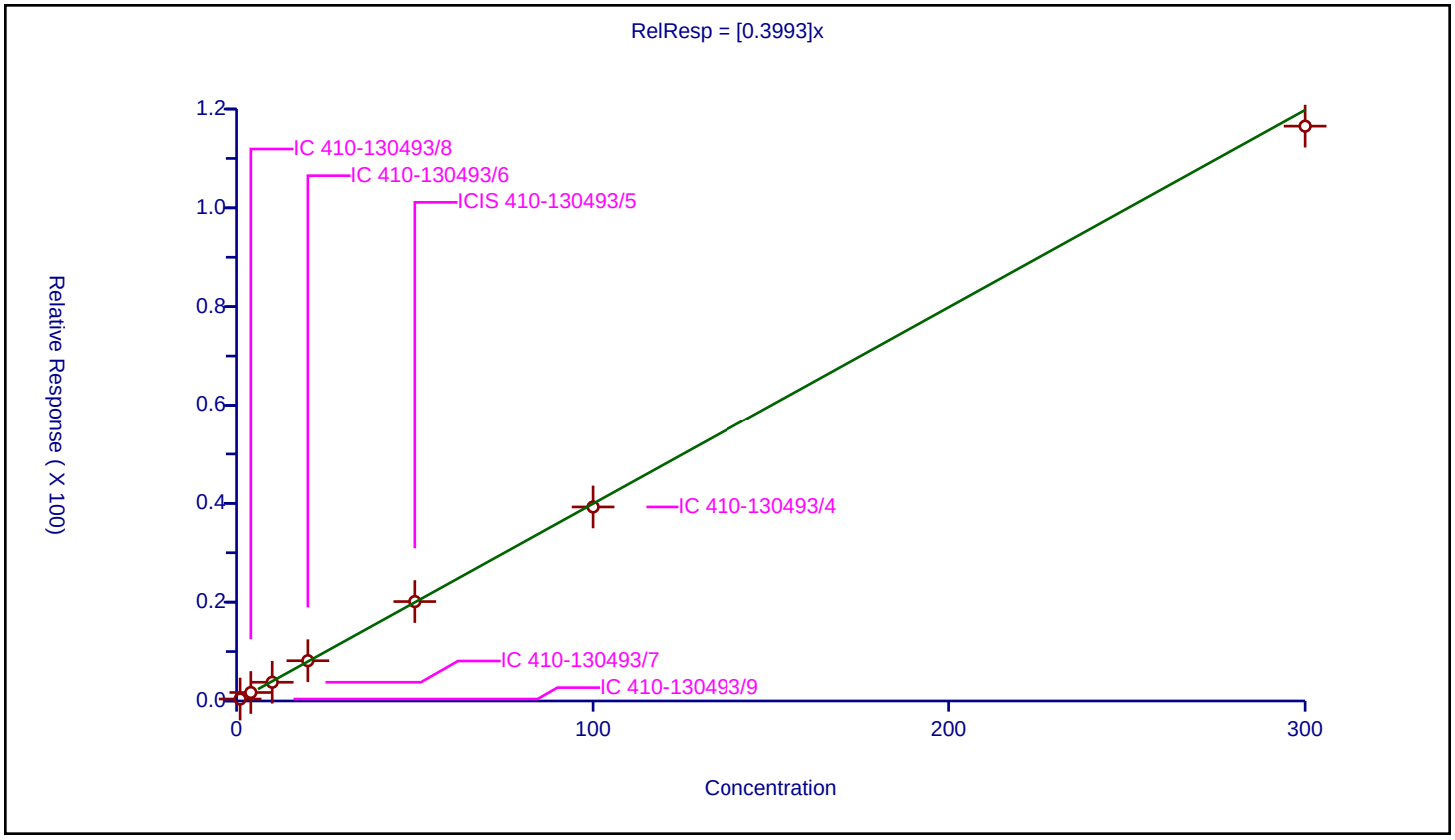
Curve Coefficients

Intercept:	0
Slope:	0.3993

Error Coefficients

Standard Error:	1310000
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 410-130493/9	1.0	0.395804	50.0	1227754.0	0.395804	Y
2	IC 410-130493/8	4.0	1.716937	50.0	1217051.0	0.429234	Y
3	IC 410-130493/7	10.0	3.791233	50.0	1208802.0	0.379123	Y
4	IC 410-130493/6	20.0	8.151054	50.0	1231491.0	0.407553	Y
5	ICIS 410-130493/5	50.0	20.122645	50.0	1268131.0	0.402453	Y
6	IC 410-130493/4	100.0	39.268871	50.0	1272662.0	0.392689	Y
7	IC 410-130493/3	300.0	116.533692	50.0	1283706.0	0.388446	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

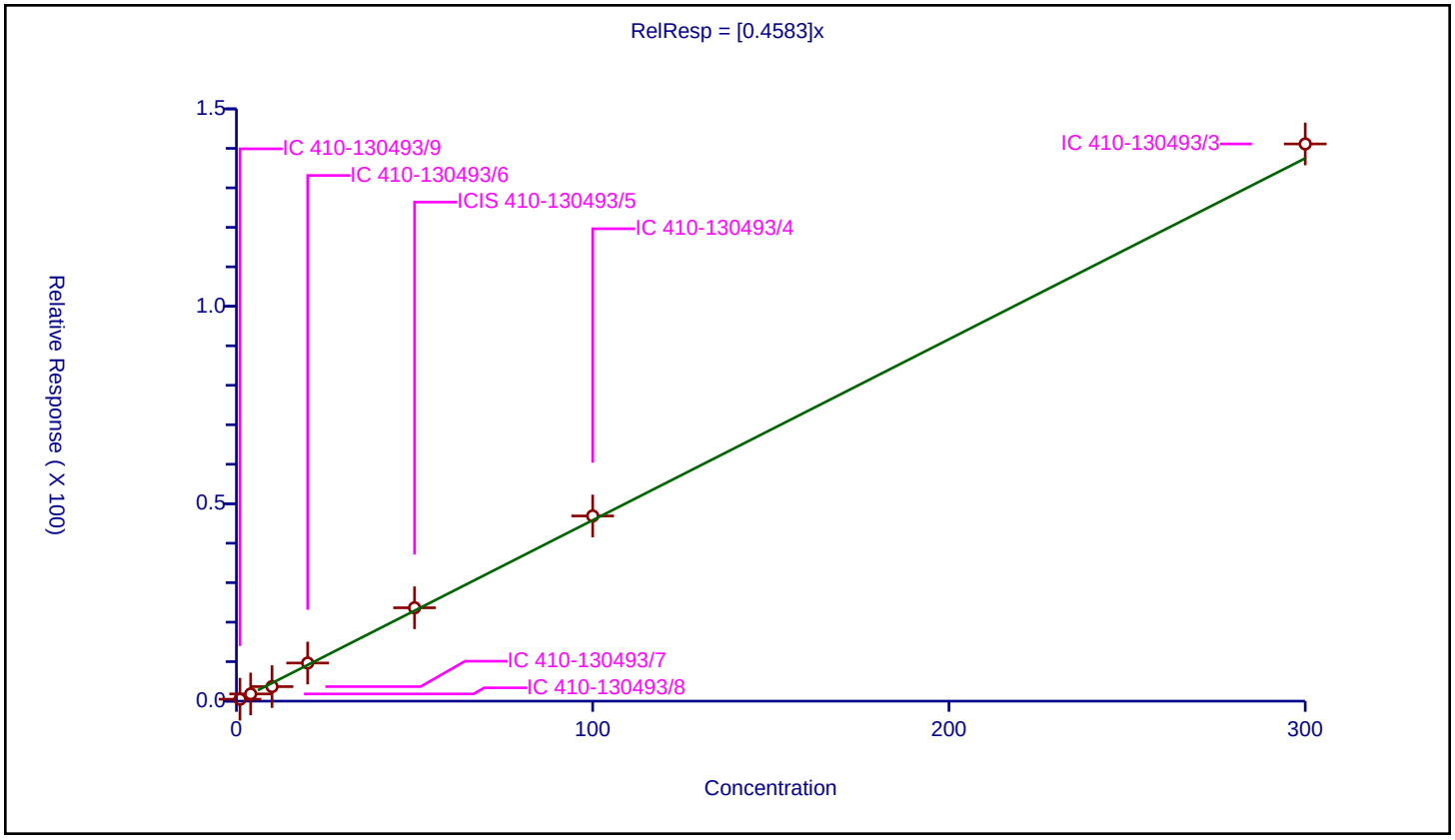
Curve Coefficients

Intercept:	0
Slope:	0.4583

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.488209	50.0	1227754.0	0.488209	Y
2	IC 410-130493/8	4.0	1.825848	50.0	1217051.0	0.456462	Y
3	IC 410-130493/7	10.0	3.678187	50.0	1208802.0	0.367819	Y
4	IC 410-130493/6	20.0	9.659145	50.0	1231491.0	0.482957	Y
5	ICIS 410-130493/5	50.0	23.647399	50.0	1268131.0	0.472948	Y
6	IC 410-130493/4	100.0	46.902752	50.0	1272662.0	0.469028	Y
7	IC 410-130493/3	300.0	141.124486	50.0	1283706.0	0.470415	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

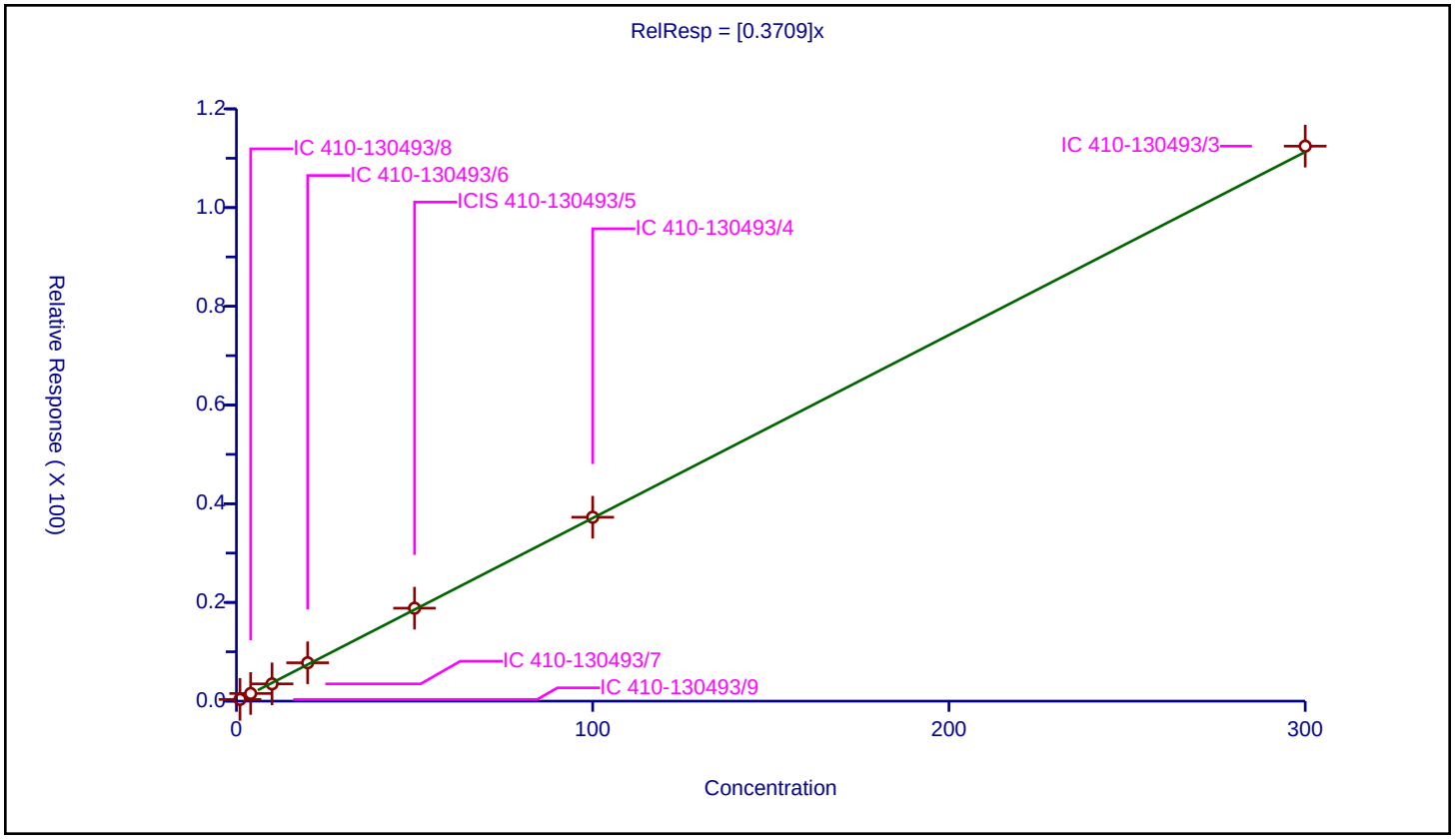
Curve Coefficients

Intercept:	0
Slope:	0.3709

Error Coefficients

Standard Error:	1260000
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 410-130493/9	1.0	0.346364	50.0	1227754.0	0.346364	Y
2	IC 410-130493/8	4.0	1.55014	50.0	1217051.0	0.387535	Y
3	IC 410-130493/7	10.0	3.497967	50.0	1208802.0	0.349797	Y
4	IC 410-130493/6	20.0	7.773423	50.0	1231491.0	0.388671	Y
5	ICIS 410-130493/5	50.0	18.833662	50.0	1268131.0	0.376673	Y
6	IC 410-130493/4	100.0	37.261072	50.0	1272662.0	0.372611	Y
7	IC 410-130493/3	300.0	112.449229	50.0	1283706.0	0.374831	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

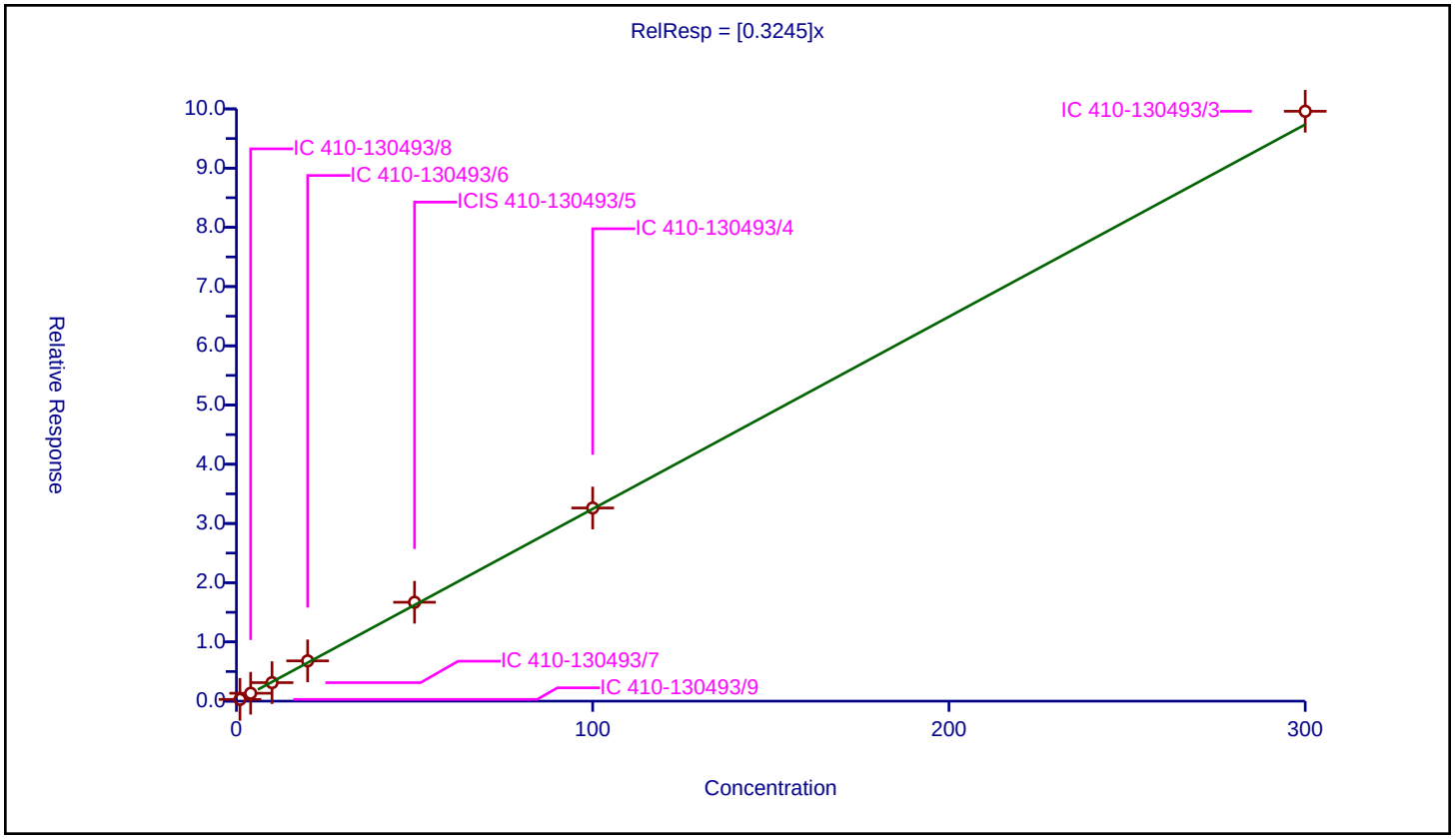
Curve Coefficients

Intercept:	0
Slope:	0.3245

Error Coefficients

Standard Error:	1110000
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 410-130493/9	1.0	0.294603	50.0	1227754.0	0.294603	Y
2	IC 410-130493/8	4.0	1.33162	50.0	1217051.0	0.332905	Y
3	IC 410-130493/7	10.0	3.123009	50.0	1208802.0	0.312301	Y
4	IC 410-130493/6	20.0	6.800009	50.0	1231491.0	0.34	Y
5	ICIS 410-130493/5	50.0	16.694608	50.0	1268131.0	0.333892	Y
6	IC 410-130493/4	100.0	32.614355	50.0	1272662.0	0.326144	Y
7	IC 410-130493/3	300.0	99.600532	50.0	1283706.0	0.332002	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

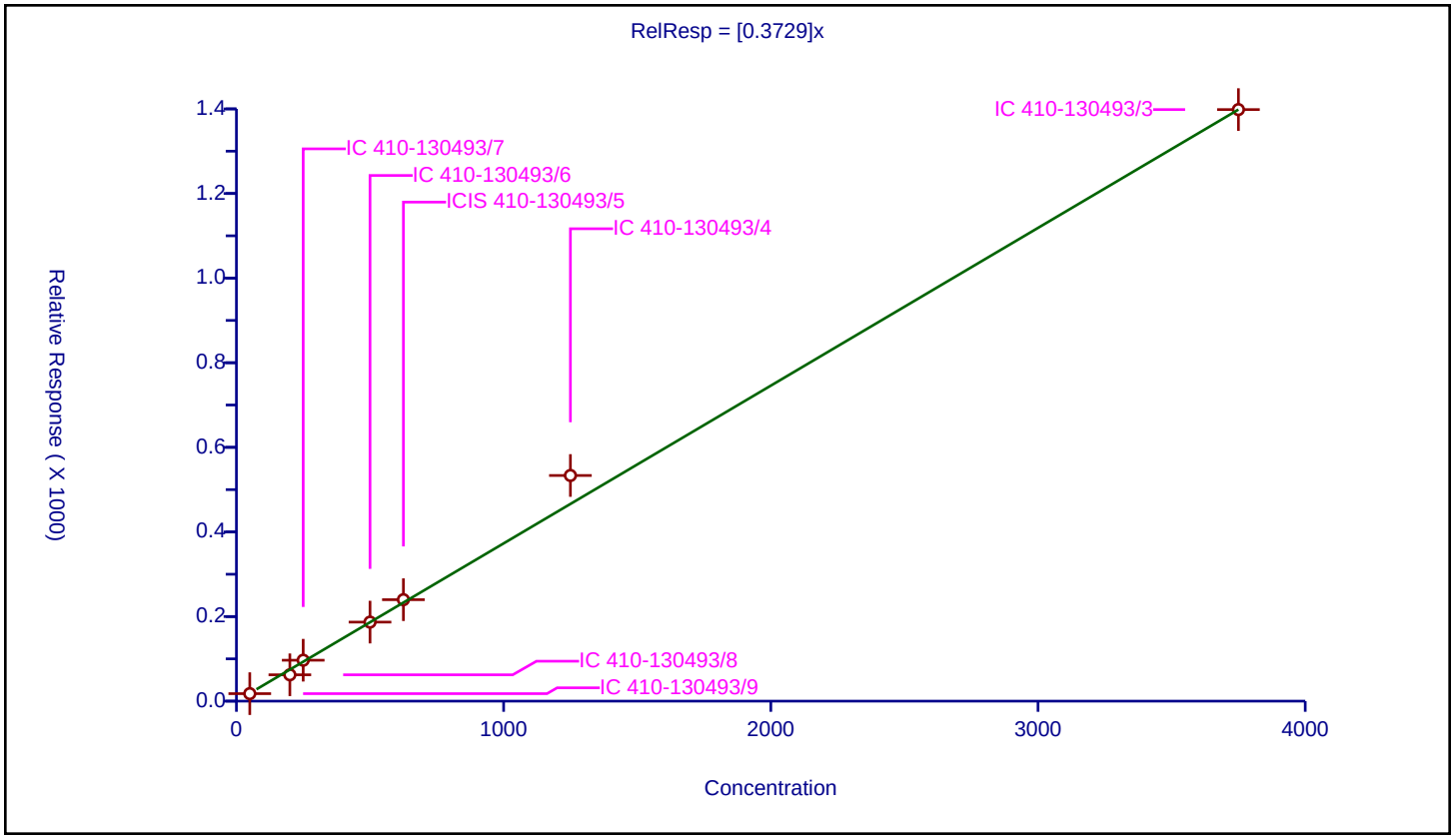
Curve Coefficients

Intercept:	0
Slope:	0.3729

Error Coefficients

Standard Error:	803000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	50.0	17.731583	250.0	310181.0	0.354632	Y
2	IC 410-130493/8	200.0	62.316572	250.0	280082.0	0.311583	Y
3	IC 410-130493/7	250.0	96.748048	250.0	262181.0	0.386992	Y
4	IC 410-130493/6	500.0	186.808528	250.0	264743.0	0.373617	Y
5	ICIS 410-130493/5	625.0	239.861273	250.0	309457.0	0.383778	Y
6	IC 410-130493/4	1250.0	533.41549	250.0	299023.0	0.426732	Y
7	IC 410-130493/3	3750.0	1398.375965	250.0	326163.0	0.3729	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

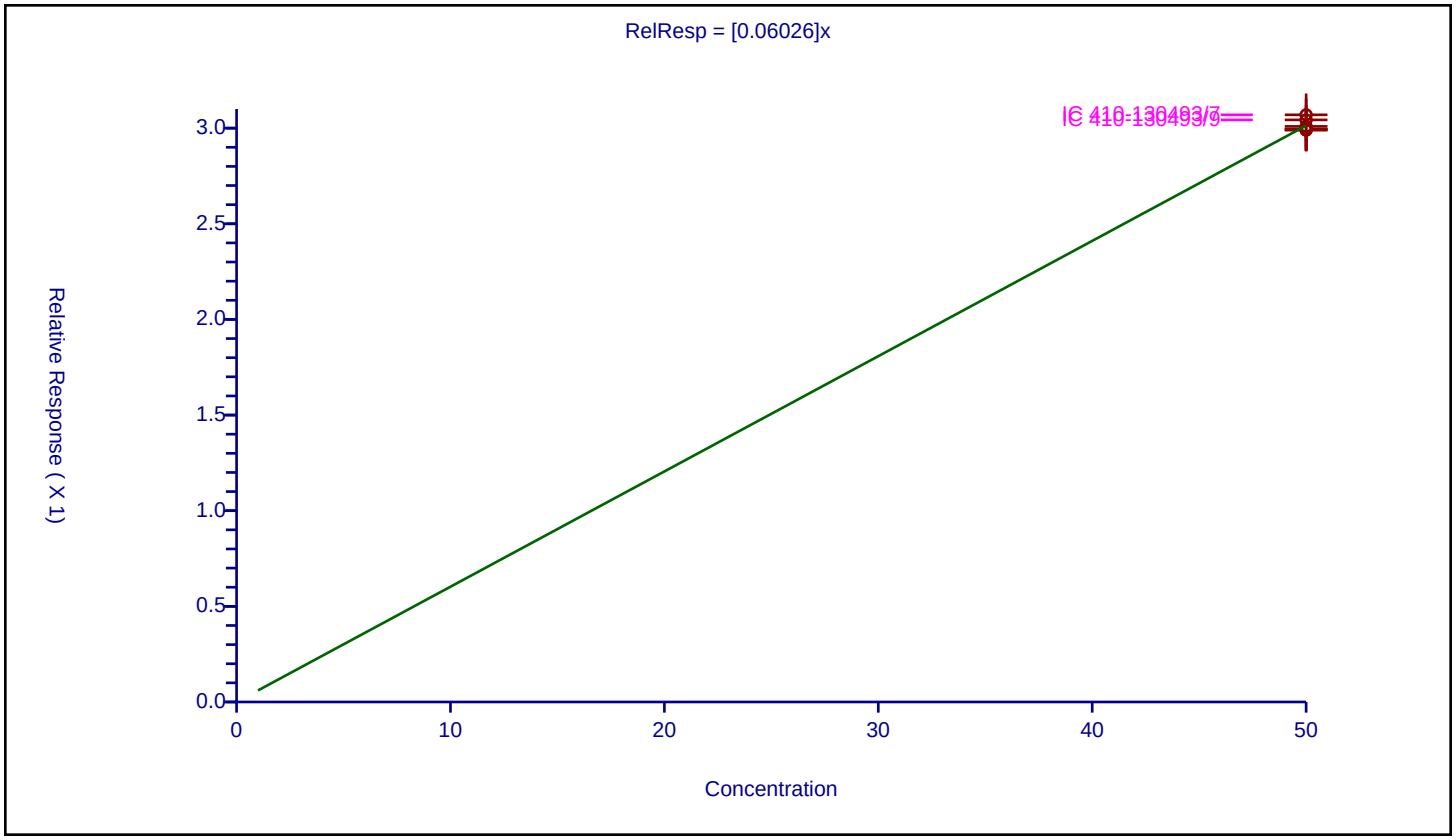
Curve Coefficients

Intercept:	0
Slope:	0.06026

Error Coefficients

Standard Error:	81000
Relative Standard Error:	1.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/3	50.0	2.994455	50.0	1283706.0	0.059889	Y
2	IC 410-130493/4	50.0	3.009165	50.0	1272662.0	0.060183	Y
3	ICIS 410-130493/5	50.0	2.989675	50.0	1268131.0	0.059794	Y
4	IC 410-130493/6	50.0	2.994135	50.0	1231491.0	0.059883	Y
5	IC 410-130493/7	50.0	3.069651	50.0	1208802.0	0.061393	Y
6	IC 410-130493/8	50.0	2.991493	50.0	1217051.0	0.05983	Y
7	IC 410-130493/9	50.0	3.043158	50.0	1227754.0	0.060863	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

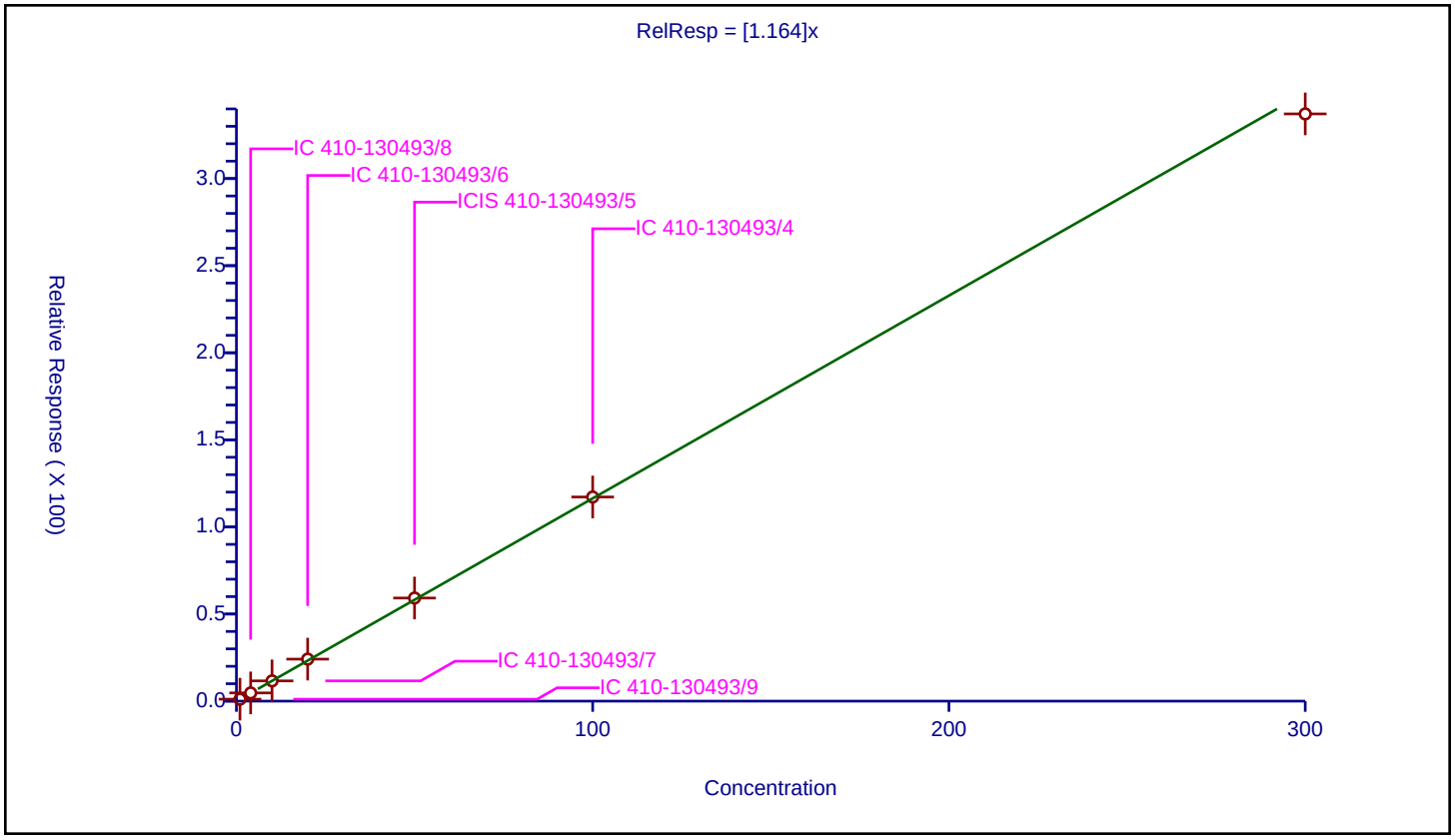
Curve Coefficients

Intercept:	0
Slope:	1.164

Error Coefficients

Standard Error:	3800000
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 410-130493/9	1.0	1.120949	50.0	1227754.0	1.120949	Y
2	IC 410-130493/8	4.0	4.712744	50.0	1217051.0	1.178186	Y
3	IC 410-130493/7	10.0	11.631309	50.0	1208802.0	1.163131	Y
4	IC 410-130493/6	20.0	24.124699	50.0	1231491.0	1.206235	Y
5	ICIS 410-130493/5	50.0	59.201888	50.0	1268131.0	1.184038	Y
6	IC 410-130493/4	100.0	117.185317	50.0	1272662.0	1.171853	Y
7	IC 410-130493/3	300.0	337.122012	50.0	1283706.0	1.12374	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

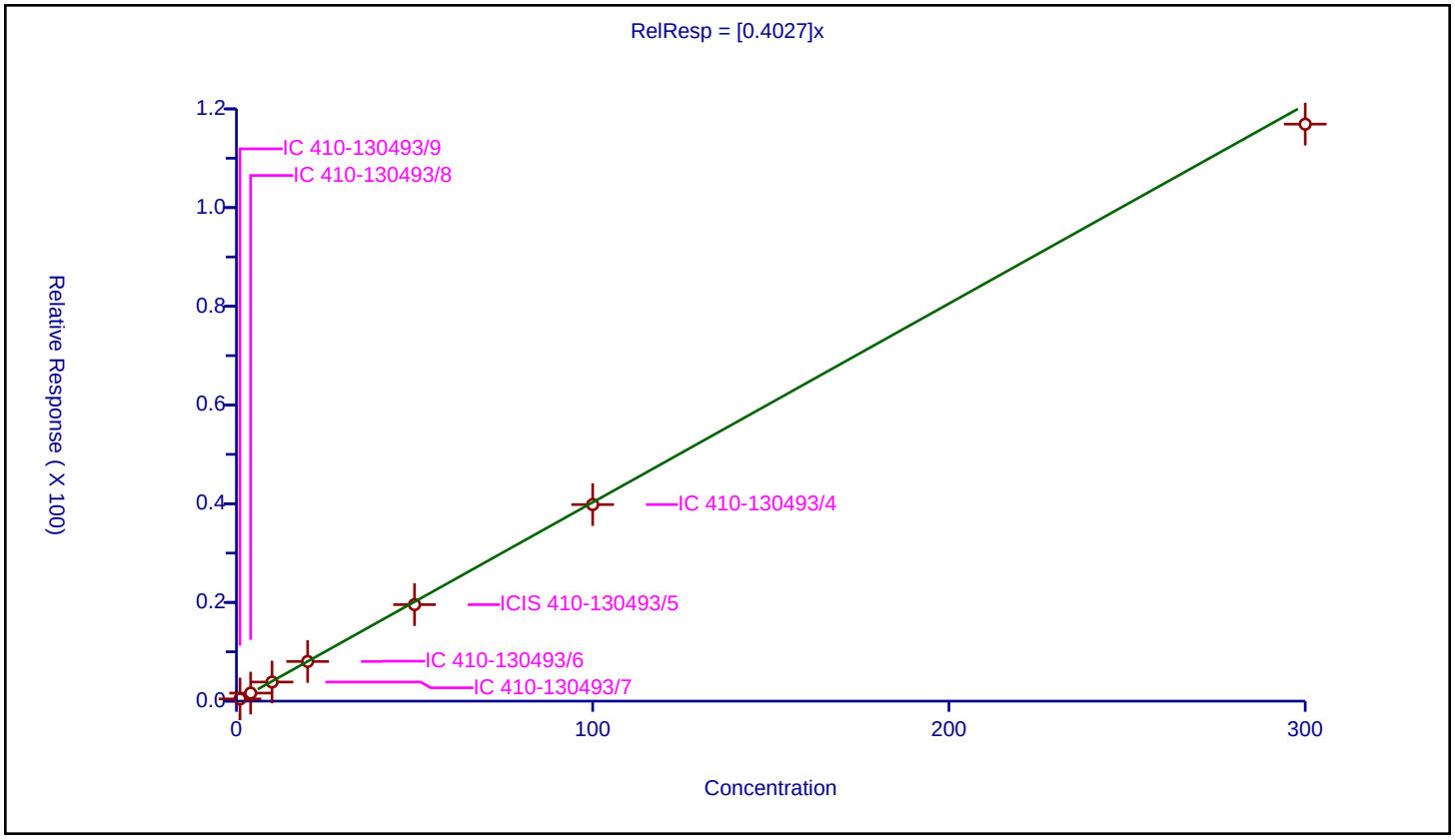
Curve Coefficients

Intercept:	0
Slope:	0.4027

Error Coefficients

Standard Error:	1310000
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 410-130493/9	1.0	0.443126	50.0	1227754.0	0.443126	Y
2	IC 410-130493/8	4.0	1.63132	50.0	1217051.0	0.40783	Y
3	IC 410-130493/7	10.0	3.87185	50.0	1208802.0	0.387185	Y
4	IC 410-130493/6	20.0	8.039888	50.0	1231491.0	0.401994	Y
5	ICIS 410-130493/5	50.0	19.556142	50.0	1268131.0	0.391123	Y
6	IC 410-130493/4	100.0	39.826875	50.0	1272662.0	0.398269	Y
7	IC 410-130493/3	300.0	116.910453	50.0	1283706.0	0.389702	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

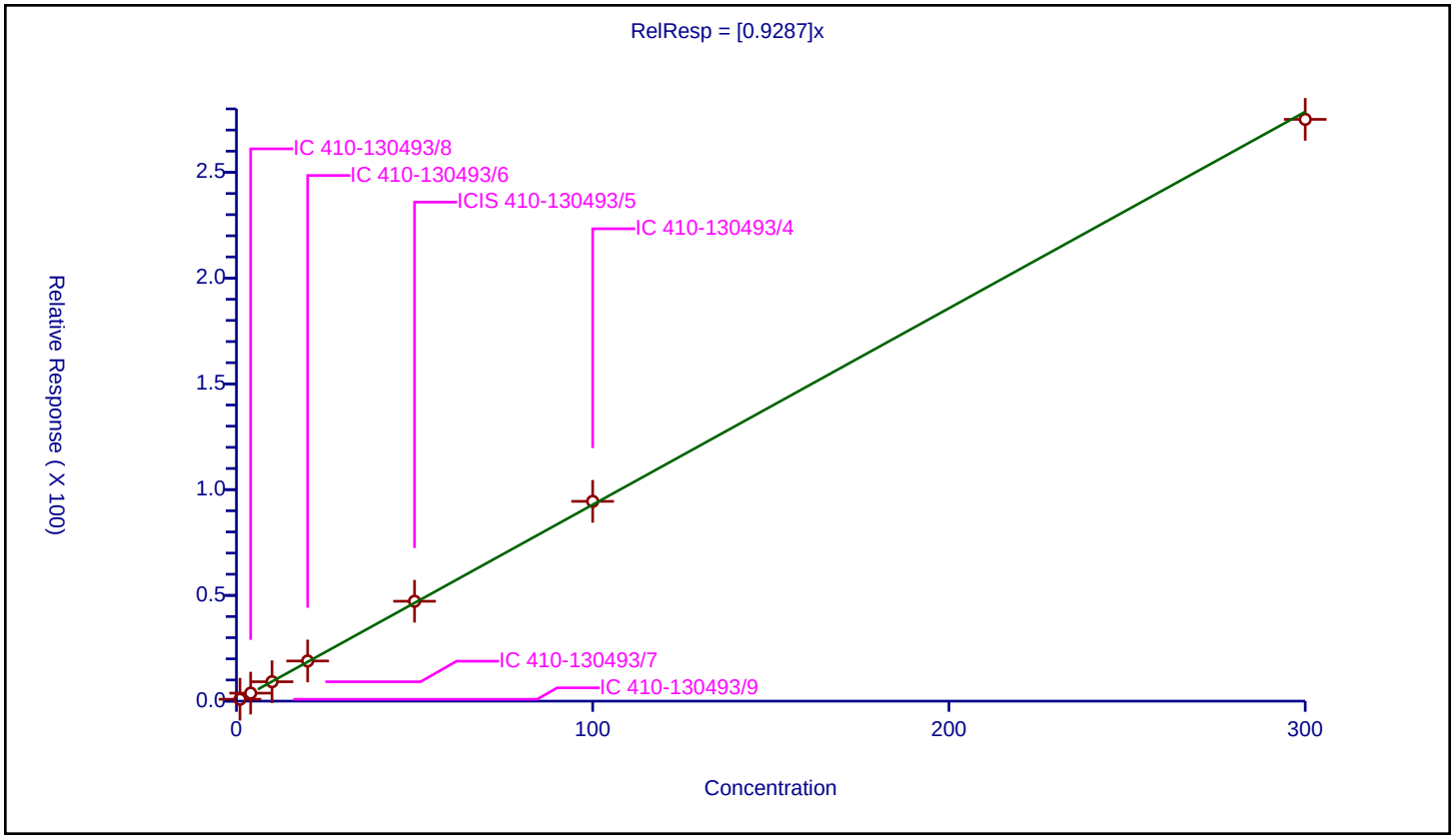
Curve Coefficients

Intercept:	0
Slope:	0.9287

Error Coefficients

Standard Error:	3090000
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 410-130493/9	1.0	0.882628	50.0	1227754.0	0.882628	Y
2	IC 410-130493/8	4.0	3.782791	50.0	1217051.0	0.945698	Y
3	IC 410-130493/7	10.0	9.175572	50.0	1208802.0	0.917557	Y
4	IC 410-130493/6	20.0	18.980041	50.0	1231491.0	0.949002	Y
5	ICIS 410-130493/5	50.0	47.227179	50.0	1268131.0	0.944544	Y
6	IC 410-130493/4	100.0	94.461923	50.0	1272662.0	0.944619	Y
7	IC 410-130493/3	300.0	275.050167	50.0	1283706.0	0.916834	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

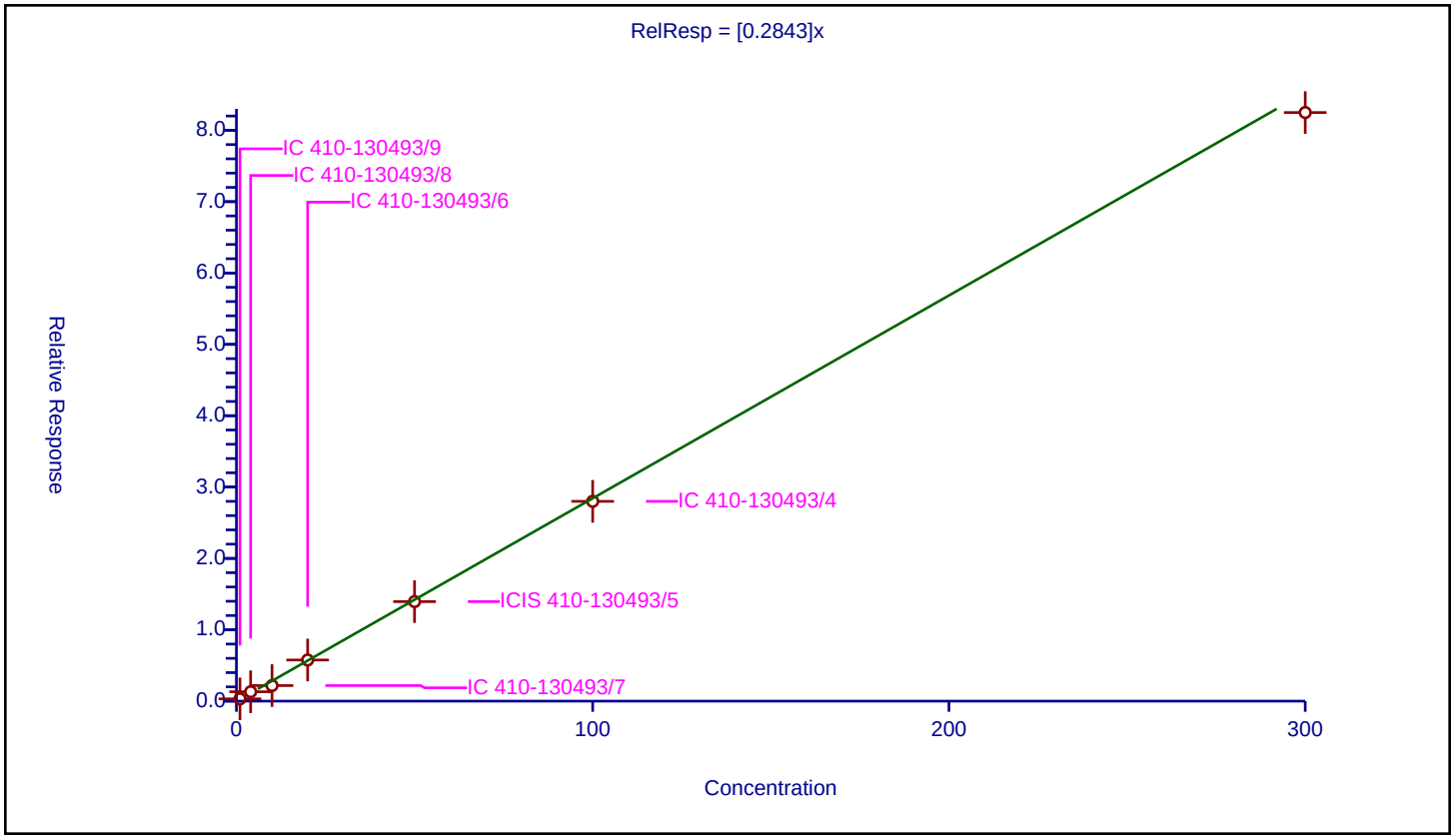
Curve Coefficients

Intercept:	0
Slope:	0.2843

Error Coefficients

Standard Error:	926000
Relative Standard Error:	12.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.320422	50.0	1227754.0	0.320422	Y
2	IC 410-130493/8	4.0	1.316379	50.0	1217051.0	0.329095	Y
3	IC 410-130493/7	10.0	2.181333	50.0	1208802.0	0.218133	Y
4	IC 410-130493/6	20.0	5.765166	50.0	1231491.0	0.288258	Y
5	ICIS 410-130493/5	50.0	13.945247	50.0	1268131.0	0.278905	Y
6	IC 410-130493/4	100.0	28.001858	50.0	1272662.0	0.280019	Y
7	IC 410-130493/3	300.0	82.490422	50.0	1283706.0	0.274968	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

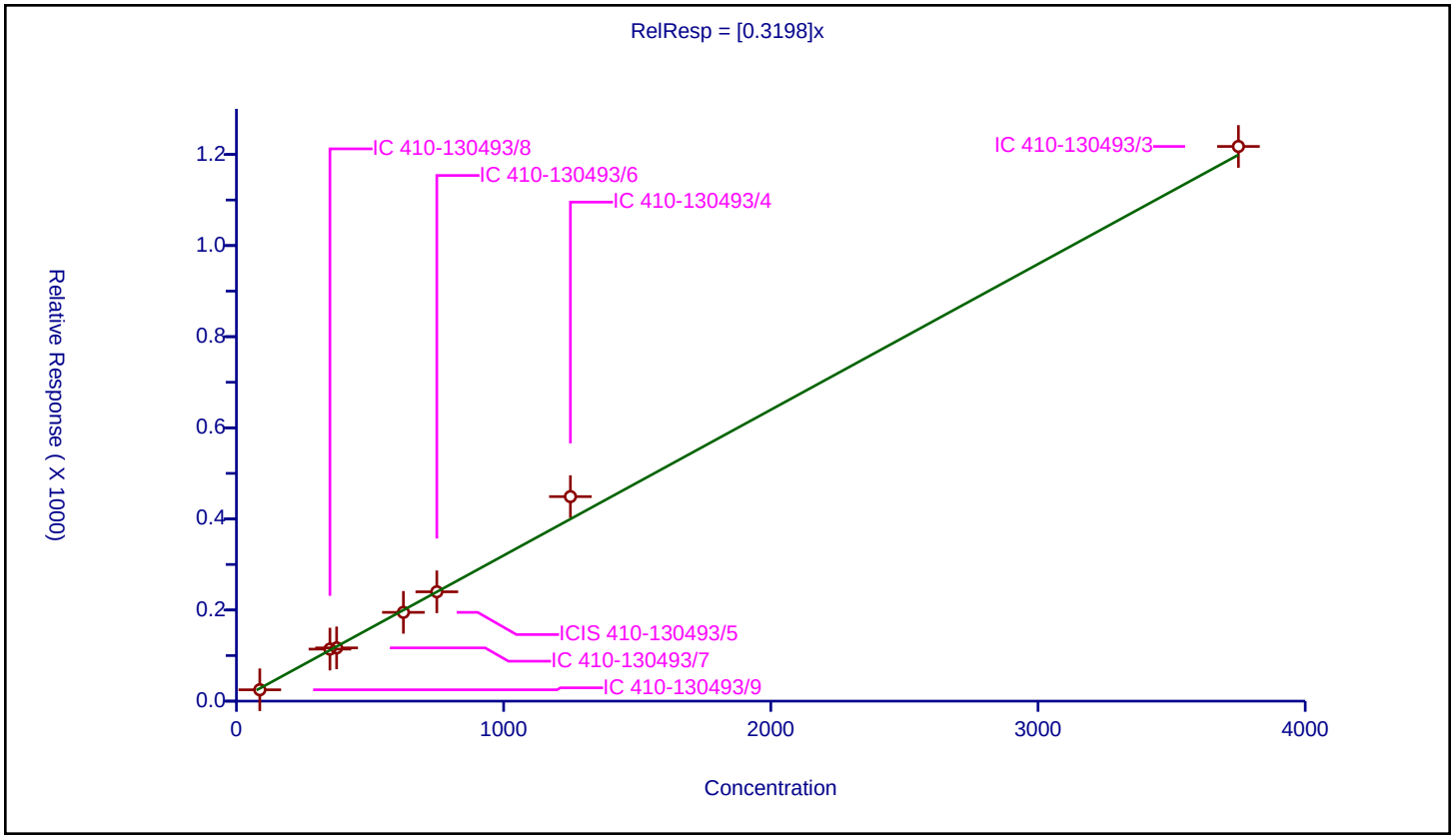
Curve Coefficients

Intercept:	0
Slope:	0.3198

Error Coefficients

Standard Error:	703000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	87.5	24.907232	250.0	310181.0	0.284654	Y
2	IC 410-130493/8	350.0	114.214766	250.0	280082.0	0.326328	Y
3	IC 410-130493/7	375.0	116.910646	250.0	262181.0	0.311762	Y
4	ICIS 410-130493/5	625.0	194.903492	250.0	309457.0	0.311846	Y
5	IC 410-130493/6	750.0	239.99407	250.0	264743.0	0.319992	Y
6	IC 410-130493/4	1250.0	448.942055	250.0	299023.0	0.359154	Y
7	IC 410-130493/3	3750.0	1217.554566	250.0	326163.0	0.324681	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

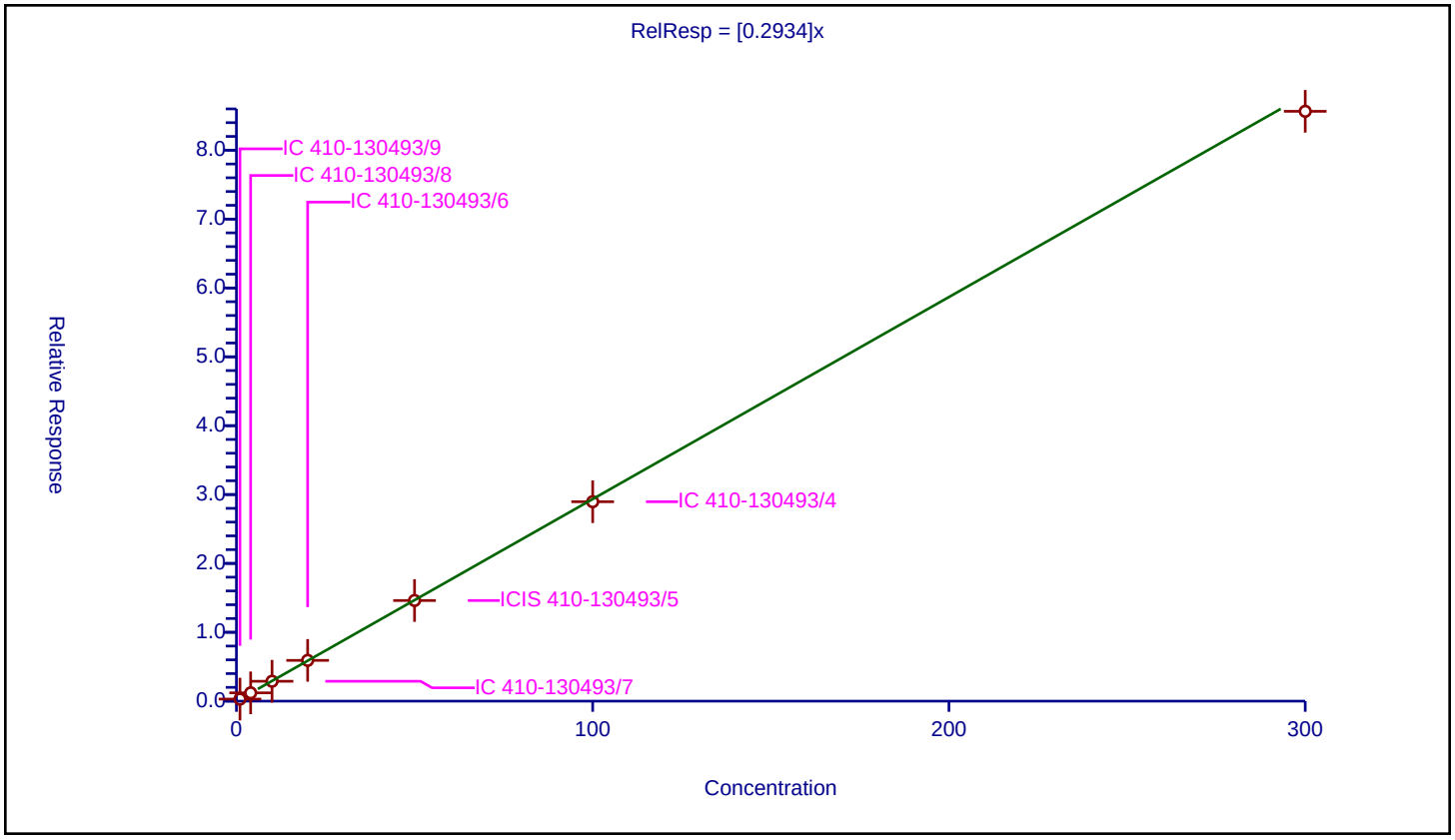
Curve Coefficients

Intercept:	0
Slope:	0.2934

Error Coefficients

Standard Error:	961000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.300793	50.0	1227754.0	0.300793	Y
2	IC 410-130493/8	4.0	1.203565	50.0	1217051.0	0.300891	Y
3	IC 410-130493/7	10.0	2.887446	50.0	1208802.0	0.288745	Y
4	IC 410-130493/6	20.0	5.919044	50.0	1231491.0	0.295952	Y
5	ICIS 410-130493/5	50.0	14.615249	50.0	1268131.0	0.292305	Y
6	IC 410-130493/4	100.0	28.958121	50.0	1272662.0	0.289581	Y
7	IC 410-130493/3	300.0	85.649323	50.0	1283706.0	0.285498	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

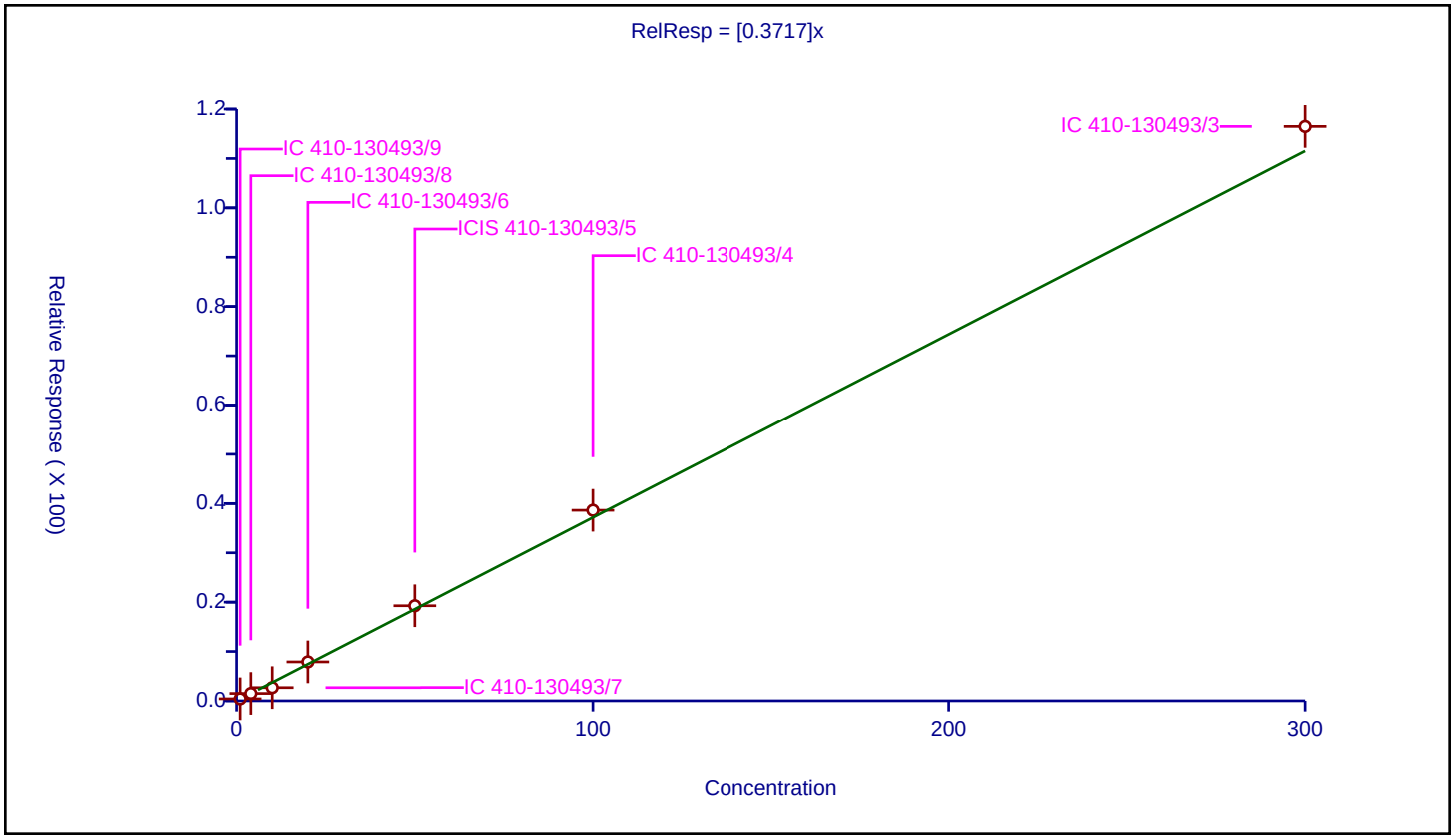
Curve Coefficients

Intercept:	0
Slope:	0.3717

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	12.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.406678	50.0	1227754.0	0.406678	Y
2	IC 410-130493/8	4.0	1.49283	50.0	1217051.0	0.373207	Y
3	IC 410-130493/7	10.0	2.674094	50.0	1208802.0	0.267409	Y
4	IC 410-130493/6	20.0	7.894292	50.0	1231491.0	0.394715	Y
5	ICIS 410-130493/5	50.0	19.274783	50.0	1268131.0	0.385496	Y
6	IC 410-130493/4	100.0	38.636928	50.0	1272662.0	0.386369	Y
7	IC 410-130493/3	300.0	116.490614	50.0	1283706.0	0.388302	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

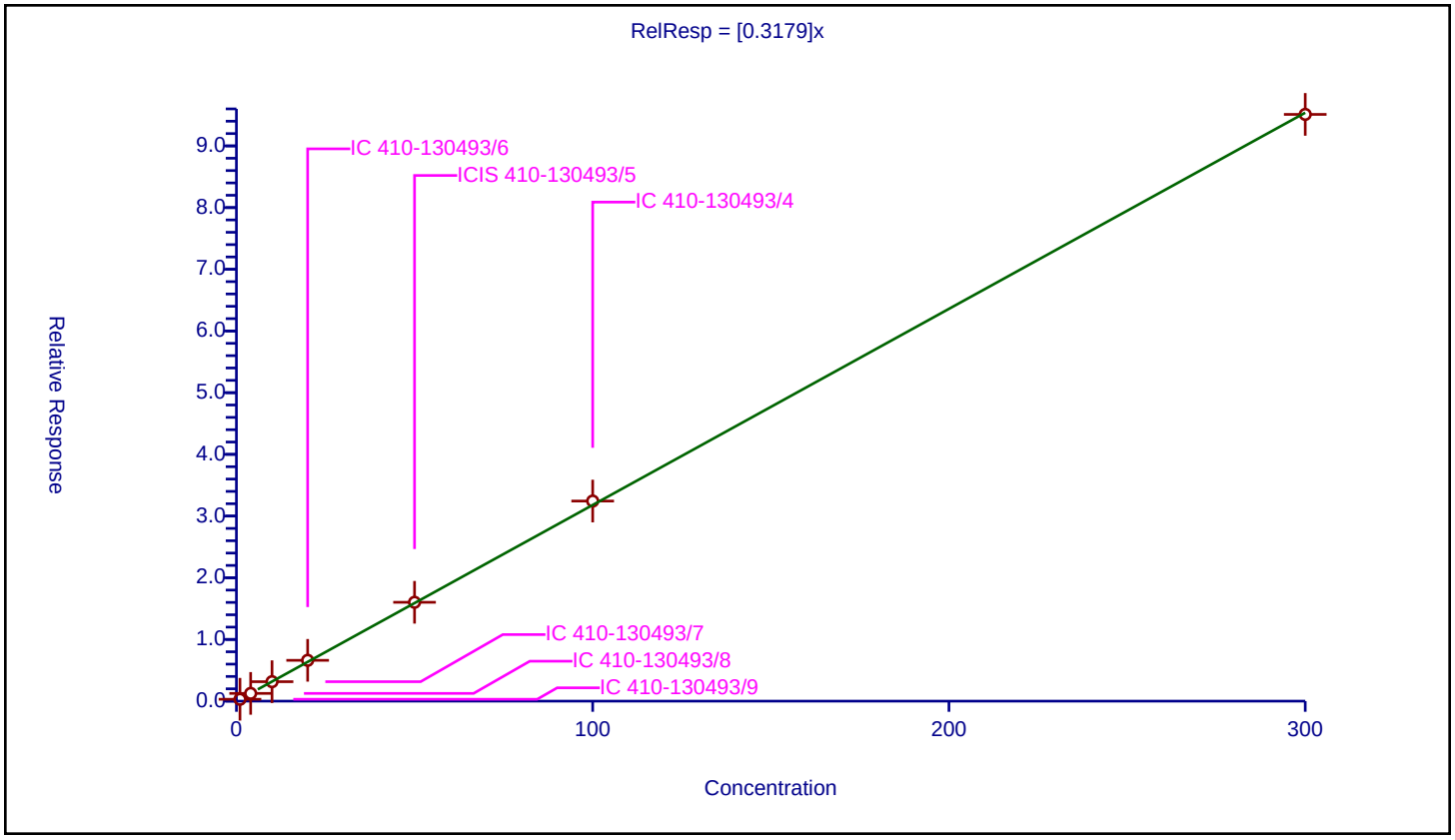
Curve Coefficients

Intercept:	0
Slope:	0.3179

Error Coefficients

Standard Error:	1070000
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 410-130493/9	1.0	0.304051	50.0	1227754.0	0.304051	Y
2	IC 410-130493/8	4.0	1.252741	50.0	1217051.0	0.313185	Y
3	IC 410-130493/7	10.0	3.155314	50.0	1208802.0	0.315531	Y
4	IC 410-130493/6	20.0	6.617791	50.0	1231491.0	0.33089	Y
5	ICIS 410-130493/5	50.0	16.025119	50.0	1268131.0	0.320502	Y
6	IC 410-130493/4	100.0	32.434181	50.0	1272662.0	0.324342	Y
7	IC 410-130493/3	300.0	95.104603	50.0	1283706.0	0.317015	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

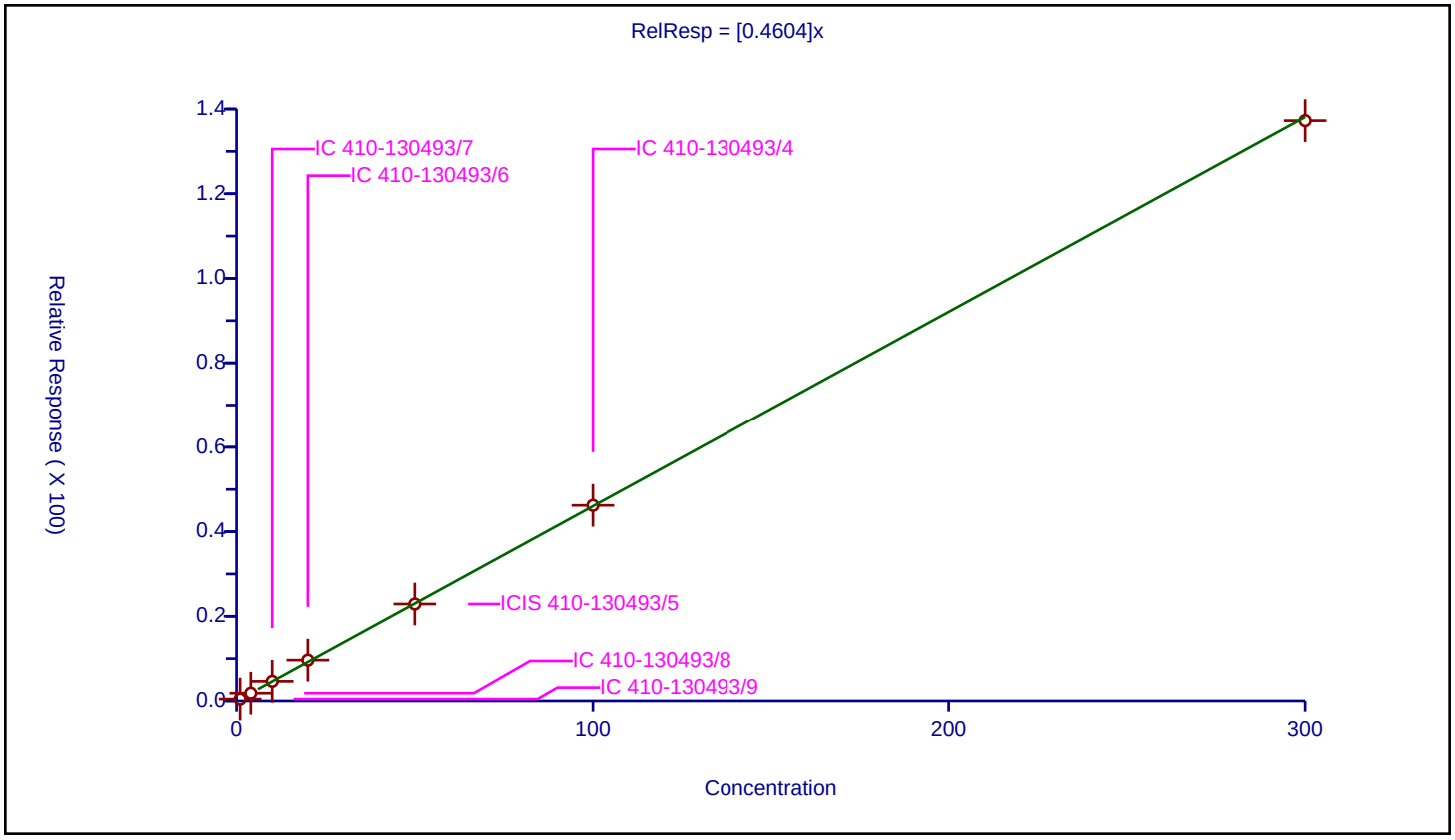
Curve Coefficients

Intercept:	0
Slope:	0.4604

Error Coefficients

Standard Error:	1540000
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 410-130493/9	1.0	0.441497	50.0	1227754.0	0.441497	Y
2	IC 410-130493/8	4.0	1.832257	50.0	1217051.0	0.458064	Y
3	IC 410-130493/7	10.0	4.631652	50.0	1208802.0	0.463165	Y
4	IC 410-130493/6	20.0	9.639332	50.0	1231491.0	0.481967	Y
5	ICIS 410-130493/5	50.0	22.903588	50.0	1268131.0	0.458072	Y
6	IC 410-130493/4	100.0	46.229007	50.0	1272662.0	0.46229	Y
7	IC 410-130493/3	300.0	137.262387	50.0	1283706.0	0.457541	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

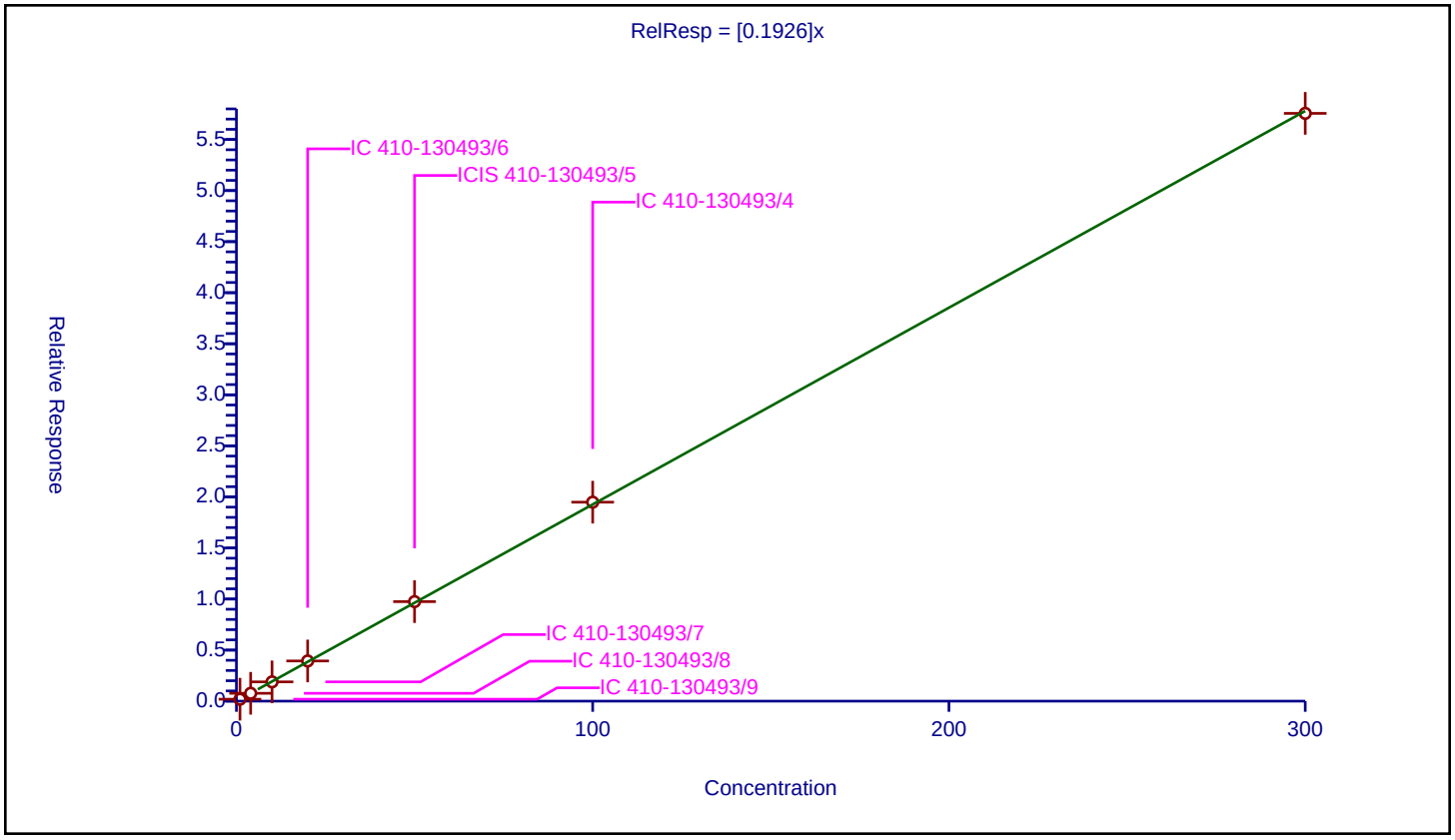
Curve Coefficients

Intercept:	0
Slope:	0.1926

Error Coefficients

Standard Error:	646000
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 410-130493/9	1.0	0.189411	50.0	1227754.0	0.189411	Y
2	IC 410-130493/8	4.0	0.768415	50.0	1217051.0	0.192104	Y
3	IC 410-130493/7	10.0	1.88633	50.0	1208802.0	0.188633	Y
4	IC 410-130493/6	20.0	3.935433	50.0	1231491.0	0.196772	Y
5	ICIS 410-130493/5	50.0	9.745602	50.0	1268131.0	0.194912	Y
6	IC 410-130493/4	100.0	19.484749	50.0	1272662.0	0.194847	Y
7	IC 410-130493/3	300.0	57.560843	50.0	1283706.0	0.191869	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

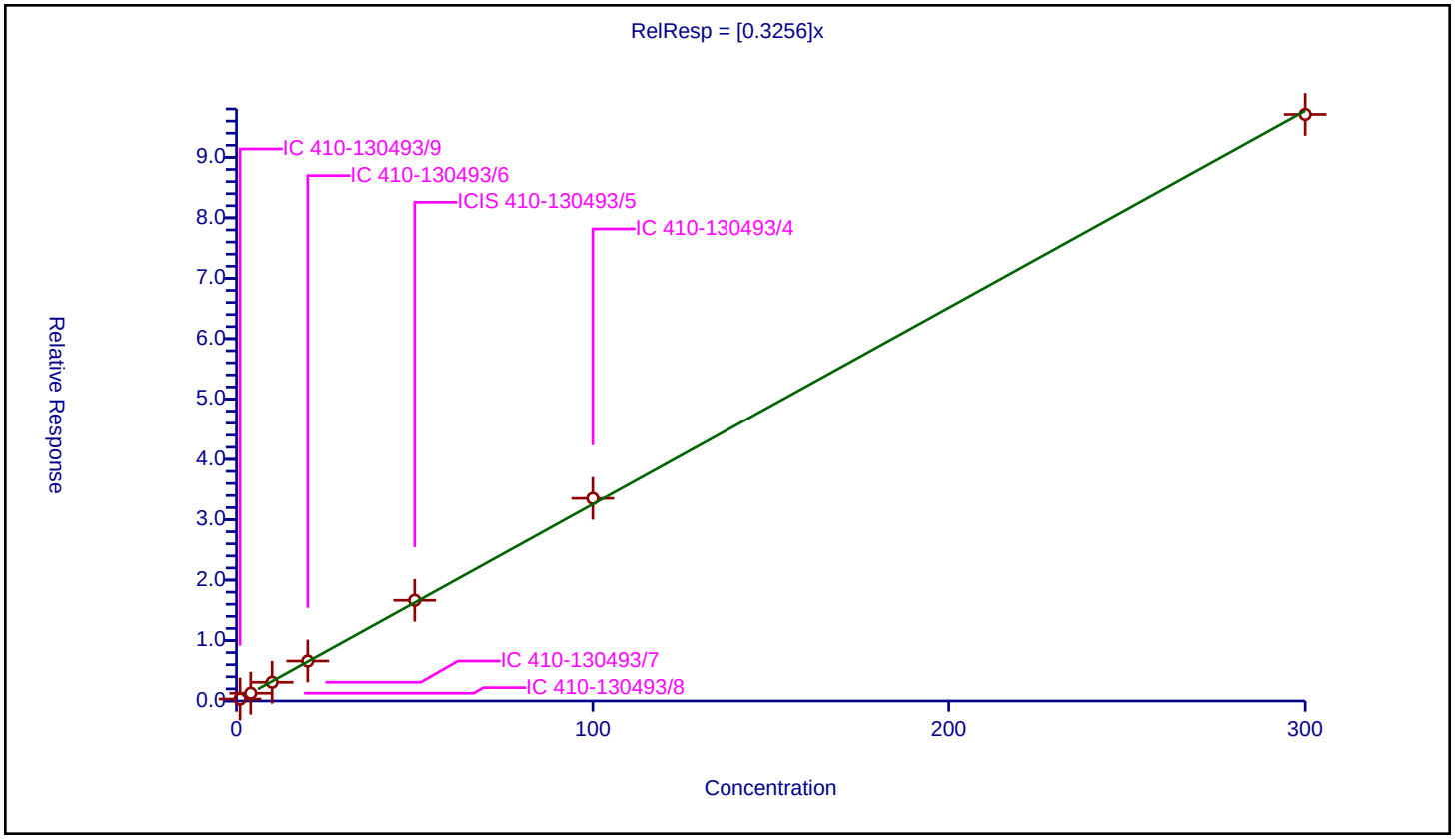
Curve Coefficients

Intercept:	0
Slope:	0.3256

Error Coefficients

Standard Error:	1090000
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 410-130493/9	1.0	0.325961	50.0	1227754.0	0.325961	Y
2	IC 410-130493/8	4.0	1.285443	50.0	1217051.0	0.321361	Y
3	IC 410-130493/7	10.0	3.096247	50.0	1208802.0	0.309625	Y
4	IC 410-130493/6	20.0	6.609427	50.0	1231491.0	0.330471	Y
5	ICIS 410-130493/5	50.0	16.655338	50.0	1268131.0	0.333107	Y
6	IC 410-130493/4	100.0	33.532038	50.0	1272662.0	0.33532	Y
7	IC 410-130493/3	300.0	97.097194	50.0	1283706.0	0.323657	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

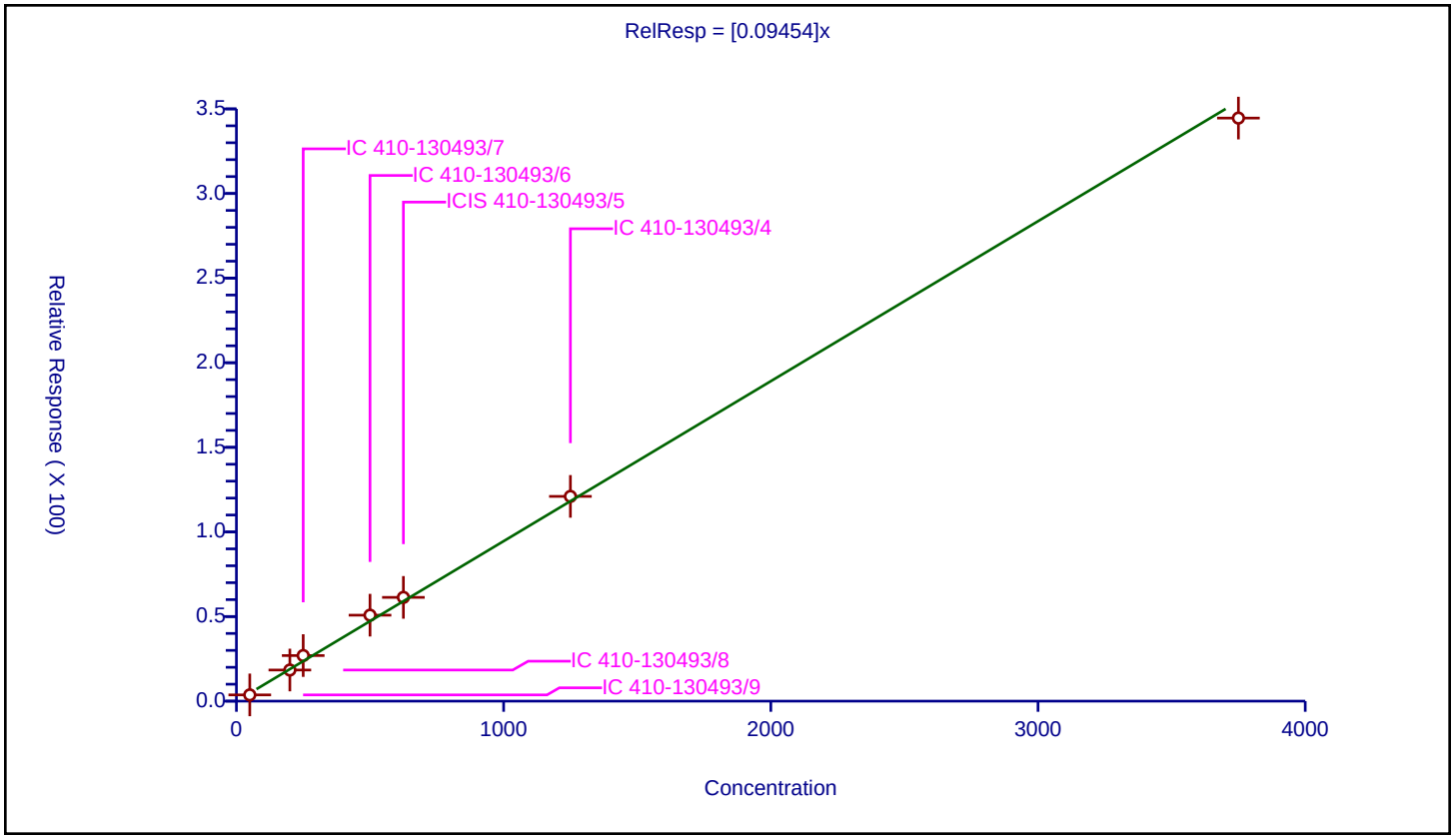
Curve Coefficients

Intercept:	0
Slope:	0.09454

Error Coefficients

Standard Error:	197000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	50.0	3.683333	250.0	310181.0	0.073667	Y
2	IC 410-130493/8	200.0	18.397291	250.0	280082.0	0.091986	Y
3	IC 410-130493/7	250.0	26.937497	250.0	262181.0	0.10775	Y
4	IC 410-130493/6	500.0	50.794544	250.0	264743.0	0.101589	Y
5	ICIS 410-130493/5	625.0	61.320313	250.0	309457.0	0.098113	Y
6	IC 410-130493/4	1250.0	120.993201	250.0	299023.0	0.096795	Y
7	IC 410-130493/3	3750.0	344.573879	250.0	326163.0	0.091886	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

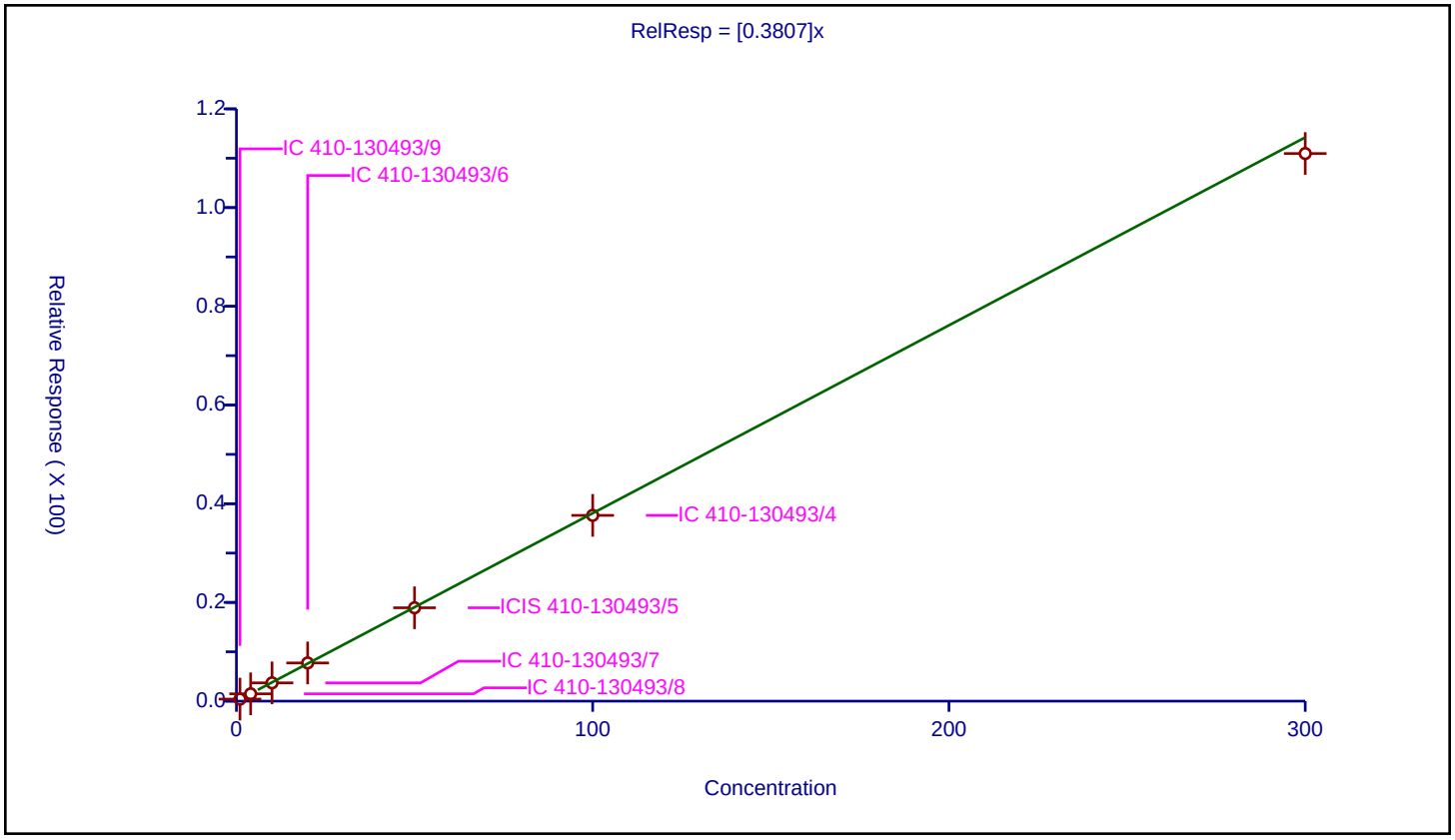
Curve Coefficients

Intercept:	0
Slope:	0.3807

Error Coefficients

Standard Error:	1250000
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 410-130493/9	1.0	0.411402	50.0	1227754.0	0.411402	Y
2	IC 410-130493/8	4.0	1.48675	50.0	1217051.0	0.371687	Y
3	IC 410-130493/7	10.0	3.704949	50.0	1208802.0	0.370495	Y
4	IC 410-130493/6	20.0	7.740454	50.0	1231491.0	0.387023	Y
5	ICIS 410-130493/5	50.0	18.91788	50.0	1268131.0	0.378358	Y
6	IC 410-130493/4	100.0	37.635877	50.0	1272662.0	0.376359	Y
7	IC 410-130493/3	300.0	110.954261	50.0	1283706.0	0.369848	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

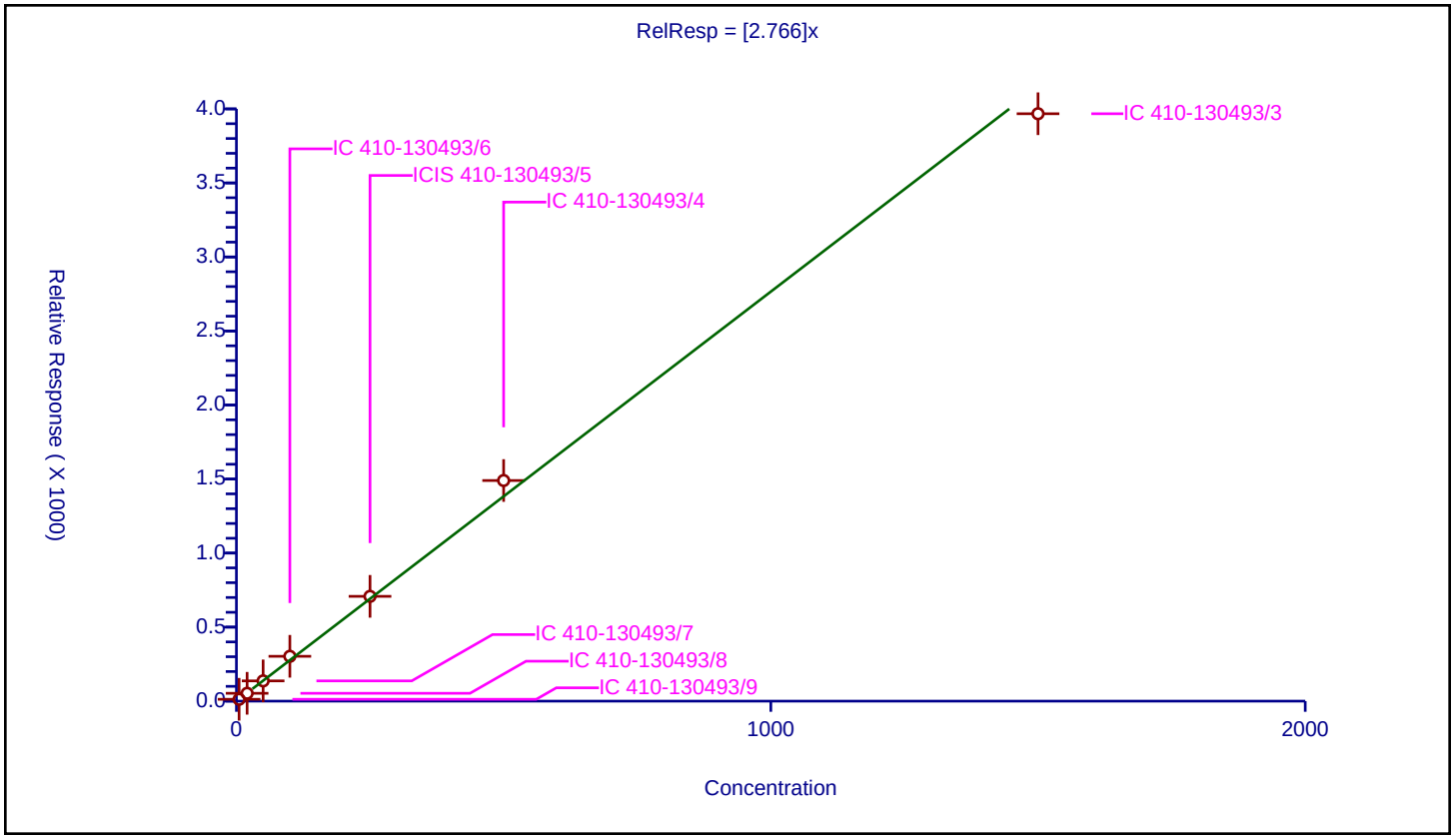
Curve Coefficients

Intercept:	0
Slope:	2.766

Error Coefficients

Standard Error:	2270000
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 410-130493/9	5.0	12.460467	250.0	310181.0	2.492093	Y
2	IC 410-130493/8	20.0	52.925572	250.0	280082.0	2.646279	Y
3	IC 410-130493/7	50.0	136.880628	250.0	262181.0	2.737613	Y
4	IC 410-130493/6	100.0	302.804984	250.0	264743.0	3.02805	Y
5	ICIS 410-130493/5	250.0	707.712218	250.0	309457.0	2.830849	Y
6	IC 410-130493/4	500.0	1490.134538	250.0	299023.0	2.980269	Y
7	IC 410-130493/3	1500.0	3967.292427	250.0	326163.0	2.644862	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

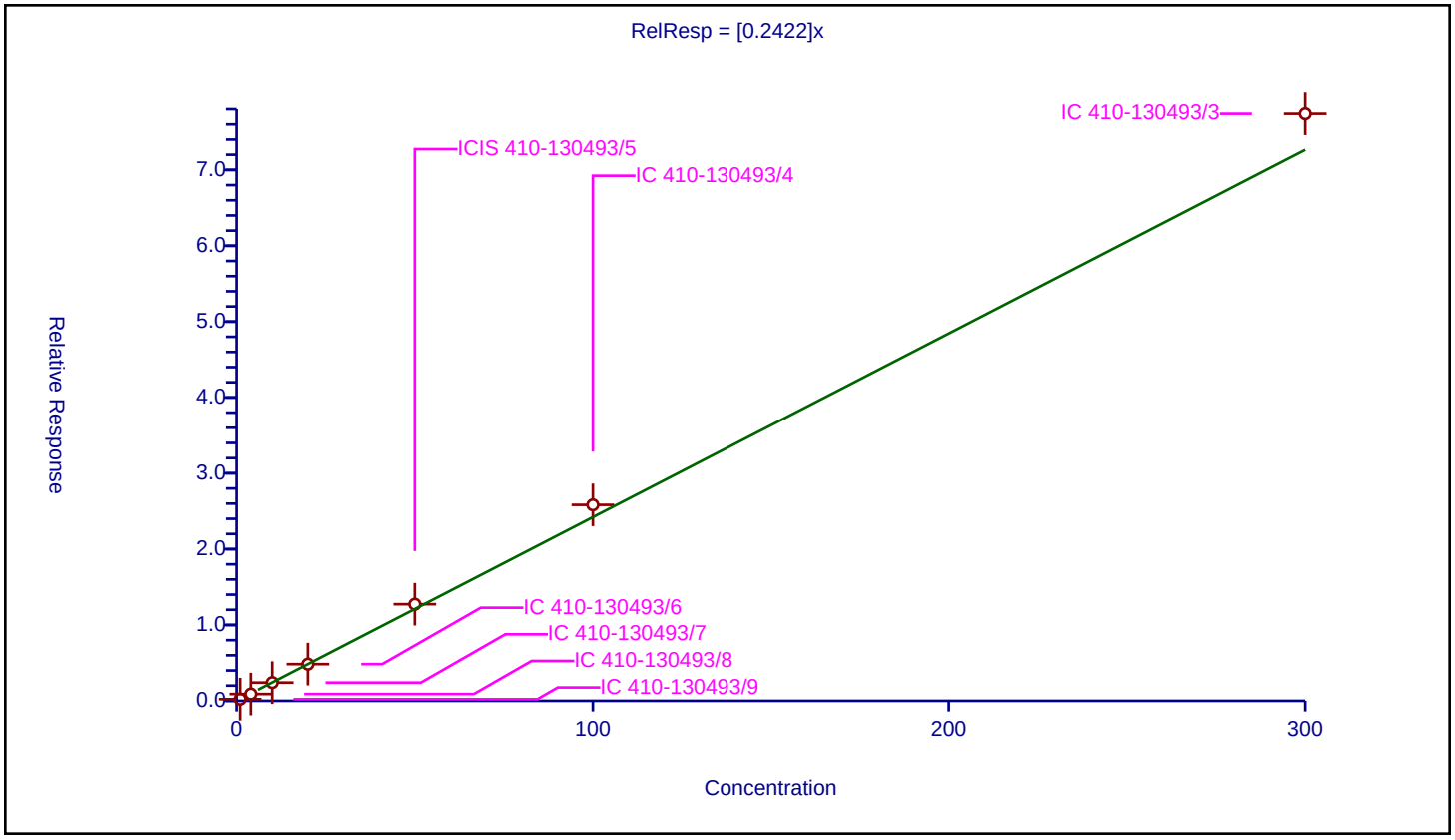
Curve Coefficients

Intercept:	0
Slope:	0.2422

Error Coefficients

Standard Error:	866000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.217592	50.0	1227754.0	0.217592	Y
2	IC 410-130493/8	4.0	0.897374	50.0	1217051.0	0.224344	Y
3	IC 410-130493/7	10.0	2.402254	50.0	1208802.0	0.240225	Y
4	IC 410-130493/6	20.0	4.838363	50.0	1231491.0	0.241918	Y
5	ICIS 410-130493/5	50.0	12.738471	50.0	1268131.0	0.254769	Y
6	IC 410-130493/4	100.0	25.836357	50.0	1272662.0	0.258364	Y
7	IC 410-130493/3	300.0	77.397239	50.0	1283706.0	0.257991	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

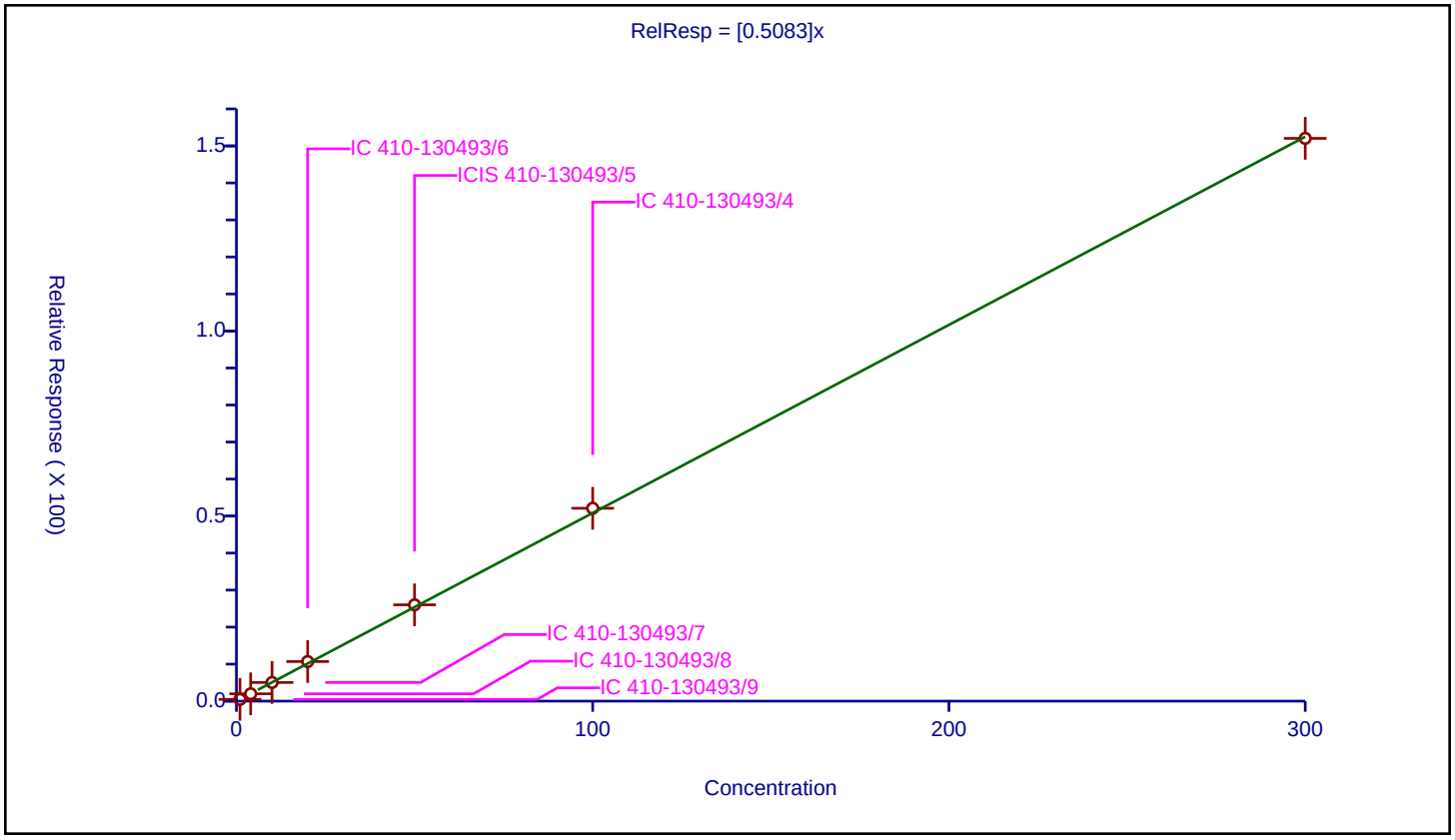
Curve Coefficients

Intercept:	0
Slope:	0.5083

Error Coefficients

Standard Error:	1710000
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 410-130493/9	1.0	0.47481	50.0	1227754.0	0.47481	Y
2	IC 410-130493/8	4.0	1.98414	50.0	1217051.0	0.496035	Y
3	IC 410-130493/7	10.0	5.039411	50.0	1208802.0	0.503941	Y
4	IC 410-130493/6	20.0	10.695084	50.0	1231491.0	0.534754	Y
5	ICIS 410-130493/5	50.0	26.021641	50.0	1268131.0	0.520433	Y
6	IC 410-130493/4	100.0	52.106804	50.0	1272662.0	0.521068	Y
7	IC 410-130493/3	300.0	152.045133	50.0	1283706.0	0.506817	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

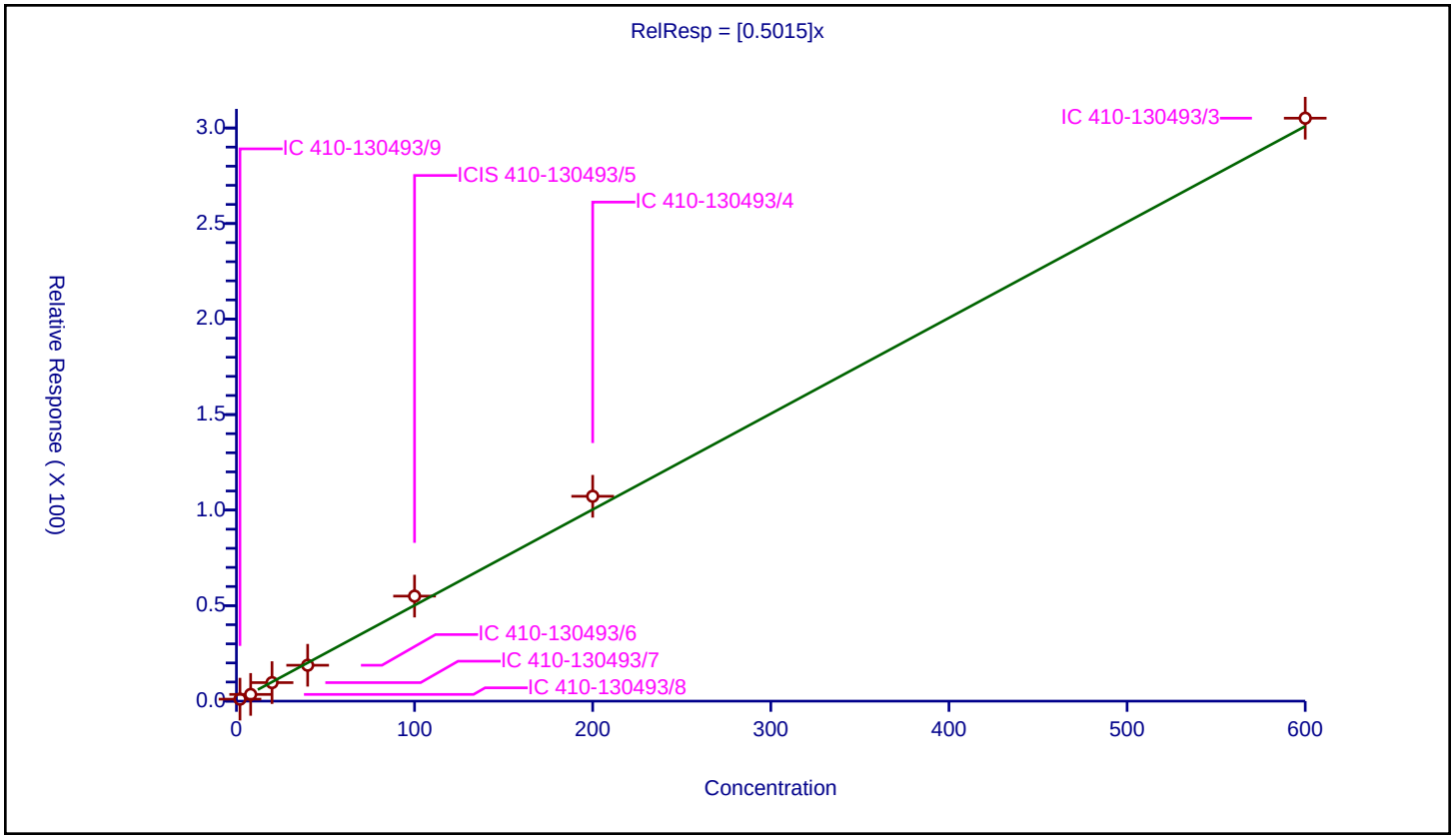
Curve Coefficients

Intercept:	0
Slope:	0.5015

Error Coefficients

Standard Error:	3440000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	2.0	1.044916	50.0	1227754.0	0.522458	Y
2	IC 410-130493/8	8.0	3.516738	50.0	1217051.0	0.439592	Y
3	IC 410-130493/7	20.0	9.690048	50.0	1208802.0	0.484502	Y
4	IC 410-130493/6	40.0	18.785724	50.0	1231491.0	0.469643	Y
5	ICIS 410-130493/5	100.0	54.973382	50.0	1268131.0	0.549734	Y
6	IC 410-130493/4	200.0	107.230749	50.0	1272662.0	0.536154	Y
7	IC 410-130493/3	600.0	305.129017	50.0	1283706.0	0.508548	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

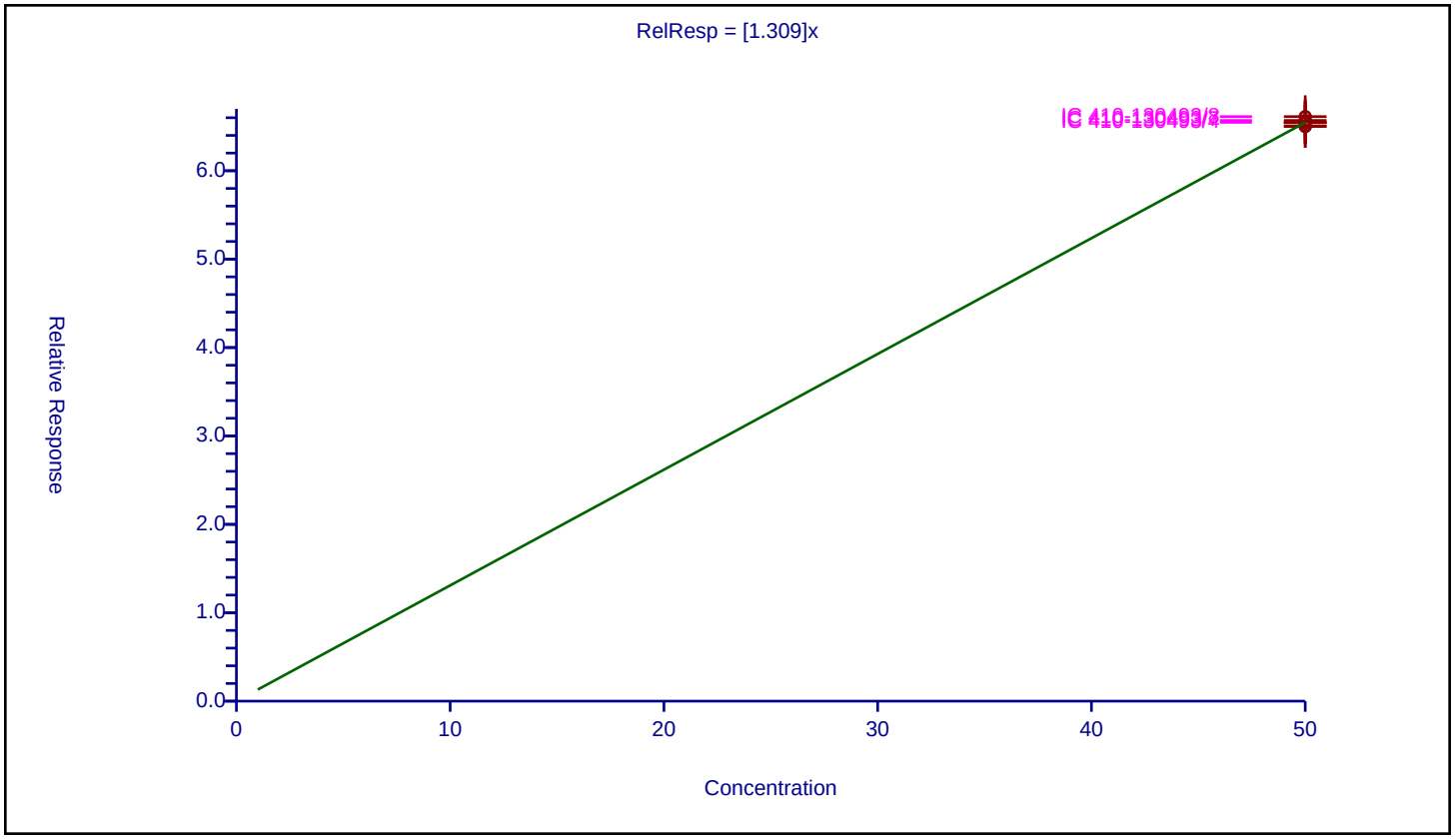
Curve Coefficients

Intercept:	0
Slope:	1.309

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/3	50.0	65.002826	50.0	980172.0	1.300057	Y
2	IC 410-130493/4	50.0	65.475992	50.0	958462.0	1.30952	Y
3	ICIS 410-130493/5	50.0	65.445694	50.0	957474.0	1.308914	Y
4	IC 410-130493/6	50.0	65.432469	50.0	937478.0	1.308649	Y
5	IC 410-130493/7	50.0	65.69309	50.0	918041.0	1.313862	Y
6	IC 410-130493/8	50.0	66.126347	50.0	910141.0	1.322527	Y
7	IC 410-130493/9	50.0	65.05579	50.0	931077.0	1.301116	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

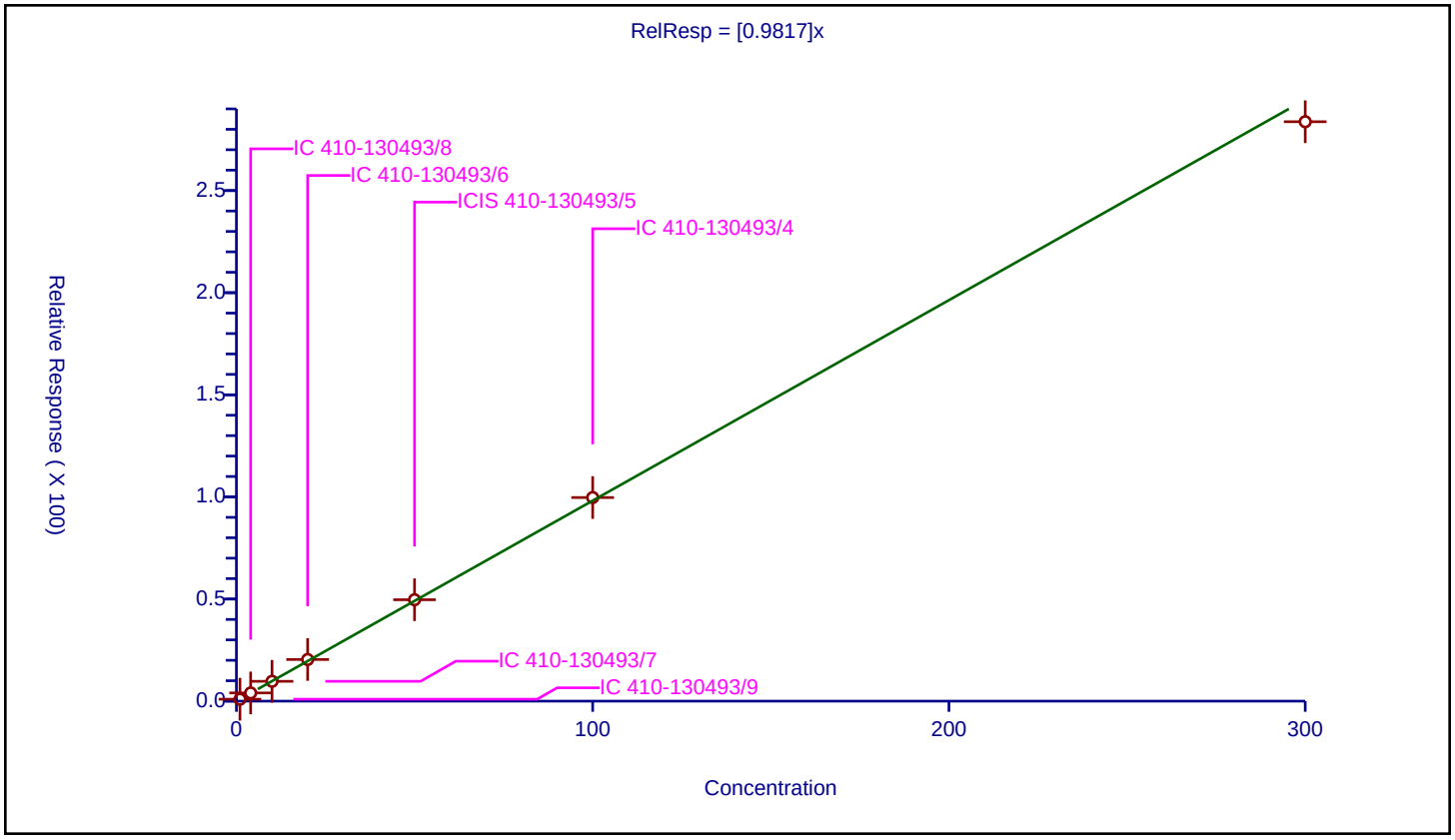
Curve Coefficients

Intercept:	0
Slope:	0.9817

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 410-130493/9	1.0	0.941544	50.0	931077.0	0.941544	Y
2	IC 410-130493/8	4.0	4.017509	50.0	910141.0	1.004377	Y
3	IC 410-130493/7	10.0	9.707573	50.0	918041.0	0.970757	Y
4	IC 410-130493/6	20.0	20.390398	50.0	937478.0	1.01952	Y
5	ICIS 410-130493/5	50.0	49.655656	50.0	957474.0	0.993113	Y
6	IC 410-130493/4	100.0	99.692737	50.0	958462.0	0.996927	Y
7	IC 410-130493/3	300.0	283.716582	50.0	980172.0	0.945722	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

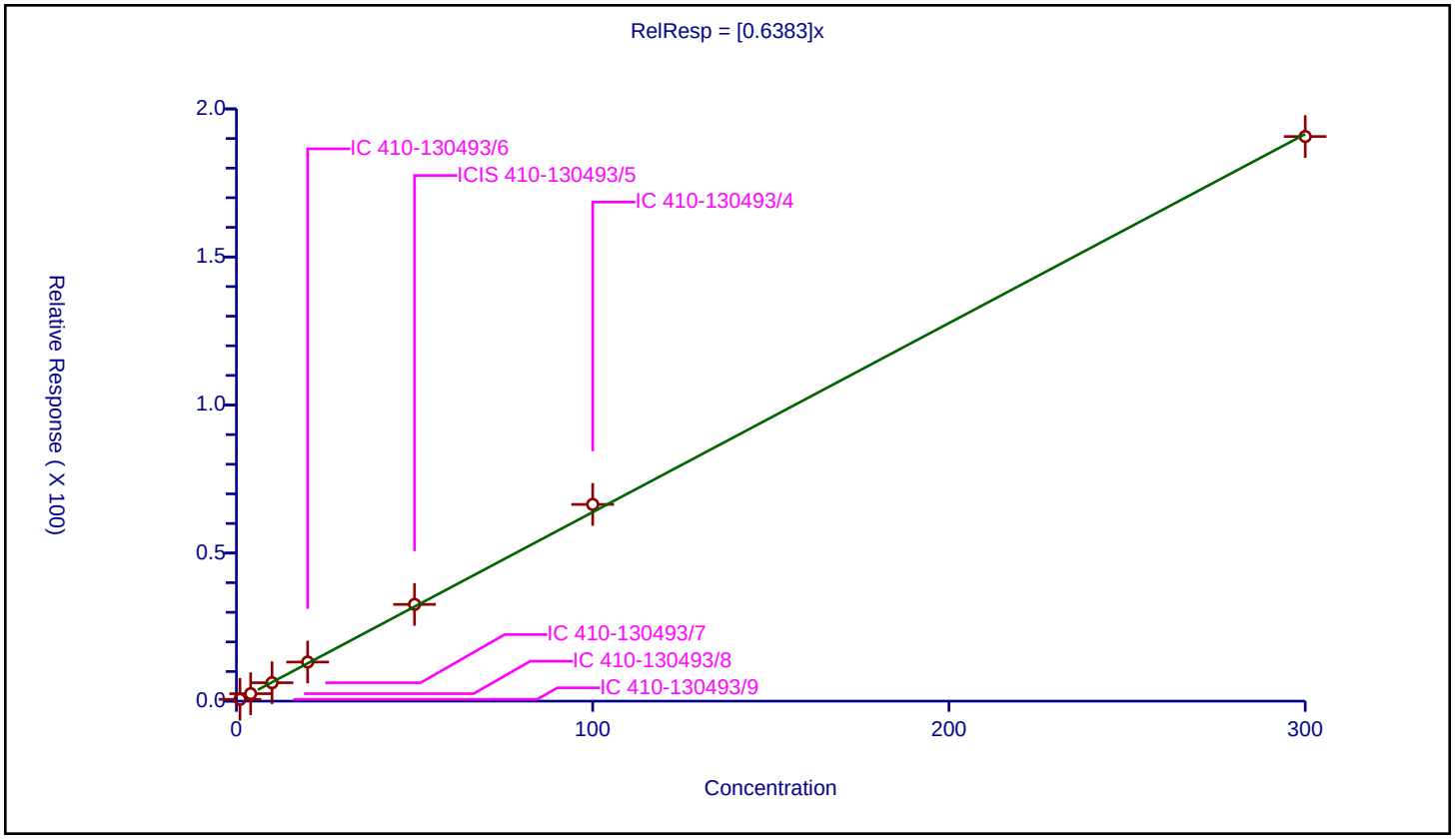
Curve Coefficients

Intercept:	0
Slope:	0.6383

Error Coefficients

Standard Error:	1640000
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 410-130493/9	1.0	0.605052	50.0	931077.0	0.605052	Y
2	IC 410-130493/8	4.0	2.509556	50.0	910141.0	0.627389	Y
3	IC 410-130493/7	10.0	6.221999	50.0	918041.0	0.6222	Y
4	IC 410-130493/6	20.0	13.198443	50.0	937478.0	0.659922	Y
5	ICIS 410-130493/5	50.0	32.670339	50.0	957474.0	0.653407	Y
6	IC 410-130493/4	100.0	66.437324	50.0	958462.0	0.664373	Y
7	IC 410-130493/3	300.0	190.66924	50.0	980172.0	0.635564	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

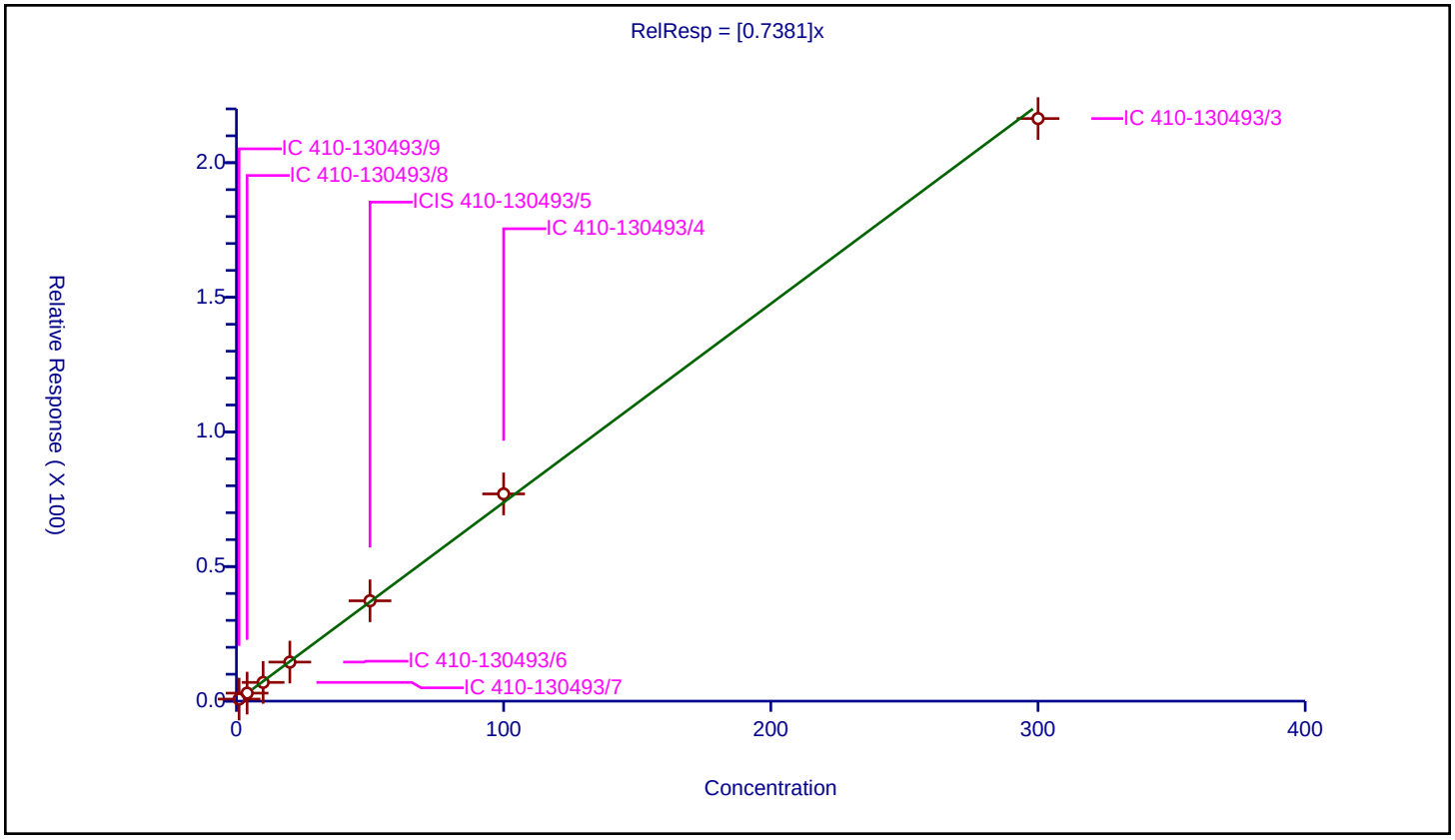
Curve Coefficients

Intercept:	0
Slope:	0.7381

Error Coefficients

Standard Error:	1860000
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 410-130493/9	1.000044	0.763793	50.0	931077.0	0.763759	Y
2	IC 410-130493/8	4.000175	2.981406	50.0	910141.0	0.745319	Y
3	IC 410-130493/7	10.000438	6.955898	50.0	918041.0	0.695559	Y
4	IC 410-130493/6	20.000875	14.506154	50.0	937478.0	0.725276	Y
5	ICIS 410-130493/5	50.002188	37.275268	50.0	957474.0	0.745473	Y
6	IC 410-130493/4	100.004376	76.98229	50.0	958462.0	0.769789	Y
7	IC 410-130493/3	300.013128	216.404468	50.0	980172.0	0.721317	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

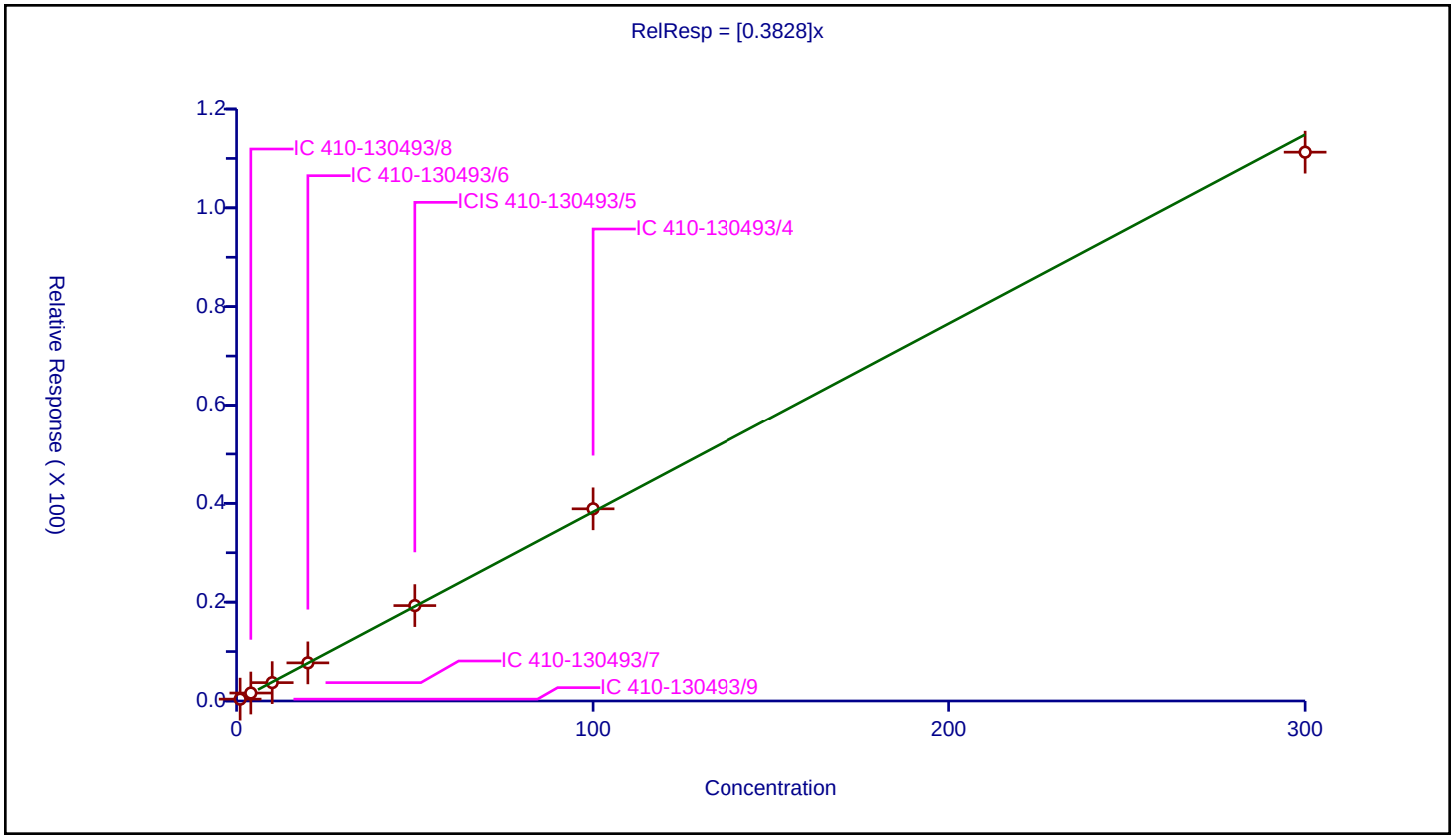
Curve Coefficients

Intercept:	0
Slope:	0.3828

Error Coefficients

Standard Error:	955000
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 410-130493/9	1.0	0.373922	50.0	931077.0	0.373922	Y
2	IC 410-130493/8	4.0	1.608542	50.0	910141.0	0.402135	Y
3	IC 410-130493/7	10.0	3.718189	50.0	918041.0	0.371819	Y
4	IC 410-130493/6	20.0	7.714048	50.0	937478.0	0.385702	Y
5	ICIS 410-130493/5	50.0	19.303553	50.0	957474.0	0.386071	Y
6	IC 410-130493/4	100.0	38.890483	50.0	958462.0	0.388905	Y
7	IC 410-130493/3	300.0	111.266696	50.0	980172.0	0.370889	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

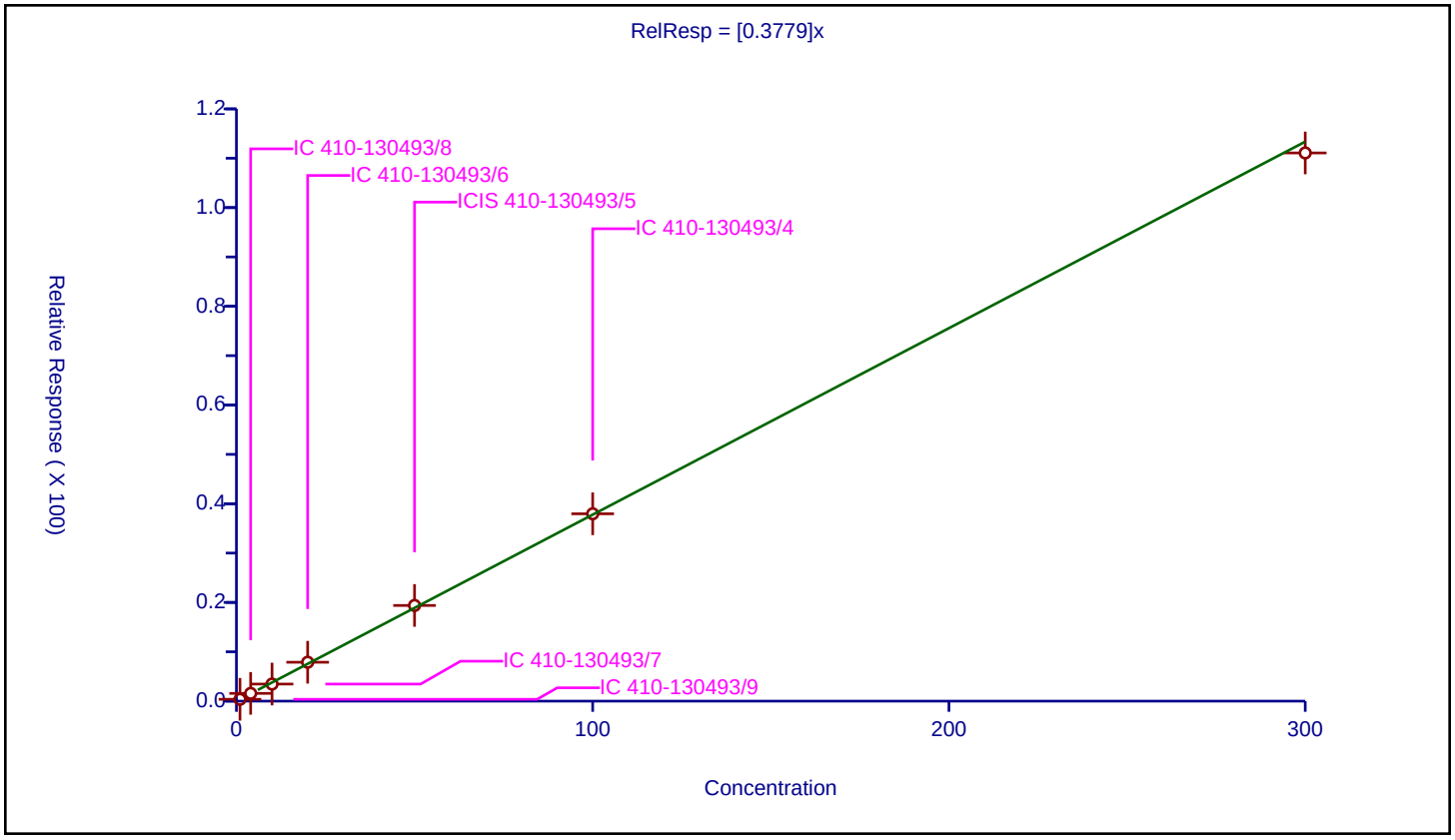
Curve Coefficients

Intercept:	0
Slope:	0.3779

Error Coefficients

Standard Error:	952000
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 410-130493/9	1.0	0.373546	50.0	931077.0	0.373546	Y
2	IC 410-130493/8	4.0	1.573163	50.0	910141.0	0.393291	Y
3	IC 410-130493/7	10.0	3.463952	50.0	918041.0	0.346395	Y
4	IC 410-130493/6	20.0	7.884078	50.0	937478.0	0.394204	Y
5	ICIS 410-130493/5	50.0	19.385853	50.0	957474.0	0.387717	Y
6	IC 410-130493/4	100.0	37.961808	50.0	958462.0	0.379618	Y
7	IC 410-130493/3	300.0	111.072802	50.0	980172.0	0.370243	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

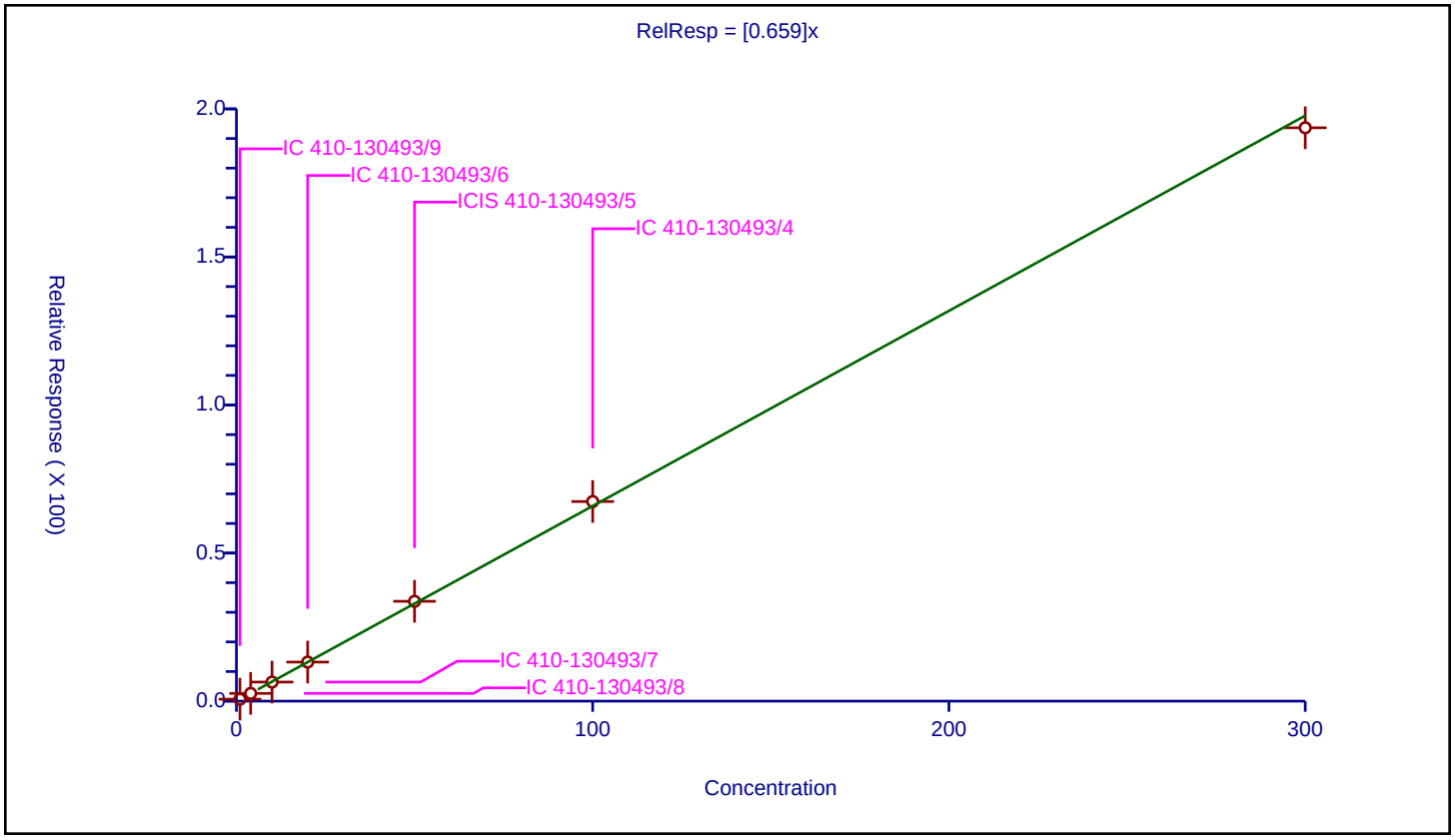
Curve Coefficients

Intercept:	0
Slope:	0.659

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.661331	50.0	931077.0	0.661331	Y
2	IC 410-130493/8	4.0	2.615199	50.0	910141.0	0.6538	Y
3	IC 410-130493/7	10.0	6.448841	50.0	918041.0	0.644884	Y
4	IC 410-130493/6	20.0	13.186549	50.0	937478.0	0.659327	Y
5	ICIS 410-130493/5	50.0	33.712456	50.0	957474.0	0.674249	Y
6	IC 410-130493/4	100.0	67.407419	50.0	958462.0	0.674074	Y
7	IC 410-130493/3	300.0	193.622548	50.0	980172.0	0.645408	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

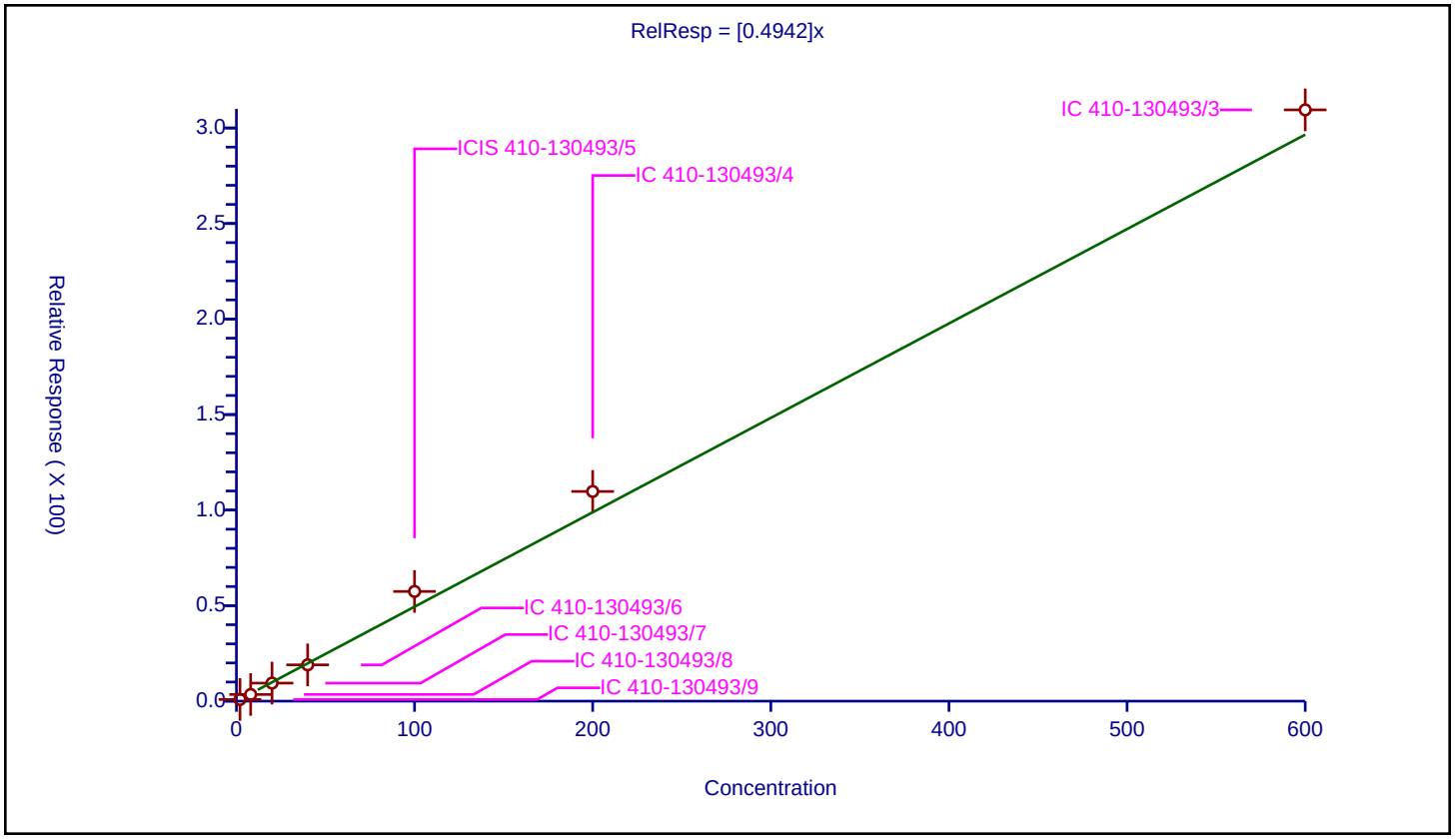
Curve Coefficients

Intercept:	0
Slope:	0.4942

Error Coefficients

Standard Error:	2660000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	2.0	0.875169	50.0	931077.0	0.437585	Y
2	IC 410-130493/8	8.0	3.487976	50.0	910141.0	0.435997	Y
3	IC 410-130493/7	20.0	9.446038	50.0	918041.0	0.472302	Y
4	IC 410-130493/6	40.0	18.990366	50.0	937478.0	0.474759	Y
5	ICIS 410-130493/5	100.0	57.418948	50.0	957474.0	0.574189	Y
6	IC 410-130493/4	200.0	109.748378	50.0	958462.0	0.548742	Y
7	IC 410-130493/3	600.0	309.487927	50.0	980172.0	0.515813	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

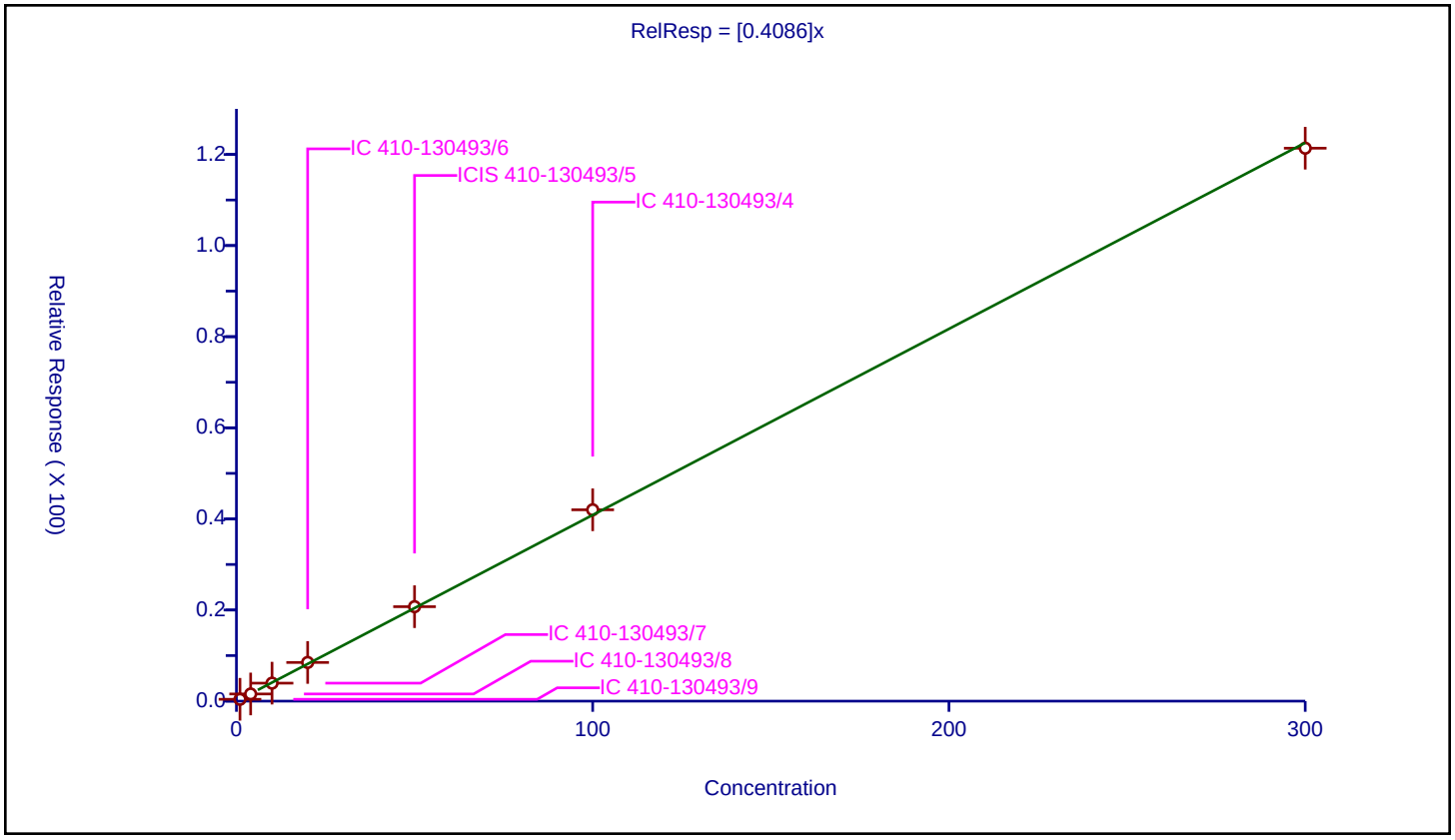
Curve Coefficients

Intercept:	0
Slope:	0.4086

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.4077	50.0	931077.0	0.4077	Y
2	IC 410-130493/8	4.0	1.573712	50.0	910141.0	0.393428	Y
3	IC 410-130493/7	10.0	3.948135	50.0	918041.0	0.394814	Y
4	IC 410-130493/6	20.0	8.492626	50.0	937478.0	0.424631	Y
5	ICIS 410-130493/5	50.0	20.735289	50.0	957474.0	0.414706	Y
6	IC 410-130493/4	100.0	42.001196	50.0	958462.0	0.420012	Y
7	IC 410-130493/3	300.0	121.372728	50.0	980172.0	0.404576	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

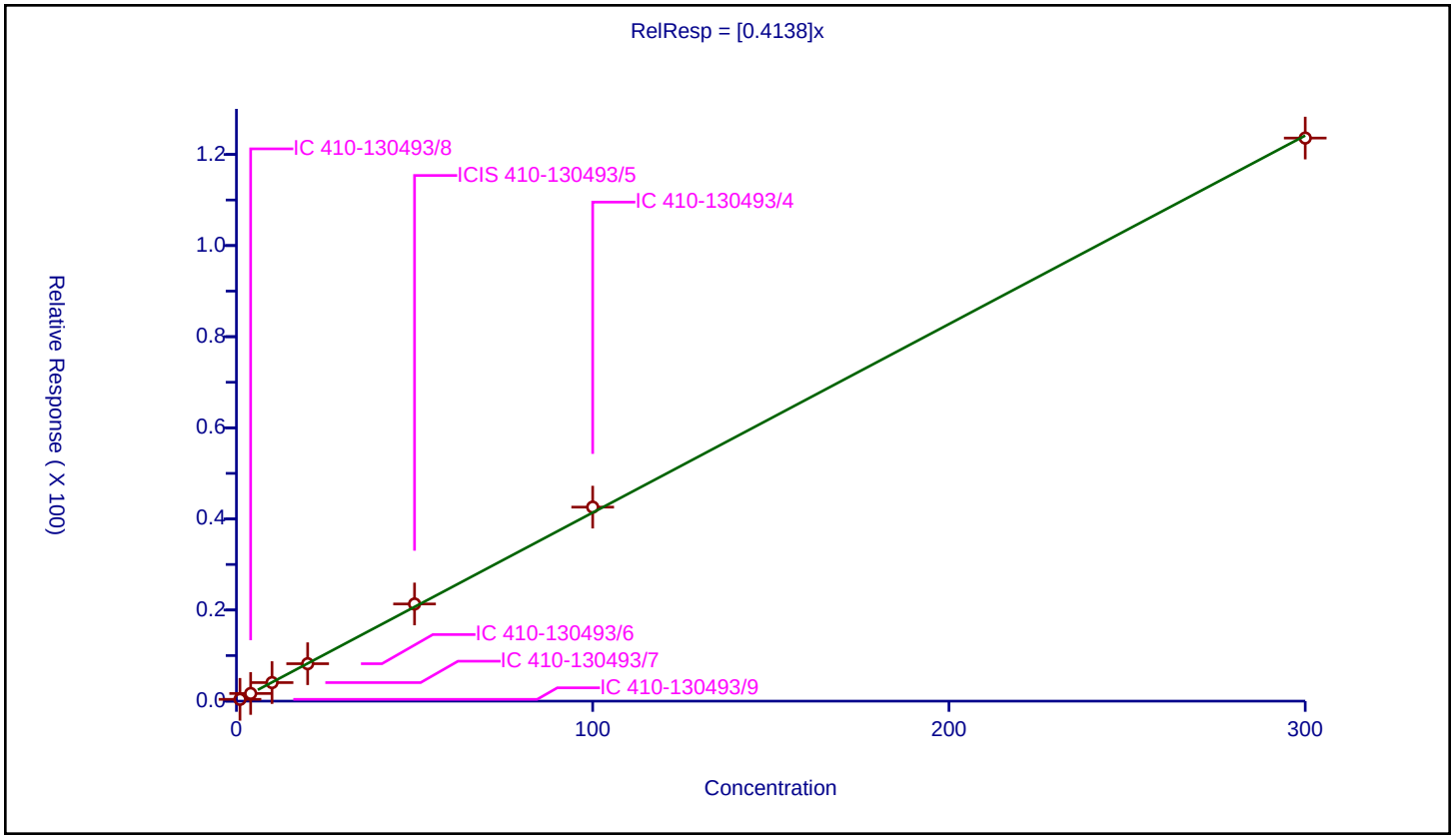
Curve Coefficients

Intercept:	0
Slope:	0.4138

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.394167	50.0	931077.0	0.394167	Y
2	IC 410-130493/8	4.0	1.680069	50.0	910141.0	0.420017	Y
3	IC 410-130493/7	10.0	4.073021	50.0	918041.0	0.407302	Y
4	IC 410-130493/6	20.0	8.215339	50.0	937478.0	0.410767	Y
5	ICIS 410-130493/5	50.0	21.329195	50.0	957474.0	0.426584	Y
6	IC 410-130493/4	100.0	42.585204	50.0	958462.0	0.425852	Y
7	IC 410-130493/3	300.0	123.599583	50.0	980172.0	0.411999	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

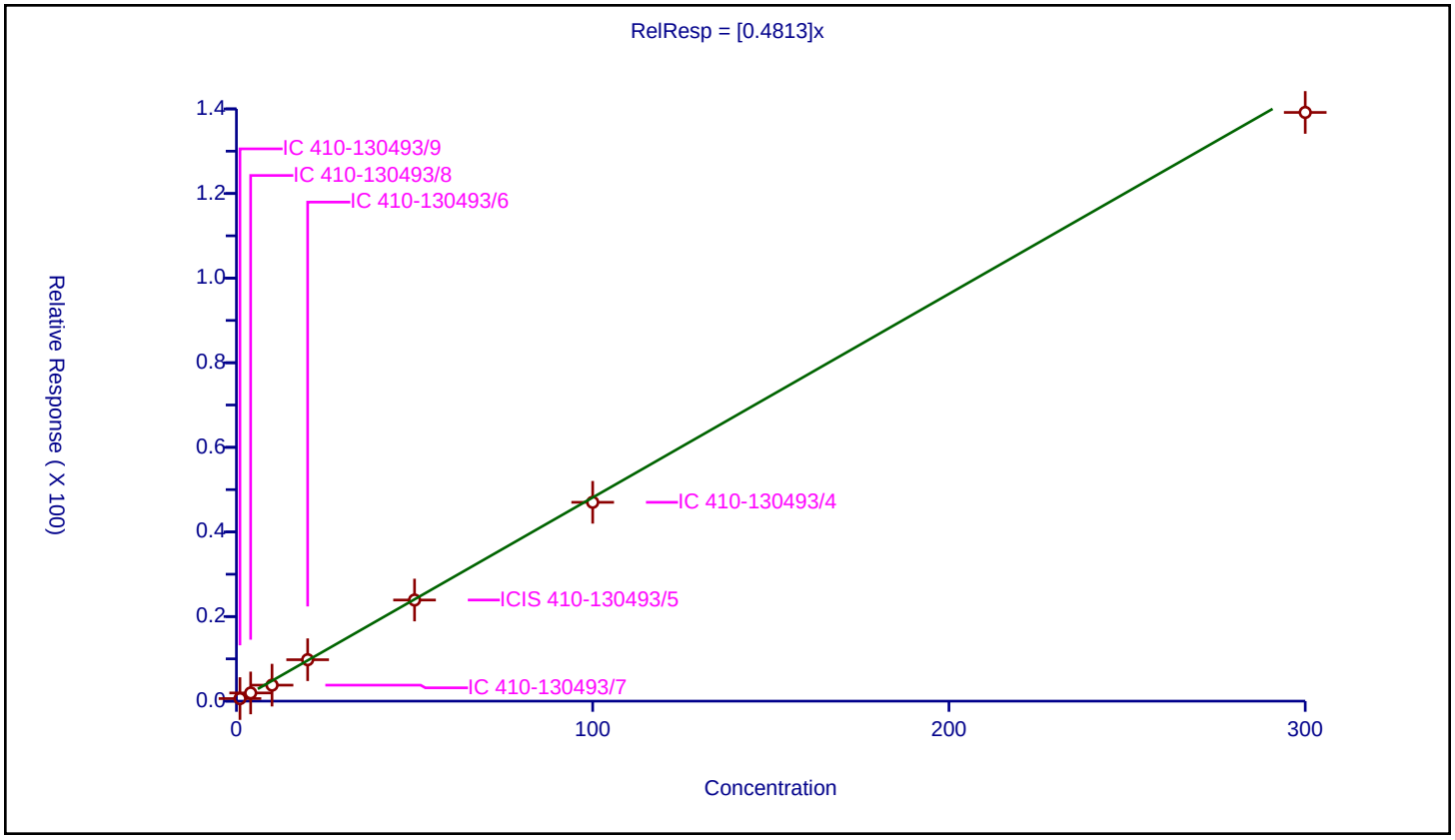
Curve Coefficients

Intercept:	0
Slope:	0.4813

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	13.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.605482	50.0	931077.0	0.605482	Y
2	IC 410-130493/8	4.0	1.937172	50.0	910141.0	0.484293	Y
3	IC 410-130493/7	10.0	3.781204	50.0	918041.0	0.37812	Y
4	IC 410-130493/6	20.0	9.792176	50.0	937478.0	0.489609	Y
5	ICIS 410-130493/5	50.0	23.90138	50.0	957474.0	0.478028	Y
6	IC 410-130493/4	100.0	47.003011	50.0	958462.0	0.47003	Y
7	IC 410-130493/3	300.0	139.161443	50.0	980172.0	0.463871	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

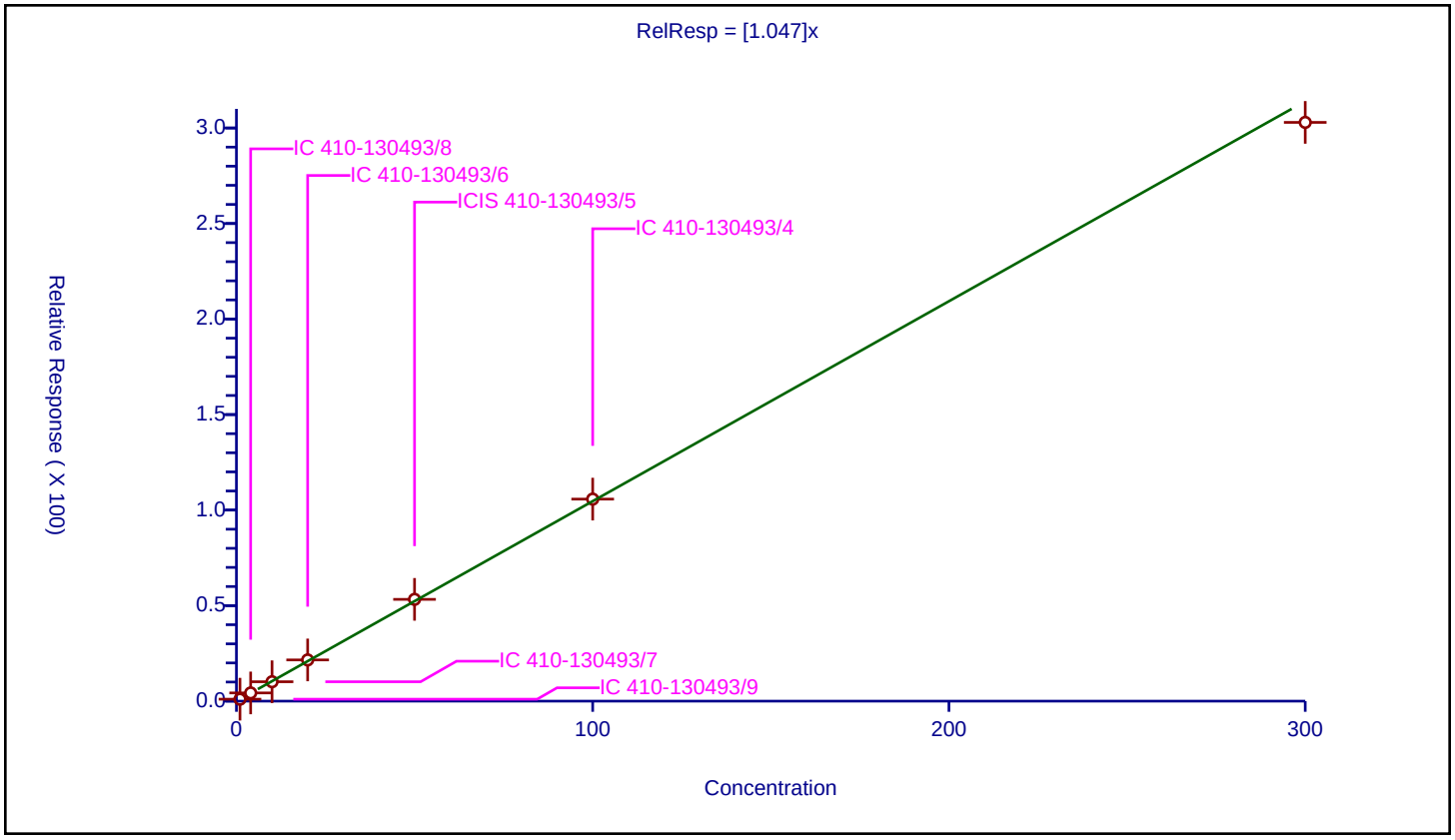
Curve Coefficients

Intercept:	0
Slope:	1.047

Error Coefficients

Standard Error:	2600000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	1.023653	50.0	931077.0	1.023653	Y
2	IC 410-130493/8	4.0	4.304113	50.0	910141.0	1.076028	Y
3	IC 410-130493/7	10.0	10.15276	50.0	918041.0	1.015276	Y
4	IC 410-130493/6	20.0	21.566906	50.0	937478.0	1.078345	Y
5	ICIS 410-130493/5	50.0	53.280559	50.0	957474.0	1.065611	Y
6	IC 410-130493/4	100.0	105.755262	50.0	958462.0	1.057553	Y
7	IC 410-130493/3	300.0	302.929588	50.0	980172.0	1.009765	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

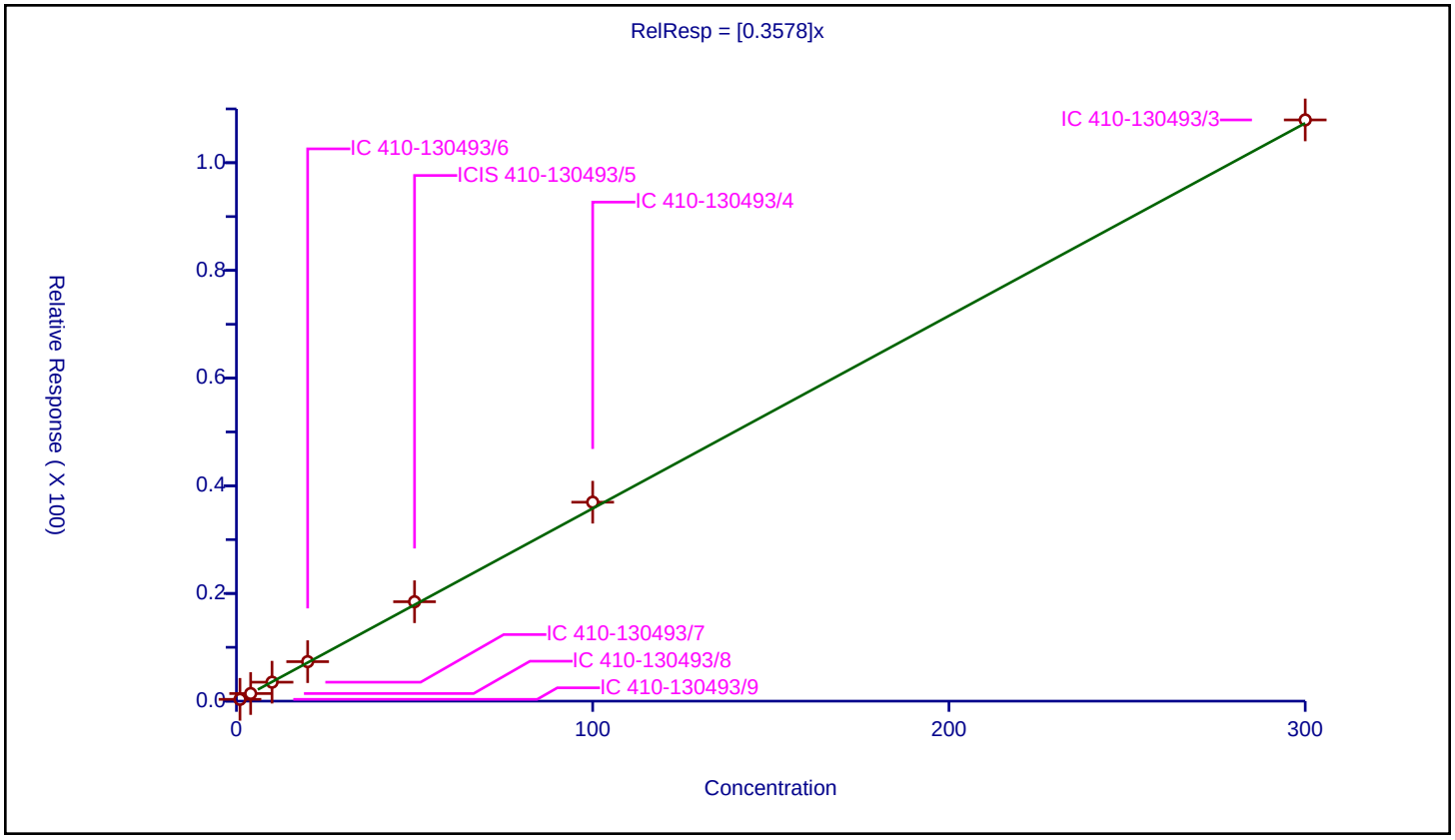
Curve Coefficients

Intercept:	0
Slope:	0.3578

Error Coefficients

Standard Error:	925000
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 410-130493/9	1.0	0.3337	50.0	931077.0	0.3337	Y
2	IC 410-130493/8	4.0	1.414451	50.0	910141.0	0.353613	Y
3	IC 410-130493/7	10.0	3.520431	50.0	918041.0	0.352043	Y
4	IC 410-130493/6	20.0	7.335105	50.0	937478.0	0.366755	Y
5	ICIS 410-130493/5	50.0	18.464627	50.0	957474.0	0.369293	Y
6	IC 410-130493/4	100.0	36.950709	50.0	958462.0	0.369507	Y
7	IC 410-130493/3	300.0	107.951207	50.0	980172.0	0.359837	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

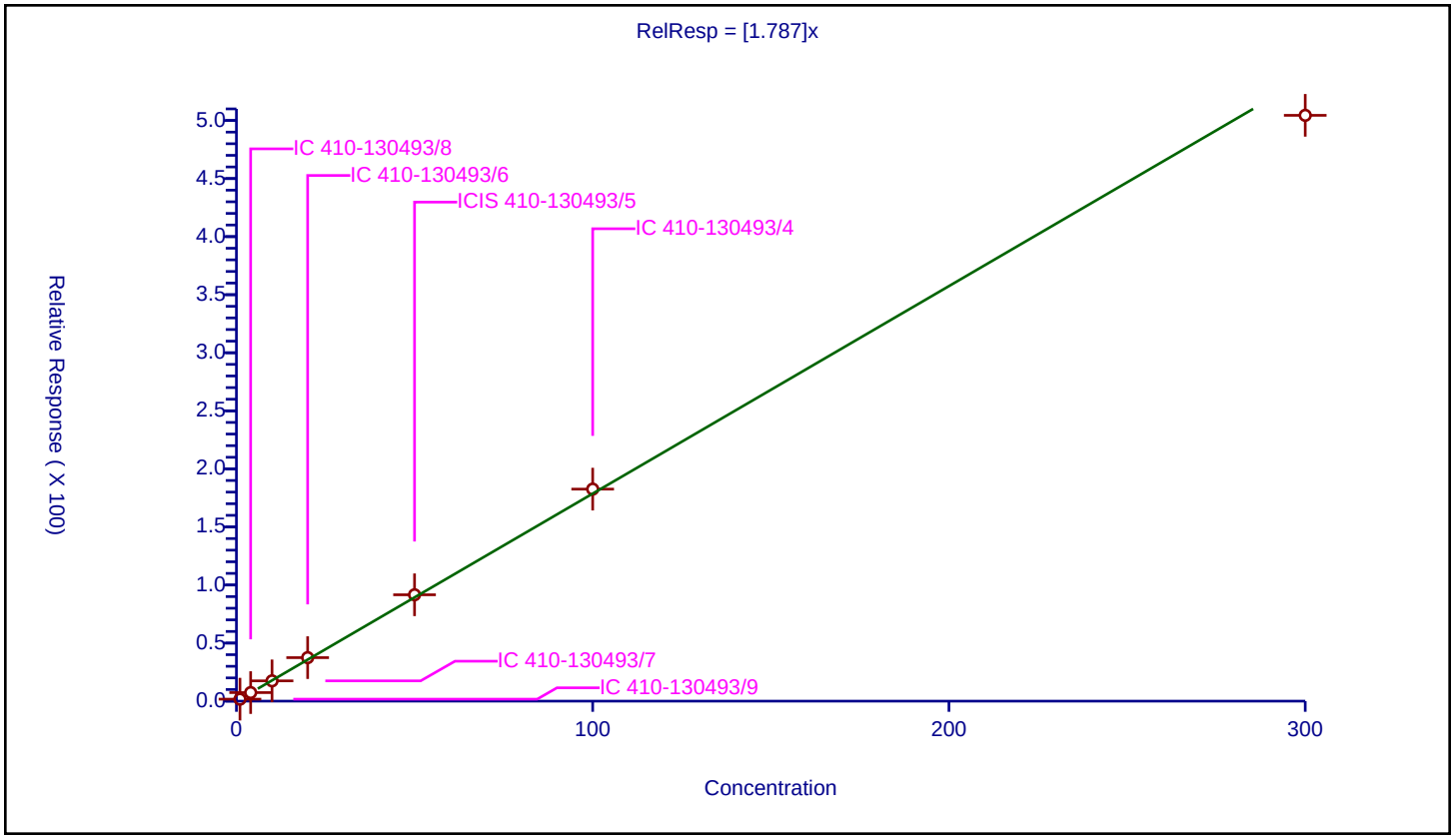
Curve Coefficients

Intercept:	0
Slope:	1.787

Error Coefficients

Standard Error:	4350000
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 410-130493/9	1.0	1.708129	50.0	931077.0	1.708129	Y
2	IC 410-130493/8	4.0	7.372539	50.0	910141.0	1.843135	Y
3	IC 410-130493/7	10.0	17.460985	50.0	918041.0	1.746098	Y
4	IC 410-130493/6	20.0	37.455386	50.0	937478.0	1.872769	Y
5	ICIS 410-130493/5	50.0	91.595333	50.0	957474.0	1.831907	Y
6	IC 410-130493/4	100.0	182.565089	50.0	958462.0	1.825651	Y
7	IC 410-130493/3	300.0	504.440751	50.0	980172.0	1.681469	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

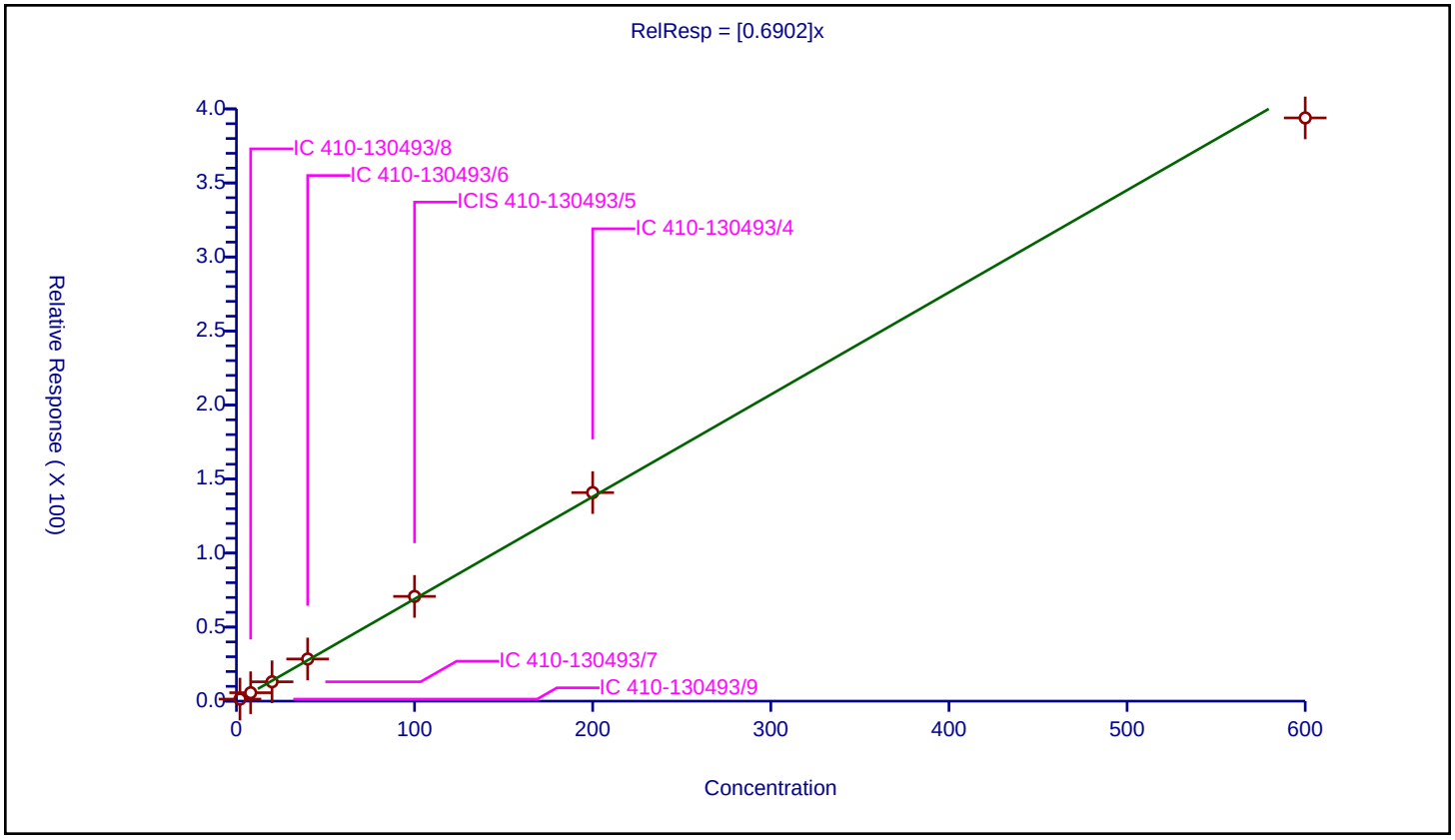
Curve Coefficients

Intercept:	0
Slope:	0.6902

Error Coefficients

Standard Error:	3390000
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 410-130493/9	2.0	1.374859	50.0	931077.0	0.68743	Y
2	IC 410-130493/8	8.0	5.685438	50.0	910141.0	0.71068	Y
3	IC 410-130493/7	20.0	13.064994	50.0	918041.0	0.65325	Y
4	IC 410-130493/6	40.0	28.469201	50.0	937478.0	0.71173	Y
5	ICIS 410-130493/5	100.0	70.743226	50.0	957474.0	0.707432	Y
6	IC 410-130493/4	200.0	140.863331	50.0	958462.0	0.704317	Y
7	IC 410-130493/3	600.0	393.908263	50.0	980172.0	0.656514	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

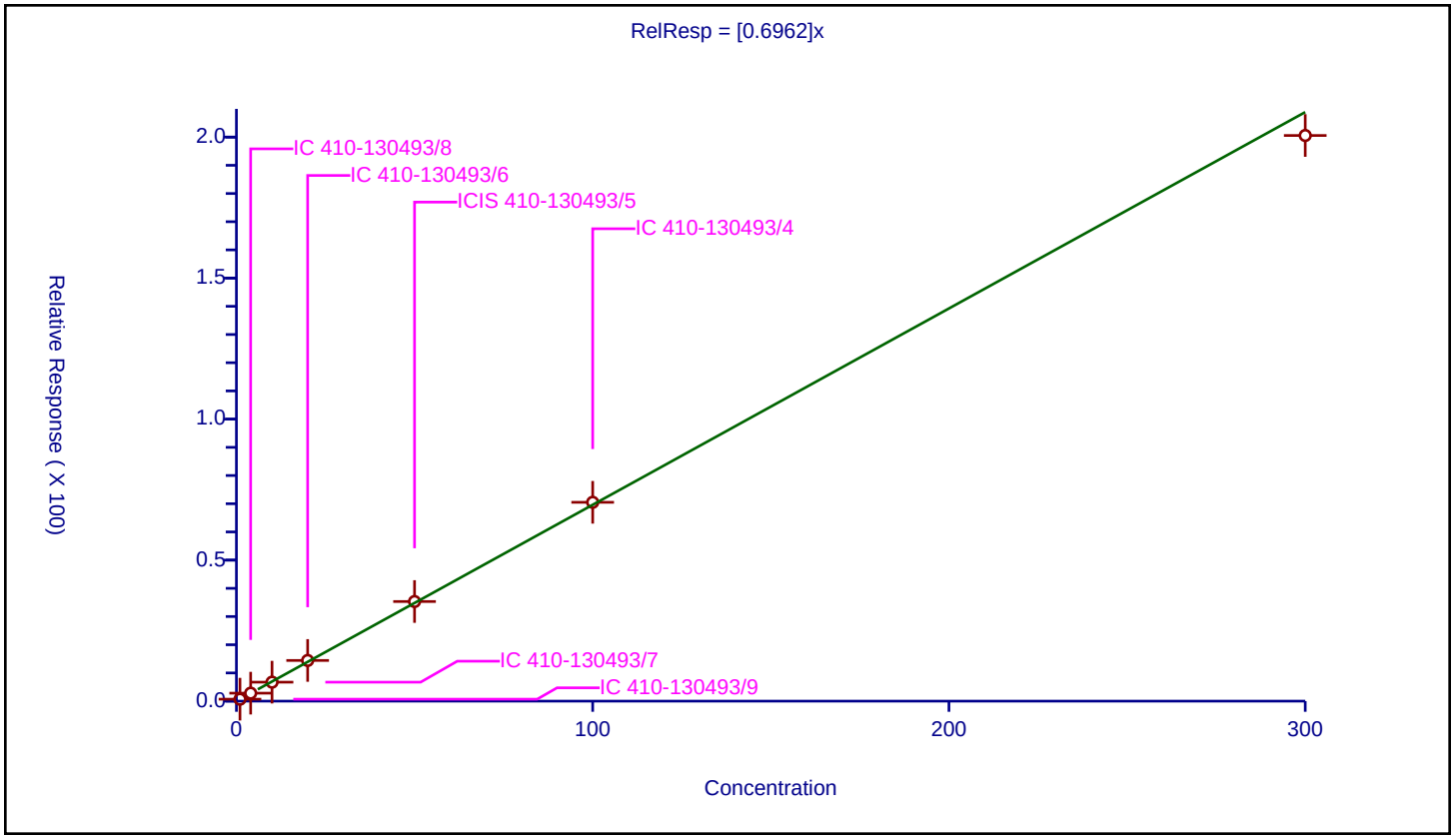
Curve Coefficients

Intercept:	0
Slope:	0.6962

Error Coefficients

Standard Error:	1720000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.692209	50.0	931077.0	0.692209	Y
2	IC 410-130493/8	4.0	2.829287	50.0	910141.0	0.707322	Y
3	IC 410-130493/7	10.0	6.725299	50.0	918041.0	0.67253	Y
4	IC 410-130493/6	20.0	14.421725	50.0	937478.0	0.721086	Y
5	ICIS 410-130493/5	50.0	35.324353	50.0	957474.0	0.706487	Y
6	IC 410-130493/4	100.0	70.503212	50.0	958462.0	0.705032	Y
7	IC 410-130493/3	300.0	200.564391	50.0	980172.0	0.668548	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

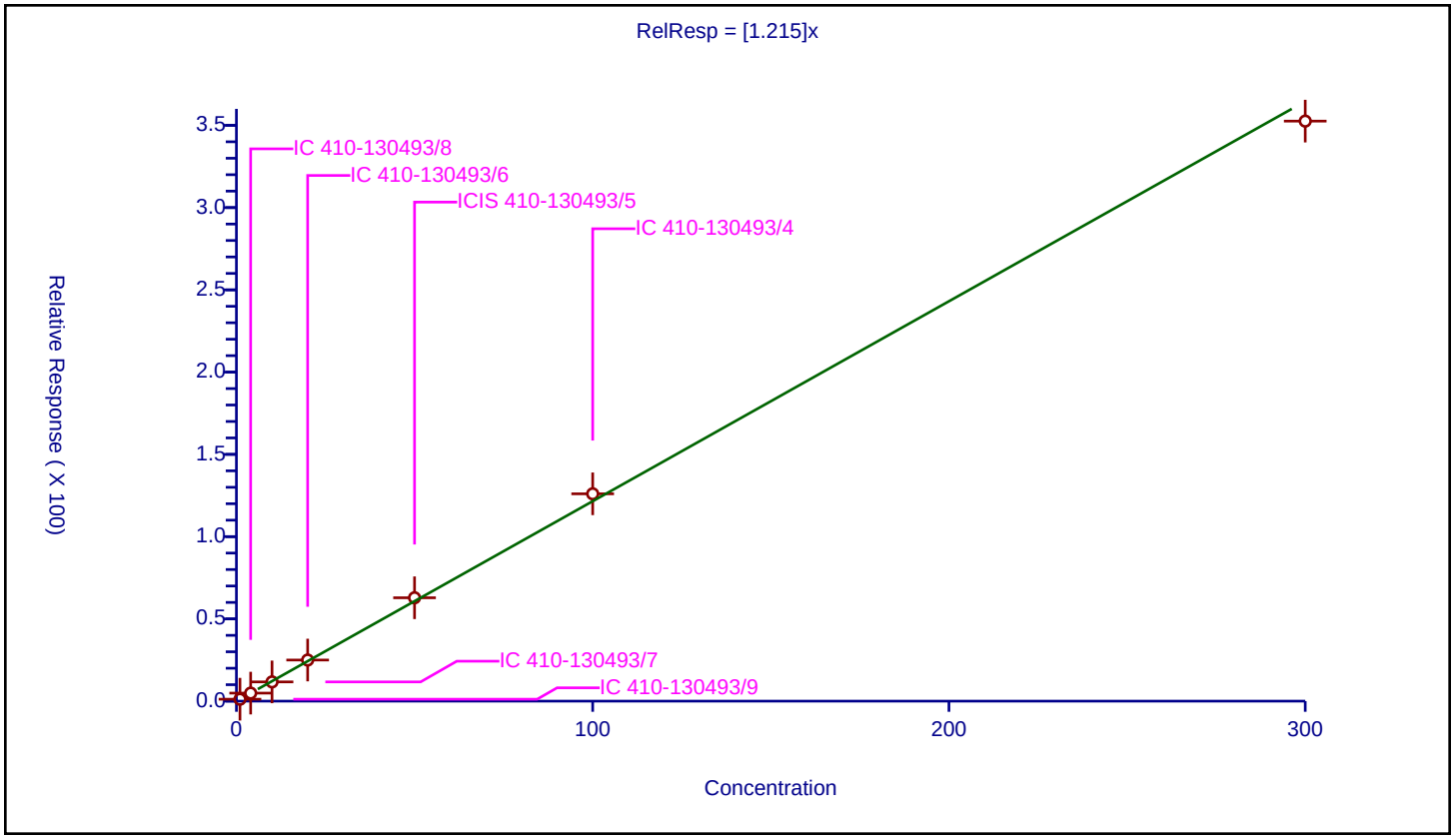
Curve Coefficients

Intercept:	0
Slope:	1.215

Error Coefficients

Standard Error:	3040000
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 410-130493/9	1.0	1.176756	50.0	931077.0	1.176756	Y
2	IC 410-130493/8	4.0	4.873531	50.0	910141.0	1.218383	Y
3	IC 410-130493/7	10.0	11.703344	50.0	918041.0	1.170334	Y
4	IC 410-130493/6	20.0	24.988426	50.0	937478.0	1.249421	Y
5	ICIS 410-130493/5	50.0	62.834918	50.0	957474.0	1.256698	Y
6	IC 410-130493/4	100.0	126.024767	50.0	958462.0	1.260248	Y
7	IC 410-130493/3	300.0	352.569804	50.0	980172.0	1.175233	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

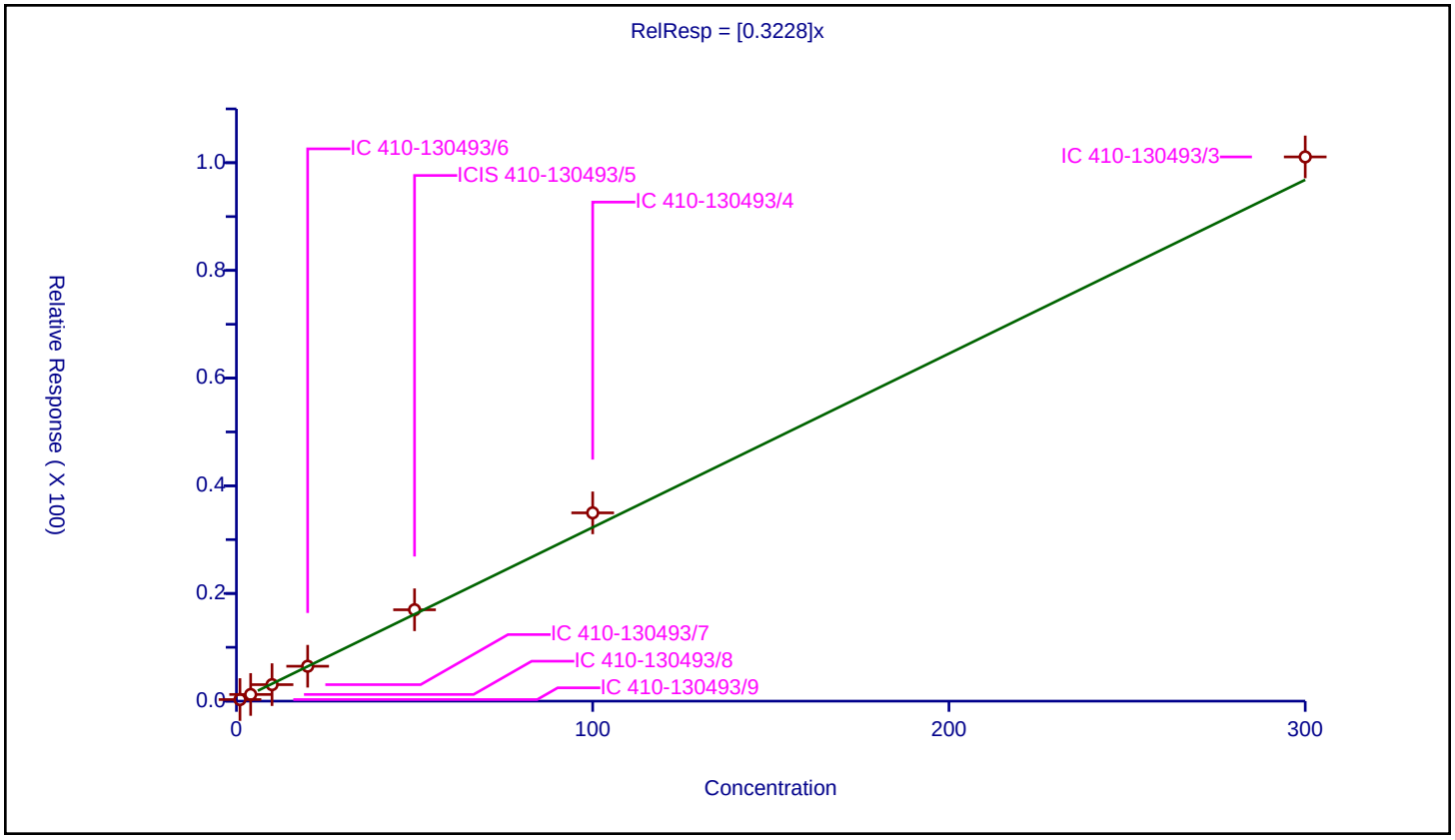
Curve Coefficients

Intercept:	0
Slope:	0.3228

Error Coefficients

Standard Error:	866000
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 410-130493/9	1.0	0.293048	50.0	931077.0	0.293048	Y
2	IC 410-130493/8	4.0	1.238105	50.0	910141.0	0.309526	Y
3	IC 410-130493/7	10.0	3.064297	50.0	918041.0	0.30643	Y
4	IC 410-130493/6	20.0	6.484952	50.0	937478.0	0.324248	Y
5	ICIS 410-130493/5	50.0	16.96845	50.0	957474.0	0.339369	Y
6	IC 410-130493/4	100.0	34.972748	50.0	958462.0	0.349727	Y
7	IC 410-130493/3	300.0	101.079147	50.0	980172.0	0.33693	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

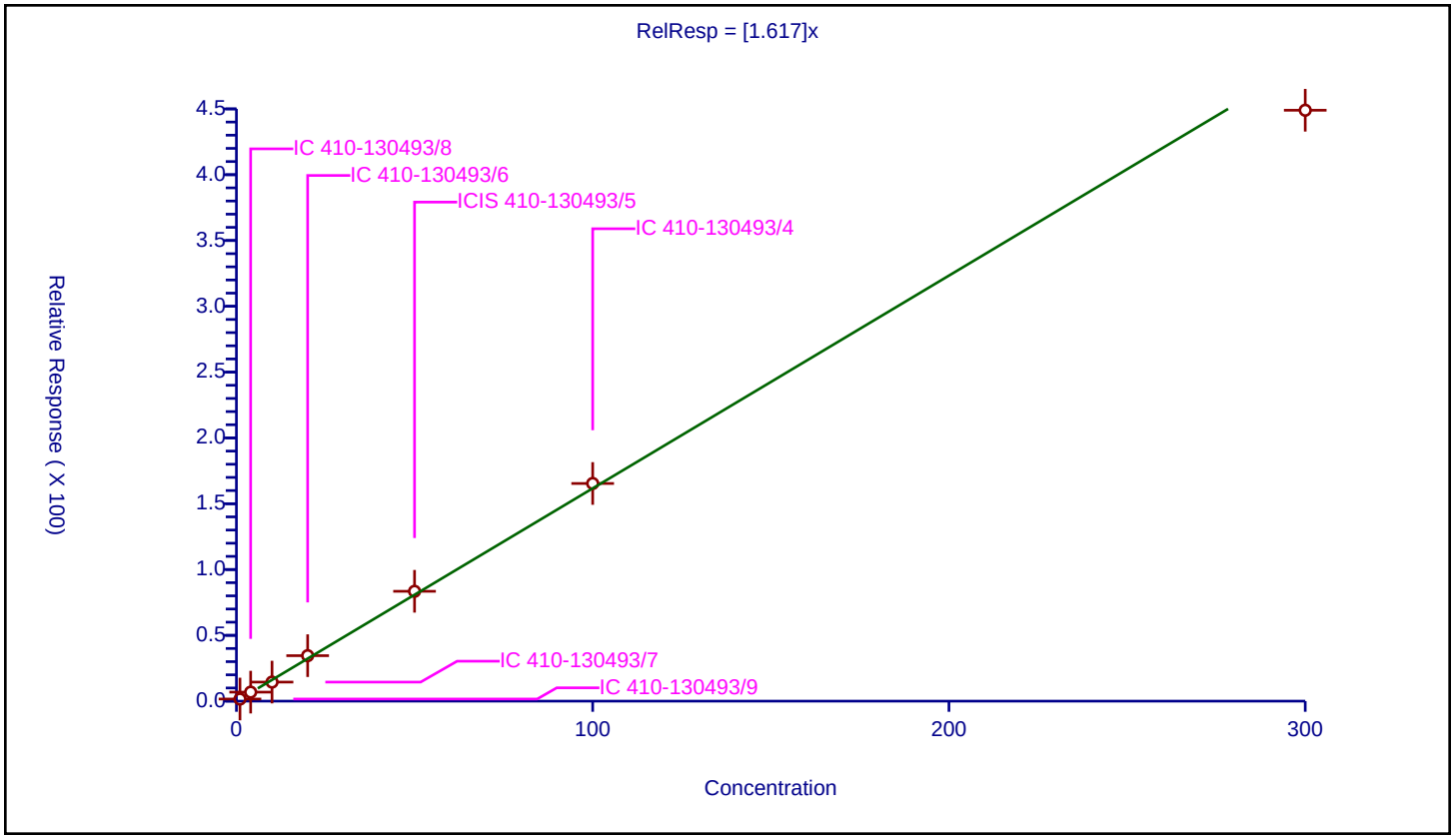
Curve Coefficients

Intercept:	0
Slope:	1.617

Error Coefficients

Standard Error:	3890000
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 410-130493/9	1.0	1.606419	50.0	931077.0	1.606419	Y
2	IC 410-130493/8	4.0	6.857564	50.0	910141.0	1.714391	Y
3	IC 410-130493/7	10.0	14.484103	50.0	918041.0	1.44841	Y
4	IC 410-130493/6	20.0	34.551744	50.0	937478.0	1.727587	Y
5	ICIS 410-130493/5	50.0	83.460856	50.0	957474.0	1.669217	Y
6	IC 410-130493/4	100.0	165.388247	50.0	958462.0	1.653882	Y
7	IC 410-130493/3	300.0	448.976098	50.0	980172.0	1.496587	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

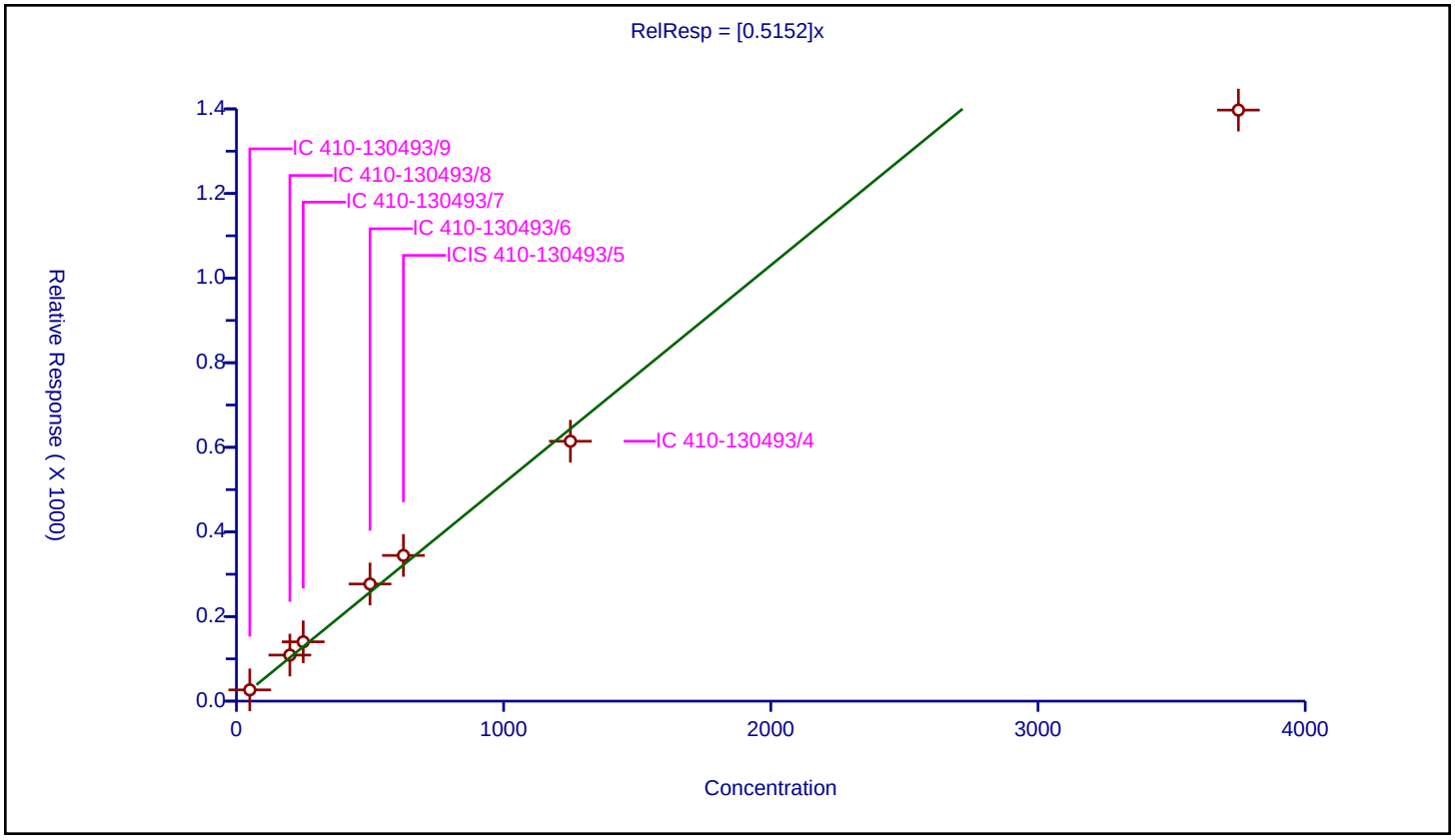
Curve Coefficients

Intercept:	0
Slope:	0.5152

Error Coefficients

Standard Error:	833000
Relative Standard Error:	13.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	50.000503	26.577224	250.0	310181.0	0.531539	Y
2	IC 410-130493/8	200.002013	108.909177	250.0	280082.0	0.54454	Y
3	IC 410-130493/7	250.002516	140.269508	250.0	262181.0	0.561072	Y
4	IC 410-130493/6	500.005032	276.921392	250.0	264743.0	0.553837	Y
5	ICIS 410-130493/5	625.00629	344.417803	250.0	309457.0	0.551063	Y
6	IC 410-130493/4	1250.01258	614.415112	250.0	299023.0	0.491527	Y
7	IC 410-130493/3	3750.03774	1397.220102	250.0	326163.0	0.372588	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

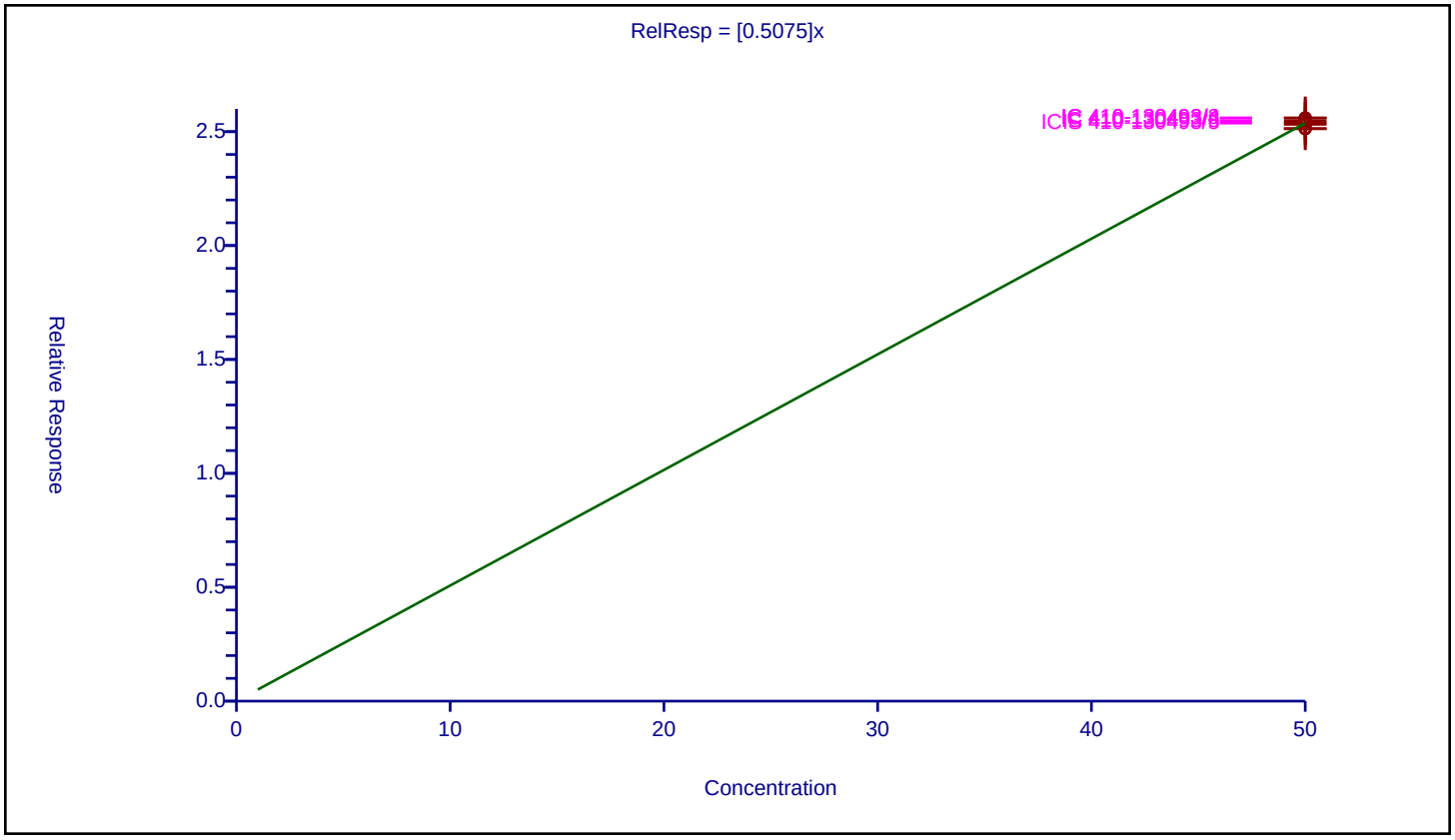
Curve Coefficients

Intercept:	0
Slope:	0.5075

Error Coefficients

Standard Error:	517000
Relative Standard Error:	0.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000333

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/3	50.0	25.605965	50.0	980172.0	0.512119	Y
2	IC 410-130493/4	50.0	25.592564	50.0	958462.0	0.511851	Y
3	ICIS 410-130493/5	50.0	25.375519	50.0	957474.0	0.50751	Y
4	IC 410-130493/6	50.0	25.127683	50.0	937478.0	0.502554	Y
5	IC 410-130493/7	50.0	25.320819	50.0	918041.0	0.506416	Y
6	IC 410-130493/8	50.0	25.466329	50.0	910141.0	0.509327	Y
7	IC 410-130493/9	50.0	25.135461	50.0	931077.0	0.502709	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

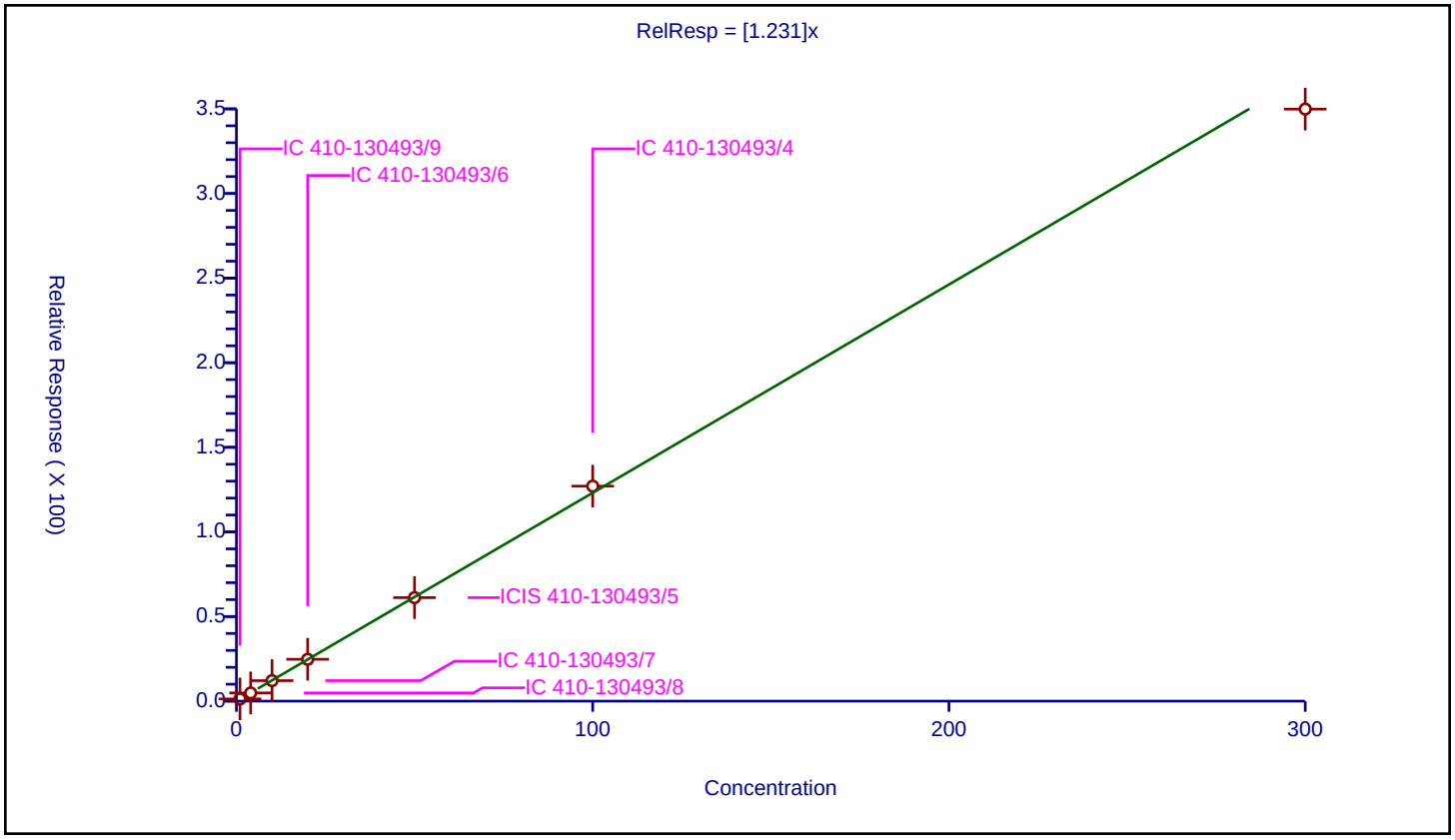
Curve Coefficients

Intercept:	0
Slope:	1.231

Error Coefficients

Standard Error:	1650000
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 410-130493/9	1.0	1.29468	50.0	492245.0	1.29468	Y
2	IC 410-130493/8	4.0	4.856189	50.0	486297.0	1.214047	Y
3	IC 410-130493/7	10.0	12.11929	50.0	491155.0	1.211929	Y
4	IC 410-130493/6	20.0	24.727861	50.0	502868.0	1.236393	Y
5	ICIS 410-130493/5	50.0	61.159192	50.0	519957.0	1.223184	Y
6	IC 410-130493/4	100.0	127.064637	50.0	517803.0	1.270646	Y
7	IC 410-130493/3	300.0	349.873626	50.0	535712.0	1.166245	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

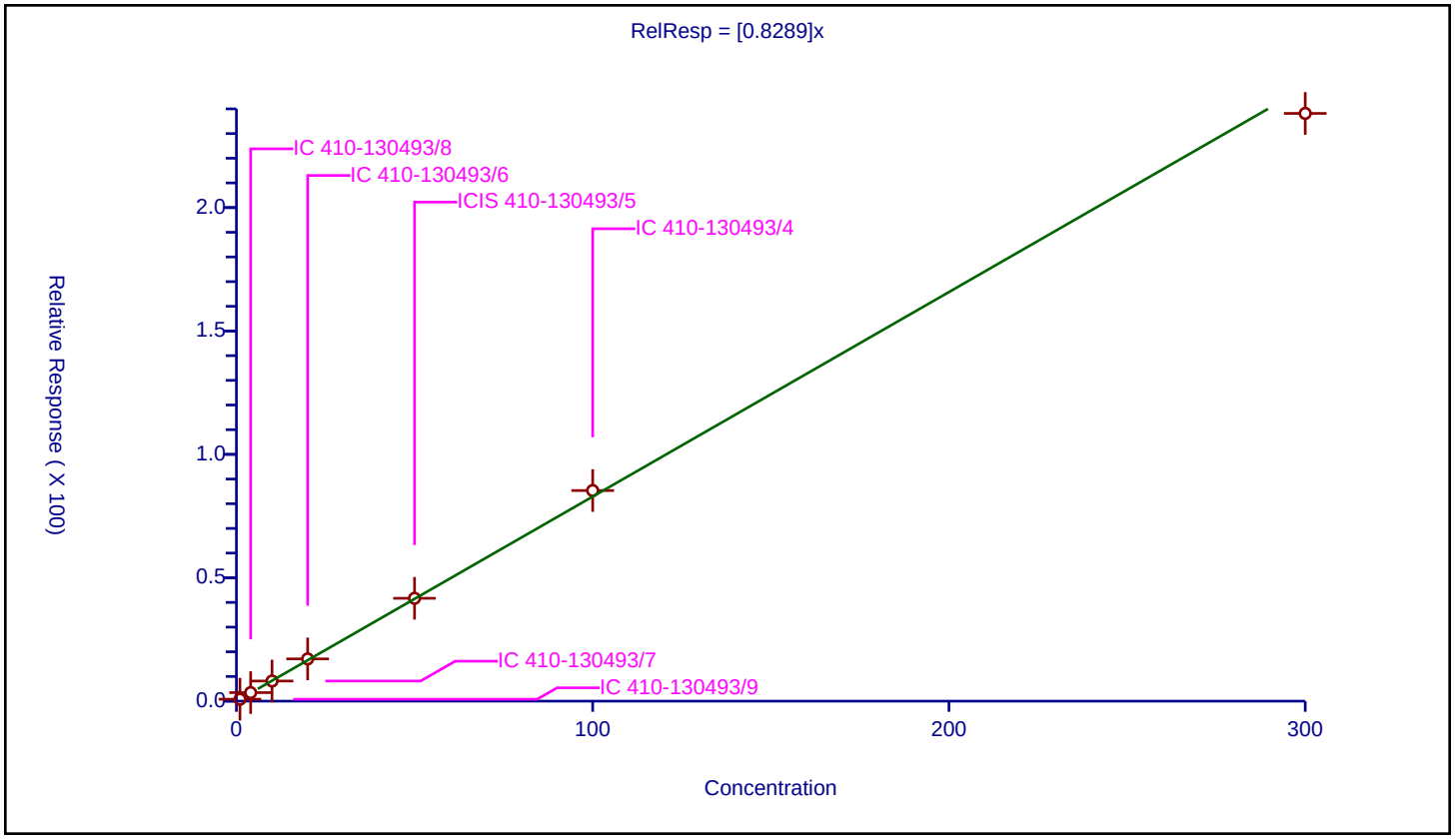
Curve Coefficients

Intercept:	0
Slope:	0.8289

Error Coefficients

Standard Error:	1120000
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 410-130493/9	1.0	0.784061	50.0	492245.0	0.784061	Y
2	IC 410-130493/8	4.0	3.461876	50.0	486297.0	0.865469	Y
3	IC 410-130493/7	10.0	8.157201	50.0	491155.0	0.81572	Y
4	IC 410-130493/6	20.0	17.121093	50.0	502868.0	0.856055	Y
5	ICIS 410-130493/5	50.0	41.672292	50.0	519957.0	0.833446	Y
6	IC 410-130493/4	100.0	85.35022	50.0	517803.0	0.853502	Y
7	IC 410-130493/3	300.0	238.162576	50.0	535712.0	0.793875	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

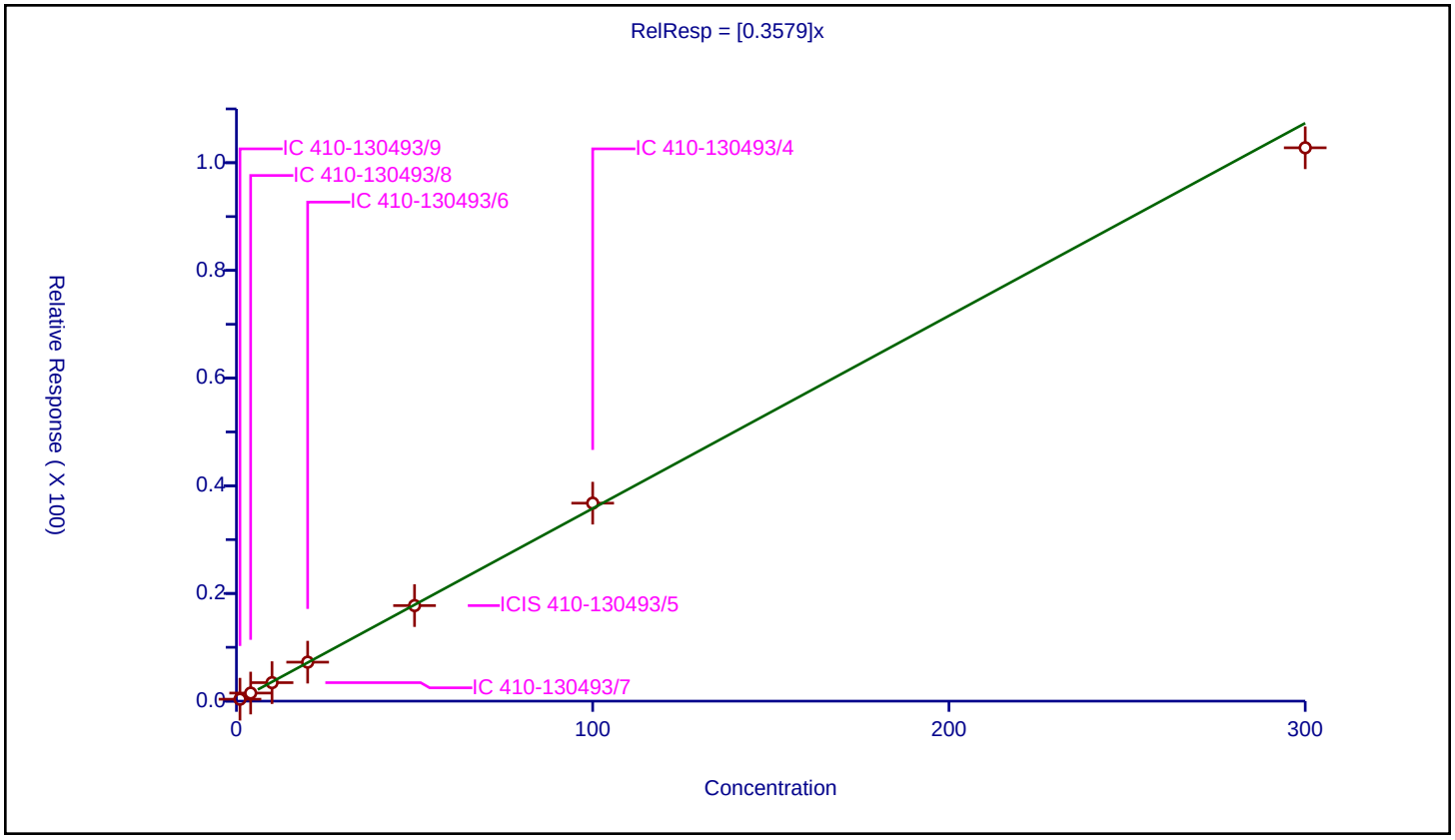
Curve Coefficients

Intercept:	0
Slope:	0.3579

Error Coefficients

Standard Error:	483000
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 410-130493/9	1.0	0.358968	50.0	492245.0	0.358968	Y
2	IC 410-130493/8	4.0	1.501654	50.0	486297.0	0.375414	Y
3	IC 410-130493/7	10.0	3.433132	50.0	491155.0	0.343313	Y
4	IC 410-130493/6	20.0	7.240866	50.0	502868.0	0.362043	Y
5	ICIS 410-130493/5	50.0	17.745025	50.0	519957.0	0.354901	Y
6	IC 410-130493/4	100.0	36.772479	50.0	517803.0	0.367725	Y
7	IC 410-130493/3	300.0	102.776772	50.0	535712.0	0.342589	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

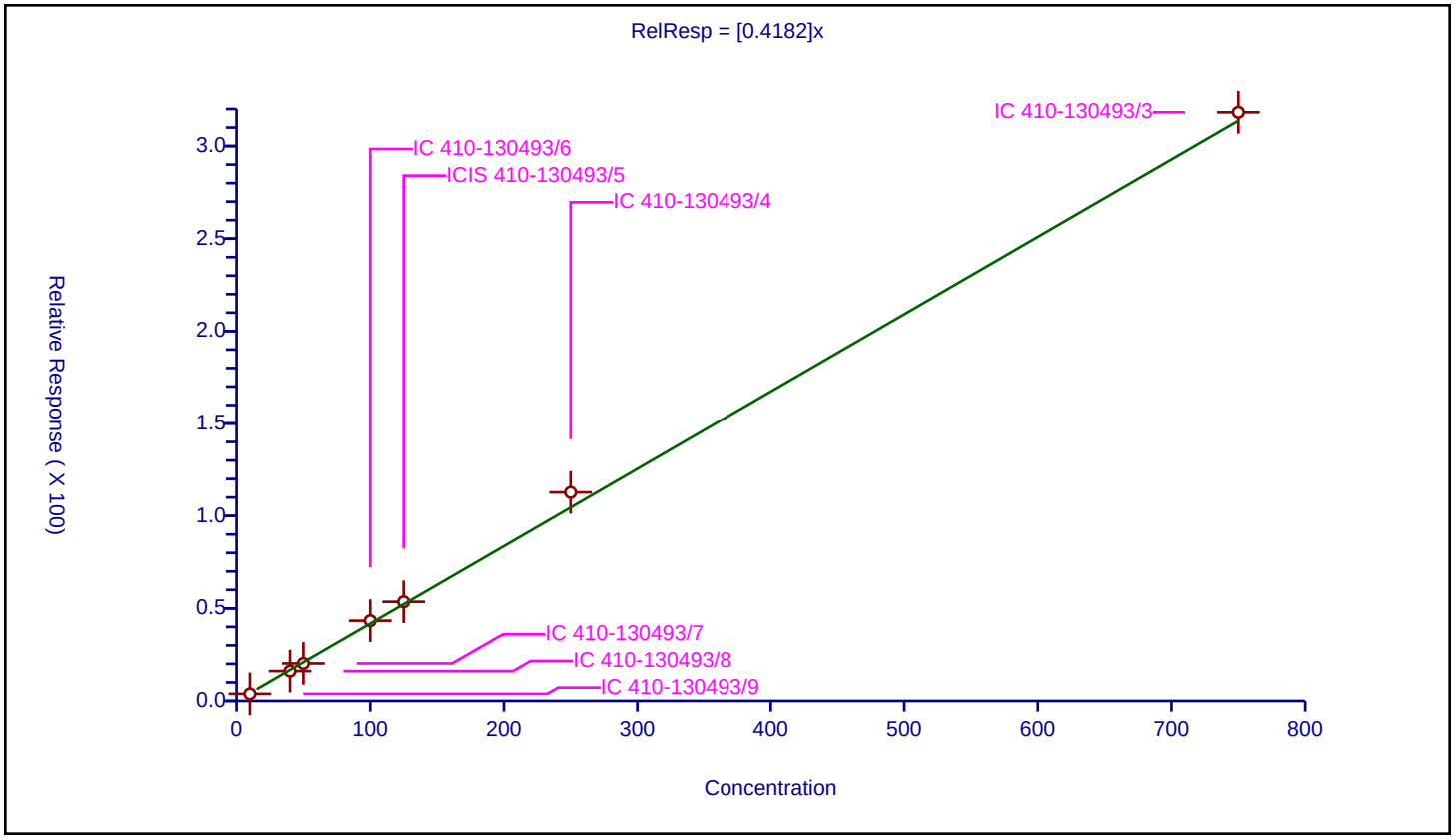
Curve Coefficients

Intercept:	0
Slope:	0.4182

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	10.0	3.817611	50.0	492245.0	0.381761	Y
2	IC 410-130493/8	40.0	16.127593	50.0	486297.0	0.40319	Y
3	IC 410-130493/7	50.0	20.251346	50.0	491155.0	0.405027	Y
4	IC 410-130493/6	100.0	43.361081	50.0	502868.0	0.433611	Y
5	ICIS 410-130493/5	125.0	53.593086	50.0	519957.0	0.428745	Y
6	IC 410-130493/4	250.0	112.743167	50.0	517803.0	0.450973	Y
7	IC 410-130493/3	750.0	318.218184	50.0	535712.0	0.424291	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

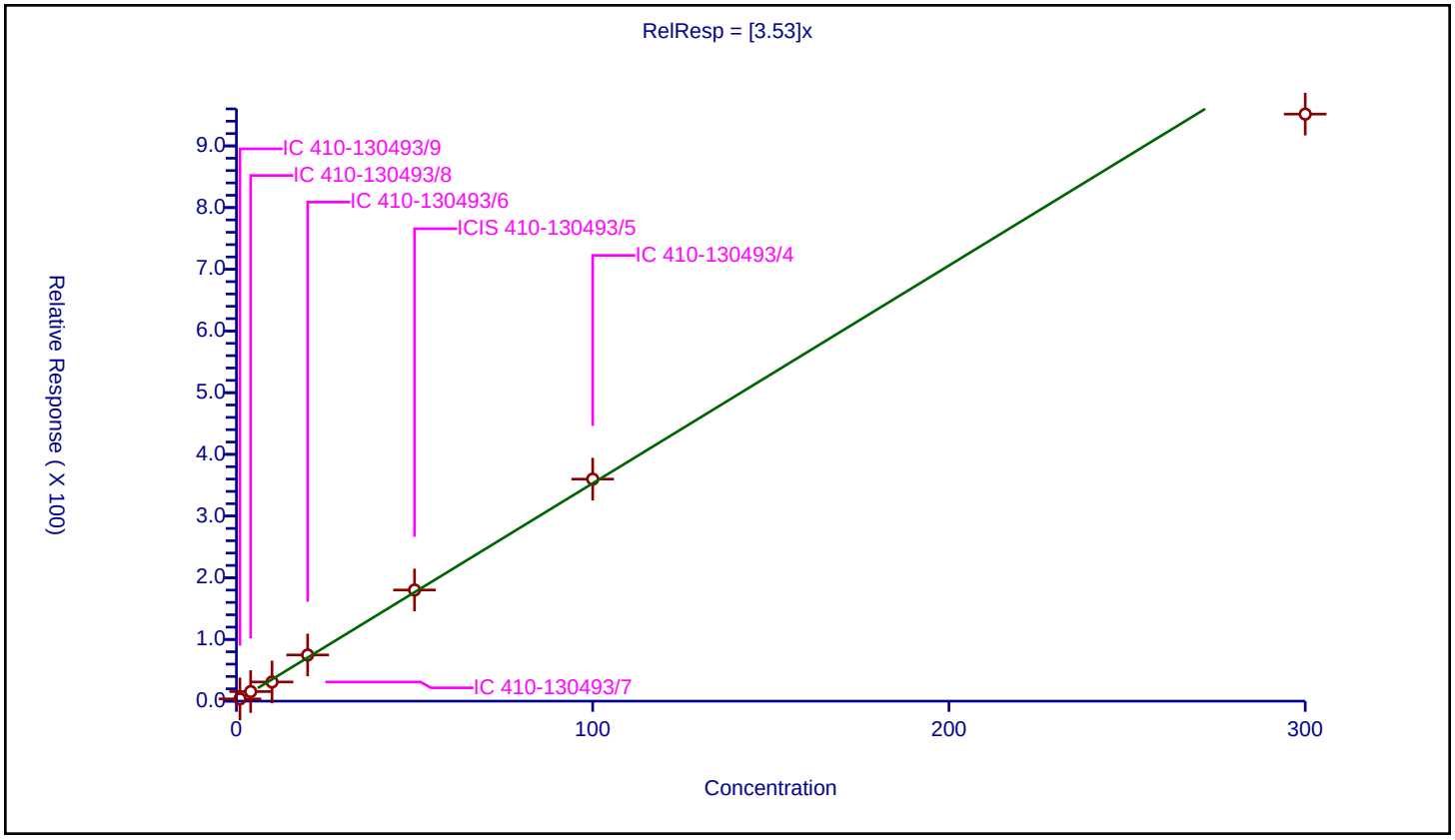
Curve Coefficients

Intercept:	0
Slope:	3.53

Error Coefficients

Standard Error:	4510000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	3.615476	50.0	492245.0	3.615476	Y
2	IC 410-130493/8	4.0	15.500096	50.0	486297.0	3.875024	Y
3	IC 410-130493/7	10.0	31.07125	50.0	491155.0	3.107125	Y
4	IC 410-130493/6	20.0	74.84827	50.0	502868.0	3.742414	Y
5	ICIS 410-130493/5	50.0	180.129703	50.0	519957.0	3.602594	Y
6	IC 410-130493/4	100.0	359.863211	50.0	517803.0	3.598632	Y
7	IC 410-130493/3	300.0	951.54598	50.0	535712.0	3.17182	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

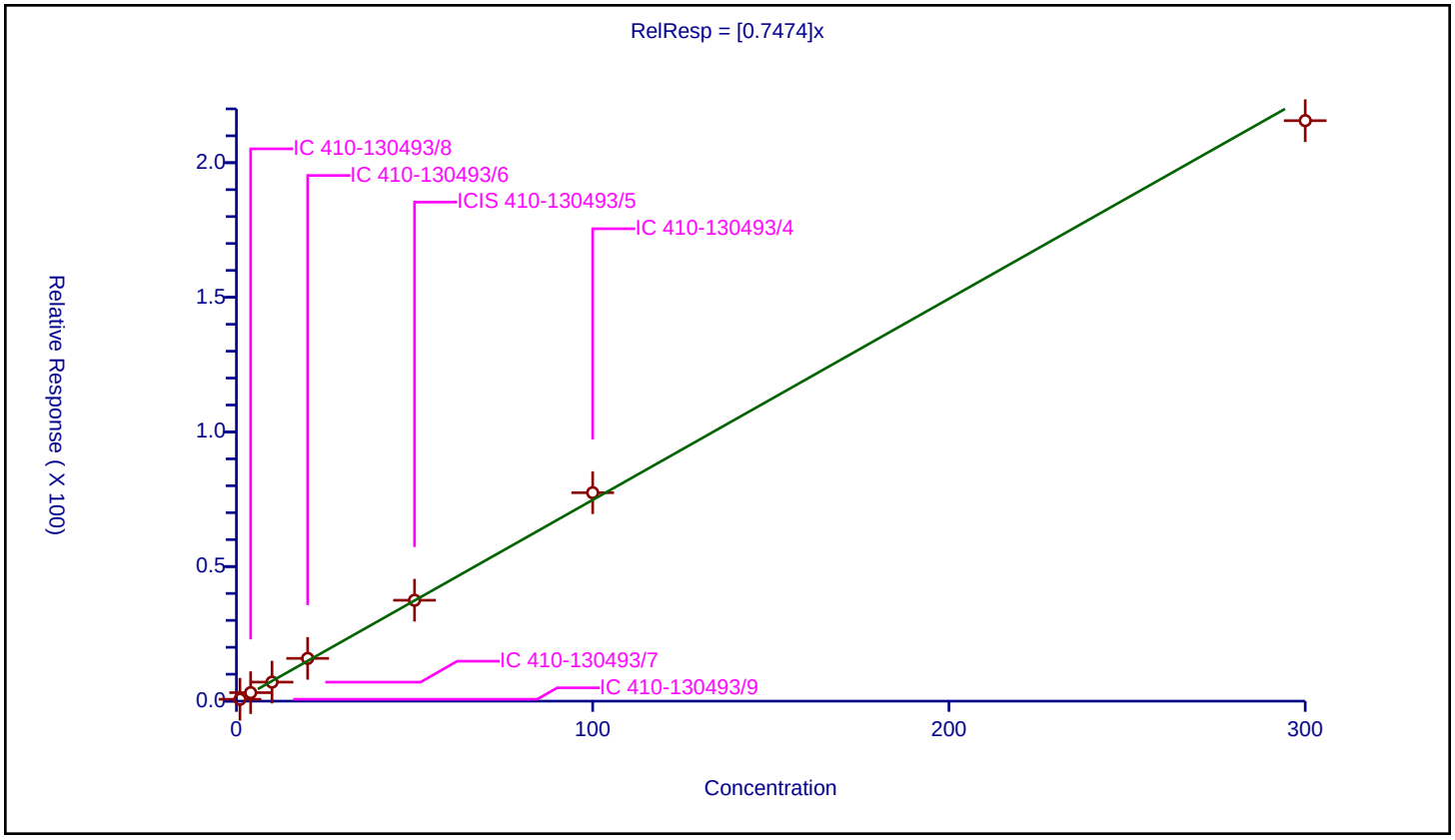
Curve Coefficients

Intercept:	0
Slope:	0.7474

Error Coefficients

Standard Error:	1010000
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 410-130493/9	1.0	0.699042	50.0	492245.0	0.699042	Y
2	IC 410-130493/8	4.0	3.155993	50.0	486297.0	0.788998	Y
3	IC 410-130493/7	10.0	7.067932	50.0	491155.0	0.706793	Y
4	IC 410-130493/6	20.0	15.885282	50.0	502868.0	0.794264	Y
5	ICIS 410-130493/5	50.0	37.486658	50.0	519957.0	0.749733	Y
6	IC 410-130493/4	100.0	77.42964	50.0	517803.0	0.774296	Y
7	IC 410-130493/3	300.0	215.630693	50.0	535712.0	0.718769	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

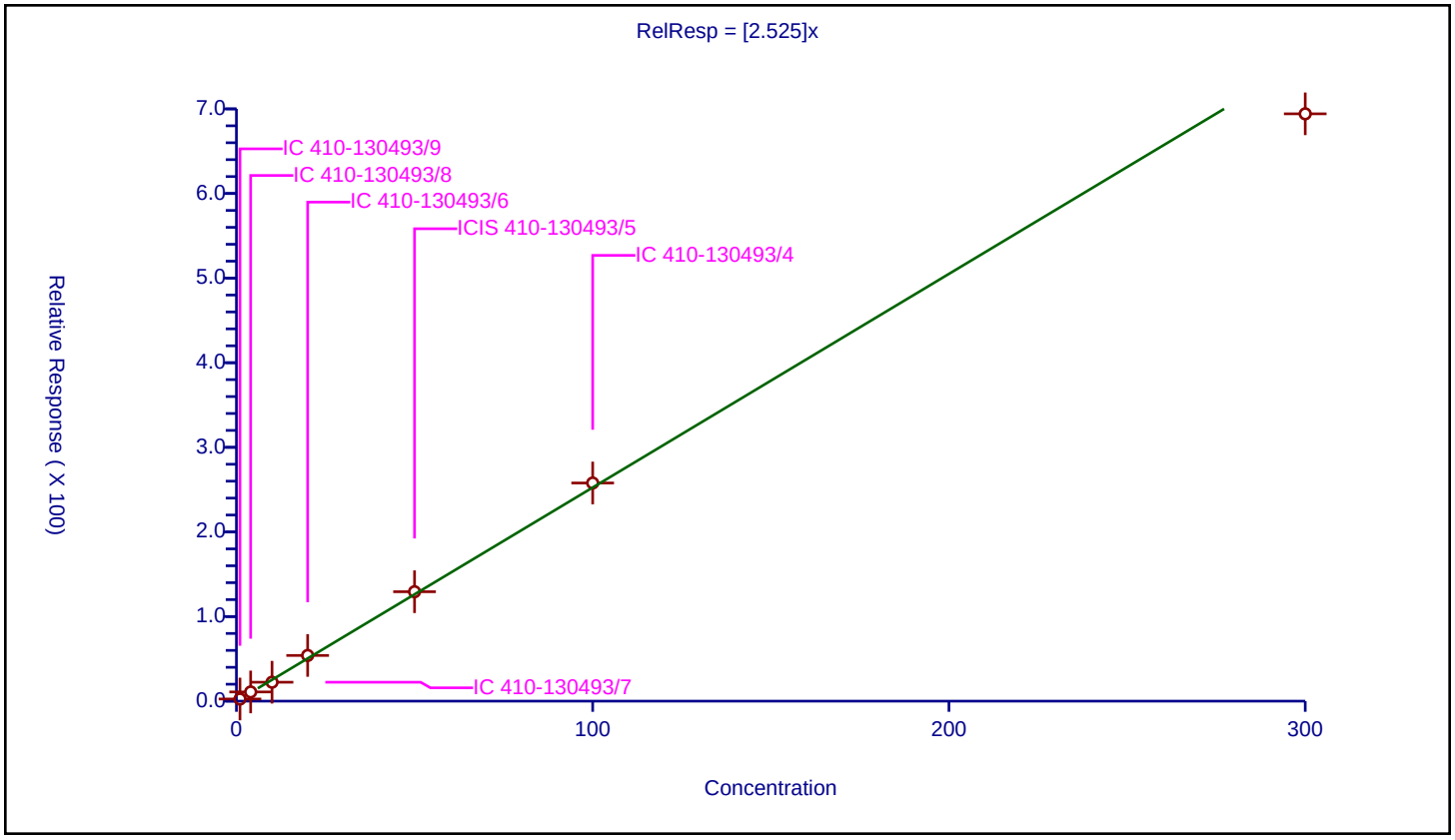
Curve Coefficients

Intercept:	0
Slope:	2.525

Error Coefficients

Standard Error:	3280000
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 410-130493/9	1.0	2.53898	50.0	492245.0	2.53898	Y
2	IC 410-130493/8	4.0	10.878023	50.0	486297.0	2.719506	Y
3	IC 410-130493/7	10.0	22.375421	50.0	491155.0	2.237542	Y
4	IC 410-130493/6	20.0	53.998167	50.0	502868.0	2.699908	Y
5	ICIS 410-130493/5	50.0	129.321271	50.0	519957.0	2.586425	Y
6	IC 410-130493/4	100.0	257.821507	50.0	517803.0	2.578215	Y
7	IC 410-130493/3	300.0	694.170842	50.0	535712.0	2.313903	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

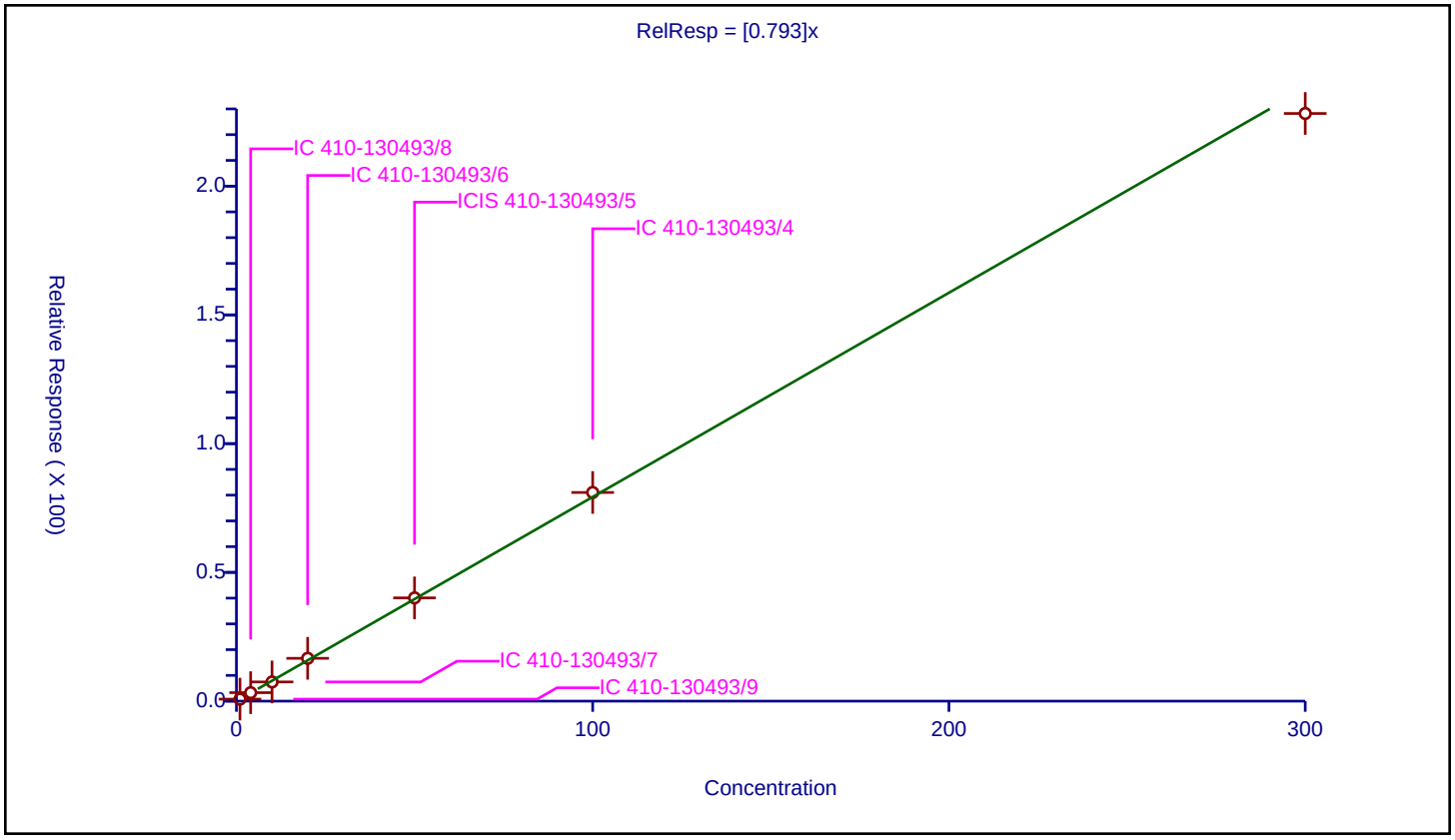
Curve Coefficients

Intercept:	0
Slope:	0.793

Error Coefficients

Standard Error:	1070000
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 410-130493/9	1.0	0.778271	50.0	492245.0	0.778271	Y
2	IC 410-130493/8	4.0	3.293666	50.0	486297.0	0.823417	Y
3	IC 410-130493/7	10.0	7.447751	50.0	491155.0	0.744775	Y
4	IC 410-130493/6	20.0	16.625834	50.0	502868.0	0.831292	Y
5	ICIS 410-130493/5	50.0	40.100335	50.0	519957.0	0.802007	Y
6	IC 410-130493/4	100.0	81.032072	50.0	517803.0	0.810321	Y
7	IC 410-130493/3	300.0	228.223374	50.0	535712.0	0.760745	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

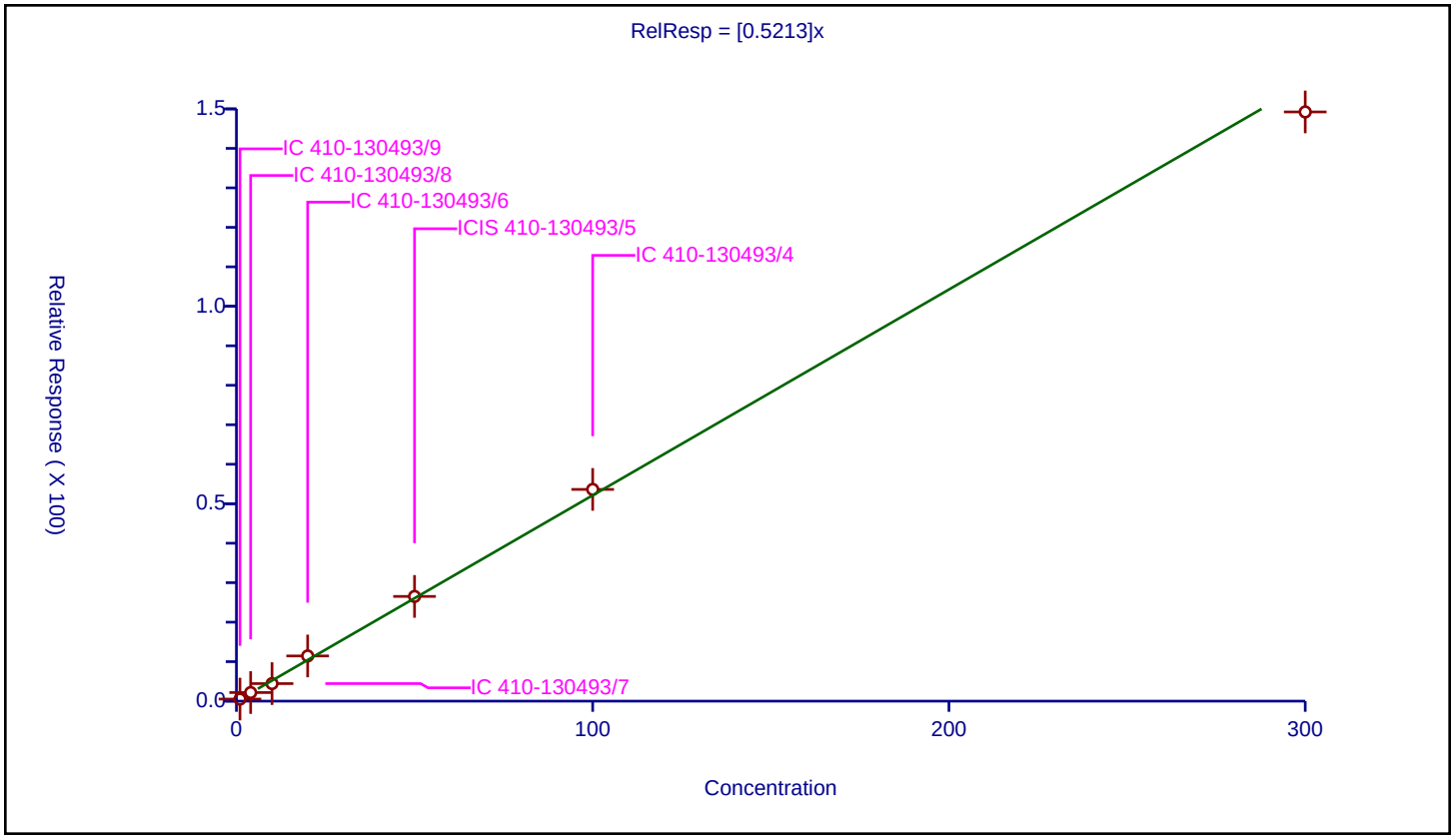
Curve Coefficients

Intercept:	0
Slope:	0.5213

Error Coefficients

Standard Error:	702000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.524129	50.0	492245.0	0.524129	Y
2	IC 410-130493/8	4.0	2.176653	50.0	486297.0	0.544163	Y
3	IC 410-130493/7	10.0	4.443709	50.0	491155.0	0.444371	Y
4	IC 410-130493/6	20.0	11.444057	50.0	502868.0	0.572203	Y
5	ICIS 410-130493/5	50.0	26.519693	50.0	519957.0	0.530394	Y
6	IC 410-130493/4	100.0	53.623869	50.0	517803.0	0.536239	Y
7	IC 410-130493/3	300.0	149.230463	50.0	535712.0	0.497435	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

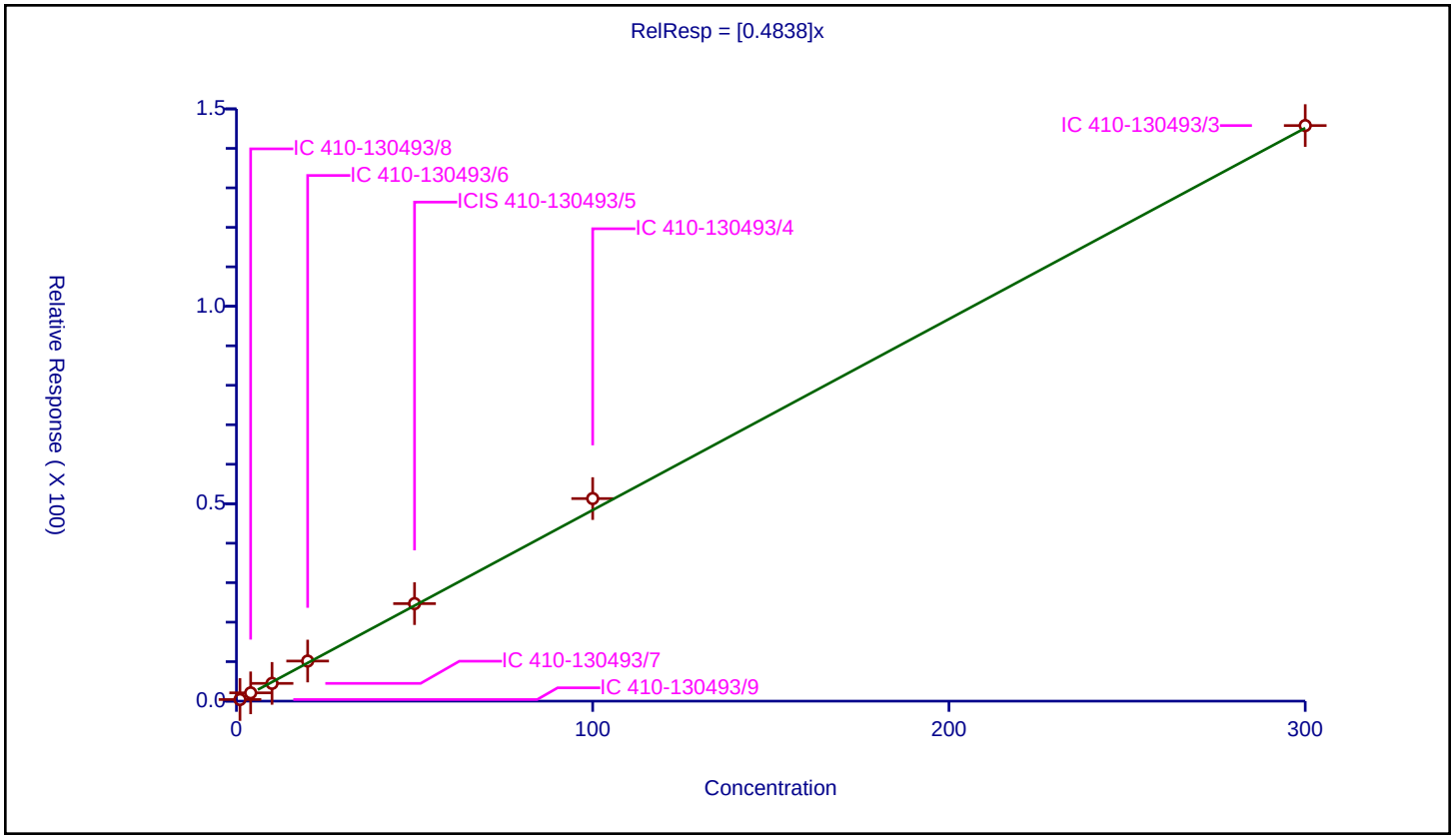
Curve Coefficients

Intercept:	0
Slope:	0.4838

Error Coefficients

Standard Error:	683000
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 410-130493/9	1.0	0.41006	50.0	492245.0	0.41006	Y
2	IC 410-130493/8	4.0	2.10427	50.0	486297.0	0.526067	Y
3	IC 410-130493/7	10.0	4.498071	50.0	491155.0	0.449807	Y
4	IC 410-130493/6	20.0	10.158332	50.0	502868.0	0.507917	Y
5	ICIS 410-130493/5	50.0	24.702427	50.0	519957.0	0.494049	Y
6	IC 410-130493/4	100.0	51.305709	50.0	517803.0	0.513057	Y
7	IC 410-130493/3	300.0	145.776555	50.0	535712.0	0.485922	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

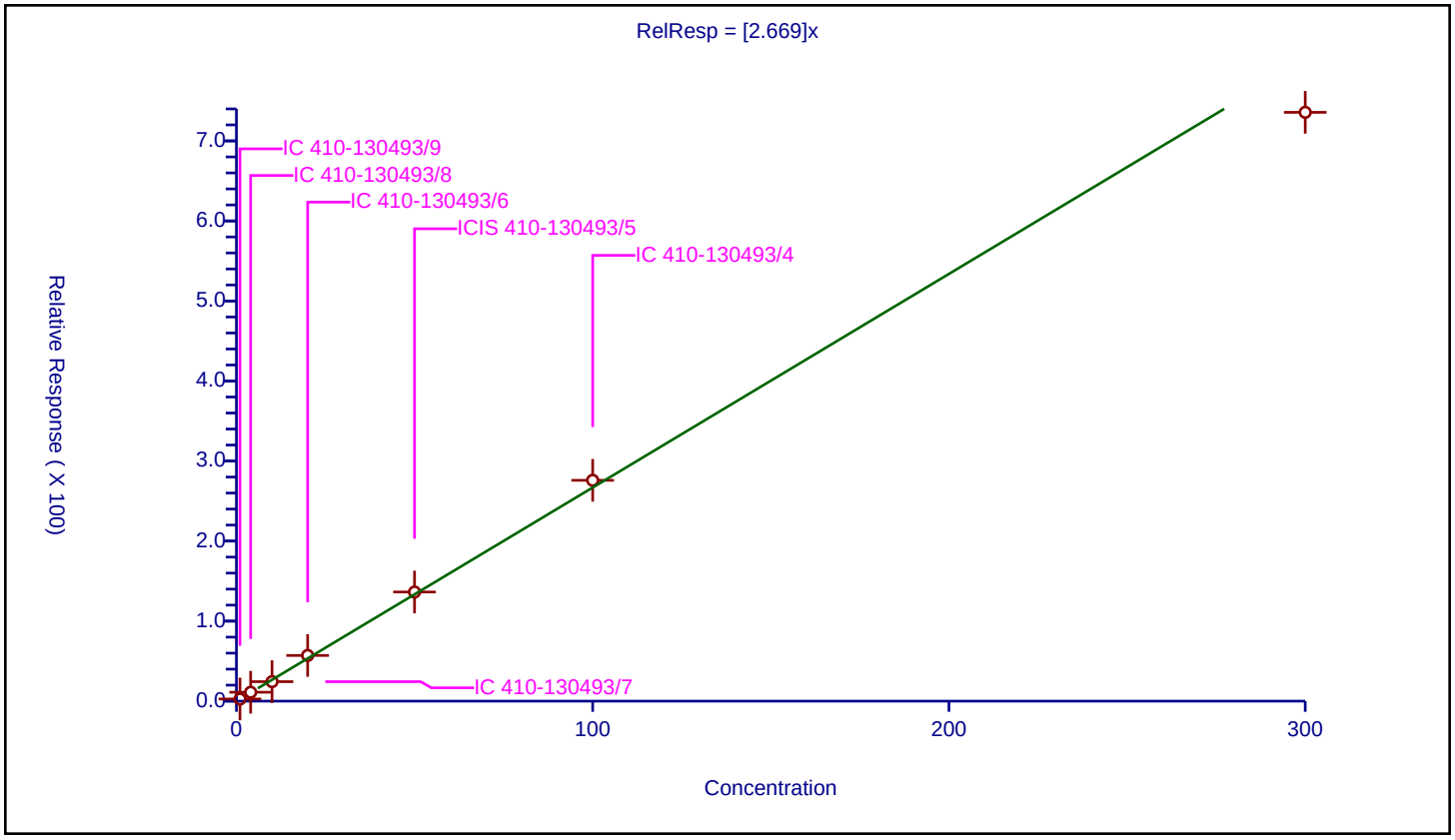
Curve Coefficients

Intercept:	0
Slope:	2.669

Error Coefficients

Standard Error:	3480000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	2.672043	50.0	492245.0	2.672043	Y
2	IC 410-130493/8	4.0	11.133217	50.0	486297.0	2.783304	Y
3	IC 410-130493/7	10.0	24.342417	50.0	491155.0	2.434242	Y
4	IC 410-130493/6	20.0	57.09202	50.0	502868.0	2.854601	Y
5	ICIS 410-130493/5	50.0	136.364738	50.0	519957.0	2.727295	Y
6	IC 410-130493/4	100.0	275.929842	50.0	517803.0	2.759298	Y
7	IC 410-130493/3	300.0	735.709486	50.0	535712.0	2.452365	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

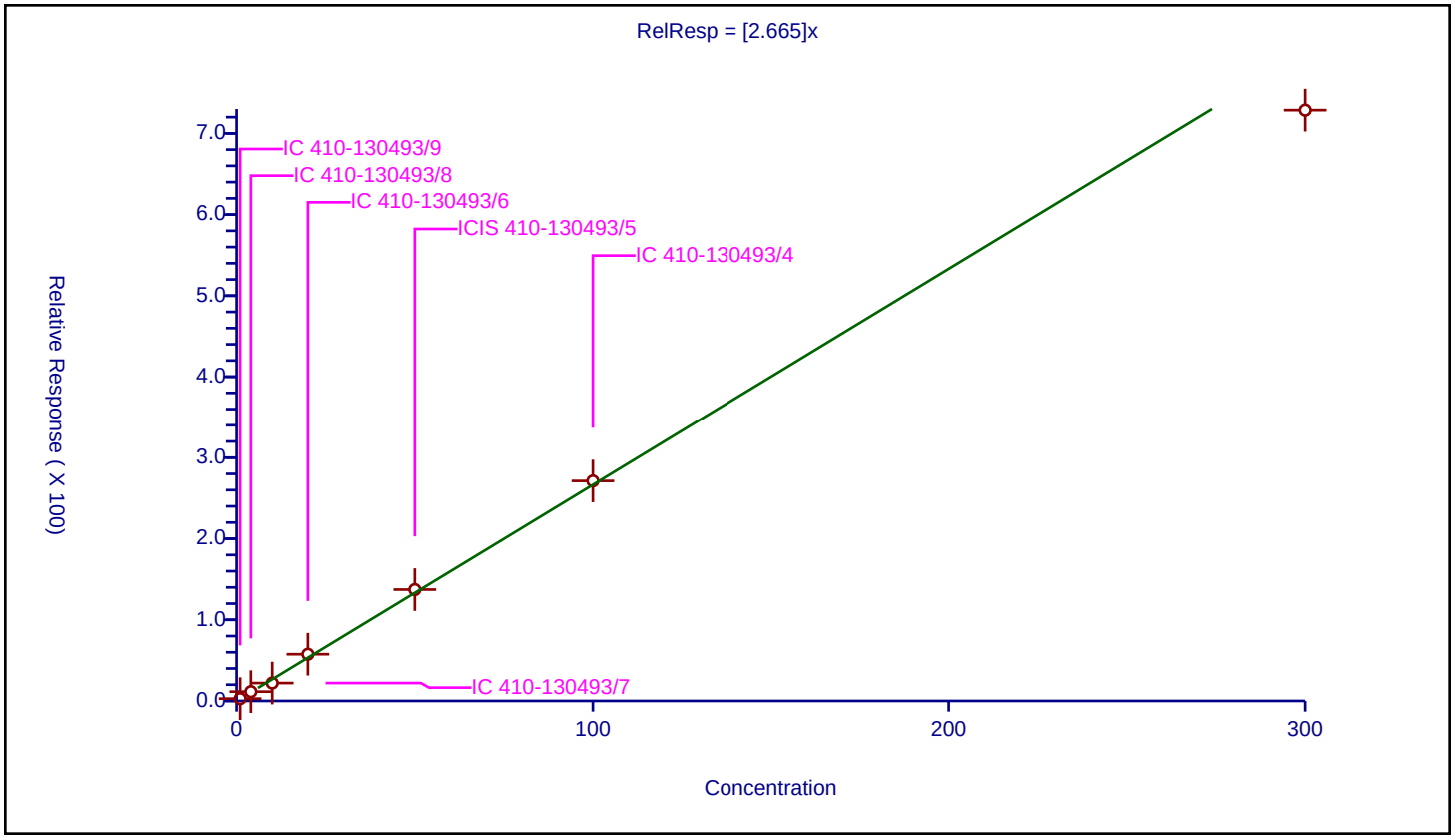
Curve Coefficients

Intercept:	0
Slope:	2.665

Error Coefficients

Standard Error:	3450000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	2.827352	50.0	492245.0	2.827352	Y
2	IC 410-130493/8	4.0	11.440642	50.0	486297.0	2.860161	Y
3	IC 410-130493/7	10.0	22.031538	50.0	491155.0	2.203154	Y
4	IC 410-130493/6	20.0	57.595731	50.0	502868.0	2.879787	Y
5	ICIS 410-130493/5	50.0	137.318951	50.0	519957.0	2.746379	Y
6	IC 410-130493/4	100.0	271.269769	50.0	517803.0	2.712698	Y
7	IC 410-130493/3	300.0	728.578135	50.0	535712.0	2.428594	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

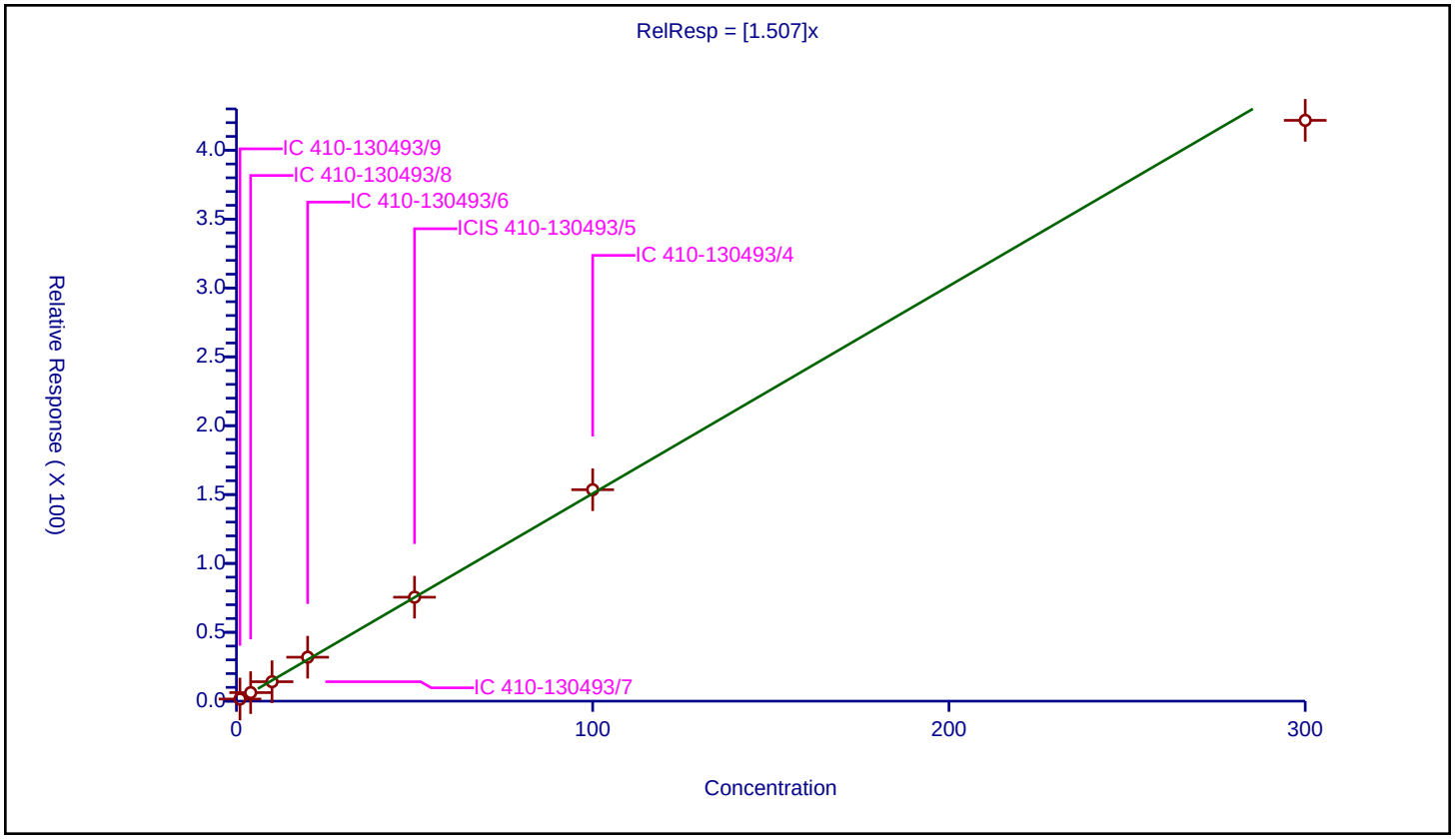
Curve Coefficients

Intercept:	0
Slope:	1.507

Error Coefficients

Standard Error:	1990000
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 410-130493/9	1.0	1.546791	50.0	492245.0	1.546791	Y
2	IC 410-130493/8	4.0	6.190353	50.0	486297.0	1.547588	Y
3	IC 410-130493/7	10.0	14.112347	50.0	491155.0	1.411235	Y
4	IC 410-130493/6	20.0	31.88988	50.0	502868.0	1.594494	Y
5	ICIS 410-130493/5	50.0	75.46374	50.0	519957.0	1.509275	Y
6	IC 410-130493/4	100.0	153.502587	50.0	517803.0	1.535026	Y
7	IC 410-130493/3	300.0	421.688239	50.0	535712.0	1.405627	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

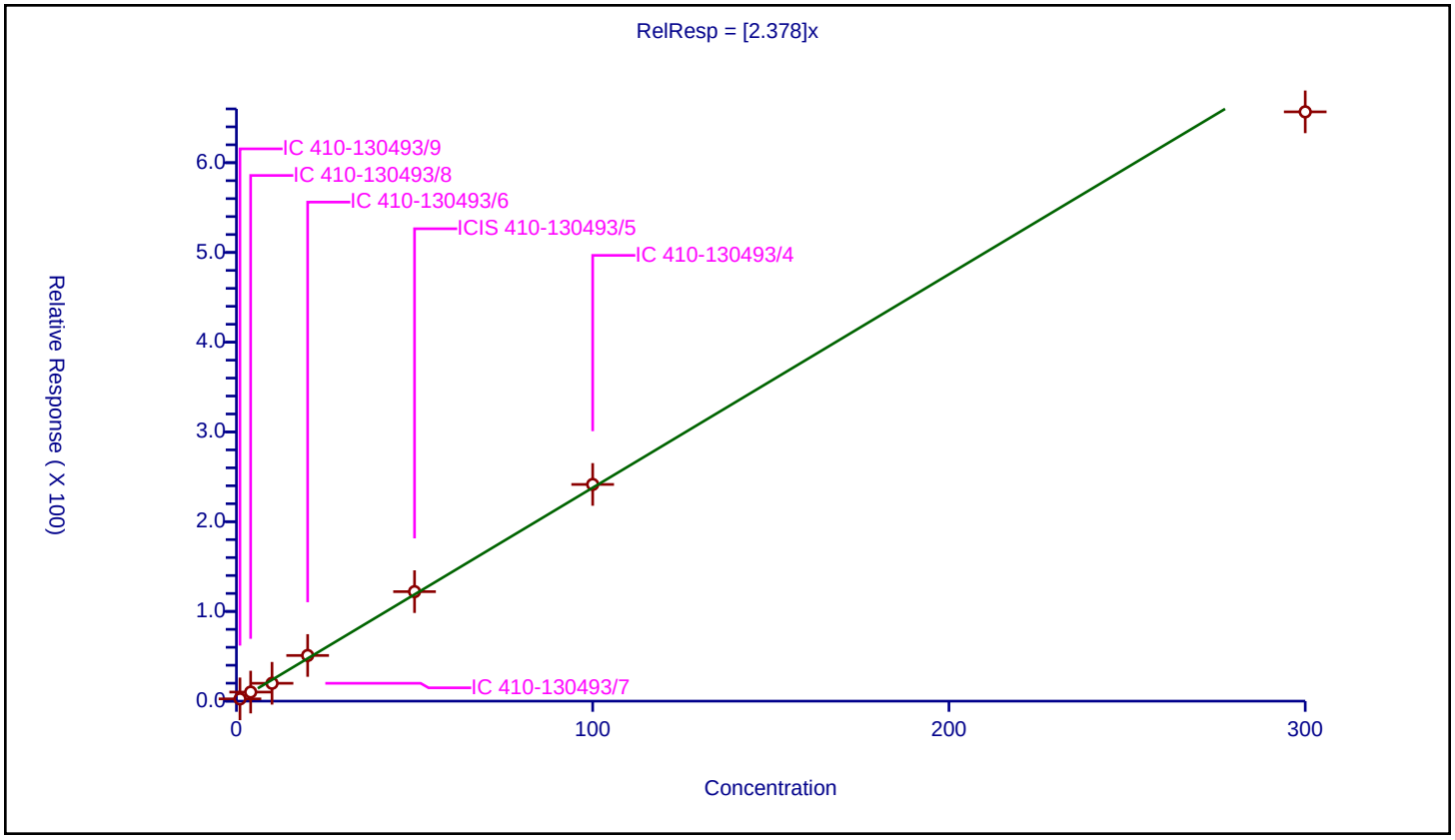
Curve Coefficients

Intercept:	0
Slope:	2.378

Error Coefficients

Standard Error:	3100000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	2.540402	50.0	492245.0	2.540402	Y
2	IC 410-130493/8	4.0	10.118508	50.0	486297.0	2.529627	Y
3	IC 410-130493/7	10.0	19.895654	50.0	491155.0	1.989565	Y
4	IC 410-130493/6	20.0	50.877367	50.0	502868.0	2.543868	Y
5	ICIS 410-130493/5	50.0	122.041053	50.0	519957.0	2.440821	Y
6	IC 410-130493/4	100.0	241.486144	50.0	517803.0	2.414861	Y
7	IC 410-130493/3	300.0	656.692775	50.0	535712.0	2.188976	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

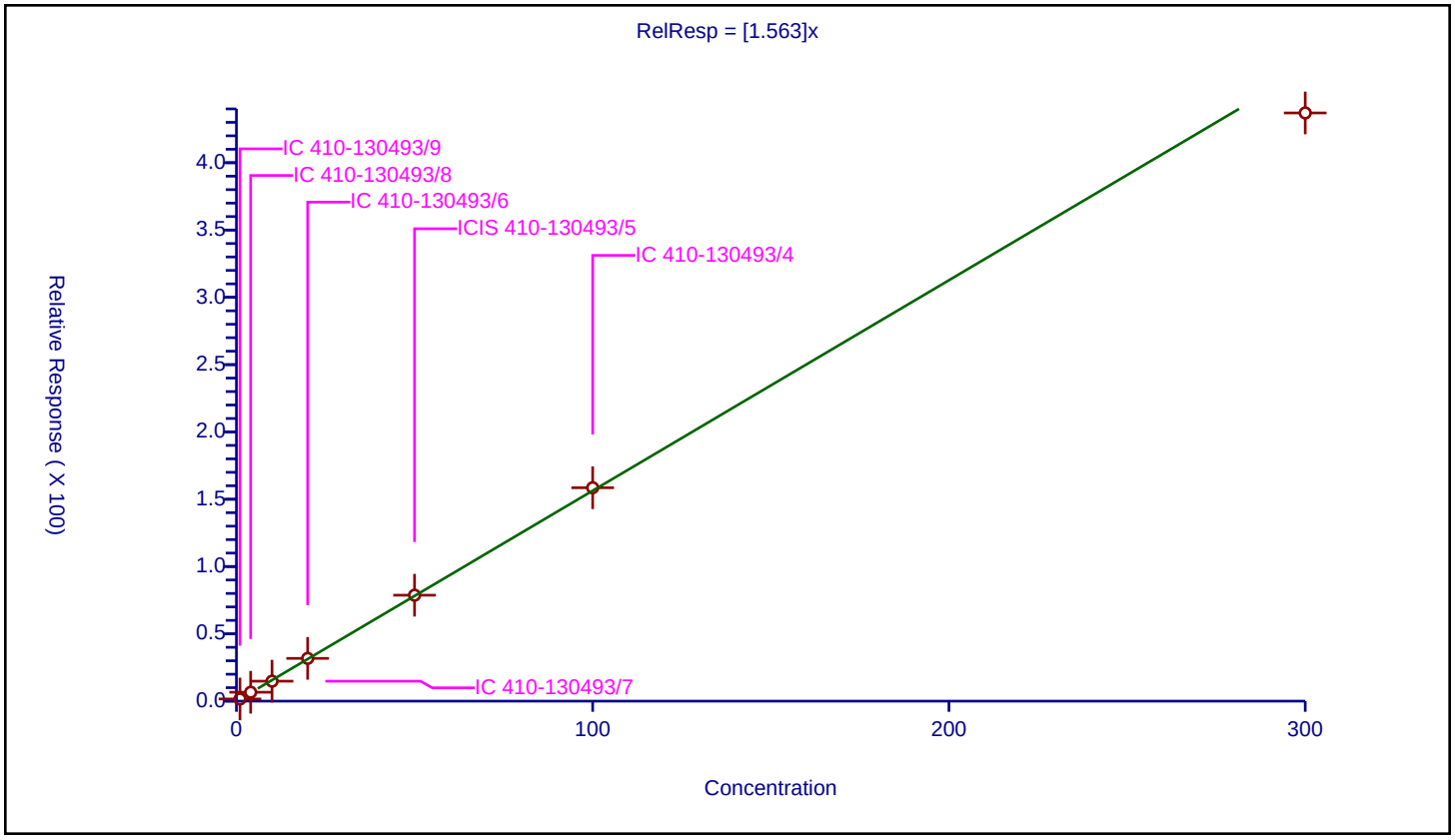
Curve Coefficients

Intercept:	0
Slope:	1.563

Error Coefficients

Standard Error:	2060000
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 410-130493/9	1.0	1.603775	50.0	492245.0	1.603775	Y
2	IC 410-130493/8	4.0	6.617355	50.0	486297.0	1.654339	Y
3	IC 410-130493/7	10.0	14.823019	50.0	491155.0	1.482302	Y
4	IC 410-130493/6	20.0	31.759527	50.0	502868.0	1.587976	Y
5	ICIS 410-130493/5	50.0	78.695642	50.0	519957.0	1.573913	Y
6	IC 410-130493/4	100.0	158.546783	50.0	517803.0	1.585468	Y
7	IC 410-130493/3	300.0	436.990398	50.0	535712.0	1.456635	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

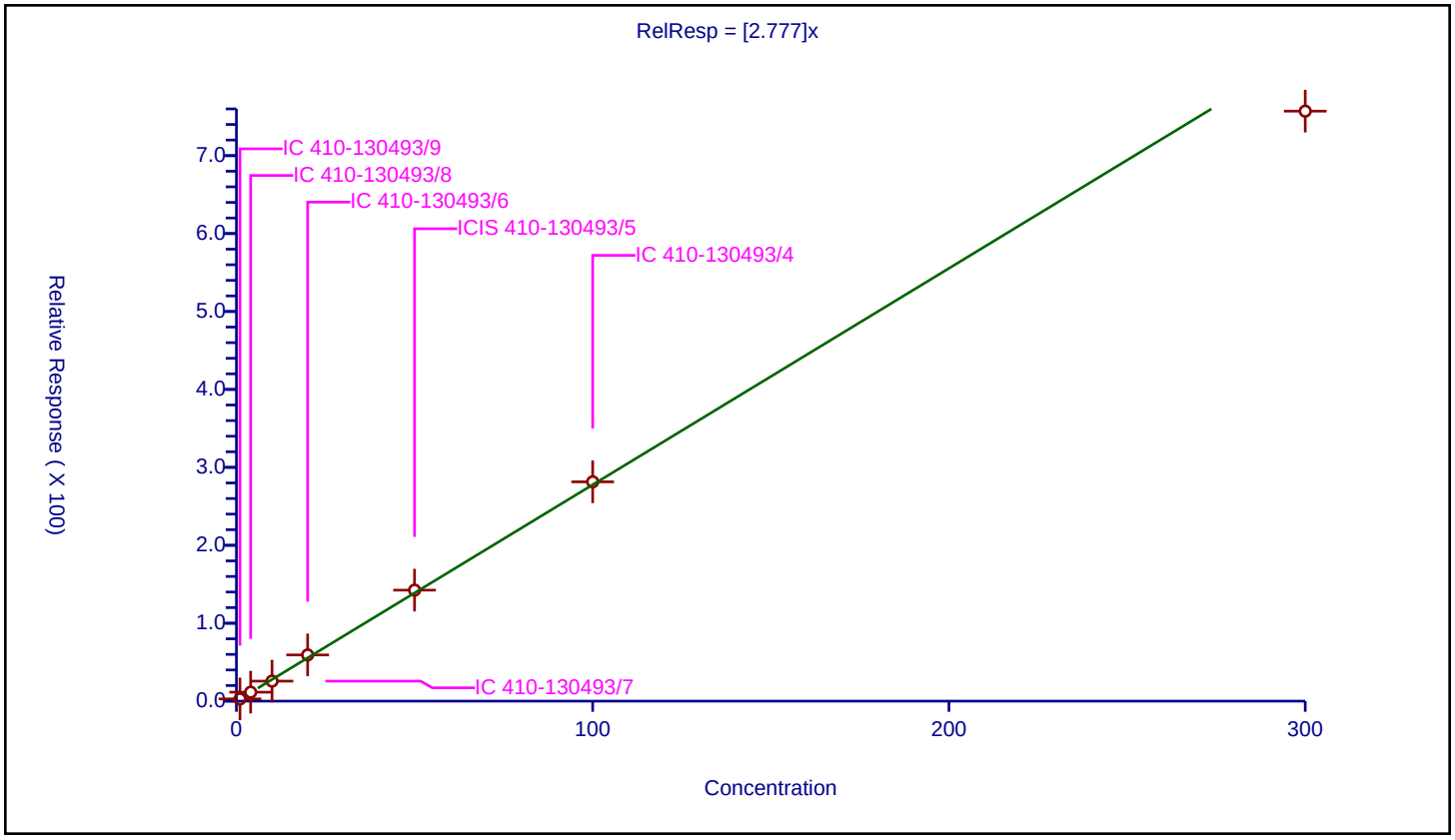
Curve Coefficients

Intercept:	0
Slope:	2.777

Error Coefficients

Standard Error:	3580000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	2.84076	50.0	492245.0	2.84076	Y
2	IC 410-130493/8	4.0	11.515391	50.0	486297.0	2.878848	Y
3	IC 410-130493/7	10.0	25.684662	50.0	491155.0	2.568466	Y
4	IC 410-130493/6	20.0	59.279075	50.0	502868.0	2.963954	Y
5	ICIS 410-130493/5	50.0	142.423123	50.0	519957.0	2.848462	Y
6	IC 410-130493/4	100.0	281.432031	50.0	517803.0	2.81432	Y
7	IC 410-130493/3	300.0	757.117817	50.0	535712.0	2.523726	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

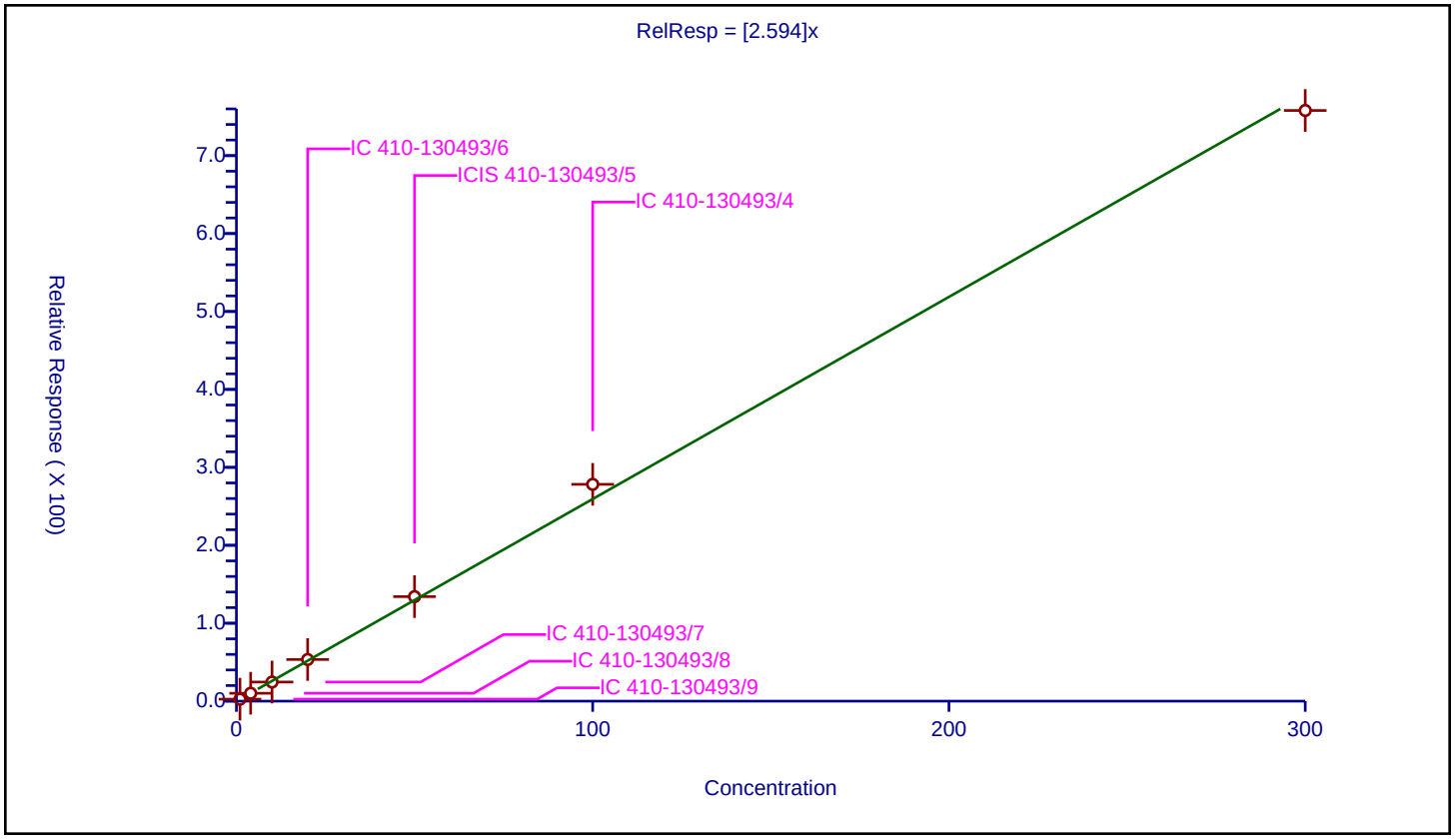
Curve Coefficients

Intercept:	0
Slope:	2.594

Error Coefficients

Standard Error:	3570000
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 410-130493/9	1.0	2.511148	50.0	492245.0	2.511148	Y
2	IC 410-130493/8	4.0	10.113367	50.0	486297.0	2.528342	Y
3	IC 410-130493/7	10.0	24.530444	50.0	491155.0	2.453044	Y
4	IC 410-130493/6	20.0	53.430423	50.0	502868.0	2.671521	Y
5	ICIS 410-130493/5	50.0	134.116764	50.0	519957.0	2.682335	Y
6	IC 410-130493/4	100.0	278.219516	50.0	517803.0	2.782195	Y
7	IC 410-130493/3	300.0	757.950914	50.0	535712.0	2.526503	Y



Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

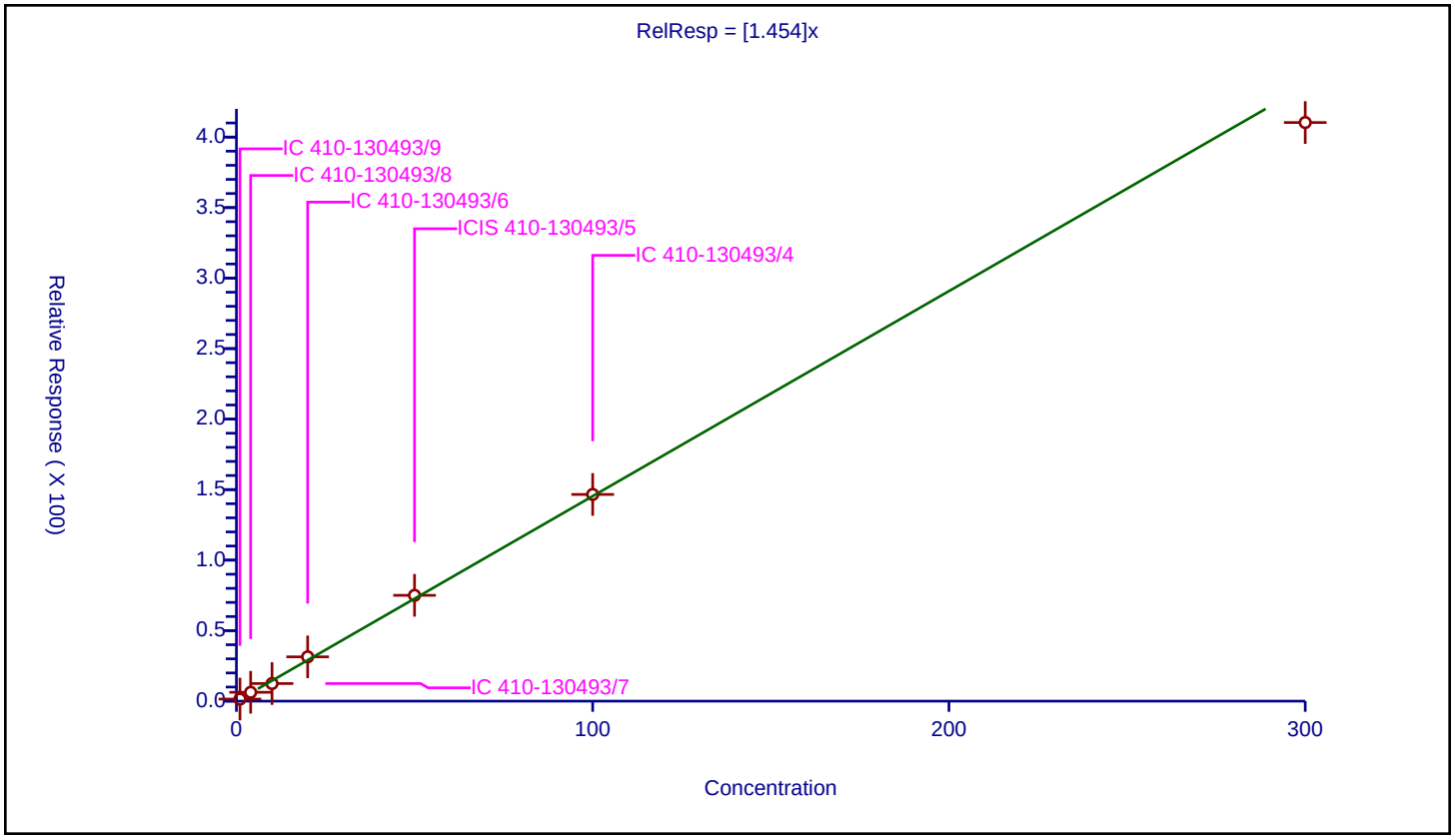
Curve Coefficients

Intercept:	0
Slope:	1.454

Error Coefficients

Standard Error:	1930000
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 410-130493/9	1.0	1.458115	50.0	492245.0	1.458115	Y
2	IC 410-130493/8	4.0	6.271785	50.0	486297.0	1.567946	Y
3	IC 410-130493/7	10.0	12.467042	50.0	491155.0	1.246704	Y
4	IC 410-130493/6	20.0	31.401978	50.0	502868.0	1.570099	Y
5	ICIS 410-130493/5	50.0	75.036397	50.0	519957.0	1.500728	Y
6	IC 410-130493/4	100.0	146.585188	50.0	517803.0	1.465852	Y
7	IC 410-130493/3	300.0	410.331111	50.0	535712.0	1.36777	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

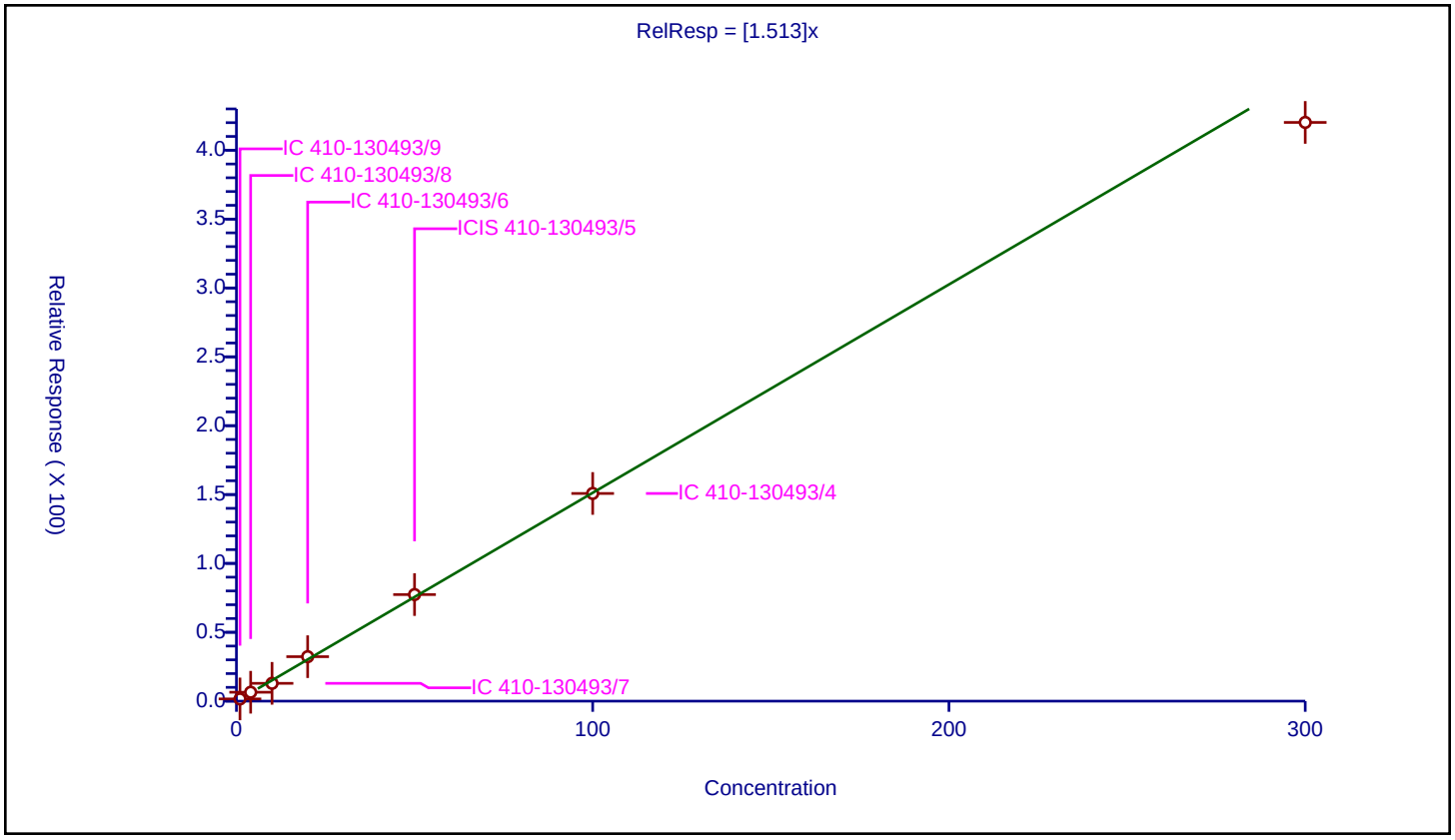
Curve Coefficients

Intercept:	0
Slope:	1.513

Error Coefficients

Standard Error:	1980000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	1.60865	50.0	492245.0	1.60865	Y
2	IC 410-130493/8	4.0	6.468167	50.0	486297.0	1.617042	Y
3	IC 410-130493/7	10.0	12.920972	50.0	491155.0	1.292097	Y
4	IC 410-130493/6	20.0	32.282527	50.0	502868.0	1.614126	Y
5	ICIS 410-130493/5	50.0	77.380533	50.0	519957.0	1.547611	Y
6	IC 410-130493/4	100.0	150.786399	50.0	517803.0	1.507864	Y
7	IC 410-130493/3	300.0	420.179593	50.0	535712.0	1.400599	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

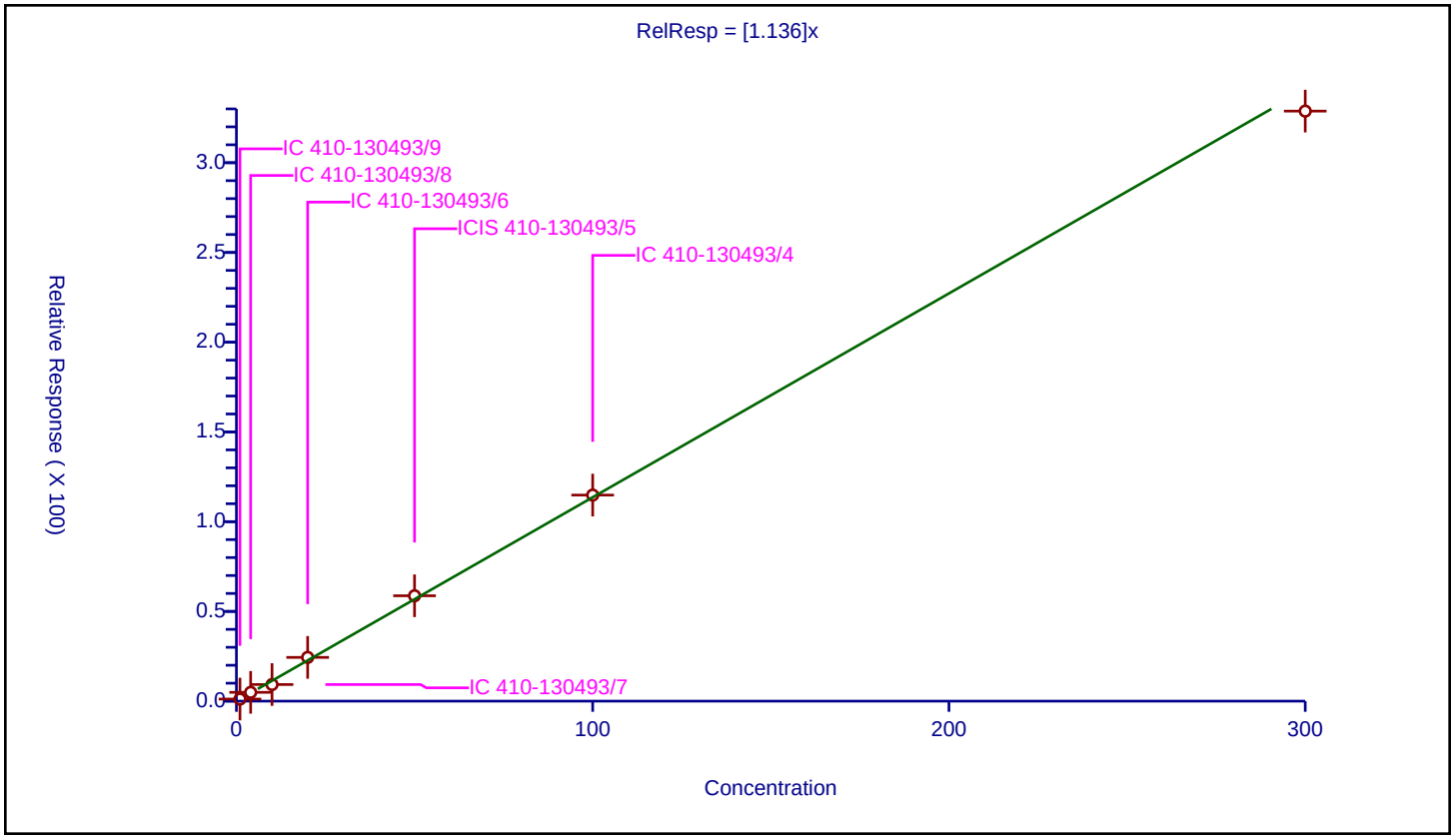
Curve Coefficients

Intercept:	0
Slope:	1.136

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	1.163547	50.0	492245.0	1.163547	Y
2	IC 410-130493/8	4.0	4.900092	50.0	486297.0	1.225023	Y
3	IC 410-130493/7	10.0	9.255632	50.0	491155.0	0.925563	Y
4	IC 410-130493/6	20.0	24.376775	50.0	502868.0	1.218839	Y
5	ICIS 410-130493/5	50.0	58.712355	50.0	519957.0	1.174247	Y
6	IC 410-130493/4	100.0	114.808624	50.0	517803.0	1.148086	Y
7	IC 410-130493/3	300.0	328.765363	50.0	535712.0	1.095885	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

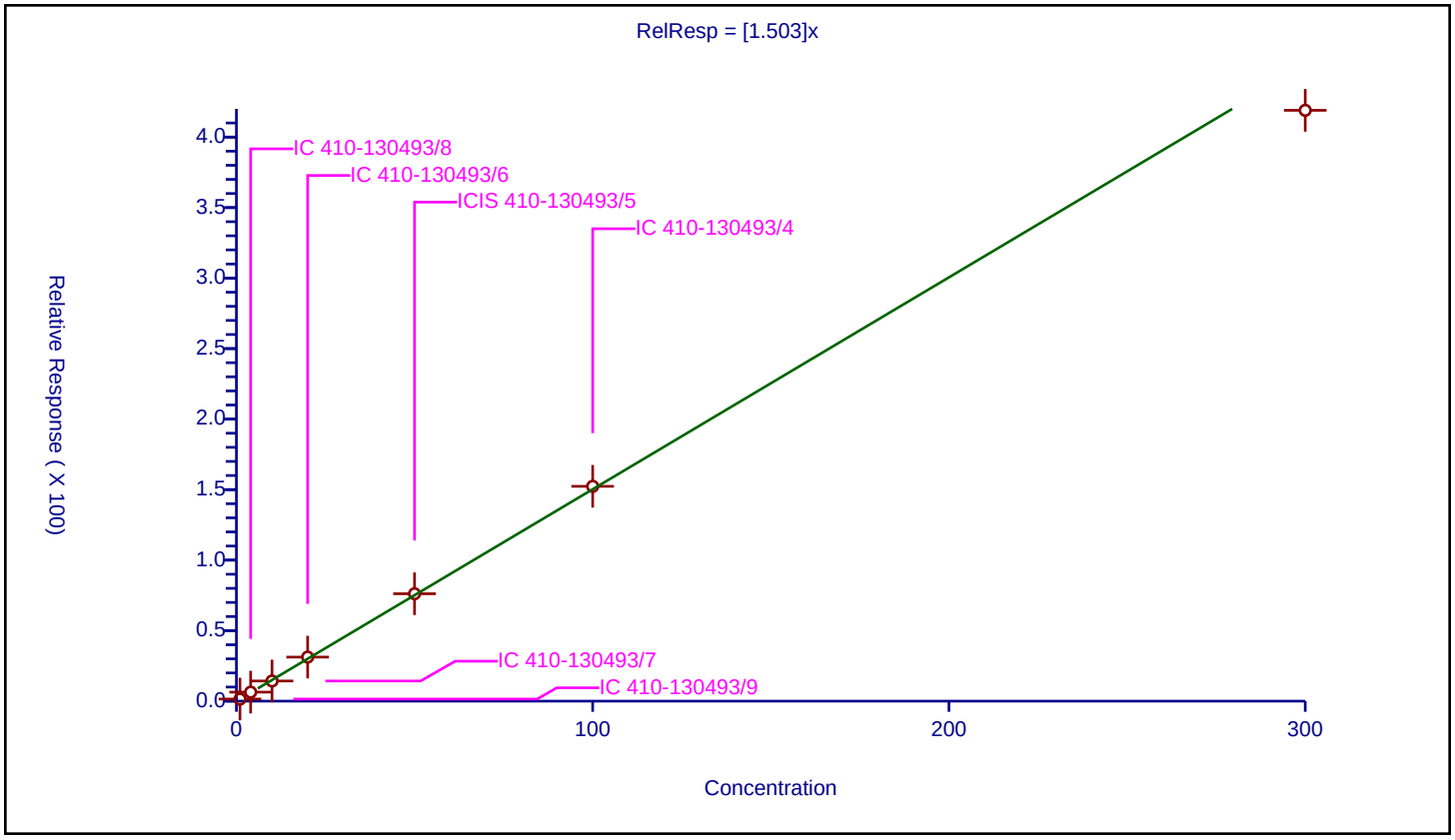
Curve Coefficients

Intercept:	0
Slope:	1.503

Error Coefficients

Standard Error:	1970000
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 410-130493/9	1.0	1.483814	50.0	492245.0	1.483814	Y
2	IC 410-130493/8	4.0	6.401438	50.0	486297.0	1.600359	Y
3	IC 410-130493/7	10.0	14.290499	50.0	491155.0	1.42905	Y
4	IC 410-130493/6	20.0	31.235831	50.0	502868.0	1.561792	Y
5	ICIS 410-130493/5	50.0	76.164279	50.0	519957.0	1.523286	Y
6	IC 410-130493/4	100.0	152.344038	50.0	517803.0	1.52344	Y
7	IC 410-130493/3	300.0	418.979788	50.0	535712.0	1.396599	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

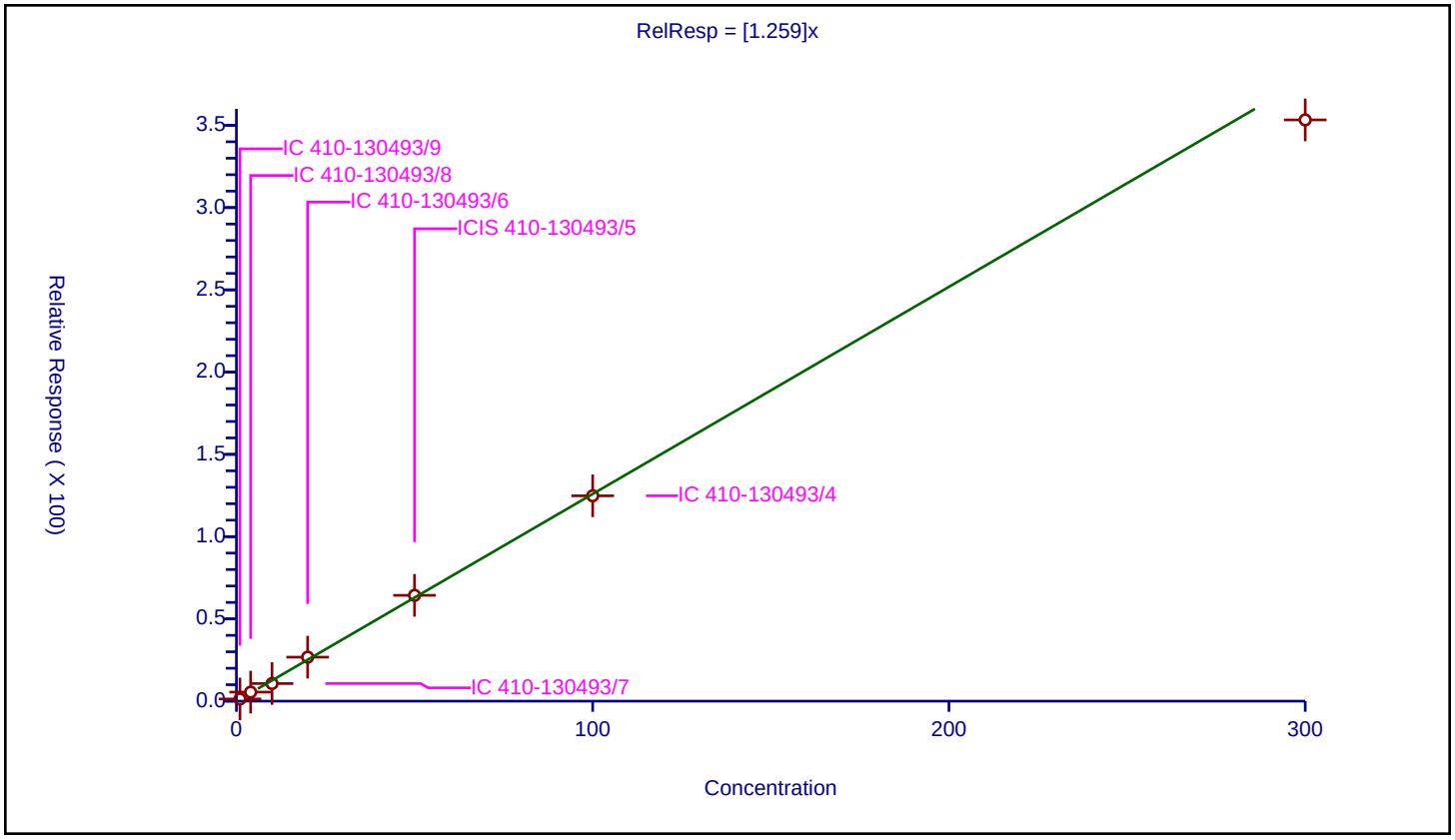
Curve Coefficients

Intercept:	0
Slope:	1.259

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	1.322004	50.0	492245.0	1.322004	Y
2	IC 410-130493/8	4.0	5.497978	50.0	486297.0	1.374494	Y
3	IC 410-130493/7	10.0	10.688072	50.0	491155.0	1.068807	Y
4	IC 410-130493/6	20.0	26.738428	50.0	502868.0	1.336921	Y
5	ICIS 410-130493/5	50.0	64.30926	50.0	519957.0	1.286185	Y
6	IC 410-130493/4	100.0	124.813587	50.0	517803.0	1.248136	Y
7	IC 410-130493/3	300.0	353.296547	50.0	535712.0	1.177655	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

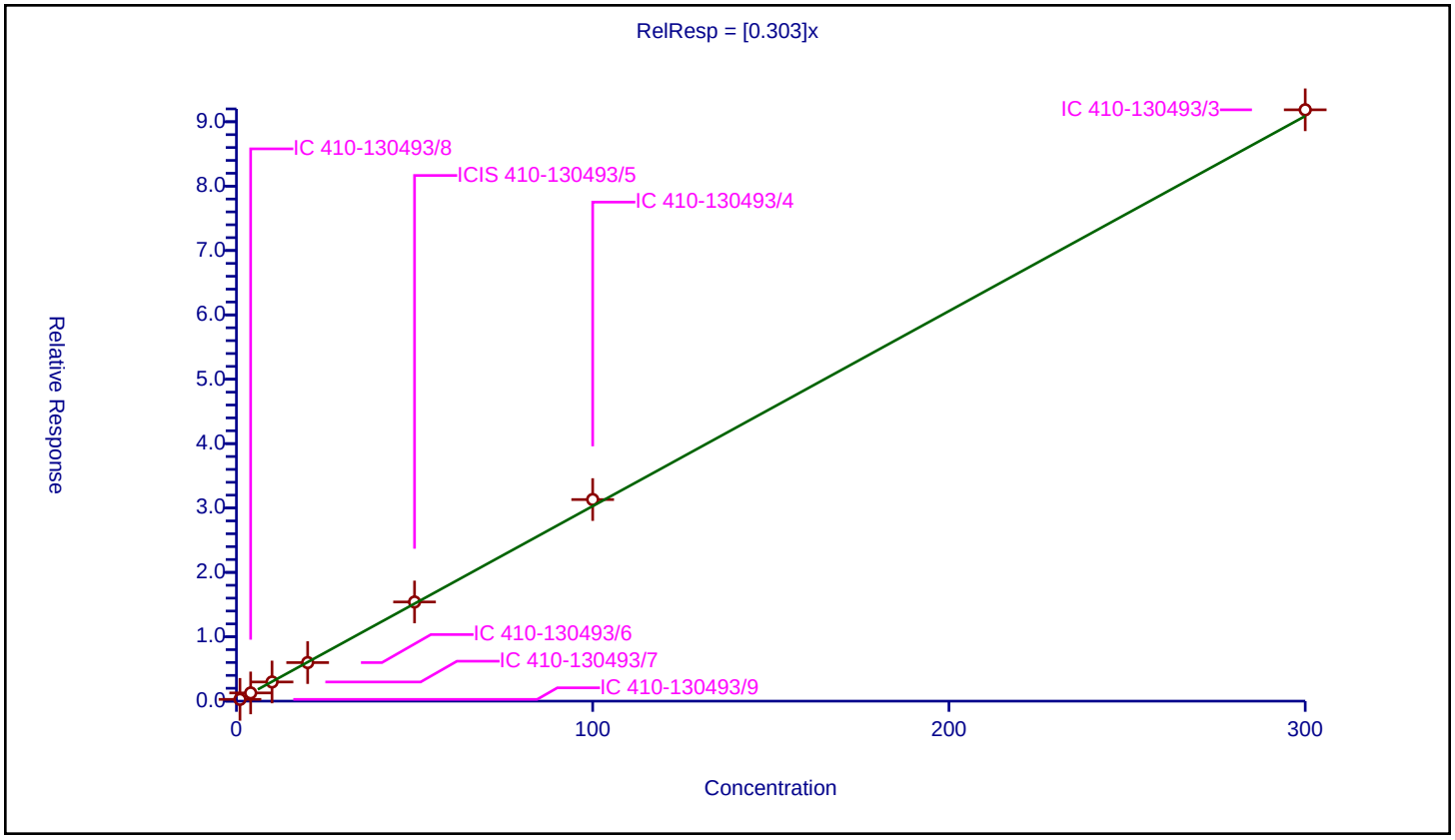
Curve Coefficients

Intercept:	0
Slope:	0.303

Error Coefficients

Standard Error:	429000
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 410-130493/9	1.0	0.277199	50.0	492245.0	0.277199	Y
2	IC 410-130493/8	4.0	1.276483	50.0	486297.0	0.319121	Y
3	IC 410-130493/7	10.0	2.975944	50.0	491155.0	0.297594	Y
4	IC 410-130493/6	20.0	5.98676	50.0	502868.0	0.299338	Y
5	ICIS 410-130493/5	50.0	15.404351	50.0	519957.0	0.308087	Y
6	IC 410-130493/4	100.0	31.313743	50.0	517803.0	0.313137	Y
7	IC 410-130493/3	300.0	91.857285	50.0	535712.0	0.306191	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

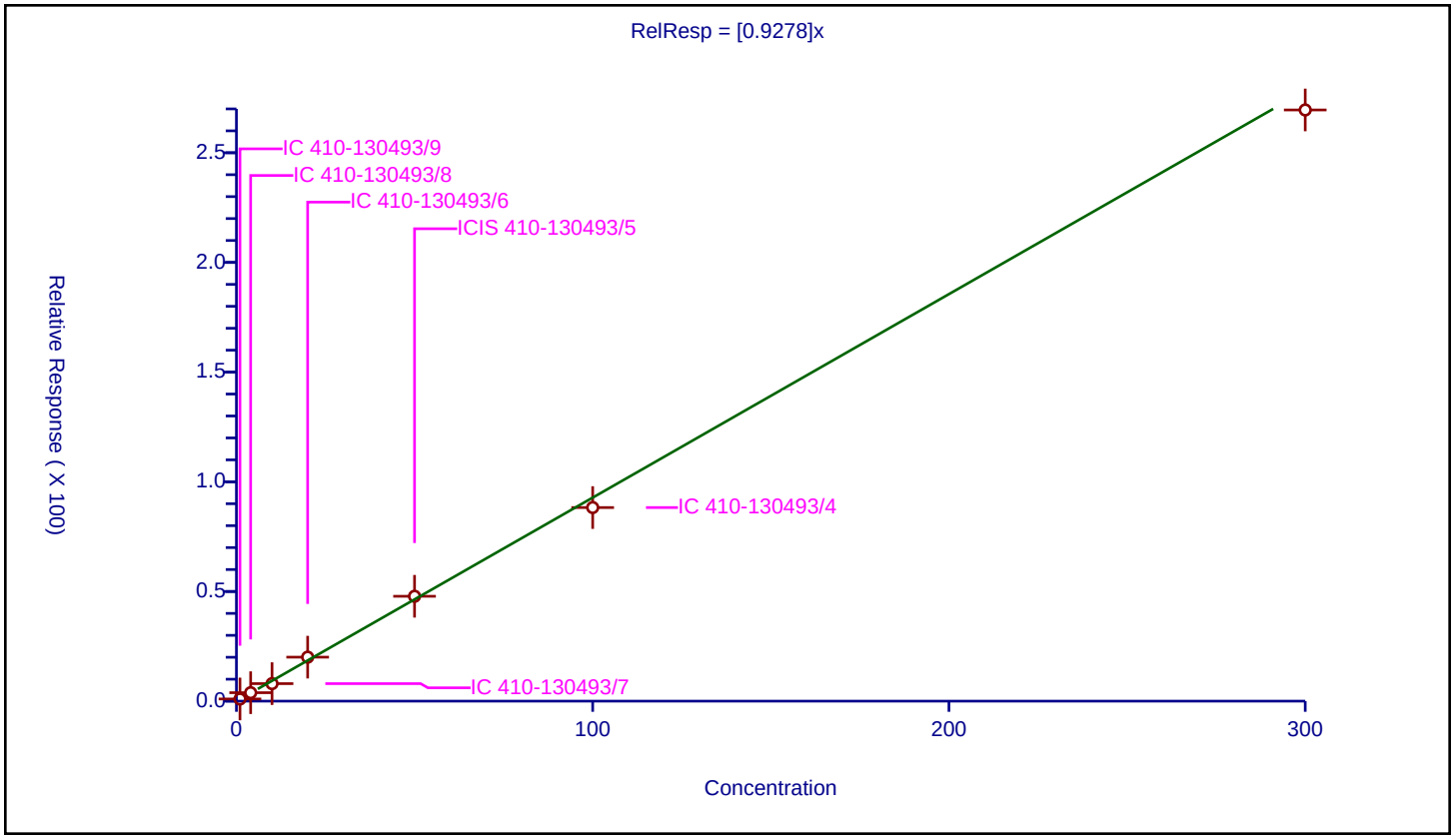
Curve Coefficients

Intercept:	0
Slope:	0.9278

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.993306	50.0	492245.0	0.993306	Y
2	IC 410-130493/8	4.0	3.853406	50.0	486297.0	0.963352	Y
3	IC 410-130493/7	10.0	7.978948	50.0	491155.0	0.797895	Y
4	IC 410-130493/6	20.0	20.056357	50.0	502868.0	1.002818	Y
5	ICIS 410-130493/5	50.0	47.810492	50.0	519957.0	0.95621	Y
6	IC 410-130493/4	100.0	88.259241	50.0	517803.0	0.882592	Y
7	IC 410-130493/3	300.0	269.512257	50.0	535712.0	0.898374	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

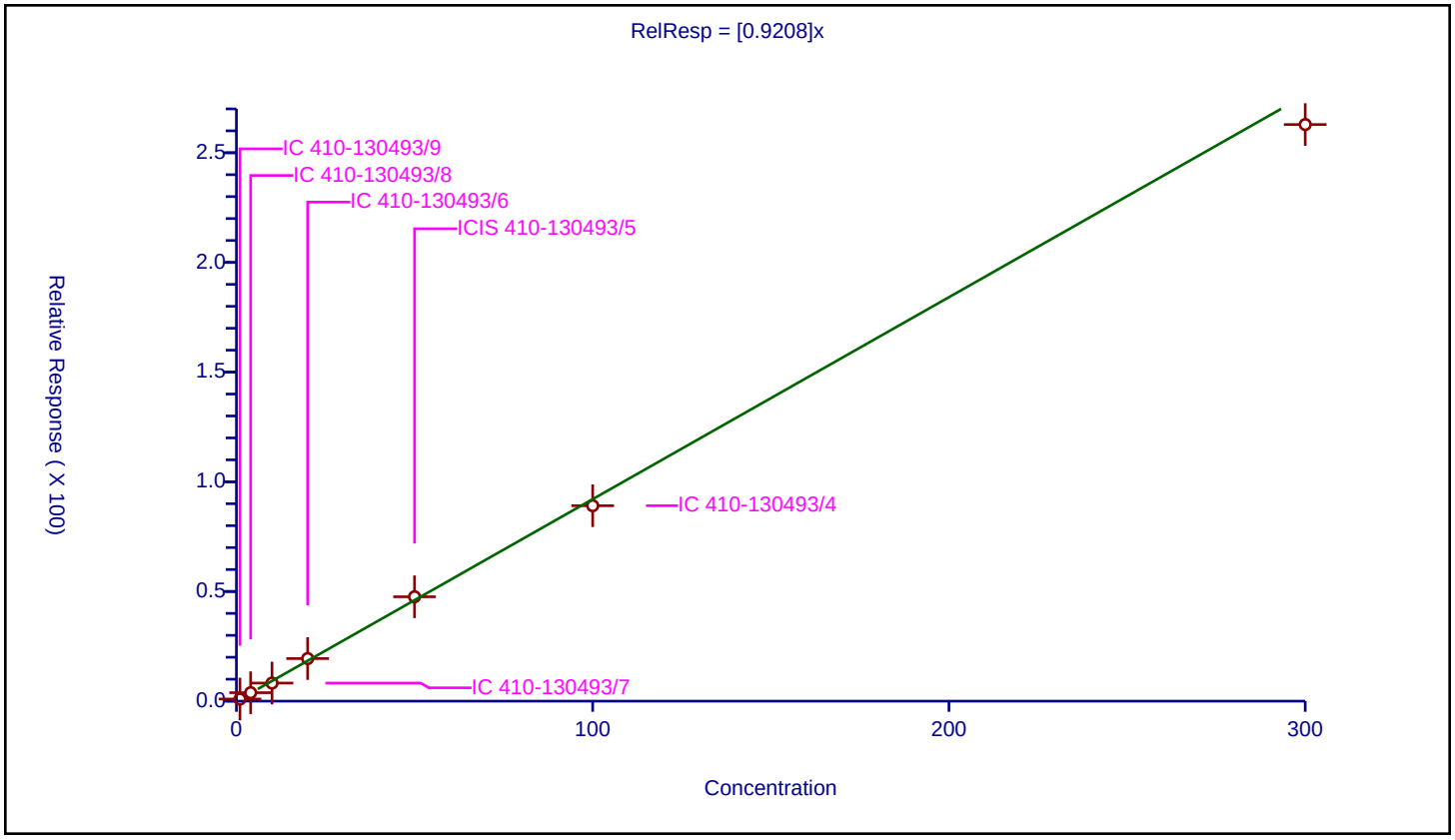
Curve Coefficients

Intercept:	0
Slope:	0.9208

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.969944	50.0	492245.0	0.969944	Y
2	IC 410-130493/8	4.0	3.85063	50.0	486297.0	0.962658	Y
3	IC 410-130493/7	10.0	8.232432	50.0	491155.0	0.823243	Y
4	IC 410-130493/6	20.0	19.414936	50.0	502868.0	0.970747	Y
5	ICIS 410-130493/5	50.0	47.581435	50.0	519957.0	0.951629	Y
6	IC 410-130493/4	100.0	89.091411	50.0	517803.0	0.890914	Y
7	IC 410-130493/3	300.0	262.855135	50.0	535712.0	0.876184	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

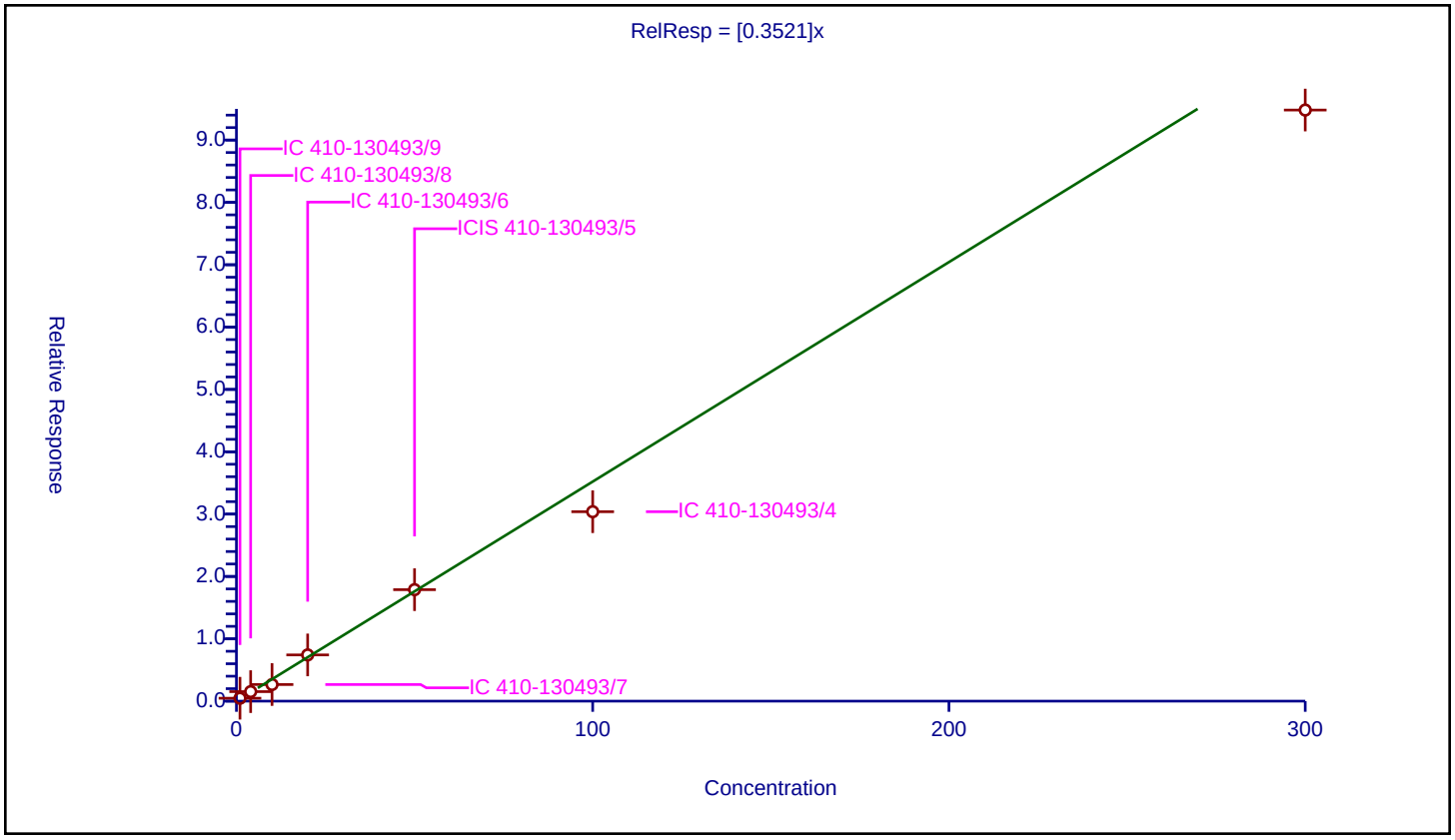
Curve Coefficients

Intercept:	0
Slope:	0.3521

Error Coefficients

Standard Error:	442000
Relative Standard Error:	18.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.952

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.46806	50.0	492245.0	0.46806	Y
2	IC 410-130493/8	4.0	1.528901	50.0	486297.0	0.382225	Y
3	IC 410-130493/7	10.0	2.662601	50.0	491155.0	0.26626	Y
4	IC 410-130493/6	20.0	7.413079	50.0	502868.0	0.370654	Y
5	ICIS 410-130493/5	50.0	17.883498	50.0	519957.0	0.35767	Y
6	IC 410-130493/4	100.0	30.386073	50.0	517803.0	0.303861	Y
7	IC 410-130493/3	300.0	94.815405	50.0	535712.0	0.316051	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

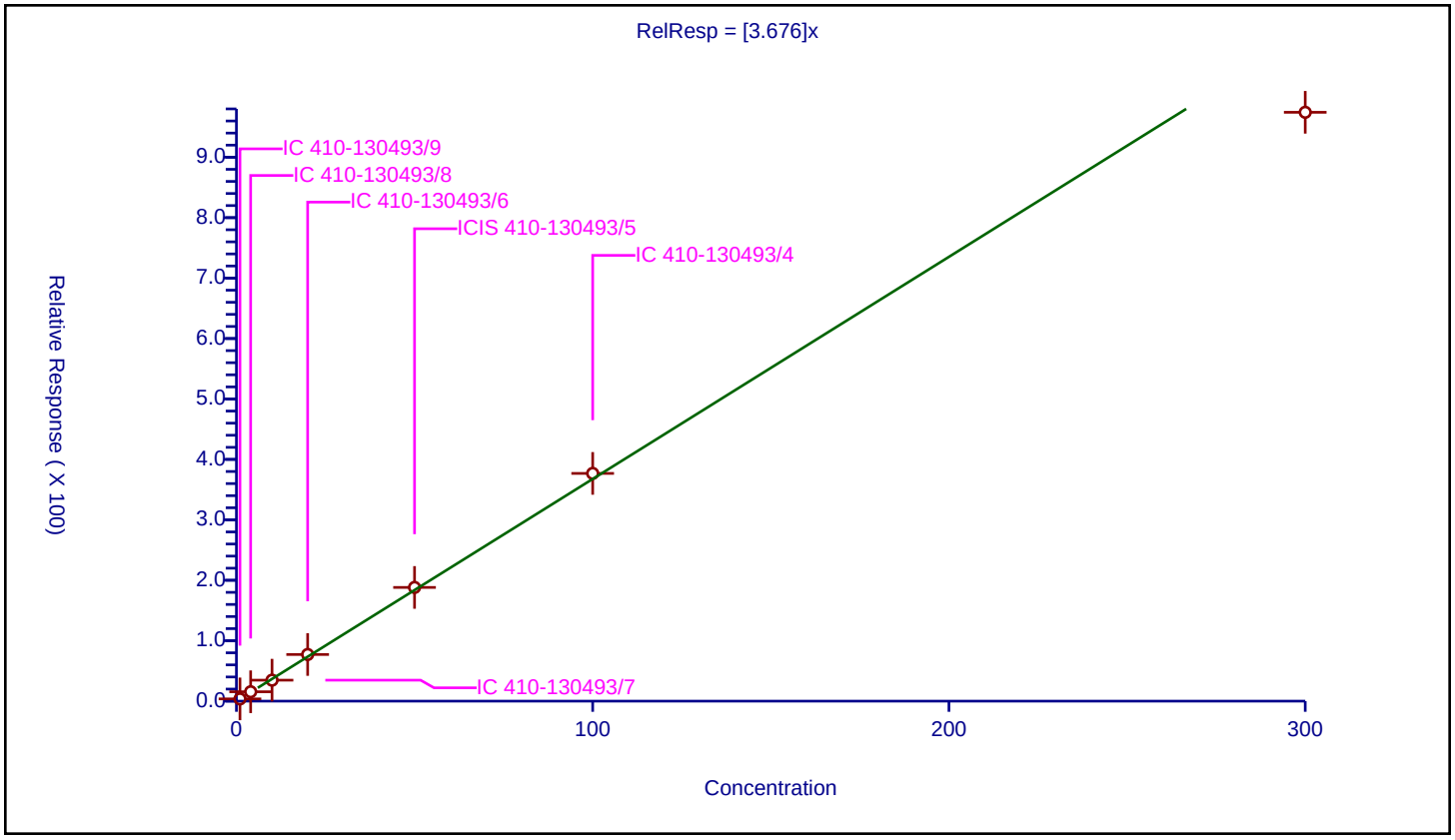
Curve Coefficients

Intercept:	0
Slope:	3.676

Error Coefficients

Standard Error:	4630000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	3.733507	50.0	492245.0	3.733507	Y
2	IC 410-130493/8	4.0	15.548214	50.0	486297.0	3.887054	Y
3	IC 410-130493/7	10.0	34.716332	50.0	491155.0	3.471633	Y
4	IC 410-130493/6	20.0	77.204555	50.0	502868.0	3.860228	Y
5	ICIS 410-130493/5	50.0	188.151713	50.0	519957.0	3.763034	Y
6	IC 410-130493/4	100.0	376.8129	50.0	517803.0	3.768129	Y
7	IC 410-130493/3	300.0	974.366824	50.0	535712.0	3.247889	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

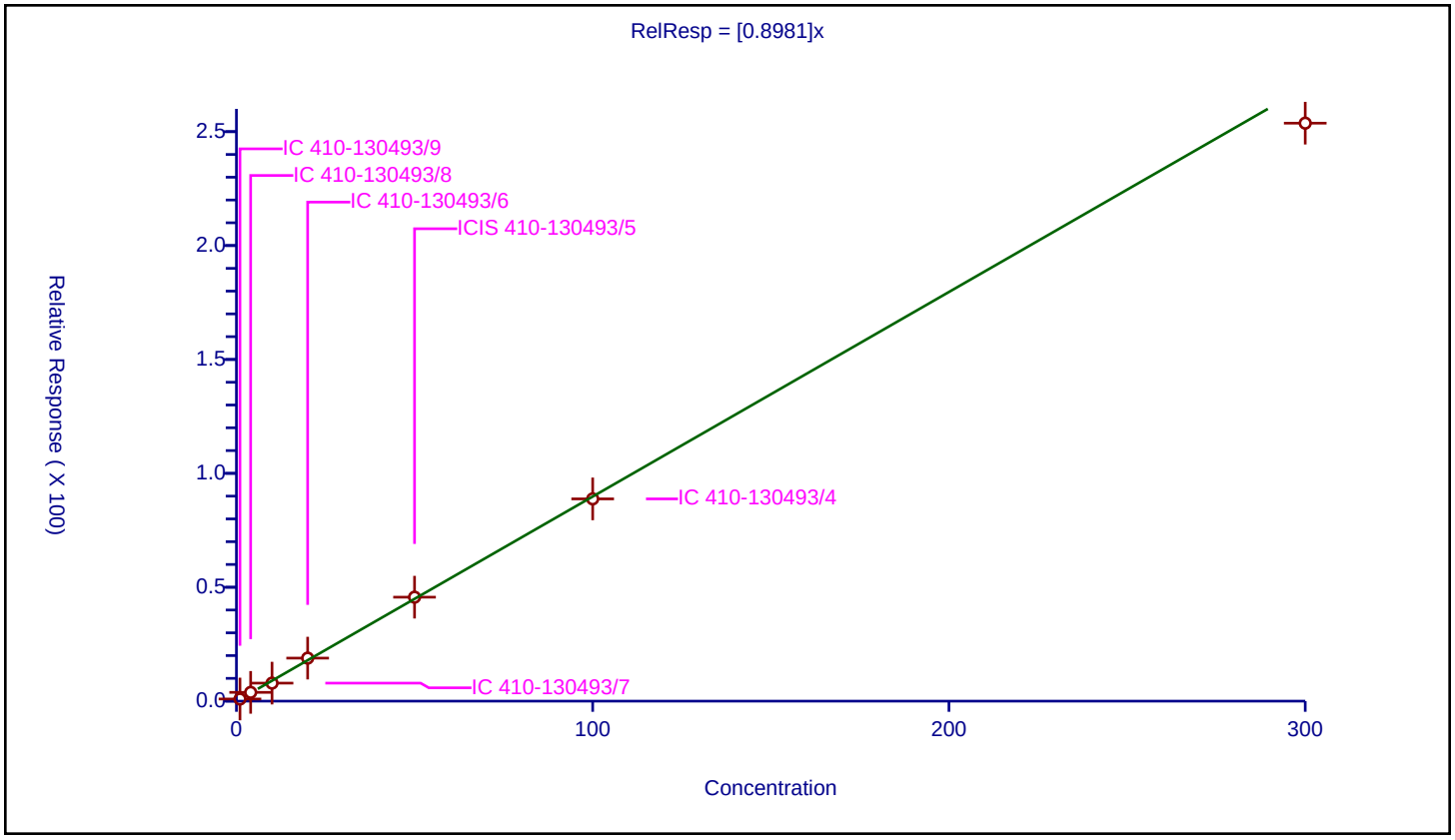
Curve Coefficients

Intercept:	0
Slope:	0.8981

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	0.943128	50.0	492245.0	0.943128	Y
2	IC 410-130493/8	4.0	3.849499	50.0	486297.0	0.962375	Y
3	IC 410-130493/7	10.0	7.904633	50.0	491155.0	0.790463	Y
4	IC 410-130493/6	20.0	18.885373	50.0	502868.0	0.944269	Y
5	ICIS 410-130493/5	50.0	45.64089	50.0	519957.0	0.912818	Y
6	IC 410-130493/4	100.0	88.7856	50.0	517803.0	0.887856	Y
7	IC 410-130493/3	300.0	253.735589	50.0	535712.0	0.845785	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

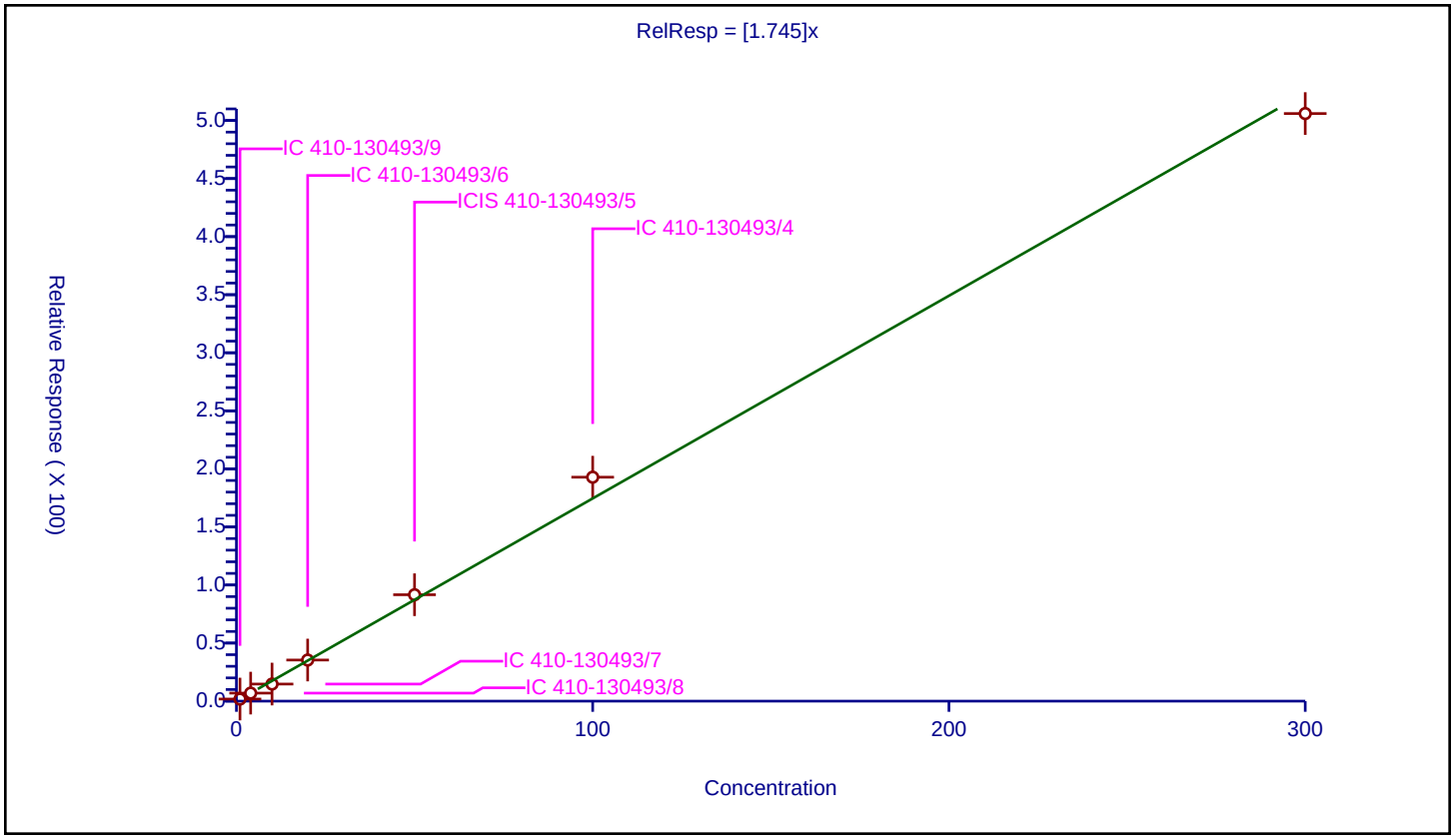
Curve Coefficients

Intercept:	0
Slope:	1.745

Error Coefficients

Standard Error:	2400000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-130493/9	1.0	1.796463	50.0	492245.0	1.796463	Y
2	IC 410-130493/8	4.0	6.924986	50.0	486297.0	1.731247	Y
3	IC 410-130493/7	10.0	14.72132	50.0	491155.0	1.472132	Y
4	IC 410-130493/6	20.0	35.40094	50.0	502868.0	1.770047	Y
5	ICIS 410-130493/5	50.0	91.632481	50.0	519957.0	1.83265	Y
6	IC 410-130493/4	100.0	192.846121	50.0	517803.0	1.928461	Y
7	IC 410-130493/3	300.0	505.991932	50.0	535712.0	1.68664	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-130493/11 Calibration Date: 05/25/2021 18:46

Instrument ID: 9137 Calib Start Date: 05/25/2021 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/25/2021 18:01

Lab File ID: WY25V01.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	0.2262	0.2354	0.1000	20.8	20.0	4.0	30.0
Chloromethane	Ave	0.3421	0.3061	0.1000	17.9	20.0	-10.5	30.0
Vinyl chloride	Ave	0.3354	0.3130	0.1000	18.7	20.0	-6.7	30.0
1,3-Butadiene	Ave	0.3167	0.2874		18.1	20.0	-9.3	30.0
Bromomethane	Ave	0.2238	0.2076	0.1000	18.6	20.0	-7.2	30.0
Chloroethane	Ave	0.2080	0.1949	0.1000	18.7	20.0	-6.3	30.0
Dichlorofluoromethane	Ave	0.4493	0.4622		20.6	20.0	2.9	30.0
Trichlorofluoromethane	Ave	0.3363	0.3514	0.1000	20.9	20.0	4.5	30.0
n-Pentane	Ave	0.4323	0.4492		20.8	20.0	3.9	30.0
Ethanol	Lin		0.0715		804	1000	-19.6	30.0
Freon 123a	Ave	0.2980	0.3169		21.3	20.0	6.3	30.0
Acrolein	Ave	1.858	1.523		123	150	-18.1	30.0
1,1-Dichloroethene	Ave	0.2546	0.2594	0.1000	20.4	20.0	1.9	30.0
Freon 113	Ave	0.2202	0.2251	0.1000	20.4	20.0	2.2	30.0
Acetone	Lin		0.7158	0.1000	236	250	-5.5	30.0
2-Propanol	Lin1		0.4188		128	150	-14.8	30.0
Methyl iodide	Ave	0.4671	0.4449		19.0	20.0	-4.8	30.0
Carbon disulfide	Ave	0.9026	0.8618	0.1000	19.1	20.0	-4.5	30.0
Allyl chloride	Ave	0.4398	0.4280		19.5	20.0	-2.7	30.0
Methyl acetate	Ave	0.3151	0.2976	0.1000	18.9	20.0	-5.6	30.0
Methylene Chloride	Ave	0.3127	0.3041	0.1000	19.4	20.0	-2.8	30.0
t-Butyl alcohol	Ave	1.121	1.094		195	200	-2.4	30.0
Acrylonitrile	Ave	0.1514	0.1392		91.9	100	-8.1	30.0
trans-1,2-Dichloroethene	Ave	0.2768	0.2618	0.1000	18.9	20.0	-5.4	30.0
Methyl tertiary butyl ether	Ave	0.9640	0.8863	0.1000	18.4	20.0	-8.1	30.0
n-Hexane	Ave	0.3119	0.2961		19.0	20.0	-5.1	30.0
1,1-Dichloroethane	Ave	0.4955	0.4813	0.2000	19.4	20.0	-2.9	30.0
di-Isopropyl ether	Ave	0.9614	0.9249		19.2	20.0	-3.8	30.0
2-Chloro-1,3-butadiene	Ave	0.4540	0.4322		19.0	20.0	-4.8	30.0
Ethyl t-butyl ether	Ave	0.9450	0.9252		19.6	20.0	-2.1	30.0
2,2-Dichloropropane	Ave	0.2094	0.2230		21.3	20.0	6.5	30.0
cis-1,2-Dichloroethene	Ave	0.3005	0.2962	0.1000	19.7	20.0	-1.4	30.0
2-Butanone	Ave	0.2245	0.2110	0.1000	235	250	-6.0	30.0
Propionitrile	Ave	1.284	1.191		139	150	-7.2	30.0
Methacrylonitrile	Ave	0.1849	0.1712		139	150	-7.4	30.0
Bromochloromethane	Ave	0.1432	0.1455		20.3	20.0	1.6	30.0
Tetrahydrofuran	Ave	1.350	1.306		96.8	100	-3.2	30.0
Chloroform	Ave	0.4825	0.4584	0.2000	19.0	20.0	-5.0	30.0
1,1,1-Trichloroethane	Ave	0.3993	0.3915	0.1000	19.6	20.0	-2.0	30.0
Cyclohexane	Ave	0.4583	0.4427	0.1000	19.3	20.0	-3.4	30.0
Carbon tetrachloride	Ave	0.3245	0.3234	0.1000	19.9	20.0	-0.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-130493/11 Calibration Date: 05/25/2021 18:46

Instrument ID: 9137 Calib Start Date: 05/25/2021 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/25/2021 18:01

Lab File ID: WY25V01.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
1,1-Dichloropropene	Ave	0.3709	0.3729		20.1	20.0	0.5	30.0
Isobutyl alcohol	Ave	0.3729	0.3223		432	500	-13.6	30.0
Benzene	Ave	1.164	1.166	0.5000	20.0	20.0	0.2	30.0
1,2-Dichloroethane	Ave	0.4027	0.3786	0.1000	18.8	20.0	-6.0	30.0
t-Amyl methyl ether	Ave	0.9287	0.9159		19.7	20.0	-1.4	30.0
n-Heptane	Ave	0.2843	0.2896		20.4	20.0	1.9	30.0
n-Butanol	Ave	0.3198	0.2568		803	1000	-19.7	30.0
Trichloroethene	Ave	0.2934	0.2843	0.2000	19.4	20.0	-3.1	30.0
Methylcyclohexane	Ave	0.3717	0.3747	0.1000	20.2	20.0	0.8	30.0
1,2-Dichloropropane	Ave	0.3179	0.3132	0.1000	19.7	20.0	-1.5	30.0
t-Amyl ethyl ether	Ave	0.4604	0.4504		19.6	20.0	-2.2	30.0
Dibromomethane	Ave	0.1926	0.1872		19.4	20.0	-2.8	30.0
Methyl methacrylate	Ave	0.3256	0.3082		18.9	20.0	-5.4	30.0
1,4-Dioxane	Ave	0.0945	0.0845	0.0050	447	500	-10.6	30.0
Bromodichloromethane	Ave	0.3807	0.3651	0.2000	19.2	20.0	-4.1	30.0
2-Nitropropane	Ave	2.766	2.729		19.7	20.0	-1.3	30.0
2-Chloroethyl vinyl ether	Ave	0.2422	0.2356		19.5	20.0	-2.7	30.0
cis-1,3-Dichloropropene	Ave	0.5083	0.4882	0.2000	19.2	20.0	-4.0	30.0
4-Methyl-2-pentanone	Ave	0.5015	0.4643	0.1000	231	250	-7.4	30.0
Toluene	Ave	0.9817	0.9490	0.4000	19.3	20.0	-3.3	30.0
trans-1,3-Dichloropropene	Ave	0.6383	0.6415	0.1000	20.1	20.0	0.5	30.0
Ethyl methacrylate	Ave	0.7381	0.6767		18.3	20.0	-8.3	30.0
1,1,2-Trichloroethane	Ave	0.3828	0.3733	0.1000	19.5	20.0	-2.5	30.0
Tetrachloroethene	Ave	0.3779	0.3815	0.2000	20.2	20.0	1.0	30.0
1,3-Dichloropropane	Ave	0.6590	0.6357		19.3	20.0	-3.5	30.0
2-Hexanone	Ave	0.4942	0.5020	0.1000	254	250	1.6	30.0
Dibromochloromethane	Ave	0.4086	0.3896		19.1	20.0	-4.6	30.0
1,2-Dibromoethane	Ave	0.4138	0.4023	0.1000	19.4	20.0	-2.8	30.0
1-Chlorohexane	Ave	0.4813	0.4557		18.9	20.0	-5.3	30.0
Chlorobenzene	Ave	1.047	1.027	0.5000	19.6	20.0	-1.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3578	0.3499		19.6	20.0	-2.2	30.0
Ethylbenzene	Ave	1.787	1.793	0.1000	20.1	20.0	0.3	30.0
m&p-Xylene	Ave	0.6902	0.6869	0.1000	39.8	40.0	-0.5	30.0
o-Xylene	Ave	0.6962	0.6712	0.3000	19.3	20.0	-3.6	30.0
Styrene	Ave	1.215	1.221	0.3000	20.1	20.0	0.5	30.0
Bromoform	Ave	0.3228	0.3159	0.1000	19.6	20.0	-2.1	30.0
Isopropylbenzene	Ave	1.617	1.658	0.1000	20.5	20.0	2.5	30.0
Cyclohexanone	Ave	0.5152	0.3873		376	500	-24.8	30.0
1,1,2,2-Tetrachloroethane	Ave	1.231	1.215	0.3000	19.7	20.0	-1.3	30.0
Bromobenzene	Ave	0.8289	0.8372		20.2	20.0	1.0	30.0
1,2,3-Trichloropropane	Ave	0.3579	0.3465		19.4	20.0	-3.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-130493/11 Calibration Date: 05/25/2021 18:46

Instrument ID: 9137 Calib Start Date: 05/25/2021 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/25/2021 18:01

Lab File ID: WY25V01.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
trans-1,4-Dichloro-2-butene	Ave	0.4182	0.4208		101	100	0.6	30.0
N-Propylbenzene	Ave	3.530	3.527		20.0	20.0	-0.0	30.0
2-Chlorotoluene	Ave	0.7474	0.7355		19.7	20.0	-1.6	30.0
1,3,5-Trimethylbenzene	Ave	2.525	2.527		20.0	20.0	0.0	30.0
4-Chlorotoluene	Ave	0.7930	0.7945		20.0	20.0	0.2	30.0
tert-Butylbenzene	Ave	0.5213	0.5305		20.4	20.0	1.8	30.0
Pentachloroethane	Ave	0.4838	0.4853		20.1	20.0	0.3	30.0
1,2,4-Trimethylbenzene	Ave	2.669	2.669		20.0	20.0	-0.0	30.0
sec-Butylbenzene	Ave	2.665	2.795		21.0	20.0	4.9	30.0
1,3-Dichlorobenzene	Ave	1.507	1.486	0.6000	19.7	20.0	-1.4	30.0
p-Isopropyltoluene	Ave	2.378	2.434		20.5	20.0	2.3	30.0
1,4-Dichlorobenzene	Ave	1.563	1.568	0.5000	20.1	20.0	0.3	30.0
1,2,3-Trimethylbenzene	Ave	2.777	2.801		20.2	20.0	0.9	30.0
Benzyl chloride	Ave	2.594	2.506		19.3	20.0	-3.4	30.0
1,3-Diethylbenzene	Ave	1.454	1.438		19.8	20.0	-1.1	30.0
1,4-Diethylbenzene	Ave	1.513	1.499		19.8	20.0	-0.9	30.0
n-Butylbenzene	Ave	1.136	1.123		19.8	20.0	-1.2	30.0
1,2-Dichlorobenzene	Ave	1.503	1.494	0.4000	19.9	20.0	-0.6	30.0
1,2-Diethylbenzene	Ave	1.259	1.262		20.0	20.0	0.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3030	0.2720	0.0500	18.0	20.0	-10.2	30.0
1,2,4-Trichlorobenzene	Ave	0.9278	0.9178	0.2000	19.8	20.0	-1.1	30.0
1,2,3-Trichlorobenzene	Ave	0.9208	0.8831		19.2	20.0	-4.1	30.0
Hexachlorobutadiene	Ave	0.3521	0.3110		17.7	20.0	-11.7	30.0
Naphthalene	Ave	3.676	3.466		18.9	20.0	-5.7	30.0
1,3,5-Trichlorobenzene	Ave	0.8981	0.8675		19.3	20.0	-3.4	30.0
2-Methylnaphthalene	Ave	1.745	1.534		17.6	20.0	-12.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2278	0.2247		49.3	50.0	-1.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0603	0.0607		50.4	50.0	0.8	30.0
Toluene-d8 (Surr)	Ave	1.309	1.285		49.1	50.0	-1.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5075	0.5025		49.5	50.0	-1.0	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25V01.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-May-2021 18:46:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0030273-011
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 9137
Sublist:

Method: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 26-May-2021 14:38:10 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: riehlc Date: 26-May-2021 14:40:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.290	1.293	-0.003	99	117256	20.0	20.8	
3 Chloromethane	50	1.425	1.421	0.004	99	152496	20.0	17.9	
6 Vinyl chloride	62	1.498	1.502	-0.004	98	155905	20.0	18.7	
7 Butadiene	39	1.518	1.518	0.000	93	143136	20.0	18.1	
8 Bromomethane	94	1.723	1.726	-0.003	91	103418	20.0	18.6	
9 Chloroethane	64	1.800	1.803	-0.003	100	97064	20.0	18.7	
10 Dichlorofluoromethane	67	1.928	1.932	-0.004	98	230218	20.0	20.6	
11 Trichlorofluoromethane	101	1.973	1.980	-0.007	99	175038	20.0	20.9	
12 Pentane	43	2.031	2.038	-0.007	97	223730	20.0	20.8	
14 Ethanol	45	2.089	2.082	0.007	91	78056	1000.0	803.5	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	2.208	2.208	0.000	95	157831	20.0	21.3	
16 Acrolein	56	2.278	2.281	-0.003	99	249196	150.0	122.9	
17 1,1-Dichloroethene	96	2.387	2.387	0.000	99	129191	20.0	20.4	
19 112TCTFE	101	2.391	2.394	-0.003	67	112129	20.0	20.4	
18 Acetone	58	2.400	2.403	-0.003	100	195288	250.0	236.3	
21 Isopropyl alcohol	45	2.516	2.519	-0.003	54	68552	150.0	127.8	
22 Iodomethane	142	2.529	2.528	0.000	98	221605	20.0	19.0	
23 Carbon disulfide	76	2.573	2.577	-0.004	99	429266	20.0	19.1	
24 3-Chloro-1-propene	41	2.673	2.676	-0.003	91	213170	20.0	19.5	
25 Methyl acetate	43	2.692	2.695	-0.003	98	148238	20.0	18.9	
* 27 t-Butyl alcohol-d10 (IS)	65	2.808	2.808	0.000	40	272818	250.0	250.0	M
26 Methylene Chloride	84	2.817	2.814	0.003	95	151465	20.0	19.4	
28 2-Methyl-2-propanol	59	2.885	2.881	0.004	99	238806	200.0	195.2	M
29 Acrylonitrile	53	3.000	3.003	-0.003	98	346740	100.0	91.9	
30 trans-1,2-Dichloroethene	96	3.032	3.035	-0.003	96	130429	20.0	18.9	
31 Methyl tert-butyl ether	73	3.039	3.039	0.000	97	441495	20.0	18.4	
32 Hexane	57	3.292	3.295	-0.003	93	147489	20.0	19.0	
34 1,1-Dichloroethane	63	3.424	3.424	0.000	97	239719	20.0	19.4	
35 Isopropyl ether	45	3.494	3.494	0.000	94	460683	20.0	19.2	
36 2-Chloro-1,3-butadiene	53	3.507	3.510	-0.003	92	215260	20.0	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Tert-butyl ethyl ether	59	3.844	3.844	0.000	98	460841	20.0	19.6	
40 cis-1,2-Dichloroethene	96	3.973	3.972	0.000	83	147523	20.0	19.7	
39 2,2-Dichloropropane	77	3.973	3.976	-0.004	75	111101	20.0	21.3	
41 2-Butanone (MEK)	43	3.989	3.992	-0.003	100	1313993	250.0	235.0	
42 Propionitrile	54	4.046	4.043	0.003	99	194966	150.0	139.1	
43 Methacrylonitrile	67	4.194	4.194	0.000	93	639607	150.0	138.9	
44 Chlorobromomethane	128	4.204	4.204	0.000	97	72460	20.0	20.3	
45 Tetrahydrofuran	71	4.258	4.255	0.003	91	142526	100.0	96.8	
46 Chloroform	83	4.284	4.284	0.000	93	228350	20.0	19.0	
$ 48 Dibromofluoromethane (Surr)	113	4.438	4.438	0.000	94	279758	50.0	49.3	
49 1,1,1-Trichloroethane	97	4.470	4.470	0.000	98	195006	20.0	19.6	
50 Cyclohexane	56	4.534	4.534	0.000	94	220502	20.0	19.3	
51 1,1-Dichloropropene	75	4.634	4.634	0.000	94	185762	20.0	20.1	
52 Carbon tetrachloride	117	4.630	4.634	-0.004	79	161104	20.0	19.9	
54 Isobutyl alcohol	41	4.755	4.759	-0.004	95	175867	500.0	432.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	4.772	4.772	0.000	98	75620	50.0	50.4	
56 Benzene	78	4.836	4.839	-0.003	97	580724	20.0	20.0	
57 1,2-Dichloroethane	62	4.849	4.852	-0.003	96	188608	20.0	18.8	
58 Tert-amyl methyl ether	73	4.961	4.961	0.000	95	456206	20.0	19.7	
* 59 Fluorobenzene (IS)	96	5.118	5.118	0.000	98	1245279	50.0	50.0	
60 n-Heptane	43	5.125	5.124	0.000	87	144270	20.0	20.4	
61 n-Butanol	56	5.439	5.436	0.003	88	280291	1000.0	803.2	
62 Trichloroethene	95	5.494	5.494	0.000	98	141619	20.0	19.4	
63 Methylcyclohexane	83	5.699	5.699	0.000	94	186649	20.0	20.2	
64 1,2-Dichloropropane	63	5.725	5.721	0.004	96	156013	20.0	19.7	
66 2-ethoxy-2-methyl butane	87	5.773	5.776	-0.003	92	224351	20.0	19.6	
67 Dibromomethane	93	5.840	5.840	0.000	97	93251	20.0	19.4	
68 Methyl methacrylate	69	5.863	5.863	0.000	94	153497	20.0	18.9	
69 1,4-Dioxane	88	5.872	5.869	0.003	95	46102	500.0	446.9	M
70 Dichlorobromomethane	83	6.010	6.013	-0.003	98	181857	20.0	19.2	
71 2-Nitropropane	41	6.251	6.257	-0.006	97	59566	20.0	19.7	
72 2-Chloroethyl vinyl ether	63	6.347	6.344	0.003	92	117342	20.0	19.5	
74 cis-1,3-Dichloropropene	75	6.495	6.491	0.004	95	243162	20.0	19.2	
76 4-Methyl-2-pentanone (MIBK)	43	6.668	6.671	-0.003	97	2890920	250.0	231.4	
$ 77 Toluene-d8 (Surr)	98	6.784	6.783	0.001	94	1227423	50.0	49.1	
78 Toluene	92	6.857	6.854	0.003	98	362502	20.0	19.3	
79 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	95	245037	20.0	20.1	
80 Ethyl methacrylate	69	7.217	7.220	-0.003	90	258493	20.0	18.3	
81 1,1,2-Trichloroethane	97	7.294	7.294	0.000	91	142596	20.0	19.5	
84 Tetrachloroethene	166	7.441	7.441	0.000	98	145724	20.0	20.2	
85 1,3-Dichloropropane	76	7.464	7.464	0.000	92	242807	20.0	19.3	
88 2-Hexanone	43	7.566	7.563	0.003	96	2396996	250.0	254.0	
89 Chlorodibromomethane	129	7.685	7.688	-0.003	90	148826	20.0	19.1	
90 Ethylene Dibromide	107	7.794	7.794	0.000	99	153651	20.0	19.4	
* 92 Chlorobenzene-d5 (IS)	117	8.231	8.231	0.000	87	954911	50.0	50.0	
93 1-Chlorohexane	91	8.250	8.250	0.000	97	174065	20.0	18.9	
94 Chlorobenzene	112	8.256	8.256	0.000	94	392172	20.0	19.6	
95 1,1,1,2-Tetrachloroethane	131	8.330	8.330	0.000	96	133633	20.0	19.6	
96 Ethylbenzene	91	8.362	8.362	0.000	98	684774	20.0	20.1	
97 m-Xylene & p-Xylene	106	8.465	8.465	0.000	100	524758	40.0	39.8	
98 o-Xylene	106	8.802	8.799	0.003	97	256386	20.0	19.3	
99 Styrene	104	8.815	8.812	0.003	94	466542	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Bromoform	173	8.956	8.956	0.000	97	120676	20.0	19.6	
102 Isopropylbenzene	105	9.107	9.107	0.000	96	633106	20.0	20.5	
103 Cyclohexanone	55	9.171	9.171	0.000	93	211321	500.0	375.9	
$ 104 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	88	479883	50.0	49.5	
105 Bromobenzene	156	9.338	9.338	0.000	95	170658	20.0	20.2	
106 1,1,2,2-Tetrachloroethane	83	9.338	9.338	0.000	92	247735	20.0	19.7	
107 1,2,3-Trichloropropane	110	9.370	9.370	0.000	81	70641	20.0	19.4	
108 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	92	428859	100.0	100.6	
109 N-Propylbenzene	91	9.431	9.431	0.000	99	719034	20.0	20.0	
111 2-Chlorotoluene	126	9.492	9.492	0.000	96	149941	20.0	19.7	
112 1,3,5-Trimethylbenzene	105	9.566	9.566	0.000	95	515174	20.0	20.0	
113 4-Chlorotoluene	126	9.575	9.575	0.000	99	161959	20.0	20.0	
114 tert-Butylbenzene	134	9.813	9.809	0.004	93	108139	20.0	20.4	
115 Pentachloroethane	167	9.819	9.822	-0.003	85	98929	20.0	20.1	
116 1,2,4-Trimethylbenzene	105	9.845	9.845	0.000	98	544062	20.0	20.0	
117 sec-Butylbenzene	105	9.973	9.973	0.000	94	569796	20.0	21.0	
118 1,3-Dichlorobenzene	146	10.047	10.047	0.000	98	302849	20.0	19.7	
119 4-Isopropyltoluene	119	10.076	10.079	-0.003	97	496110	20.0	20.5	
* 120 1,4-Dichlorobenzene-d4	152	10.095	10.095	0.000	96	509633	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.111	10.114	-0.003	96	319715	20.0	20.1	
122 1,2,3-Trimethylbenzene	105	10.153	10.153	0.000	99	570908	20.0	20.2	
124 Benzyl chloride	91	10.211	10.211	0.000	99	510878	20.0	19.3	
125 1,3-Diethylbenzene	119	10.291	10.291	0.000	94	293066	20.0	19.8	M
126 p-Diethylbenzene	119	10.352	10.352	0.000	93	305674	20.0	19.8	M
127 n-Butylbenzene	92	10.368	10.368	0.000	97	228860	20.0	19.8	
128 1,2-Dichlorobenzene	146	10.381	10.377	0.004	98	304602	20.0	19.9	
129 o-diethylbenzene	119	10.435	10.435	0.000	96	257278	20.0	20.0	
130 1,2-Dibromo-3-Chloropropane	75	10.913	10.913	0.000	85	55453	20.0	18.0	
133 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	94	187102	20.0	19.8	
136 1,2,3-Trichlorobenzene	180	11.472	11.469	0.004	95	180023	20.0	19.2	
134 Hexachlorobutadiene	225	11.581	11.581	0.000	97	63402	20.0	17.7	
135 Naphthalene	128	11.632	11.632	0.000	97	706625	20.0	18.9	
131 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	98	176851	20.0	19.3	
137 2-Methylnaphthalene	142	12.354	12.354	0.000	93	312763	20.0	17.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QCYC_00005	Amount Added:	50.00	Units: uL	
MSV_Q_ETOH_00009	Amount Added:	50.00	Units: uL	
MSV_LCS_Penta_00002	Amount Added:	50.00	Units: uL	
MSV_LCS_2CEVE_00002	Amount Added:	50.00	Units: uL	
MSV_LCS_VOC#1_00002	Amount Added:	50.00	Units: uL	
MSV_LCS_Gases_00002	Amount Added:	50.00	Units: uL	
MSV_HP18_ISSS_00011	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 26-May-2021 14:40:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25V01.D

Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137 Operator ID: kas02648

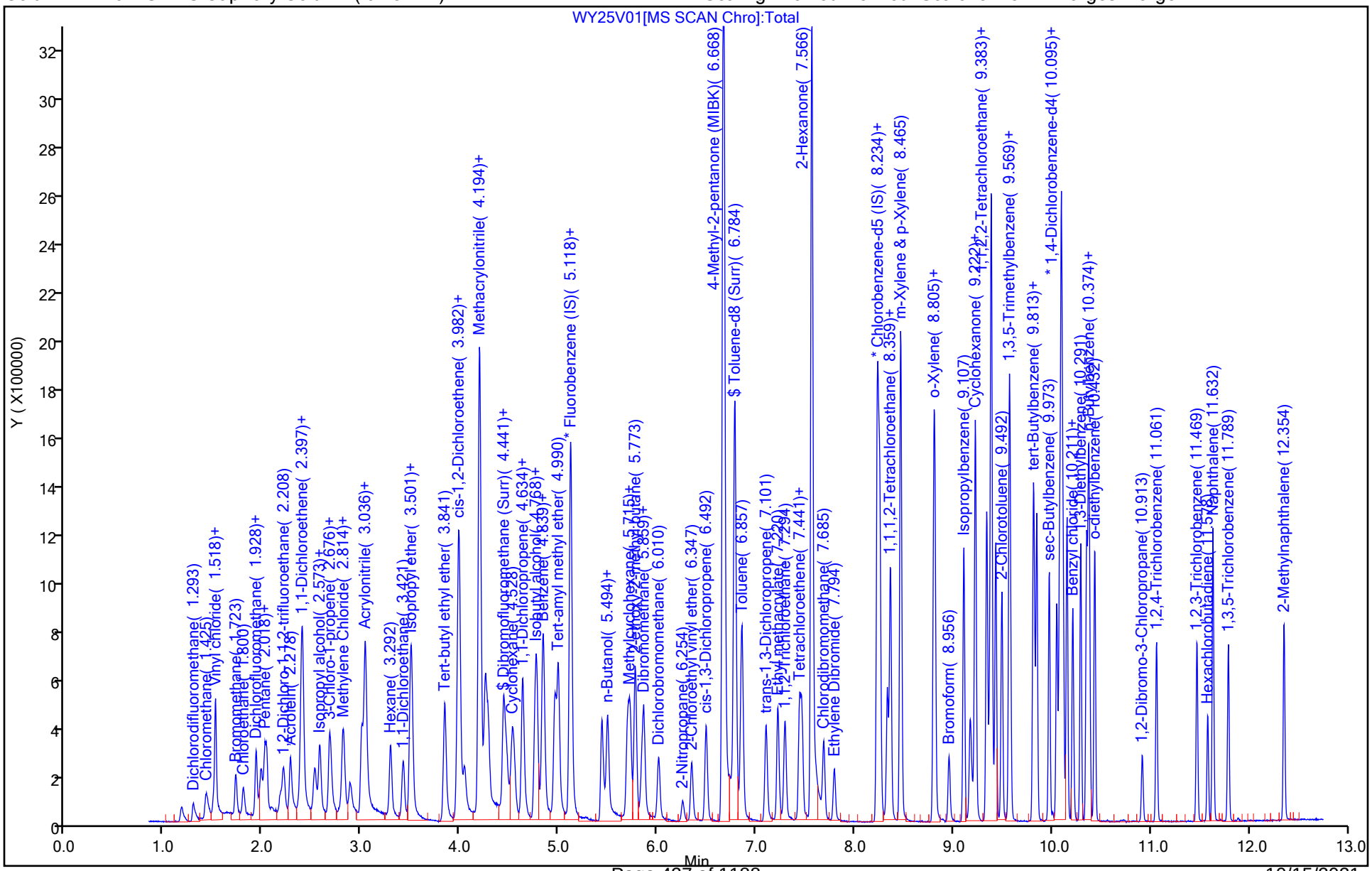
Lims ID: ICV Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9137 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

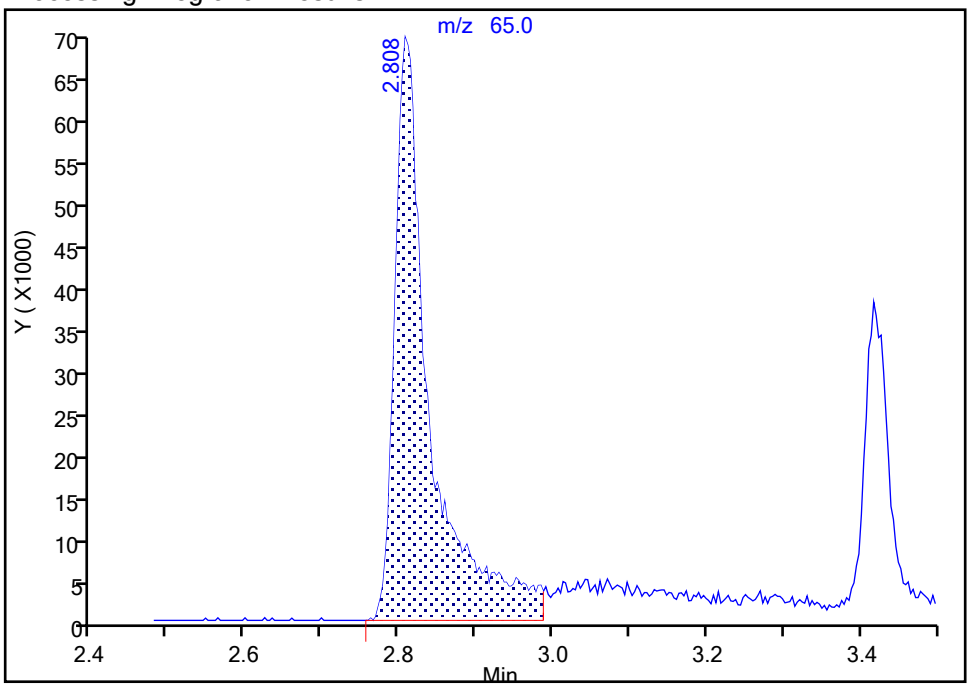
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Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

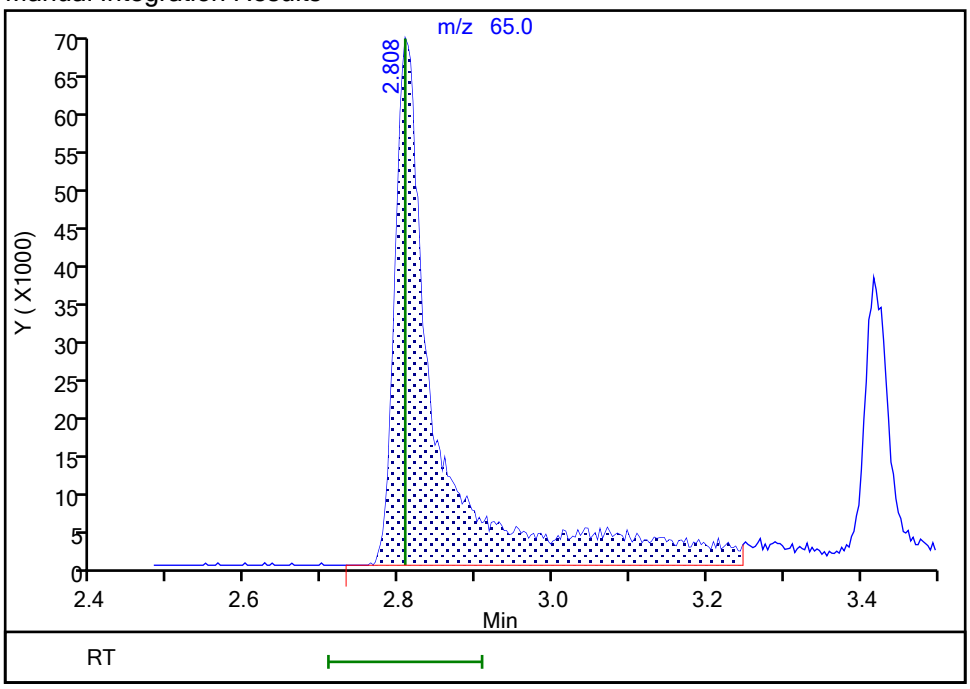
Processing Integration Results

RT: 2.81
Area: 220637
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 272818
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:56:06
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

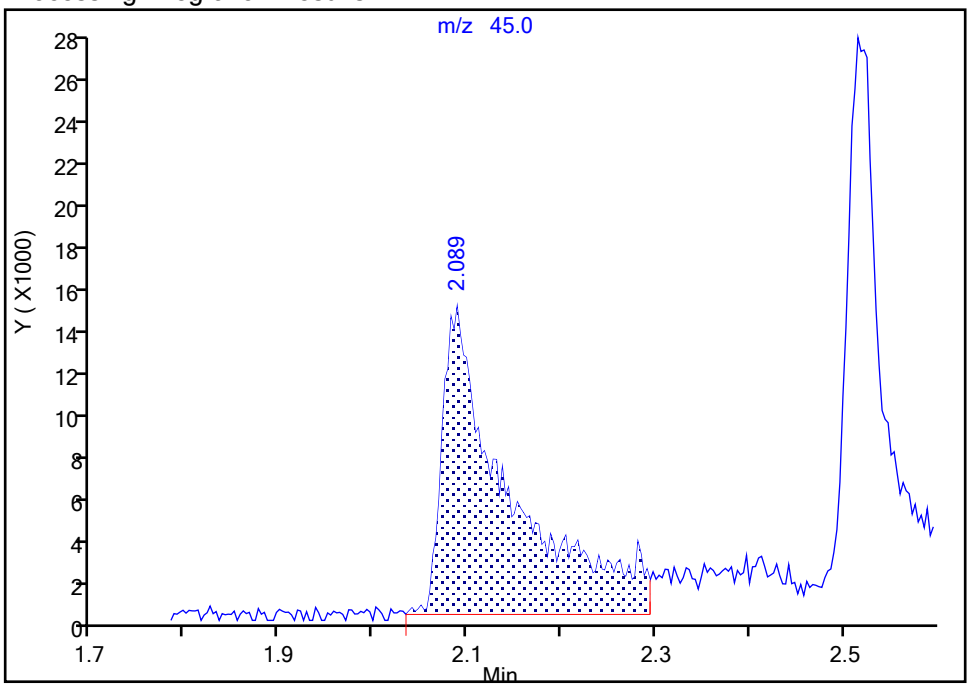
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25V01.D
Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

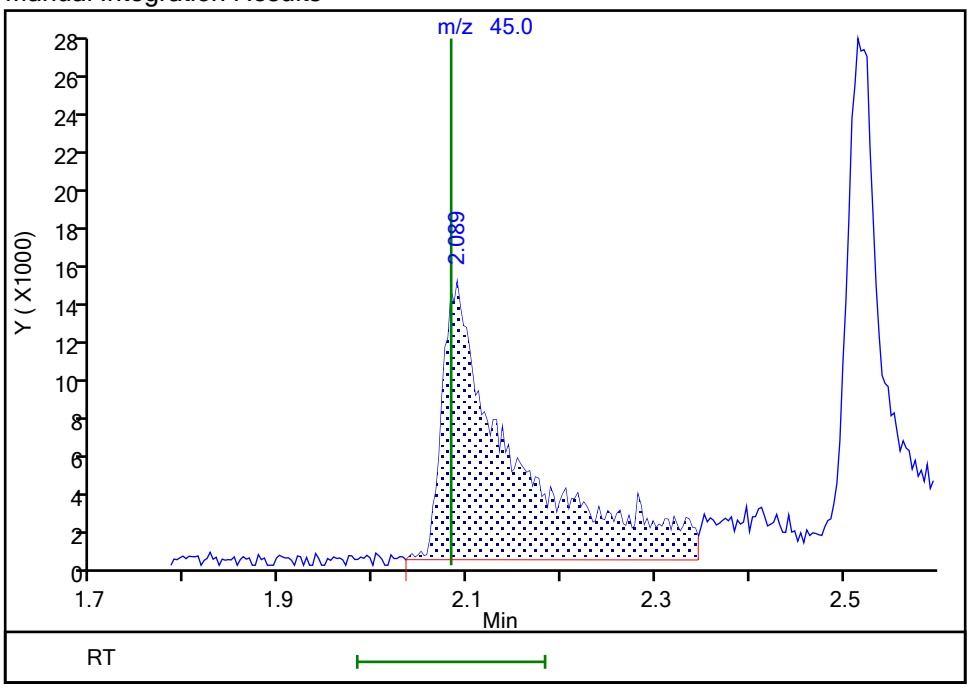
Processing Integration Results

RT: 2.09
Area: 72459
Amount: 927.9808
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 78056
Amount: 803.5293
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:55:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

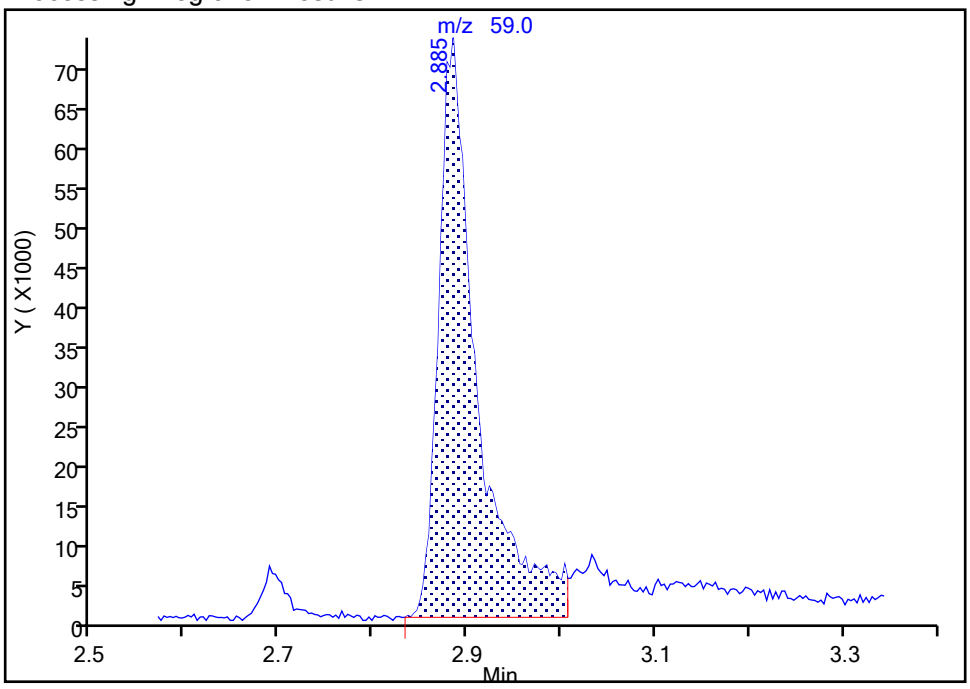
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Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

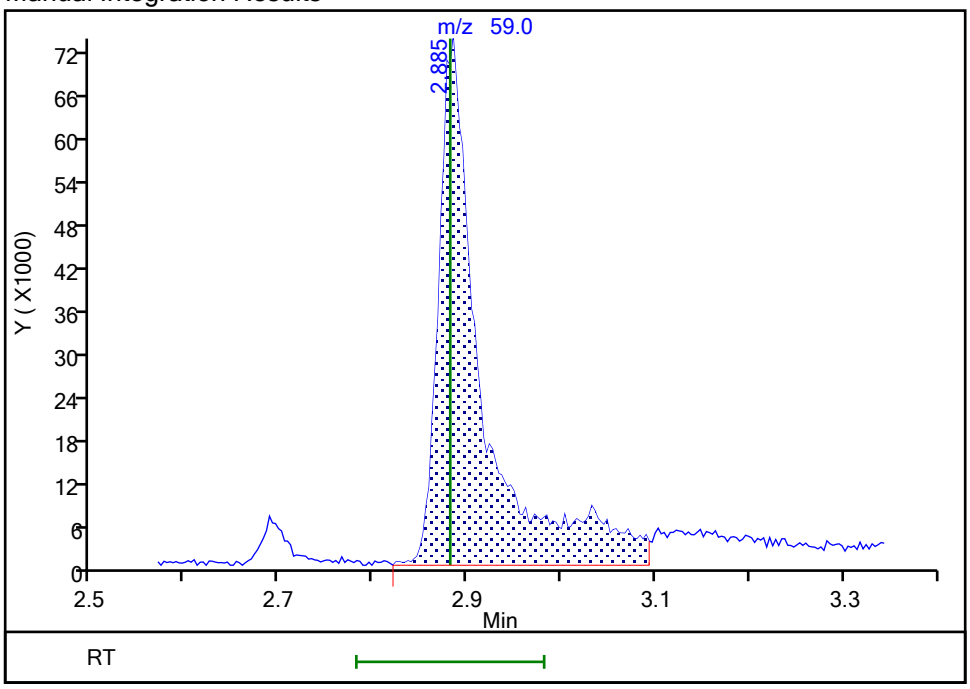
Processing Integration Results

RT: 2.88
Area: 207084
Amount: 169.2413
Amount Units: ug/l



Manual Integration Results

RT: 2.88
Area: 238806
Amount: 195.1664
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:57:32
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

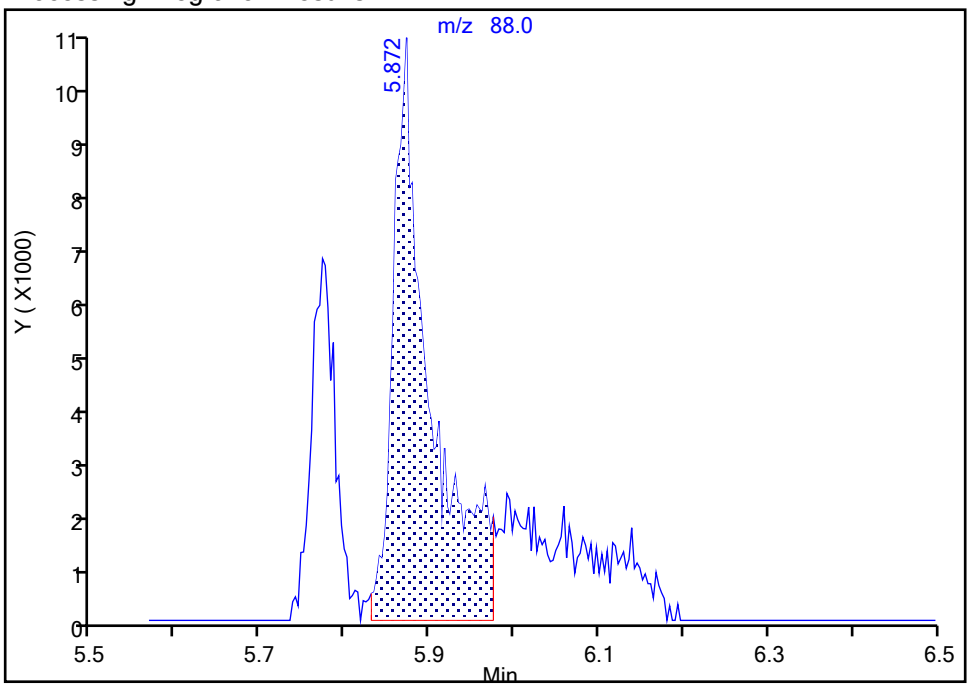
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Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

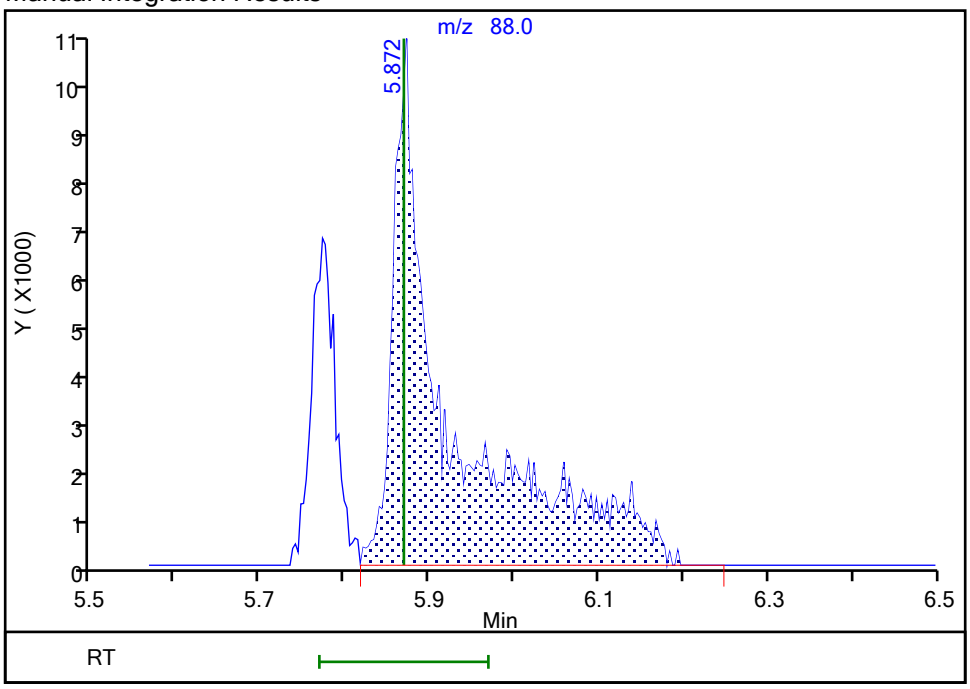
Processing Integration Results

RT: 5.87
Area: 30778
Amount: 298.3239
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 46102
Amount: 446.8559
Amount Units: ug/l



Reviewer: papel, 26-May-2021 10:58:47
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

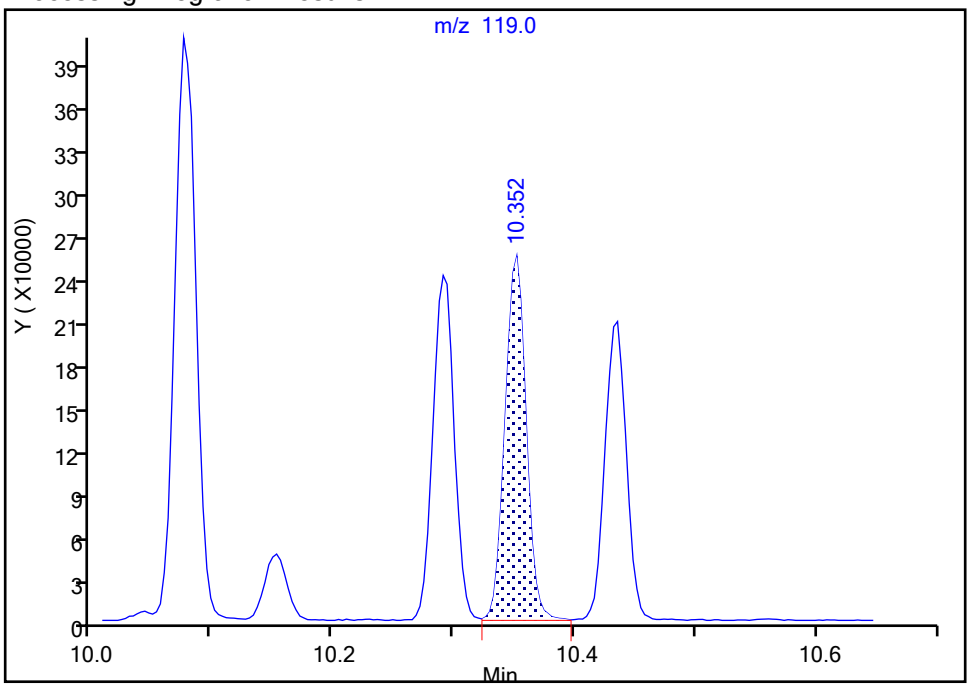
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25V01.D
Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

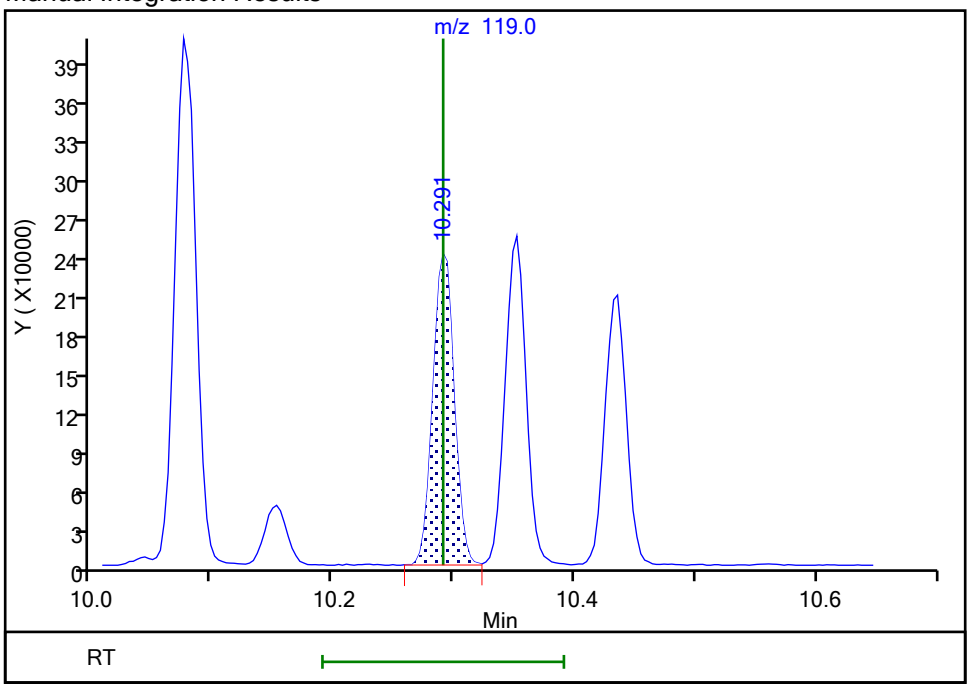
Processing Integration Results

RT: 10.35
Area: 306090
Amount: 20.655262
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 293066
Amount: 19.776389
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:41:55
Audit Action: Manually Integrated Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

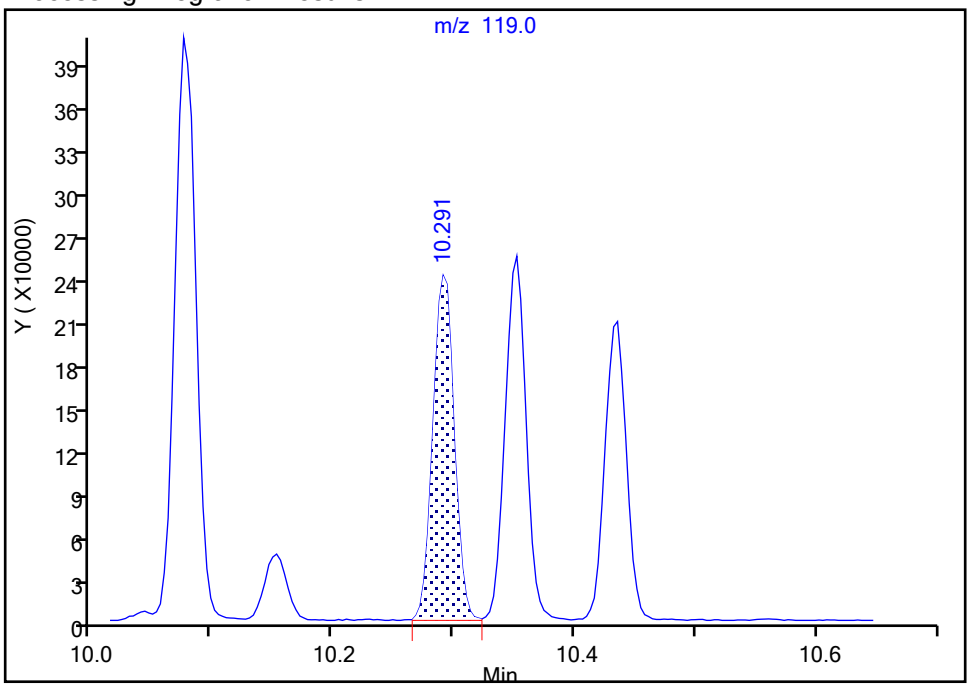
Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25V01.D
Injection Date: 25-May-2021 18:46:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

126 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

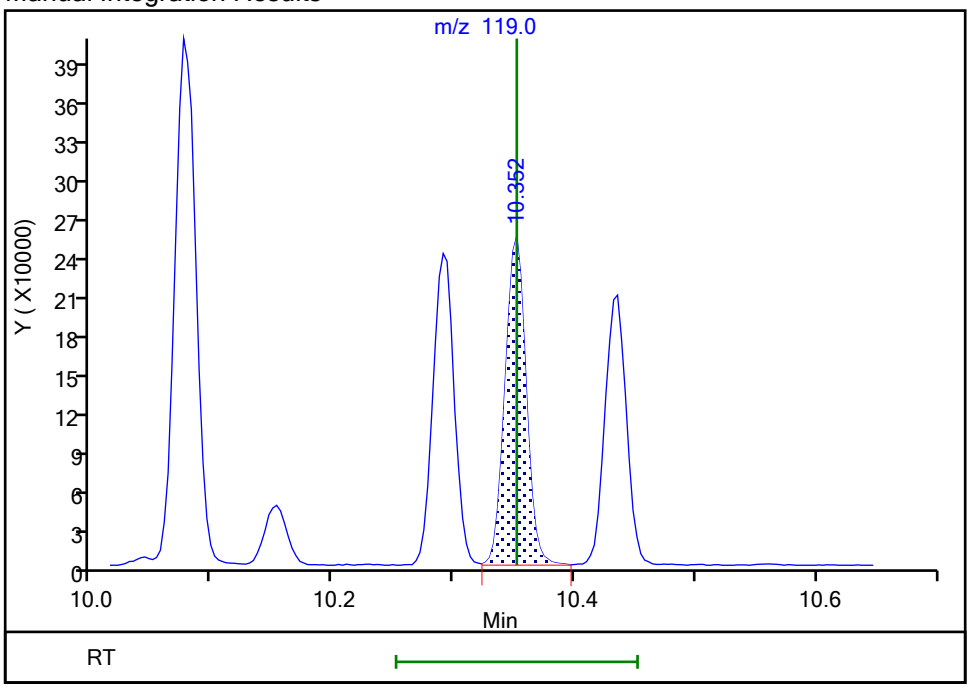
Processing Integration Results

RT: 10.29
Area: 293612
Amount: 19.044555
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 305674
Amount: 19.826933
Amount Units: ug/l



Reviewer: riehlc, 26-May-2021 13:42:04
Audit Action: Manually Integrated Audit Reason: Wrong peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-181168/3 Calibration Date: 10/11/2021 09:21

Instrument ID: 9137 Calib Start Date: 05/25/2021 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/25/2021 18:01

Lab File ID: WC11X02.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	0.2262	0.2663	0.1000	58.9	50.0	17.7	20.0
Chloromethane	Ave	0.3421	0.4021	0.1000	58.8	50.0	17.5	20.0
Vinyl chloride	Ave	0.3354	0.4124	0.1000	61.5	50.0	22.9*	20.0
1,3-Butadiene	Ave	0.3167	0.3568		56.3	50.0	12.6	20.0
Bromomethane	Ave	0.2238	0.2611	0.1000	58.3	50.0	16.7	20.0
Chloroethane	Ave	0.2080	0.2476	0.1000	59.5	50.0	19.0	20.0
Dichlorofluoromethane	Ave	0.4493	0.4974		55.4	50.0	10.7	20.0
Trichlorofluoromethane	Ave	0.3363	0.3811	0.1000	56.7	50.0	13.3	20.0
n-Pentane	Ave	0.4323	0.3135		36.3	50.0	-27.5*	20.0
Ethanol	Lin		0.1122		1610	1250	29.0*	20.0
Freon 123a	Ave	0.2980	0.3634		61.0	50.0	22.0*	20.0
Acrolein	Ave	1.858	2.178		587	501	17.2	20.0
1,1-Dichloroethene	Ave	0.2546	0.2763	0.1000	54.3	50.0	8.5	20.0
Freon 113	Ave	0.2202	0.2065	0.1000	46.9	50.0	-6.2	20.0
Acetone	Lin		0.9150	0.1000	120	100	19.6	20.0
2-Propanol	Lin1		0.4168		202	250	-19.2	20.0
Methyl iodide	Ave	0.4671	0.4011		42.9	50.0	-14.1	20.0
Carbon disulfide	Ave	0.9026	0.7943	0.1000	44.0	50.0	-12.0	20.0
Allyl chloride	Ave	0.4398	0.4366		49.6	50.0	-0.7	20.0
Methyl acetate	Ave	0.3151	0.3376	0.1000	53.6	50.0	7.1	20.0
Methylene Chloride	Ave	0.3127	0.3227	0.1000	51.6	50.0	3.2	20.0
t-Butyl alcohol	Ave	1.121	1.127		251	250	0.5	20.0
Acrylonitrile	Ave	0.1514	0.1802		149	125	19.0	20.0
trans-1,2-Dichloroethene	Ave	0.2768	0.2774	0.1000	50.1	50.0	0.2	20.0
Methyl tertiary butyl ether	Ave	0.9640	0.8570	0.1000	44.5	50.0	-11.1	20.0
n-Hexane	Ave	0.3119	0.3659		58.7	50.0	17.3	20.0
1,1-Dichloroethane	Ave	0.4955	0.4945	0.2000	49.9	50.0	-0.2	20.0
di-Isopropyl ether	Ave	0.9614	0.9607		50.0	50.0	-0.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4540	0.4160		45.8	50.0	-8.4	20.0
Ethyl t-butyl ether	Ave	0.9450	0.7556		40.0	50.0	-20.0	20.0
2,2-Dichloropropane	Ave	0.2094	0.2232		53.3	50.0	6.6	20.0
cis-1,2-Dichloroethene	Ave	0.3005	0.3046	0.1000	50.7	50.0	1.4	20.0
2-Butanone	Ave	0.2245	0.2479	0.1000	110	100	10.4	20.0
Propionitrile	Ave	1.284	1.479		288	250	15.2	20.0
Methacrylonitrile	Ave	0.1849	0.2052		139	125	11.0	20.0
Bromochloromethane	Ave	0.1432	0.1569		54.8	50.0	9.6	20.0
Tetrahydrofuran	Ave	1.350	1.366		253	250	1.2	20.0
Chloroform	Ave	0.4825	0.4688	0.2000	48.6	50.0	-2.8	20.0
1,1,1-Trichloroethane	Ave	0.3993	0.3495	0.1000	43.8	50.0	-12.5	20.0
Cyclohexane	Ave	0.4583	0.4523	0.1000	49.4	50.0	-1.3	20.0
1,1-Dichloropropene	Ave	0.3709	0.3781		51.0	50.0	1.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-181168/3 Calibration Date: 10/11/2021 09:21

Instrument ID: 9137 Calib Start Date: 05/25/2021 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/25/2021 18:01

Lab File ID: WC11X02.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	0.3245	0.2805	0.1000	43.2	50.0	-13.6	20.0
Isobutyl alcohol	Ave	0.3729	0.3831		642	625	2.7	20.0
Benzene	Ave	1.164	1.228	0.5000	52.8	50.0	5.5	20.0
1,2-Dichloroethane	Ave	0.4027	0.3566	0.1000	44.3	50.0	-11.5	20.0
t-Amyl methyl ether	Ave	0.9287	0.7739		41.7	50.0	-16.7	20.0
n-Heptane	Ave	0.2843	0.3269		57.5	50.0	15.0	20.0
n-Butanol	Ave	0.3198	0.3009		588	625	-5.9	20.0
Trichloroethene	Ave	0.2934	0.2958	0.2000	50.4	50.0	0.8	20.0
Methylcyclohexane	Ave	0.3717	0.4577	0.1000	61.6	50.0	23.1*	20.0
1,2-Dichloropropane	Ave	0.3179	0.3319	0.1000	52.2	50.0	4.4	20.0
t-Amyl ethyl ether	Ave	0.4604	0.3619		39.3	50.0	-21.4*	20.0
Dibromomethane	Ave	0.1926	0.1991		51.7	50.0	3.4	20.0
Methyl methacrylate	Ave	0.3256	0.3233		49.6	50.0	-0.7	20.0
1,4-Dioxane	Ave	0.0945	0.0750	0.0050	496	625	-20.7*	20.0
Bromodichloromethane	Ave	0.3807	0.3605	0.2000	47.3	50.0	-5.3	20.0
2-Nitropropane	Ave	2.766	2.012		182	250	-27.2*	20.0
2-Chloroethyl vinyl ether	Ave	0.2422	0.2080		43.0	50.0	-14.1	20.0
cis-1,3-Dichloropropene	Ave	0.5083	0.4995	0.2000	49.1	50.0	-1.7	20.0
4-Methyl-2-pentanone	Ave	0.5015	0.5041	0.1000	101	100	0.5	20.0
Toluene	Ave	0.9817	1.002	0.4000	51.0	50.0	2.0	20.0
trans-1,3-Dichloropropene	Ave	0.6383	0.5853	0.1000	45.9	50.0	-8.3	20.0
Ethyl methacrylate	Ave	0.7381	0.6742		45.7	50.0	-8.7	20.0
1,1,2-Trichloroethane	Ave	0.3828	0.3884	0.1000	50.7	50.0	1.5	20.0
Tetrachloroethene	Ave	0.3779	0.4017	0.2000	53.2	50.0	6.3	20.0
1,3-Dichloropropane	Ave	0.6590	0.6643		50.4	50.0	0.8	20.0
2-Hexanone	Ave	0.4942	0.4911	0.1000	99.4	100	-0.6	20.0
Dibromochloromethane	Ave	0.4086	0.3949		48.3	50.0	-3.3	20.0
1,2-Dibromoethane	Ave	0.4138	0.4207	0.1000	50.8	50.0	1.7	20.0
1-Chlorohexane	Ave	0.4813	0.5039		52.3	50.0	4.7	20.0
Chlorobenzene	Ave	1.047	1.092	0.5000	52.1	50.0	4.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3578	0.3623		50.6	50.0	1.2	20.0
Ethylbenzene	Ave	1.787	1.843	0.1000	51.6	50.0	3.2	20.0
m&p-Xylene	Ave	0.6902	0.7272	0.1000	105	100	5.4	20.0
o-Xylene	Ave	0.6962	0.7122	0.3000	51.2	50.0	2.3	20.0
Styrene	Ave	1.215	1.236	0.3000	50.8	50.0	1.7	20.0
Bromoform	Ave	0.3228	0.3128	0.1000	48.5	50.0	-3.1	20.0
Isopropylbenzene	Ave	1.617	1.714	0.1000	53.0	50.0	6.1	20.0
Cyclohexanone	Ave	0.5152	0.4108		498	625	-20.3*	20.0
Bromobenzene	Ave	0.8289	0.8584		51.8	50.0	3.6	20.0
1,1,2,2-Tetrachloroethane	Ave	1.231	1.235	0.3000	50.2	50.0	0.3	20.0
1,2,3-Trichloropropane	Ave	0.3579	0.3441		48.1	50.0	-3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-181168/3 Calibration Date: 10/11/2021 09:21

Instrument ID: 9137 Calib Start Date: 05/25/2021 15:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/25/2021 18:01

Lab File ID: WC11X02.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
trans-1,4-Dichloro-2-butene	Ave	0.4182	0.3024		90.4	125	-27.7*	20.0
N-Propylbenzene	Ave	3.530	3.749		53.1	50.0	6.2	20.0
2-Chlorotoluene	Ave	0.7474	0.7734		51.7	50.0	3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.525	2.639		52.3	50.0	4.5	20.0
4-Chlorotoluene	Ave	0.7930	0.8341		52.6	50.0	5.2	20.0
tert-Butylbenzene	Ave	0.5213	0.5344		51.3	50.0	2.5	20.0
1,2,4-Trimethylbenzene	Ave	2.669	2.780		52.1	50.0	4.1	20.0
sec-Butylbenzene	Ave	2.665	3.029		56.8	50.0	13.6	20.0
1,3-Dichlorobenzene	Ave	1.507	1.627	0.6000	54.0	50.0	7.9	20.0
p-Isopropyltoluene	Ave	2.378	2.699		56.7	50.0	13.5	20.0
1,4-Dichlorobenzene	Ave	1.563	1.687	0.5000	53.9	50.0	7.9	20.0
1,2,3-Trimethylbenzene	Ave	2.777	2.921		52.6	50.0	5.2	20.0
Benzyl chloride	Ave	2.594	2.348		45.3	50.0	-9.5	20.0
1,4-Diethylbenzene	Ave	1.513	1.685		55.7	50.0	11.4	20.0
1,3-Diethylbenzene	Ave	1.454	1.748		60.1	50.0	20.2*	20.0
n-Butylbenzene	Ave	1.136	1.328		58.5	50.0	16.9	20.0
1,2-Dichlorobenzene	Ave	1.503	1.611	0.4000	53.6	50.0	7.2	20.0
1,2-Diethylbenzene	Ave	1.259	1.491		59.2	50.0	18.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3030	0.2820	0.0500	46.5	50.0	-6.9	20.0
1,2,4-Trichlorobenzene	Ave	0.9278	1.175	0.2000	63.3	50.0	26.7*	20.0
1,2,3-Trichlorobenzene	Ave	0.9208	1.101		59.8	50.0	19.6	20.0
Hexachlorobutadiene	Ave	0.3521	0.4014		57.0	50.0	14.0	20.0
Naphthalene	Ave	3.676	3.865		52.6	50.0	5.1	20.0
1,3,5-Trichlorobenzene	Ave	0.8981	1.051		58.5	50.0	17.0	20.0
2-Methylnaphthalene	Ave	1.745	1.639		47.0	50.0	-6.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2278	0.2212		48.5	50.0	-2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0603	0.0626		52.0	50.0	3.9	20.0
Toluene-d8 (Surr)	Ave	1.309	1.272		48.6	50.0	-2.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5075	0.4705		46.4	50.0	-7.3	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Oct-2021 09:21:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-003
Misc. Info.: CCVIS
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 12:26:30 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: papel Date: 11-Oct-2021 09:47:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	1.290	1.290	0.000	99	280138	50.0	58.9	
7 Chloromethane	50	1.428	1.428	0.000	98	423035	50.0	58.8	a
8 Vinyl chloride	62	1.495	1.495	0.000	99	433802	50.0	61.5	
9 Butadiene	39	1.521	1.521	0.000	88	375294	50.0	56.3	M
10 Bromomethane	94	1.739	1.739	0.000	90	274688	50.0	58.3	
11 Chloroethane	64	1.806	1.806	0.000	99	260463	50.0	59.5	
13 Dichlorofluoromethane	67	1.938	1.938	0.000	97	523264	50.0	55.4	
14 Trichlorofluoromethane	101	1.986	1.986	0.000	98	400946	50.0	56.7	
15 Pentane	43	2.025	2.025	0.000	96	329769	50.0	36.3	
16 Ethanol	45	2.089	2.089	0.000	22	151898	1250.0	1612.4	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.185	2.185	0.000	92	382321	50.0	61.0	
18 Acrolein	56	2.281	2.281	0.000	99	1181984	501.1	587.4	
20 1,1-Dichloroethene	96	2.394	2.394	0.000	98	290707	50.0	54.3	
21 112TCTFE	101	2.400	2.400	0.000	59	217270	50.0	46.9	
22 Acetone	58	2.406	2.406	0.000	99	99094	100.0	119.6	
23 Isopropyl alcohol	45	2.519	2.519	0.000	78	112853	250.0	201.9	
24 Iodomethane	142	2.532	2.532	0.000	97	421963	50.0	42.9	
25 Carbon disulfide	76	2.580	2.580	0.000	98	835610	50.0	44.0	M
26 3-Chloro-1-propene	41	2.679	2.679	0.000	94	459263	50.0	49.6	
27 Methyl acetate	43	2.698	2.698	0.000	98	355162	50.0	53.6	
* 28 t-Butyl alcohol-d10 (IS)	65	2.808	2.808	0.000	97	270747	250.0	250.0	M
29 Methylene Chloride	84	2.817	2.817	0.000	94	339491	50.0	51.6	a
30 2-Methyl-2-propanol	59	2.885	2.885	0.000	100	305162	250.0	251.3	
31 Acrylonitrile	53	3.003	3.003	0.000	99	473973	125.0	148.8	
32 trans-1,2-Dichloroethene	96	3.039	3.039	0.000	99	291834	50.0	50.1	
33 Methyl tert-butyl ether	73	3.042	3.042	0.000	95	901515	50.0	44.5	
35 Hexane	57	3.295	3.295	0.000	90	384949	50.0	58.7	
36 1,1-Dichloroethane	63	3.424	3.424	0.000	96	520145	50.0	49.9	
37 Isopropyl ether	45	3.498	3.498	0.000	95	1010646	50.0	50.0	
38 2-Chloro-1,3-butadiene	53	3.514	3.514	0.000	89	437568	50.0	45.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.841	3.841	0.000	98	794896	50.0	40.0	
41 cis-1,2-Dichloroethene	96	3.976	3.976	0.000	81	320467	50.0	50.7	
42 2,2-Dichloropropane	77	3.976	3.976	0.000	55	234794	50.0	53.3	
43 2-Butanone (MEK)	43	3.992	3.992	0.000	99	521496	100.0	110.4	
44 Propionitrile	54	4.049	4.049	0.000	100	400390	250.0	287.9	
45 Methacrylonitrile	67	4.197	4.197	0.000	91	539733	125.0	138.7	
46 Chlorobromomethane	128	4.207	4.207	0.000	97	165090	50.0	54.8	
47 Tetrahydrofuran	71	4.255	4.255	0.000	91	369717	250.0	252.9	
48 Chloroform	83	4.284	4.284	0.000	94	493118	50.0	48.6	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	232698	50.0	48.5	
51 1,1,1-Trichloroethane	97	4.470	4.470	0.000	98	367657	50.0	43.8	
53 Cyclohexane	56	4.531	4.531	0.000	89	475832	50.0	49.4	
54 1,1-Dichloropropene	75	4.637	4.637	0.000	97	397737	50.0	51.0	
55 Carbon tetrachloride	117	4.637	4.637	0.000	73	295022	50.0	43.2	
56 Isobutyl alcohol	41	4.759	4.759	0.000	95	259322	625.0	642.1	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.775	0.000	89	65877	50.0	52.0	
58 Benzene	78	4.842	4.842	0.000	95	1291865	50.0	52.8	
59 1,2-Dichloroethane	62	4.855	4.855	0.000	95	375077	50.0	44.3	
60 Tert-amyl methyl ether	73	4.961	4.961	0.000	99	814103	50.0	41.7	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	1051958	50.0	50.0	
62 n-Heptane	43	5.124	5.124	0.000	91	343915	50.0	57.5	
63 n-Butanol	56	5.442	5.442	0.000	90	203648	625.0	588.0	
64 Trichloroethene	95	5.497	5.497	0.000	98	311119	50.0	50.4	
66 Methylcyclohexane	83	5.699	5.699	0.000	92	481518	50.0	61.6	
67 1,2-Dichloropropane	63	5.724	5.724	0.000	96	349096	50.0	52.2	
68 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	94	380720	50.0	39.3	
69 Dibromomethane	93	5.840	5.840	0.000	96	209454	50.0	51.7	
70 Methyl methacrylate	69	5.866	5.866	0.000	93	340147	50.0	49.6	
71 1,4-Dioxane	88	5.872	5.872	0.000	31	50754	625.0	495.7	
72 Dichlorobromomethane	83	6.013	6.013	0.000	100	379231	50.0	47.3	
74 2-Nitropropane	41	6.260	6.260	0.000	98	544853	250.0	181.9	
75 2-Chloroethyl vinyl ether	63	6.347	6.347	0.000	91	218853	50.0	43.0	
77 cis-1,3-Dichloropropene	75	6.495	6.495	0.000	97	525444	50.0	49.1	
78 4-Methyl-2-pentanone (MIBK)	43	6.674	6.674	0.000	96	1060595	100.0	100.5	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	92	1041316	50.0	48.6	
80 Toluene	92	6.857	6.857	0.000	98	819772	50.0	51.0	
81 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	91	479063	50.0	45.9	
84 Ethyl methacrylate	69	7.223	7.223	0.000	89	551832	50.0	45.7	
86 1,1,2-Trichloroethane	97	7.294	7.294	0.000	89	317863	50.0	50.7	
88 Tetrachloroethene	166	7.444	7.444	0.000	98	328784	50.0	53.2	
89 1,3-Dichloropropane	76	7.467	7.467	0.000	89	543672	50.0	50.4	
90 2-Hexanone	43	7.566	7.566	0.000	95	803924	100.0	99.4	
91 Chlorodibromomethane	129	7.688	7.688	0.000	90	323237	50.0	48.3	
92 Ethylene Dibromide	107	7.791	7.791	0.000	98	344286	50.0	50.8	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	85	818461	50.0	50.0	
95 1-Chlorohexane	91	8.253	8.253	0.000	98	412401	50.0	52.3	
96 Chlorobenzene	112	8.256	8.256	0.000	95	893386	50.0	52.1	
97 1,1,1,2-Tetrachloroethane	131	8.333	8.333	0.000	97	296494	50.0	50.6	
98 Ethylbenzene	91	8.362	8.362	0.000	98	1508740	50.0	51.6	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	100	1190347	100.0	105.4	
100 o-Xylene	106	8.805	8.805	0.000	96	582938	50.0	51.2	
101 Styrene	104	8.815	8.815	0.000	95	1011423	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Bromoform	173	8.959	8.959	0.000	98	255995	50.0	48.5	
104 Isopropylbenzene	105	9.110	9.110	0.000	95	1403234	50.0	53.0	
105 Cyclohexanone	55	9.174	9.174	0.000	90	278040	625.0	498.4	
$ 106 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	93	385048	50.0	46.4	
108 Bromobenzene	156	9.338	9.338	0.000	93	387247	50.0	51.8	
109 1,1,2,2-Tetrachloroethane	83	9.341	9.341	0.000	93	557052	50.0	50.2	
110 1,2,3-Trichloropropane	110	9.373	9.373	0.000	84	155213	50.0	48.1	
111 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	93	341022	125.0	90.4	
112 N-Propylbenzene	91	9.431	9.431	0.000	99	1691123	50.0	53.1	
113 2-Chlorotoluene	126	9.492	9.492	0.000	97	348888	50.0	51.7	
114 1,3,5-Trimethylbenzene	105	9.569	9.569	0.000	95	1190476	50.0	52.3	
115 4-Chlorotoluene	126	9.578	9.578	0.000	98	376247	50.0	52.6	
116 tert-Butylbenzene	134	9.813	9.813	0.000	92	241065	50.0	51.3	
118 1,2,4-Trimethylbenzene	105	9.848	9.848	0.000	97	1253957	50.0	52.1	
119 sec-Butylbenzene	105	9.973	9.973	0.000	93	1366265	50.0	56.8	
121 1,3-Dichlorobenzene	146	10.050	10.050	0.000	98	733865	50.0	54.0	
123 4-Isopropyltoluene	119	10.079	10.079	0.000	97	1217662	50.0	56.7	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	451106	50.0	50.0	
125 1,4-Dichlorobenzene	146	10.114	10.114	0.000	96	760973	50.0	53.9	
126 1,2,3-Trimethylbenzene	105	10.156	10.156	0.000	98	1317491	50.0	52.6	
127 Benzyl chloride	91	10.211	10.211	0.000	98	1058977	50.0	45.3	
128 p-Diethylbenzene	119	10.294	10.294	0.000	92	760249	50.0	55.7	a
129 1,3-Diethylbenzene	119	10.352	10.352	0.000	92	788400	50.0	60.1	a
130 n-Butylbenzene	92	10.371	10.371	0.000	97	599140	50.0	58.5	
131 1,2-Dichlorobenzene	146	10.381	10.381	0.000	99	726705	50.0	53.6	
132 o-diethylbenzene	119	10.435	10.435	0.000	94	672645	50.0	59.2	a
133 1,2-Dibromo-3-Chloropropane	75	10.917	10.917	0.000	88	127228	50.0	46.5	
134 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	93	530204	50.0	63.3	
136 1,2,3-Trichlorobenzene	180	11.472	11.472	0.000	96	496768	50.0	59.8	
137 Hexachlorobutadiene	225	11.581	11.581	0.000	95	181095	50.0	57.0	
138 Naphthalene	128	11.635	11.635	0.000	97	1743323	50.0	52.6	
139 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	97	474043	50.0	58.5	
140 2-Methylnaphthalene	142	12.354	12.354	0.000	92	739476	50.0	47.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#3_00024	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00023	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#1_00025	Amount Added:	5.00	Units: uL	
MSV_V_ETOH_00012	Amount Added:	10.00	Units: uL	
MSV_VCYC_00007	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00085	Amount Added:	2.50	Units: uL	
MSV_HP18_ISSS_00020	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Oct-2021 12:26:33 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D

Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137 Operator ID: lcp00895

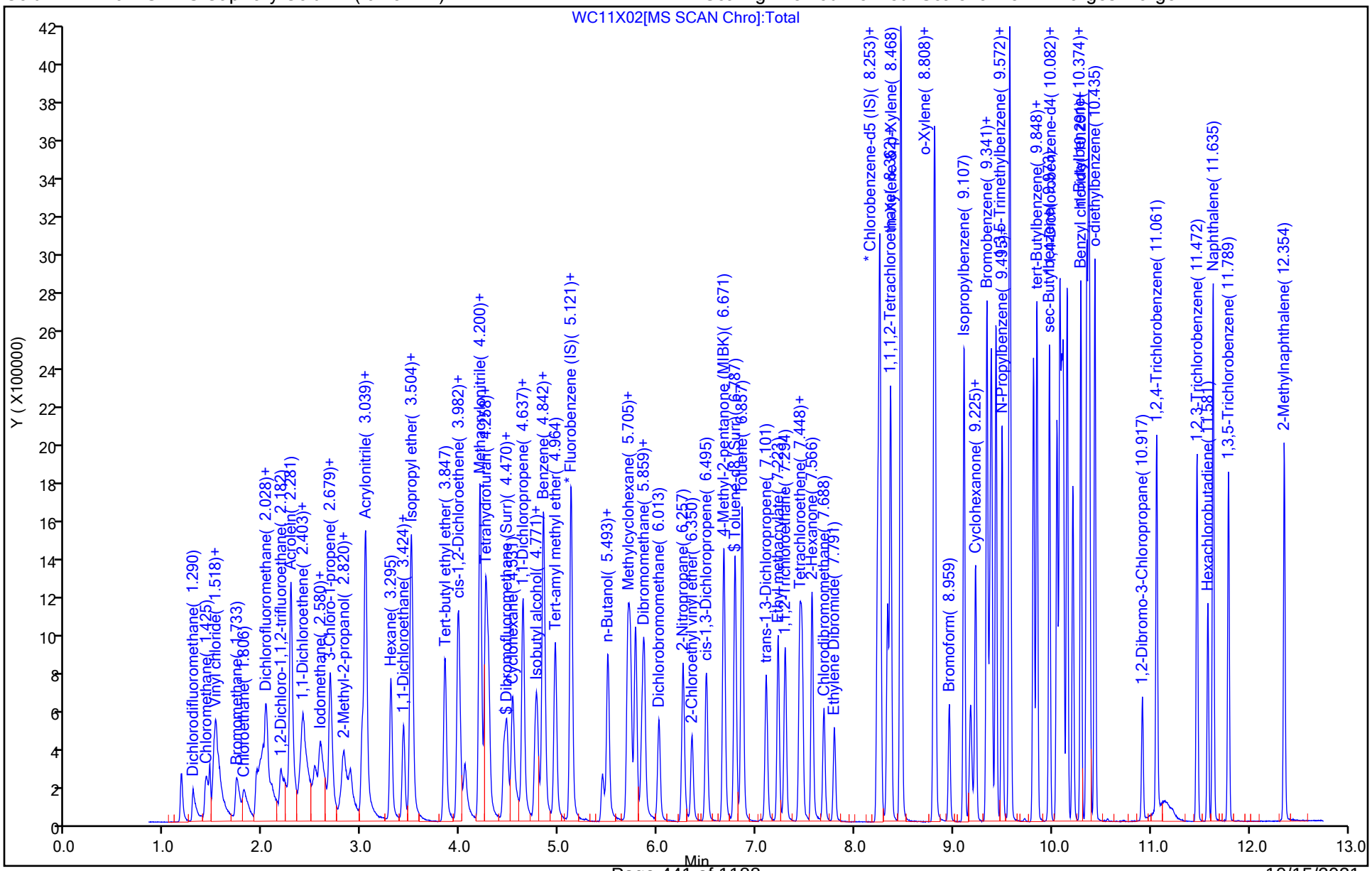
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9137 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

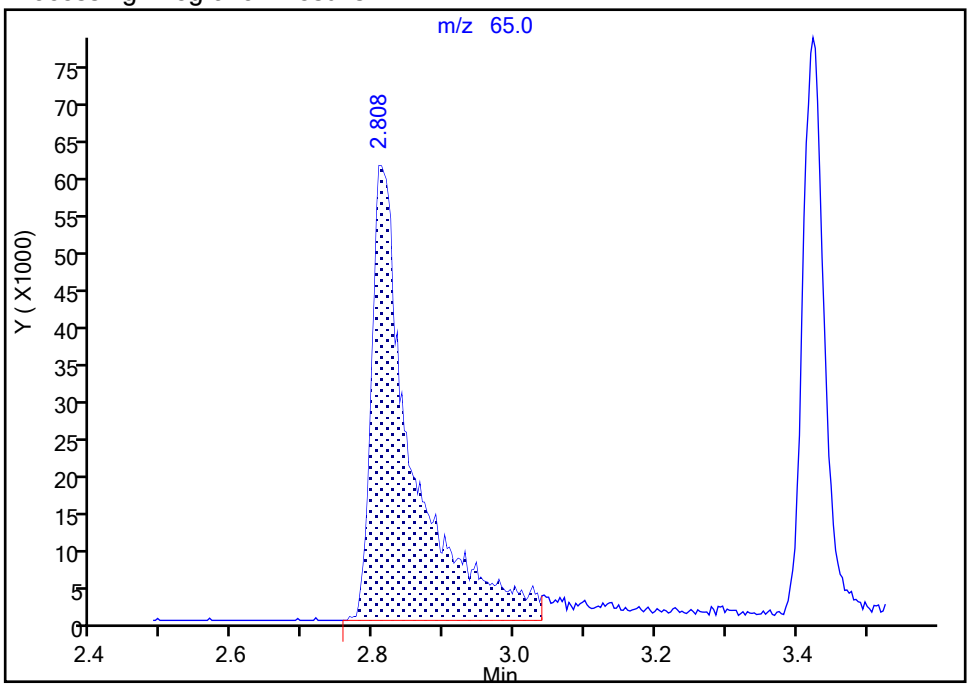
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Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 28 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

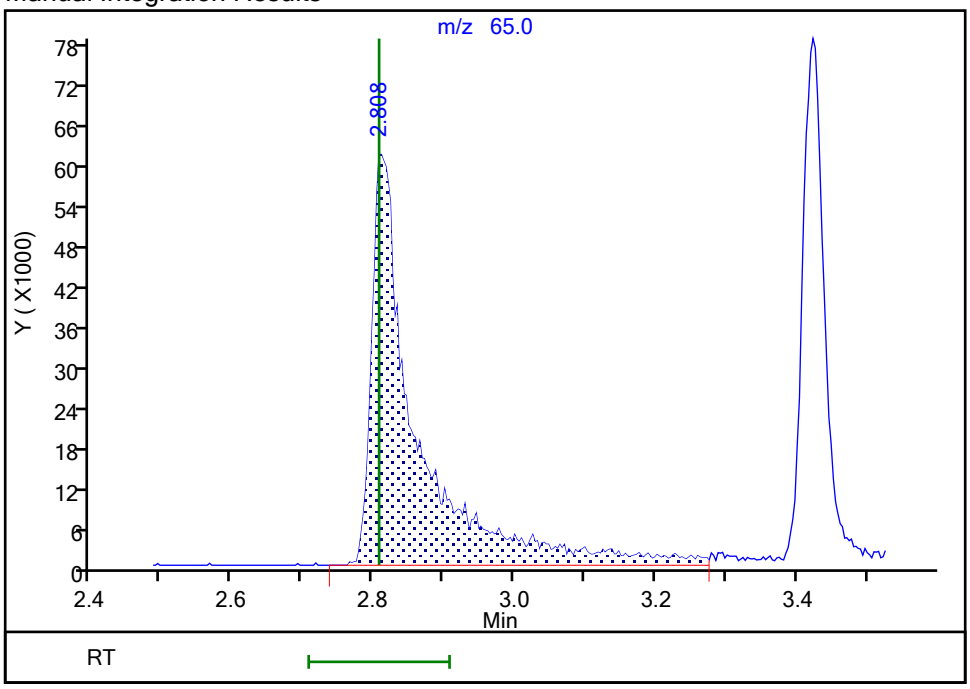
Processing Integration Results

RT: 2.81
Area: 246000
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 270747
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:46:05
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

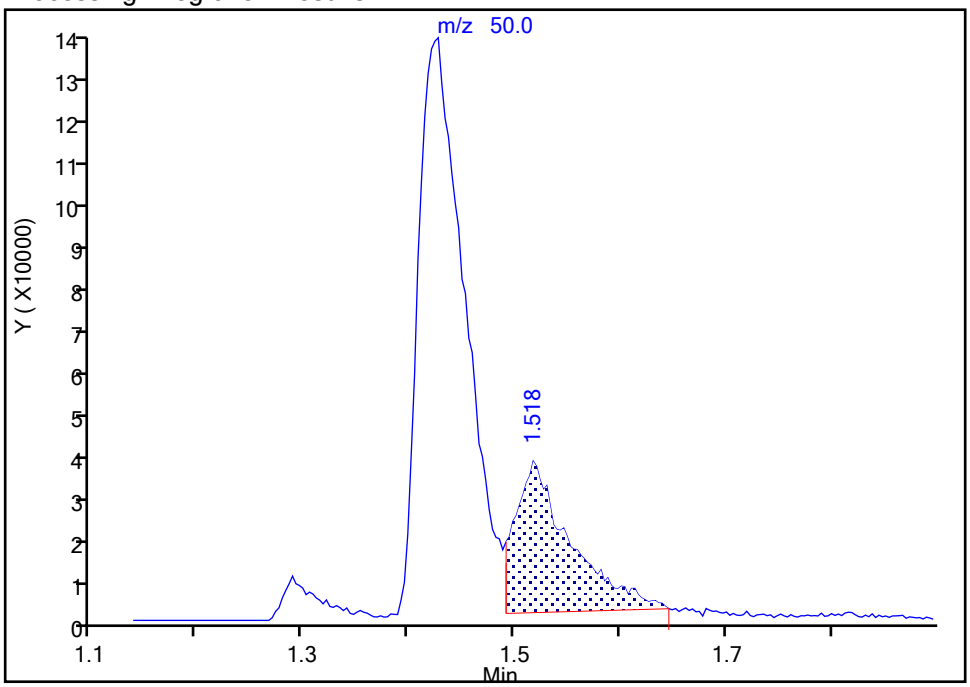
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Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Chloromethane, CAS: 74-87-3

Signal: 1

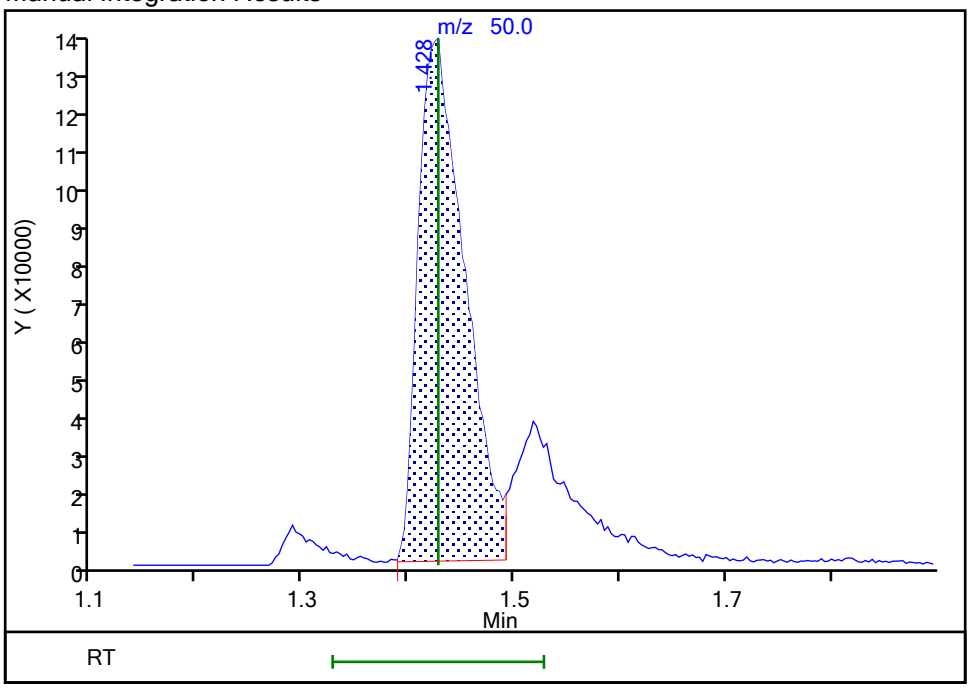
Processing Integration Results

RT: 1.52
Area: 130694
Amount: 18.156096
Amount Units: ug/l



Manual Integration Results

RT: 1.43
Area: 423035
Amount: 58.768299
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:43:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

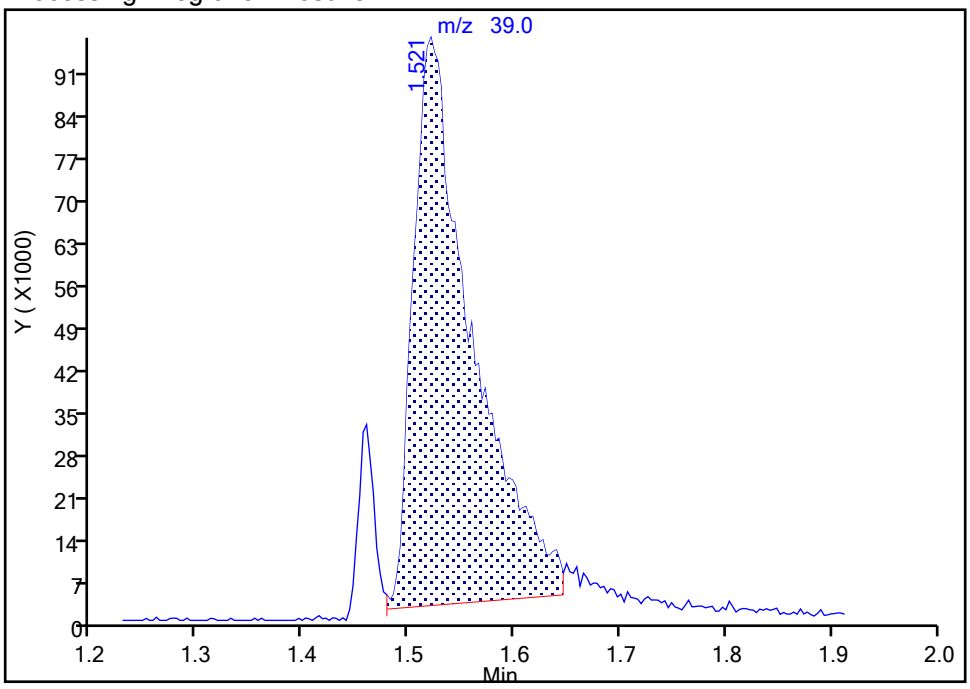
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Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

9 Butadiene, CAS: 106-99-0

Signal: 1

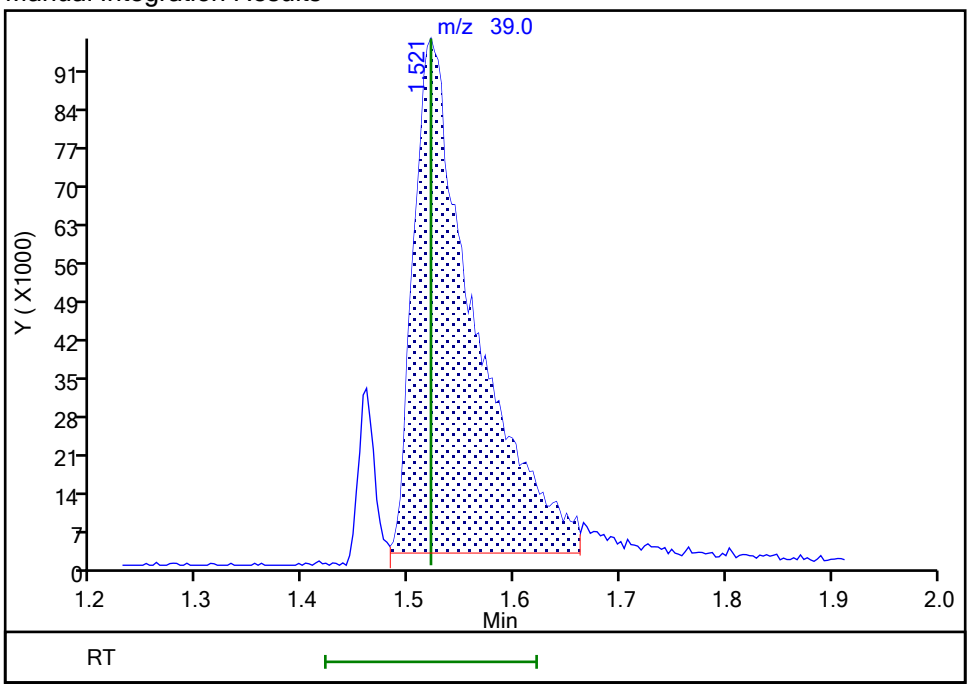
Processing Integration Results

RT: 1.52
Area: 361939
Amount: 54.320215
Amount Units: ug/l



Manual Integration Results

RT: 1.52
Area: 375294
Amount: 56.324548
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:44:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

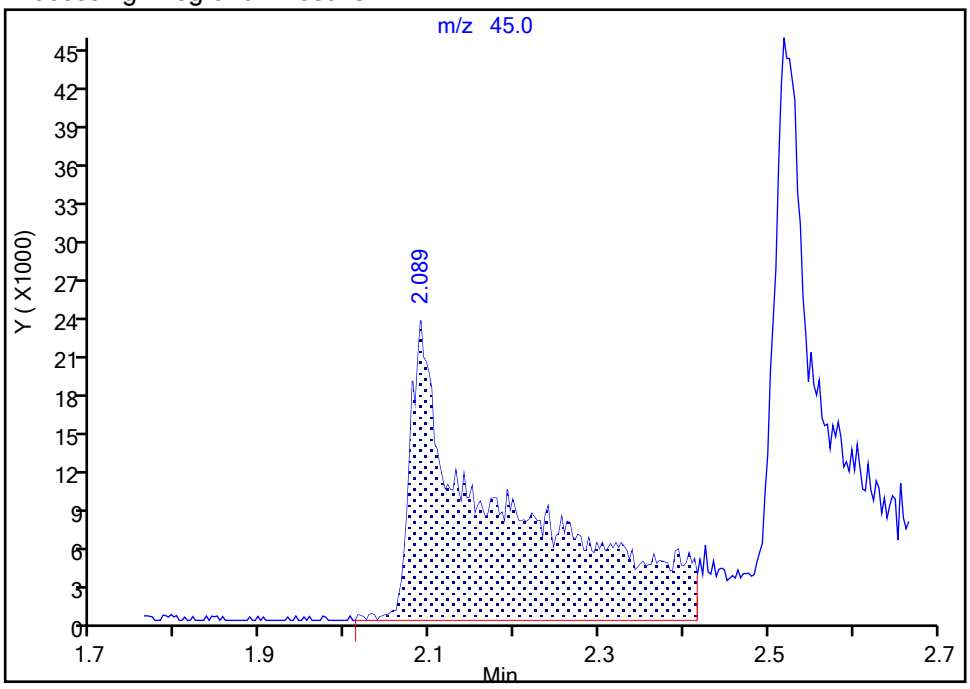
Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D				
Injection Date:	11-Oct-2021 09:21:30	Instrument ID:	9137		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Ethanol, CAS: 64-17-5

Signal: 1

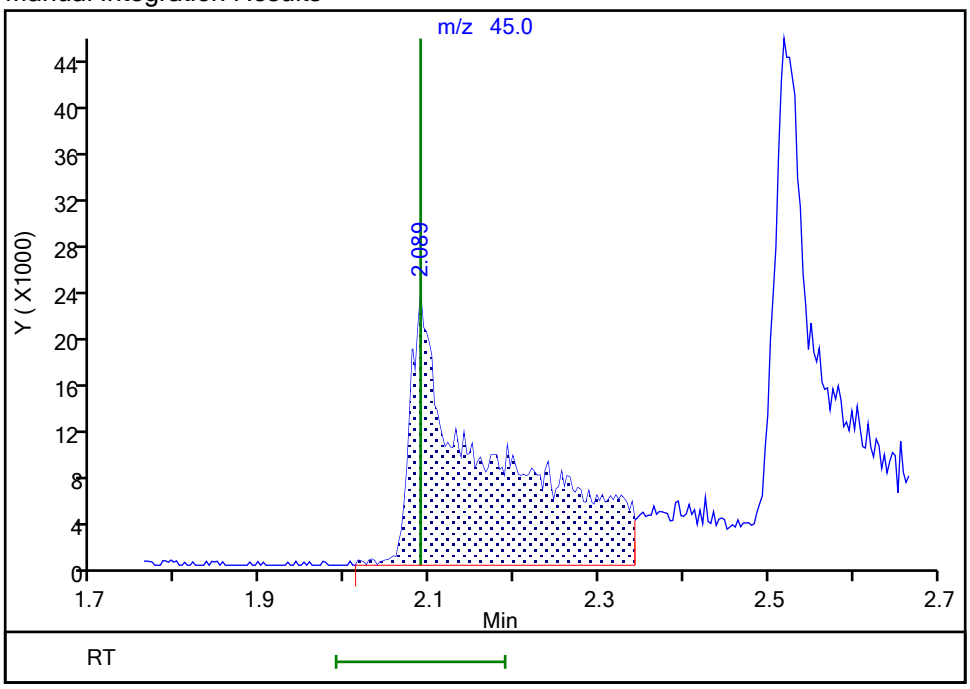
Processing Integration Results

RT: 2.09
Area: 171859
Amount: 2017.2191
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 151898
Amount: 1612.4216
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:44:28
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

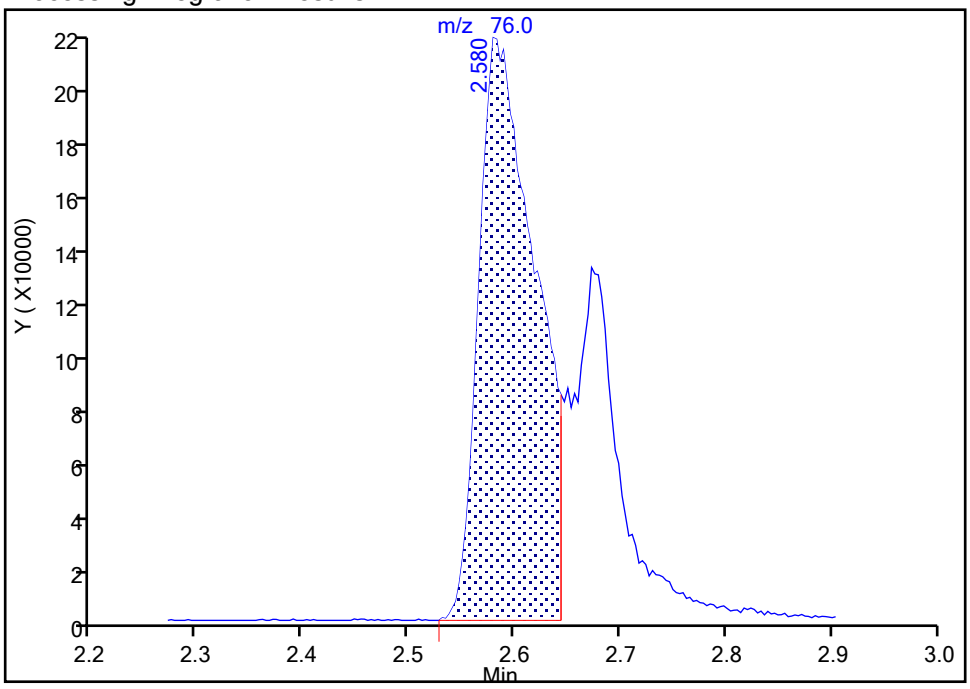
Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D
Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

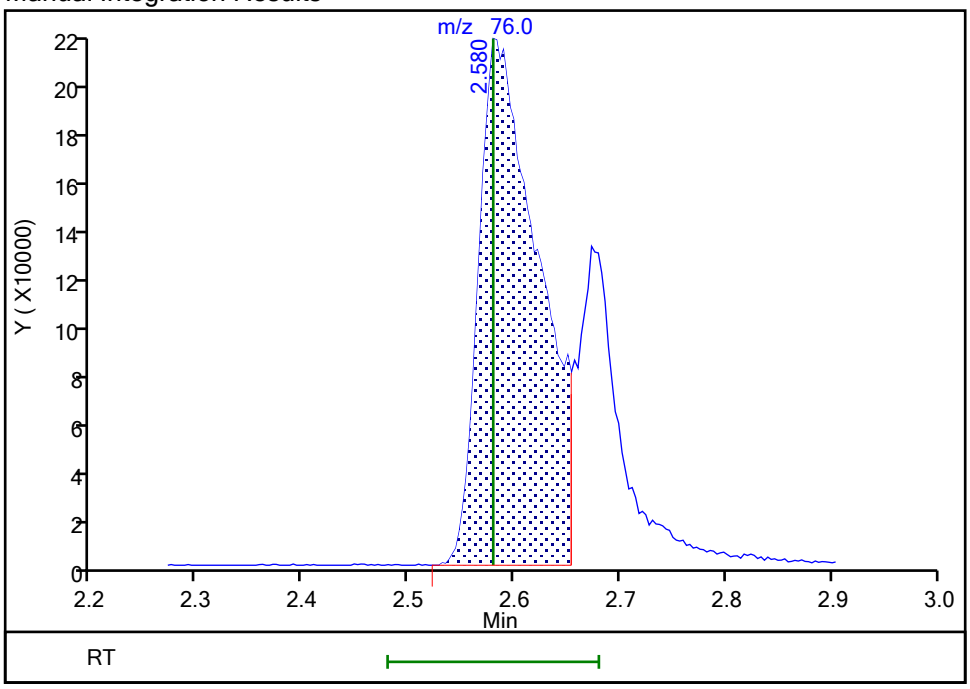
Processing Integration Results

RT: 2.58
Area: 788977
Amount: 41.549289
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 835610
Amount: 44.005087
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:45:20
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

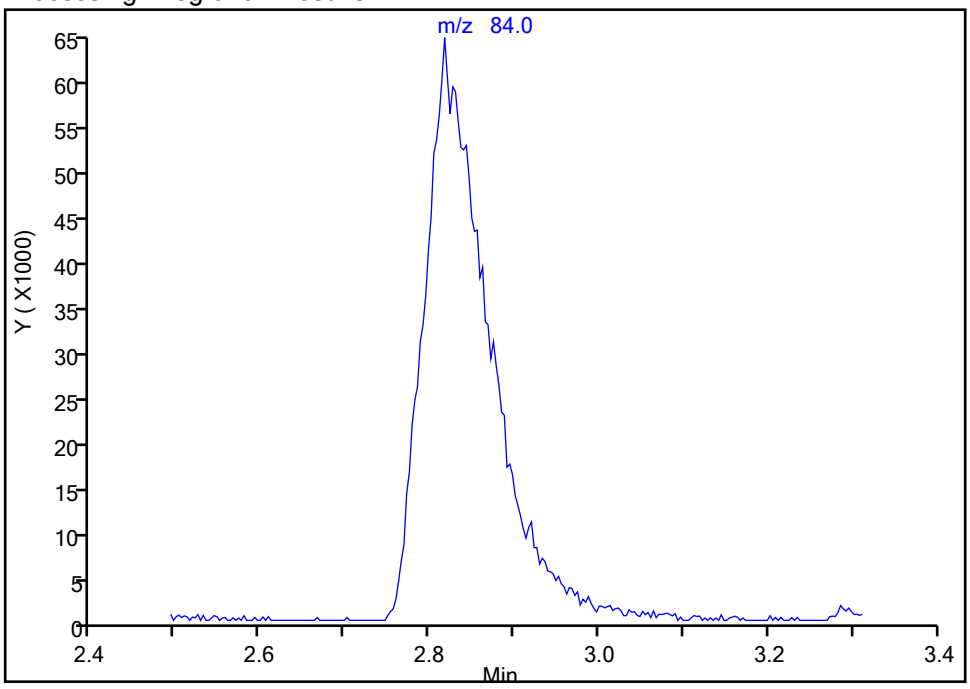
Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D
Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

29 Methylene Chloride, CAS: 75-09-2

Signal: 1

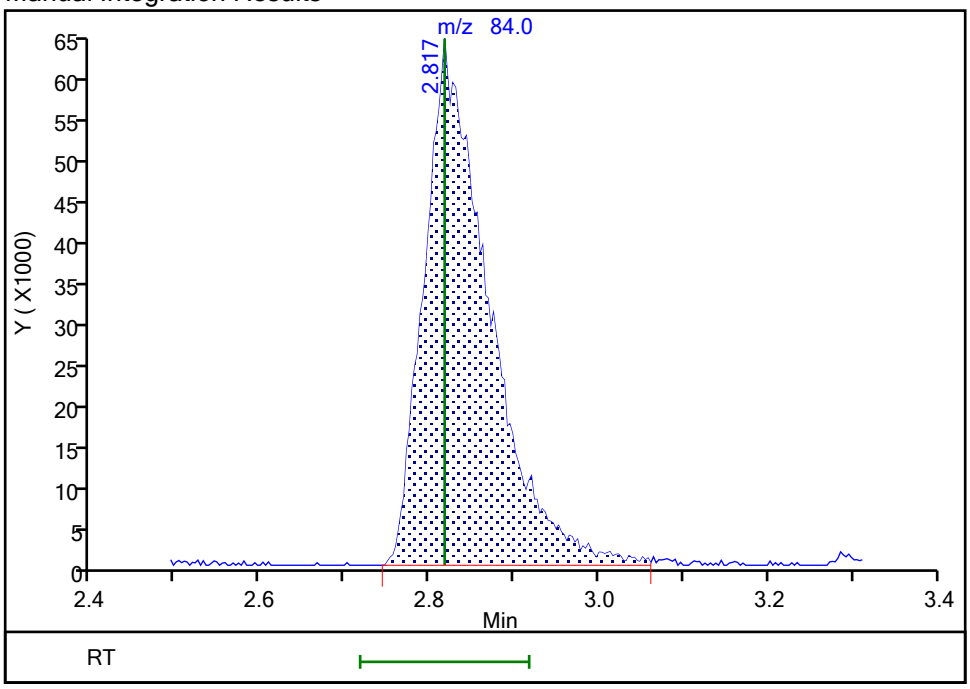
Not Detected
Expected RT: 2.82

Processing Integration Results



Manual Integration Results

RT: 2.82
Area: 339491
Amount: 51.598017
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:46:27
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

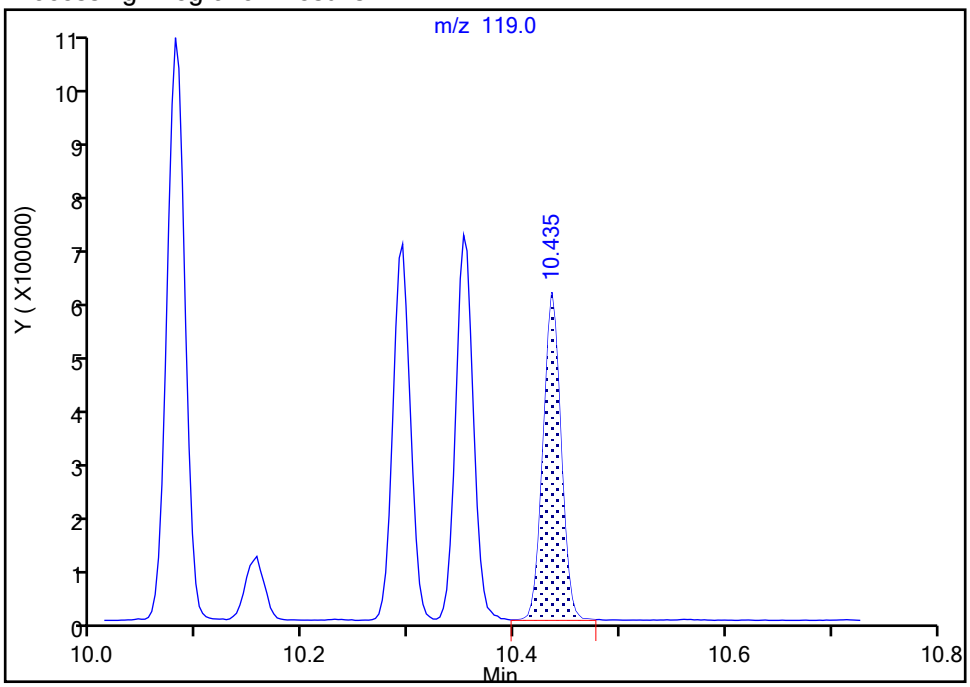
Data File:	\\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D				
Injection Date:	11-Oct-2021 09:21:30	Instrument ID:	9137		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

128 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

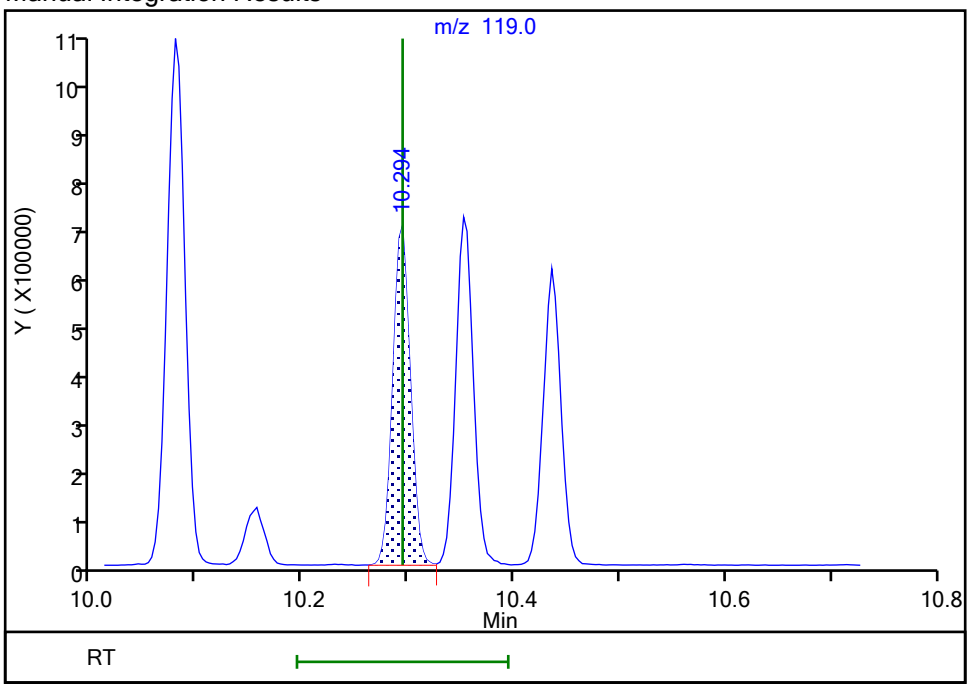
Processing Integration Results

RT: 10.44
Area: 672645
Amount: 49.290349
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 760249
Amount: 55.709830
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:52:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

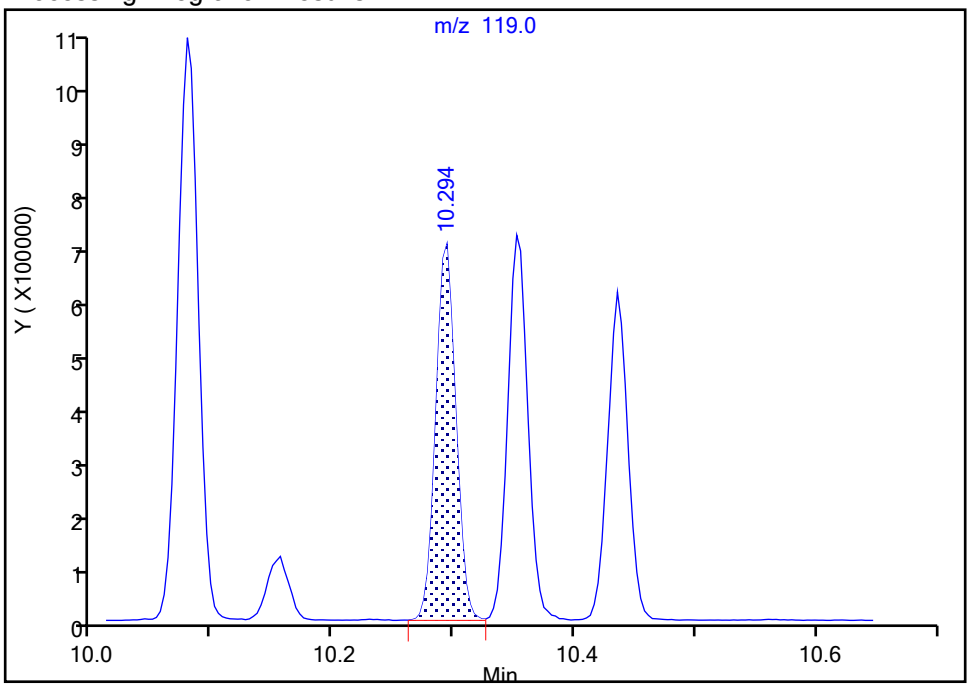
Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D
Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

129 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

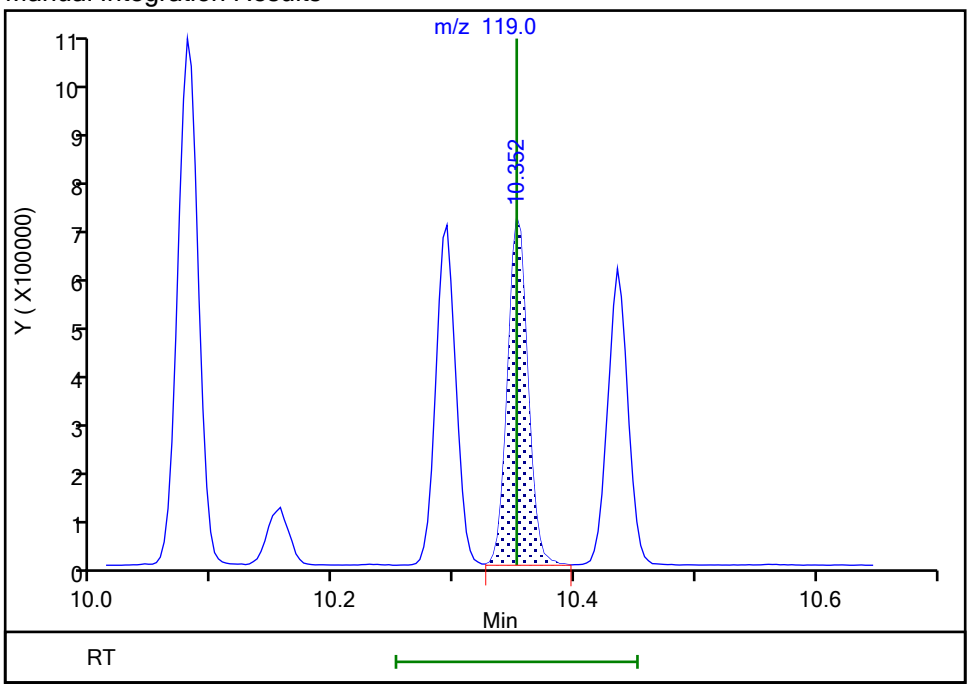
Processing Integration Results

RT: 10.29
Area: 760249
Amount: 57.958396
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 788400
Amount: 60.104518
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:52:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

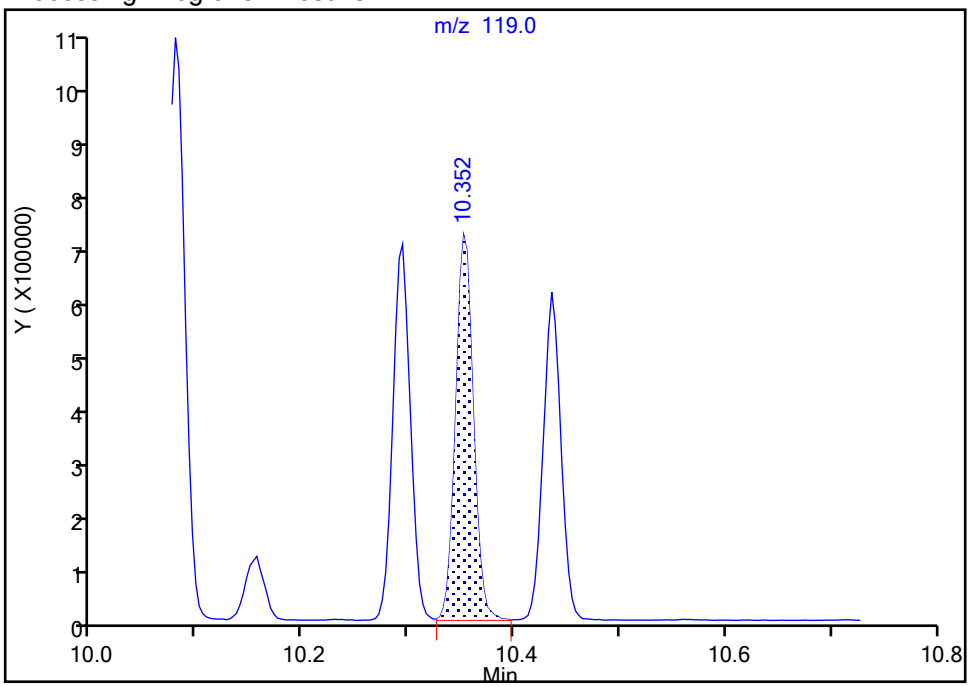
Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X02.D
Injection Date: 11-Oct-2021 09:21:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

132 o-diethylbenzene, CAS: 135-01-3

Signal: 1

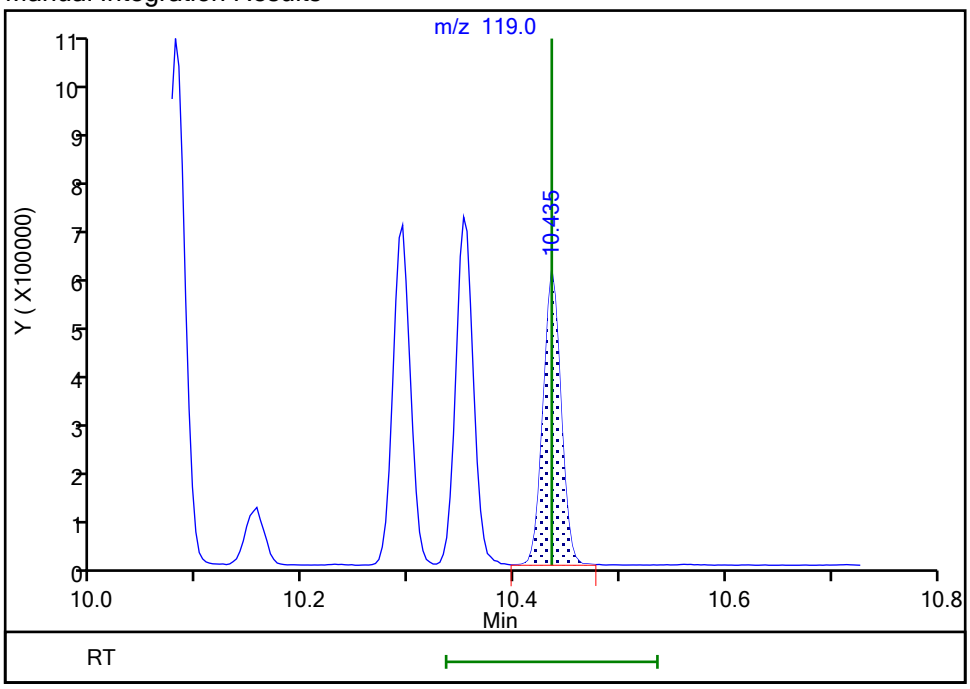
Processing Integration Results

RT: 10.35
Area: 788400
Amount: 69.398963
Amount Units: ug/l



Manual Integration Results

RT: 10.44
Area: 672645
Amount: 59.209621
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 09:50:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	25-May-2021 14:32:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0030273-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20210525-30273.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	26-May-2021 14:38:10	Calib Date:	25-May-2021 18:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1602				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 47 BFB	95	4.336	4.336	0.000	0	1949722	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

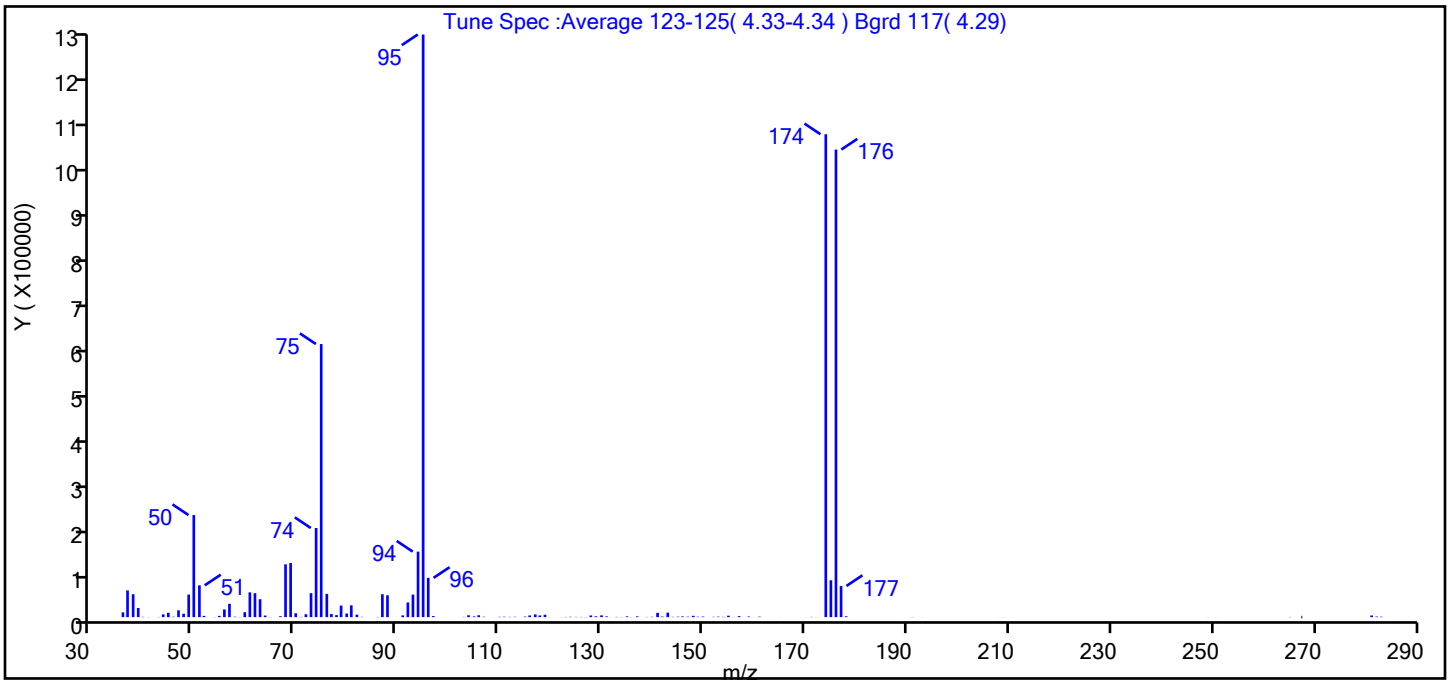
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25T01.D
Injection Date: 25-May-2021 14:32:30 Instrument ID: 9137
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_9137 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 47 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.5
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	6.3 (7.6)
176	Greater than 95% but less than 101% of m/z 174	80.2 (96.8)
177	5 to 9% of m/z 176	5.3 (6.7)

Data File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 25-May-2021 14:32:30
Spectrum: Tune Spec :Average 123-125(4.33-4.34) Bgrd 117(4.29)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 128

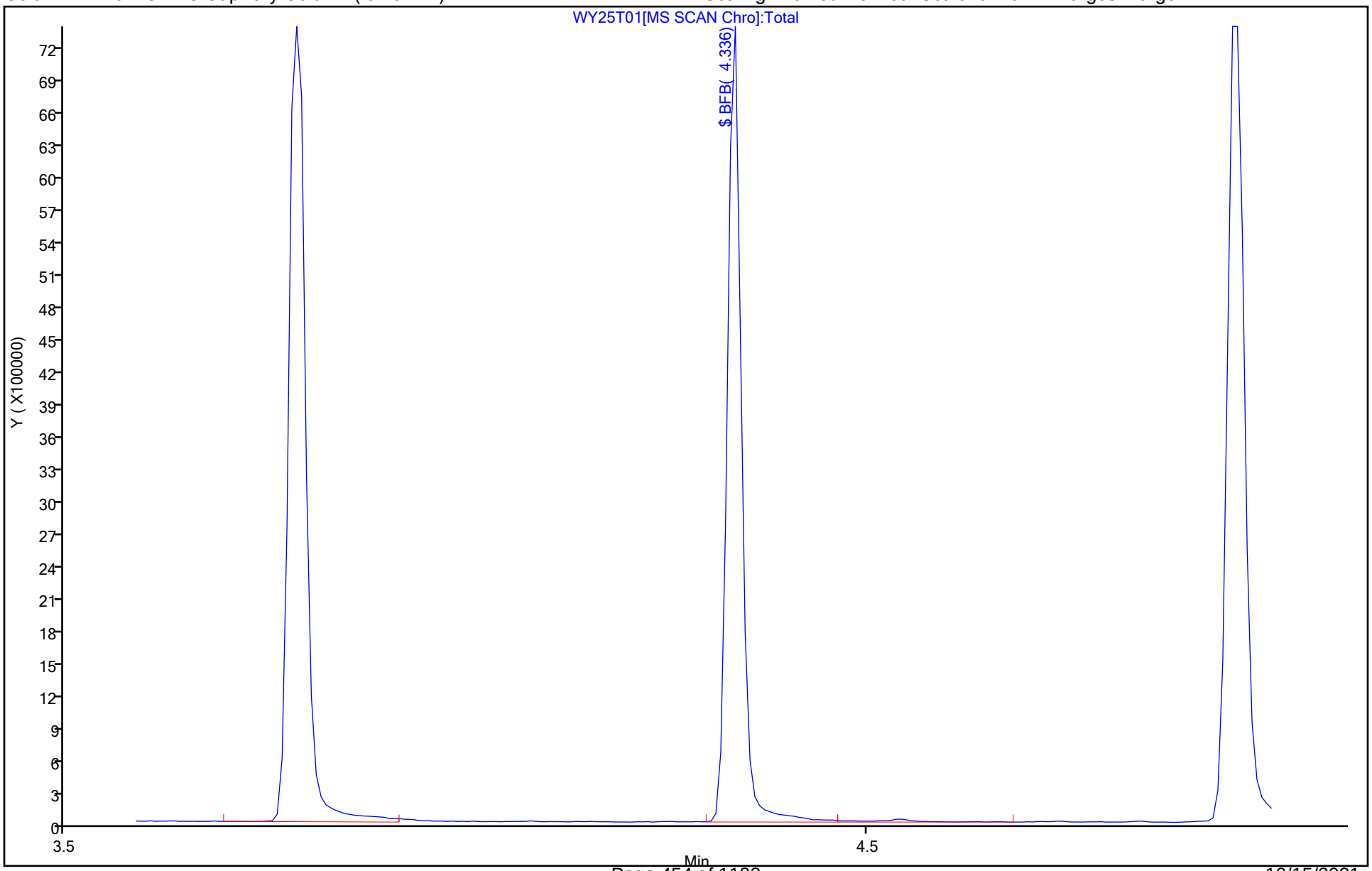
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10553	71.00	578	113.00	813	148.00	2913
37.00	59072	72.00	6396	115.00	1190	149.00	910
38.00	50728	73.00	53080	116.00	3777	150.00	1245
39.00	20192	74.00	197120	117.00	6017	152.00	662
40.00	674	75.00	604032	118.00	3738	153.00	1046
41.00	239	76.00	51384	119.00	5283	154.00	643
43.00	434	77.00	6886	120.00	221	155.00	3220
44.00	6072	78.00	4490	122.00	228	156.00	243
45.00	9627	79.00	25544	123.00	446	157.00	2223
46.00	839	80.00	7991	124.00	779	159.00	1381
47.00	15067	81.00	26152	125.00	513	160.00	95
48.00	7535	82.00	5512	126.00	436	161.00	1088
49.00	49904	83.00	620	127.00	419	165.00	92
50.00	225792	86.00	493	128.00	3773	170.00	186
51.00	70336	87.00	50736	129.00	1863	171.00	534
52.00	2771	88.00	48368	130.00	3911	172.00	230
54.00	303	91.00	3861	131.00	1624	174.00	1068032
55.00	2811	92.00	32520	132.00	129	175.00	81480
56.00	17024	93.00	49864	133.00	558	176.00	1034176
57.00	29560	94.00	144896	134.00	383	177.00	68912
58.00	941	95.00	1288704	135.00	1724	178.00	1926
59.00	369	96.00	86880	136.00	225	191.00	331
60.00	10943	97.00	2352	137.00	1737	193.00	116
61.00	54808	103.00	486	139.00	464	208.00	87
62.00	52968	104.00	4175	140.00	752	209.00	221
63.00	39680	105.00	1578	141.00	9483	249.00	211
64.00	3532	106.00	4185	142.00	1235	251.00	103
65.00	258	107.00	887	143.00	9976	265.00	428
67.00	1997	109.00	84	144.00	606	267.00	1
68.00	116816	110.00	707	145.00	999	281.00	3662
69.00	119600	111.00	911	146.00	1539	282.00	1276
70.00	8655	112.00	606	147.00	932	283.00	986

Report Date: 26-May-2021 14:38:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25T01.D				
Injection Date:	25-May-2021 14:32:30	Instrument ID:	9137	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_9137	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\9137\20211011-41199.b\WC11T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Oct-2021 08:30:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0041199-001
Misc. Info.: BFB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 12:26:29 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: papel Date: 11-Oct-2021 08:53:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 49 BFB	95	4.318	4.318	0.000	0	536687	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

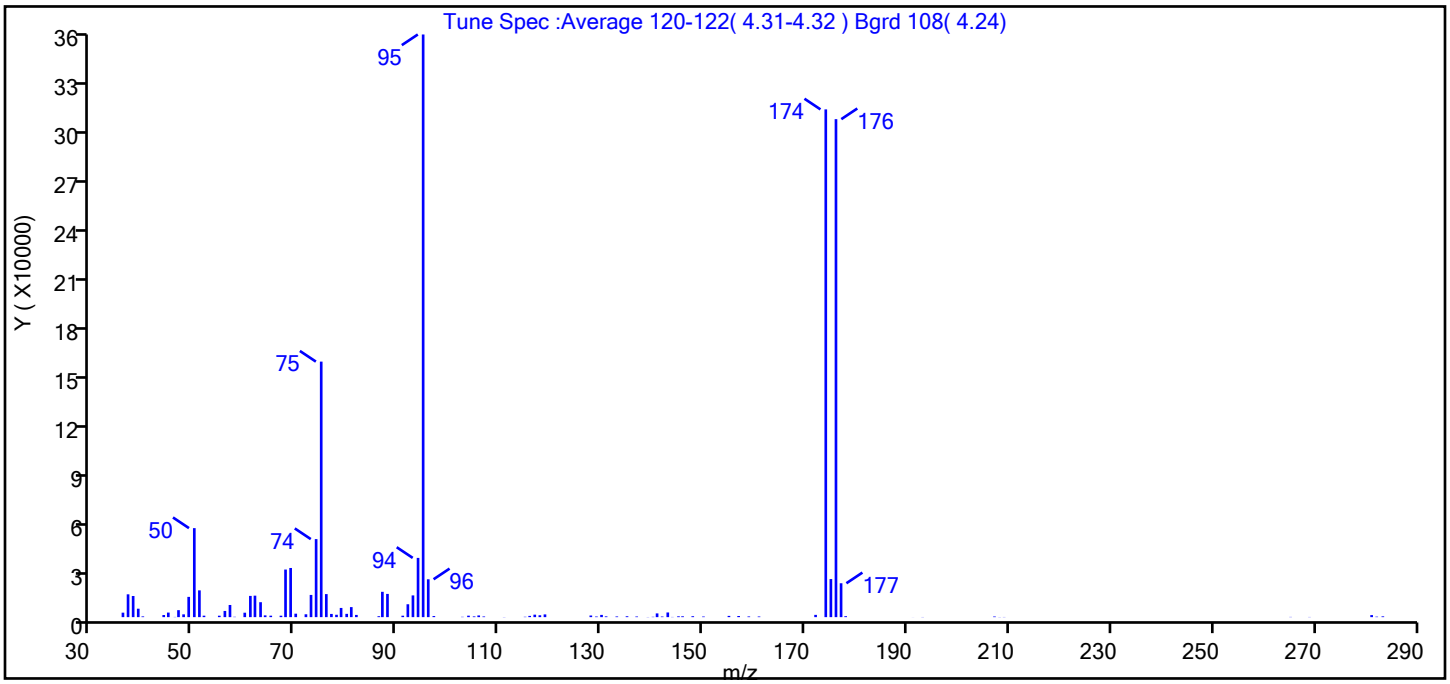
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11T01.D
Injection Date: 11-Oct-2021 08:30:30 Instrument ID: 9137
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_9137 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 49 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.3
75	30 to 60% of m/z 95	43.9
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	87.1
175	5 to 9% of m/z 174	6.5 (7.5)
176	Greater than 95% but less than 101% of m/z 174	85.5 (98.1)
177	5 to 9% of m/z 176	5.8 (6.8)

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 11-Oct-2021 08:30:30
Spectrum: Tune Spec :Average 120-122(4.31-4.32) Bgrd 108(4.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2703	68.00	28672	104.00	889	148.00	559
37.00	13750	69.00	29616	105.00	444	150.00	370
38.00	12737	70.00	2081	106.00	1016	155.00	752
39.00	5084	72.00	1728	107.00	406	157.00	689
40.00	447	73.00	13381	111.00	86	159.00	421
44.00	1283	74.00	47008	115.00	220	161.00	391
45.00	2744	75.00	153920	116.00	755	172.00	1370
46.00	122	76.00	13884	117.00	1491	174.00	305856
47.00	4204	77.00	1934	118.00	1132	175.00	22936
48.00	1683	78.00	1431	119.00	1652	176.00	299968
49.00	12206	79.00	5541	128.00	984	177.00	20416
50.00	53616	80.00	1984	129.00	375	178.00	574
51.00	16131	81.00	6045	130.00	1352	191.00	29
52.00	880	82.00	1337	131.00	458	193.00	96
55.00	865	86.00	560	133.00	420	207.00	378
56.00	3728	87.00	15256	135.00	540	208.00	83
57.00	7325	88.00	13994	137.00	392	209.00	102
58.00	210	91.00	863	139.00	90	265.00	137
60.00	2675	92.00	7766	140.00	201	269.00	113
61.00	12793	93.00	13093	141.00	2252	281.00	1231
62.00	12940	94.00	35688	142.00	368	282.00	292
63.00	9002	95.00	350976	143.00	2813	283.00	473
64.00	1069	96.00	22808	144.00	119		
65.00	880	97.00	656	145.00	490		
67.00	866	103.00	194	146.00	510		

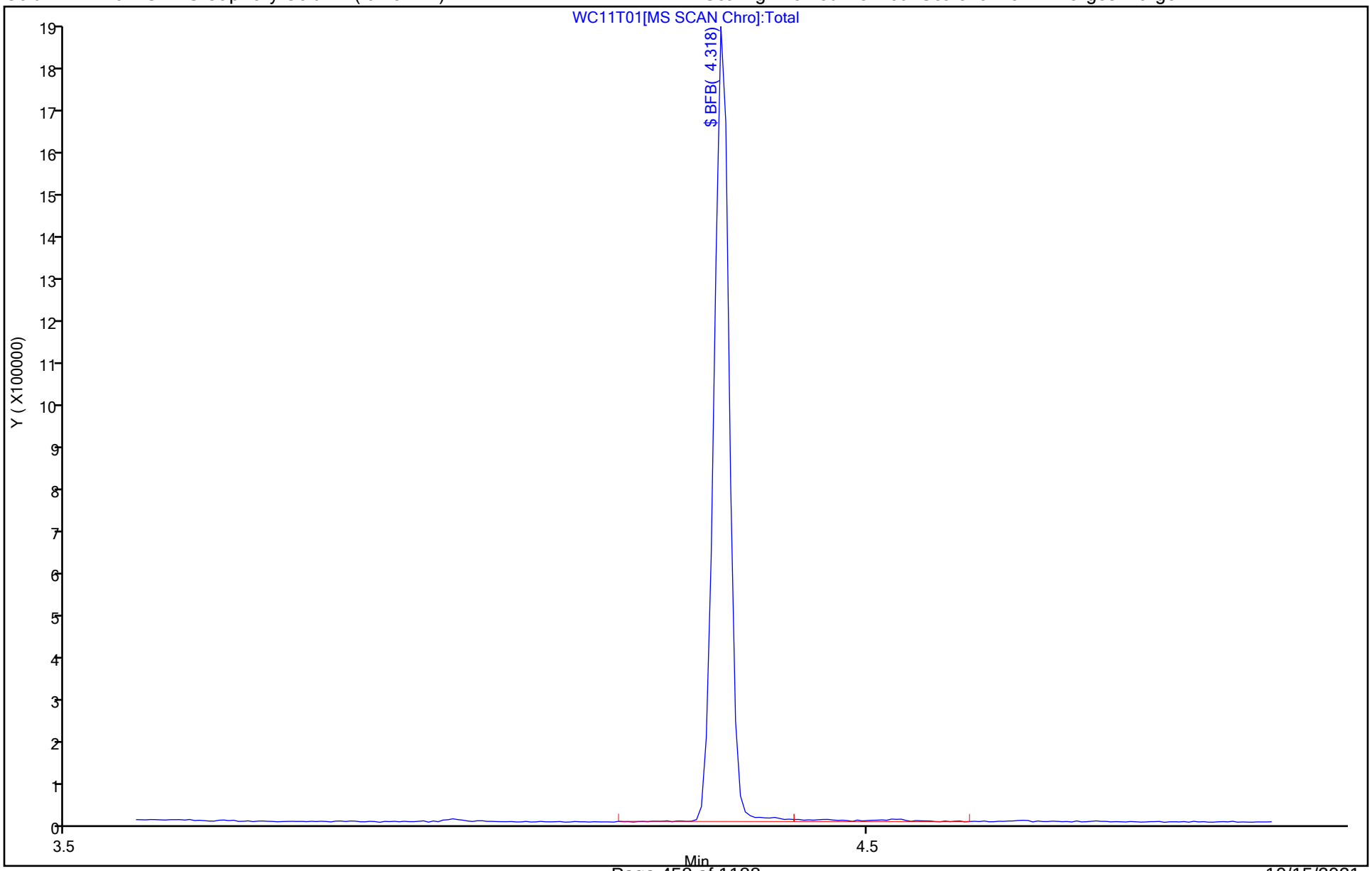
Report Date: 11-Oct-2021 12:26:29 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11T01.D

Injection Date:	11-Oct-2021 08:30:30	Instrument ID:	9137	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_9137	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-181168/6

Matrix: Water Lab File ID: WC11X05.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 10:28

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.: 181168 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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Oct-2021 10:28:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-006
Misc. Info.: MB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 12:26:30 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: papel Date: 11-Oct-2021 10:58:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)					ND	
A 2 C4-C12	1		(0.000-0.250)					ND	
3 Chlorotrifluoroethene	116		1.264					ND	
4 Dichlorodifluoromethane	85		1.290					ND	
6 2-Chloro-1,1,1-Trifluoroethane	118		1.396					ND	
7 Chloromethane	50		1.428					ND	
8 Vinyl chloride	62		1.495					ND	7
5 Chlorodifluoromethane	51	1.463	1.505	-0.042	1	110		NC	
9 Butadiene	39		1.521					ND	7
10 Bromomethane	94		1.739					ND	
11 Chloroethane	64		1.806					ND	
12 Ethyl ether	59		1.926					ND	
13 Dichlorofluoromethane	67		1.938					ND	
14 Trichlorofluoromethane	101		1.986					ND	
15 Pentane	43		2.025					ND	7
16 Ethanol	45		2.089					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		2.185					ND	
18 Acrolein	56		2.281					ND	7
20 1,1-Dichloroethene	96		2.394					ND	
21 112TCTFE	101		2.400					ND	
22 Acetone	58		2.406					ND	
23 Isopropyl alcohol	45		2.519					ND	U
19 Acetonitrile	41	2.448	2.528	-0.080	16	392		NC	
24 Iodomethane	142		2.532					ND	
25 Carbon disulfide	76		2.580					ND	7
26 3-Chloro-1-propene	41		2.679					ND	7
27 Methyl acetate	43		2.698					ND	
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	98	259977	250.0	250.0	M
29 Methylene Chloride	84		2.817					ND	
30 2-Methyl-2-propanol	59		2.885					ND	
31 Acrylonitrile	53		3.003					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.039					ND	
33 Methyl tert-butyl ether	73		3.042					ND	
34 Vinyl acetate	43		3.096					ND	
35 Hexane	57		3.295					ND	
36 1,1-Dichloroethane	63		3.424					ND	
37 Isopropyl ether	45		3.498					ND	
38 2-Chloro-1,3-butadiene	53		3.514					ND	
39 Ethyl acetate	43		3.802					ND	
40 Tert-butyl ethyl ether	59		3.841					ND	
41 cis-1,2-Dichloroethene	96		3.976					ND	
42 2,2-Dichloropropane	77		3.976					ND	
43 2-Butanone (MEK)	43		3.992					ND	
44 Propionitrile	54		4.049					ND	
45 Methacrylonitrile	67		4.197					ND	
46 Chlorobromomethane	128		4.207					ND	
47 Tetrahydrofuran	71		4.255					ND	
48 Chloroform	83		4.284					ND	
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	225503	50.0	49.3	
51 1,1,1-Trichloroethane	97		4.470					ND	
52 Isopropyl acetate	43		4.524					ND	
53 Cyclohexane	56		4.531					ND	
54 1,1-Dichloropropene	75		4.637					ND	
55 Carbon tetrachloride	117		4.637					ND	
56 Isobutyl alcohol	41		4.759					ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	78	64221	50.0	53.0	
58 Benzene	78		4.842					ND	
59 1,2-Dichloroethane	62		4.855					ND	7
60 Tert-amyl methyl ether	73		4.961					ND	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	1004487	50.0	50.0	
62 n-Heptane	43		5.124					ND	7
63 n-Butanol	56		5.442					ND	
64 Trichloroethene	95		5.497					ND	
65 n-Propyl acetate	61		5.529					ND	
66 Methylcyclohexane	83		5.699					ND	7
67 1,2-Dichloropropane	63		5.724					ND	
68 2-ethoxy-2-methyl butane	87		5.776					ND	
69 Dibromomethane	93		5.840					ND	
70 Methyl methacrylate	69		5.866					ND	
71 1,4-Dioxane	88		5.872					ND	
72 Dichlorobromomethane	83		6.013					ND	
S 73 1,2-Dichloroethene, Total	100		6.155					ND	7
74 2-Nitropropane	41		6.260					ND	
75 2-Chloroethyl vinyl ether	63		6.347					ND	
A 76 C6-C10	1	6.394	(2.952-9.836)		0	2962857		NC	
77 cis-1,3-Dichloropropene	75		6.495					ND	
78 4-Methyl-2-pentanone (MIBK)	43		6.674					ND	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	973170	50.0	48.1	
80 Toluene	92		6.857					ND	
81 trans-1,3-Dichloropropene	75		7.101					ND	
82 3,4-Dichloro-1-butene	75		7.104					ND	
A 83 C5-C12	1	7.153	(2.686-11.621)		0	3111098		NC	
84 Ethyl methacrylate	69		7.223					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 85 C6-C12	1	7.286	(2.952-11.621)		0	3111098		NC	
86 1,1,2-Trichloroethane	97		7.294				ND		
87 n-Butyl acetate	43		7.326				ND		
88 Tetrachloroethene	166		7.444				ND		
89 1,3-Dichloropropane	76		7.467				ND		
90 2-Hexanone	43		7.566				ND		
91 Chlorodibromomethane	129		7.688				ND		
92 Ethylene Dibromide	107		7.791				ND		
93 t-Amyl alcohol	73		7.842				ND		
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	84	773138	50.0	50.0	
95 1-Chlorohexane	91		8.253				ND		7
96 Chlorobenzene	112		8.256				ND		
97 1,1,1,2-Tetrachloroethane	131		8.333				ND		
98 Ethylbenzene	91		8.362				ND		7
99 m-Xylene & p-Xylene	106		8.468				ND		7
100 o-Xylene	106		8.805				ND		
101 Styrene	104		8.815				ND		
102 cis-1,4-Dichloro-2-butene	88		8.833				ND		
103 Bromoform	173		8.959				ND		
104 Isopropylbenzene	105		9.110				ND		
105 Cyclohexanone	55		9.174				ND		
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	92	335366	50.0	42.7	
107 2,3,4-Trichlorobutene	109		9.296				ND		
108 Bromobenzene	156		9.338				ND		
109 1,1,2,2-Tetrachloroethane	83		9.341				ND		
110 1,2,3-Trichloropropane	110		9.373				ND		
111 trans-1,4-Dichloro-2-butene	53		9.386				ND		
112 N-Propylbenzene	91		9.431				ND		
113 2-Chlorotoluene	126		9.492				ND		
114 1,3,5-Trimethylbenzene	105		9.569				ND		
115 4-Chlorotoluene	126		9.578				ND		
116 tert-Butylbenzene	134		9.813				ND		
117 Pentachloroethane	167		9.822				ND		
118 1,2,4-Trimethylbenzene	105		9.848				ND		7
119 sec-Butylbenzene	105		9.973				ND		
121 1,3-Dichlorobenzene	146		10.050				ND		
S 122 1,3-Dichloropropene, Total	100		10.060				ND		7
123 4-Isopropyltoluene	119		10.079				ND		7
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	398939	50.0	50.0	
125 1,4-Dichlorobenzene	146		10.114				ND		7
126 1,2,3-Trimethylbenzene	105		10.156				ND		7
127 Benzyl chloride	91		10.211				ND		7
128 p-Diethylbenzene	119		10.294				ND		7
129 1,3-Diethylbenzene	119		10.352				ND		7
130 n-Butylbenzene	92		10.371				ND		7
131 1,2-Dichlorobenzene	146		10.381				ND		
132 o-diethylbenzene	119		10.435				ND		7
133 1,2-Dibromo-3-Chloropropane	75		10.917				ND		
134 1,2,4-Trichlorobenzene	180		11.061				ND		
S 135 Xylenes, Total	106		11.245				ND		7
136 1,2,3-Trichlorobenzene	180		11.472				ND		
137 Hexachlorobutadiene	225		11.581				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Naphthalene	128		11.635					ND	7
139 1,3,5-Trichlorobenzene	180		11.789					ND	7
140 2-Methylnaphthalene	142		12.354					ND	7
141 Hexachloroethane	201		13.560					ND	
142 1,3-Dichlorobutene-2(total)	1		0.000					ND	
143 Propanol TIC	1		0.000					ND	
144 Acetonitrile TIC	1		0.000					ND	
145 2-Chloroethanol TIC	1		0.000					ND	
147 1,3-Dichlorobutene-2(total) TIC	1		0.000					ND	
148 Nitrobenzene TIC	1		0.000					ND	
149 Bromoethane TIC	1		0.000					ND	
150 2-Pentanone (TIC)	1		0.000					ND	
151 Malononitrile (TIC)	1		0.000					ND	
152 Epibromohydrin TIC	1		0.000					ND	
153 2-Picoline (TIC)	1		0.000					ND	
154 Chloroacetaldehyde TIC	1		0.000					ND	
155 Vinyl acetate (TIC)	1		0.000					ND	
156 Allyl Alcohol TIC	1		0.000					ND	
157 Vinyl bromide TIC	1		0.000					ND	
158 1-Bromopropane TIC	1		0.000					ND	
159 Epichlorohydrin TIC	1		0.000					ND	
170 1-Bromo-2-chloroethane TIC	1		0.000					ND	
179 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
162 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
163 Ethylene oxide TIC	1		0.000					ND	
164 Paraldehyde TIC	1		0.000					ND	
165 Bromoacetone (TIC)	1		0.000					ND	
166 2,3-Dibromopropene TIC	1		0.000					ND	
167 Methanol TIC	1		0.000					ND	
168 Chloral hydrate (TIC)	1		0.000					ND	
169 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
180 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
171 Pentachloroethane TIC	1		0.000					ND	
172 Monochloroacetic acid TIC	1		0.000					ND	
173 Ethanol TIC	1		0.000					ND	
174 Propargyl alcohol TIC	1		0.000					ND	
175 beta-Propiolactone TIC	1		0.000					ND	
176 Propene oxide	1		0.000					ND	
177 1-Chlorobutane	1		0.000					ND	
178 1,4-Divinylbenzene	1		0.000					ND	
160 Pentafluorobenzene TIC	1		0.000					ND	
161 2-Bromo-3-chloropropene TIC	1		0.000					ND	
181 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
201 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
S 183 divinyl benzene	1		0.000					ND	7
184 1-Bromo-2-chloroethane	1		0.000					ND	
S 185 Total Diethylbenzene	1		0.000					ND	7
186 3-chloro-1-Butene	1		0.000					ND	
187 Methyl acrylate	1		0.000					ND	
188 tert-Butyl Formate	1		0.000					ND	
189 1,3-Divinylbenzene	1		0.000					ND	
190 Ethyl bromide	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
191 Chloroacetonitrile	1		0.000					ND	
192 Diethoxymethane	1		0.000					ND	
193 Methylal	1		0.000					ND	
197 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
198 Ethyl acrylate	55		0.000					ND	
199 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
215 Ethyl ether TIC	1		0.000					ND	
224 Diethoxymethane TIC	1		0.000					ND	
202 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
203 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
204 n-Propylamine (TIC)	1		0.000					ND	
205 2-Bromoethanol TIC	1		0.000					ND	
206 o-toluidine TIC	1		0.000					ND	
S 212 Total BTEX	1		0.000					ND	
213 Propene oxide TIC	1		0.000					ND	
214 2-Methylbutane TIC	1		0.000					ND	
182 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
216 Propane TIC	1		0.000					ND	
217 Propionaldehyde TIC	1		0.000					ND	
218 1-Chlorobutane TIC	1		0.000					ND	
219 Isooctane TIC	1		0.000					ND	
220 Ethyl Acetate TIC	1		0.000					ND	
221 Chlorodifluoromethane TIC	1		0.000					ND	
222 n-butyl Acetate TIC	1		0.000					ND	
223 Tetranitromethane TIC	1		0.000					ND	
200 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
225 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_HP18_ISSS_00020 Amount Added: 1.00 Units: uL Run Reagent

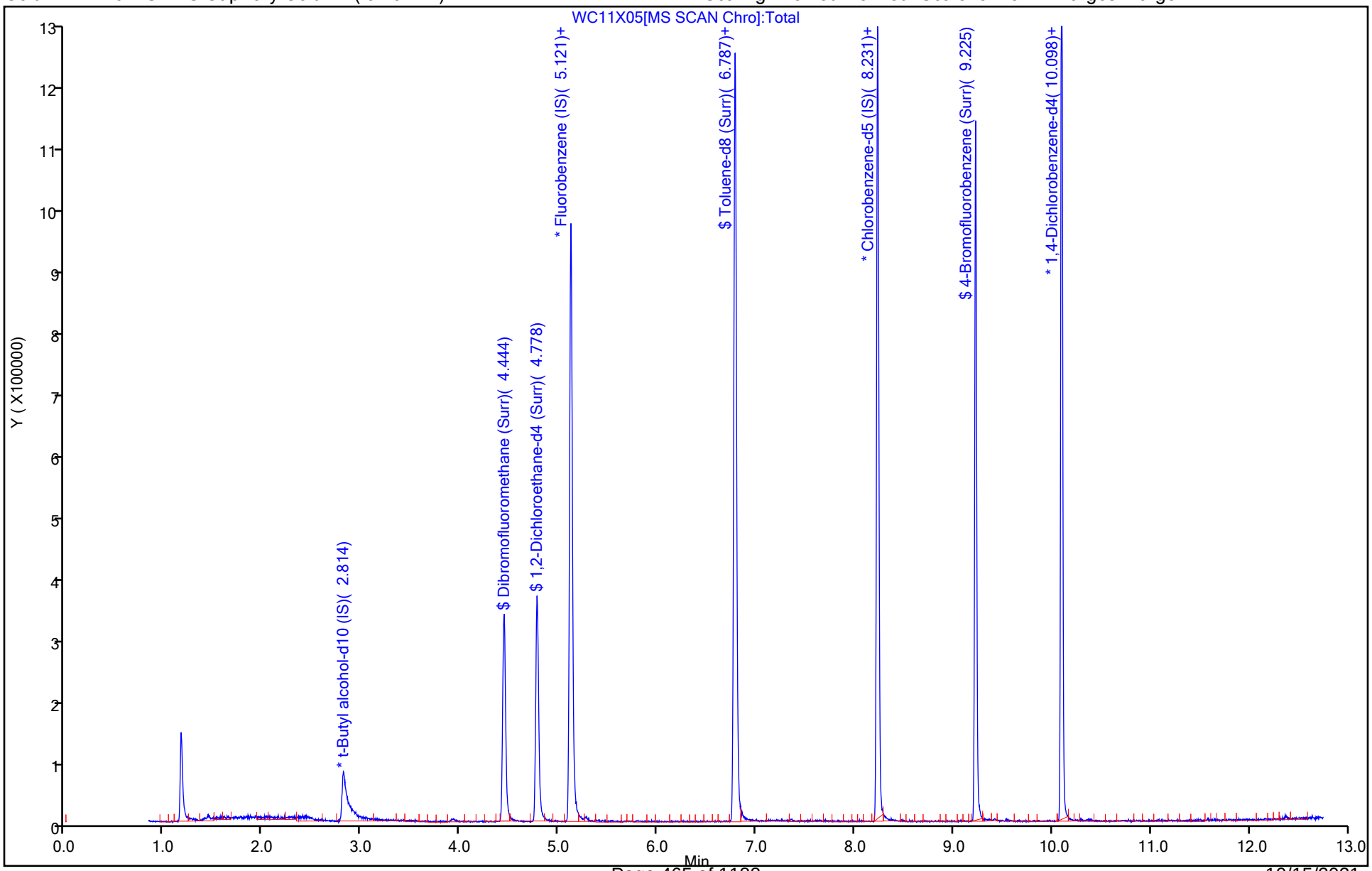
Report Date: 11-Oct-2021 12:26:41 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X05.D

Injection Date:	11-Oct-2021 10:28:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_9137	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

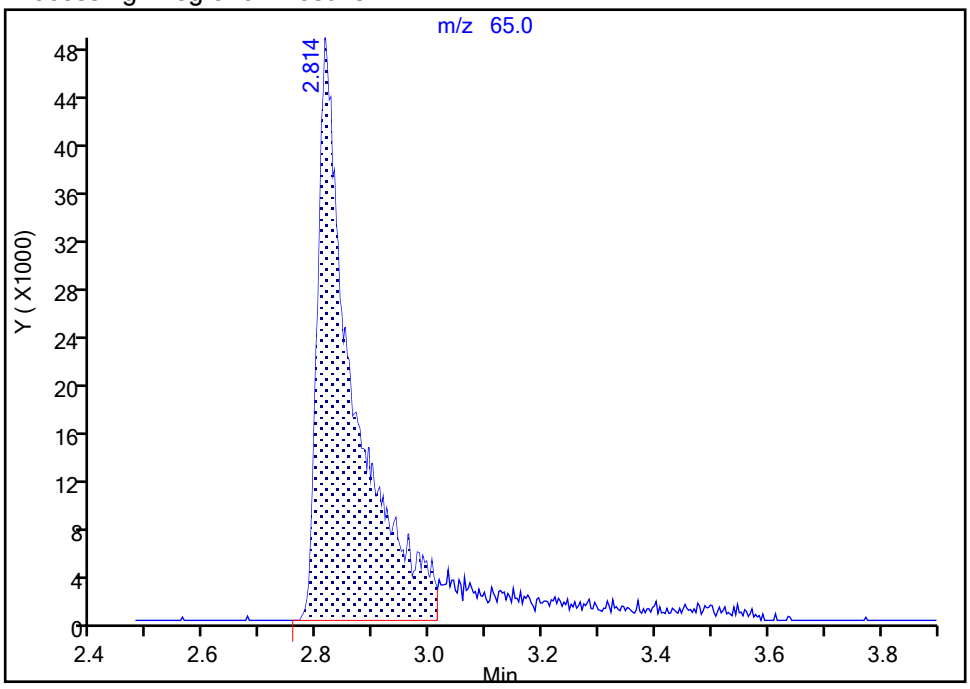
Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X05.D
Injection Date: 11-Oct-2021 10:28:30 Instrument ID: 9137
Lims ID: MB
Client ID:
Operator ID: lcp00895 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 28 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

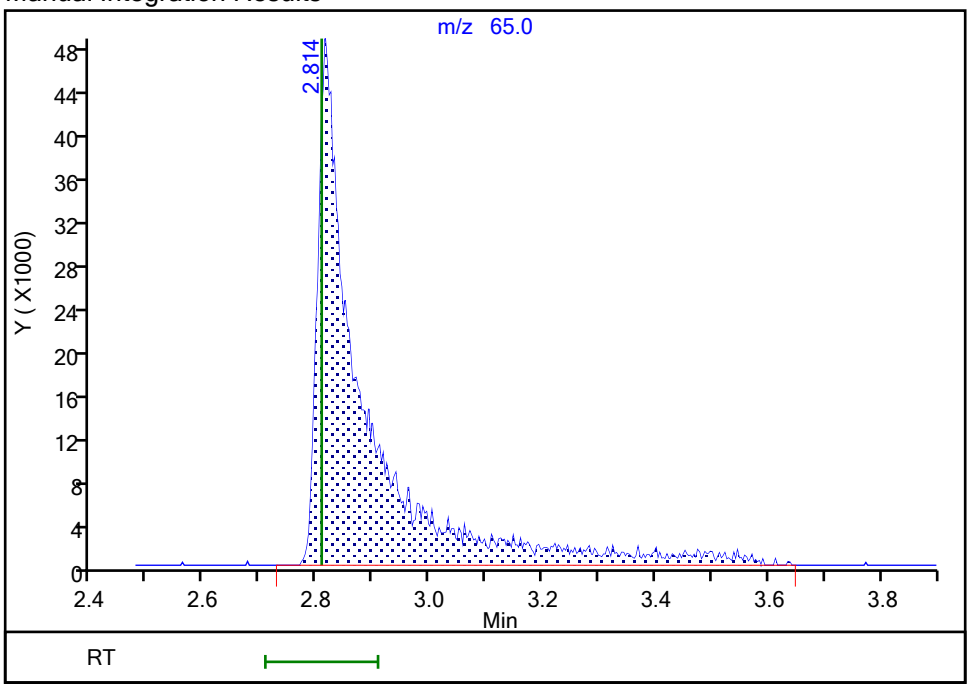
Processing Integration Results

RT: 2.81
Area: 211354
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 259977
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 10:58:22
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-181168/4

Matrix: Water Lab File ID: WC11X03.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 09:43

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.: 181168 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	20.5		1.0	0.40
108-88-3	Toluene	20.6		1.0	0.20
1330-20-7	Xylenes, Total	62.3		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	17.6		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)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Oct-2021 09:43:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-004
Misc. Info.: LCS
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 12:26:30 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: papel Date: 11-Oct-2021 10:09:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	1.287	1.290	-0.003	99	128212	20.0	27.1	
7 Chloromethane	50	1.425	1.428	-0.003	99	167561	20.0	23.4	
8 Vinyl chloride	62	1.492	1.495	-0.003	98	166452	20.0	23.7	
9 Butadiene	39	1.508	1.521	-0.013	88	156613	20.0	23.6	
10 Bromomethane	94	1.736	1.739	-0.003	89	96684	20.0	20.6	
11 Chloroethane	64	1.807	1.806	0.001	99	99312	20.0	22.8	
13 Dichlorofluoromethane	67	1.935	1.938	-0.003	96	215588	20.0	22.9	
14 Trichlorofluoromethane	101	1.977	1.986	-0.009	99	150827	20.0	21.4	
15 Pentane	43	2.025	2.025	0.000	93	127584	20.0	14.1	
16 Ethanol	45	2.092	2.089	0.003	97	87253	1000.0	926.3	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.179	2.185	-0.006	90	143268	20.0	23.0	
18 Acrolein	56	2.281	2.281	0.000	99	291093	150.4	147.2	
20 1,1-Dichloroethene	96	2.397	2.394	0.003	98	99353	20.0	18.6	
21 112TCTFE	101	2.410	2.400	0.010	52	86429	20.0	18.7	M
22 Acetone	58	2.407	2.406	0.001	100	246376	250.0	306.4	
23 Isopropyl alcohol	45	2.525	2.519	0.006	99	77686	150.0	146.0	
24 Iodomethane	142	2.529	2.532	-0.003	96	157656	20.0	16.1	
25 Carbon disulfide	76	2.586	2.580	0.006	99	322181	20.0	17.0	
26 3-Chloro-1-propene	41	2.676	2.679	-0.003	95	175228	20.0	19.0	
27 Methyl acetate	43	2.695	2.698	-0.003	98	143153	20.0	21.7	
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	99	266153	250.0	250.0	M
29 Methylene Chloride	84	2.817	2.817	0.000	80	135369	20.0	20.7	a
30 2-Methyl-2-propanol	59	2.891	2.885	0.006	100	221805	200.0	185.8	
31 Acrylonitrile	53	3.007	3.003	0.004	99	364232	100.0	114.8	
32 trans-1,2-Dichloroethene	96	3.036	3.039	-0.003	97	114431	20.0	19.7	
33 Methyl tert-butyl ether	73	3.045	3.042	0.003	95	356187	20.0	17.6	
35 Hexane	57	3.295	3.295	0.000	89	145403	20.0	22.3	
36 1,1-Dichloroethane	63	3.421	3.424	-0.003	96	200577	20.0	19.3	
37 Isopropyl ether	45	3.494	3.498	-0.004	95	377839	20.0	18.8	
38 2-Chloro-1,3-butadiene	53	3.514	3.514	0.000	89	161329	20.0	17.0	
40 Tert-butyl ethyl ether	59	3.844	3.841	0.003	97	321230	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
41 cis-1,2-Dichloroethene	96	3.976	3.976	0.000	80	129115	20.0	20.5	
42 2,2-Dichloropropane	77	3.982	3.976	0.006	44	100144	20.0	22.8	
43 2-Butanone (MEK)	43	3.992	3.992	0.000	99	1256104	250.0	267.1	
44 Propionitrile	54	4.046	4.049	-0.003	100	222835	150.0	163.0	
45 Methacrylonitrile	67	4.197	4.197	0.000	90	600557	150.0	155.0	
46 Chlorobromomethane	128	4.204	4.207	-0.003	44	64421	20.0	21.5	
47 Tetrahydrofuran	71	4.258	4.255	0.003	92	140356	100.0	97.7	
48 Chloroform	83	4.287	4.284	0.003	93	193344	20.0	19.1	
$ 50 Dibromofluoromethane (Surr)	113	4.444	4.441	0.003	94	230867	50.0	48.4	
51 1,1,1-Trichloroethane	97	4.473	4.470	0.003	99	148143	20.0	17.7	
53 Cyclohexane	56	4.534	4.531	0.003	90	161347	20.0	16.8	
54 1,1-Dichloropropene	75	4.634	4.637	-0.003	96	152890	20.0	19.7	
55 Carbon tetrachloride	117	4.637	4.637	0.000	95	114353	20.0	16.8	
56 Isobutyl alcohol	41	4.762	4.759	0.003	94	198164	500.0	499.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	96	63551	50.0	50.3	
58 Benzene	78	4.839	4.842	-0.003	96	514532	20.0	21.1	
59 1,2-Dichloroethane	62	4.855	4.855	0.000	94	150656	20.0	17.9	
60 Tert-amyl methyl ether	73	4.964	4.961	0.003	99	337301	20.0	17.3	
* 61 Fluorobenzene (IS)	96	5.118	5.121	-0.003	98	1047246	50.0	50.0	
62 n-Heptane	43	5.125	5.124	0.001	45	124549	20.0	20.9	
63 n-Butanol	56	5.442	5.442	0.000	88	339190	1000.0	996.3	
64 Trichloroethene	95	5.497	5.497	0.000	98	120609	20.0	19.6	
66 Methylcyclohexane	83	5.702	5.699	0.003	93	172221	20.0	22.1	
67 1,2-Dichloropropane	63	5.725	5.724	0.001	97	137428	20.0	20.6	
68 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	93	164034	20.0	17.0	
69 Dibromomethane	93	5.840	5.840	0.000	92	79632	20.0	19.7	
70 Methyl methacrylate	69	5.863	5.866	-0.003	92	131535	20.0	19.3	
71 1,4-Dioxane	88	5.875	5.872	0.003	88	61222	500.0	608.3	M
72 Dichlorobromomethane	83	6.013	6.013	0.000	100	149913	20.0	18.8	
74 2-Nitropropane	41	6.264	6.260	0.004	97	39349	20.0	13.4	
75 2-Chloroethyl vinyl ether	63	6.350	6.347	0.003	91	85492	20.0	16.9	
77 cis-1,3-Dichloropropene	75	6.498	6.495	0.003	98	201828	20.0	19.0	
78 4-Methyl-2-pentanone (MIBK)	43	6.671	6.674	-0.003	95	2608182	250.0	248.3	
$ 79 Toluene-d8 (Surr)	98	6.787	6.787	0.000	93	1040549	50.0	49.6	
80 Toluene	92	6.857	6.857	0.000	98	323730	20.0	20.6	
81 trans-1,3-Dichloropropene	75	7.104	7.101	0.003	91	193511	20.0	18.9	
84 Ethyl methacrylate	69	7.223	7.223	0.000	89	200444	20.0	16.9	
86 1,1,2-Trichloroethane	97	7.294	7.294	0.000	89	126212	20.0	20.6	
88 Tetrachloroethene	166	7.445	7.444	0.001	97	132199	20.0	21.8	
89 1,3-Dichloropropane	76	7.464	7.467	-0.003	88	217190	20.0	20.6	
90 2-Hexanone	43	7.567	7.566	0.001	95	2022366	250.0	255.4	
91 Chlorodibromomethane	129	7.688	7.688	0.000	90	124107	20.0	19.0	
92 Ethylene Dibromide	107	7.794	7.791	0.003	97	135694	20.0	20.5	
* 94 Chlorobenzene-d5 (IS)	117	8.234	8.234	0.000	85	801118	50.0	50.0	
95 1-Chlorohexane	91	8.253	8.253	0.000	97	148546	20.0	19.3	
96 Chlorobenzene	112	8.256	8.256	0.000	96	356744	20.0	21.3	
97 1,1,1,2-Tetrachloroethane	131	8.333	8.333	0.000	95	116382	20.0	20.3	
98 Ethylbenzene	91	8.362	8.362	0.000	98	586054	20.0	20.5	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	100	470122	40.0	42.5	
100 o-Xylene	106	8.802	8.805	-0.003	96	221395	20.0	19.8	
101 Styrene	104	8.815	8.815	0.000	94	385820	20.0	19.8	
103 Bromoform	173	8.959	8.959	0.000	98	98156	20.0	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Isopropylbenzene	105	9.107	9.110	-0.003	95	549504	20.0	21.2	
105 Cyclohexanone	55	9.171	9.174	-0.003	91	174397	500.0	318.0	
$ 106 4-Bromofluorobenzene (Surr)	95	9.222	9.222	0.000	93	378733	50.0	46.6	
108 Bromobenzene	156	9.341	9.338	0.003	94	157110	20.0	21.7	
109 1,1,2,2-Tetrachloroethane	83	9.341	9.341	0.000	92	221038	20.0	20.6	
110 1,2,3-Trichloropropane	110	9.373	9.373	0.000	82	61541	20.0	19.7	
111 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	93	231354	100.0	63.4	
112 N-Propylbenzene	91	9.431	9.431	0.000	99	665464	20.0	21.6	
113 2-Chlorotoluene	126	9.492	9.492	0.000	98	141155	20.0	21.6	
114 1,3,5-Trimethylbenzene	105	9.569	9.569	0.000	94	464687	20.0	21.1	
115 4-Chlorotoluene	126	9.579	9.578	0.000	98	151203	20.0	21.8	
116 tert-Butylbenzene	134	9.813	9.813	0.000	92	91176	20.0	20.0	
118 1,2,4-Trimethylbenzene	105	9.845	9.848	-0.003	97	483151	20.0	20.7	
119 sec-Butylbenzene	105	9.973	9.973	0.000	94	542840	20.0	23.3	
121 1,3-Dichlorobenzene	146	10.050	10.050	0.000	98	282915	20.0	21.5	
123 4-Isopropyltoluene	119	10.079	10.079	0.000	97	473211	20.0	22.8	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	94	436344	50.0	50.0	
125 1,4-Dichlorobenzene	146	10.114	10.114	0.000	96	304014	20.0	22.3	
126 1,2,3-Trimethylbenzene	105	10.153	10.156	-0.003	98	498044	20.0	20.6	
127 Benzyl chloride	91	10.214	10.211	0.003	98	388368	20.0	17.2	
128 p-Diethylbenzene	119	10.294	10.294	0.000	92	277760	20.0	21.0	
129 1,3-Diethylbenzene	119	10.352	10.352	0.000	93	299391	20.0	23.6	
130 n-Butylbenzene	92	10.371	10.371	0.000	97	228541	20.0	23.1	
131 1,2-Dichlorobenzene	146	10.381	10.381	0.000	99	286122	20.0	21.8	
132 o-diethylbenzene	119	10.435	10.435	0.000	94	241365	20.0	22.0	
133 1,2-Dibromo-3-Chloropropane	75	10.917	10.917	0.001	89	43995	20.0	16.6	
134 1,2,4-Trichlorobenzene	180	11.061	11.061	0.000	93	193836	20.0	23.9	
136 1,2,3-Trichlorobenzene	180	11.472	11.472	0.000	96	187041	20.0	23.3	
137 Hexachlorobutadiene	225	11.581	11.581	0.000	95	71211	20.0	23.2	
138 Naphthalene	128	11.635	11.635	0.000	97	628767	20.0	19.6	
139 1,3,5-Trichlorobenzene	180	11.793	11.789	0.004	97	186649	20.0	23.8	
140 2-Methylnaphthalene	142	12.354	12.354	0.000	91	271722	20.0	17.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_ACROL_00024	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00022	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00024	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00041	Amount Added: 50.00	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 50.00	Units: uL	
MSV_QCYC_00006	Amount Added: 50.00	Units: uL	
MSV_HP18_ISSS_00020	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 11-Oct-2021 12:26:38 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X03.D

Injection Date: 11-Oct-2021 09:43:30 Instrument ID: 9137 Operator ID: lcp00895

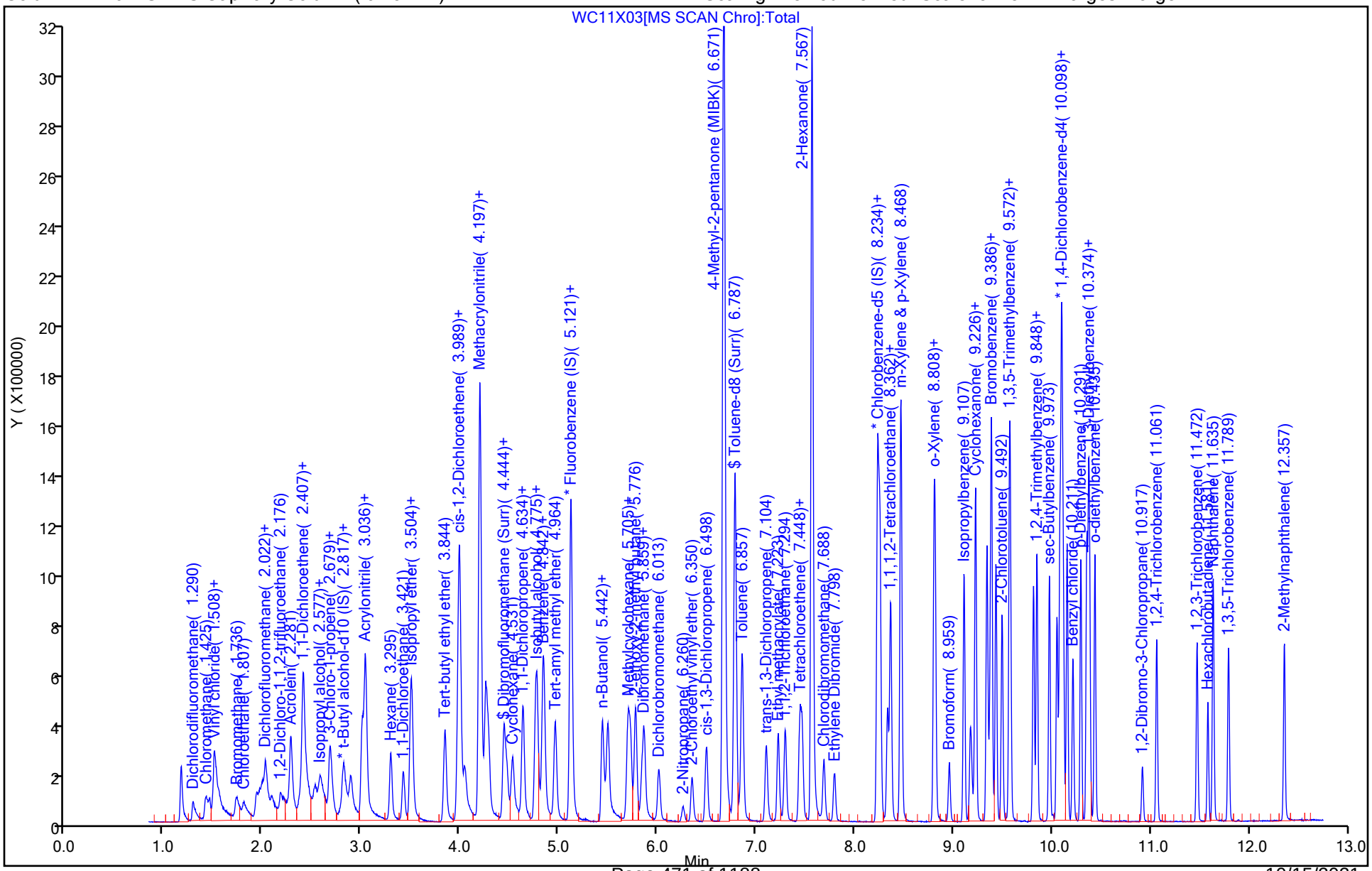
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9137 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

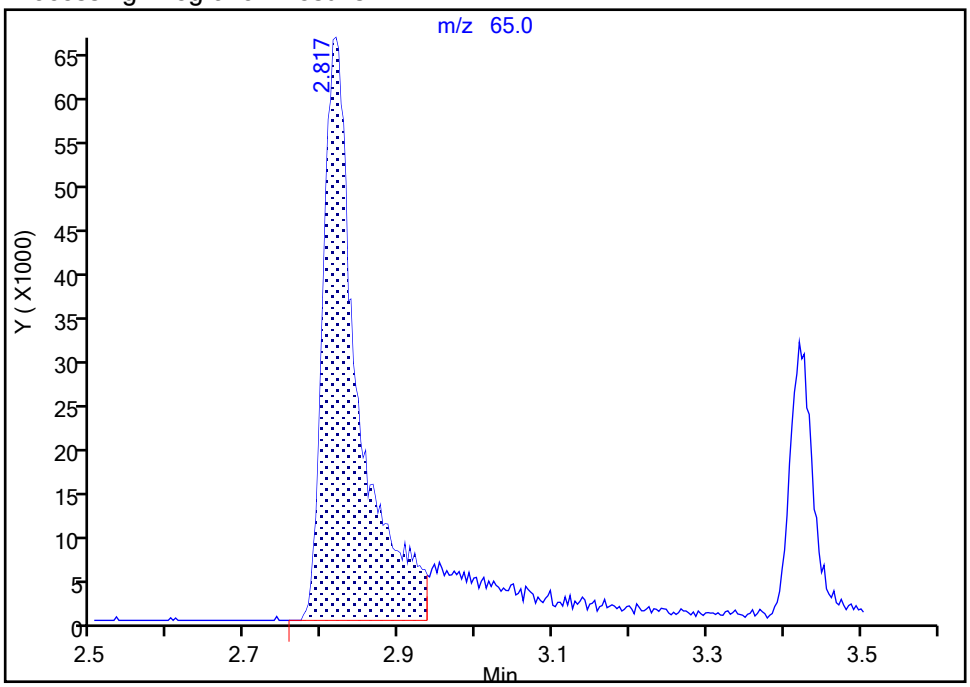
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Injection Date: 11-Oct-2021 09:43:30 Instrument ID: 9137
Lims ID: LCS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

* 28 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

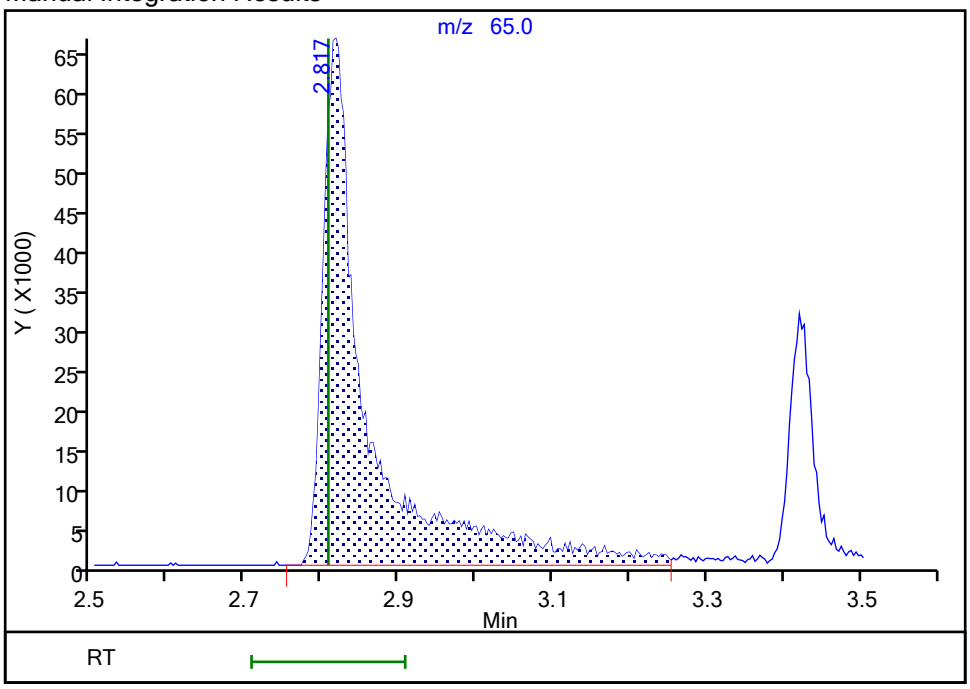
Processing Integration Results

RT: 2.82
Area: 210593
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.82
Area: 266153
Amount: 250.0000
Amount Units: ug/l



Reviewer: papel, 11-Oct-2021 10:07:56
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 MS Lab Sample ID: 410-57303-3 MS

Matrix: Ground Water Lab File ID: WC11X09.D

Analysis Method: 8260C Date Collected: 09/28/2021 14:43

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 11:57

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.: 181168 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	21.6		1.0	0.40
108-88-3	Toluene	21.8		1.0	0.20
1330-20-7	Xylenes, Total	64.5		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	17.4		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)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X09.D
Lims ID: 410-57303-C-3 MS
Client ID: MW-10D-20210928
Sample Type: MS
Inject. Date: 11-Oct-2021 11:57:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-010
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: papel Date: 11-Oct-2021 14:31:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	1.287	1.290	-0.003	99	157725	20.0	34.3	
7 Chloromethane	50	1.421	1.428	-0.007	99	185844	20.0	26.7	
8 Vinyl chloride	62	1.495	1.495	0.000	98	195846	20.0	28.7	
9 Butadiene	39	1.508	1.521	-0.013	90	46466	20.0	7.22	
10 Bromomethane	94	1.729	1.739	-0.010	89	109691	20.0	24.1	
11 Chloroethane	64	1.803	1.806	-0.003	98	99267	20.0	23.5	
13 Dichlorofluoromethane	67	1.935	1.938	-0.003	97	240038	20.0	26.3	
14 Trichlorofluoromethane	101	1.983	1.986	-0.003	95	181836	20.0	26.6	
15 Pentane	43	2.025	2.025	0.000	94	146933	20.0	16.7	
16 Ethanol	45	2.092	2.089	0.003	92	48221	1000.0	598.0	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.179	2.185	-0.006	90	136337	20.0	22.5	
18 Acrolein	56	2.285	2.281	0.003	100	299799	150.4	180.9	
20 1,1-Dichloroethene	96	2.390	2.394	-0.004	97	133349	20.0	25.8	
21 112TCTFE	101	2.390	2.400	-0.010	53	66247	20.0	14.8	
22 Acetone	58	2.406	2.406	0.000	99	246129	250.0	365.8	
23 Isopropyl alcohol	45	2.525	2.519	0.006	100	72539	150.0	161.0	
24 Iodomethane	142	2.538	2.532	0.006	73	166753	20.0	17.6	a
25 Carbon disulfide	76	2.577	2.580	-0.004	99	363196	20.0	19.8	
26 3-Chloro-1-propene	41	2.676	2.679	-0.003	94	183210	20.0	20.5	
27 Methyl acetate	43	2.695	2.698	-0.003	98	129191	20.0	20.2	
* 28 t-Butyl alcohol-d10 (IS)	65	2.817	2.808	0.009	98	222981	250.0	250.0	
29 Methylene Chloride	84	2.817	2.817	0.000	78	140016	20.0	22.0	a
30 2-Methyl-2-propanol	59	2.888	2.885	0.003	100	213498	200.0	213.5	
31 Acrylonitrile	53	3.003	3.003	0.000	100	344402	100.0	111.9	
32 trans-1,2-Dichloroethene	96	3.039	3.039	0.000	99	118805	20.0	21.1	
33 Methyl tert-butyl ether	73	3.042	3.042	0.000	95	341576	20.0	17.4	
35 Hexane	57	3.295	3.295	0.000	92	165228	20.0	26.1	
36 1,1-Dichloroethane	63	3.420	3.424	-0.004	96	208502	20.0	20.7	
37 Isopropyl ether	45	3.497	3.498	-0.001	95	369382	20.0	18.9	
38 2-Chloro-1,3-butadiene	53	3.510	3.514	-0.004	89	179916	20.0	19.5	
40 Tert-butyl ethyl ether	59	3.844	3.841	0.003	97	311994	20.0	16.2	
41 cis-1,2-Dichloroethene	96	3.976	3.976	0.000	80	135025	20.0	22.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	77	3.979	3.976	0.003	53	99677	20.0	23.4	
43 2-Butanone (MEK)	43	3.992	3.992	0.000	100	1265381	250.0	277.3	
44 Propionitrile	54	4.049	4.049	0.000	100	209392	150.0	182.8	
45 Methacrylonitrile	67	4.197	4.197	0.000	91	589605	150.0	156.9	
46 Chlorobromomethane	128	4.207	4.207	0.000	67	66350	20.0	22.8	
47 Tetrahydrofuran	71	4.261	4.255	0.006	92	134226	100.0	111.5	
48 Chloroform	83	4.284	4.284	0.000	93	199853	20.0	20.4	
$ 50 Dibromofluoromethane (Surr)	113	4.441	4.441	0.000	94	226863	50.0	49.0	
51 1,1,1-Trichloroethane	97	4.470	4.470	0.000	98	158218	20.0	19.5	
53 Cyclohexane	56	4.534	4.531	0.003	90	193684	20.0	20.8	a
54 1,1-Dichloropropene	75	4.633	4.637	-0.004	97	163227	20.0	21.6	
55 Carbon tetrachloride	117	4.640	4.637	0.003	74	124099	20.0	18.8	
56 Isobutyl alcohol	41	4.762	4.759	0.003	96	167419	500.0	503.4	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.775	4.775	0.000	96	64573	50.0	52.7	
58 Benzene	78	4.839	4.842	-0.003	95	528551	20.0	22.3	
59 1,2-Dichloroethane	62	4.852	4.855	-0.003	96	146719	20.0	17.9	
60 Tert-amyl methyl ether	73	4.961	4.961	0.000	98	319562	20.0	16.9	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	98	1016312	50.0	50.0	
62 n-Heptane	43	5.121	5.124	-0.003	45	135405	20.0	23.4	
63 n-Butanol	56	5.439	5.442	-0.003	89	286731	1000.0	1005.3	
64 Trichloroethene	95	5.497	5.497	0.000	99	130509	20.0	21.9	
66 Methylcyclohexane	83	5.696	5.699	-0.003	92	195854	20.0	25.9	
67 1,2-Dichloropropane	63	5.721	5.724	-0.003	98	137402	20.0	21.3	
68 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	94	160818	20.0	17.2	
69 Dibromomethane	93	5.843	5.840	0.003	95	81720	20.0	20.9	
70 Methyl methacrylate	69	5.862	5.866	-0.004	93	120840	20.0	18.3	
71 1,4-Dioxane	88	5.882	5.872	0.010	45	33328	500.0	395.2	
72 Dichlorobromomethane	83	6.013	6.013	0.000	99	148492	20.0	19.2	
74 2-Nitropropane	41	6.254	6.260	-0.006	98	16212	20.0	6.57	
75 2-Chloroethyl vinyl ether	63		6.347				20.0	ND	7
77 cis-1,3-Dichloropropene	75	6.498	6.495	0.003	97	194939	20.0	18.9	
78 4-Methyl-2-pentanone (MIBK)	43	6.671	6.674	-0.003	95	2509331	250.0	246.2	
$ 79 Toluene-d8 (Surr)	98	6.783	6.787	-0.004	92	1018139	50.0	49.8	
80 Toluene	92	6.854	6.857	-0.003	97	333705	20.0	21.8	
81 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	91	185986	20.0	18.6	
84 Ethyl methacrylate	69	7.223	7.223	0.000	89	198283	20.0	17.2	
86 1,1,2-Trichloroethane	97	7.290	7.294	-0.004	89	124903	20.0	20.9	
88 Tetrachloroethene	166	7.444	7.444	0.000	97	139634	20.0	23.6	
89 1,3-Dichloropropane	76	7.467	7.467	0.000	88	210423	20.0	20.4	
90 2-Hexanone	43	7.566	7.566	0.000	95	1920772	250.0	248.7	
91 Chlorodibromomethane	129	7.688	7.688	0.000	90	124274	20.0	19.5	
92 Ethylene Dibromide	107	7.791	7.791	0.000	99	132288	20.0	20.5	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	85	781287	50.0	50.0	
95 1-Chlorohexane	91	8.250	8.253	-0.003	99	163083	20.0	21.7	
96 Chlorobenzene	112	8.259	8.256	0.003	95	358863	20.0	21.9	
97 1,1,1,2-Tetrachloroethane	131	8.333	8.333	0.000	95	116790	20.0	20.9	
98 Ethylbenzene	91	8.362	8.362	0.000	98	602428	20.0	21.6	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	100	469399	40.0	43.5	
100 o-Xylene	106	8.802	8.805	-0.003	96	228841	20.0	21.0	
101 Styrene	104	8.815	8.815	0.000	95	389803	20.0	20.5	
103 Bromoform	173	8.959	8.959	0.000	99	93819	20.0	18.6	
104 Isopropylbenzene	105	9.107	9.110	-0.003	95	571209	20.0	22.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Cyclohexanone	55	9.174	9.174	0.000	89	159933	500.0	348.1	
$ 106 4-Bromofluorobenzene (Surr)	95	9.225	9.222	0.003	93	371689	50.0	46.9	
108 Bromobenzene	156	9.341	9.338	0.003	90	161592	20.0	22.5	
109 1,1,2,2-Tetrachloroethane	83	9.341	9.341	0.000	91	206401	20.0	19.3	
110 1,2,3-Trichloropropane	110	9.373	9.373	0.000	82	58964	20.0	19.0	
111 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	93	238765	100.0	65.8	
112 N-Propylbenzene	91	9.431	9.431	0.000	99	690838	20.0	22.6	
113 2-Chlorotoluene	126	9.492	9.492	0.000	97	142086	20.0	21.9	
114 1,3,5-Trimethylbenzene	105	9.569	9.569	0.000	95	477447	20.0	21.8	
115 4-Chlorotoluene	126	9.578	9.578	0.000	98	152890	20.0	22.2	
116 tert-Butylbenzene	134	9.813	9.813	0.000	92	95715	20.0	21.2	
118 1,2,4-Trimethylbenzene	105	9.848	9.848	0.000	97	490138	20.0	21.2	
119 sec-Butylbenzene	105	9.973	9.973	0.000	94	569003	20.0	24.6	
121 1,3-Dichlorobenzene	146	10.053	10.050	0.003	98	294990	20.0	22.6	
123 4-Isopropyltoluene	119	10.079	10.079	0.000	97	495166	20.0	24.0	
* 124 1,4-Dichlorobenzene-d4	152	10.098	10.098	0.000	95	433558	50.0	50.0	
125 1,4-Dichlorobenzene	146	10.114	10.114	0.000	96	309944	20.0	22.9	
126 1,2,3-Trimethylbenzene	105	10.153	10.156	-0.003	98	500227	20.0	20.8	
127 Benzyl chloride	91	10.214	10.211	0.003	98	370254	20.0	16.5	
128 p-Diethylbenzene	119	10.294	10.294	0.000	92	287642	20.0	21.9	
129 1,3-Diethylbenzene	119	10.352	10.352	0.000	91	311153	20.0	24.7	
130 n-Butylbenzene	92	10.371	10.371	0.000	97	238724	20.0	24.2	
131 1,2-Dichlorobenzene	146	10.381	10.381	0.000	98	286587	20.0	22.0	
132 o-diethylbenzene	119	10.435	10.435	0.000	94	250514	20.0	22.9	
133 1,2-Dibromo-3-Chloropropane	75	10.916	10.917	0.000	90	39172	20.0	14.9	
134 1,2,4-Trichlorobenzene	180	11.064	11.061	0.003	93	197184	20.0	24.5	
136 1,2,3-Trichlorobenzene	180	11.472	11.472	0.000	95	184312	20.0	23.1	
137 Hexachlorobutadiene	225	11.581	11.581	0.000	95	73445	20.0	24.1	
138 Naphthalene	128	11.635	11.635	0.000	97	600200	20.0	18.8	
139 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	97	185989	20.0	23.9	
140 2-Methylnaphthalene	142	12.354	12.354	0.000	91	214870	20.0	14.2	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_LCS_Gases_00041	Amount Added: 21.50	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 21.50	Units: uL	
MSV_QCYC_00006	Amount Added: 21.50	Units: uL	
MSV_LCS_ACROL_00024	Amount Added: 21.50	Units: uL	
MSV_LCS_VOC#1_00022	Amount Added: 21.50	Units: uL	
MSV_LCS_2CEVE_00024	Amount Added: 21.50	Units: uL	
MSV_HP18_ISSS_00020	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 11-Oct-2021 16:55:07 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X09.D

Injection Date: 11-Oct-2021 11:57:30 Instrument ID: 9137 Operator ID: lcp00895

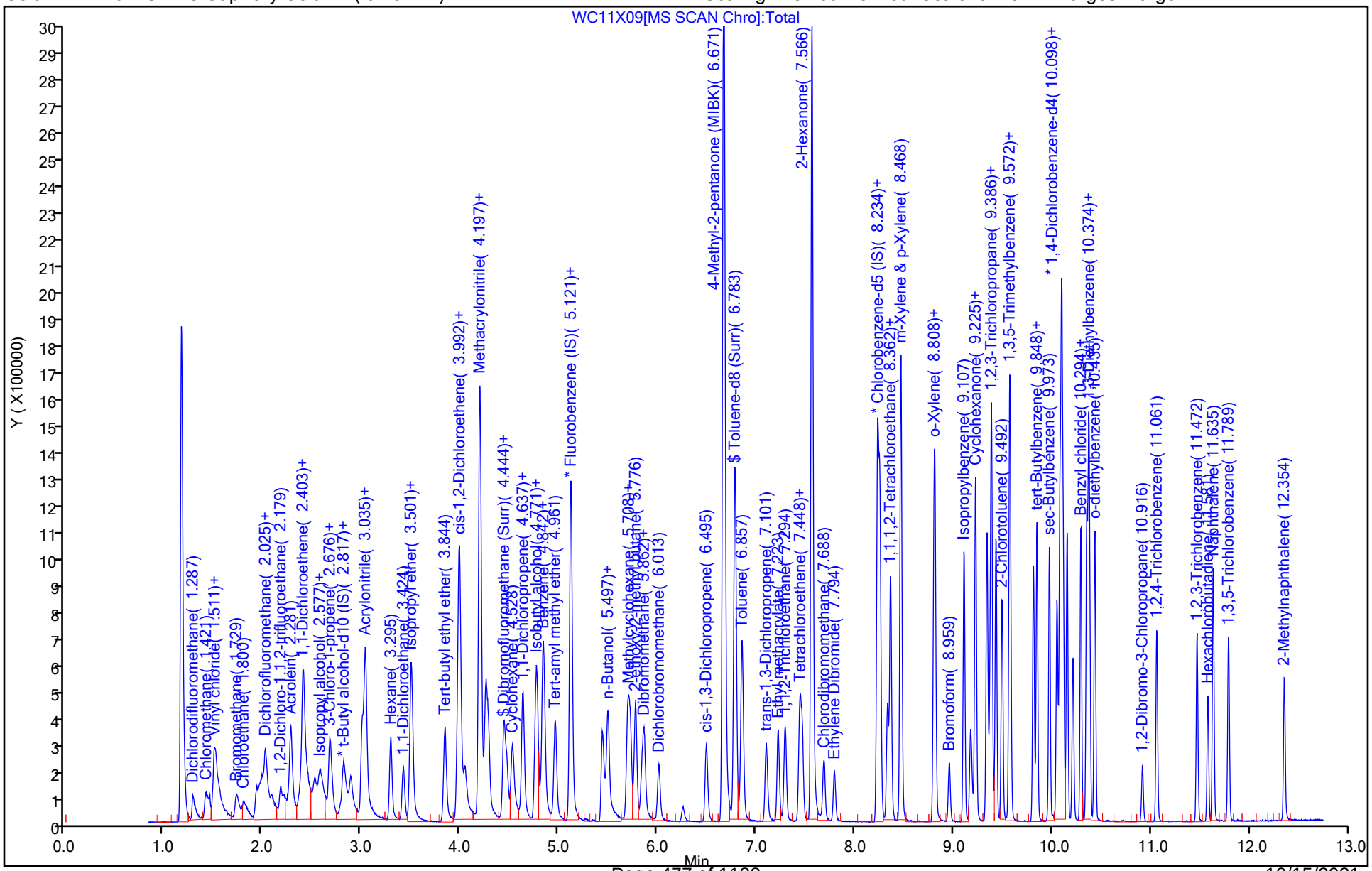
Lims ID: 410-57303-C-3 MS Worklist Smp#: 10

Client ID: MW-10D-20210928

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: MSVoa_9137 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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 MSD Lab Sample ID: 410-57303-3 MSD

Matrix: Ground Water Lab File ID: WC11X10.D

Analysis Method: 8260C Date Collected: 09/28/2021 14:43

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2021 12:20

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.: 181168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	23.0		1.0	0.30
100-41-4	Ethylbenzene	21.8		1.0	0.40
108-88-3	Toluene	22.2		1.0	0.20
1330-20-7	Xylenes, Total	66.5		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	17.5		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)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X10.D
Lims ID: 410-57303-C-3 MSD
Client ID: MW-10D-20210928
Sample Type: MSD
Inject. Date: 11-Oct-2021 12:20:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0041199-011
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2021 16:54:56 Calib Date: 25-May-2021 18:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20210525-30273.b\WY25I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: beckerk Date: 11-Oct-2021 16:51:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	1.290	1.290	0.000	99	156065	20.0	33.8	
7 Chloromethane	50	1.425	1.428	-0.003	99	191744	20.0	27.5	
8 Vinyl chloride	62	1.492	1.495	-0.003	98	193733	20.0	28.3	
9 Butadiene	39	1.515	1.521	-0.006	90	183759	20.0	28.5	
10 Bromomethane	94	1.730	1.739	-0.009	89	113913	20.0	25.0	
11 Chloroethane	64	1.807	1.806	0.001	99	109561	20.0	25.8	
13 Dichlorofluoromethane	67	1.932	1.938	-0.006	96	224398	20.0	24.5	
14 Trichlorofluoromethane	101	1.983	1.986	-0.003	97	182228	20.0	26.6	
15 Pentane	43	2.025	2.025	0.000	94	142806	20.0	16.2	
16 Ethanol	45	2.089	2.089	0.000	97	52508	1000.0	732.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.179	2.185	-0.006	89	158812	20.0	26.1	
18 Acrolein	56	2.281	2.281	0.000	99	293930	150.4	197.3	
20 1,1-Dichloroethene	96	2.387	2.394	-0.007	97	128785	20.0	24.8	
21 112TCTFE	101	2.391	2.400	-0.009	55	48562	20.0	10.8	
22 Acetone	58	2.407	2.406	0.001	100	222601	250.0	368.1	
23 Isopropyl alcohol	45	2.522	2.519	0.003	98	67982	150.0	167.2	
24 Iodomethane	142	2.525	2.532	-0.007	97	169540	20.0	17.8	a
25 Carbon disulfide	76	2.580	2.580	0.000	99	351811	20.0	19.1	
26 3-Chloro-1-propene	41	2.676	2.679	-0.003	93	184304	20.0	20.6	
27 Methyl acetate	43	2.695	2.698	-0.003	98	143901	20.0	22.4	
* 28 t-Butyl alcohol-d10 (IS)	65	2.814	2.808	0.006	99	200406	250.0	250.0	
29 Methylene Chloride	84	2.821	2.817	0.004	68	142517	20.0	22.4	a
30 2-Methyl-2-propanol	59	2.891	2.885	0.006	99	199367	200.0	221.8	
31 Acrylonitrile	53	3.007	3.003	0.004	100	339798	100.0	110.1	
32 trans-1,2-Dichloroethene	96	3.032	3.039	-0.007	100	122380	20.0	21.7	
33 Methyl tert-butyl ether	73	3.039	3.042	-0.003	95	344266	20.0	17.5	
35 Hexane	57	3.296	3.295	0.001	90	158158	20.0	24.9	
36 1,1-Dichloroethane	63	3.421	3.424	-0.003	96	212763	20.0	21.1	
37 Isopropyl ether	45	3.498	3.498	0.000	94	372867	20.0	19.0	
38 2-Chloro-1,3-butadiene	53	3.514	3.514	0.000	89	180995	20.0	19.6	
40 Tert-butyl ethyl ether	59	3.844	3.841	0.003	98	325854	20.0	16.9	
41 cis-1,2-Dichloroethene	96	3.976	3.976	0.000	81	136625	20.0	22.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	77	3.982	3.976	0.006	53	104406	20.0	24.5	
43 2-Butanone (MEK)	43	3.992	3.992	0.000	99	1150982	250.0	251.5	
44 Propionitrile	54	4.050	4.049	0.001	99	193784	150.0	188.2	
45 Methacrylonitrile	67	4.197	4.197	0.000	90	594859	150.0	157.8	
46 Chlorobromomethane	128	4.207	4.207	0.000	44	68192	20.0	23.4	
47 Tetrahydrofuran	71	4.258	4.255	0.003	91	132890	100.0	122.8	
48 Chloroform	83	4.284	4.284	0.000	93	201373	20.0	20.5	
$ 50 Dibromofluoromethane (Surr)	113	4.438	4.441	-0.003	94	223410	50.0	48.1	
51 1,1,1-Trichloroethane	97	4.473	4.470	0.003	98	158799	20.0	19.5	
53 Cyclohexane	56	4.531	4.531	0.000	90	178108	20.0	19.1	
54 1,1-Dichloropropene	75	4.634	4.637	-0.003	97	171115	20.0	22.6	
55 Carbon tetrachloride	117	4.637	4.637	0.000	78	128067	20.0	19.4	
56 Isobutyl alcohol	41	4.762	4.759	0.003	95	157188	500.0	525.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.778	4.775	0.003	96	62397	50.0	50.8	
58 Benzene	78	4.842	4.842	0.000	95	546643	20.0	23.0	
59 1,2-Dichloroethane	62	4.855	4.855	0.000	95	151453	20.0	18.4	
60 Tert-amyl methyl ether	73	4.961	4.961	0.000	99	328663	20.0	17.4	
* 61 Fluorobenzene (IS)	96	5.121	5.121	0.000	99	1019339	50.0	50.0	
62 n-Heptane	43	5.125	5.124	0.001	90	143497	20.0	24.8	
63 n-Butanol	56	5.439	5.442	-0.003	87	276128	1000.0	1077.2	
64 Trichloroethene	95	5.497	5.497	0.000	97	126196	20.0	21.1	
66 Methylcyclohexane	83	5.699	5.699	0.000	92	196268	20.0	25.9	
67 1,2-Dichloropropane	63	5.728	5.724	0.004	97	141848	20.0	21.9	
68 2-ethoxy-2-methyl butane	87	5.776	5.776	0.000	94	165289	20.0	17.6	
69 Dibromomethane	93	5.843	5.840	0.003	94	80295	20.0	20.4	
70 Methyl methacrylate	69	5.863	5.866	-0.003	92	123287	20.0	18.6	
71 1,4-Dioxane	88	5.885	5.872	0.013	67	42887	500.0	565.9	
72 Dichlorobromomethane	83	6.013	6.013	0.000	99	152163	20.0	19.6	
74 2-Nitropropane	41	6.254	6.260	-0.006	94	16500	20.0	7.44	
75 2-Chloroethyl vinyl ether	63		6.347				ND	ND	
77 cis-1,3-Dichloropropene	75	6.495	6.495	0.000	97	199803	20.0	19.3	
78 4-Methyl-2-pentanone (MIBK)	43	6.671	6.674	-0.003	95	2503865	250.0	244.9	
$ 79 Toluene-d8 (Surr)	98	6.784	6.787	-0.003	94	1023309	50.0	50.0	
80 Toluene	92	6.857	6.857	0.000	99	340957	20.0	22.2	
81 trans-1,3-Dichloropropene	75	7.101	7.101	0.000	91	193023	20.0	19.4	
84 Ethyl methacrylate	69	7.220	7.223	-0.003	90	193931	20.0	16.8	
86 1,1,2-Trichloroethane	97	7.297	7.294	0.003	90	125230	20.0	20.9	
88 Tetrachloroethene	166	7.441	7.444	-0.003	98	144059	20.0	24.4	
89 1,3-Dichloropropane	76	7.467	7.467	0.000	89	209795	20.0	20.4	
90 2-Hexanone	43	7.567	7.566	0.001	96	1946364	250.0	252.1	
91 Chlorodibromomethane	129	7.685	7.688	-0.003	90	126312	20.0	19.8	
92 Ethylene Dibromide	107	7.794	7.791	0.003	98	132462	20.0	20.5	
* 94 Chlorobenzene-d5 (IS)	117	8.231	8.234	-0.003	85	781079	50.0	50.0	
95 1-Chlorohexane	91	8.253	8.253	0.000	98	161452	20.0	21.5	
96 Chlorobenzene	112	8.256	8.256	0.000	96	365564	20.0	22.4	
97 1,1,1,2-Tetrachloroethane	131	8.333	8.333	0.000	97	116989	20.0	20.9	
98 Ethylbenzene	91	8.366	8.362	0.004	98	609844	20.0	21.8	
99 m-Xylene & p-Xylene	106	8.468	8.468	0.000	100	488443	40.0	45.3	
100 o-Xylene	106	8.802	8.805	-0.003	96	230202	20.0	21.2	
101 Styrene	104	8.815	8.815	0.000	94	393108	20.0	20.7	
103 Bromoform	173	8.956	8.959	-0.003	98	95341	20.0	18.9	
104 Isopropylbenzene	105	9.107	9.110	-0.003	95	581931	20.0	23.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Cyclohexanone	55	9.177	9.174	0.003	91	163307	500.0	395.4	
$ 106 4-Bromofluorobenzene (Surr)	95	9.226	9.222	0.004	93	369075	50.0	46.6	
108 Bromobenzene	156	9.341	9.338	0.003	90	160966	20.0	22.4	
109 1,1,2,2-Tetrachloroethane	83	9.341	9.341	0.000	90	208438	20.0	19.6	
110 1,2,3-Trichloropropane	110	9.373	9.373	0.000	82	59387	20.0	19.2	
111 trans-1,4-Dichloro-2-butene	53	9.386	9.386	0.000	93	237387	100.0	65.6	
112 N-Propylbenzene	91	9.431	9.431	0.000	99	693355	20.0	22.7	
113 2-Chlorotoluene	126	9.492	9.492	0.000	97	144863	20.0	22.4	
114 1,3,5-Trimethylbenzene	105	9.569	9.569	0.000	95	479777	20.0	22.0	
115 4-Chlorotoluene	126	9.579	9.578	0.001	98	153403	20.0	22.4	
116 tert-Butylbenzene	134	9.813	9.813	0.000	92	98121	20.0	21.8	
118 1,2,4-Trimethylbenzene	105	9.848	9.848	0.000	97	500301	20.0	21.7	
119 sec-Butylbenzene	105	9.976	9.973	0.003	93	572280	20.0	24.8	
121 1,3-Dichlorobenzene	146	10.050	10.050	0.000	98	291794	20.0	22.4	
123 4-Isopropyltoluene	119	10.079	10.079	0.000	97	490566	20.0	23.8	
* 124 1,4-Dichlorobenzene-d4	152	10.095	10.098	-0.003	94	432535	50.0	50.0	
125 1,4-Dichlorobenzene	146	10.114	10.114	0.000	96	304493	20.0	22.5	
126 1,2,3-Trimethylbenzene	105	10.153	10.156	-0.003	98	507770	20.0	21.1	
127 Benzyl chloride	91	10.214	10.211	0.003	98	372162	20.0	16.6	
128 p-Diethylbenzene	119	10.294	10.294	0.000	91	287513	20.0	22.0	
129 1,3-Diethylbenzene	119	10.352	10.352	0.000	92	309515	20.0	24.6	
130 n-Butylbenzene	92	10.371	10.371	0.000	98	243069	20.0	24.7	
131 1,2-Dichlorobenzene	146	10.381	10.381	0.000	99	292346	20.0	22.5	
132 o-diethylbenzene	119	10.435	10.435	0.000	94	252518	20.0	23.2	
133 1,2-Dibromo-3-Chloropropane	75	10.917	10.917	0.001	88	40708	20.0	15.5	
134 1,2,4-Trichlorobenzene	180	11.064	11.061	0.003	94	200093	20.0	24.9	
136 1,2,3-Trichlorobenzene	180	11.472	11.472	0.000	96	193309	20.0	24.3	
137 Hexachlorobutadiene	225	11.581	11.581	0.000	95	75386	20.0	24.7	
138 Naphthalene	128	11.635	11.635	0.000	97	622956	20.0	19.6	
139 1,3,5-Trichlorobenzene	180	11.789	11.789	0.000	98	187893	20.0	24.2	
140 2-Methylnaphthalene	142	12.354	12.354	0.000	92	235124	20.0	15.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_LCS_Gases_00041	Amount Added: 21.50	Units: uL	
MSV_Q_ETOH_00009	Amount Added: 21.50	Units: uL	
MSV_QCYC_00006	Amount Added: 21.50	Units: uL	
MSV_LCS_ACROL_00024	Amount Added: 21.50	Units: uL	
MSV_LCS_VOC#1_00022	Amount Added: 21.50	Units: uL	
MSV_LCS_2CEVE_00024	Amount Added: 21.50	Units: uL	
MSV_HP18_ISSS_00020	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 11-Oct-2021 16:55:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20211011-41199.b\WC11X10.D

Injection Date: 11-Oct-2021 12:20:30 Instrument ID: 9137 Operator ID: lcp00895

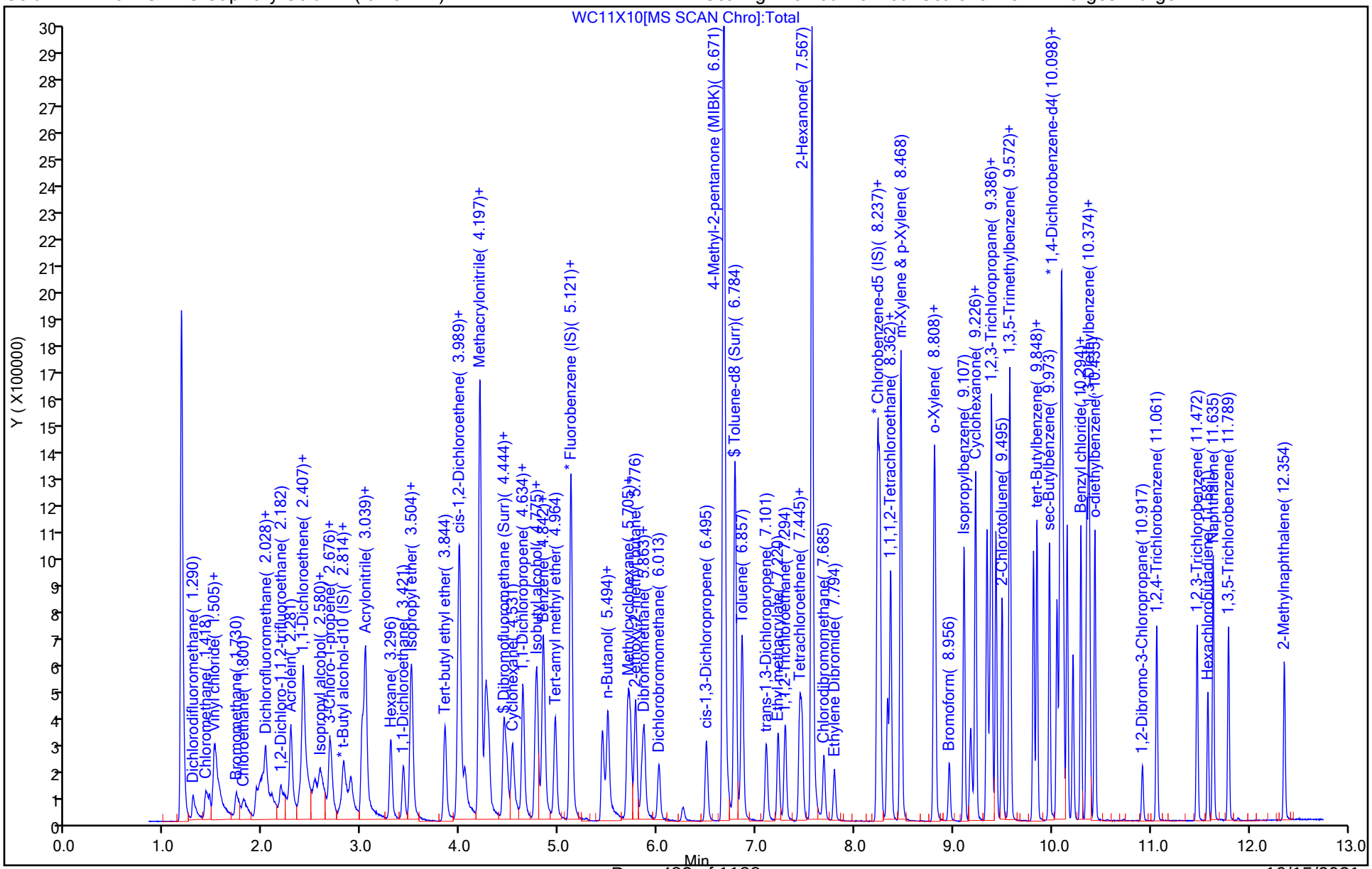
Lims ID: 410-57303-C-3 MSD Worklist Smp#: 11

Client ID: MW-10D-20210928

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: MSVoa_9137 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



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: 9137 Start Date: 05/25/2021 14:32

Analysis Batch Number: 130493 End Date: 05/25/2021 18:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-130493/1		05/25/2021 14:32	1	WY25T01.D	R-624SilMS 30m 0.25(mm)
IC 410-130493/3		05/25/2021 15:47	1	WY25I01.D	R-624SilMS 30m 0.25(mm)
IC 410-130493/4		05/25/2021 16:09	1	WY25I02.D	R-624SilMS 30m 0.25(mm)
ICIS 410-130493/5		05/25/2021 16:31	1	WY25I03.D	R-624SilMS 30m 0.25(mm)
IC 410-130493/6		05/25/2021 16:54	1	WY25I04.D	R-624SilMS 30m 0.25(mm)
IC 410-130493/7		05/25/2021 17:17	1	WY25I05.D	R-624SilMS 30m 0.25(mm)
IC 410-130493/8		05/25/2021 17:39	1	WY25I06.D	R-624SilMS 30m 0.25(mm)
IC 410-130493/9		05/25/2021 18:01	1	WY25I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-130493/11		05/25/2021 18:46	1	WY25V01.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: 9137 Start Date: 10/11/2021 08:30

Analysis Batch Number: 181168 End Date: 10/11/2021 19:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-181168/1		10/11/2021 08:30	1	WC11T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-181168/3		10/11/2021 09:21	1	WC11X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-181168/4		10/11/2021 09:43	1	WC11X03.D	R-624SilMS 30m 0.25(mm)
MB 410-181168/6		10/11/2021 10:28	1	WC11X05.D	R-624SilMS 30m 0.25(mm)
410-57303-12	FB-20210929	10/11/2021 10:50	1	WC11X06.D	R-624SilMS 30m 0.25(mm)
410-57303-21	TripBlank-20210930	10/11/2021 11:13	1	WC11X07.D	R-624SilMS 30m 0.25(mm)
410-57303-3	MW-10D-20210928	10/11/2021 11:35	1	WC11X08.D	R-624SilMS 30m 0.25(mm)
410-57303-3 MS	MW-10D-20210928 MS	10/11/2021 11:57	1	WC11X09.D	R-624SilMS 30m 0.25(mm)
410-57303-3 MSD	MW-10D-20210928 MSD	10/11/2021 12:20	1	WC11X10.D	R-624SilMS 30m 0.25(mm)
410-57303-1	MW-1-20210928	10/11/2021 12:42	1	WC11X11.D	R-624SilMS 30m 0.25(mm)
410-57303-2	MW-10S-20210928	10/11/2021 13:05	1	WC11X12.D	R-624SilMS 30m 0.25(mm)
410-57303-4	MW-8S-20210928	10/11/2021 13:27	1	WC11X13.D	R-624SilMS 30m 0.25(mm)
410-57303-5	MW-8D-20210928	10/11/2021 13:49	1	WC11X14.D	R-624SilMS 30m 0.25(mm)
410-57303-6	MW-7S-20210929	10/11/2021 14:12	1	WC11X15.D	R-624SilMS 30m 0.25(mm)
410-57303-7	MW-7D-20210929	10/11/2021 14:33	1	WC11X16.D	R-624SilMS 30m 0.25(mm)
410-57303-8	MW-14S-20210929	10/11/2021 14:55	1	WC11X17.D	R-624SilMS 30m 0.25(mm)
410-57303-9	MW-14D-20210929	10/11/2021 15:18	1	WC11X18.D	R-624SilMS 30m 0.25(mm)
410-57303-10	MW-12S-20210929	10/11/2021 15:40	1	WC11X19.D	R-624SilMS 30m 0.25(mm)
410-57303-11	MW-12D-20210929	10/11/2021 16:03	1	WC11X20.D	R-624SilMS 30m 0.25(mm)
410-57303-13	MW-11S-20210929	10/11/2021 16:25	1	WC11X21.D	R-624SilMS 30m 0.25(mm)
410-57303-14	MW-11D-20210929	10/11/2021 16:47	1	WC11X22.D	R-624SilMS 30m 0.25(mm)
410-57303-15	MW-4S-20210929	10/11/2021 17:10	1	WC11X23.D	R-624SilMS 30m 0.25(mm)
410-57303-16	MW-4D-20210929	10/11/2021 17:32	1	WC11X24.D	R-624SilMS 30m 0.25(mm)
410-57303-17	MW-3-20210930	10/11/2021 17:54	1	WC11X25.D	R-624SilMS 30m 0.25(mm)
410-57303-18	MW-13S-20210930	10/11/2021 18:17	1	WC11X26.D	R-624SilMS 30m 0.25(mm)
410-57303-19	MW-13D-20210930	10/11/2021 18:39	1	WC11X27.D	R-624SilMS 30m 0.25(mm)
410-57303-20	DUP-20210930	10/11/2021 19:01	1	WC11X28.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-57303-1

SDG No.:

Batch Number: 130493 Batch Start Date: 05/25/21 14:32 Batch Analyst: Riehl, Chelsea

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEtOH 00199	MSV_CCV_2CEVE 00002	MSV_CCV_GASES 00003
BFB 410-130493/1		8260C		1 uL	1 uL				
IC 410-130493/3		8260C		5 mL	5 mL	2593		15 uL	7.5 uL
IC 410-130493/4		8260C		5 mL	5 mL	2593		5 uL	2.5 uL
ICIS 410-130493/5		8260C		5 mL	5 mL	2593		5 uL	2.5 uL
IC 410-130493/6		8260C		5 mL	5 mL	2593		4 uL	2 uL
IC 410-130493/7		8260C		5 mL	5 mL	2593		2 uL	1 uL
IC 410-130493/8		8260C		5 mL	5 mL	2593		4 uL	2 uL
IC 410-130493/9		8260C		5 mL	5 mL	2593	12.5 mL		
ICV 410-130493/11		8260C		5 mL	5 mL	2593			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_Penta 00001	MSV_CCV_VOC#1 00002	MSV_CCV_VOC#3 00002	MSV_HP18_ISSS 00011	MSV_LCS_2CEVE 00002	MSV_LCS_Gases 00002
BFB 410-130493/1		8260C							
IC 410-130493/3		8260C		15 uL	15 uL	12 uL	1 uL		
IC 410-130493/4		8260C		5 uL	5 uL	4 uL	1 uL		
ICIS 410-130493/5		8260C		5 uL	5 uL	4 uL	1 uL		
IC 410-130493/6		8260C		4 uL	4 uL	3.2 uL	1 uL		
IC 410-130493/7		8260C		2 uL	2 uL	1.6 uL	1 uL		
IC 410-130493/8		8260C		4 uL	4 uL	3.2 uL	1 uL		
IC 410-130493/9		8260C					1 uL		
ICV 410-130493/11		8260C					1 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00002	MSV_LCS_VOC#1 00002	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005	MSV_V_ETOH 00012
BFB 410-130493/1		8260C						1 uL	
IC 410-130493/3		8260C							30 uL
IC 410-130493/4		8260C							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.: 410-57303-1

SDG No.:

Batch Number: 130493 Batch Start Date: 05/25/21 14:32 Batch Analyst: Riehl, Chelsea

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00002	MSV_LCS_VOC#1 00002	MSV_Q_ETOH 00009	MSV_QCYC 00005	MSV_V_BFB 00005	MSV_V_ETOH 00012
ICIS 410-130493/5		8260C							10 uL
IC 410-130493/6		8260C							16 uL
IC 410-130493/7		8260C							8 uL
IC 410-130493/8		8260C							20 uL
IC 410-130493/9		8260C							
ICV 410-130493/11		8260C		50 uL	50 uL	50 uL	50 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA2 00088	MSV_VCYC 00006				
BFB 410-130493/1		8260C							
IC 410-130493/3		8260C			30 uL				
IC 410-130493/4		8260C			10 uL				
ICIS 410-130493/5		8260C			10 uL				
IC 410-130493/6		8260C		4 uL	16 uL				
IC 410-130493/7		8260C		2 uL	8 uL				
IC 410-130493/8		8260C		12 uL	32 uL				
IC 410-130493/9		8260C							
ICV 410-130493/11		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.: 410-57303-1

SDG No.:

Batch Number: 181168 Batch Start Date: 10/11/21 08:30 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 410-181168/1		8260C		1 uL	1 uL				
CCVIS 410-181168/3		8260C		5 mL	5 mL				2608
LCS 410-181168/4		8260C		5 mL	5 mL				2608
MB 410-181168/6		8260C		5 mL	5 mL				2608
410-57303-C-12	FB-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-A-21	TripBlank-20210930	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-3	MW-10D-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-3 MS	MW-10D-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-3 MSD	MW-10D-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-1	MW-1-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-2	MW-10S-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-4	MW-8S-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-5	MW-8D-20210928	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-6	MW-7S-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-7	MW-7D-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-8	MW-14S-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-9	MW-14D-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-10	MW-12S-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-11	MW-12D-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-13	MW-11S-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-14	MW-11D-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-15	MW-4S-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-16	MW-4D-20210929	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-17	MW-3-20210930	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-18	MW-13S-20210930	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-19	MW-13D-20210930	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-57303-C-20	DUP-20210930	8260C	T	5 mL	5 mL	<2 SU	N	N	

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.: 410-57303-1

SDG No.:

Batch Number: 181168 Batch Start Date: 10/11/21 08:30 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00023	MSV_CCV_GASES 00085	MSV_CCV_VOC#1 00025	MSV_CCV_VOC#3 00024	MSV_HP18_ISSS 00020	MSV_LCS_2CEVE 00024
BFB 410-181168/1		8260C							
CCVIS 410-181168/3		8260C		5 uL	2.5 uL	5 uL	4 uL	1 uL	
LCS 410-181168/4		8260C						1 uL	50 uL
MB 410-181168/6		8260C						1 uL	
410-57303-C-12	FB-20210929	8260C	T					1 uL	
410-57303-A-21	TripBlank-20210930	8260C	T					1 uL	
410-57303-C-3	MW-10D-20210928	8260C	T					1 uL	
410-57303-C-3 MS	MW-10D-20210928	8260C	T					1 uL	21.5 uL
410-57303-C-3 MSD	MW-10D-20210928	8260C	T					1 uL	21.5 uL
410-57303-C-1	MW-1-20210928	8260C	T					1 uL	
410-57303-C-2	MW-10S-20210928	8260C	T					1 uL	
410-57303-C-4	MW-8S-20210928	8260C	T					1 uL	
410-57303-C-5	MW-8D-20210928	8260C	T					1 uL	
410-57303-C-6	MW-7S-20210929	8260C	T					1 uL	
410-57303-C-7	MW-7D-20210929	8260C	T					1 uL	
410-57303-C-8	MW-14S-20210929	8260C	T					1 uL	
410-57303-C-9	MW-14D-20210929	8260C	T					1 uL	
410-57303-C-10	MW-12S-20210929	8260C	T					1 uL	
410-57303-C-11	MW-12D-20210929	8260C	T					1 uL	
410-57303-C-13	MW-11S-20210929	8260C	T					1 uL	
410-57303-C-14	MW-11D-20210929	8260C	T					1 uL	
410-57303-C-15	MW-4S-20210929	8260C	T					1 uL	
410-57303-C-16	MW-4D-20210929	8260C	T					1 uL	
410-57303-C-17	MW-3-20210930	8260C	T					1 uL	
410-57303-C-18	MW-13S-20210930	8260C	T					1 uL	
410-57303-C-19	MW-13D-20210930	8260C	T					1 uL	
410-57303-C-20	DUP-20210930	8260C	T					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.: 410-57303-1

SDG No.:

Batch Number: 181168 Batch Start Date: 10/11/21 08:30 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00024	MSV_LCS_Gases 00041	MSV_LCS_VOC#1 00022	MSV_Q_ETOH 00009	MSV_QCYC 00006	MSV_V_BFB 00006
BFB 410-181168/1		8260C							1 uL
CCVIS 410-181168/3		8260C							
LCS 410-181168/4		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-181168/6		8260C							
410-57303-C-12	FB-20210929	8260C	T						
410-57303-A-21	TripBlank-20210930	8260C	T						
410-57303-C-3	MW-10D-20210928	8260C	T						
410-57303-C-3 MS	MW-10D-20210928	8260C	T	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	
410-57303-C-3 MSD	MW-10D-20210928	8260C	T	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	
410-57303-C-1	MW-1-20210928	8260C	T						
410-57303-C-2	MW-10S-20210928	8260C	T						
410-57303-C-4	MW-8S-20210928	8260C	T						
410-57303-C-5	MW-8D-20210928	8260C	T						
410-57303-C-6	MW-7S-20210929	8260C	T						
410-57303-C-7	MW-7D-20210929	8260C	T						
410-57303-C-8	MW-14S-20210929	8260C	T						
410-57303-C-9	MW-14D-20210929	8260C	T						
410-57303-C-10	MW-12S-20210929	8260C	T						
410-57303-C-11	MW-12D-20210929	8260C	T						
410-57303-C-13	MW-11S-20210929	8260C	T						
410-57303-C-14	MW-11D-20210929	8260C	T						
410-57303-C-15	MW-4S-20210929	8260C	T						
410-57303-C-16	MW-4D-20210929	8260C	T						
410-57303-C-17	MW-3-20210930	8260C	T						
410-57303-C-18	MW-13S-20210930	8260C	T						
410-57303-C-19	MW-13D-20210930	8260C	T						
410-57303-C-20	DUP-20210930	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.: 410-57303-1

SDG No.:

Batch Number: 181168 Batch Start Date: 10/11/21 08:30 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 00007				
BFB 410-181168/1		8260C							
CCVIS 410-181168/3		8260C		10 uL	10 uL				
LCS 410-181168/4		8260C							
MB 410-181168/6		8260C							
410-57303-C-12	FB-20210929	8260C	T						
410-57303-A-21	TripBlank-20210930	8260C	T						
410-57303-C-3	MW-10D-20210928	8260C	T						
410-57303-C-3 MS	MW-10D-20210928	8260C	T						
410-57303-C-3 MSD	MW-10D-20210928	8260C	T						
410-57303-C-1	MW-1-20210928	8260C	T						
410-57303-C-2	MW-10S-20210928	8260C	T						
410-57303-C-4	MW-8S-20210928	8260C	T						
410-57303-C-5	MW-8D-20210928	8260C	T						
410-57303-C-6	MW-7S-20210929	8260C	T						
410-57303-C-7	MW-7D-20210929	8260C	T						
410-57303-C-8	MW-14S-20210929	8260C	T						
410-57303-C-9	MW-14D-20210929	8260C	T						
410-57303-C-10	MW-12S-20210929	8260C	T						
410-57303-C-11	MW-12D-20210929	8260C	T						
410-57303-C-13	MW-11S-20210929	8260C	T						
410-57303-C-14	MW-11D-20210929	8260C	T						
410-57303-C-15	MW-4S-20210929	8260C	T						
410-57303-C-16	MW-4D-20210929	8260C	T						
410-57303-C-17	MW-3-20210930	8260C	T						
410-57303-C-18	MW-13S-20210930	8260C	T						
410-57303-C-19	MW-13D-20210930	8260C	T						
410-57303-C-20	DUP-20210930	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.: 410-57303-1

SDG No.:

Batch Number: 181168 Batch Start Date: 10/11/21 08:30 Batch Analyst: Pape, Linda C

Batch Method: 8260C Batch End Date:

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.: 410-57303-1

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-1-20210928	410-57303-1	81	108	74
MW-1-20210928 RE	410-57303-1 RE	80	85	85
MW-10S-20210928	410-57303-2	85	106	85
MW-10S-20210928 RE	410-57303-2 RE	77	84	78
MW-10D-20210928	410-57303-3	70	92	67
MW-10D-20210928 RE	410-57303-3 RE	80	97	69
MW-8S-20210928	410-57303-4	83	107	85
MW-8D-20210928	410-57303-5	78	99	75
MW-7S-20210929	410-57303-6	77	104	76
MW-7D-20210929	410-57303-7	75	97	80
MW-14S-20210929	410-57303-8	78	104	83
MW-14S-20210929 RE	410-57303-8 RE	75	96	85
MW-14D-20210929	410-57303-9	71	93	46
MW-12S-20210929	410-57303-10	62	80	53
MW-12D-20210929	410-57303-11	67	83	43
FB-20210929	410-57303-12	81	98	85
MW-11S-20210929	410-57303-13	13 S1-	17 S1-	12
MW-11S-20210929 RE	410-57303-13 RE	68	85	67
MW-11D-20210929	410-57303-14	79	97	58
MW-4S-20210929	410-57303-15	79	96	78
MW-4S-20210929 DL	410-57303-15 DL	83	100	73
MW-4S-20210929 RE	410-57303-15 RE	79	109	77
MW-4D-20210929	410-57303-16	70	84	45
MW-3-20210930	410-57303-17	75	88	85
MW-3-20210930 DL	410-57303-17 DL	84	91	89
MW-3-20210930 DL2	410-57303-17 DL2	83	90	87
MW-13S-20210930	410-57303-18	81	87	81
MW-13S-20210930 DL	410-57303-18 DL	87	91	82
MW-13D-20210930	410-57303-19	86	87	85
DUP-20210930	410-57303-20	83	89	87
DUP-20210930 DL	410-57303-20 DL	97	104	80
	MB 410-178578/1-A	75	97	84
	MB 410-179899/1-A	85	91	91

	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.: 410-57303-1

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 410-181417/1-A	69	85	76
	LCS 410-178578/2-A	86	101	93
	LCS 410-179899/2-A	76	87	90
	LCS 410-181417/2-A	87	97	92
	LCSD 410-179899/3-A	72	79	86
MW-10D-20210928 MS	410-57303-3 MS	93	104	78
MW-10D-20210928 MS RE	410-57303-3 MS RE	74	84	67
MW-10D-20210928 MSD	410-57303-3 MSD	84	98	78
MW-10D-20210928 MSD RE	410-57303-3 MSD RE	79	86	80

	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MJ0503.D

Lab ID: LCS 410-178578/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.744	74	42-120	
Acenaphthylene	1.00	0.777	78	49-120	
Anthracene	1.00	0.871	87	54-121	
Benzo[a]anthracene	1.00	0.828	83	61-122	
Benzo[a]pyrene	1.00	0.914	91	60-120	
Benzo[b]fluoranthene	1.00	0.802	80	58-122	
Benzo[g,h,i]perylene	1.00	0.827	83	50-120	
Benzo[k]fluoranthene	1.00	0.870	87	57-128	
Chrysene	1.00	0.822	82	55-123	
Dibenz(a,h)anthracene	1.00	0.876	88	50-121	
Fluoranthene	1.00	0.888	89	61-123	
Fluorene	1.00	0.775	77	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.21	121	47-143	
Naphthalene	1.00	0.747	75	20-120	
Phenanthrene	1.00	0.793	79	59-120	
Pyrene	1.00	0.741	74	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NJ0763.D

Lab ID: LCS 410-179899/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.767	77	42-120	
Acenaphthylene	1.00	0.825	82	49-120	
Anthracene	1.00	0.864	86	54-121	
Benzo[a]anthracene	1.00	0.864	86	61-122	
Benzo[a]pyrene	1.00	0.933	93	60-120	
Benzo[b]fluoranthene	1.00	0.848	85	58-122	
Benzo[g,h,i]perylene	1.00	1.05	105	50-120	
Benzo[k]fluoranthene	1.00	0.921	92	57-128	
Chrysene	1.00	0.885	89	55-123	
Dibenz(a,h)anthracene	1.00	1.14	114	50-121	
Fluoranthene	1.00	0.826	83	61-123	
Fluorene	1.00	0.770	77	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.09	109	47-143	
Naphthalene	1.00	0.710	71	20-120	
Phenanthrene	1.00	0.818	82	59-120	
Pyrene	1.00	0.898	90	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MJ0713.D

Lab ID: LCS 410-181417/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.738	74	42-120	
Acenaphthylene	1.00	0.761	76	49-120	
Anthracene	1.00	0.800	80	54-121	
Benzo[a]anthracene	1.00	0.770	77	61-122	
Benzo[a]pyrene	1.00	0.872	87	60-120	
Benzo[b]fluoranthene	1.00	0.757	76	58-122	
Benzo[g,h,i]perylene	1.00	0.844	84	50-120	
Benzo[k]fluoranthene	1.00	0.874	87	57-128	
Chrysene	1.00	0.827	83	55-123	
Dibenz(a,h)anthracene	1.00	0.860	86	50-121	
Fluoranthene	1.00	0.841	84	61-123	
Fluorene	1.00	0.761	76	55-120	
Indeno[1,2,3-cd]pyrene	1.00	0.813	81	47-143	
Naphthalene	1.00	0.720	72	20-120	
Phenanthrene	1.00	0.814	81	59-120	
Pyrene	1.00	0.759	76	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 DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NJ0764.D

Lab ID: LCSD 410-179899/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.00	0.763	76	1	30	42-120	
Acenaphthylene	1.00	0.812	81	2	30	49-120	
Anthracene	1.00	0.816	82	6	30	54-121	
Benzo[a]anthracene	1.00	0.871	87	1	30	61-122	
Benzo[a]pyrene	1.00	0.901	90	4	30	60-120	
Benzo[b]fluoranthene	1.00	0.851	85	0	30	58-122	
Benzo[g,h,i]perylene	1.00	0.994	99	6	30	50-120	
Benzo[k]fluoranthene	1.00	0.859	86	7	30	57-128	
Chrysene	1.00	0.855	86	3	30	55-123	
Dibenz(a,h)anthracene	1.00	1.03	103	10	30	50-121	
Fluoranthene	1.00	0.754	75	9	30	61-123	
Fluorene	1.00	0.761	76	1	30	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.03	103	5	30	47-143	
Naphthalene	1.00	0.694	69	2	30	20-120	
Phenanthrene	1.00	0.796	80	3	30	59-120	
Pyrene	1.00	0.839	84	7	30	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MJ0513.D

Lab ID: 410-57303-3 MS Client ID: MW-10D-20210928 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	1.04	ND	0.796	77	42-120	
Acenaphthylene	1.04	ND	0.833	80	49-120	
Anthracene	1.04	ND	0.935	90	54-121	
Benzo[a]anthracene	1.04	ND	0.838	81	61-122	
Benzo[a]pyrene	1.04	ND	0.804	78	60-120	
Benzo[b]fluoranthene	1.04	ND	0.716	69	58-122	
Benzo[g,h,i]perylene	1.04	ND	0.616	59	50-120	
Benzo[k]fluoranthene	1.04	ND	0.893	86	57-128	
Chrysene	1.04	ND	0.857	83	55-123	
Dibenz(a,h)anthracene	1.04	ND	0.789	76	50-121	
Fluoranthene	1.04	ND	0.951	92	61-123	
Fluorene	1.04	ND	0.826	80	55-120	
Indeno[1,2,3-cd]pyrene	1.04	ND	1.02	99	47-143	
Naphthalene	1.04	0.052 J	0.844	77	20-120	
Phenanthrene	1.04	ND	0.822	79	59-120	
Pyrene	1.04	ND	0.787	76	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MJ0716.D

Lab ID: 410-57303-3 MS RE Client ID: MW-10D-20210928 MS RE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	1.02	ND	0.677	66	42-120	H
Acenaphthylene	1.02	ND	0.694	68	49-120	H
Anthracene	1.02	ND	0.685	67	54-121	H
Benzo[a]anthracene	1.02	ND	0.703	69	61-122	H
Benzo[a]pyrene	1.02	ND	0.675	66	60-120	H
Benzo[b]fluoranthene	1.02	ND	0.633	62	58-122	H
Benzo[g,h,i]perylene	1.02	ND	0.558	54	50-120	H
Benzo[k]fluoranthene	1.02	ND	0.729	71	57-128	H
Chrysene	1.02	ND	0.732	72	55-123	H
Dibenz(a,h)anthracene	1.02	ND	0.652	64	50-121	H
Fluoranthene	1.02	ND	0.757	74	61-123	H
Fluorene	1.02	ND	0.687	67	55-120	H
Indeno[1,2,3-cd]pyrene	1.02	ND	0.582	57	47-143	H
Naphthalene	1.02	ND	0.662	65	20-120	H
Phenanthrene	1.02	ND	0.761	74	59-120	H
Pyrene	1.02	0.011 J	0.708	68	46-122	H

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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MJ0514.D

Lab ID: 410-57303-3 MSD Client ID: MW-10D-20210928 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.05	0.738	70	8	30	42-120	
Acenaphthylene	1.05	0.770	73	8	30	49-120	
Anthracene	1.05	0.870	83	7	30	54-121	
Benzo[a]anthracene	1.05	0.841	80	0	30	61-122	
Benzo[a]pyrene	1.05	0.808	77	0	30	60-120	
Benzo[b]fluoranthene	1.05	0.709	67	1	30	58-122	
Benzo[g,h,i]perylene	1.05	0.593	56	4	30	50-120	
Benzo[k]fluoranthene	1.05	0.896	85	0	30	57-128	
Chrysene	1.05	0.827	79	4	30	55-123	
Dibenz(a,h)anthracene	1.05	0.760	72	4	30	50-121	
Fluoranthene	1.05	0.899	85	6	30	61-123	
Fluorene	1.05	0.768	73	7	30	55-120	
Indeno[1,2,3-cd]pyrene	1.05	0.981	93	4	30	47-143	
Naphthalene	1.05	0.761	67	10	30	20-120	
Phenanthrene	1.05	0.762	72	8	30	59-120	
Pyrene	1.05	0.751	71	5	30	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 Env, LLC Job No.: 410-57303-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MJ0717.D

Lab ID: 410-57303-3 MSD RE Client ID: MW-10D-20210928 MSD RE

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.05	0.771	73	13	30	42-120	H
Acenaphthylene	1.05	0.817	78	16	30	49-120	H
Anthracene	1.05	0.766	73	11	30	54-121	H
Benzo[a]anthracene	1.05	0.847	80	19	30	61-122	H
Benzo[a]pyrene	1.05	0.822	78	20	30	60-120	H
Benzo[b]fluoranthene	1.05	0.757	72	18	30	58-122	H
Benzo[g,h,i]perylene	1.05	0.636	60	13	30	50-120	H
Benzo[k]fluoranthene	1.05	0.866	82	17	30	57-128	H
Chrysene	1.05	0.854	81	15	30	55-123	H
Dibenz(a,h)anthracene	1.05	0.767	73	16	30	50-121	H
Fluoranthene	1.05	0.881	84	15	30	61-123	H
Fluorene	1.05	0.800	76	15	30	55-120	H
Indeno[1,2,3-cd]pyrene	1.05	0.675	64	15	30	47-143	H
Naphthalene	1.05	0.782	74	17	30	20-120	H
Phenanthrene	1.05	0.830	79	9	30	59-120	H
Pyrene	1.05	0.837	78	17	30	46-122	H

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.: 410-57303-1

SDG No.:

Lab File ID: MJ0502.D Lab Sample ID: MB 410-178578/1-A

Matrix: Water Date Extracted: 10/04/2021 17:05

Instrument ID: HP21585 Date Analyzed: 10/07/2021 09:43

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-178578/2-A	MJ0503.D	10/07/2021 10:12
MW-10D-20210928	410-57303-3	MJ0512.D	10/07/2021 15:09
MW-10D-20210928 MS	410-57303-3 MS	MJ0513.D	10/07/2021 16:08
MW-10D-20210928 MSD	410-57303-3 MSD	MJ0514.D	10/07/2021 16:38
MW-1-20210928	410-57303-1	MJ0515.D	10/07/2021 18:07
MW-10S-20210928	410-57303-2	MJ0516.D	10/07/2021 18:37
MW-8S-20210928	410-57303-4	MJ0517.D	10/07/2021 19:06
MW-8D-20210928	410-57303-5	MJ0518.D	10/07/2021 19:36
MW-7S-20210929	410-57303-6	MJ0519.D	10/07/2021 20:06
MW-7D-20210929	410-57303-7	MJ0580.D	10/08/2021 13:22
MW-14S-20210929	410-57303-8	MJ0581.D	10/08/2021 13:51
MW-14D-20210929	410-57303-9	MJ0582.D	10/08/2021 14:21
MW-12S-20210929	410-57303-10	MJ0583.D	10/08/2021 14:51
MW-12D-20210929	410-57303-11	MJ0584.D	10/08/2021 15:21
FB-20210929	410-57303-12	MJ0585.D	10/08/2021 15:50
MW-11S-20210929	410-57303-13	MJ0586.D	10/08/2021 16:20
MW-11D-20210929	410-57303-14	MJ0587.D	10/08/2021 16:50
MW-4S-20210929	410-57303-15	MJ0588.D	10/08/2021 17:19
MW-4S-20210929 DL	410-57303-15 DL	MJ0589.D	10/08/2021 17:49
MW-4D-20210929	410-57303-16	MJ0624.D	10/10/2021 00:20

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab File ID: NJ0762.D Lab Sample ID: MB 410-179899/1-A

Matrix: Water Date Extracted: 10/07/2021 09:17

Instrument ID: HP23263 Date Analyzed: 10/11/2021 09:59

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-179899/2-A	NJ0763.D	10/11/2021 10:29
	LCSD 410-179899/3-A	NJ0764.D	10/11/2021 11:00
MW-3-20210930	410-57303-17	NJ0782.D	10/11/2021 20:06
MW-13S-20210930	410-57303-18	NJ0783.D	10/11/2021 20:36
MW-13D-20210930	410-57303-19	NJ0784.D	10/11/2021 21:07
MW-3-20210930 DL	410-57303-17 DL	NJ0804.D	10/12/2021 07:42
MW-3-20210930 DL2	410-57303-17 DL2	NJ0805.D	10/12/2021 08:12
MW-13S-20210930 DL	410-57303-18 DL	NJ0806.D	10/12/2021 08:42
DUP-20210930	410-57303-20	NJ0807.D	10/12/2021 09:13
DUP-20210930 DL	410-57303-20 DL	NJ0855.D	10/13/2021 10:47

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab File ID: MJ0712.D Lab Sample ID: MB 410-181417/1-A

Matrix: Water Date Extracted: 10/11/2021 18:05

Instrument ID: HP21585 Date Analyzed: 10/12/2021 09:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-181417/2-A	MJ0713.D	10/12/2021 09:31
MW-10D-20210928 RE	410-57303-3 RE	MJ0715.D	10/12/2021 10:31
MW-10D-20210928 MS RE	410-57303-3 MS RE	MJ0716.D	10/12/2021 11:01
MW-10D-20210928 MSD RE	410-57303-3 MSD RE	MJ0717.D	10/12/2021 11:31
MW-1-20210928 RE	410-57303-1 RE	MJ0718.D	10/12/2021 12:00
MW-10S-20210928 RE	410-57303-2 RE	MJ0719.D	10/12/2021 12:30
MW-14S-20210929 RE	410-57303-8 RE	MJ0720.D	10/12/2021 13:00
MW-11S-20210929 RE	410-57303-13 RE	MJ0721.D	10/12/2021 13:30
MW-4S-20210929 RE	410-57303-15 RE	MJ0722.D	10/12/2021 13:59

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: MH1150.D DFTPP Injection Date: 08/20/2021

Instrument ID: HP21585 DFTPP Injection Time: 05:06

Analysis Batch No.: 162682

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	62.3	
68	Less than 2% of mass 69	1.0	(1.6) 1
69	Mass 69 Relative abundance	62.6	
70	Less than 2% of mass 69	0.3	(0.6) 1
127	10-80% of Base Peak	54.6	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	21.1	
365	Greater than 1% of mass 198	2.3	
441	present but less than 24% of mass 442	9.2	(15.0) 2
442	Greater than 50% of mass 198	61.3	
443	15-24% of mass 442	11.2	(18.2) 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
	ICIS 410-162682/2	MH1151.D	08/20/2021	6:11
	IC 410-162682/3	MH1152.D	08/20/2021	7:09
	IC 410-162682/4	MH1153.D	08/20/2021	7:39
	IC 410-162682/5	MH1154.D	08/20/2021	8:09
	IC 410-162682/6	MH1155.D	08/20/2021	8:38
	IC 410-162682/7	MH1156.D	08/20/2021	9:08
	ICV 410-162682/9	MH1158.D	08/20/2021	10:08
	ICV 410-162682/10	MH1159.D	08/20/2021	10:37
	ICV 410-162682/11	MH1160.D	08/20/2021	11:07

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: MJ0500.D DFTPP Injection Date: 10/07/2021

Instrument ID: HP21585 DFTPP Injection Time: 08:34

Analysis Batch No.: 179971

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	61.6	
68	Less than 2% of mass 69	0.9	(1.4) 1
69	Mass 69 Relative abundance	67.8	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	61.2	
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	24.3	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	9.9	(15.0) 2
442	Greater than 50% of mass 198	65.6	
443	15-24% of mass 442	12.6	(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 410-179971/2	MJ0501.D	10/07/2021	8:55
	MB 410-178578/1-A	MJ0502.D	10/07/2021	9:43
	LCS 410-178578/2-A	MJ0503.D	10/07/2021	10:12
MW-10D-20210928	410-57303-3	MJ0512.D	10/07/2021	15:09
MW-10D-20210928 MS	410-57303-3 MS	MJ0513.D	10/07/2021	16:08
MW-10D-20210928 MSD	410-57303-3 MSD	MJ0514.D	10/07/2021	16:38
MW-1-20210928	410-57303-1	MJ0515.D	10/07/2021	18:07
MW-10S-20210928	410-57303-2	MJ0516.D	10/07/2021	18:37
MW-8S-20210928	410-57303-4	MJ0517.D	10/07/2021	19:06
MW-8D-20210928	410-57303-5	MJ0518.D	10/07/2021	19:36
MW-7S-20210929	410-57303-6	MJ0519.D	10/07/2021	20:06

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: MJ0560.D DFTPP Injection Date: 10/08/2021

Instrument ID: HP21585 DFTPP Injection Time: 05:52

Analysis Batch No.: 180407

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	63.7	
68	Less than 2% of mass 69	1.0	(1.4) 1
69	Mass 69 Relative abundance	69.2	
70	Less than 2% of mass 69	0.3	(0.4) 1
127	10-80% of Base Peak	62.0	
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	23.8	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	9.7	(15.2) 2
442	Greater than 50% of mass 198	63.7	
443	15-24% of mass 442	12.3	(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 410-180407/2	MJ0561.D	10/08/2021	6:11
MW-7D-20210929	410-57303-7	MJ0580.D	10/08/2021	13:22
MW-14S-20210929	410-57303-8	MJ0581.D	10/08/2021	13:51
MW-14D-20210929	410-57303-9	MJ0582.D	10/08/2021	14:21
MW-12S-20210929	410-57303-10	MJ0583.D	10/08/2021	14:51
MW-12D-20210929	410-57303-11	MJ0584.D	10/08/2021	15:21
FB-20210929	410-57303-12	MJ0585.D	10/08/2021	15:50
MW-11S-20210929	410-57303-13	MJ0586.D	10/08/2021	16:20
MW-11D-20210929	410-57303-14	MJ0587.D	10/08/2021	16:50
MW-4S-20210929	410-57303-15	MJ0588.D	10/08/2021	17:19
MW-4S-20210929 DL	410-57303-15 DL	MJ0589.D	10/08/2021	17:49

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: MJ0600a.D DFTPP Injection Date: 10/09/2021

Instrument ID: HP21585 DFTPP Injection Time: 20:49

Analysis Batch No.: 180937

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	64.1	
68	Less than 2% of mass 69	1.0	(1.4) 1
69	Mass 69 Relative abundance	69.8	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	61.1	
197	Less than 2% of mass 198	0.4	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	24.3	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	10.3	(15.2) 2
442	Greater than 50% of mass 198	67.4	
443	15-24% of mass 442	13.1	(19.4) 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 410-180937/2	MJ0601a.D	10/09/2021	21:15
MW-4D-20210929	410-57303-16	MJ0624.D	10/10/2021	0:20

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: MJ0710.D DFTPP Injection Date: 10/12/2021

Instrument ID: HP21585 DFTPP Injection Time: 08:13

Analysis Batch No.: 181586

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	72.4	
68	Less than 2% of mass 69	1.1	(1.4) 1
69	Mass 69 Relative abundance	76.0	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	63.2	
197	Less than 2% of mass 198	0.8	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	24.1	
365	Greater than 1% of mass 198	3.4	
441	present but less than 24% of mass 442	9.7	(15.1) 2
442	Greater than 50% of mass 198	64.3	
443	15-24% of mass 442	12.6	(19.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-181586/2	MJ0711.D	10/12/2021	8:28
	MB 410-181417/1-A	MJ0712.D	10/12/2021	9:02
	LCS 410-181417/2-A	MJ0713.D	10/12/2021	9:31
MW-10D-20210928 RE	410-57303-3 RE	MJ0715.D	10/12/2021	10:31
MW-10D-20210928 MS RE	410-57303-3 MS RE	MJ0716.D	10/12/2021	11:01
MW-10D-20210928 MSD RE	410-57303-3 MSD RE	MJ0717.D	10/12/2021	11:31
MW-1-20210928 RE	410-57303-1 RE	MJ0718.D	10/12/2021	12:00
MW-10S-20210928 RE	410-57303-2 RE	MJ0719.D	10/12/2021	12:30
MW-14S-20210929 RE	410-57303-8 RE	MJ0720.D	10/12/2021	13:00
MW-11S-20210929 RE	410-57303-13 RE	MJ0721.D	10/12/2021	13:30
MW-4S-20210929 RE	410-57303-15 RE	MJ0722.D	10/12/2021	13:59

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: NJ0600.D DFTPP Injection Date: 10/08/2021

Instrument ID: HP23263 DFTPP Injection Time: 03:58

Analysis Batch No.: 180399

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	55.2	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	90.1	
70	Less than 2% of mass 69	0.5	(0.6) 1
127	10-80% of Base Peak	70.5	
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	26.3	
365	Greater than 1% of mass 198	5.8	
441	present but less than 24% of mass 442	15.1	(16.1) 2
442	Greater than 50% of mass 198	93.8	
443	15-24% of mass 442	18.8	(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
	ICIS 410-180399/2	NJ0601.D	10/08/2021	4:21
	IC 410-180399/3	NJ0602.D	10/08/2021	4:56
	IC 410-180399/4	NJ0603.D	10/08/2021	5:26
	IC 410-180399/5	NJ0604.D	10/08/2021	5:56
	IC 410-180399/6	NJ0605.D	10/08/2021	6:26
	IC 410-180399/7	NJ0606.D	10/08/2021	6:57
	ICV 410-180399/9	NJ0608.D	10/08/2021	7:57
	ICV 410-180399/10	NJ0609.D	10/08/2021	8:27
	ICV 410-180399/11	NJ0610.D	10/08/2021	8:57

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: NJ0760.D DFTPP Injection Date: 10/11/2021

Instrument ID: HP23263 DFTPP Injection Time: 09:07

Analysis Batch No.: 181246

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	46.7	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	79.8	
70	Less than 2% of mass 69	0.5	(0.6) 1
127	10-80% of Base Peak	65.7	
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	25.9	
365	Greater than 1% of mass 198	5.4	
441	present but less than 24% of mass 442	14.3	(16.1) 2
442	Greater than 50% of mass 198	88.6	
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 410-181246/2	NJ0761.D	10/11/2021	9:26
	MB 410-179899/1-A	NJ0762.D	10/11/2021	9:59
	LCS 410-179899/2-A	NJ0763.D	10/11/2021	10:29
	LCSD 410-179899/3-A	NJ0764.D	10/11/2021	11:00
MW-3-20210930	410-57303-17	NJ0782.D	10/11/2021	20:06
MW-13S-20210930	410-57303-18	NJ0783.D	10/11/2021	20:36
MW-13D-20210930	410-57303-19	NJ0784.D	10/11/2021	21:07

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: NJ0800.D DFTPP Injection Date: 10/12/2021

Instrument ID: HP23263 DFTPP Injection Time: 05:50

Analysis Batch No.: 181545

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	48.1	
68	Less than 2% of mass 69	1.4	(1.6) 1
69	Mass 69 Relative abundance	82.1	
70	Less than 2% of mass 69	0.5	(0.6) 1
127	10-80% of Base Peak	67.6	
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	25.2	
365	Greater than 1% of mass 198	5.4	
441	present but less than 24% of mass 442	14.0	(16.4) 2
442	Greater than 50% of mass 198	85.2	
443	15-24% of mass 442	16.7	(19.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-181545/2	NJ0801.D	10/12/2021	6:08
MW-3-20210930 DL	410-57303-17 DL	NJ0804.D	10/12/2021	7:42
MW-3-20210930 DL2	410-57303-17 DL2	NJ0805.D	10/12/2021	8:12
MW-13S-20210930 DL	410-57303-18 DL	NJ0806.D	10/12/2021	8:42
DUP-20210930	410-57303-20	NJ0807.D	10/12/2021	9:13

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Lab File ID: NJ0850.D DFTPP Injection Date: 10/13/2021

Instrument ID: HP23263 DFTPP Injection Time: 08:15

Analysis Batch No.: 182120

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	42.4	
68	Less than 2% of mass 69	0.7	(1.0) 1
69	Mass 69 Relative abundance	70.5	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	58.4	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.3	
275	10-60% of Base Peak	25.5	
365	Greater than 1% of mass 198	5.4	
441	present but less than 24% of mass 442	15.2	(16.1) 2
442	Greater than 50% of mass 198	94.6	
443	15-24% of mass 442	19.1	(20.1) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-182120/2	NJ0851.D	10/13/2021	8:35
DUP-20210930 DL	410-57303-20 DL	NJ0855.D	10/13/2021	10:47

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: ICIS 410-162682/2 Date Analyzed: 08/20/2021 06:11

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MH1151.D Heated Purge: (Y/N) N

Calibration ID: 29914

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		112248	7.49	381731	9.40	179773	12.11
UPPER LIMIT		224496	7.99	763462	9.90	359546	12.61
LOWER LIMIT		56124	6.99	190866	8.90	89887	11.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-162682/9		119501	7.49	400368	9.40	191178	12.11
ICV 410-162682/10		155584	7.38	389250	9.40	185371	12.11
ICV 410-162682/11		125272	7.49	413827	9.40	201237	12.11
CCVIS 410-179971/2		62488	7.34	228799	9.24	120249	11.99
CCVIS 410-180407/2		58887	7.32	219483	9.22	113979	11.97
CCVIS 410-180937/2		60901	7.34	214813	9.24	110677	11.98
CCVIS 410-181586/2		68458	7.34	250007	9.24	130452	11.98

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.: 410-57303-1

SDG No.:

Sample No.: ICIS 410-162682/2 Date Analyzed: 08/20/2021 06:11

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MH1151.D Heated Purge: (Y/N) N

Calibration ID: 29914

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		305411	14.04	268442	18.26	265388	20.77
UPPER LIMIT		610822	14.54	536884	18.76	530776	21.27
LOWER LIMIT		152706	13.54	134221	17.76	132694	20.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-162682/9		318816	14.03	265306	18.26	249626	20.76
ICV 410-162682/10		326511	14.03	266580	18.26	265436	20.76
ICV 410-162682/11		333497	14.03	295946	18.26	278501	20.77
CCVIS 410-179971/2		207154	13.89	213390	18.06	233115	20.57
CCVIS 410-180407/2		194649	13.87	195005	18.04	204596	20.55
CCVIS 410-180937/2		187774	13.88	166051	18.05	180307	20.56
CCVIS 410-181586/2		223244	13.88	213785	18.06	227922	20.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-179971/2 Date Analyzed: 10/07/2021 08:55

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0501.D Heated Purge: (Y/N) N

Calibration ID: 29914

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		62488	7.34	228799	9.24	120249	11.99
UPPER LIMIT		124976	7.84	457598	9.74	240498	12.49
LOWER LIMIT		31244	6.84	114400	8.74	60125	11.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-178578/1-A		60412	7.32	206840	9.26	103373	11.99
LCS 410-178578/2-A		62865	7.32	209350	9.24	107434	11.98
410-57303-3	MW-10D-20210928	60107	7.32	203979	9.26	103351	11.99
410-57303-3 MS	MW-10D-20210928 MS	60793	7.32	199062	9.24	104221	11.98
410-57303-3 MSD	MW-10D-20210928 MSD	58769	7.32	193235	9.24	101079	11.98
410-57303-1	MW-1-20210928	59451	7.32	205776	9.24	109418	11.98
410-57303-2	MW-10S-20210928	60495	7.32	206847	9.24	107008	11.98
410-57303-4	MW-8S-20210928	59501	7.32	201167	9.26	102382	11.98
410-57303-5	MW-8D-20210928	63604	7.32	213992	9.26	108152	11.99
410-57303-6	MW-7S-20210929	60458	7.32	206565	9.24	102893	11.98

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-179971/2 Date Analyzed: 10/07/2021 08:55

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0501.D Heated Purge: (Y/N) N

Calibration ID: 29914

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		207154	13.89	213390	18.06	233115	20.57
UPPER LIMIT		414308	14.39	426780	18.56	466230	21.07
LOWER LIMIT		103577	13.39	106695	17.56	116558	20.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-178578/1-A		174752	13.90	174658	18.08	193417	20.58
LCS 410-178578/2-A		183517	13.89	186454	18.06	197127	20.57
410-57303-3	MW-10D-20210928	185268	13.90	182377	18.07	201193	20.58
410-57303-3 MS	MW-10D-20210928 MS	184015	13.89	188242	18.06	196475	20.57
410-57303-3 MSD	MW-10D-20210928 MSD	179139	13.89	183338	18.06	192083	20.57
410-57303-1	MW-1-20210928	143530	13.89	182076	18.06	200810	20.57
410-57303-2	MW-10S-20210928	188582	13.90	185284	18.07	200208	20.57
410-57303-4	MW-8S-20210928	177688	13.90	177430	18.07	193491	20.57
410-57303-5	MW-8D-20210928	193639	13.90	190226	18.07	207099	20.58
410-57303-6	MW-7S-20210929	159840	13.89	183080	18.06	194053	20.57

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-180407/2 Date Analyzed: 10/08/2021 06:11

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0561.D Heated Purge: (Y/N) N

Calibration ID: 29914

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		58887	7.32	219483	9.22	113979	11.97
UPPER LIMIT		117774	7.82	438966	9.72	227958	12.47
LOWER LIMIT		29444	6.82	109742	8.72	56990	11.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-7	MW-7D-20210929	63939	7.30	219829	9.24	108948	11.97
410-57303-8	MW-14S-20210929	58298	7.30	198290	9.24	98164	11.97
410-57303-9	MW-14D-20210929	59747	7.30	207940	9.24	101435	11.97
410-57303-10	MW-12S-20210929	60133	7.30	204974	9.24	101147	11.97
410-57303-11	MW-12D-20210929	63960	7.30	218595	9.24	109263	11.97
410-57303-12	FB-20210929	62351	7.30	213541	9.24	106799	11.97
410-57303-13	MW-11S-20210929	56032	7.32	198835	9.24	101556	11.97
410-57303-14	MW-11D-20210929	61564	7.30	212198	9.24	104577	11.97
410-57303-15	MW-4S-20210929	61418	7.30	211350	9.22	112453	11.97
410-57303-15 DL	MW-4S-20210929 DL	51348	7.32	184284	9.24	94142	11.97

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-180407/2 Date Analyzed: 10/08/2021 06:11

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0561.D Heated Purge: (Y/N) N

Calibration ID: 29914

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		194649	13.87	195005	18.04	204596	20.55
UPPER LIMIT		389298	14.37	390010	18.54	409192	21.05
LOWER LIMIT		97325	13.37	97503	17.54	102298	20.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-7	MW-7D-20210929	183252	13.88	178327	18.05	183894	20.56
410-57303-8	MW-14S-20210929	165158	13.88	163170	18.05	170655	20.56
410-57303-9	MW-14D-20210929	172981	13.88	166040	18.06	169938	20.56
410-57303-10	MW-12S-20210929	178327	13.87	171528	18.05	174931	20.56
410-57303-11	MW-12D-20210929	188795	13.88	178892	18.06	184522	20.56
410-57303-12	FB-20210929	172391	13.88	158586	18.06	173458	20.56
410-57303-13	MW-11S-20210929	169917	13.88	161576	18.05	159213	20.56
410-57303-14	MW-11D-20210929	176142	13.88	171356	18.06	176520	20.56
410-57303-15	MW-4S-20210929	188277	13.87	180515	18.05	182551	20.55
410-57303-15 DL	MW-4S-20210929 DL	156721	13.88	148288	18.06	148756	20.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-180937/2 Date Analyzed: 10/09/2021 21:15

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0601a.D Heated Purge: (Y/N) N

Calibration ID: 29914

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		60901	7.34	214813	9.24	110677	11.98
UPPER LIMIT		121802	7.84	429626	9.74	221354	12.48
LOWER LIMIT		30451	6.84	107407	8.74	55339	11.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-16	MW-4D-20210929	61704	7.34	219318	9.24	109656	11.98

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-180937/2 Date Analyzed: 10/09/2021 21:15

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0601a.D Heated Purge: (Y/N) N

Calibration ID: 29914

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		187774	13.88	166051	18.05	180307	20.56
UPPER LIMIT		375548	14.38	332102	18.55	360614	21.06
LOWER LIMIT		93887	13.38	83026	17.55	90154	20.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-16	MW-4D-20210929	194701	13.88	171795	18.06	179845	20.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181586/2 Date Analyzed: 10/12/2021 08:28

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0711.D Heated Purge: (Y/N) N

Calibration ID: 29914

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		68458	7.34	250007	9.24	130452	11.98
UPPER LIMIT		136916	7.84	500014	9.74	260904	12.48
LOWER LIMIT		34229	6.84	125004	8.74	65226	11.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-181417/1-A		62819	7.34	230138	9.26	113253	11.98
LCS 410-181417/2-A		61550	7.32	220376	9.24	111571	11.98
410-57303-3 RE	MW-10D-20210928 RE	62684	7.32	226410	9.24	113356	11.98
410-57303-3 MS RE	MW-10D-20210928 MS RE	65813	7.32	254113	9.24	118613	11.98
410-57303-3 MSD RE	MW-10D-20210928 MSD RE	64874	7.32	253171	9.24	114997	11.98
410-57303-1 RE	MW-1-20210928 RE	67337	7.32	244175	9.24	126824	11.98
410-57303-2 RE	MW-10S-20210928 RE	68741	7.32	253810	9.24	128710	11.98
410-57303-8 RE	MW-14S-20210929 RE	65373	7.32	238174	9.24	119590	11.98
410-57303-13 RE	MW-11S-20210929 RE	65291	7.32	242945	9.24	125767	11.98
410-57303-15 RE	MW-4S-20210929 RE	65260	7.32	245637	9.24	124736	11.98

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181586/2 Date Analyzed: 10/12/2021 08:28

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MJ0711.D Heated Purge: (Y/N) N

Calibration ID: 29914

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		223244	13.88	213785	18.06	227922	20.56
UPPER LIMIT		446488	14.38	427570	18.56	455844	21.06
LOWER LIMIT		111622	13.38	106893	17.56	113961	20.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-181417/1-A		187364	13.89	168326	18.07	179694	20.56
LCS 410-181417/2-A		189329	13.88	176793	18.06	181411	20.56
410-57303-3 RE	MW-10D-20210928 RE	190230	13.89	174135	18.06	187939	20.56
410-57303-3 MS RE	MW-10D-20210928 MS RE	199812	13.88	184557	18.06	193726	20.56
410-57303-3 MSD RE	MW-10D-20210928 MSD RE	193591	13.88	176095	18.06	188222	20.56
410-57303-1 RE	MW-1-20210928 RE	213927	13.88	194478	18.06	212319	20.56
410-57303-2 RE	MW-10S-20210928 RE	214292	13.88	192359	18.06	212813	20.56
410-57303-8 RE	MW-14S-20210929 RE	199778	13.88	181721	18.06	195460	20.56
410-57303-13 RE	MW-11S-20210929 RE	208231	13.88	188990	18.06	202646	20.56
410-57303-15 RE	MW-4S-20210929 RE	203024	13.88	188673	18.06	206346	20.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: ICIS 410-180399/2 Date Analyzed: 10/08/2021 04:21

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0601.D Heated Purge: (Y/N) N

Calibration ID: 31373

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		71530	6.31	218637	8.30	114928	11.17
UPPER LIMIT		143060	6.81	437274	8.80	229856	11.67
LOWER LIMIT		35765	5.81	109319	7.80	57464	10.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-180399/9		68466	6.31	212737	8.30	112334	11.16
ICV 410-180399/10		74637	6.31	232663	8.30	121880	11.16
ICV 410-180399/11		79116	6.33	252757	8.30	123486	11.16
CCVIS 410-181246/2		114970	6.27	354748	8.28	175819	11.14
CCVIS 410-181545/2		74405	6.27	243826	8.28	116839	11.14
CCVIS 410-182120/2		84152	6.27	276420	8.27	140295	11.12

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.: 410-57303-1

SDG No.:

Sample No.: ICIS 410-180399/2 Date Analyzed: 10/08/2021 04:21

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0601.D Heated Purge: (Y/N) N

Calibration ID: 31373

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		218624	13.08	179612	17.15	171547	19.63
UPPER LIMIT		437248	13.58	359224	17.65	343094	20.13
LOWER LIMIT		109312	12.58	89806	16.65	85774	19.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-180399/9		210862	13.09	159296	17.14	152298	19.62
ICV 410-180399/10		217626	13.09	160333	17.15	158632	19.62
ICV 410-180399/11		226580	13.09	167767	17.14	155264	19.62
CCVIS 410-181246/2		322690	13.06	246590	17.12	248329	19.60
CCVIS 410-181545/2		195042	13.06	145067	17.12	136466	19.60
CCVIS 410-182120/2		254988	13.05	195160	17.11	189735	19.57

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181246/2 Date Analyzed: 10/11/2021 09:26

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0761.D Heated Purge: (Y/N) N

Calibration ID: 31373

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		114970	6.27	354748	8.28	175819	11.14
UPPER LIMIT		229940	6.77	709496	8.78	351638	11.64
LOWER LIMIT		57485	5.77	177374	7.78	87910	10.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-179899/1-A		71893	6.27	222184	8.28	108768	11.14
LCS 410-179899/2-A		74182	6.28	228075	8.28	112454	11.14
LCSD 410-179899/3-A		74349	6.28	225222	8.28	108041	11.14
410-57303-17	MW-3-20210930	76281	6.28	277042	8.29	108056	11.14
410-57303-18	MW-13S-20210930	79399	6.28	258356	8.28	130474	11.14
410-57303-19	MW-13D-20210930	82895	6.28	258454	8.28	121993	11.14

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181246/2 Date Analyzed: 10/11/2021 09:26

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0761.D Heated Purge: (Y/N) N

Calibration ID: 31373

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		322690	13.06	246590	17.12	248329	19.60
UPPER LIMIT		645380	13.56	493180	17.62	496658	20.10
LOWER LIMIT		161345	12.56	123295	16.62	124165	19.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-179899/1-A		184878	13.06	134653	17.12	124930	19.59
LCS 410-179899/2-A		189351	13.06	136600	17.12	128582	19.60
LCSD 410-179899/3-A		184802	13.06	129644	17.12	126249	19.59
410-57303-17	MW-3-20210930	162928	13.06	160377	17.13	151640	19.60
410-57303-18	MW-13S-20210930	187298	13.07	147130	17.12	150852	19.60
410-57303-19	MW-13D-20210930	201225	13.06	146835	17.12	135931	19.60

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181545/2 Date Analyzed: 10/12/2021 06:08

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0801.D Heated Purge: (Y/N) N

Calibration ID: 31373

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		74405	6.27	243826	8.28	116839	11.14
UPPER LIMIT		148810	6.77	487652	8.78	233678	11.64
LOWER LIMIT		37203	5.77	121913	7.78	58420	10.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-17 DL	MW-3-20210930 DL	74922	6.28	240498	8.28	120090	11.14
410-57303-17 DL2	MW-3-20210930 DL2	75383	6.27	252061	8.28	117833	11.14
410-57303-18 DL	MW-13S-20210930 DL	76717	6.27	245537	8.28	115155	11.14
410-57303-20	DUP-20210930	74801	6.27	238614	8.28	116746	11.14

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-181545/2 Date Analyzed: 10/12/2021 06:08

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0801.D Heated Purge: (Y/N) N

Calibration ID: 31373

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		195042	13.06	145067	17.12	136466	19.60
UPPER LIMIT		390084	13.56	290134	17.62	272932	20.10
LOWER LIMIT		97521	12.56	72534	16.62	68233	19.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-17 DL	MW-3-20210930 DL	162521	13.06	126563	17.12	130540	19.60
410-57303-17 DL2	MW-3-20210930 DL2	186674	13.06	133671	17.12	122183	19.59
410-57303-18 DL	MW-13S-20210930 DL	188056	13.06	133391	17.12	120256	19.59
410-57303-20	DUP-20210930	176039	13.06	125375	17.12	121560	19.59

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

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-182120/2 Date Analyzed: 10/13/2021 08:35

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0851.D Heated Purge: (Y/N) N

Calibration ID: 31373

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84152	6.27	276420	8.27	140295	11.12
UPPER LIMIT		168304	6.77	552840	8.77	280590	11.62
LOWER LIMIT		42076	5.77	138210	7.77	70148	10.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-20 DL	DUP-20210930 DL	79427	6.27	254599	8.27	122781	11.13

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.: 410-57303-1

SDG No.:

Sample No.: CCVIS 410-182120/2 Date Analyzed: 10/13/2021 08:35

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NJ0851.D Heated Purge: (Y/N) N

Calibration ID: 31373

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		254988	13.05	195160	17.11	189735	19.57
UPPER LIMIT		509976	13.55	390320	17.61	379470	20.07
LOWER LIMIT		127494	12.55	97580	16.61	94868	19.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-57303-20 DL	DUP-20210930 DL	210335	13.05	154295	17.10	134348	19.57

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-1-20210928 Lab Sample ID: 410-57303-1

Matrix: Ground Water Lab File ID: MJ0515.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 11:16

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 243.3(mL) Date Analyzed: 10/07/2021 18:07

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.: 179971 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	0.021	J	0.051	0.010
86-73-7	Fluorene	0.016	J	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
91-20-3	Naphthalene	0.046	J B	0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	0.017	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	74		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		36-111
93951-69-0	Fluoranthene-d10 (Surr)	108		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0515.D
Lims ID: 410-57303-A-1-A
Client ID: MW-1-20210928
Sample Type: Client
Inject. Date: 07-Oct-2021 18:07:23 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-1-A
Misc. Info.: 410-0040957-016
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 03:59:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	93	59451	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	91	205776	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	93	10670	0.0112	
$ 9 1-Methylnaphthalene-d10	152	10.474	10.498	-0.001	100	80886	0.2031	
* 13 Acenaphthene-d10	164	11.978	11.991	-0.013	90	109418	0.2500	
14 Acenaphthene	154	12.027	12.027	0.000	86	1015	0.001822	7M
17 Fluorene	166	12.687	12.687	0.000	97	2486	0.003798	M
* 20 Phenanthrene-d10	188	13.889	13.889	0.000	95	143530	0.2500	
22 Anthracene	178	13.998	14.006	0.000	98	850	0.001248	7M
$ 24 Fluoranthene-d10 (Surr)	212	15.603	15.612	0.000	100	153729	0.2704	
25 Fluoranthene	202	15.634	15.634	0.000	100	3978	0.005068	M
26 Pyrene	202	15.998	16.004	0.007	100	4930	0.004078	M
* 29 Chrysene-d12	240	18.063	18.063	0.000	55	182076	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.440	20.448	0.000	100	132795	0.1859	
* 38 Perylene-d12	264	20.571	20.571	0.000	99	200810	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.397	22.433	0.042	99	903	0.001059	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

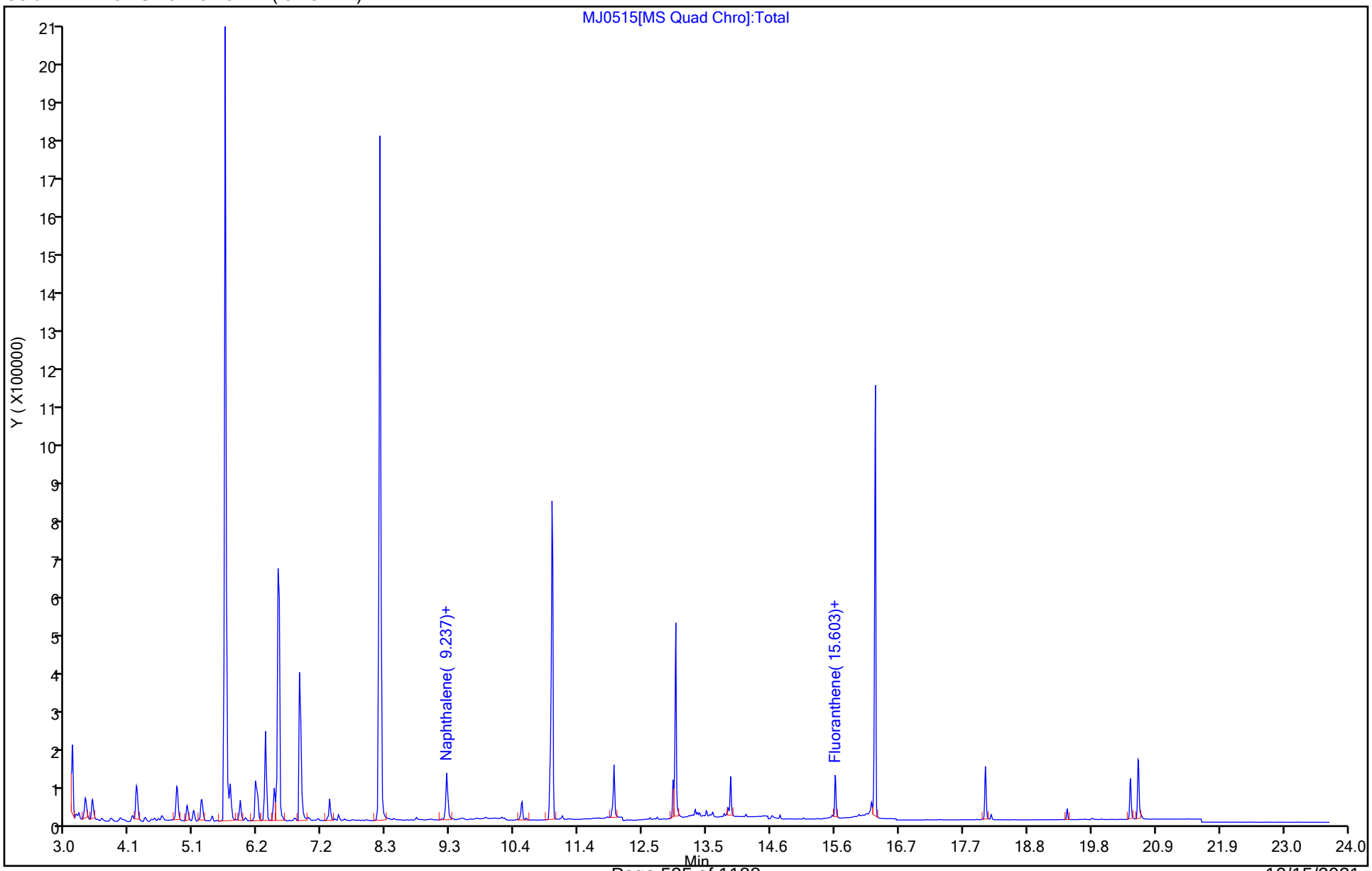
Report Date: 08-Oct-2021 04:11:11 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0515.D

Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1	Worklist Smp#:	16
Client ID:	MW-1-20210928				
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)



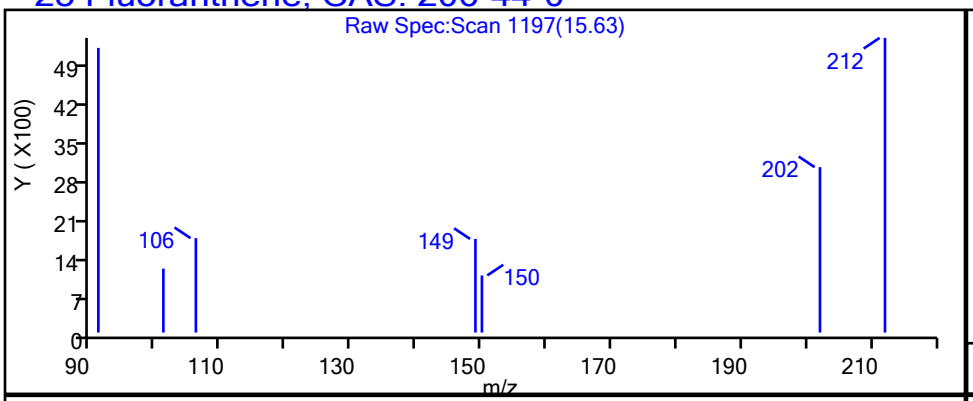
Report Date: 08-Oct-2021 04:11:11 Chrom Revision: 2.3 22-Sep-2021 15:38:46

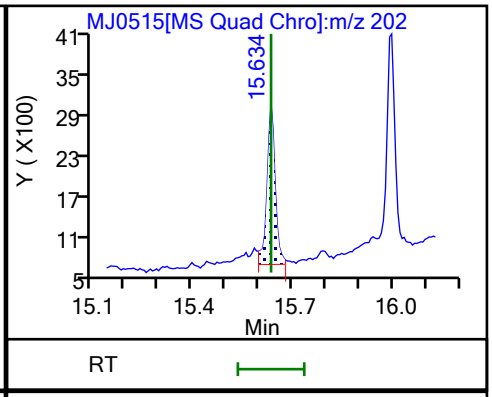
Eurofins Lancaster Laboratories Env, LLC

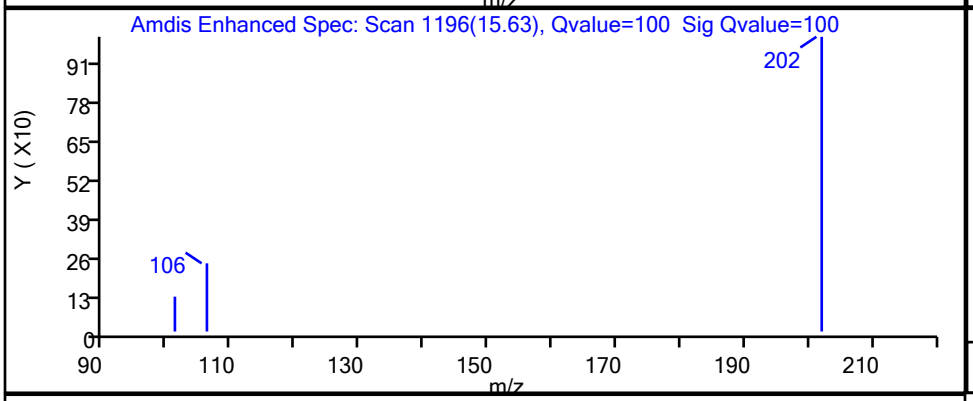
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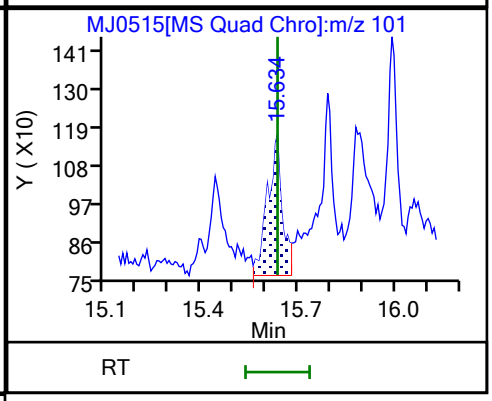
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Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

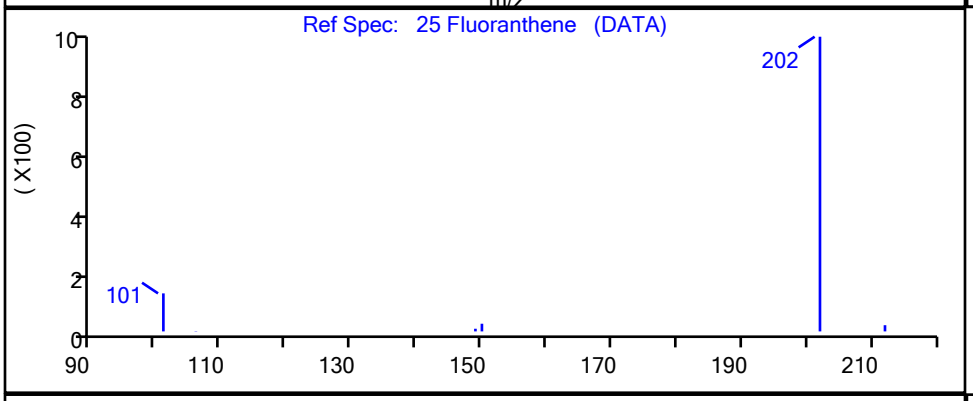
25 Fluoranthene, CAS: 206-44-0

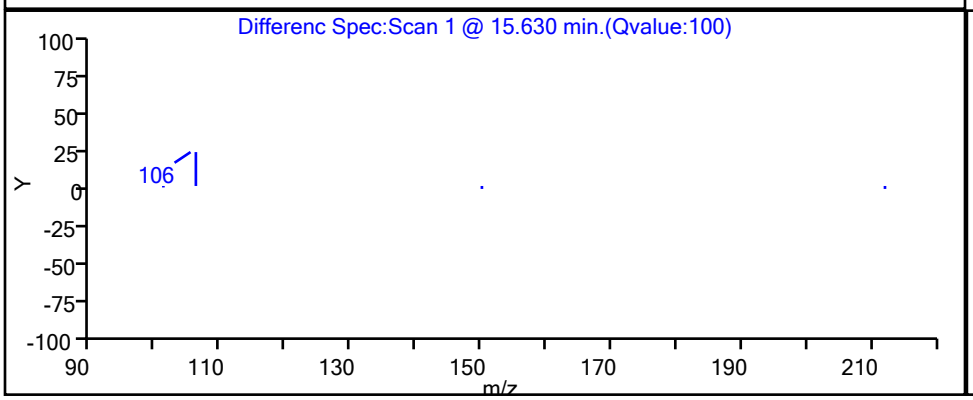


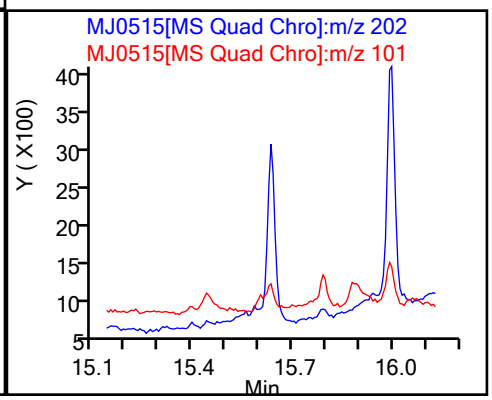










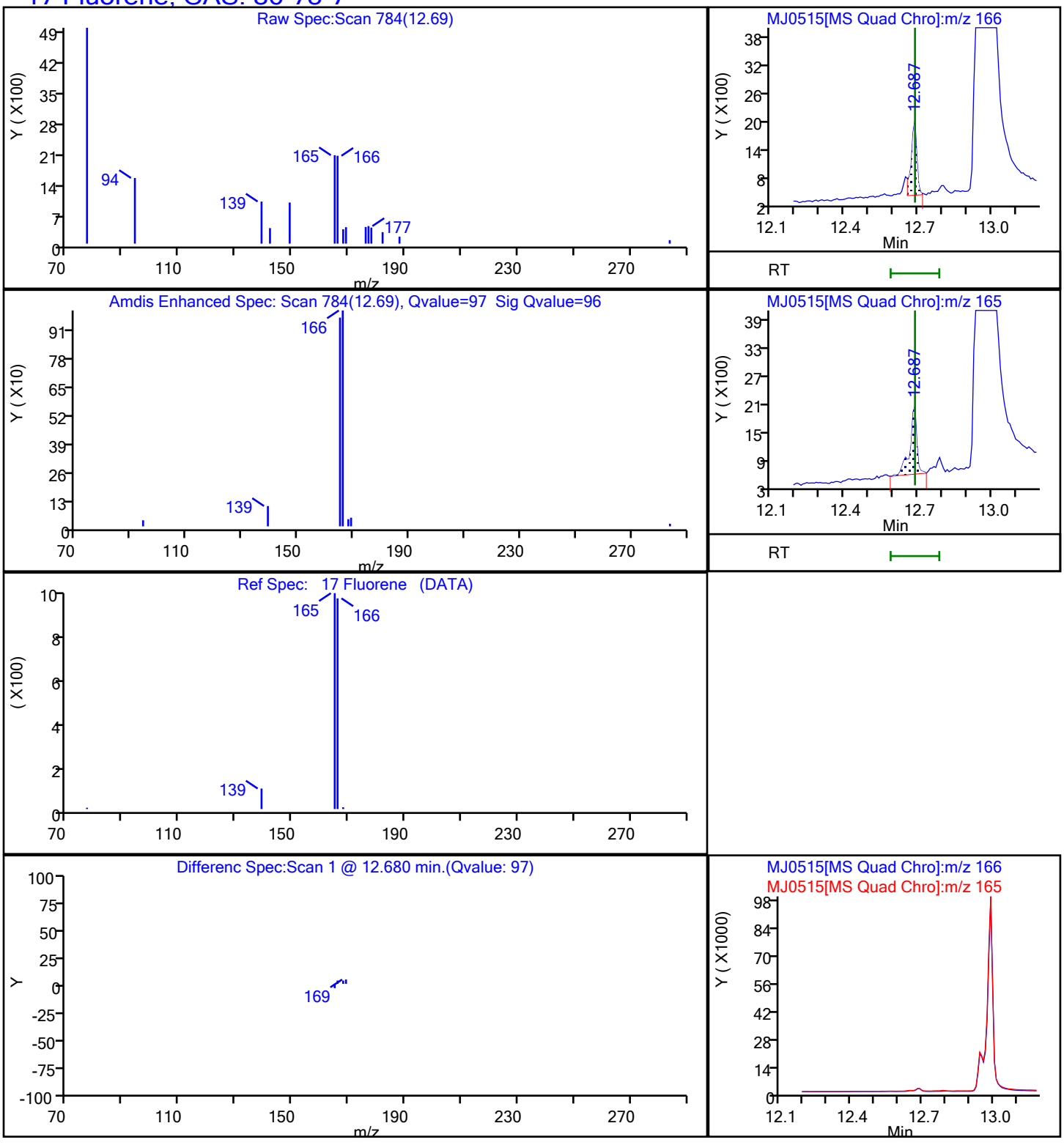


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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585		
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	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		

17 Fluorene, CAS: 86-73-7



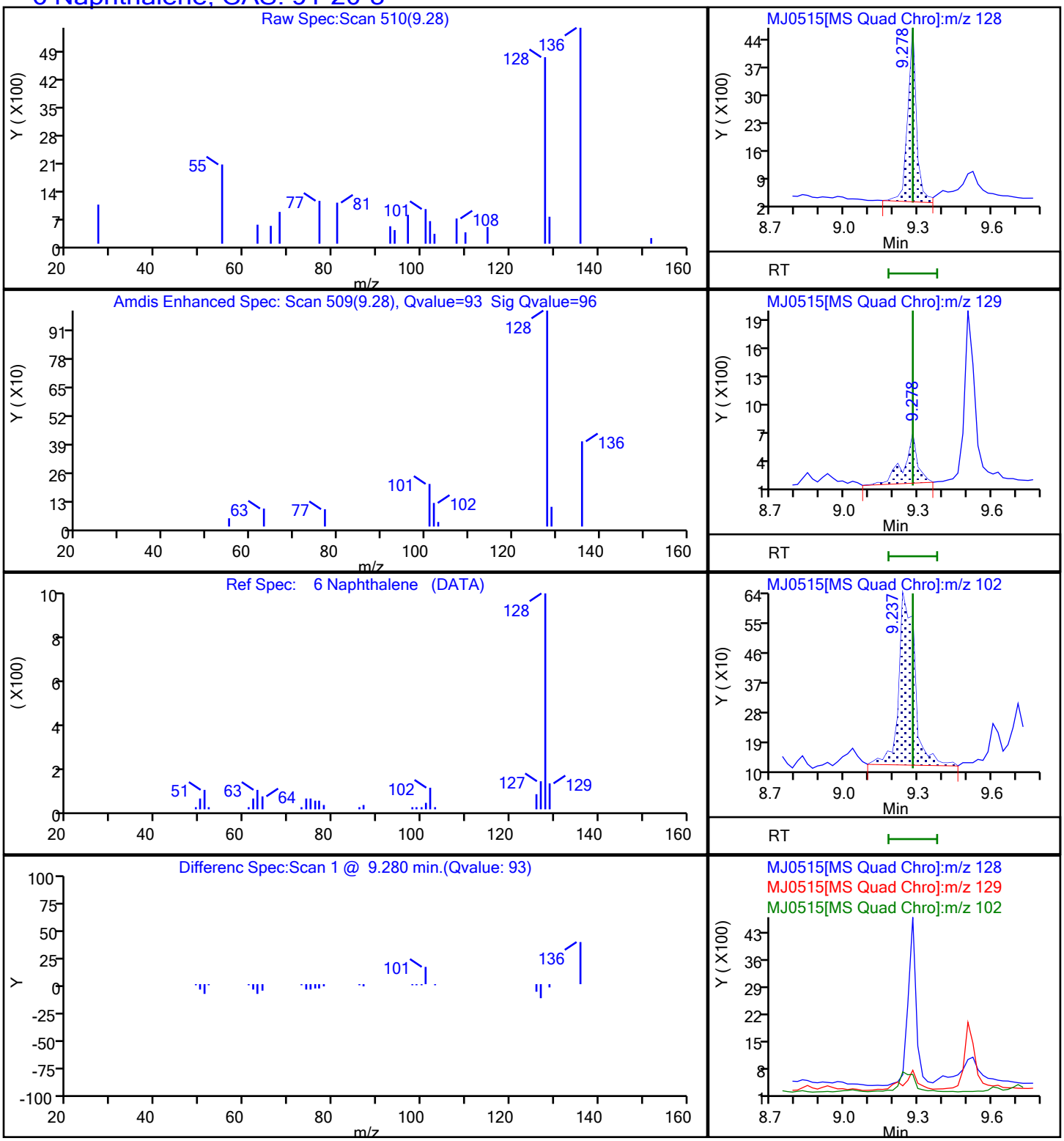
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0515.D

Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585		
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	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



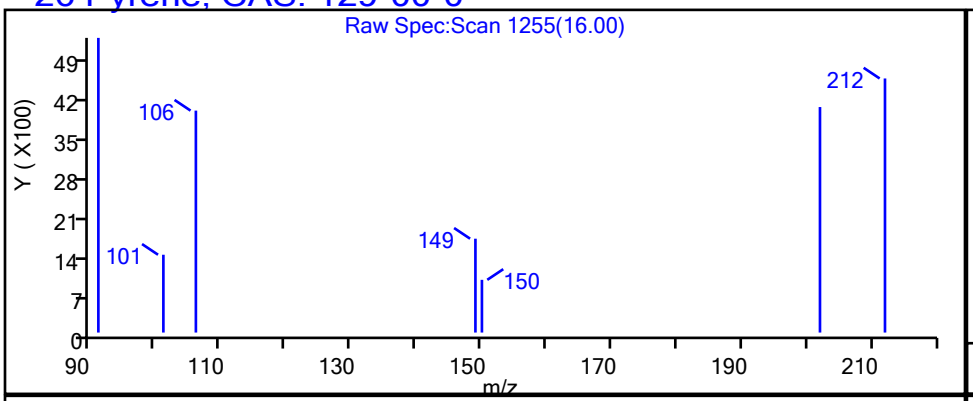
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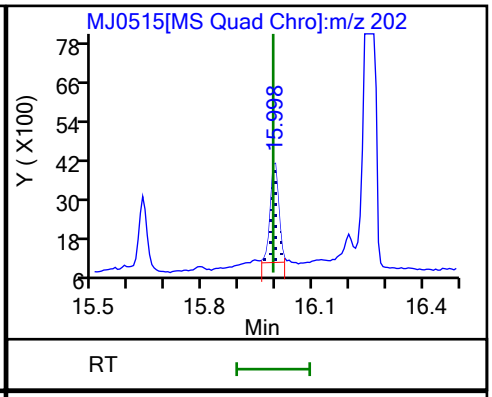
Eurofins Lancaster Laboratories Env, LLC

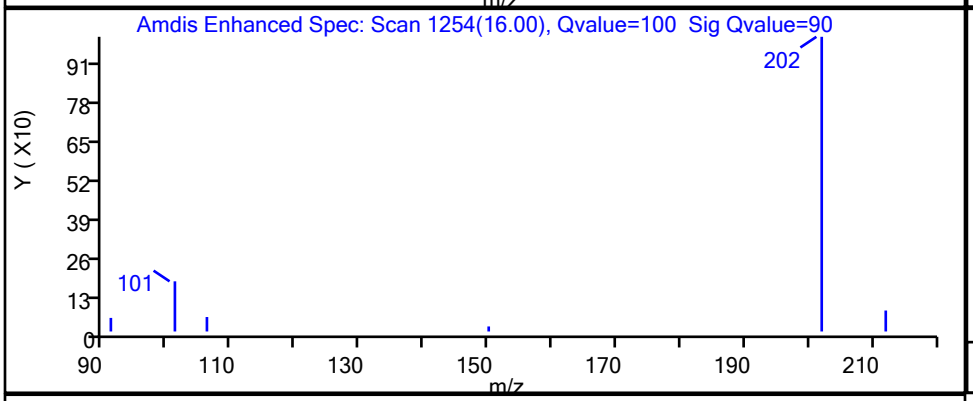
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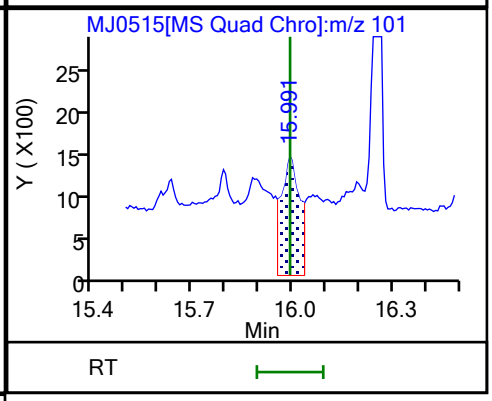
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Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

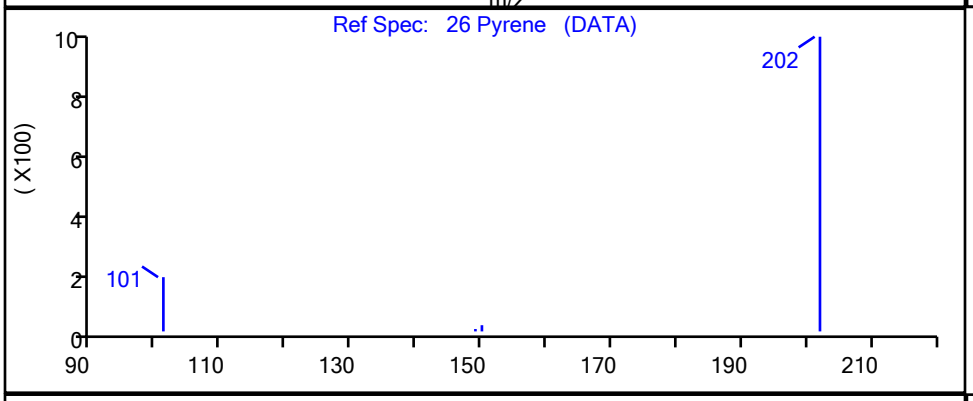
26 Pyrene, CAS: 129-00-0

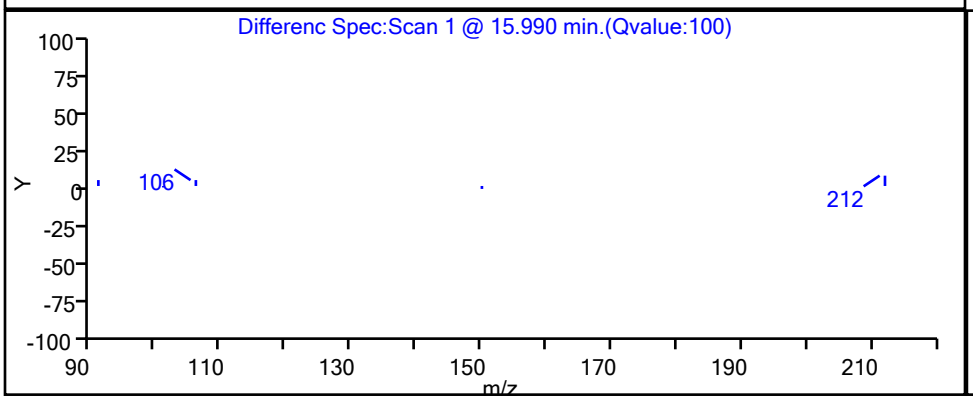


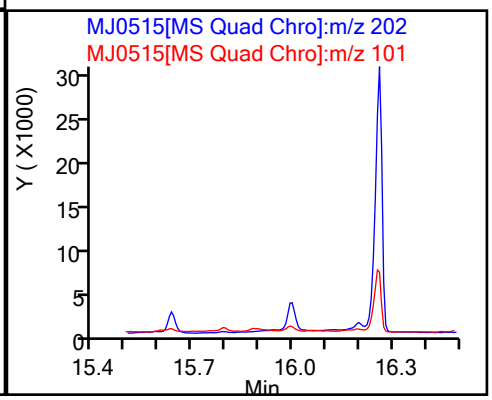












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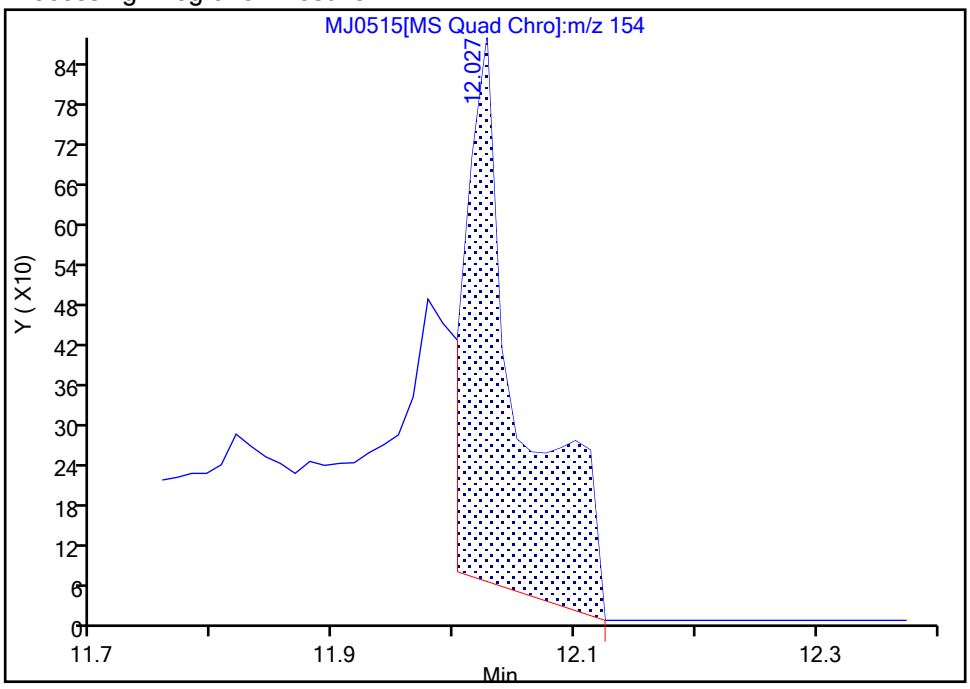
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Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

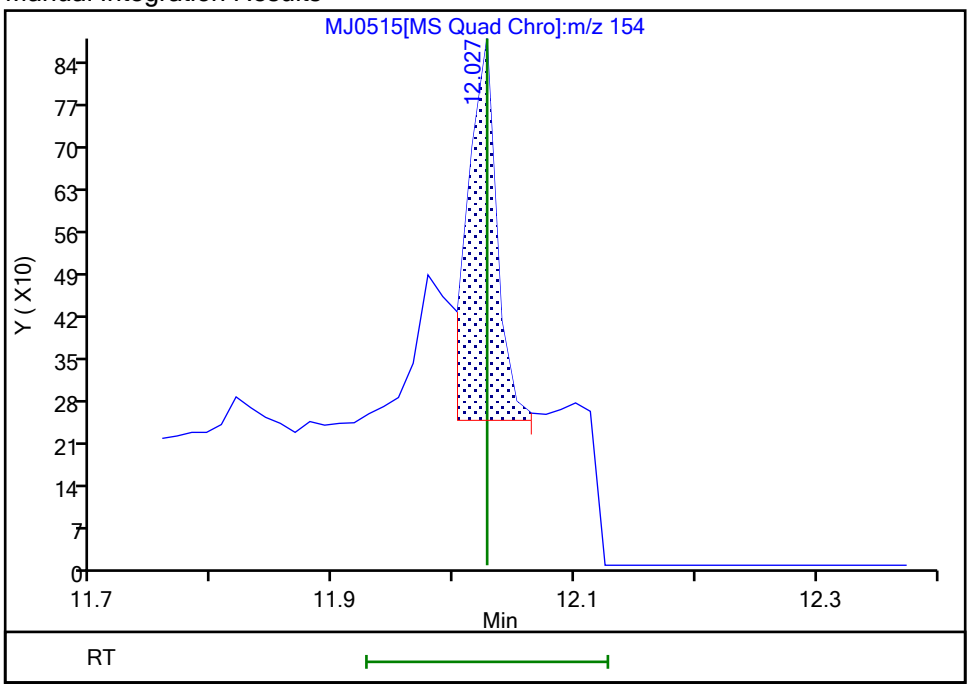
Processing Integration Results

RT: 12.03
Area: 2484
Amount: 0.004460
Amount Units: ug/ml



Manual Integration Results

RT: 12.03
Area: 1015
Amount: 0.001822
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:58:20
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

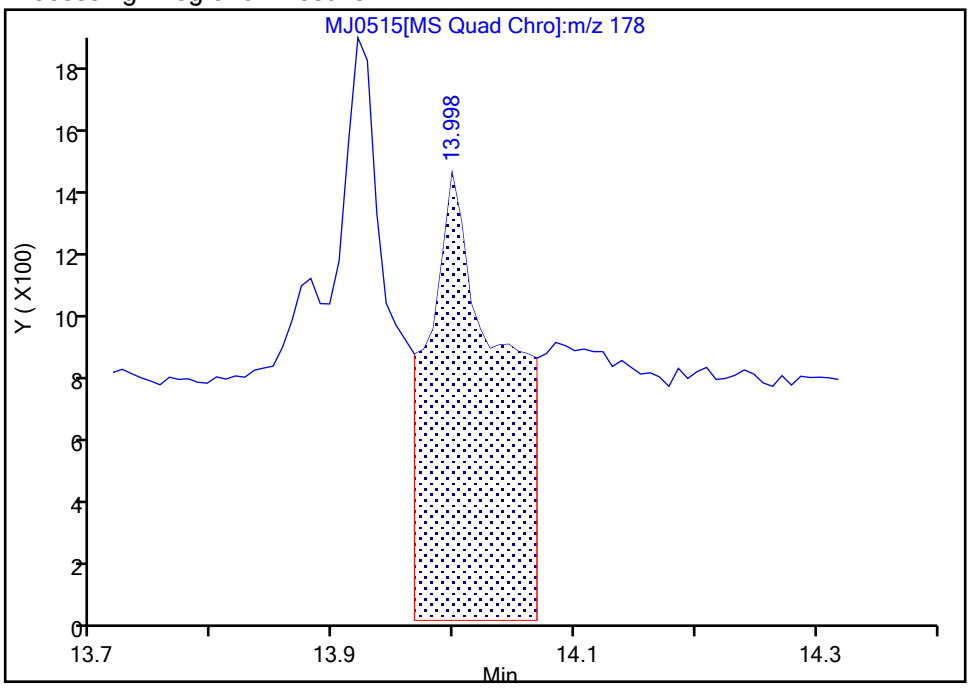
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Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585		
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

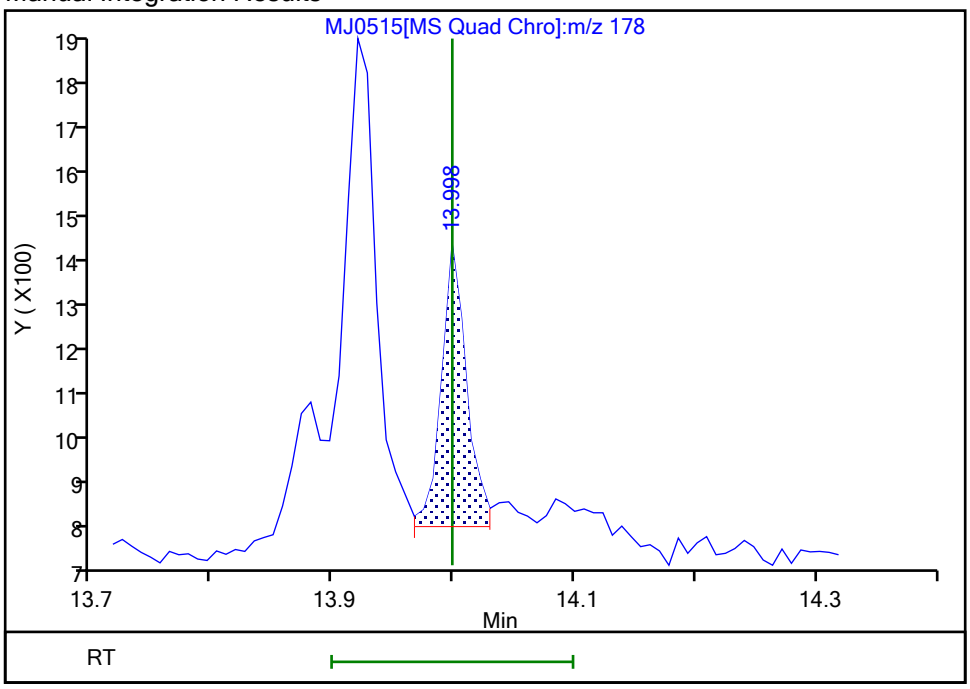
Processing Integration Results

RT: 14.00
Area: 5938
Amount: 0.008720
Amount Units: ug/ml



Manual Integration Results

RT: 14.00
Area: 850
Amount: 0.001248
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:58:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

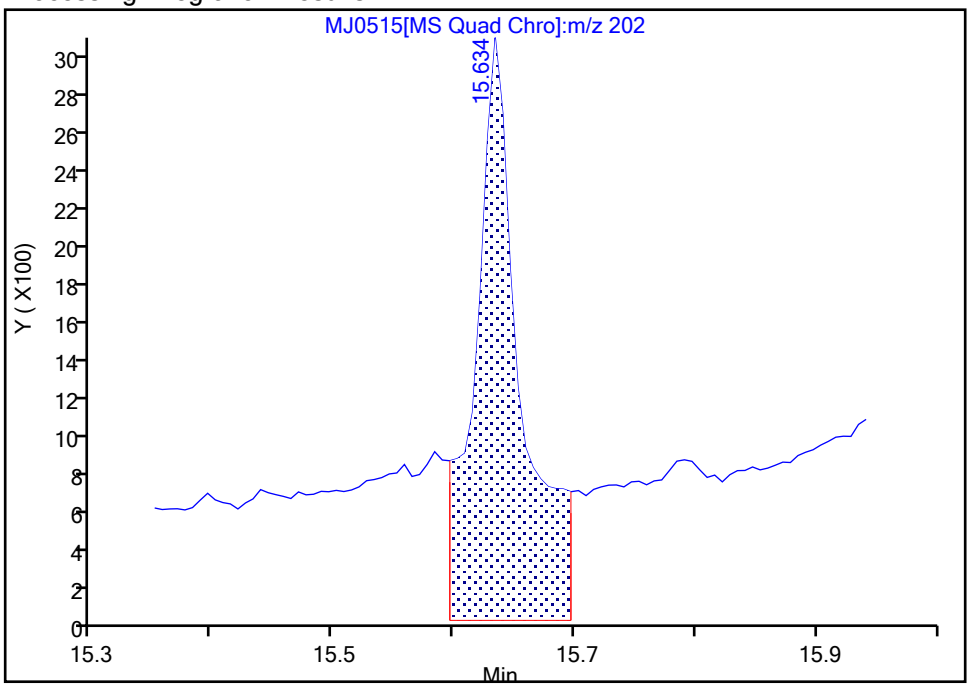
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Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585		
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

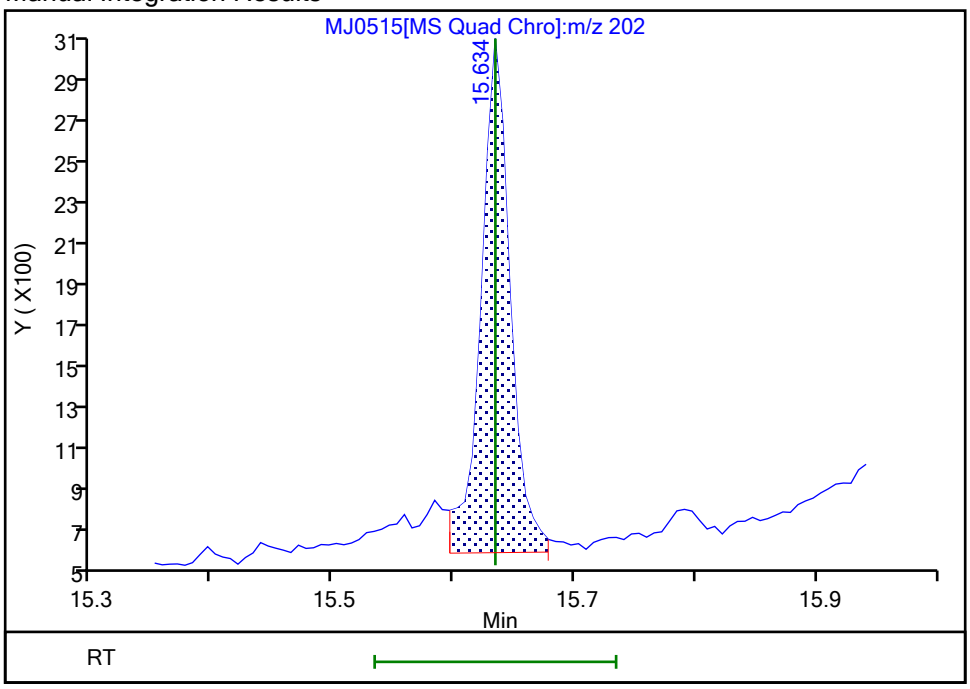
Processing Integration Results

RT: 15.63
Area: 7822
Amount: 0.009965
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 3978
Amount: 0.005068
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:58:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

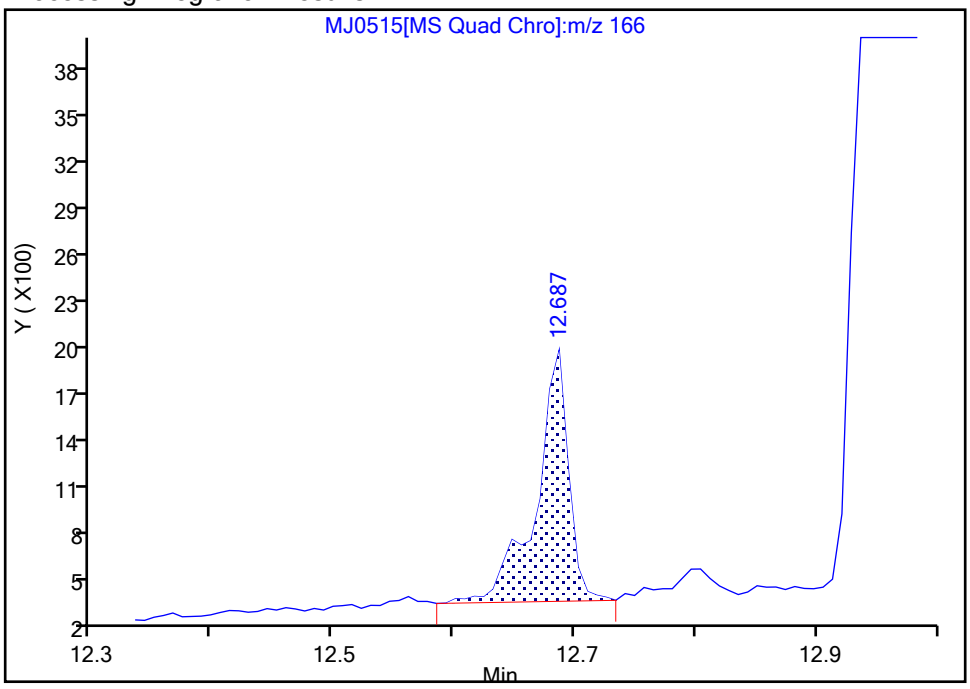
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Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1
Client ID:	MW-1-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

17 Fluorene, CAS: 86-73-7

Signal: 1

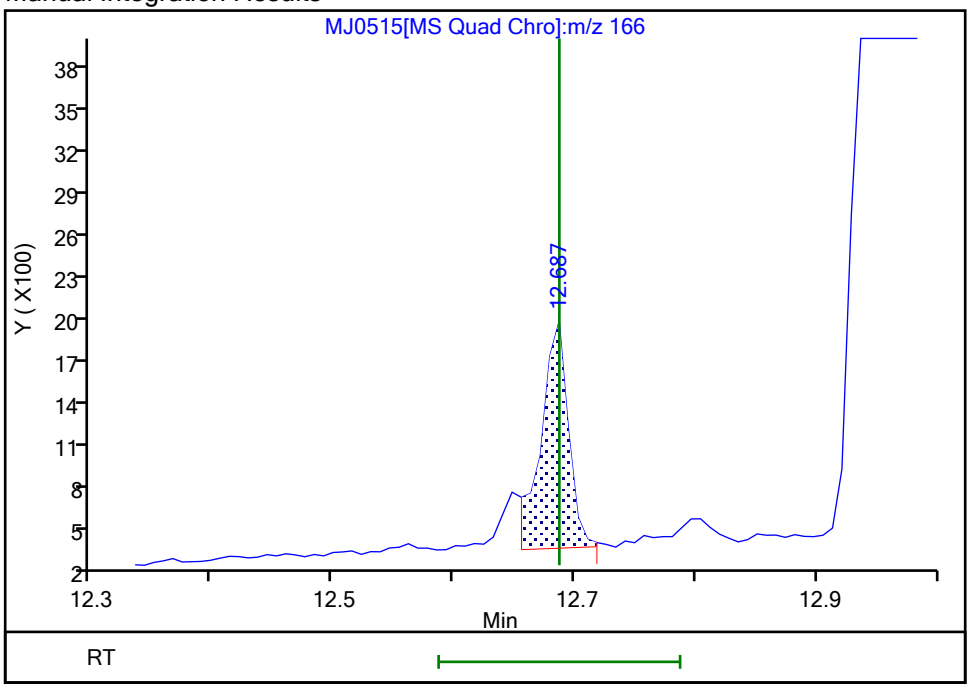
Processing Integration Results

RT: 12.69
Area: 2985
Amount: 0.004560
Amount Units: ug/ml



Manual Integration Results

RT: 12.69
Area: 2486
Amount: 0.003798
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:58:30

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

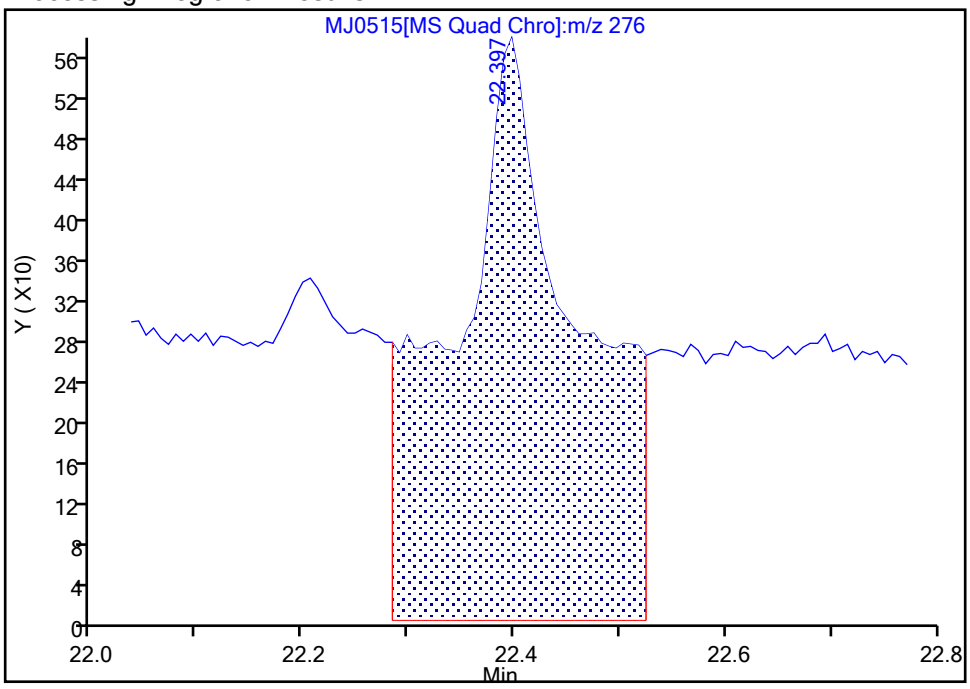
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Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585		
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

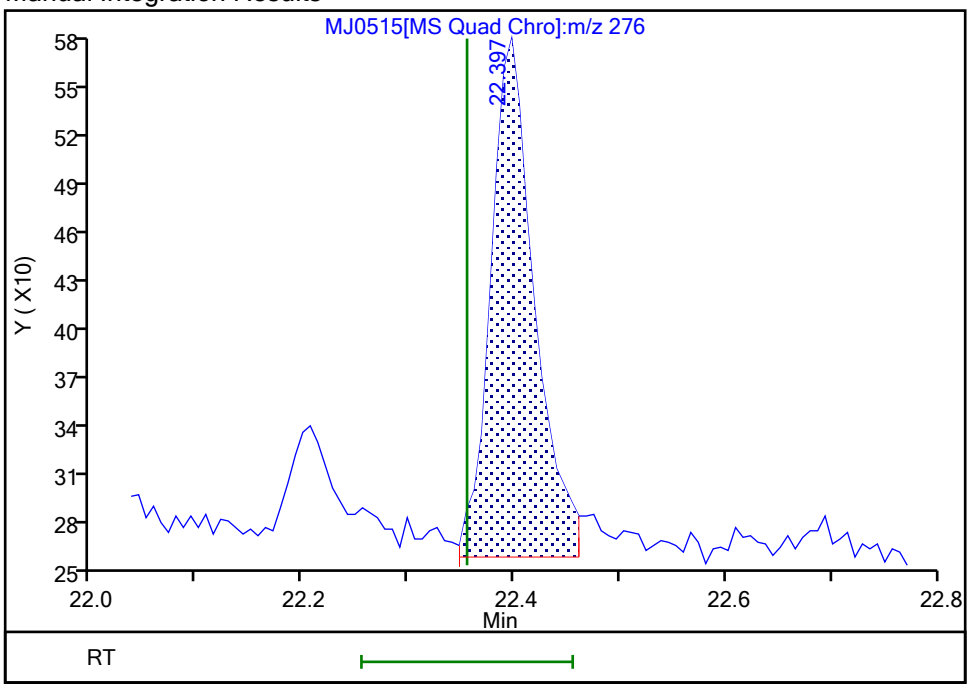
Processing Integration Results

RT: 22.40
Area: 4705
Amount: 0.005519
Amount Units: ug/ml



Manual Integration Results

RT: 22.40
Area: 903
Amount: 0.001059
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:59:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

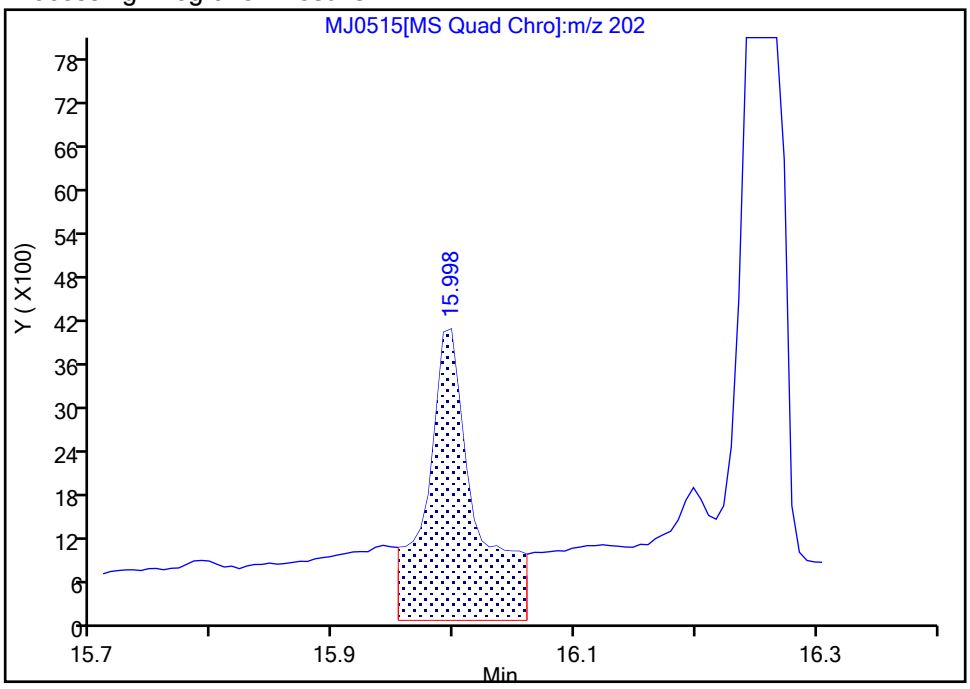
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Injection Date:	07-Oct-2021 18:07:23	Instrument ID:	HP21585
Lims ID:	410-57303-A-1-A	Lab Sample ID:	410-57303-1
Client ID:	MW-1-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0

Signal: 1

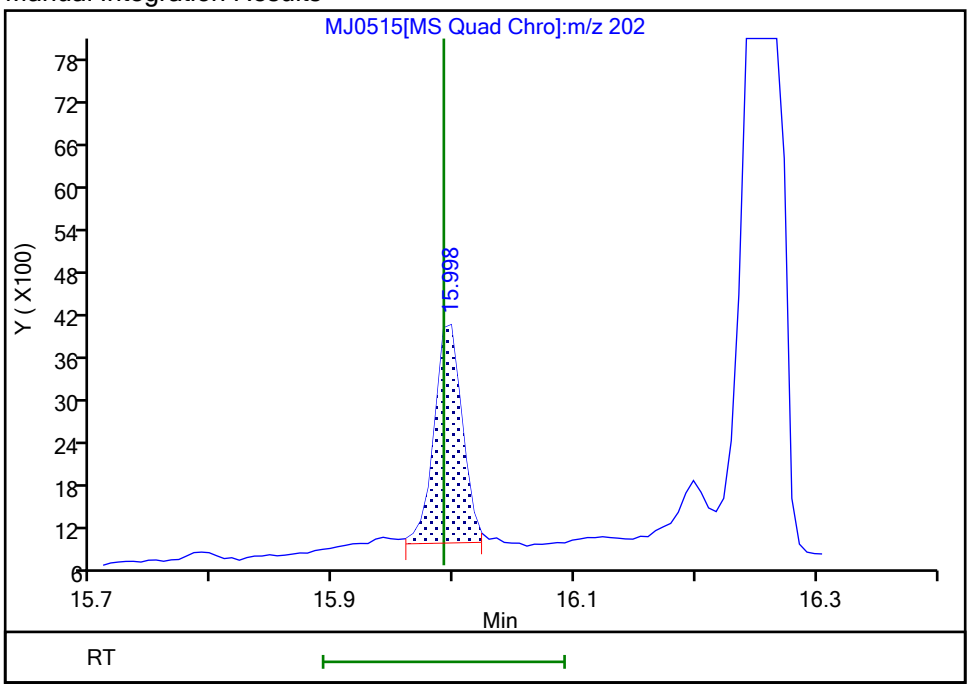
Processing Integration Results

RT: 16.00
Area: 11141
Amount: 0.009215
Amount Units: ug/ml



Manual Integration Results

RT: 16.00
Area: 4930
Amount: 0.004078
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:59:04

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-1-20210928 RE Lab Sample ID: 410-57303-1 RE

Matrix: Ground Water Lab File ID: MJ0718.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 11:16

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 240.3(mL) Date Analyzed: 10/12/2021 12:00

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.: 181586 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*	*ND*	*H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*	*H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*	*H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*ND*	*H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*ND*	*H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.013*	*J H*	*0.052*	*0.010*
86-73-7	*Fluorene*	*0.012*	*J 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*	*0.073*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.073*	*0.031*
129-00-0	*Pyrene*	*0.015*	*J H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	80		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\HP21585\20211012-41301.b\MJ0718.D
Lims ID: 410-57303-B-1-A RE
Client ID: MW-1-20210928
Sample Type: Client
Inject. Date: 12-Oct-2021 12:00:48 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-1-A
Misc. Info.: 410-0041301-009
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:19:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	98	67337	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	244175	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	94760	0.2005	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	90	126824	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	87	831	0.001287	7M
17 Fluorene	166	12.679	12.679	0.000	93	2246	0.002960	M
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	96	213927	0.2500	
22 Anthracene	178	13.990	13.983	-0.001	97	789	0.000777	7M
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.605	-0.001	100	180036	0.2125	
25 Fluoranthene	202	15.628	15.628	0.000	100	3612	0.003087	M
26 Pyrene	202	15.991	15.979	0.006	100	4578	0.003545	M
* 29 Chrysene-d12	240	18.055	18.055	0.000	57	194478	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.433	0.008	99	160568	0.2126	
* 38 Perylene-d12	264	20.555	20.556	-0.001	99	212319	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.390	22.390	0.056	97	909	0.001008	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

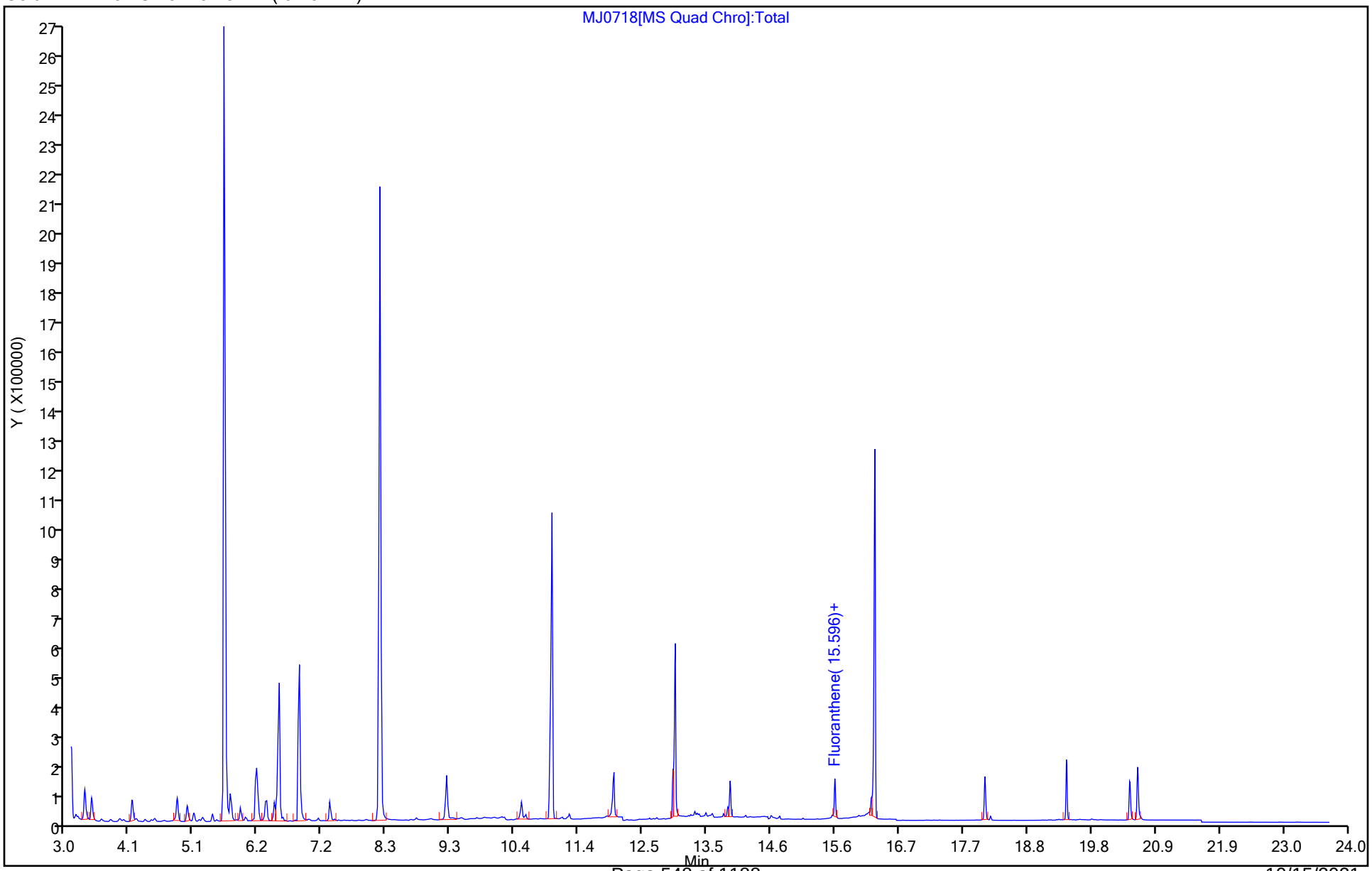
Report Date: 13-Oct-2021 08:30:51 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1	Worklist Smp#:	9
Client ID:	MW-1-20210928				
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)



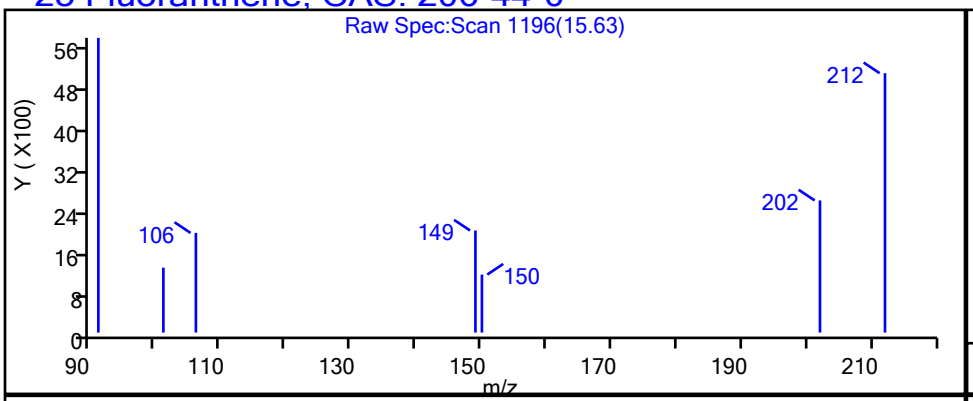
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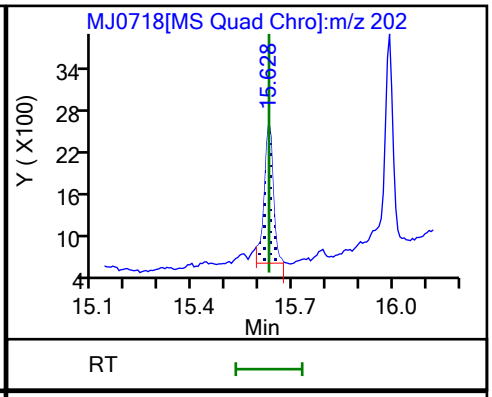
Eurofins Lancaster Laboratories Env, LLC

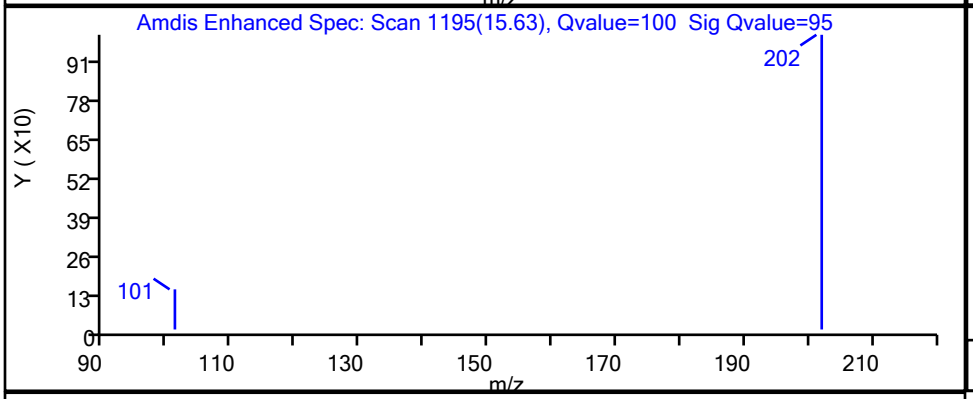
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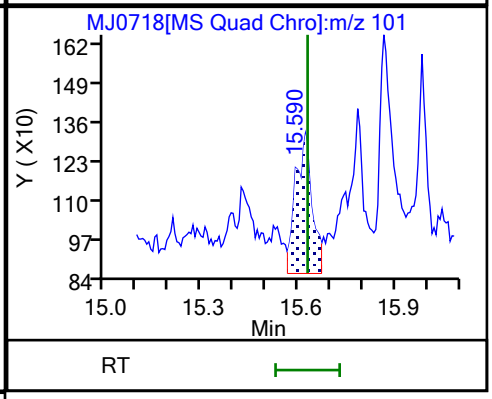
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

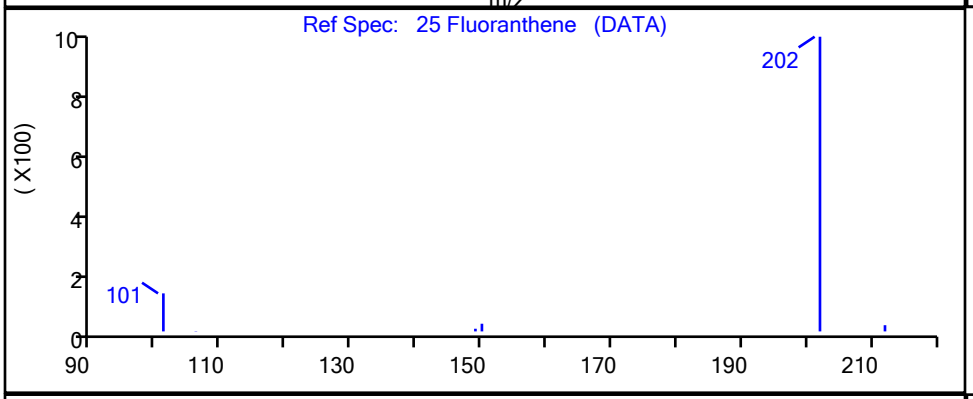
25 Fluoranthene, CAS: 206-44-0

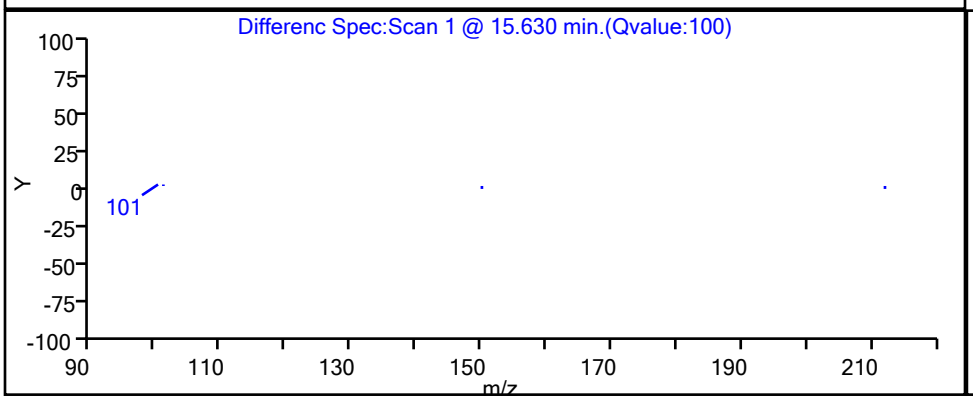


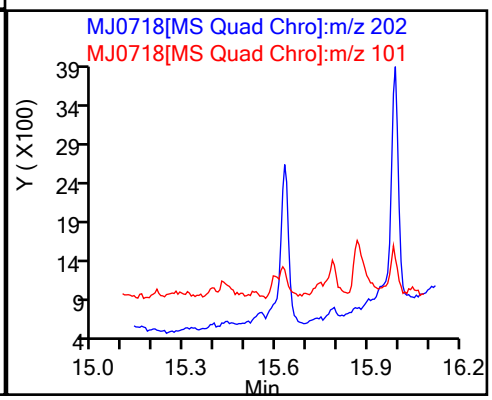








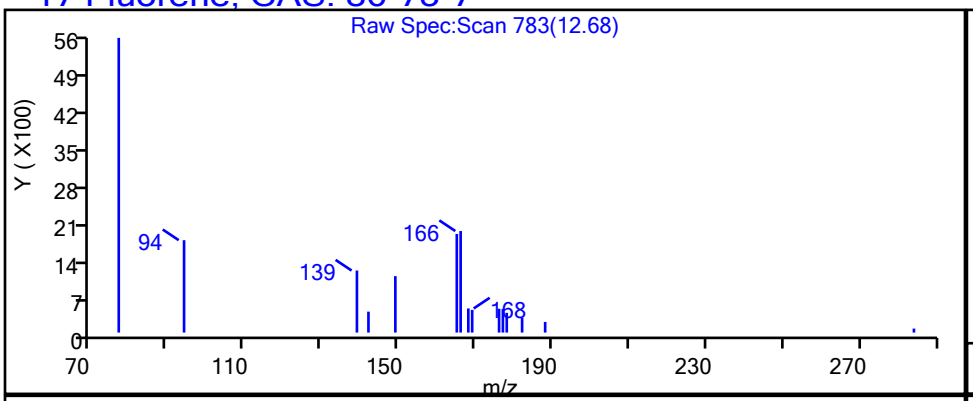


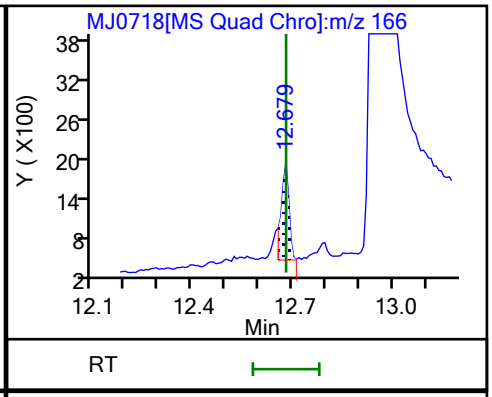


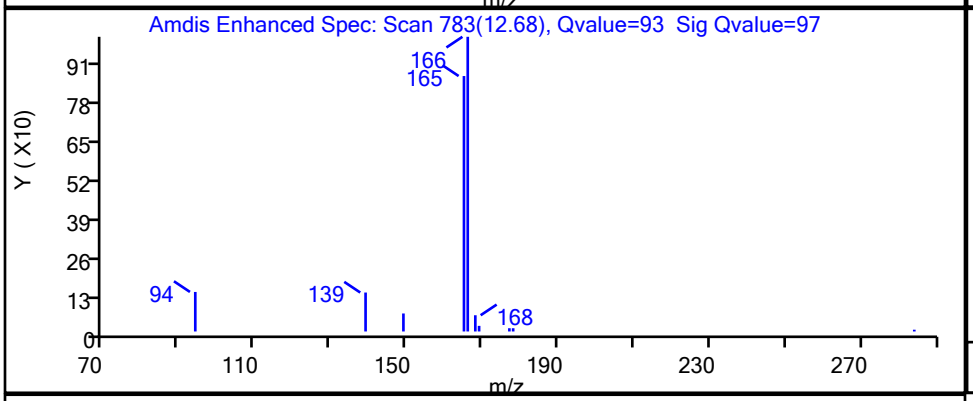
Eurofins Lancaster Laboratories Env, LLC

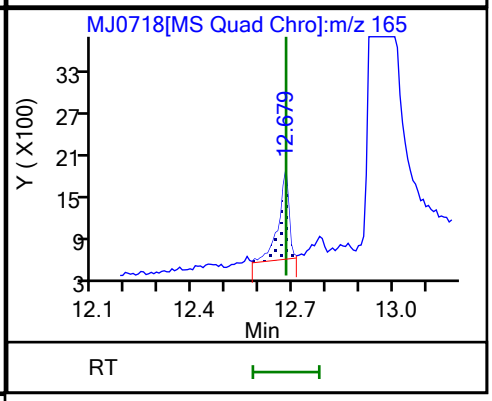
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Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1
Client ID:	MW-1-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

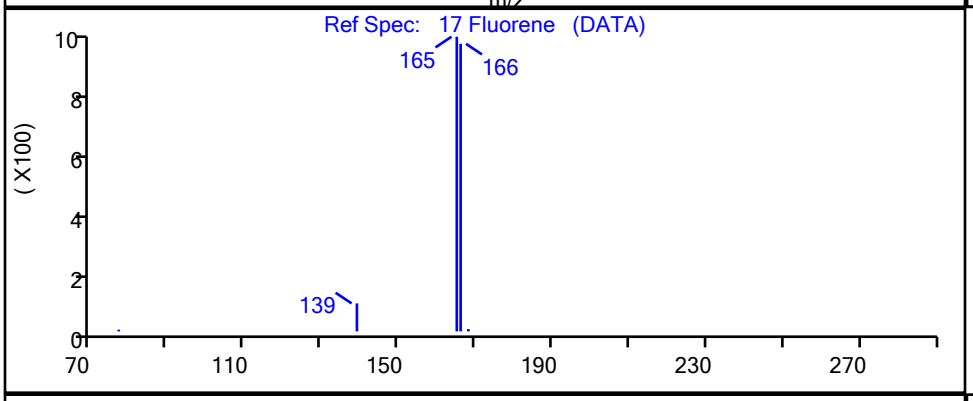
17 Fluorene, CAS: 86-73-7

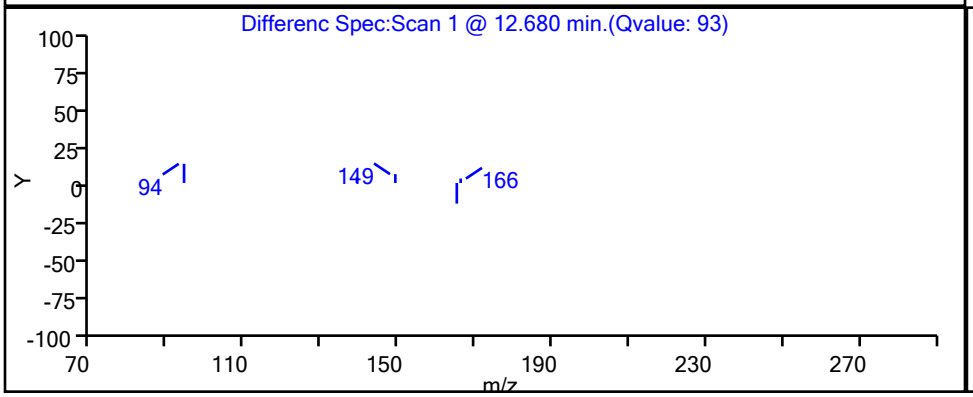


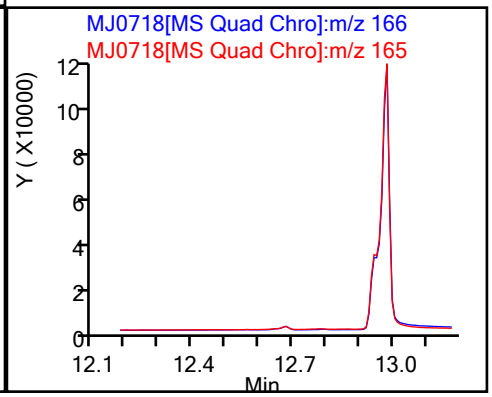












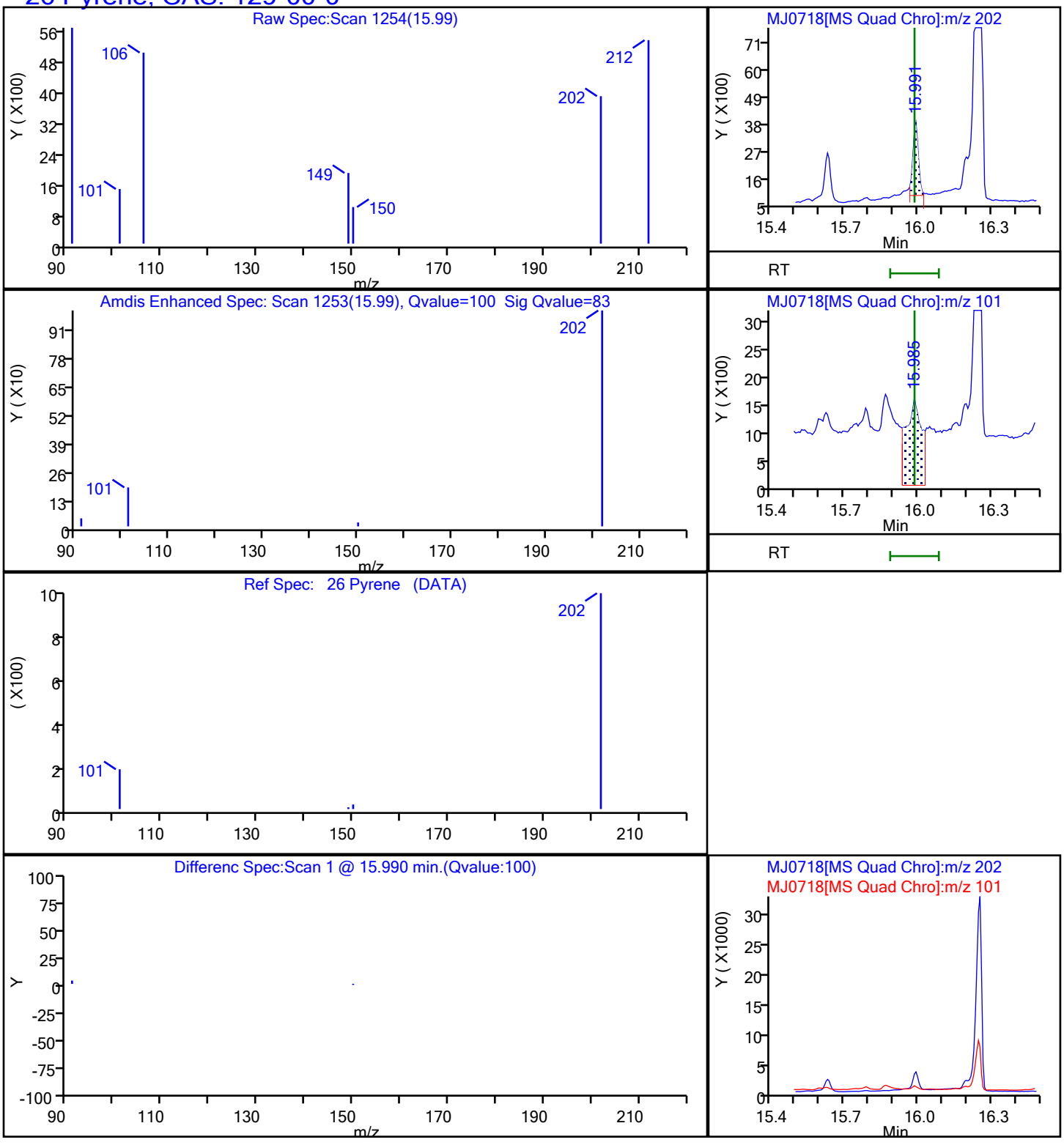
Report Date: 13-Oct-2021 08:30:52 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D

Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

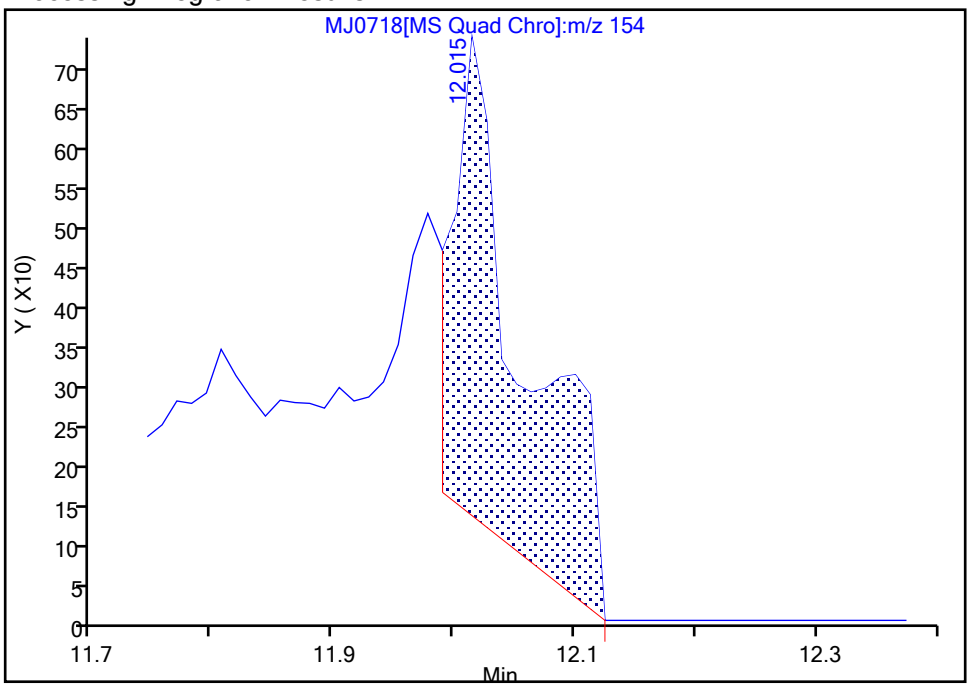
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

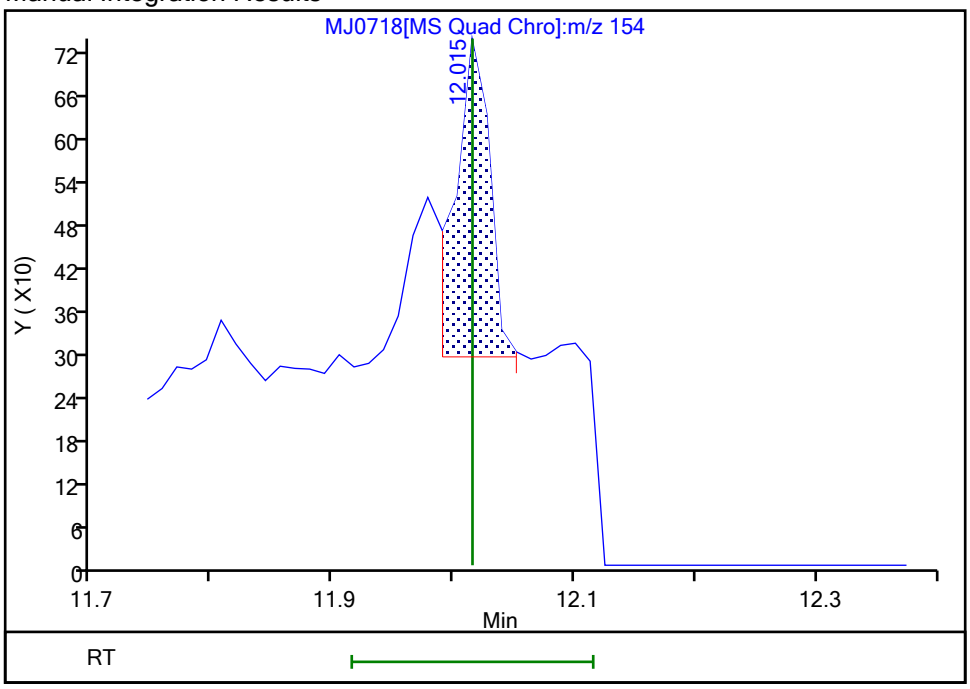
Processing Integration Results

RT: 12.01
Area: 2438
Amount: 0.003776
Amount Units: ug/ml



Manual Integration Results

RT: 12.01
Area: 831
Amount: 0.001287
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:18:36

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

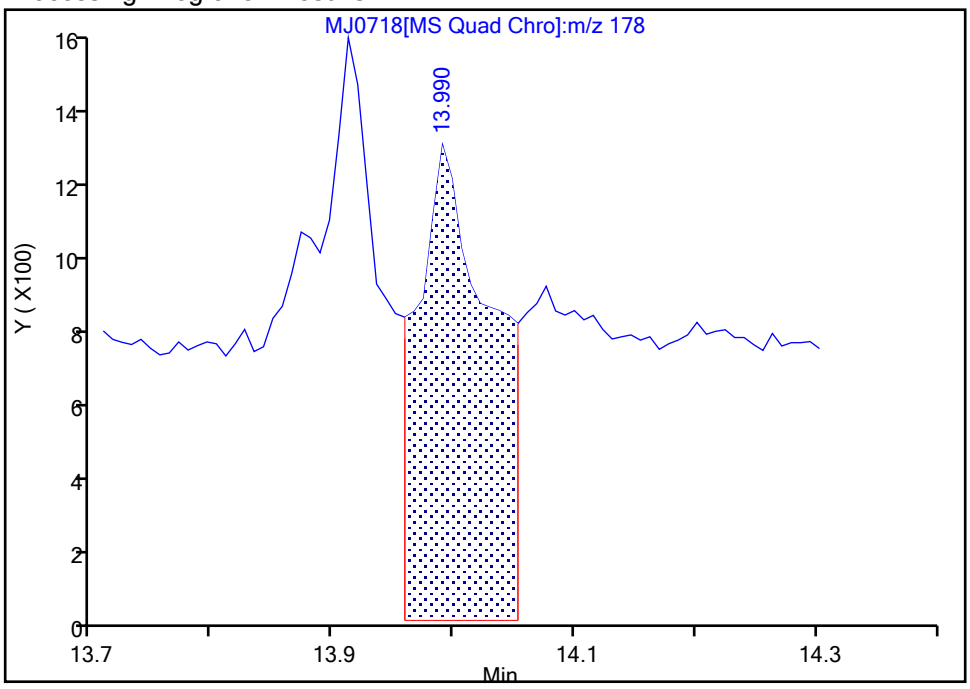
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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		

22 Anthracene, CAS: 120-12-7

Signal: 1

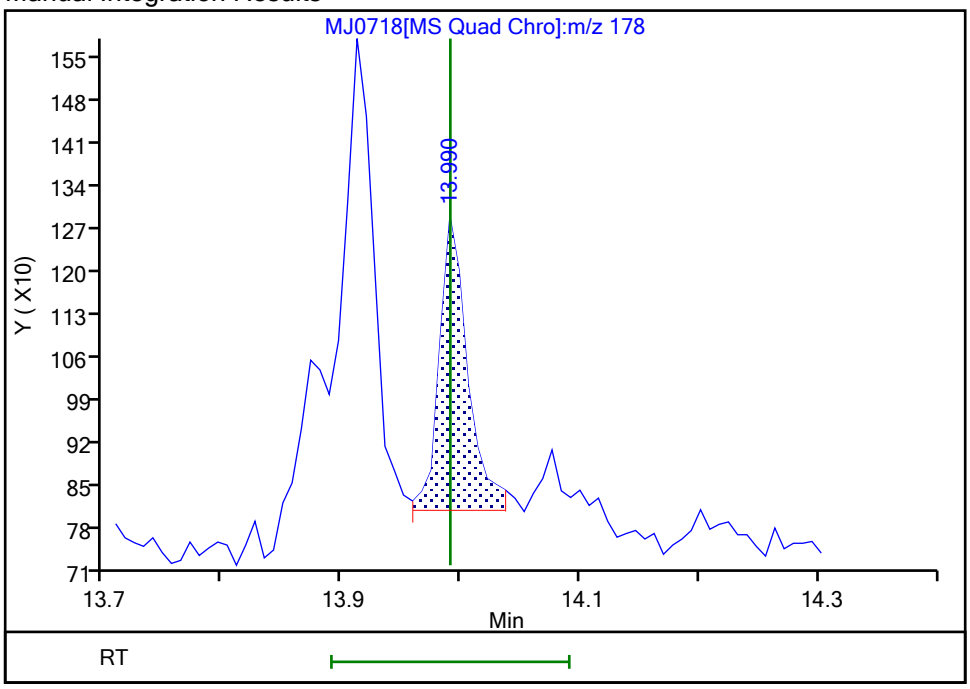
Processing Integration Results

RT: 13.99
Area: 5341
Amount: 0.005263
Amount Units: ug/ml



Manual Integration Results

RT: 13.99
Area: 789
Amount: 0.000777
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:18:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

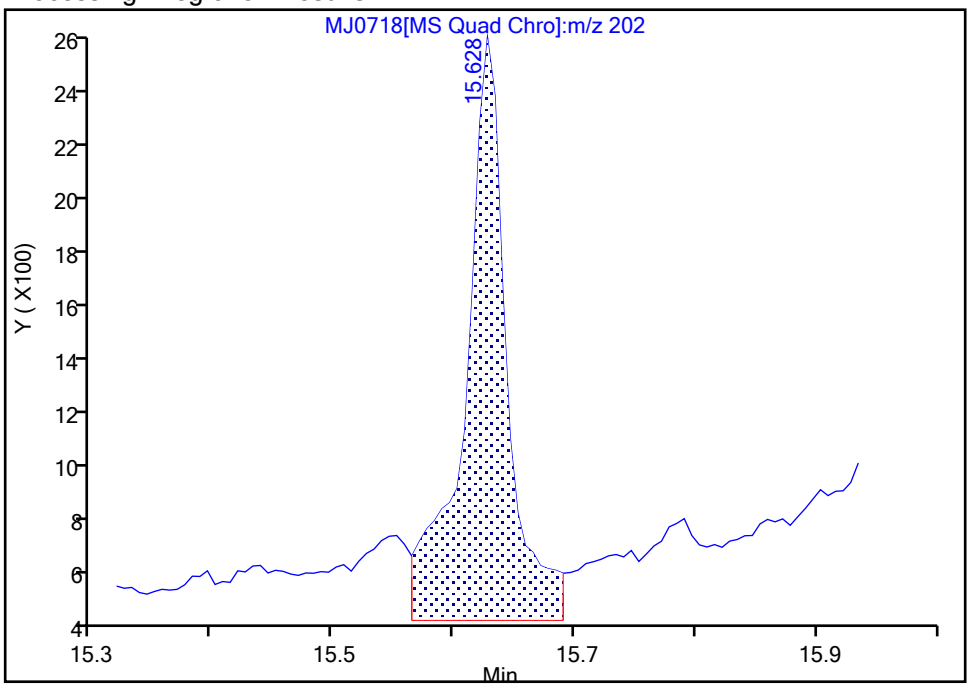
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

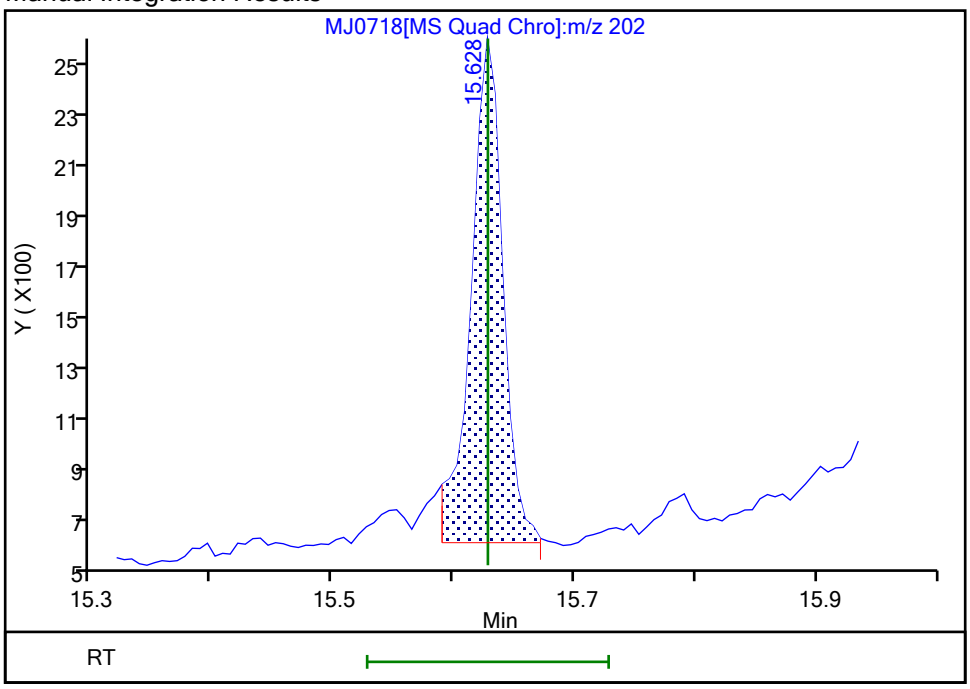
Processing Integration Results

RT: 15.63
Area: 5243
Amount: 0.004482
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 3612
Amount: 0.003087
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:19:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

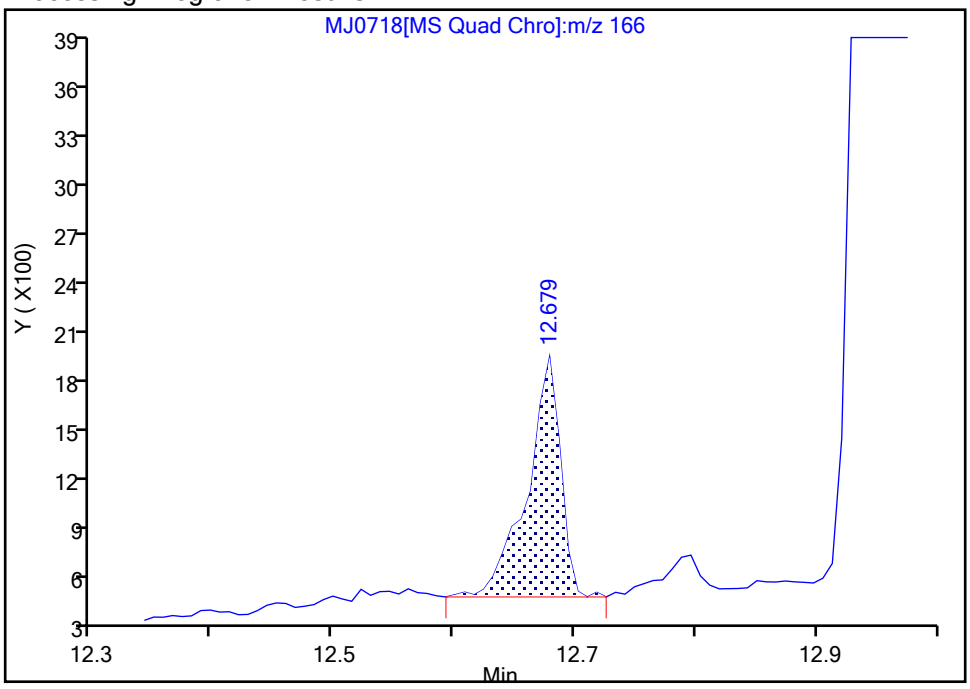
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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		

17 Fluorene, CAS: 86-73-7

Signal: 1

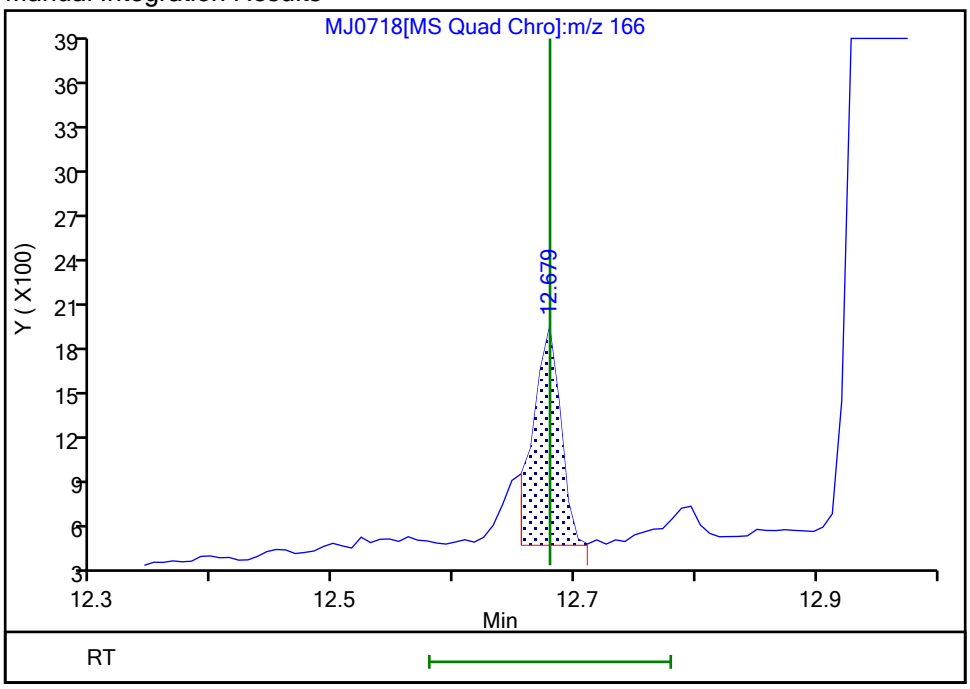
Processing Integration Results

RT: 12.68
Area: 2769
Amount: 0.003650
Amount Units: ug/ml



Manual Integration Results

RT: 12.68
Area: 2246
Amount: 0.002960
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:18:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

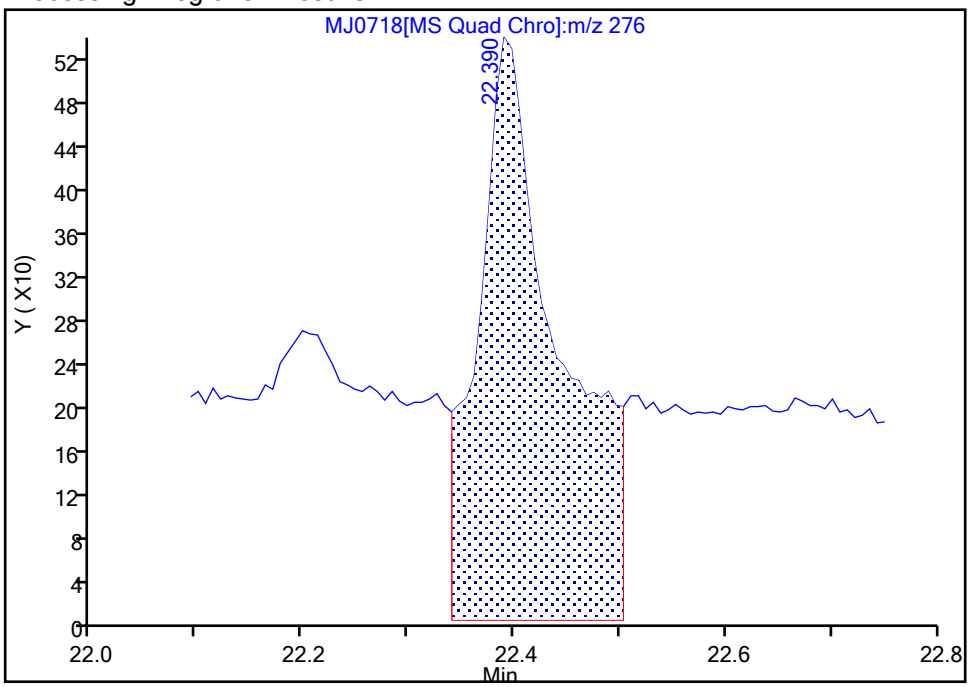
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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

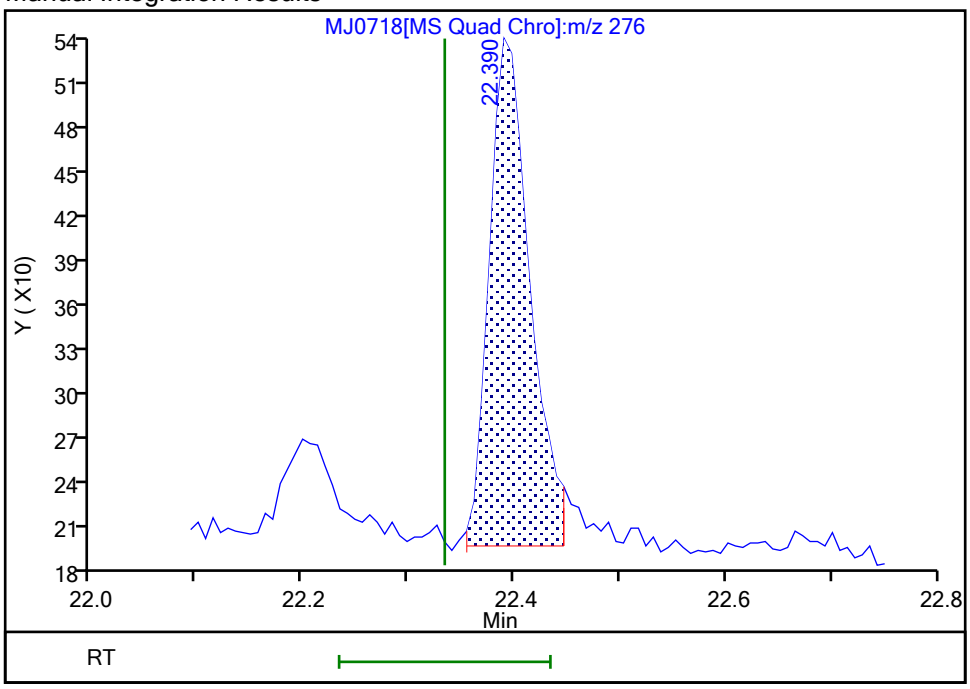
Processing Integration Results

RT: 22.39
Area: 2868
Amount: 0.003182
Amount Units: ug/ml



Manual Integration Results

RT: 22.39
Area: 909
Amount: 0.001008
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:19:27

Audit Action: Manually Integrated Audit Reason: Baseline

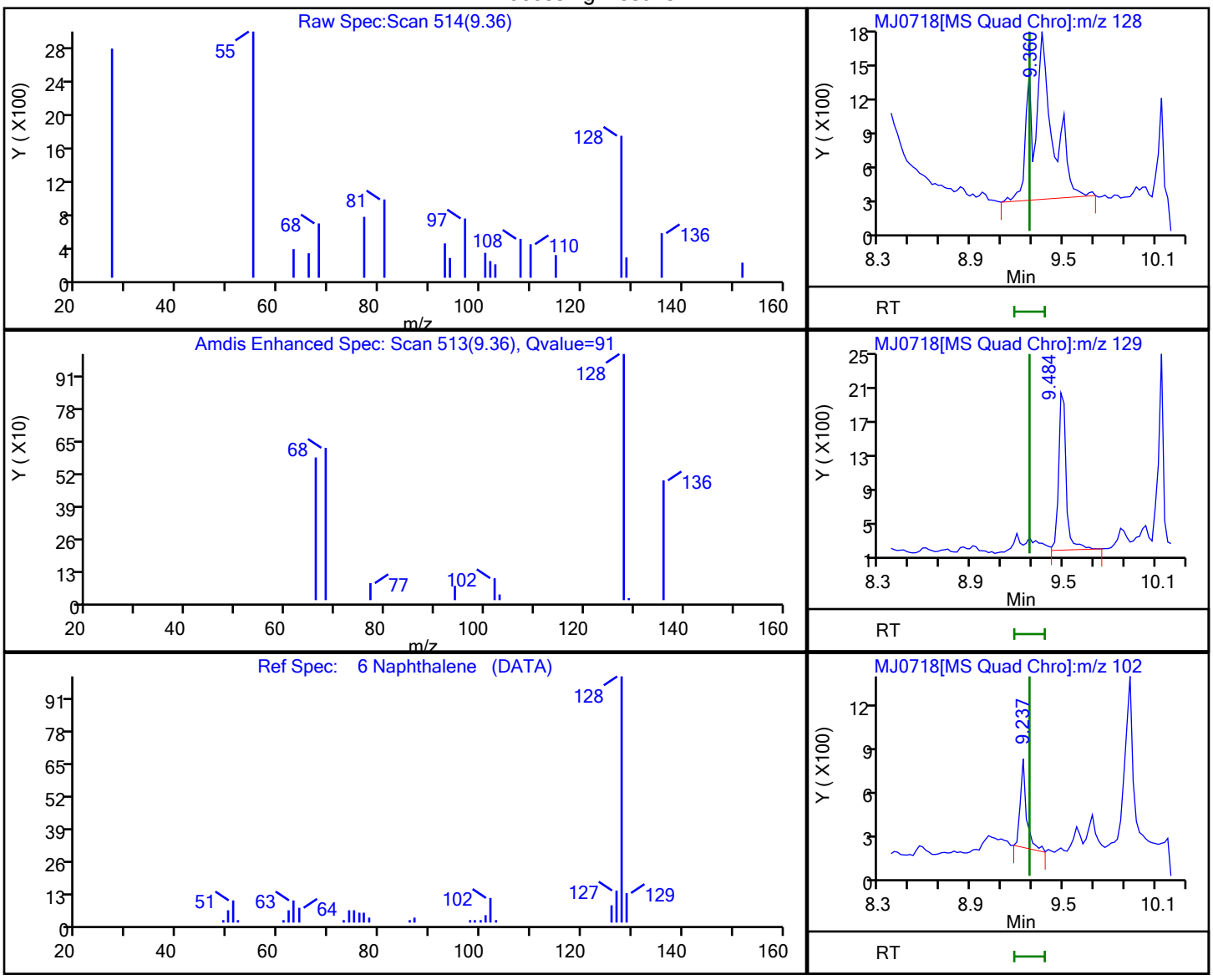
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
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		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
9.36	128.00	13214	0.011649
9.48	129.00	6320	
9.24	102.00	1686	

Reviewer: gamblerj, 13-Oct-2021 08:18:29

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

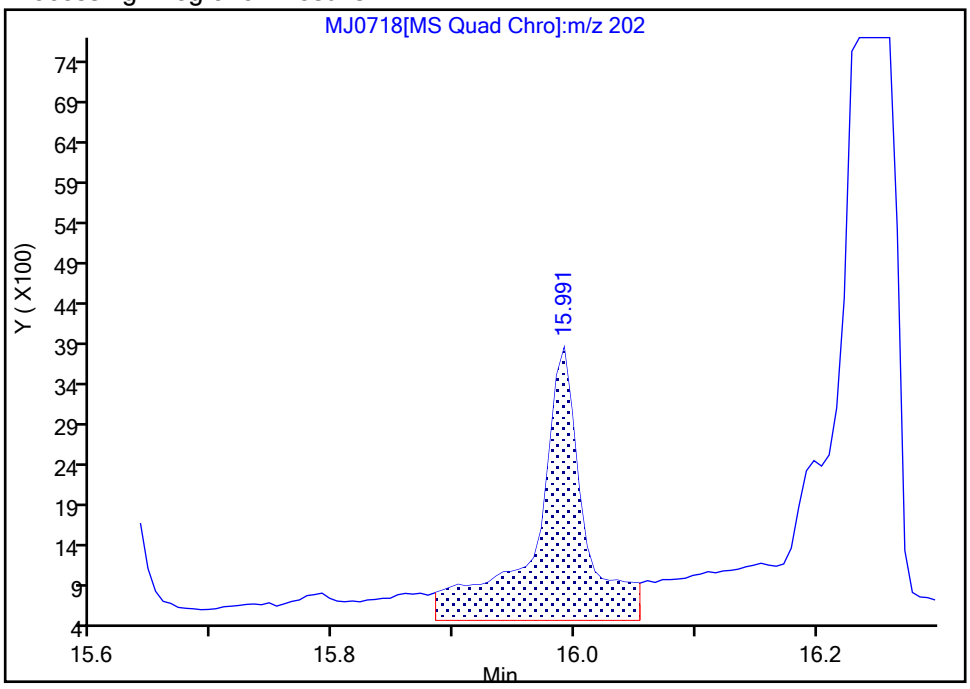
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0718.D				
Injection Date:	12-Oct-2021 12:00:48	Instrument ID:	HP21585		
Lims ID:	410-57303-B-1-A RE	Lab Sample ID:	410-57303-1		
Client ID:	MW-1-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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		

26 Pyrene, CAS: 129-00-0

Signal: 1

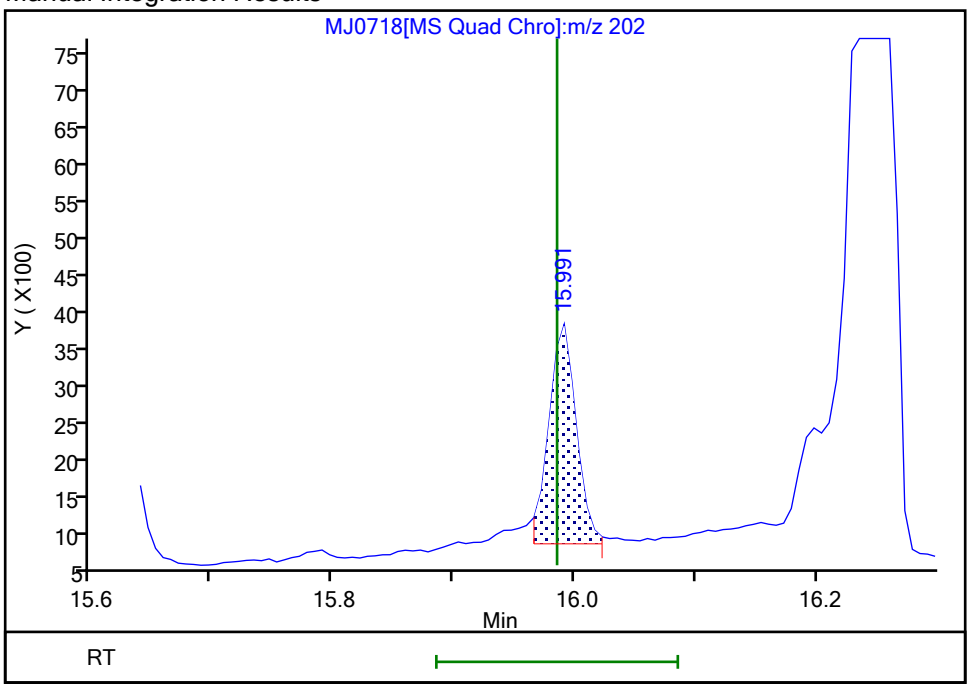
Processing Integration Results

RT: 15.99
Area: 9382
Amount: 0.007265
Amount Units: ug/ml



Manual Integration Results

RT: 15.99
Area: 4578
Amount: 0.003545
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:19:15

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-10S-20210928 Lab Sample ID: 410-57303-2

Matrix: Ground Water Lab File ID: MJ0516.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 13:37

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 243.9(mL) Date Analyzed: 10/07/2021 18:37

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.: 179971 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	0.012	J	0.051	0.010
50-32-8	Benzo[a]pyrene	0.011	J	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.013	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.011	J	0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	0.013	J	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.021
206-44-0	Fluoranthene	0.012	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	0.021
91-20-3	Naphthalene	0.036	J B	0.072	0.031
85-01-8	Phenanthrene	ND		0.072	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)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	85		36-111
93951-69-0	Fluoranthene-d10 (Surr)	106		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0516.D
Lims ID: 410-57303-A-2-A
Client ID: MW-10S-20210928
Sample Type: Client
Inject. Date: 07-Oct-2021 18:37:03 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-2-A
Misc. Info.: 410-0040957-017
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 04:04:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	94	60495	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	206847	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	93	8382	0.008723	
$ 9 1-Methylnaphthalene-d10	152	10.474	10.498	-0.001	100	84731	0.2116	
12 Acenaphthylene	152	11.795	11.795	0.012	96	667	0.000744	7M
* 13 Acenaphthene-d10	164	11.978	11.991	-0.013	94	107008	0.2500	
* 20 Phenanthrene-d10	188	13.897	13.889	0.008	95	188582	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.609	15.612	0.006	100	198206	0.2654	
25 Fluoranthene	202	15.634	15.634	0.000	99	2964	0.002874	M
26 Pyrene	202	16.004	16.004	0.013	100	4299	0.003494	M
28 Benzo[a]anthracene	228	18.055	18.063	0.007	99	3215	0.003018	
* 29 Chrysene-d12	240	18.070	18.063	0.007	55	185284	0.2500	
30 Chrysene	228	18.116	18.124	0.007	100	3755	0.003177	
33 Benzo[b]fluoranthene	252	19.972	19.980	0.038	100	3674	0.003234	M
34 Benzo[k]fluoranthene	252	20.011	20.019	0.031	98	1657	0.001367	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.440	20.448	0.000	99	150898	0.2119	
37 Benzo[a]pyrene	252	20.486	20.487	0.007	100	2776	0.002622	M
* 38 Perylene-d12	264	20.571	20.571	0.000	99	200208	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.418	22.433	0.063	98	2302	0.002708	M
42 Benzo[g,h,i]perylene	276	22.913	22.858	0.064	100	2816	0.002711	

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

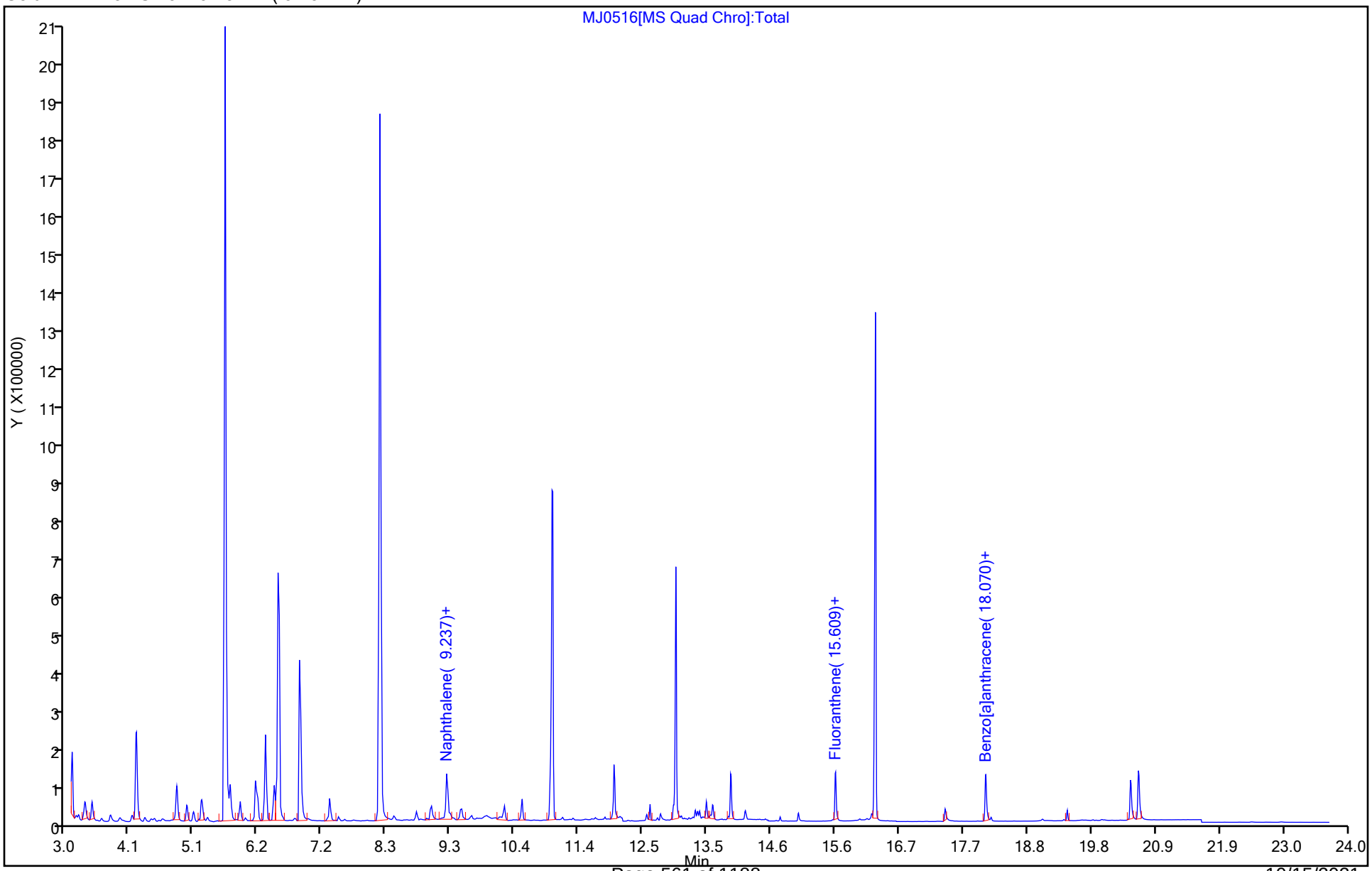
Report Date: 08-Oct-2021 04:11:12 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0516.D

Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2	Worklist Smp#:	17
Client ID:	MW-10S-20210928				
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)

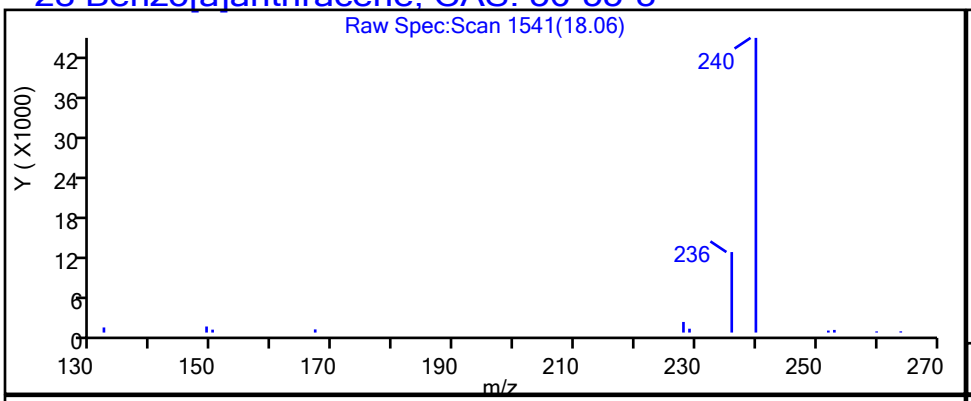


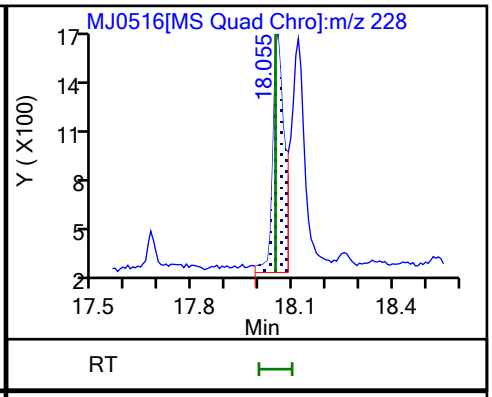
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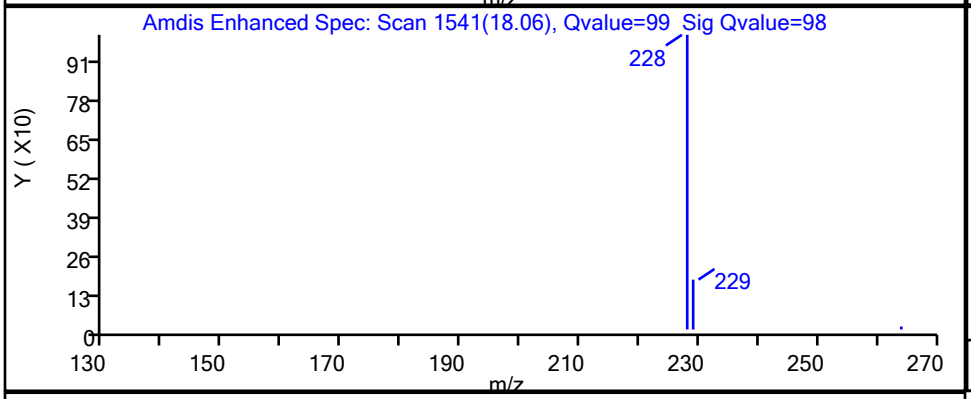
Eurofins Lancaster Laboratories Env, LLC

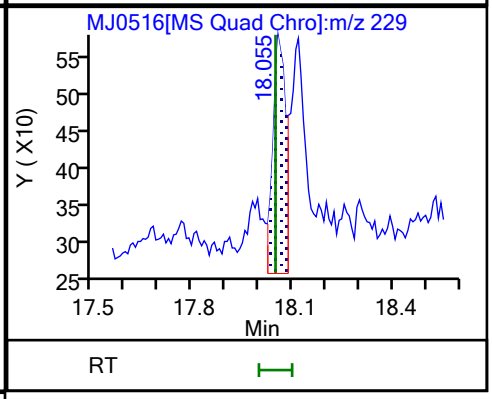
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0516.D		
Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2
Client ID:	MW-10S-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

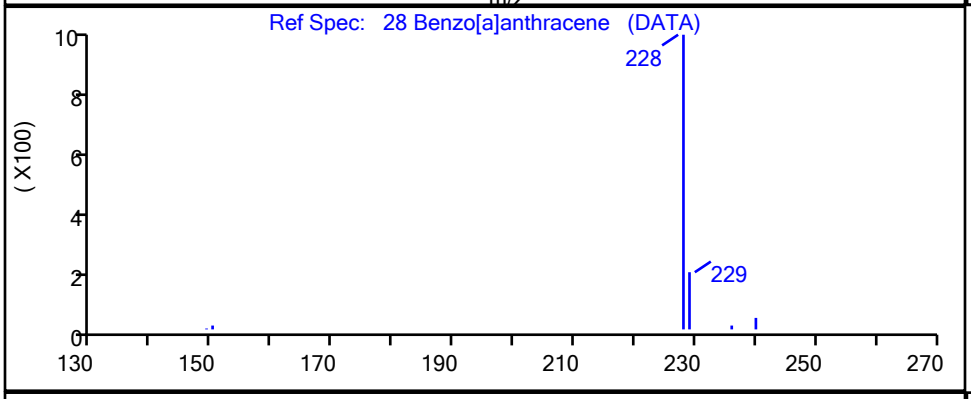
28 Benzo[a]anthracene, CAS: 56-55-3

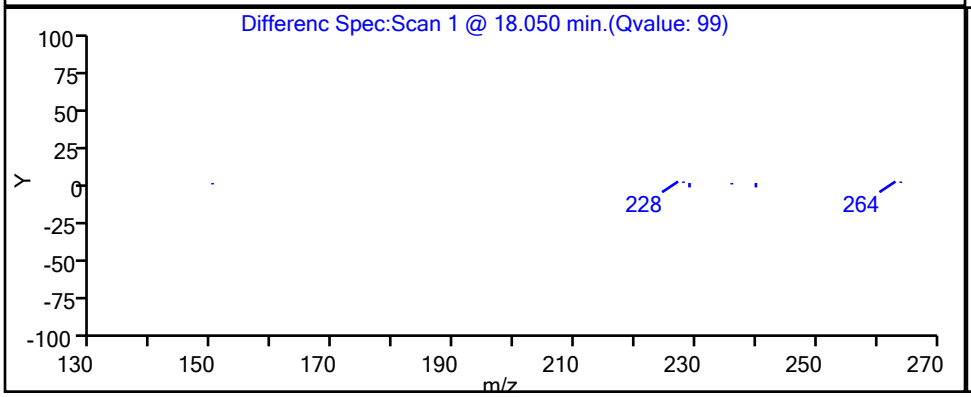


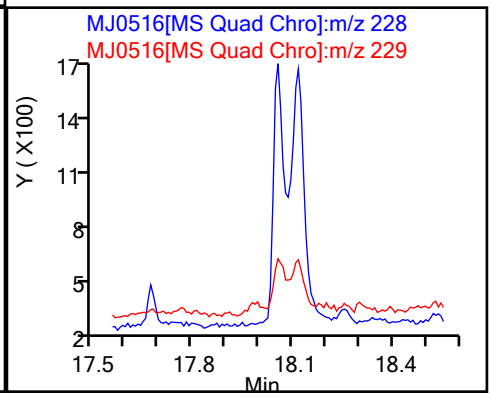










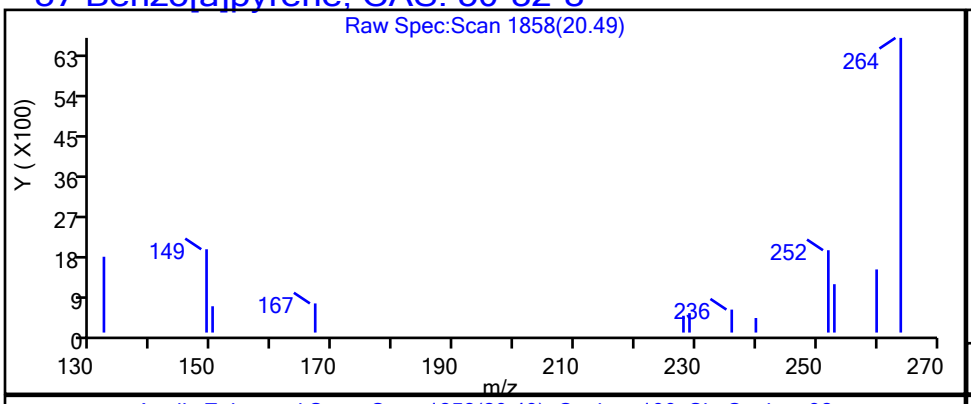


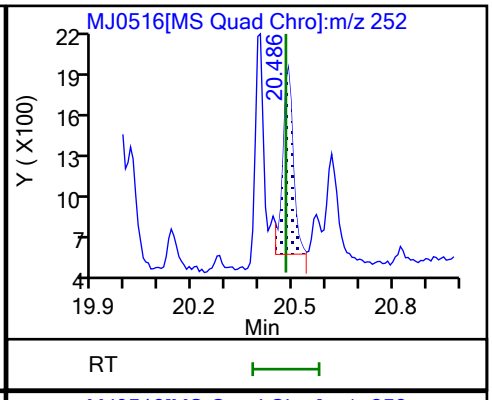
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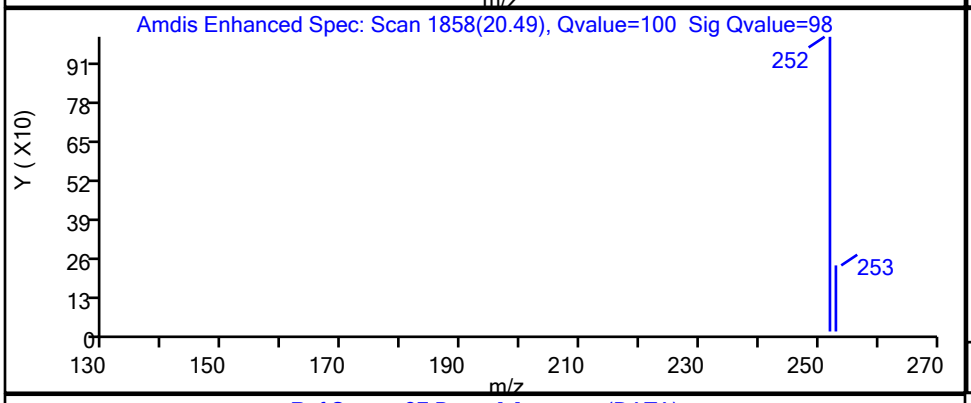
Eurofins Lancaster Laboratories Env, LLC

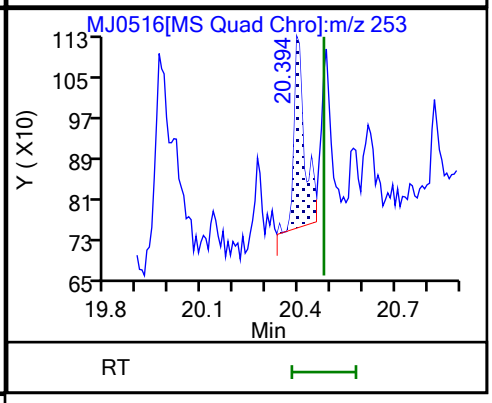
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Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2
Client ID:	MW-10S-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

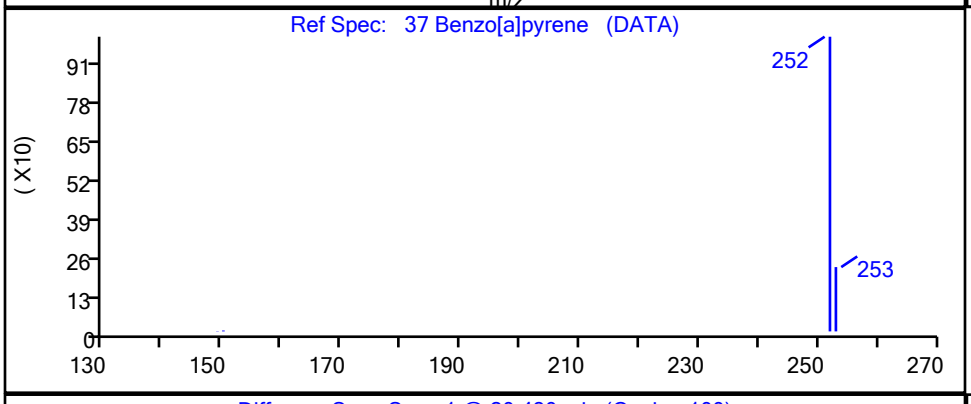
37 Benzo[a]pyrene, CAS: 50-32-8

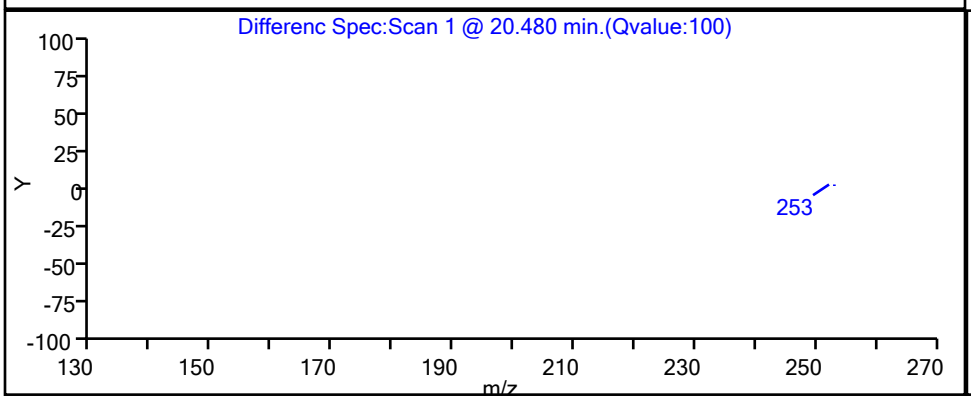


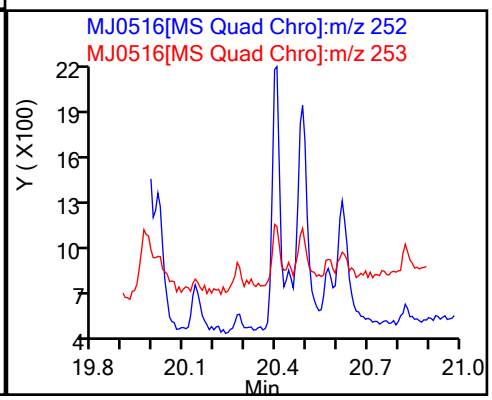








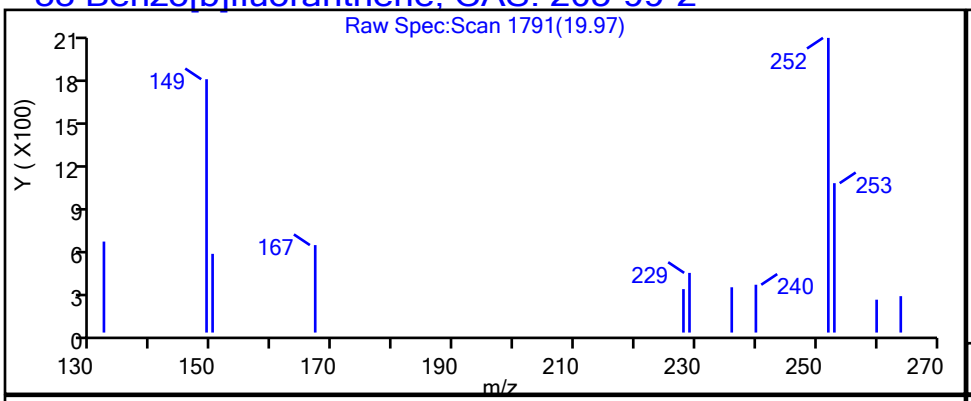


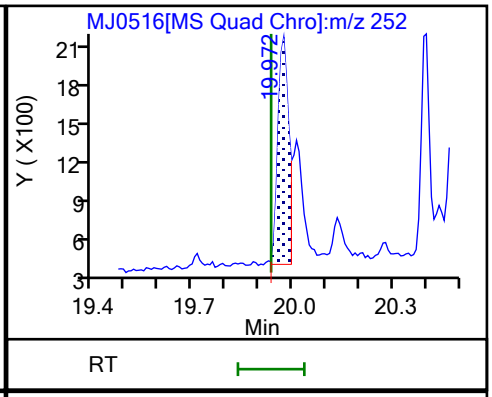


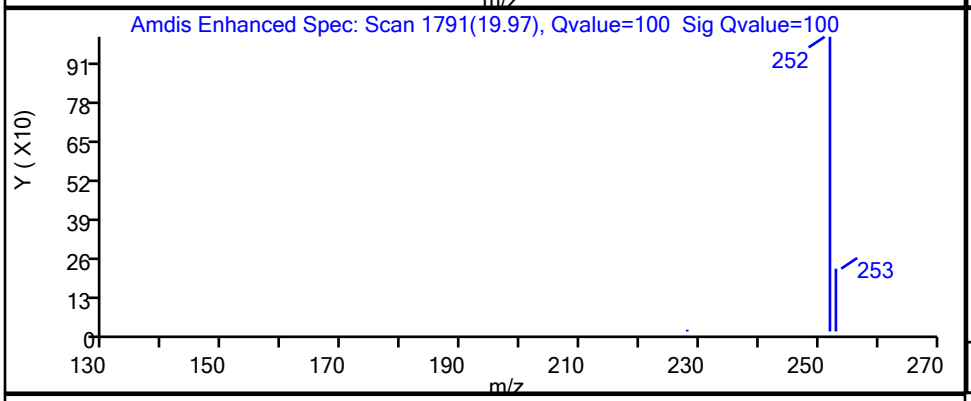
Eurofins Lancaster Laboratories Env, LLC

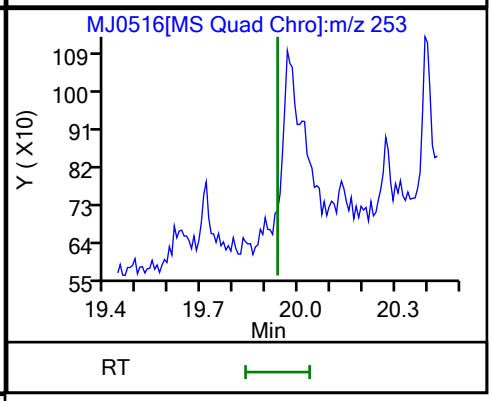
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Client ID:	MW-10S-20210928				
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

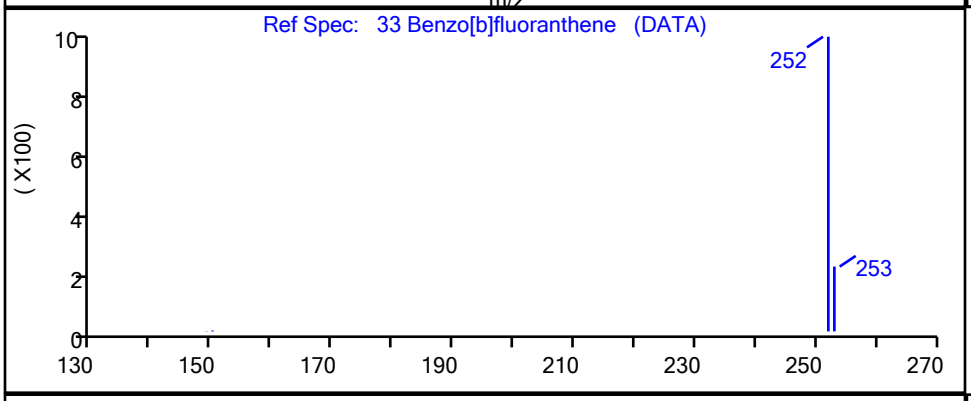
33 Benzo[b]fluoranthene, CAS: 205-99-2

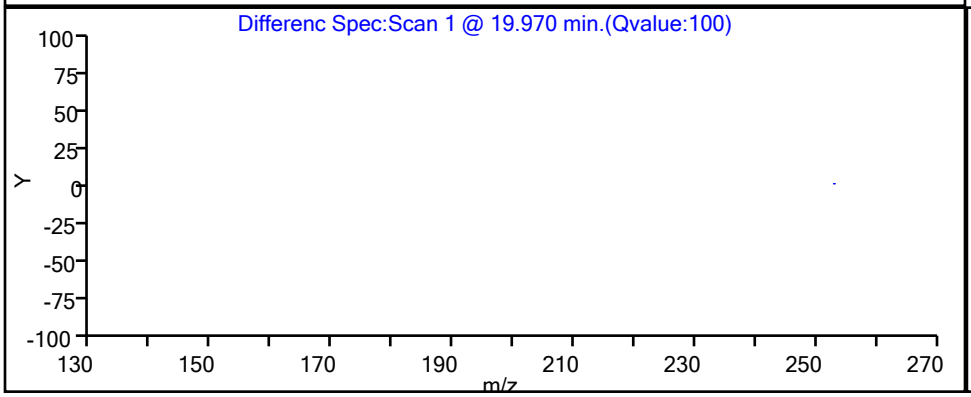


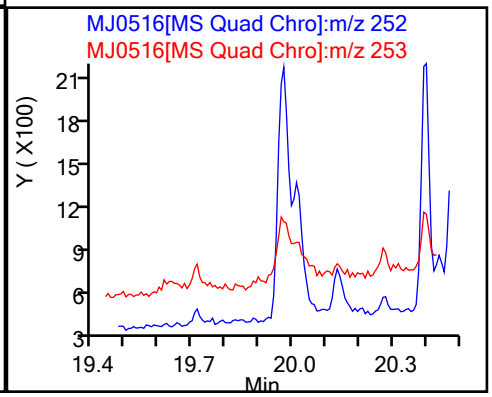










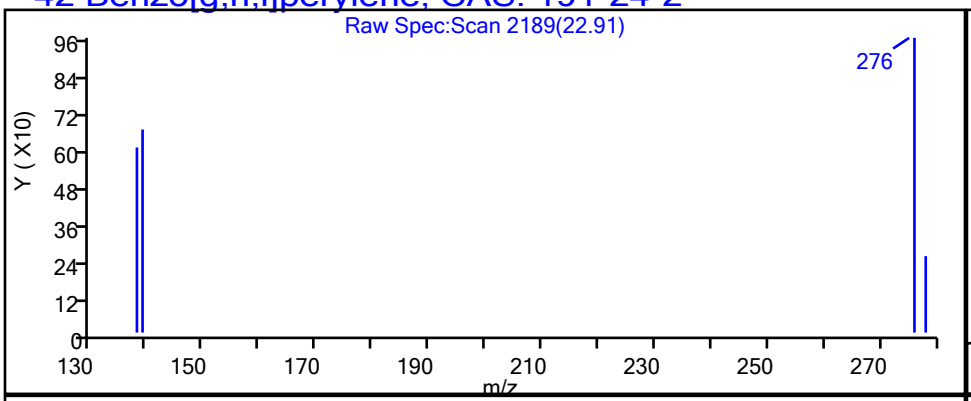


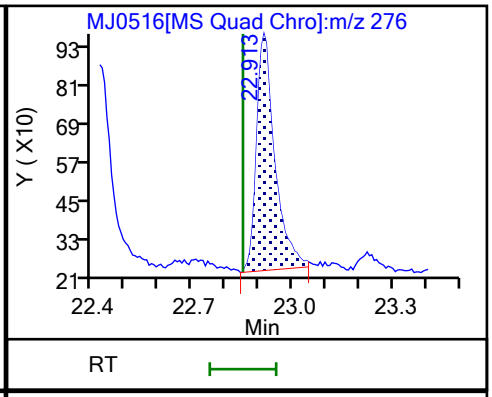
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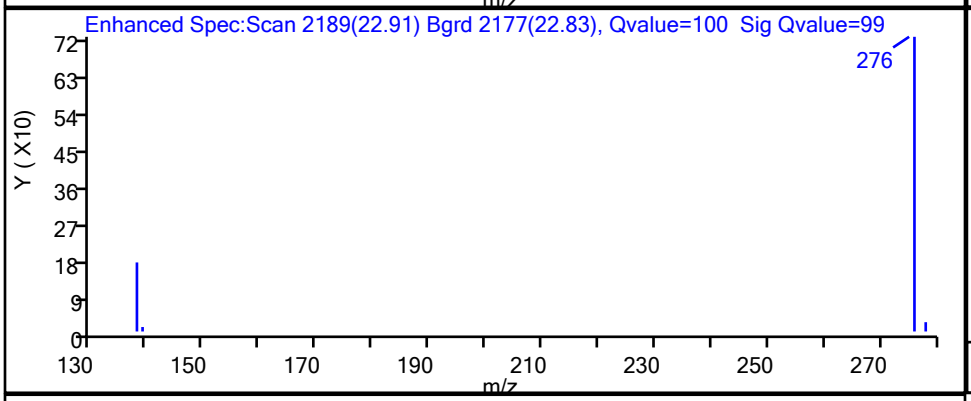
Eurofins Lancaster Laboratories Env, LLC

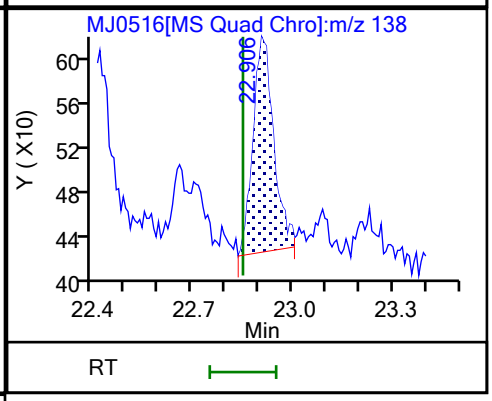
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

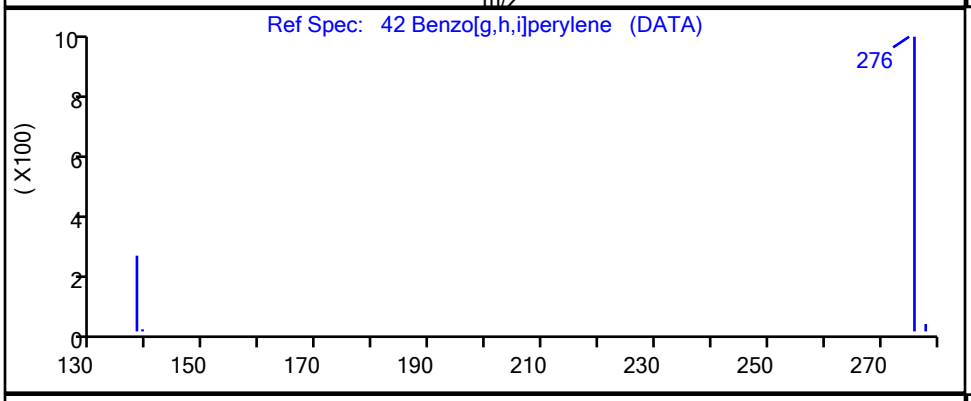
42 Benzo[g,h,i]perylene, CAS: 191-24-2

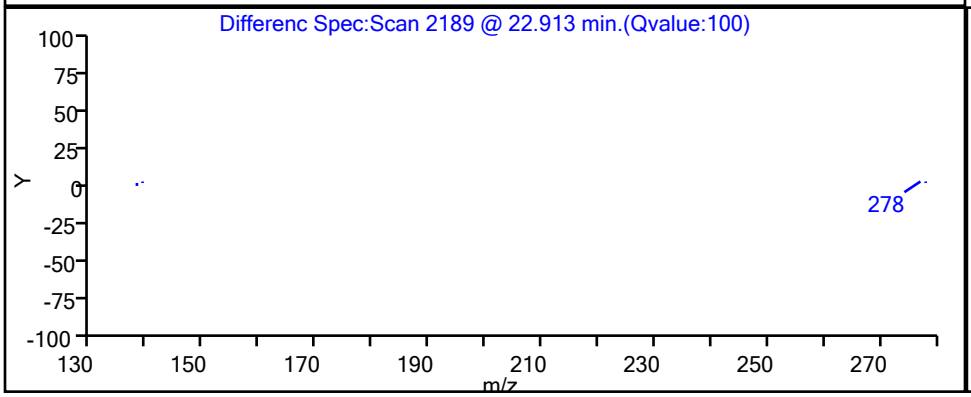


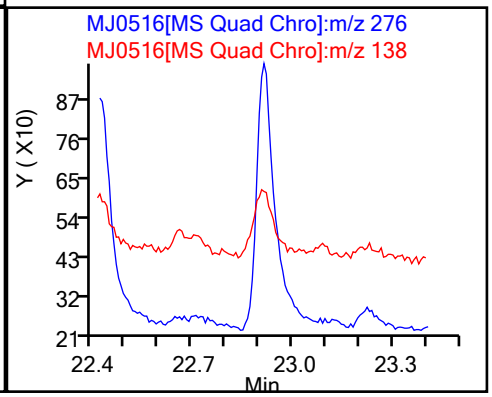










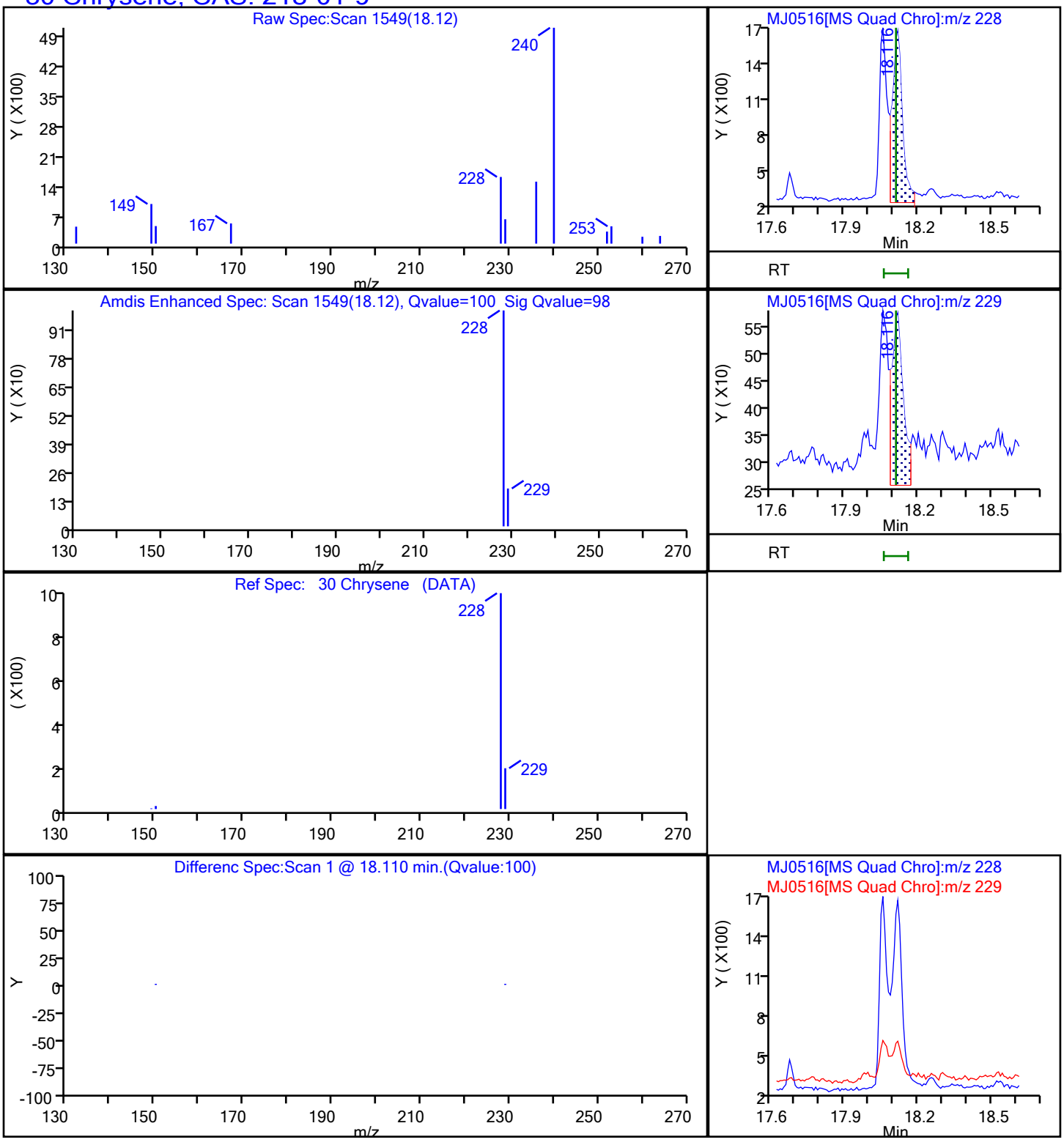


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Eurofins Lancaster Laboratories Env, LLC

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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



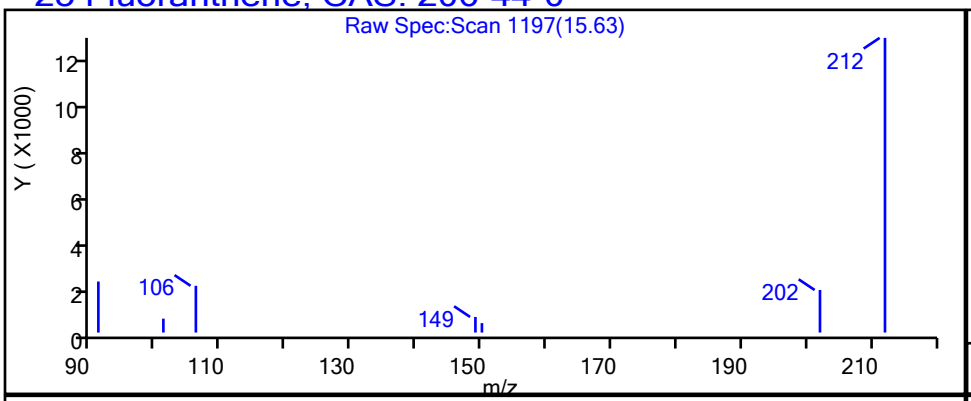
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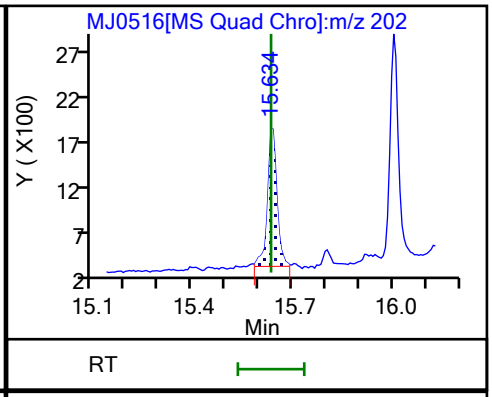
Eurofins Lancaster Laboratories Env, LLC

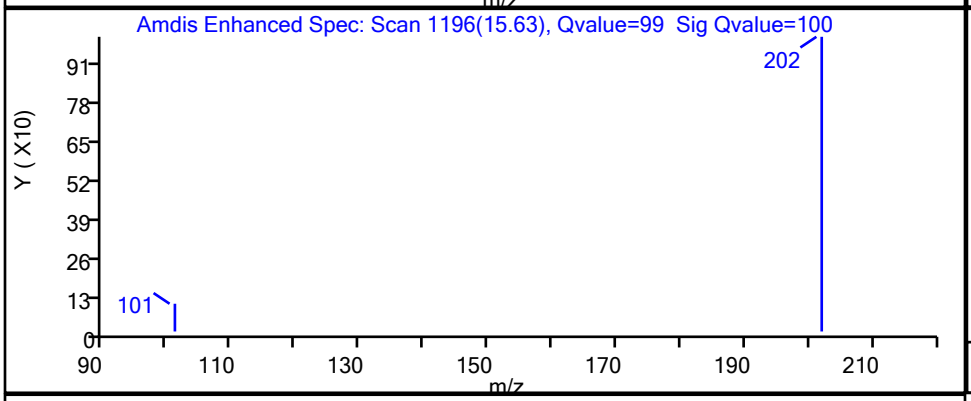
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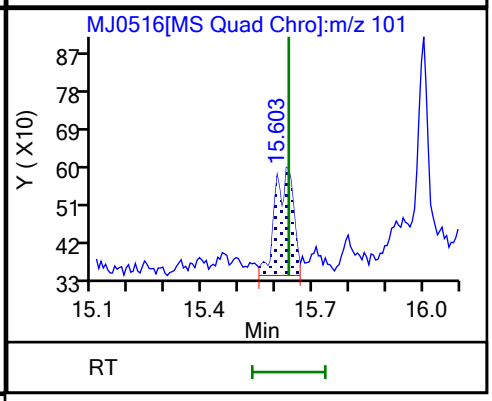
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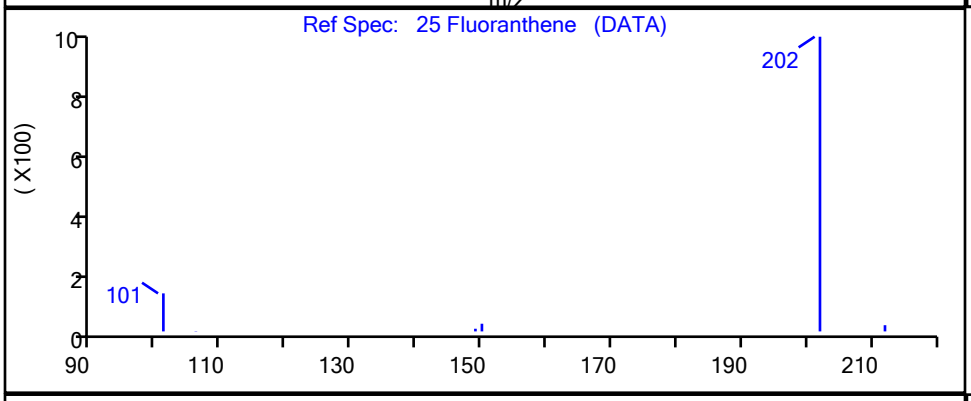
25 Fluoranthene, CAS: 206-44-0

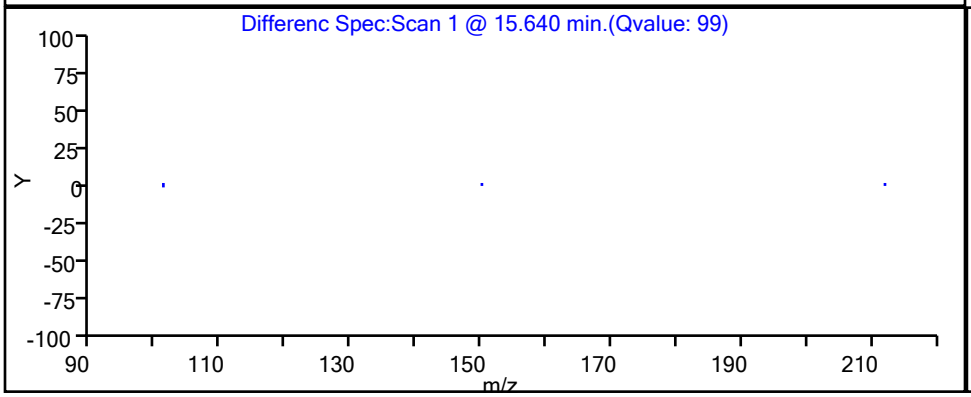


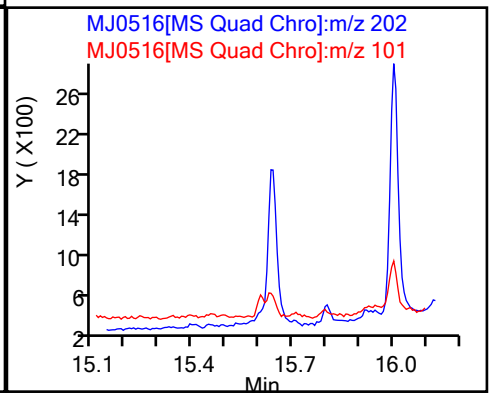












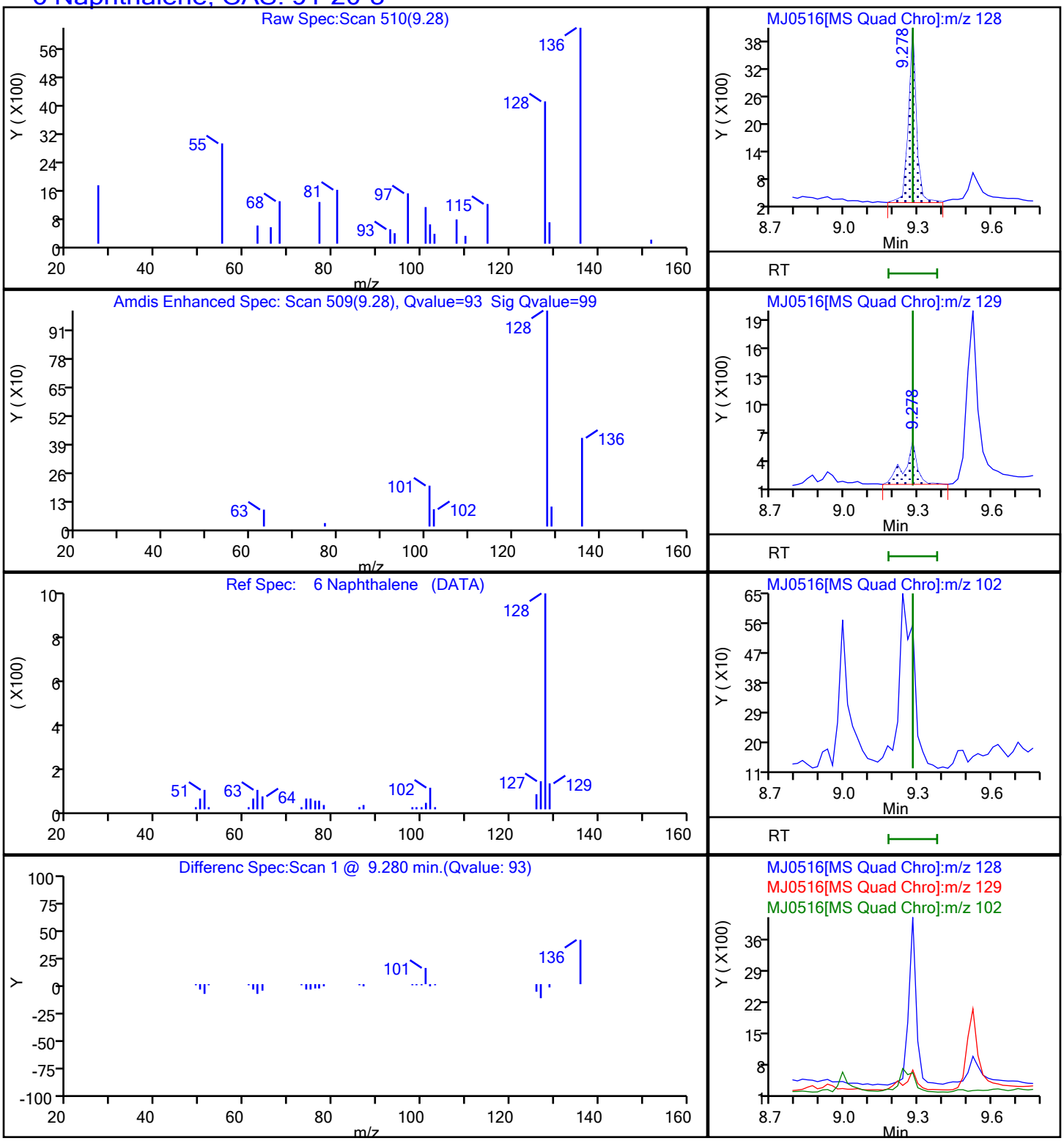
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Eurofins Lancaster Laboratories Env, LLC

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Client ID:	MW-10S-20210928		
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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



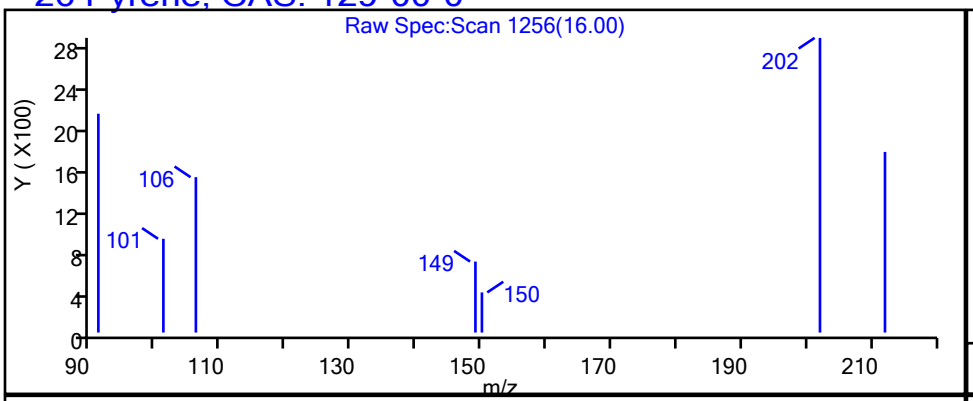
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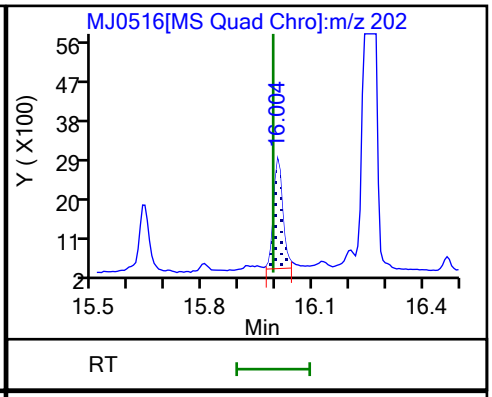
Eurofins Lancaster Laboratories Env, LLC

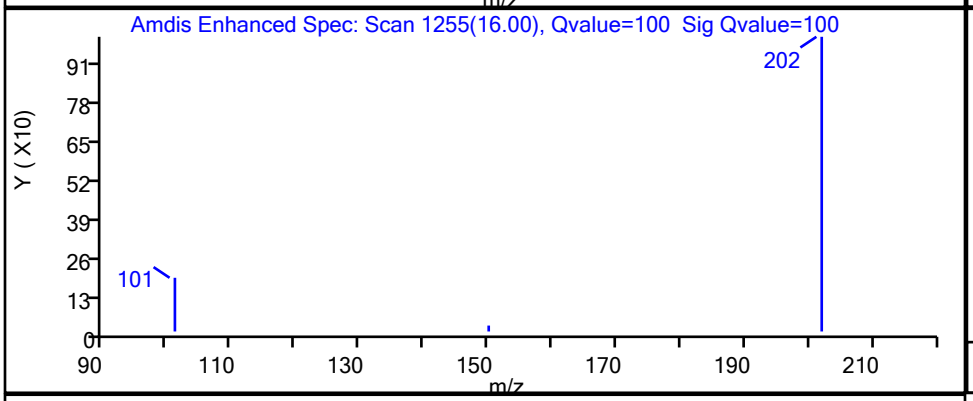
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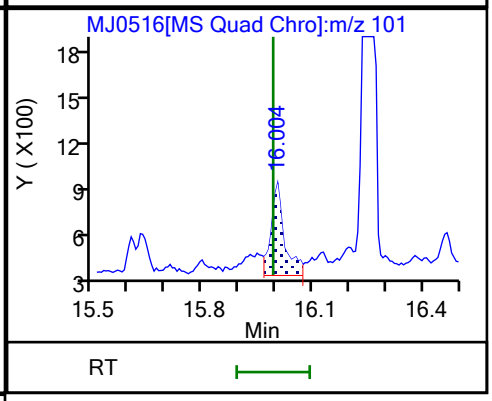
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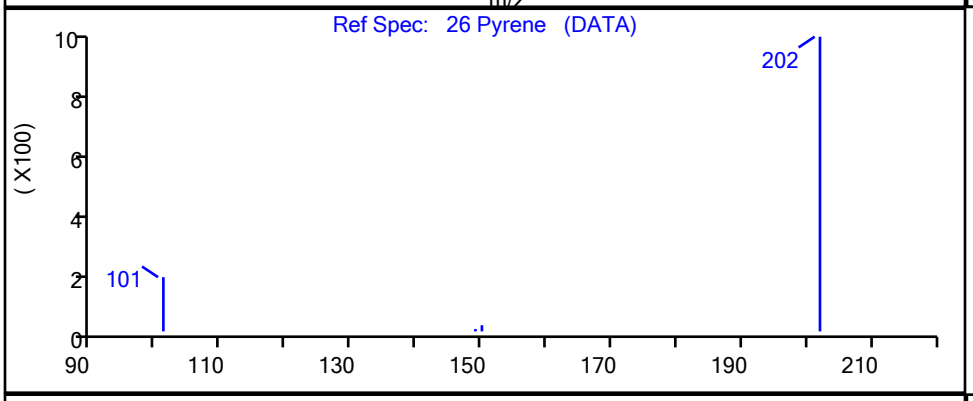
26 Pyrene, CAS: 129-00-0

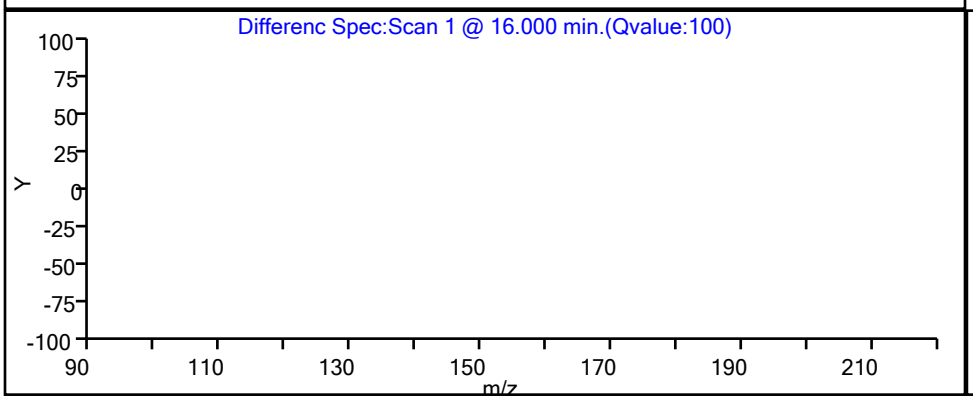


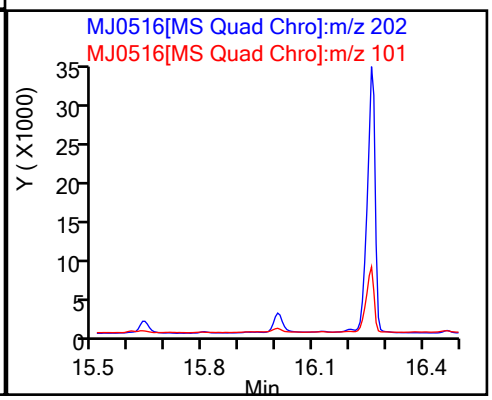












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

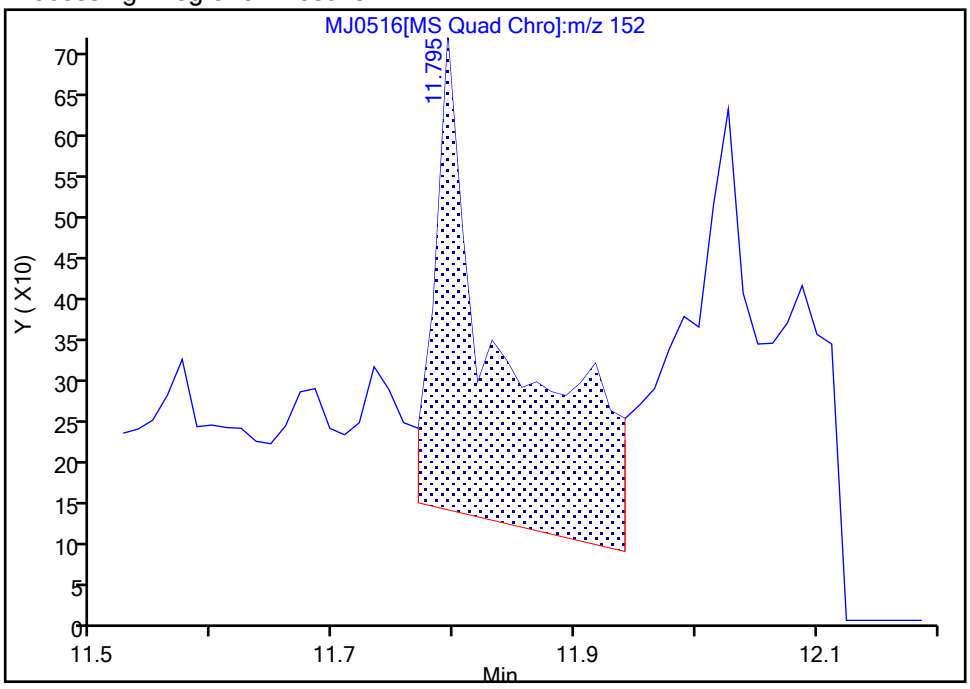
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

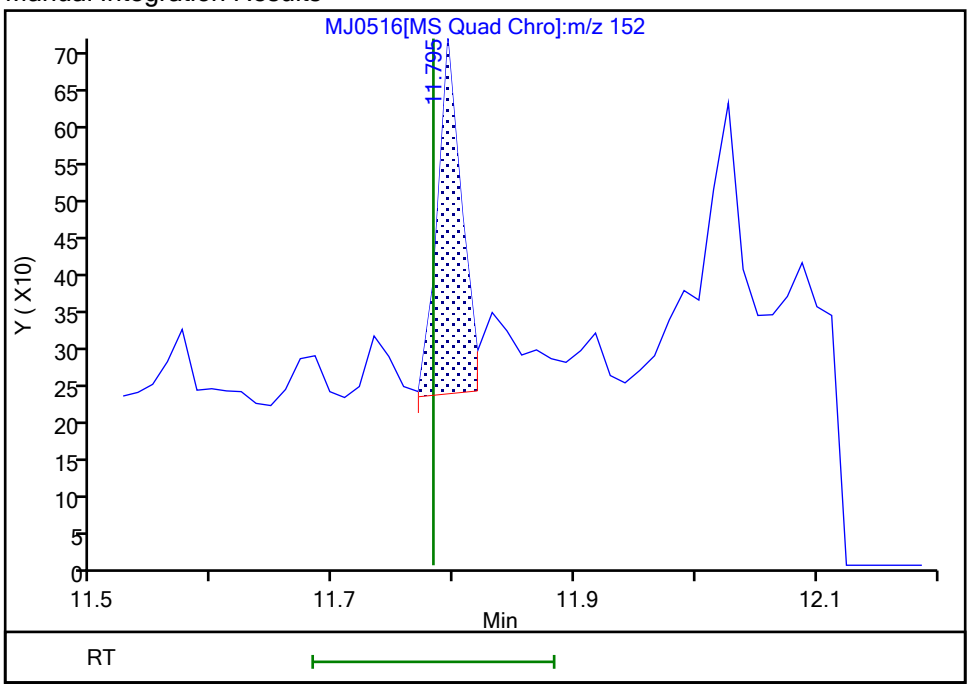
Processing Integration Results

RT: 11.79
Area: 2333
Amount: 0.002604
Amount Units: ug/ml



Manual Integration Results

RT: 11.79
Area: 667
Amount: 0.000744
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:01:51

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

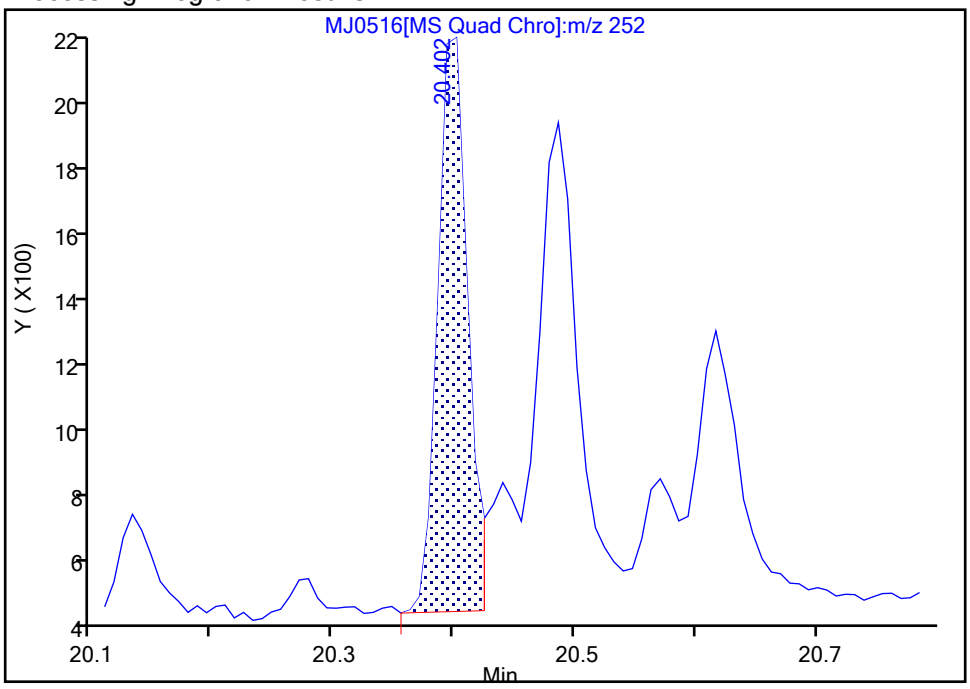
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

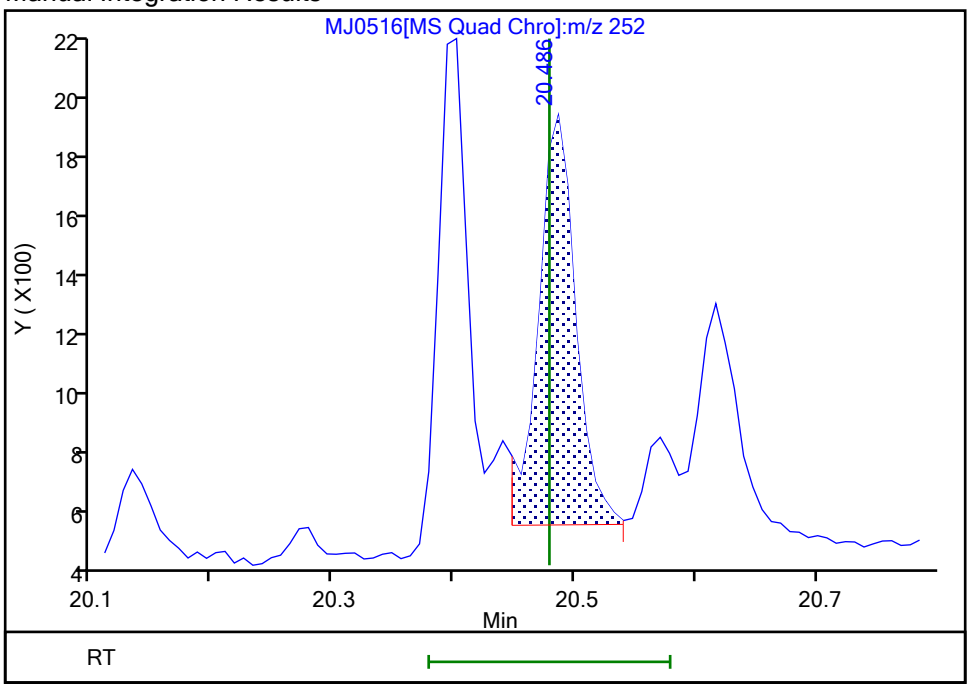
Processing Integration Results

RT: 20.40
Area: 2808
Amount: 0.002652
Amount Units: ug/ml



Manual Integration Results

RT: 20.49
Area: 2776
Amount: 0.002622
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:03:19

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

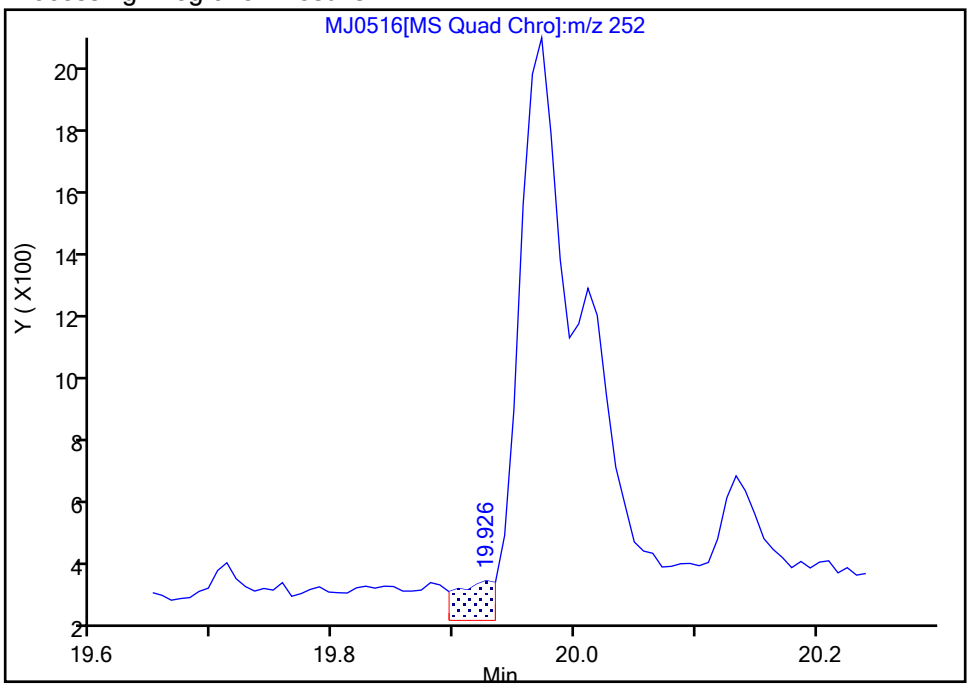
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

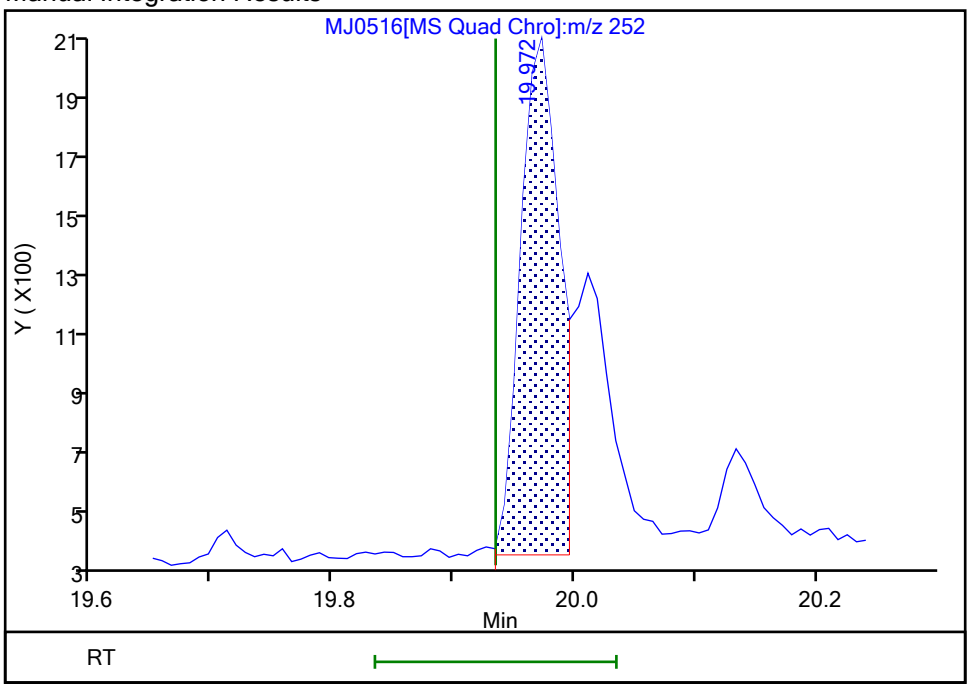
Processing Integration Results

RT: 19.93
Area: 242
Amount: 0.000213
Amount Units: ug/ml



Manual Integration Results

RT: 19.97
Area: 3674
Amount: 0.003234
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:02:36
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

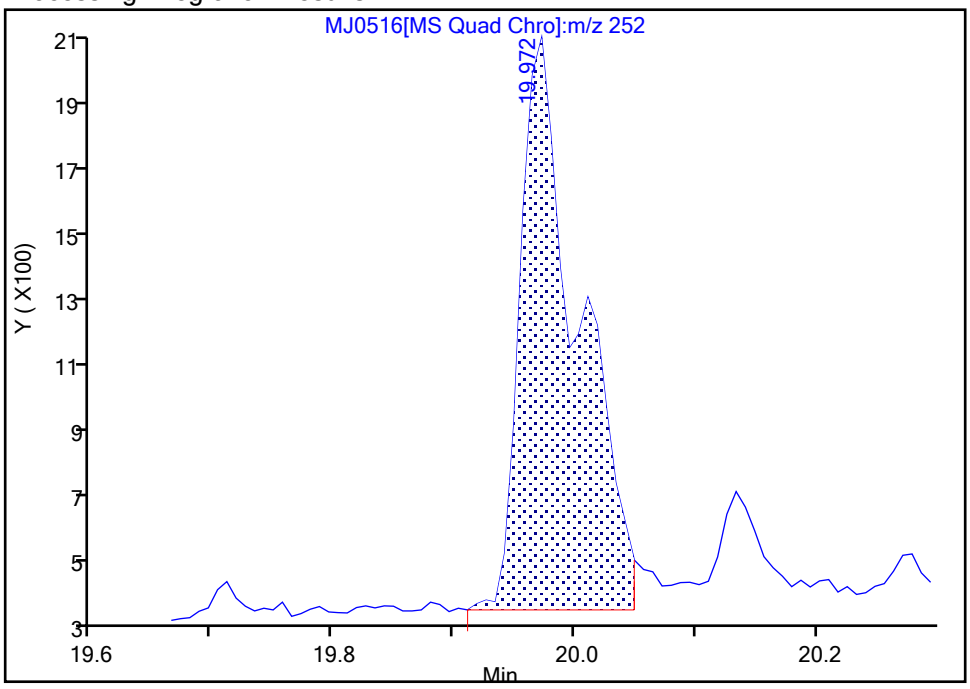
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Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585		
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

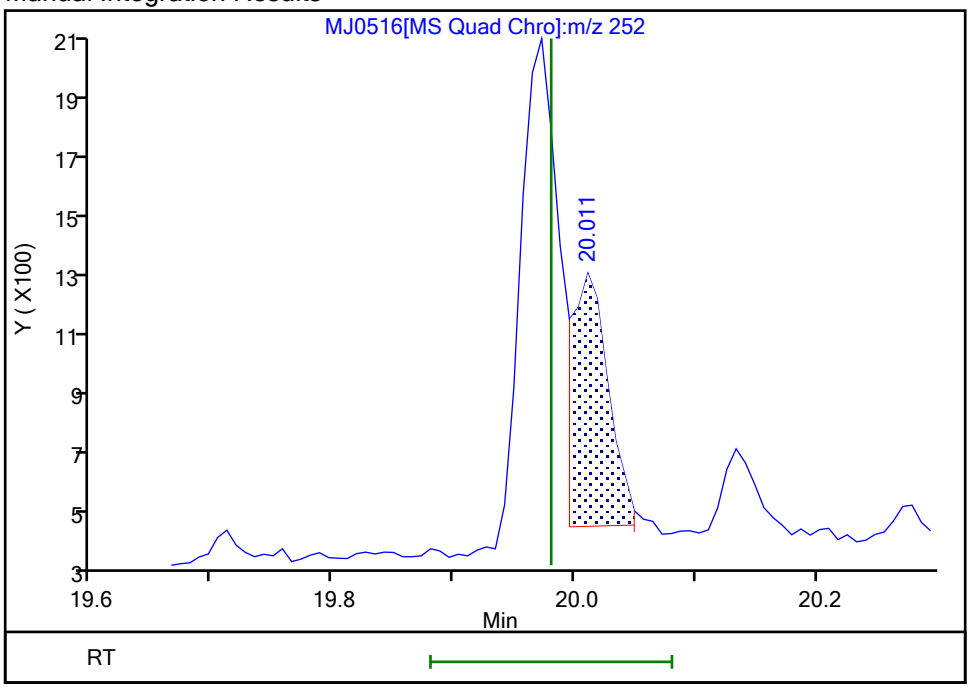
Processing Integration Results

RT: 19.97
Area: 5685
Amount: 0.004690
Amount Units: ug/ml



Manual Integration Results

RT: 20.01
Area: 1657
Amount: 0.001367
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:02:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

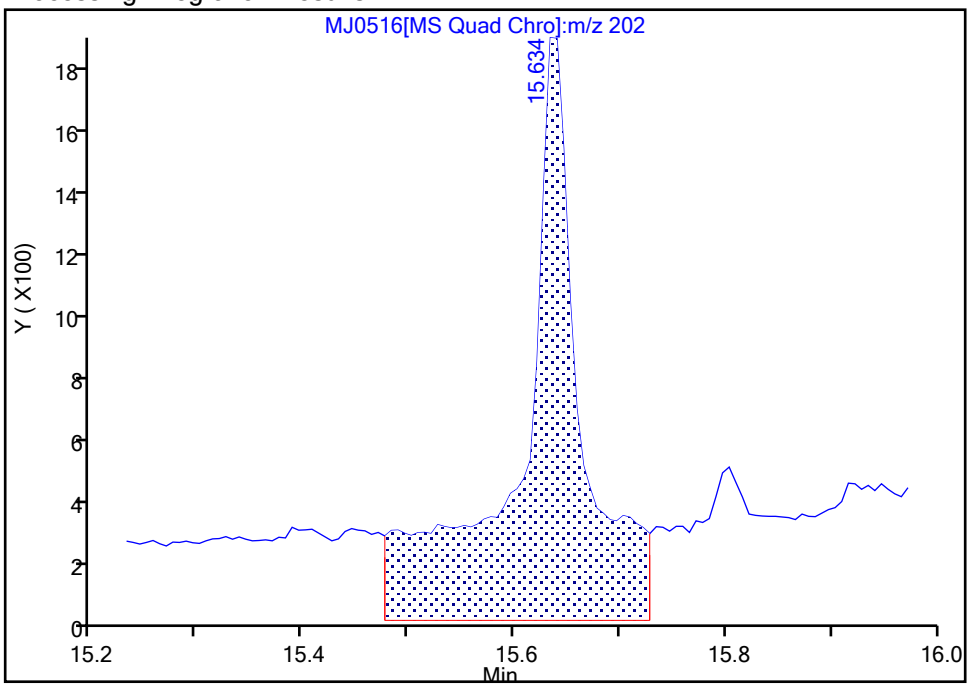
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0516.D				
Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585		
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	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

Signal: 1

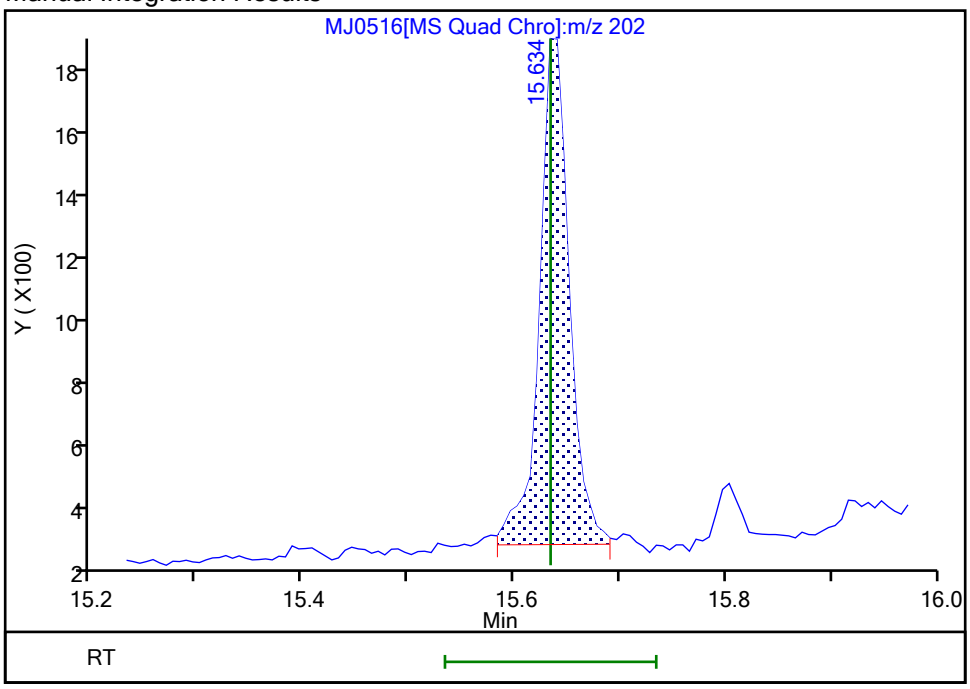
Processing Integration Results

RT: 15.63
Area: 7360
Amount: 0.007137
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 2964
Amount: 0.002874
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:02:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

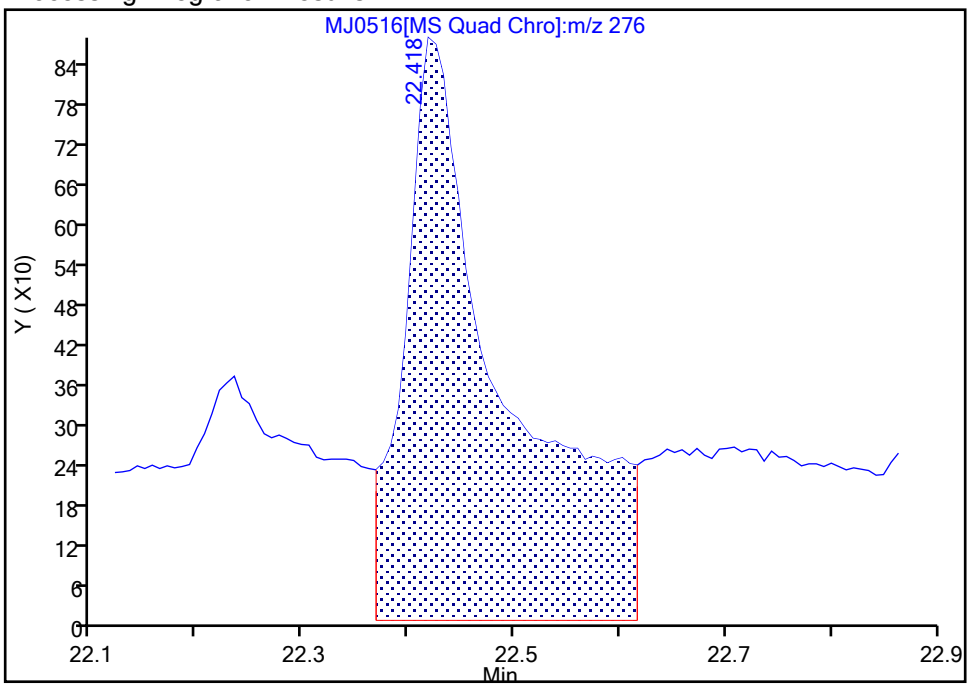
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0516.D				
Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585		
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	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		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

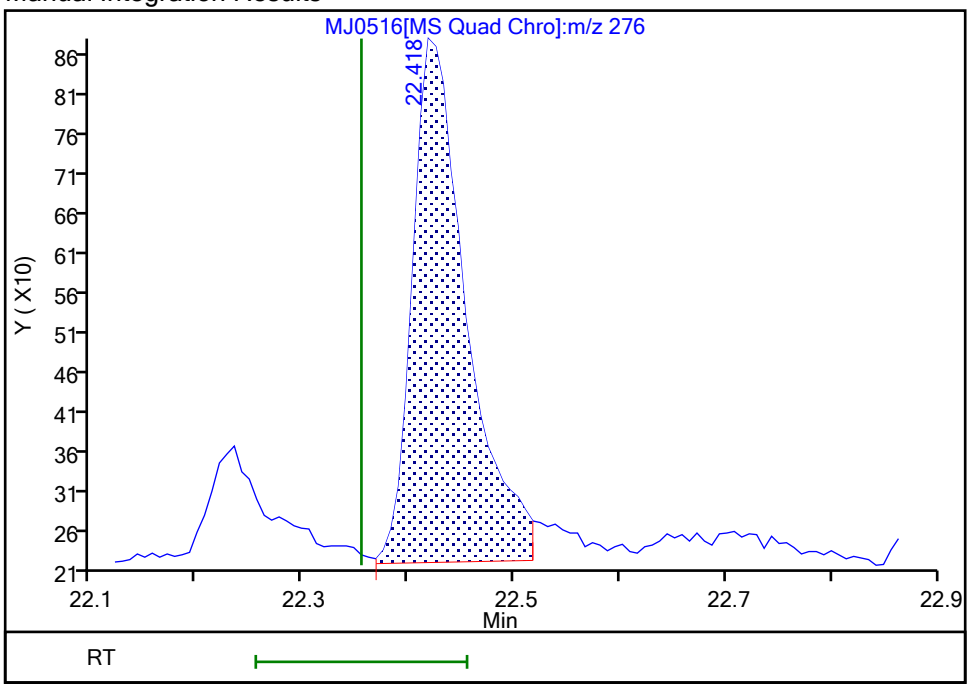
Processing Integration Results

RT: 22.42
Area: 5756
Amount: 0.006772
Amount Units: ug/ml



Manual Integration Results

RT: 22.42
Area: 2302
Amount: 0.002708
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:03:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

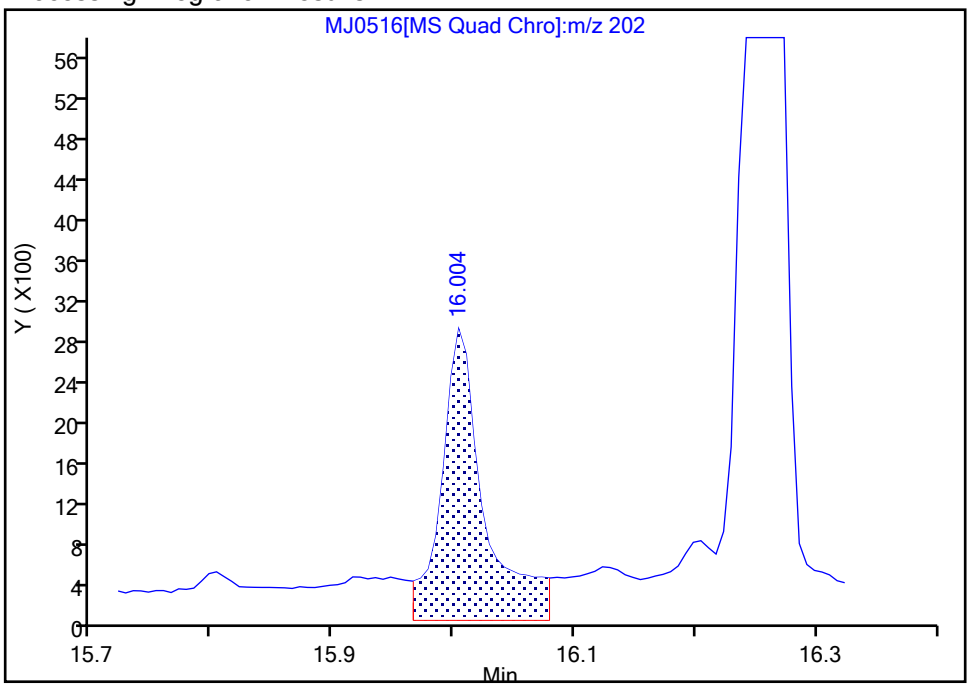
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0516.D				
Injection Date:	07-Oct-2021 18:37:03	Instrument ID:	HP21585		
Lims ID:	410-57303-A-2-A	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	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

Signal: 1

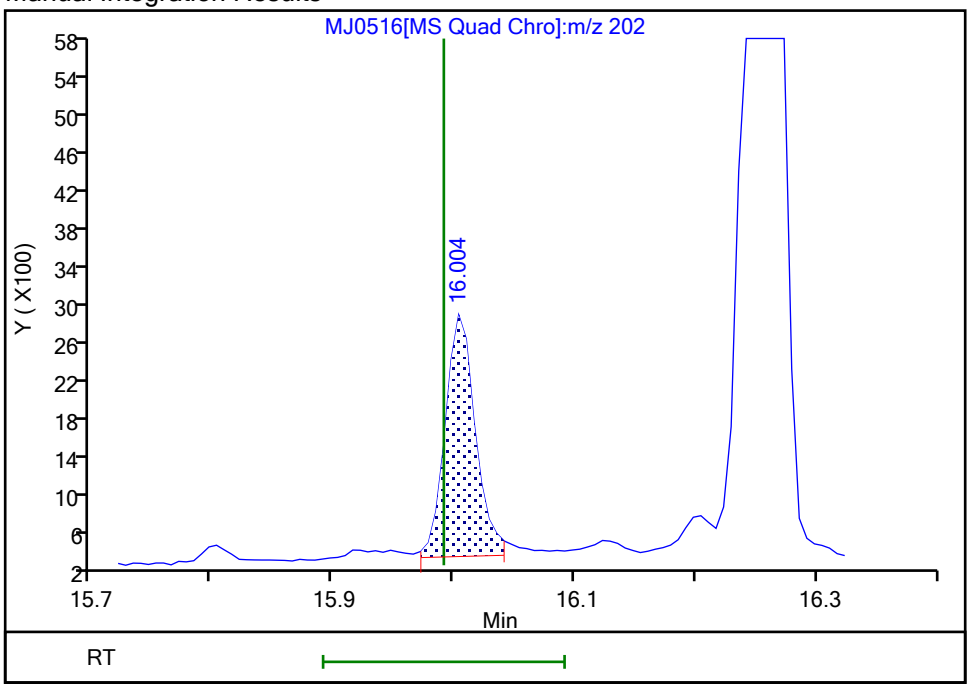
Processing Integration Results

RT: 16.00
Area: 6950
Amount: 0.005649
Amount Units: ug/ml



Manual Integration Results

RT: 16.00
Area: 4299
Amount: 0.003494
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:02:23

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-10S-20210928 RE Lab Sample ID: 410-57303-2 RE

Matrix: Ground Water Lab File ID: MJ0719.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 13:37

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 242.6(mL) Date Analyzed: 10/12/2021 12:30

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.: 181586 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*	*0.012*	*J H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.011*	*J H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.015*	*J H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.011*	*J H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*0.014*	*J H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.013*	*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*	*0.015*	*J H*	*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)	77		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\20211012-41301.b\MJ0719.D
Lims ID: 410-57303-B-2-A RE
Client ID: MW-10S-20210928
Sample Type: Client
Inject. Date: 12-Oct-2021 12:30:32 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-2-A
Misc. Info.: 410-0041301-010
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:20:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	98	68741	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	253810	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	94606	0.1926	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	98	128710	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	96	214292	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.605	-0.001	100	178269	0.2100	
25 Fluoranthene	202	15.628	15.628	0.000	100	3700	0.003157	M
26 Pyrene	202	15.998	15.979	0.013	100	4599	0.003600	M
28 Benzo[a]anthracene	228	18.040	18.040	0.008	100	3223	0.002915	
* 29 Chrysene-d12	240	18.055	18.055	0.000	55	192359	0.2500	
30 Chrysene	228	18.109	18.109	0.008	100	4019	0.003275	
33 Benzo[b]fluoranthene	252	19.957	19.957	0.038	100	4494	0.003721	M
34 Benzo[k]fluoranthene	252	20.003	20.003	0.030	100	1670	0.001296	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.433	0.008	100	147312	0.1946	
37 Benzo[a]pyrene	252	20.471	20.471	0.007	100	3125	0.002777	M
* 38 Perylene-d12	264	20.563	20.556	0.007	100	212813	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.411	22.390	0.077	98	2472	0.002736	M
42 Benzo[g,h,i]perylene	276	22.906	22.844	0.071	100	3056	0.002768	

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

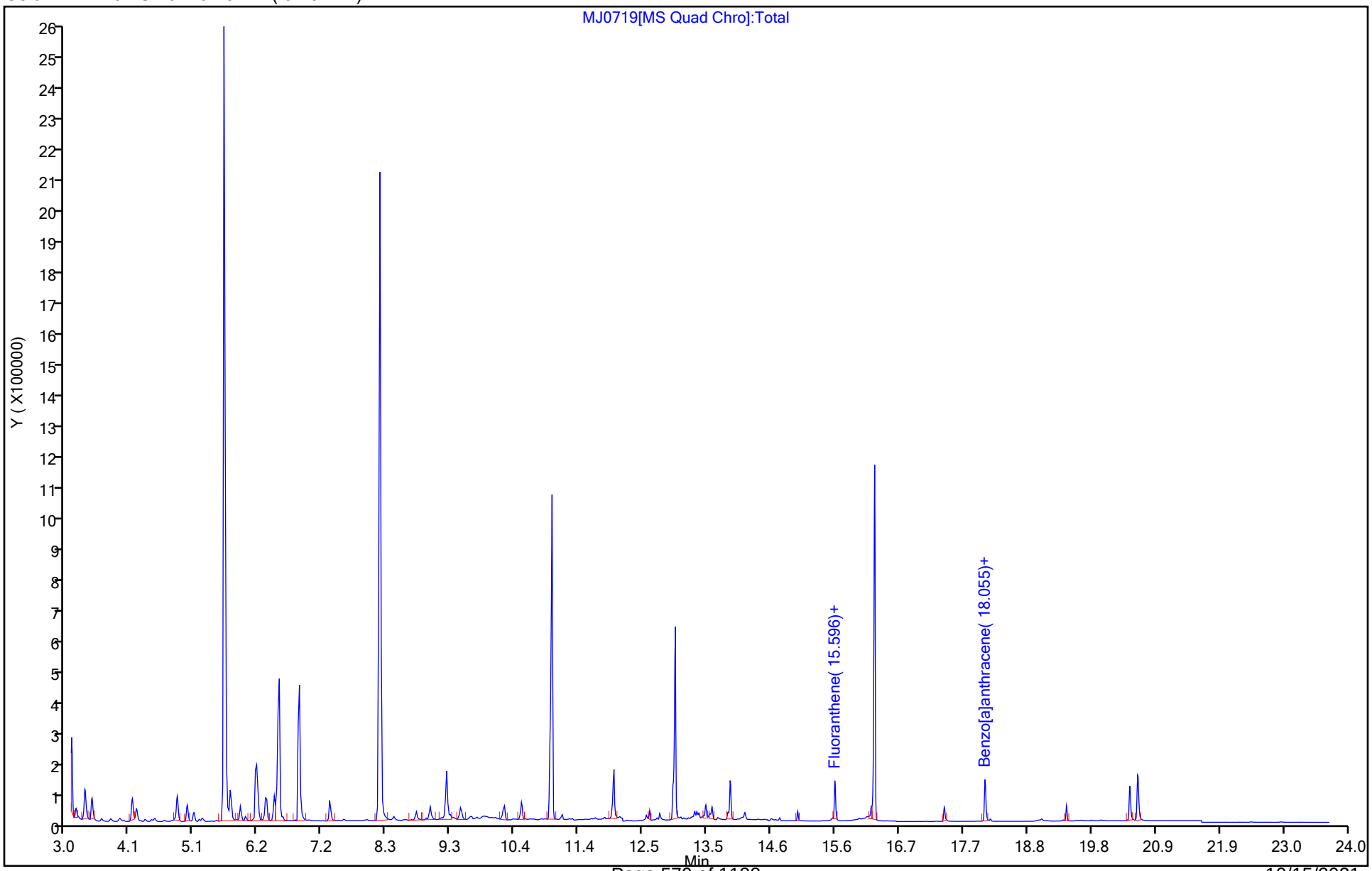
Report Date: 13-Oct-2021 08:30:52 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0719.D

Injection Date:	12-Oct-2021 12:30:32	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2	Worklist Smp#:	10
Client ID:	MW-10S-20210928				
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)



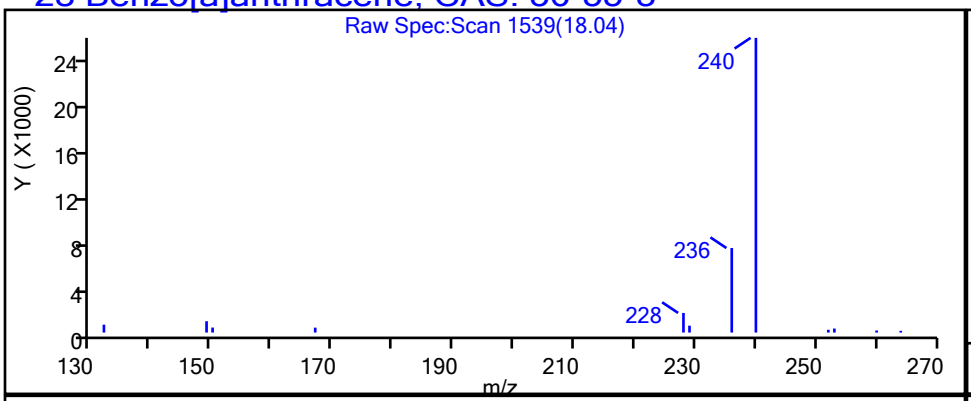
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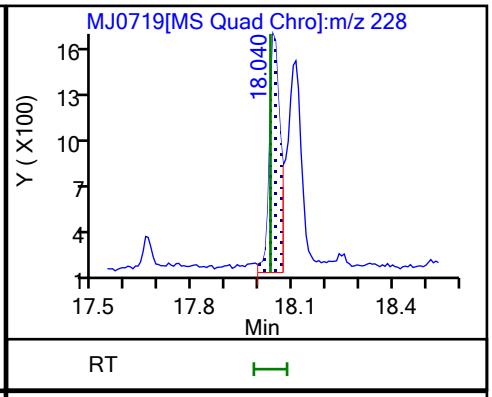
Eurofins Lancaster Laboratories Env, LLC

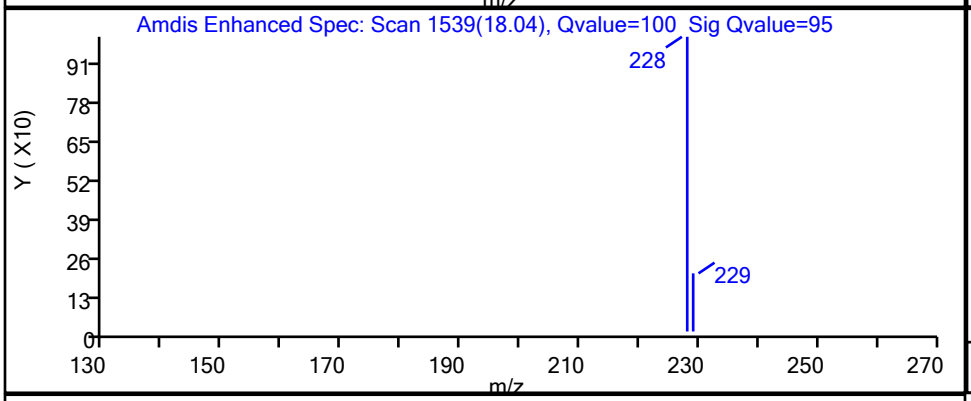
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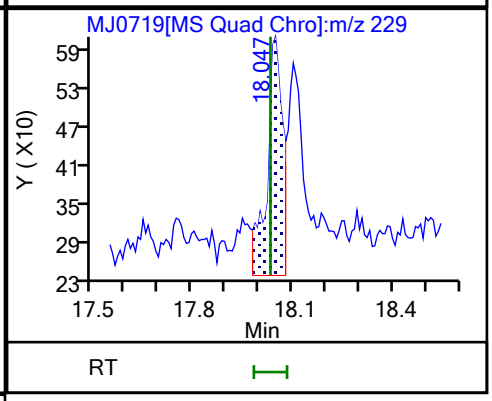
Injection Date:	12-Oct-2021 12:30:32	Instrument ID:	HP21585		
Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

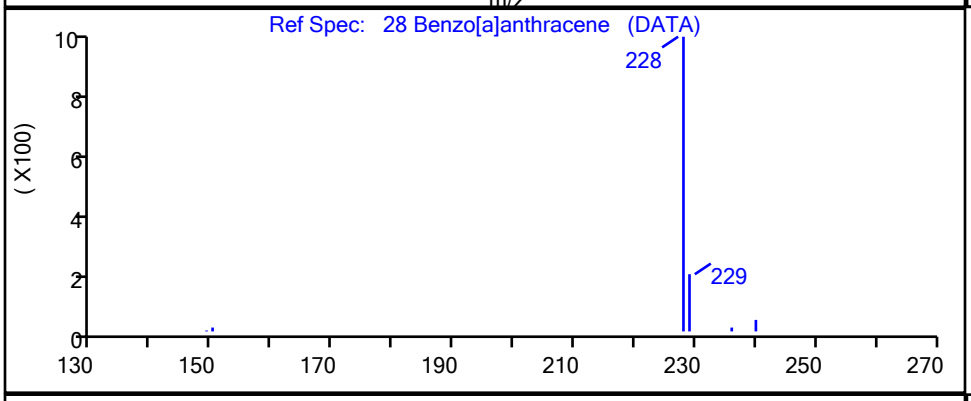
28 Benzo[a]anthracene, CAS: 56-55-3

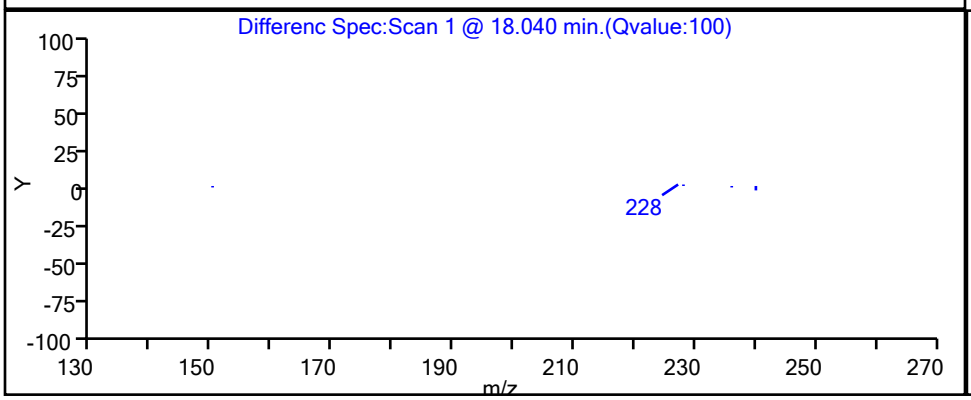


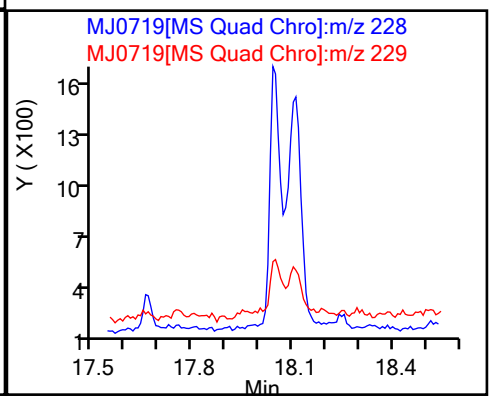










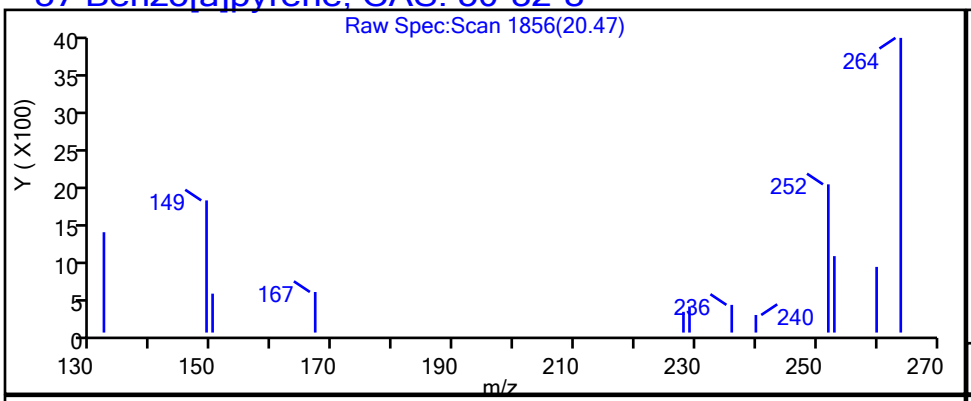


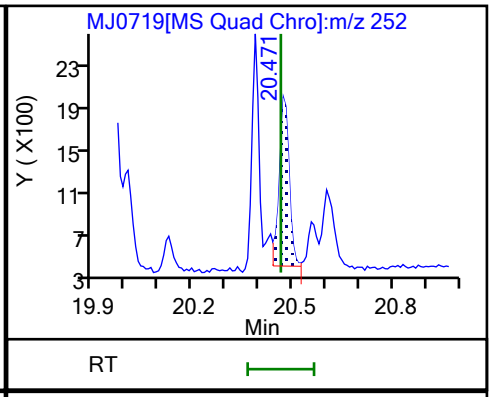
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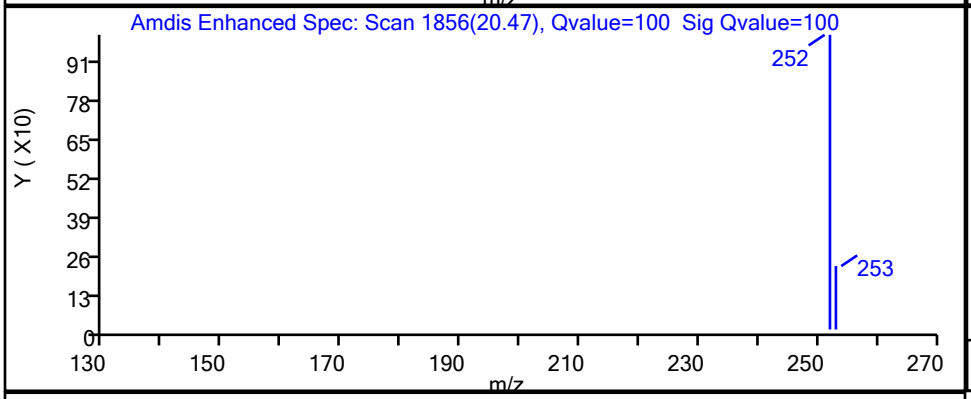
Eurofins Lancaster Laboratories Env, LLC

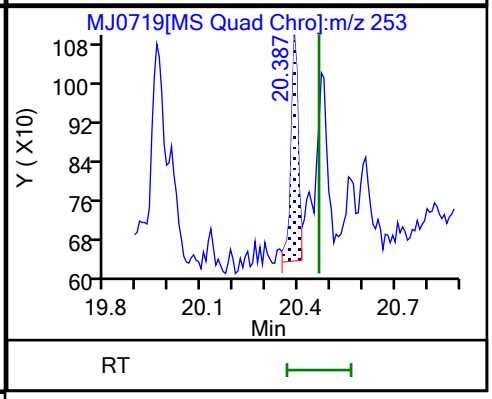
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Injection Date:	12-Oct-2021 12:30:32	Instrument ID:	HP21585		
Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

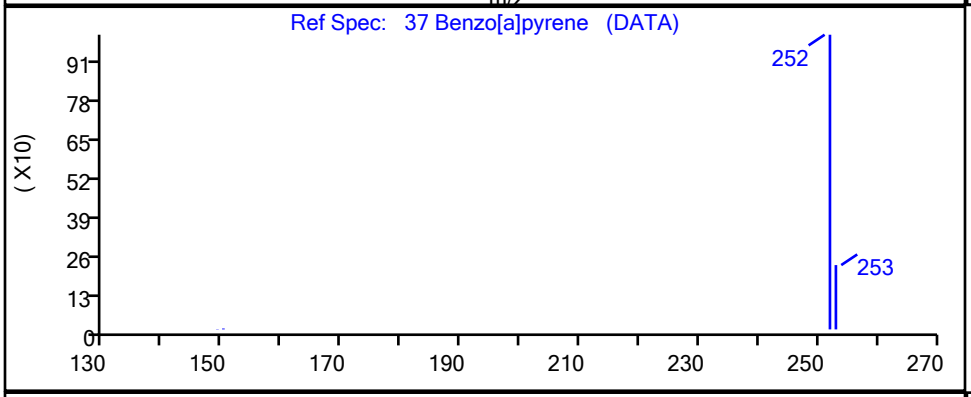
37 Benzo[a]pyrene, CAS: 50-32-8

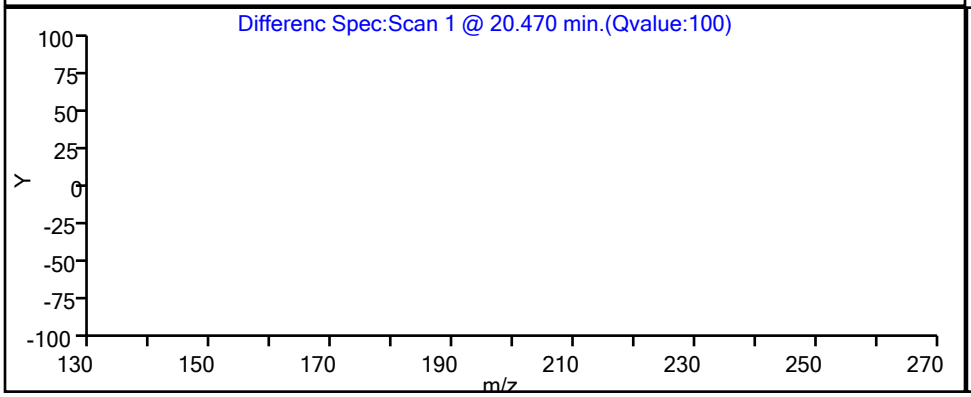


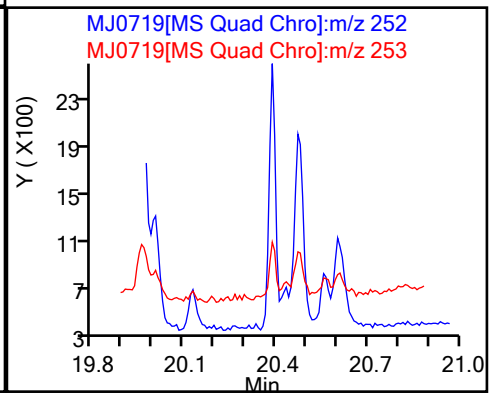










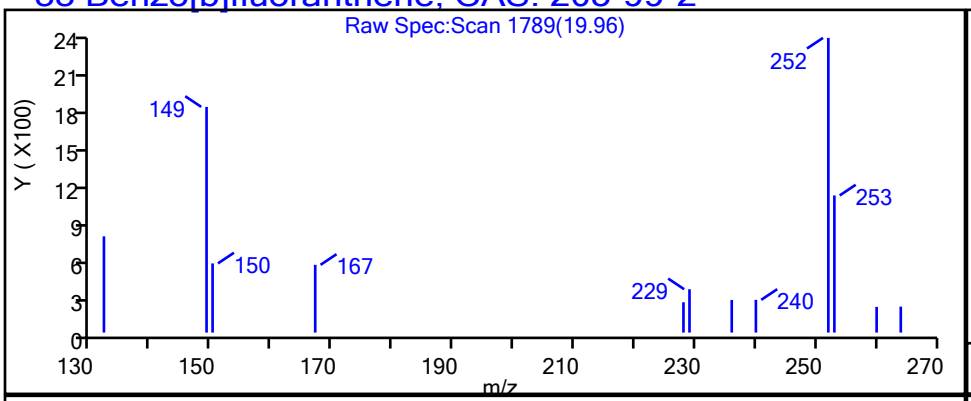


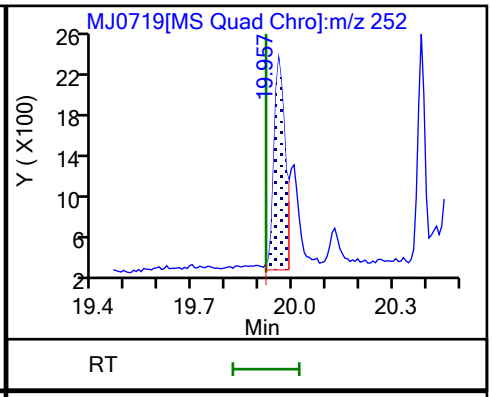
Report Date: 13-Oct-2021 08:30:52 Chrom Revision: 2.3 22-Sep-2021 15:38:46

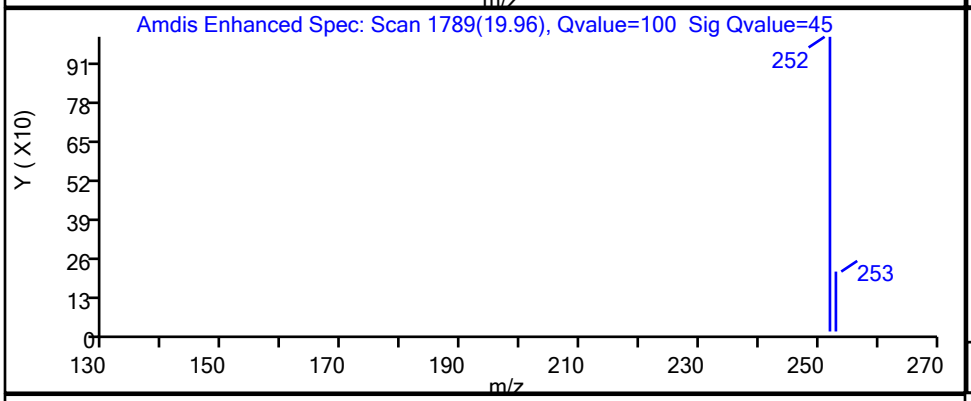
Eurofins Lancaster Laboratories Env, LLC

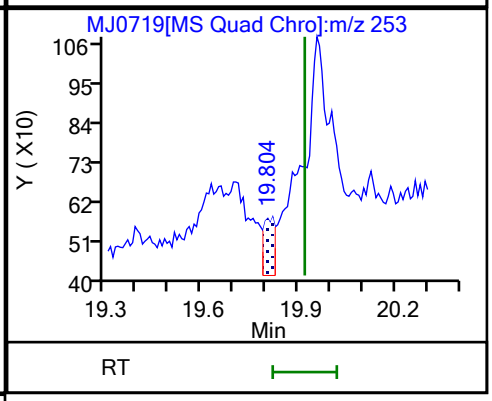
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Injection Date:	12-Oct-2021 12:30:32	Instrument ID:	HP21585
Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2
Client ID:	MW-10S-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

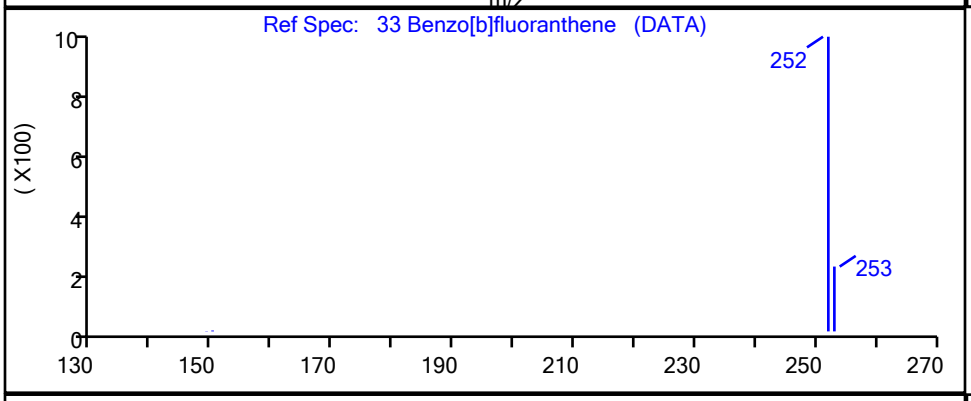
33 Benzo[b]fluoranthene, CAS: 205-99-2

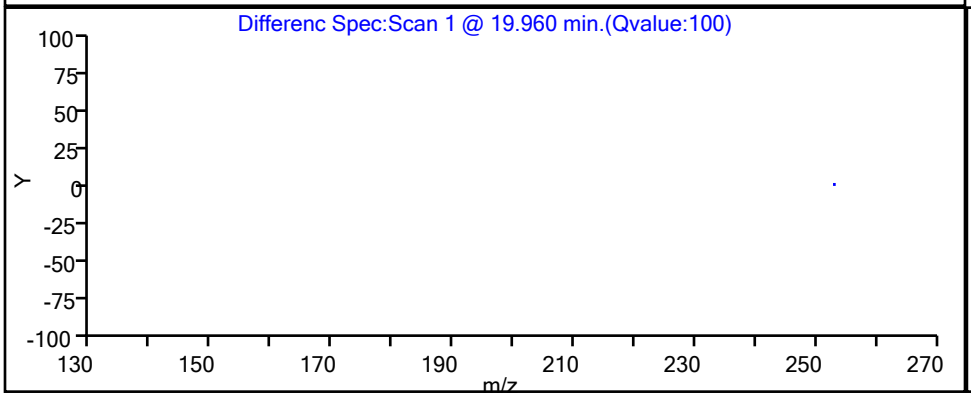


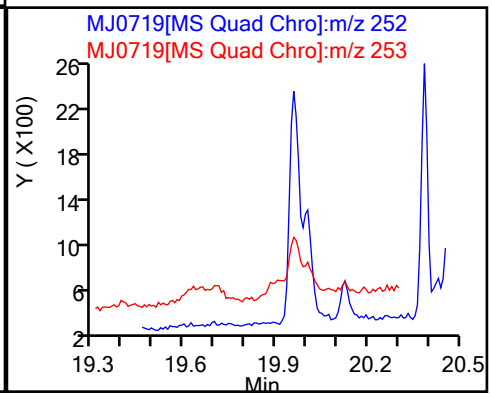










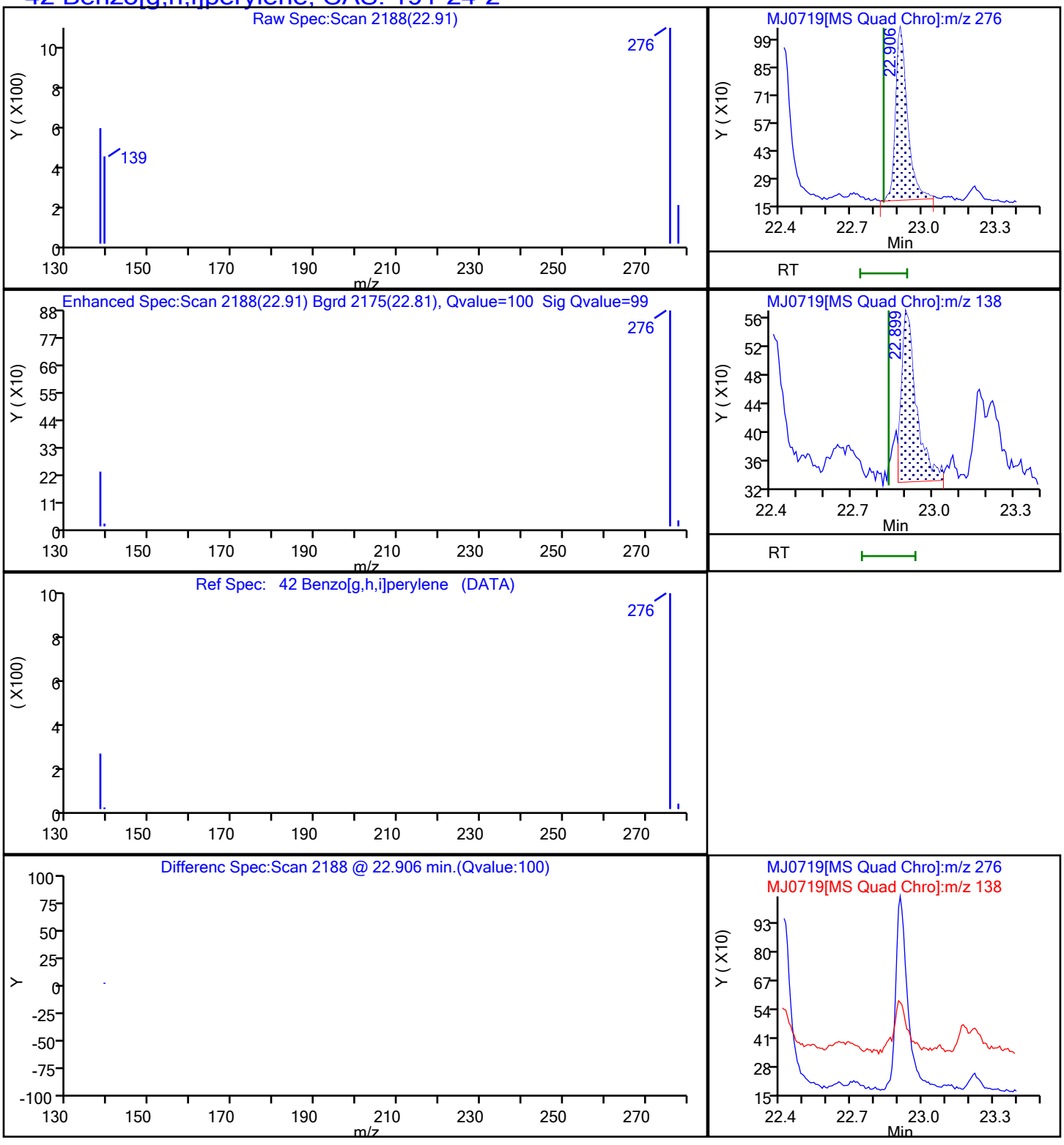


Report Date: 13-Oct-2021 08:30:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
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

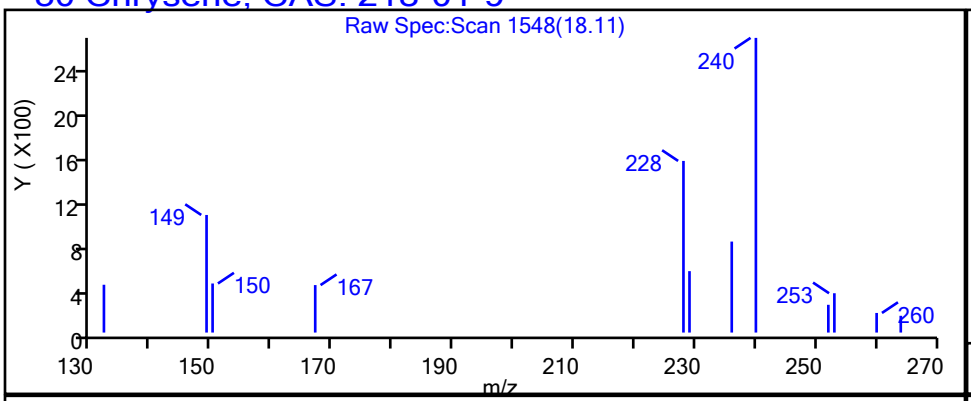


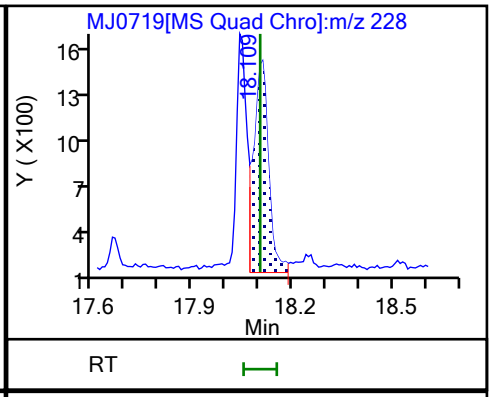
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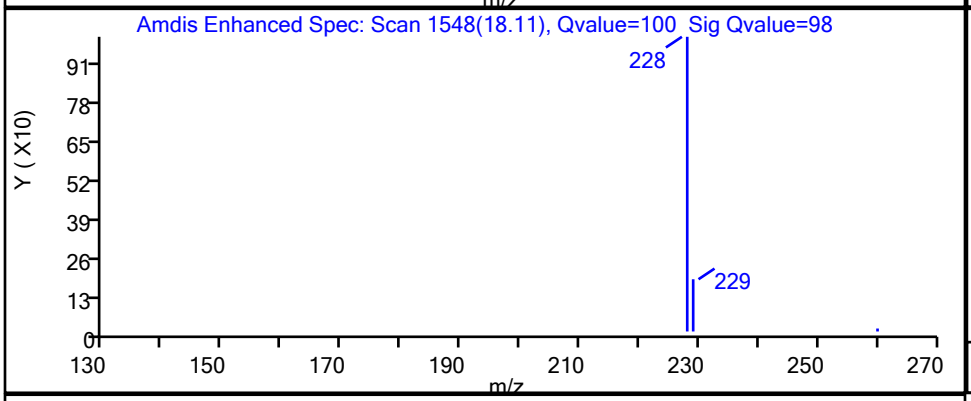
Eurofins Lancaster Laboratories Env, LLC

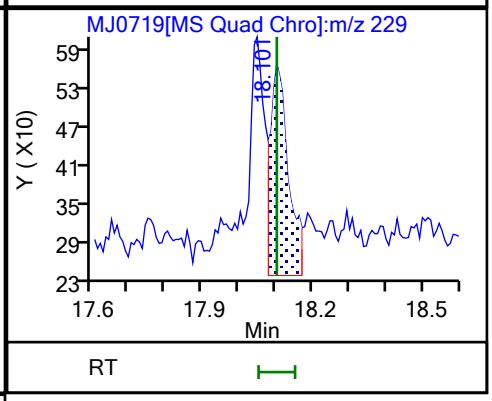
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

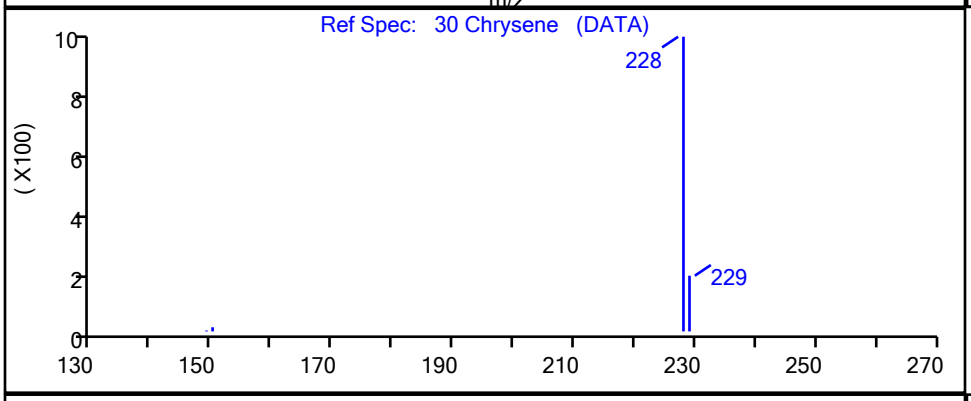
30 Chrysene, CAS: 218-01-9

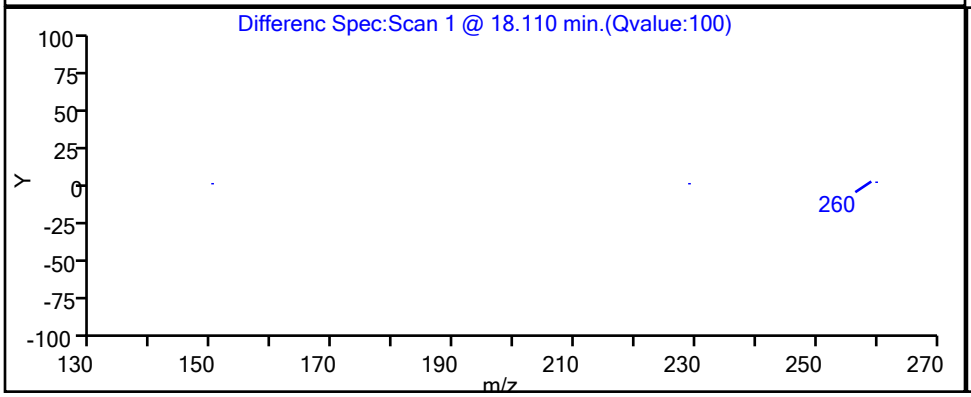


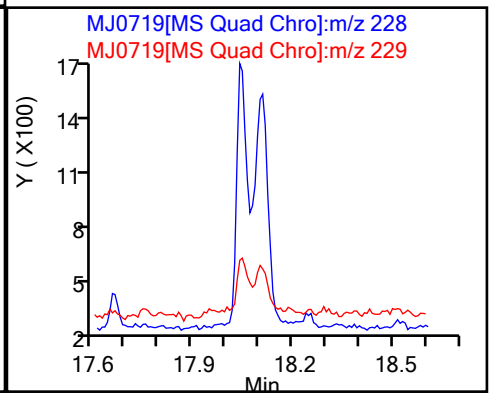












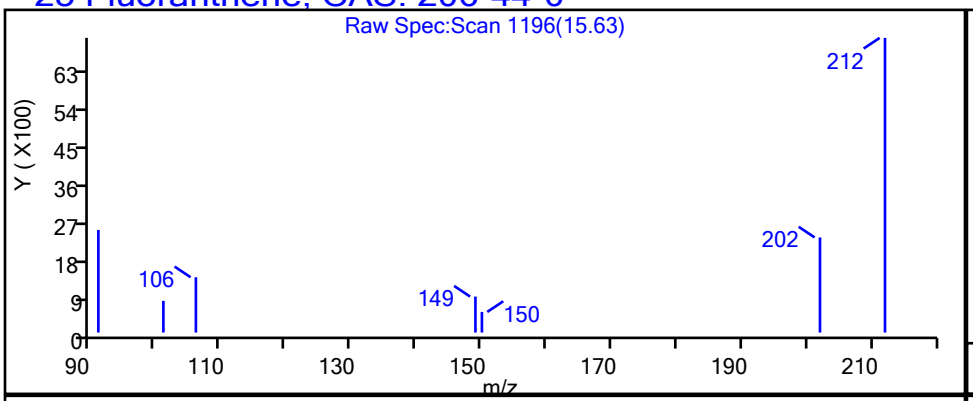
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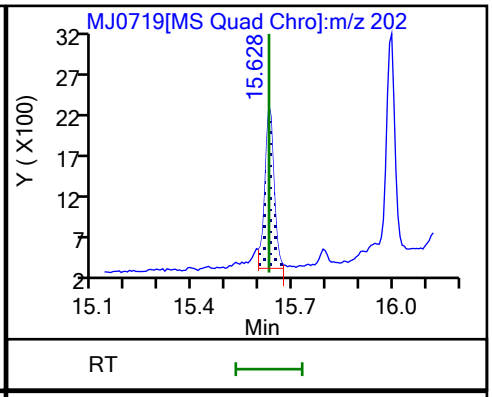
Eurofins Lancaster Laboratories Env, LLC

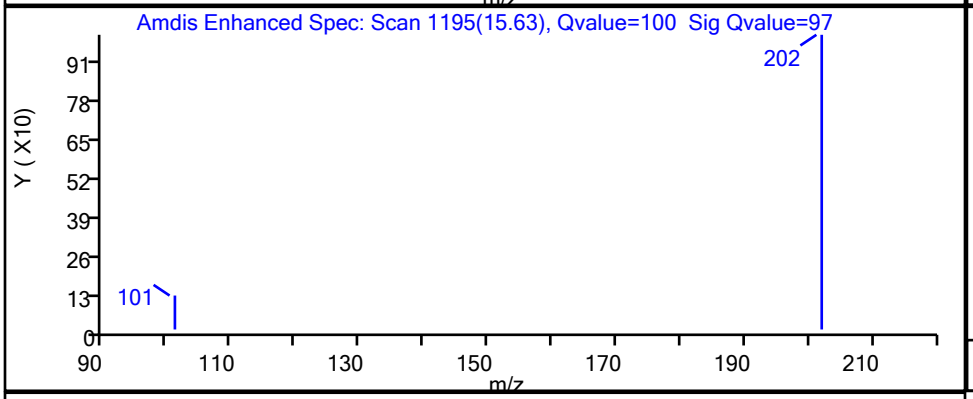
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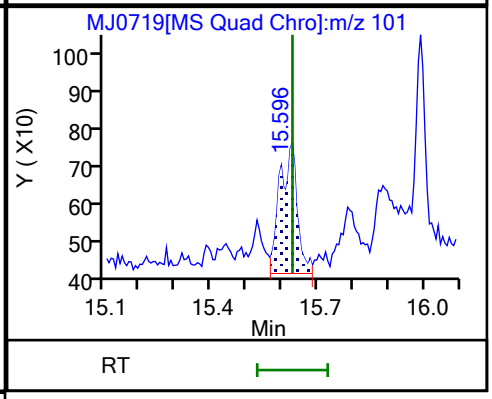
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Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2		
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Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

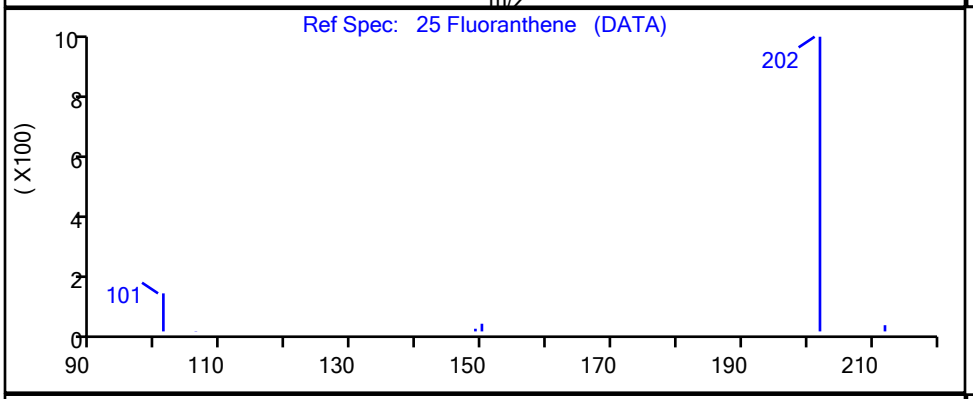
25 Fluoranthene, CAS: 206-44-0

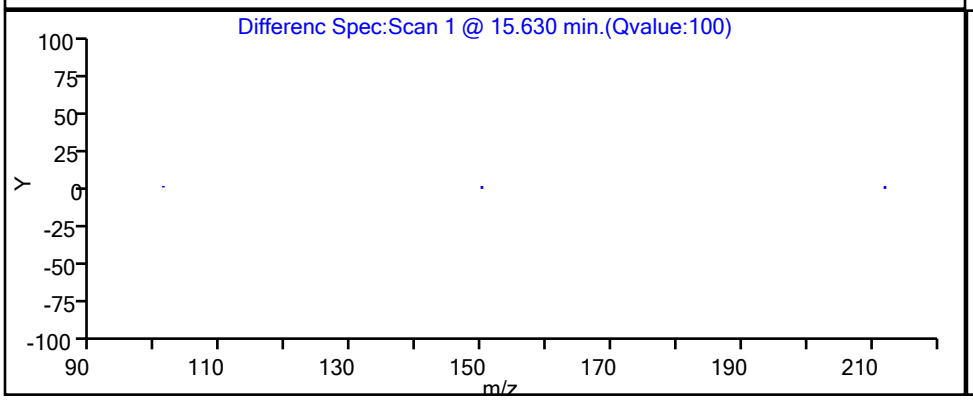


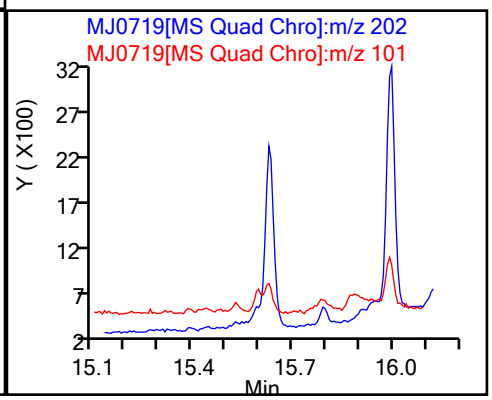










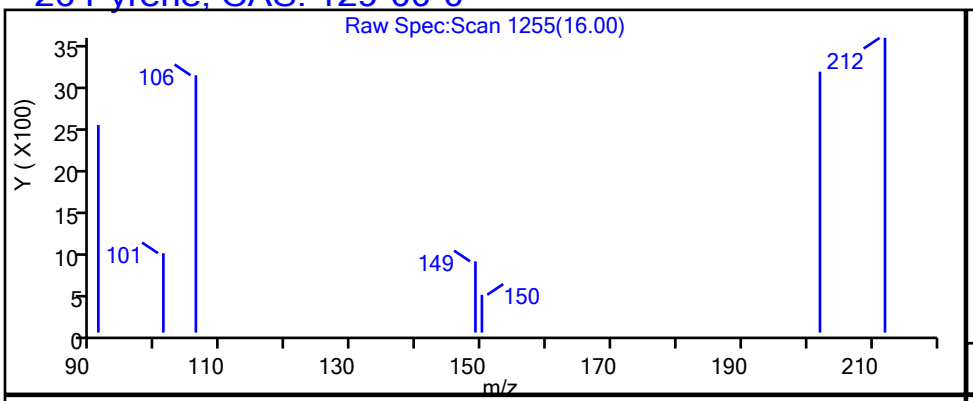


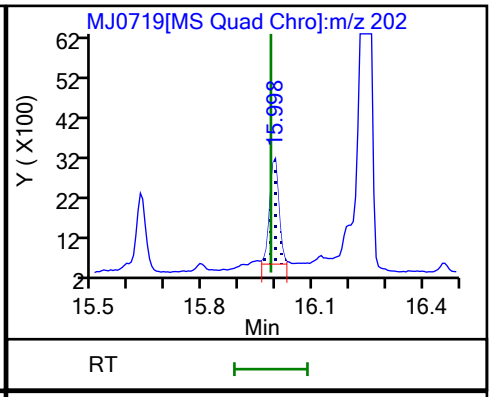
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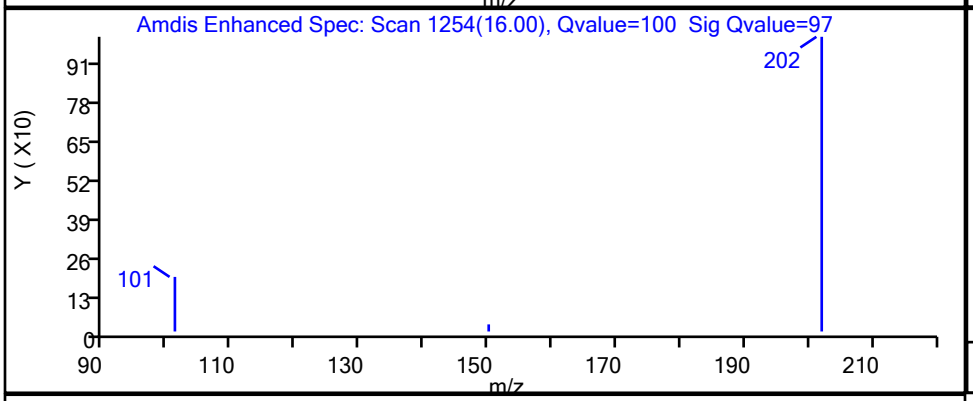
Eurofins Lancaster Laboratories Env, LLC

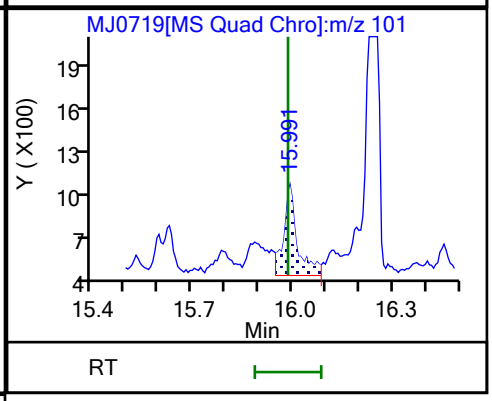
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Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2
Client ID:	MW-10S-20210928		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

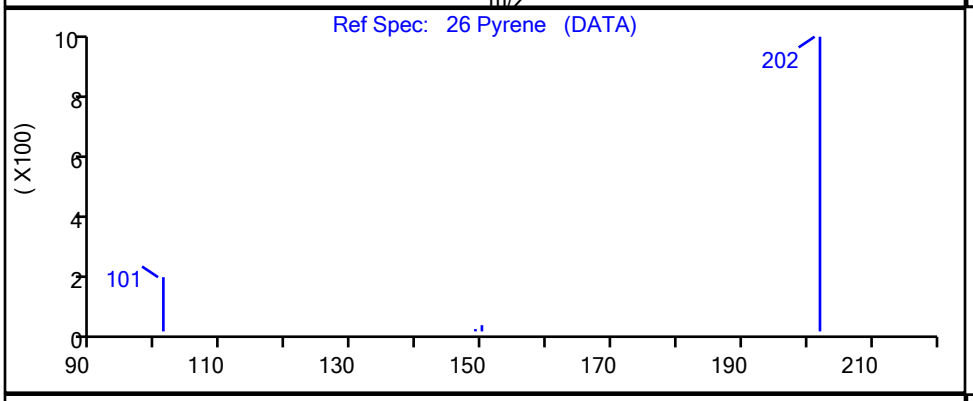
26 Pyrene, CAS: 129-00-0

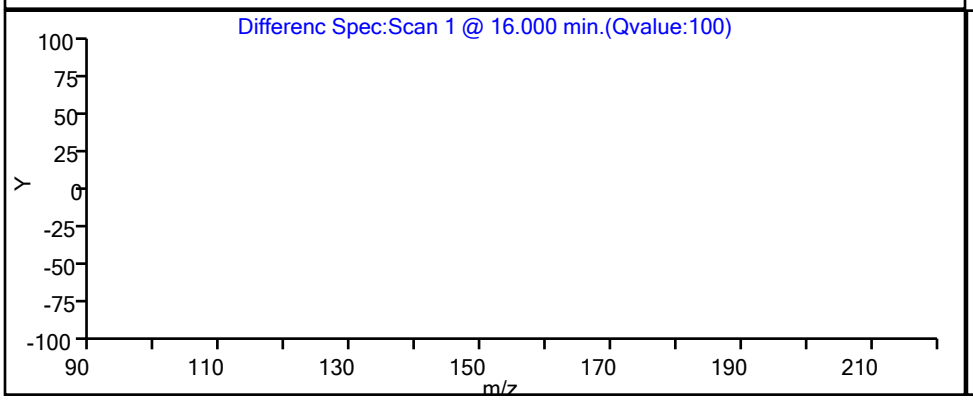


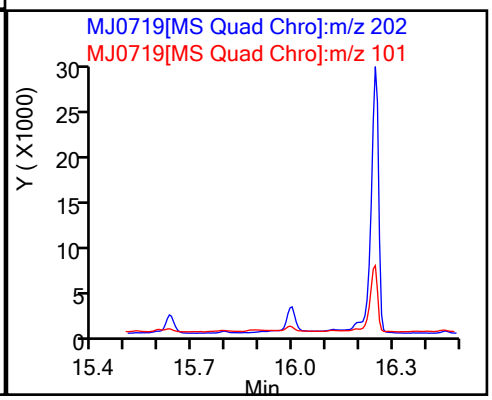












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

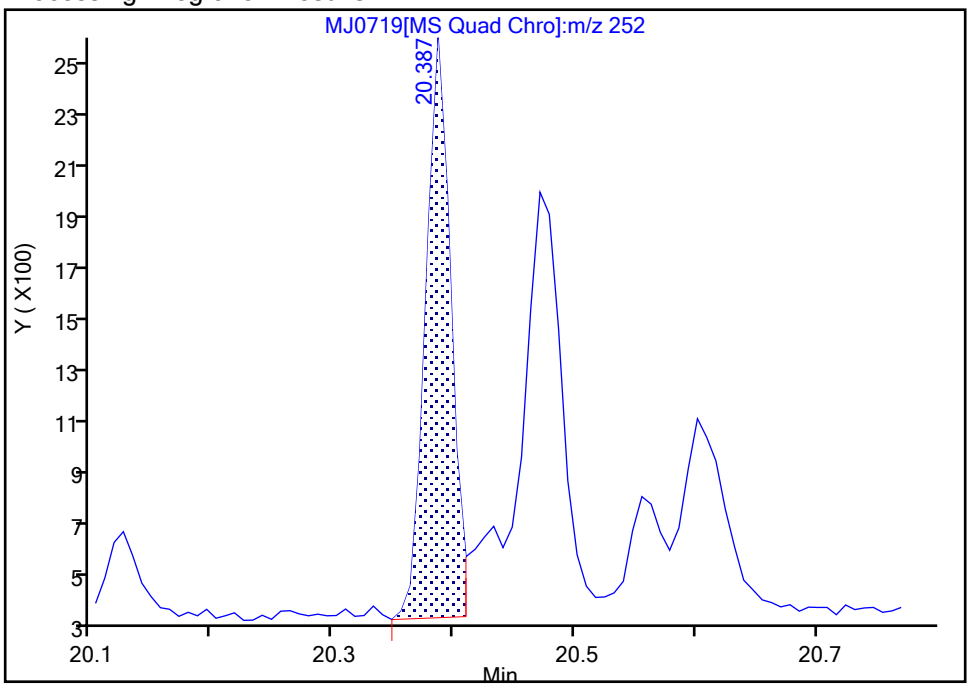
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

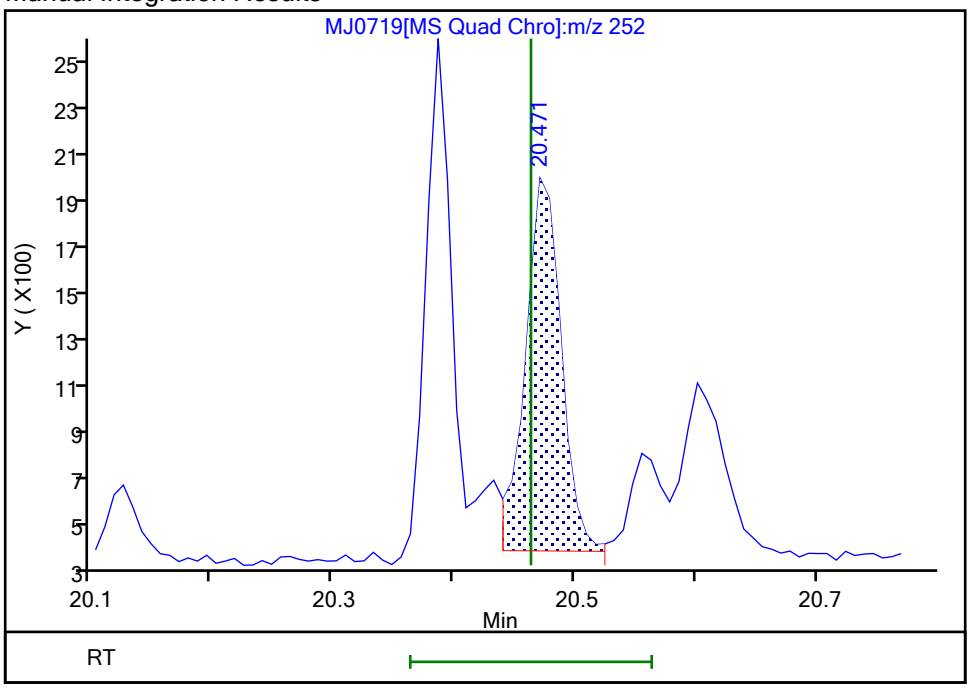
Processing Integration Results

RT: 20.39
Area: 3085
Amount: 0.002741
Amount Units: ug/ml



Manual Integration Results

RT: 20.47
Area: 3125
Amount: 0.002777
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:20:30

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

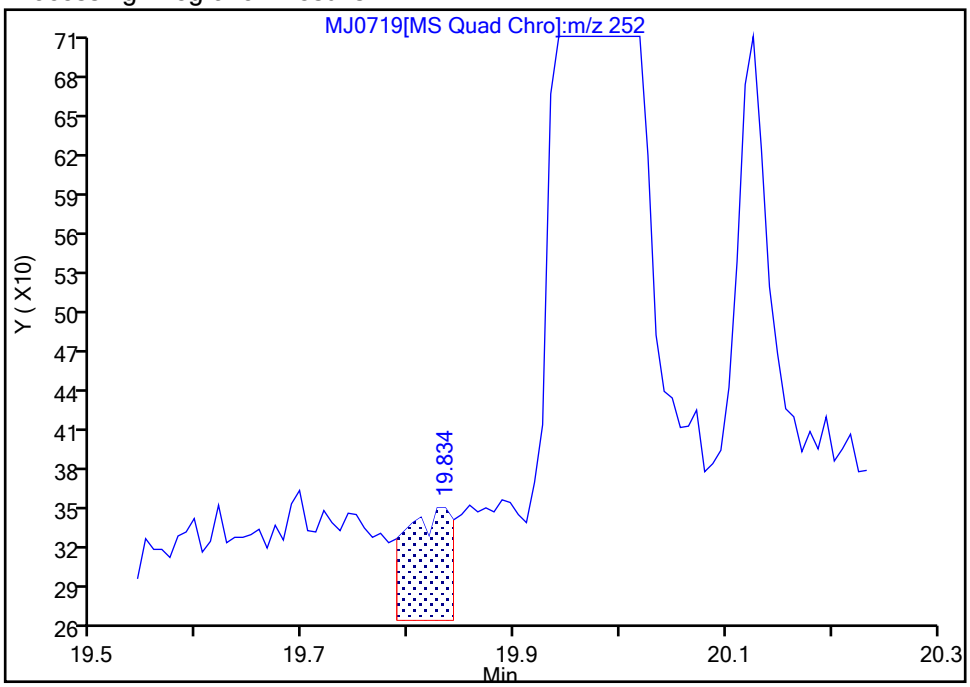
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Injection Date:	12-Oct-2021 12:30:32	Instrument ID:	HP21585		
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

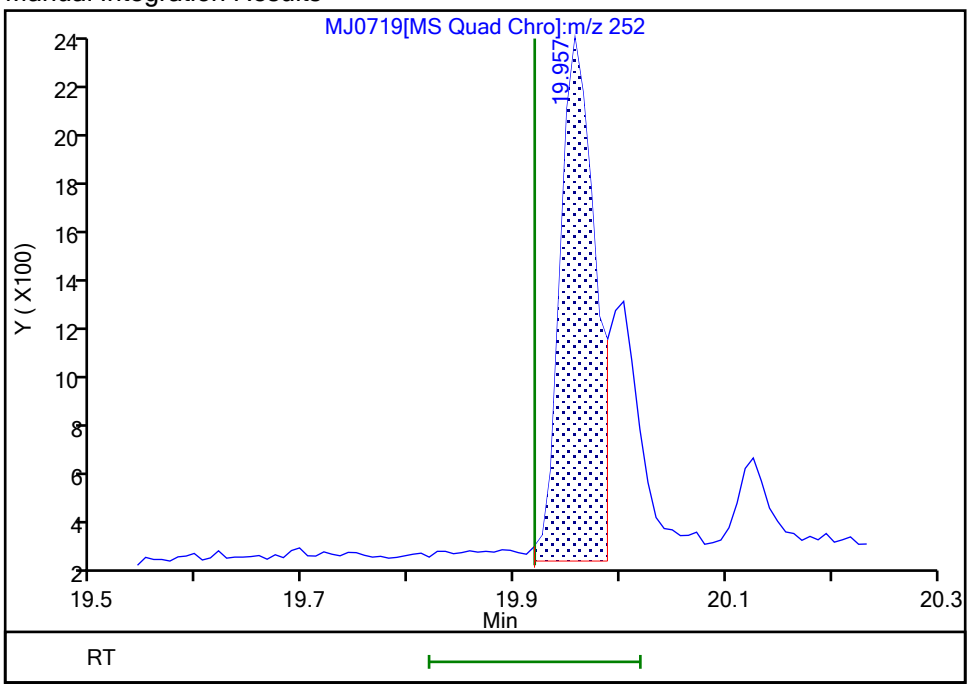
Processing Integration Results

RT: 19.83
Area: 236
Amount: 0.000195
Amount Units: ug/ml



Manual Integration Results

RT: 19.96
Area: 4494
Amount: 0.003721
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:20:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

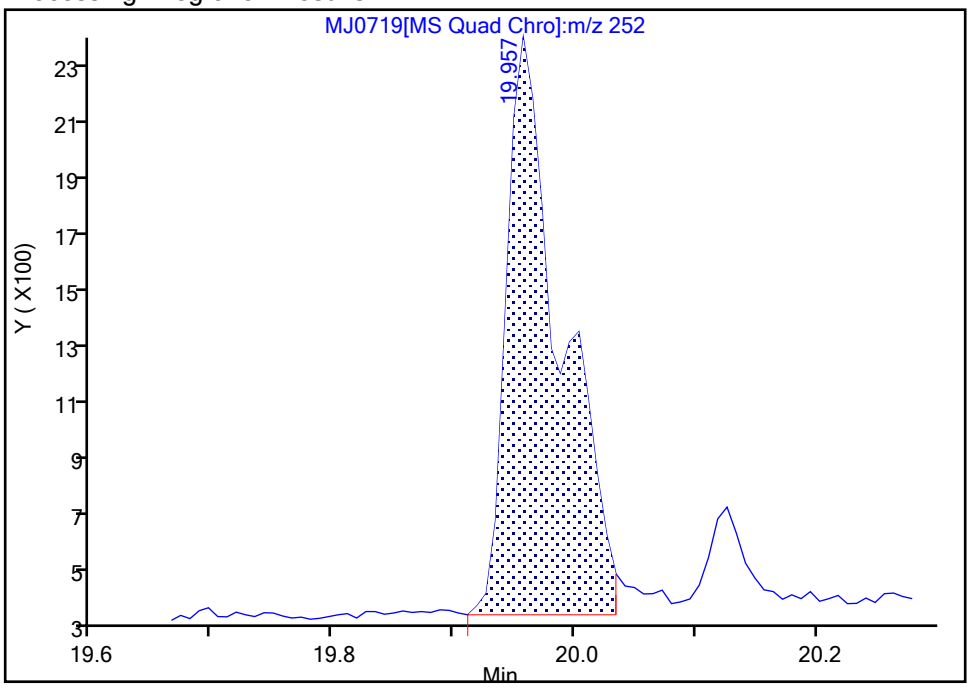
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Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

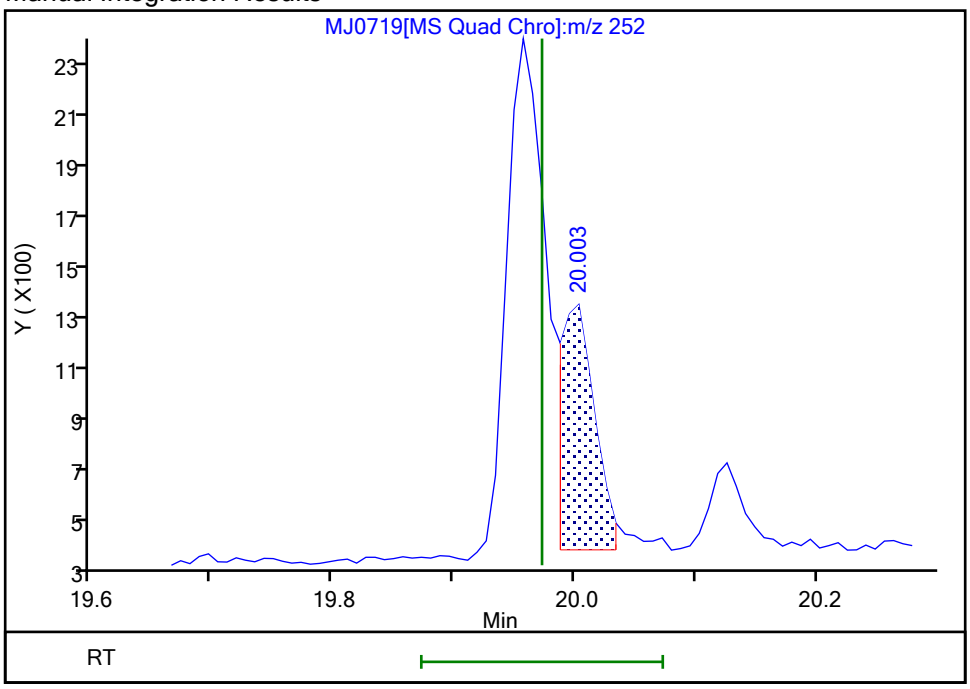
Processing Integration Results

RT: 19.96
Area: 6171
Amount: 0.004790
Amount Units: ug/ml



Manual Integration Results

RT: 20.00
Area: 1670
Amount: 0.001296
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:20:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

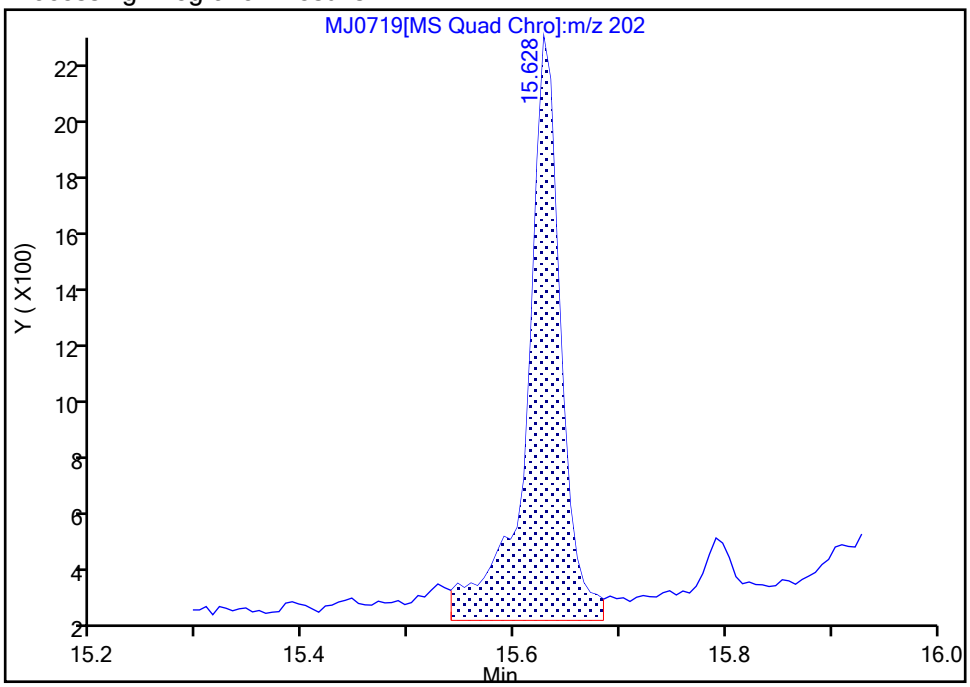
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Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

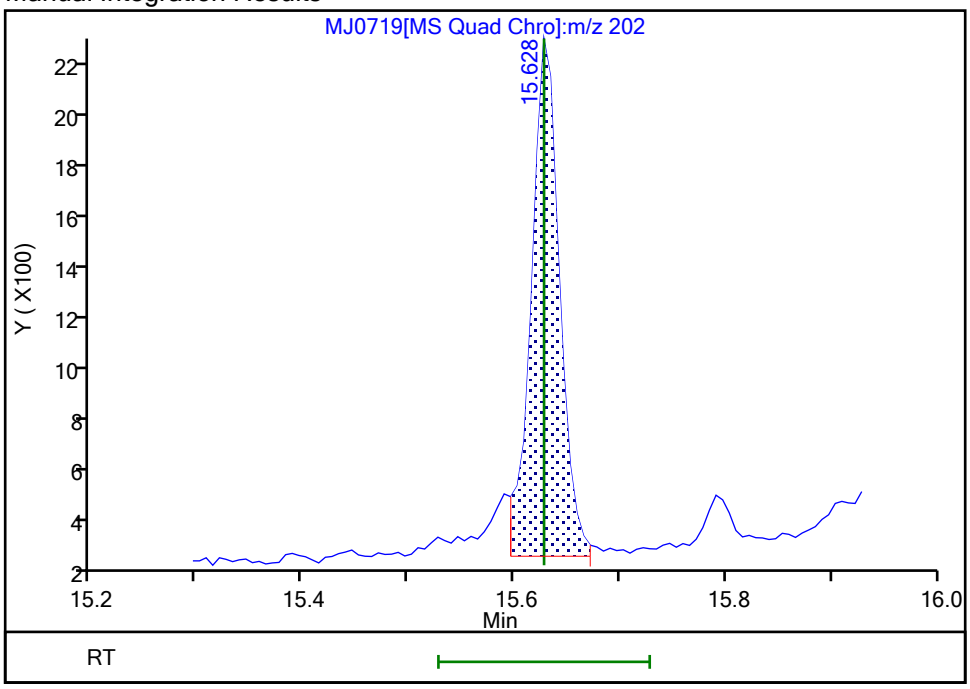
Processing Integration Results

RT: 15.63
Area: 4609
Amount: 0.003933
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 3700
Amount: 0.003157
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:19:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

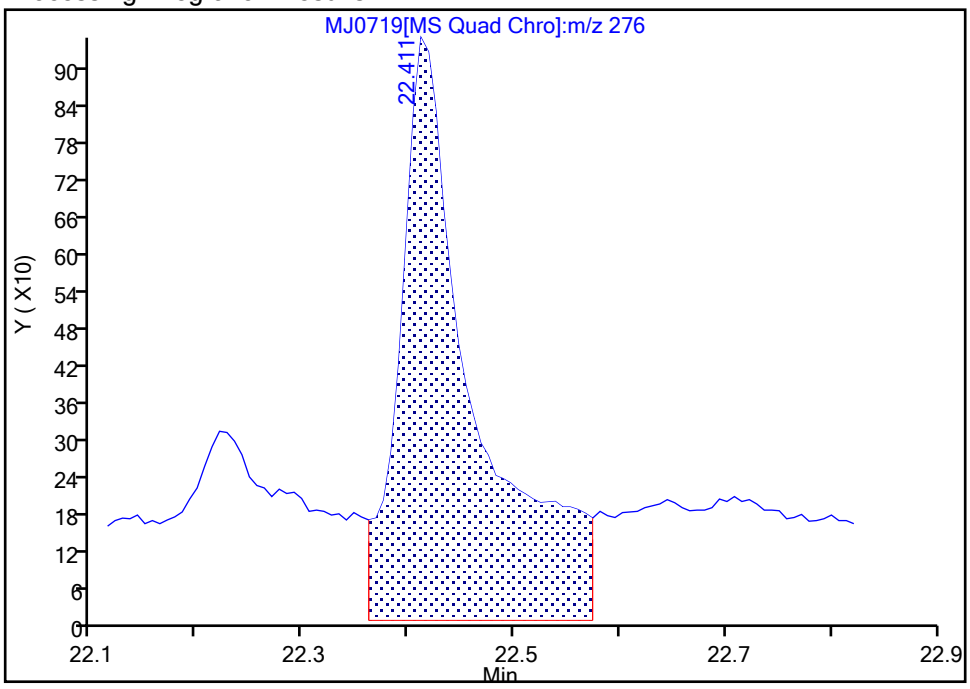
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Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

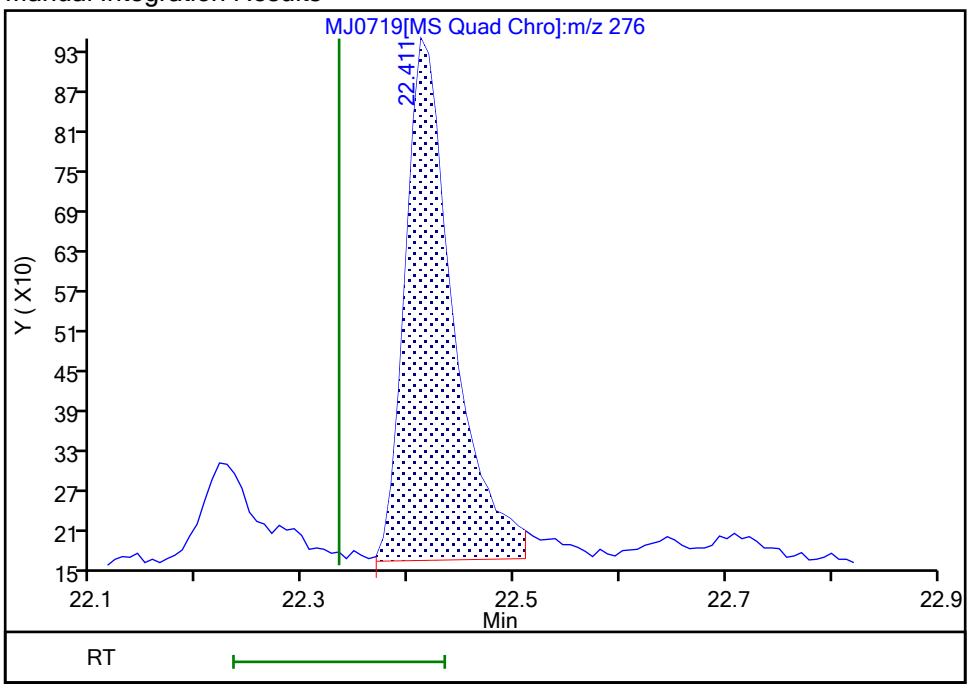
Processing Integration Results

RT: 22.41
Area: 4619
Amount: 0.005112
Amount Units: ug/ml



Manual Integration Results

RT: 22.41
Area: 2472
Amount: 0.002736
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:20:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

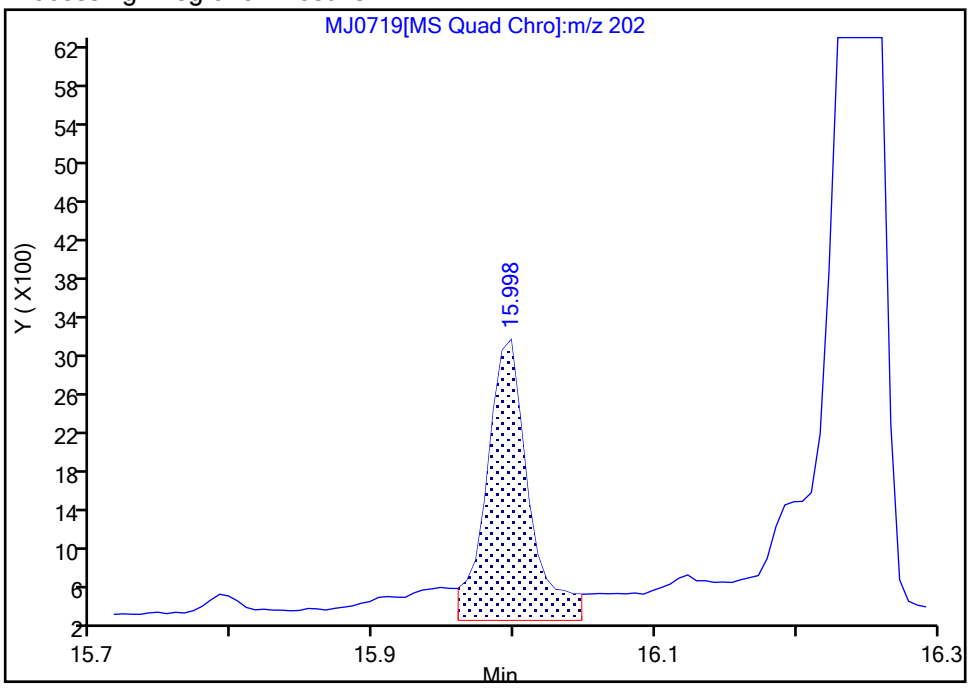
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0719.D				
Injection Date:	12-Oct-2021 12:30:32	Instrument ID:	HP21585		
Lims ID:	410-57303-B-2-A RE	Lab Sample ID:	410-57303-2		
Client ID:	MW-10S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 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

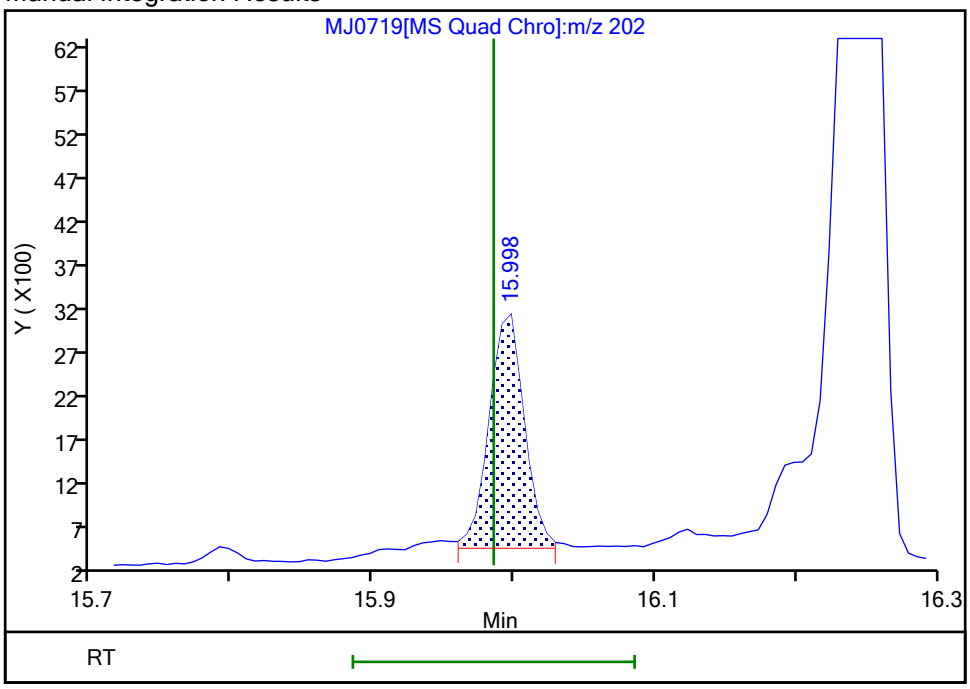
Processing Integration Results

RT: 16.00
Area: 5989
Amount: 0.004689
Amount Units: ug/ml



Manual Integration Results

RT: 16.00
Area: 4599
Amount: 0.003600
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:20:03

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 Lab Sample ID: 410-57303-3

Matrix: Ground Water Lab File ID: MJ0512.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 14:43

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 243.2(mL) Date Analyzed: 10/07/2021 15:09

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.: 179971 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	0.052	J B	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)	67		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	70		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\HP21585\20211007-40957.b\MJ0512.D
Lims ID: 410-57303-A-3-C
Client ID: MW-10D-20210928
Sample Type: Client
Inject. Date: 07-Oct-2021 15:09:34 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-3-C
Misc. Info.: 410-0040957-013
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: saadehw Date: 07-Oct-2021 15:55:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	93	60107	0.2500	
* 5 Naphthalene-d8	136	9.257	9.237	0.020	92	203979	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	93	11881	0.0125	M
$ 9 1-Methylnaphthalene-d10	152	10.474	10.498	-0.001	100	69387	0.1757	
* 13 Acenaphthene-d10	164	11.990	11.991	-0.001	89	103351	0.2500	
* 20 Phenanthrene-d10	188	13.897	13.889	0.008	95	185268	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.609	15.612	0.006	100	168934	0.2302	
* 29 Chrysene-d12	240	18.070	18.063	0.007	60	182377	0.2500	
33 Benzo[b]fluoranthene	252	19.980	19.980	0.046	99	1546	0.001354	7M
34 Benzo[k]fluoranthene	252	20.026	20.019	0.046	93	759	0.000623	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.448	20.448	0.008	99	119201	0.1666	
* 38 Perylene-d12	264	20.578	20.571	0.007	100	201193	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

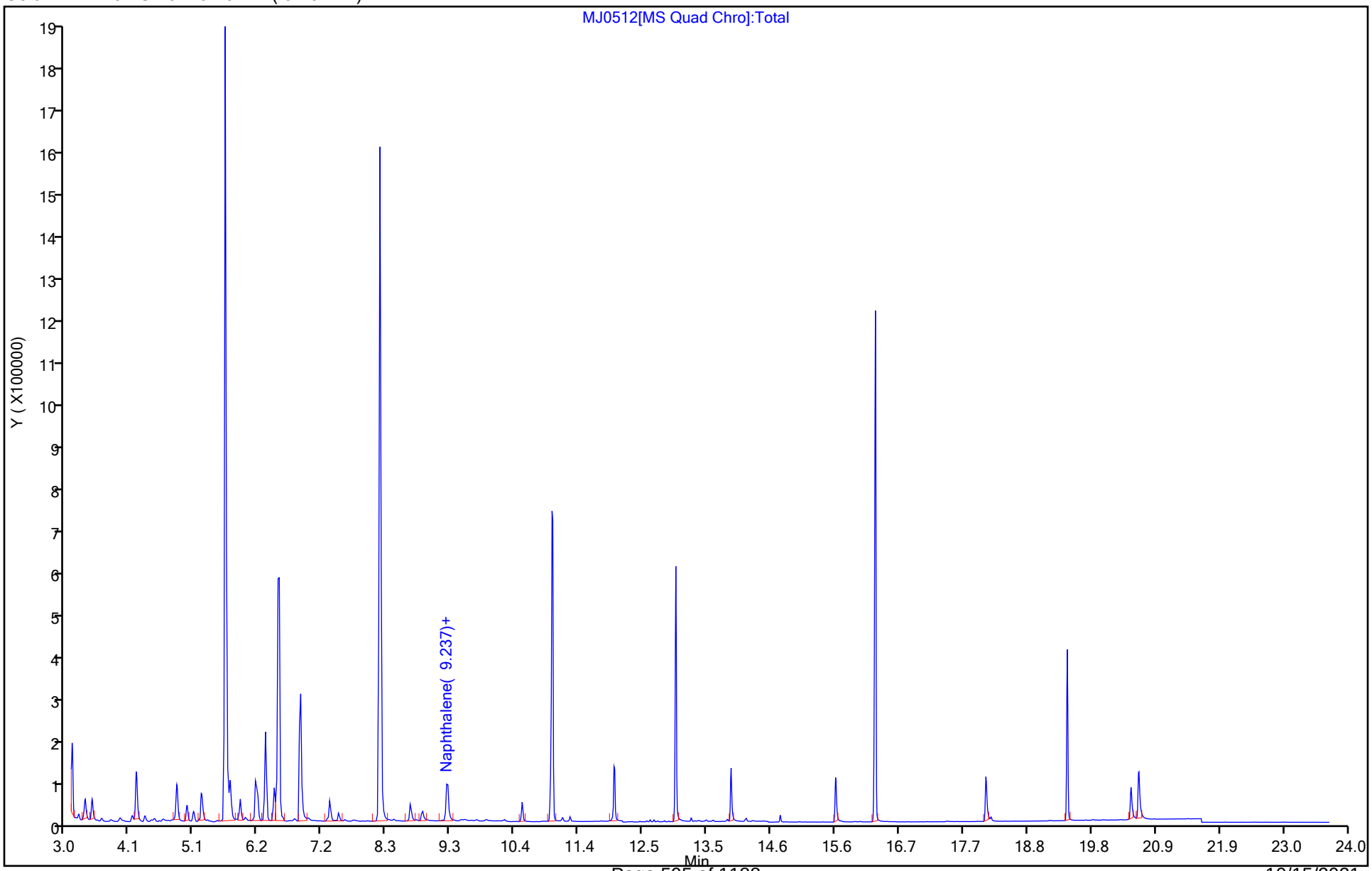
Report Date: 08-Oct-2021 04:11:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0512.D

Injection Date:	07-Oct-2021 15:09:34	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-3-C	Lab Sample ID:	410-57303-3	Worklist Smp#:	13
Client ID:	MW-10D-20210928				
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)

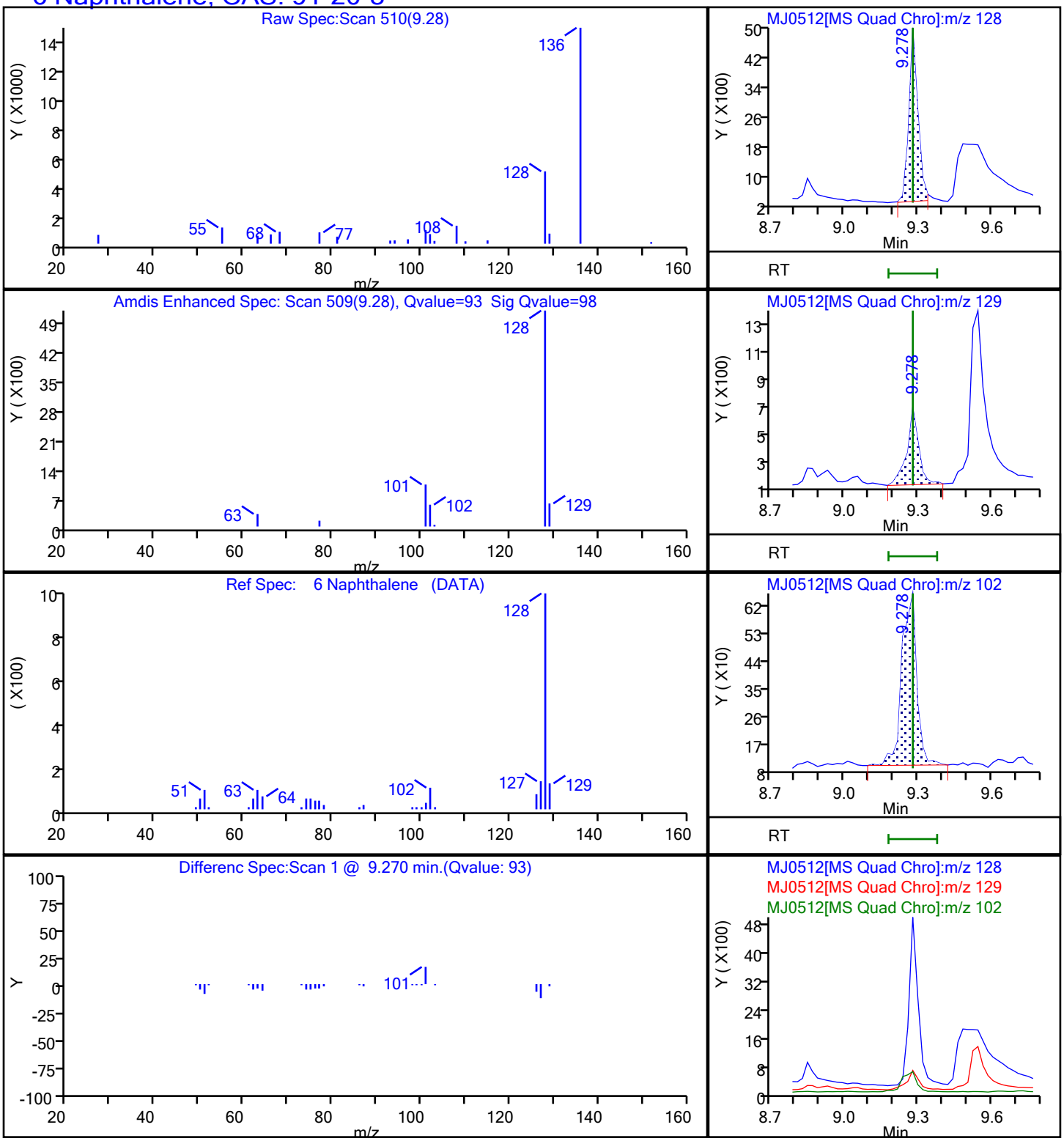


Report Date: 08-Oct-2021 04:11:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0512.D		
Injection Date:	07-Oct-2021 15:09:34	Instrument ID:	HP21585
Lims ID:	410-57303-A-3-C	Lab Sample ID:	410-57303-3
Client ID:	MW-10D-20210928		
Operator ID:	jmg00346	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

6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

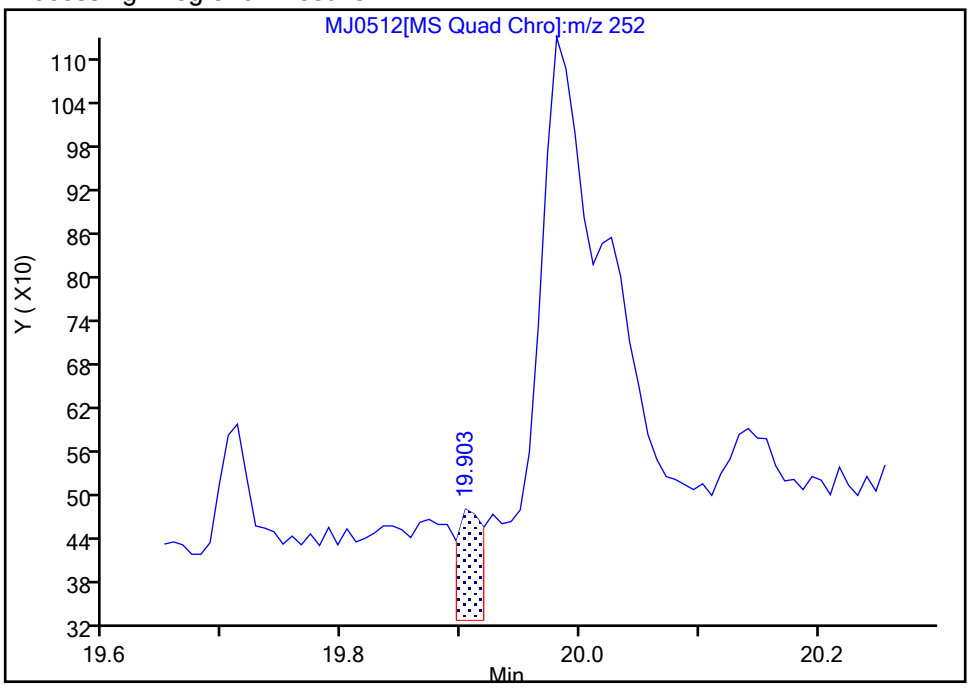
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0512.D				
Injection Date:	07-Oct-2021 15:09:34	Instrument ID:	HP21585		
Lims ID:	410-57303-A-3-C	Lab Sample ID:	410-57303-3		
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	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

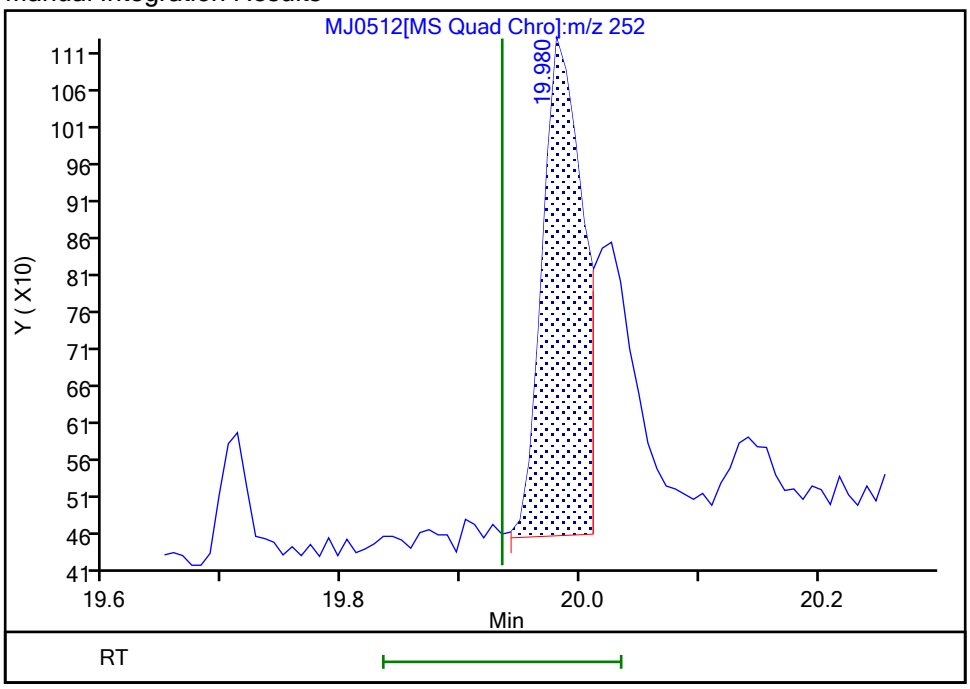
Processing Integration Results

RT: 19.90
Area: 192
Amount: 0.000168
Amount Units: ug/ml



Manual Integration Results

RT: 19.98
Area: 1546
Amount: 0.001354
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:52:57
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

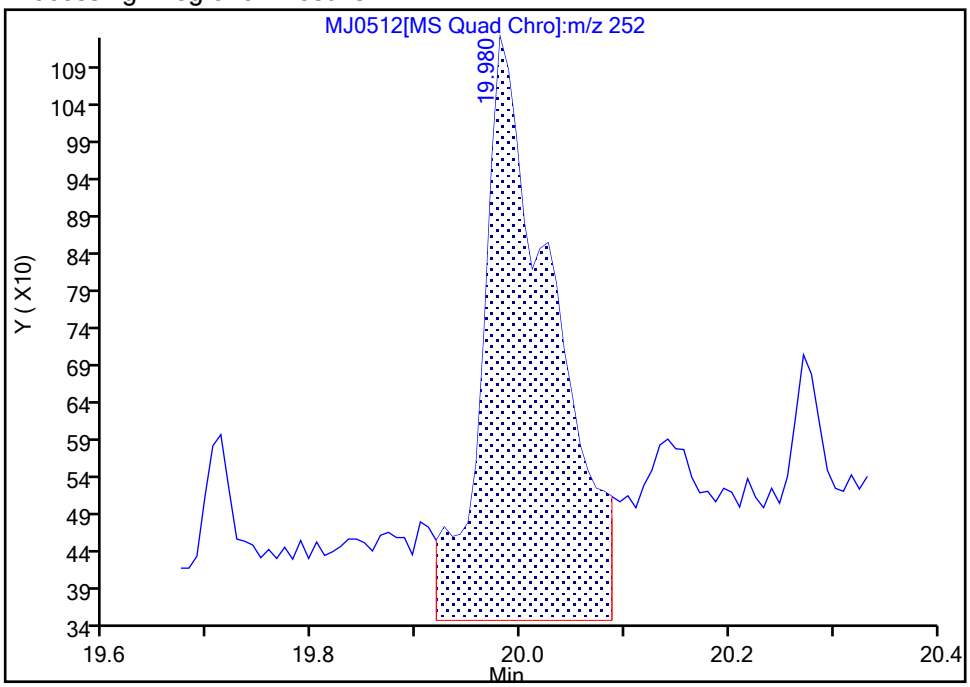
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0512.D				
Injection Date:	07-Oct-2021 15:09:34	Instrument ID:	HP21585		
Lims ID:	410-57303-A-3-C	Lab Sample ID:	410-57303-3		
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	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

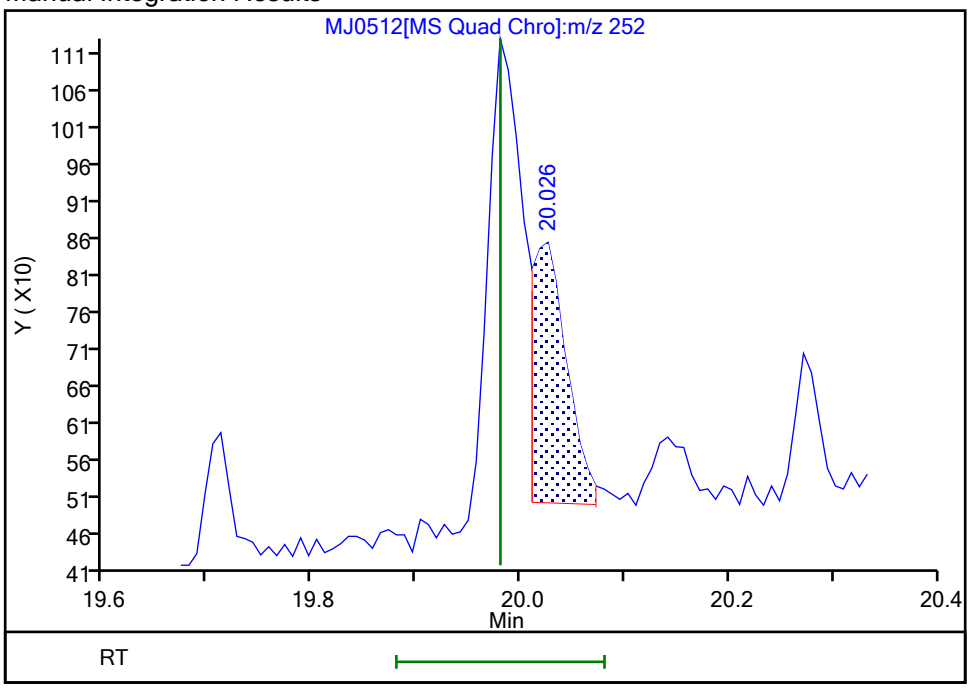
Processing Integration Results

RT: 19.98
Area: 3643
Amount: 0.002991
Amount Units: ug/ml



Manual Integration Results

RT: 20.03
Area: 759
Amount: 0.000623
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:53:03
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

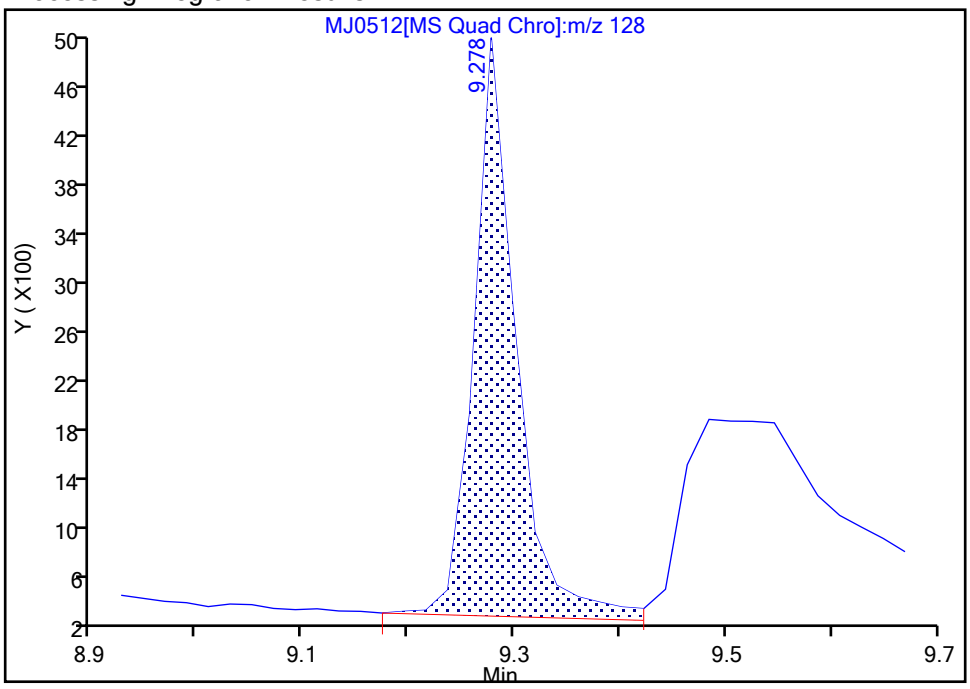
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0512.D				
Injection Date:	07-Oct-2021 15:09:34	Instrument ID:	HP21585		
Lims ID:	410-57303-A-3-C	Lab Sample ID:	410-57303-3		
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	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		

6 Naphthalene, CAS: 91-20-3

Signal: 1

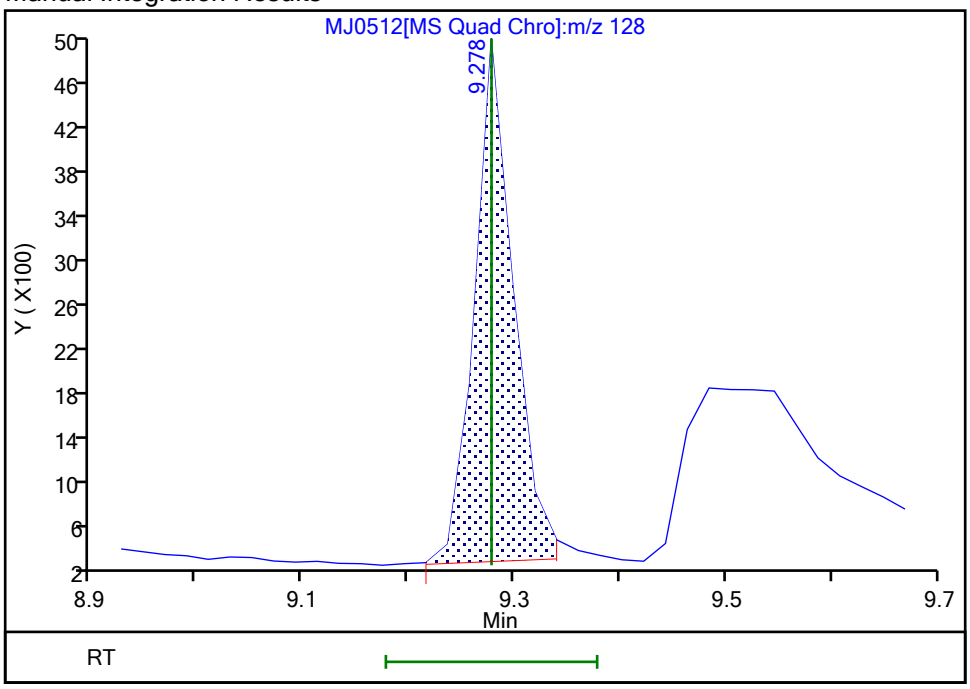
Processing Integration Results

RT: 9.28
Area: 13094
Amount: 0.013818
Amount Units: ug/ml



Manual Integration Results

RT: 9.28
Area: 11881
Amount: 0.012538
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 03:52:30
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 RE Lab Sample ID: 410-57303-3 RE

Matrix: Ground Water Lab File ID: MJ0715.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 14:43

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 246.4(mL) Date Analyzed: 10/12/2021 10:31

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.: 181586 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*	*0.020*
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*	*0.030*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.071*	*0.030*
129-00-0	*Pyrene*	*0.011*	*J H*	*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)	80		36-111
93951-69-0	Fluoranthene-d10 (Surr)	97		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0715.D
Lims ID: 410-57303-B-3-C RE
Client ID: MW-10D-20210928
Sample Type: Client
Inject. Date: 12-Oct-2021 10:31:32 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-3-C
Misc. Info.: 410-0041301-006
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:16:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	99	62684	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	93	226410	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.475	10.498	0.000	100	87901	0.2006	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	93	113356	0.2500	
* 20 Phenanthrene-d10	188	13.889	13.881	0.008	95	190230	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.603	15.605	0.006	100	183160	0.2431	
26 Pyrene	202	16.010	15.979	0.025	100	3112	0.002691	
* 29 Chrysene-d12	240	18.063	18.055	0.008	55	174135	0.2500	
34 Benzo[k]fluoranthene	252	19.980	20.003	0.007	99	2003	0.001760	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.433	0.008	99	114961	0.1720	
* 38 Perylene-d12	264	20.563	20.556	0.007	99	187939	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

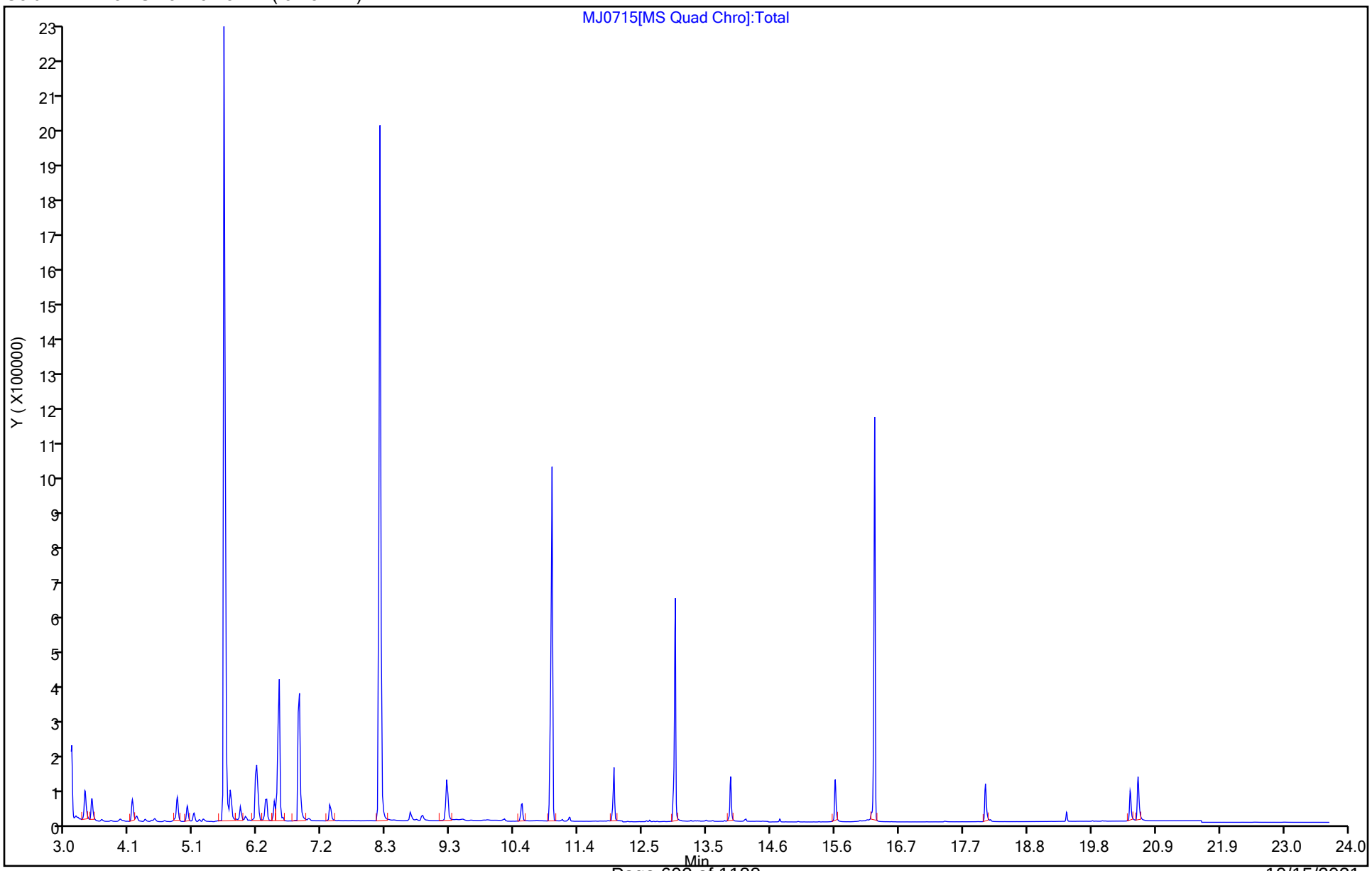
Report Date: 13-Oct-2021 08:30:49 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0715.D

Injection Date:	12-Oct-2021 10:31:32	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-3-C RE	Lab Sample ID:	410-57303-3	Worklist Smp#:	6
Client ID:	MW-10D-20210928				
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)



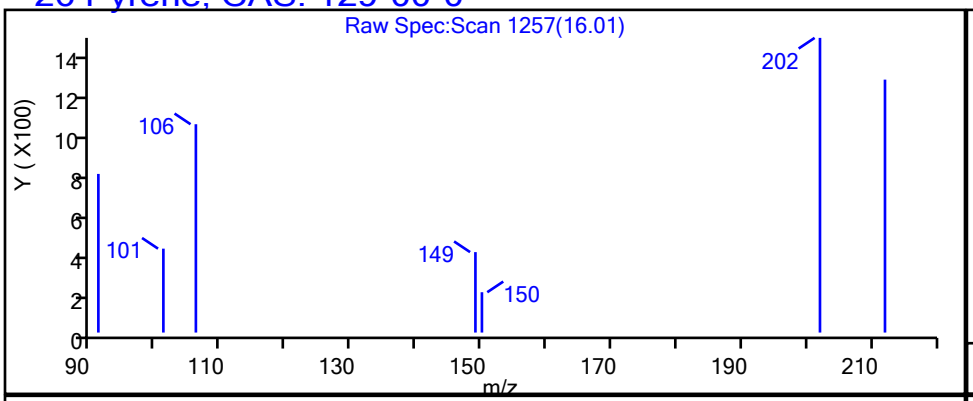
Report Date: 13-Oct-2021 08:30:49 Chrom Revision: 2.3 22-Sep-2021 15:38:46

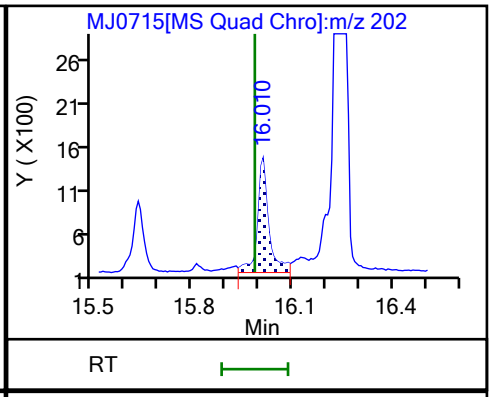
Eurofins Lancaster Laboratories Env, LLC

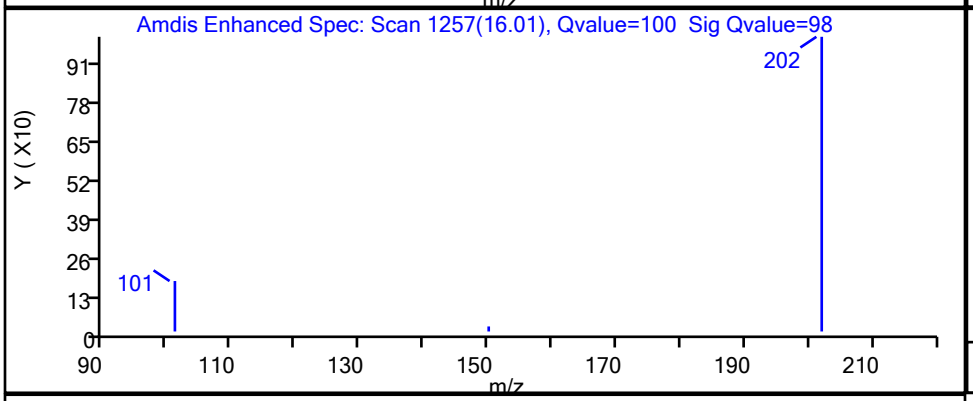
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0715.D

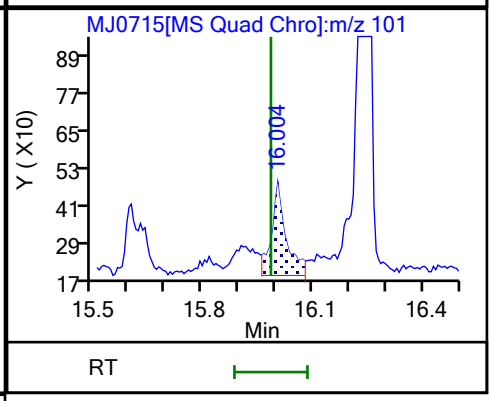
Injection Date:	12-Oct-2021 10:31:32	Instrument ID:	HP21585		
Lims ID:	410-57303-B-3-C RE	Lab Sample ID:	410-57303-3		
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

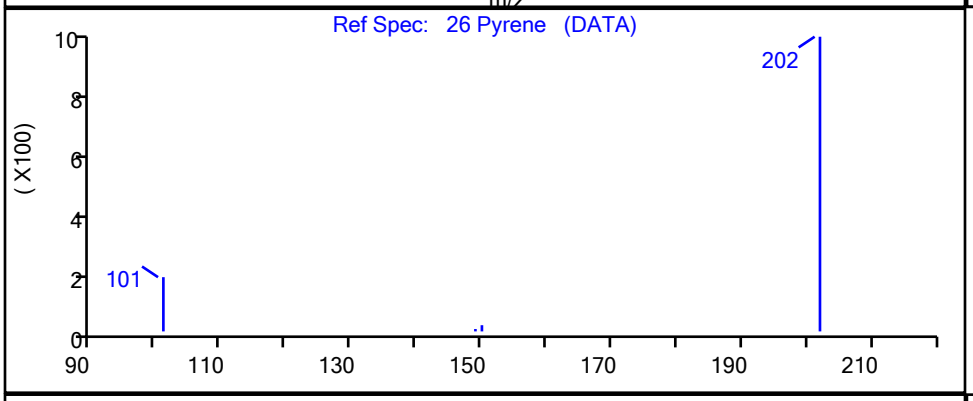
26 Pyrene, CAS: 129-00-0

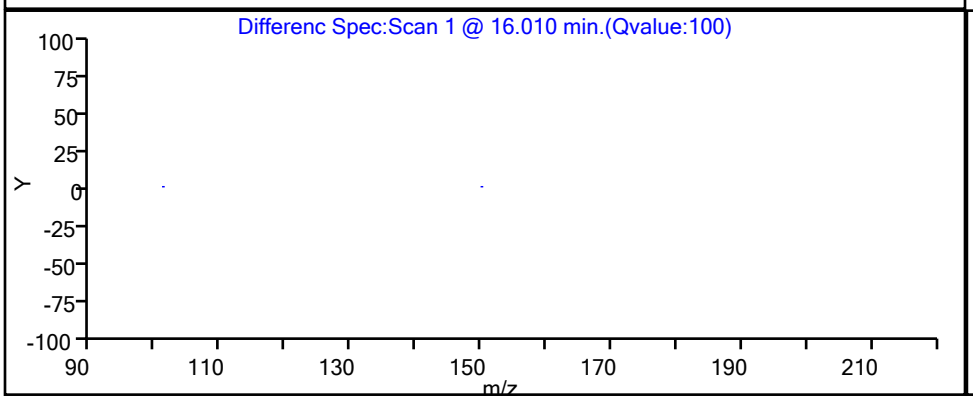


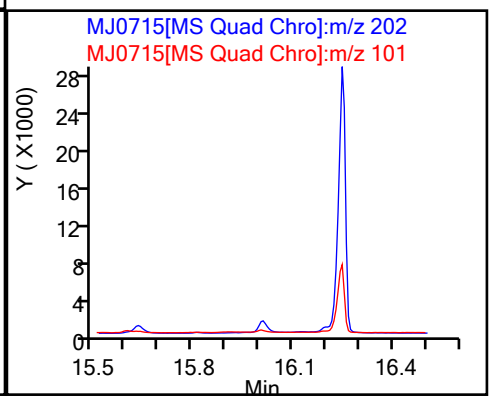












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

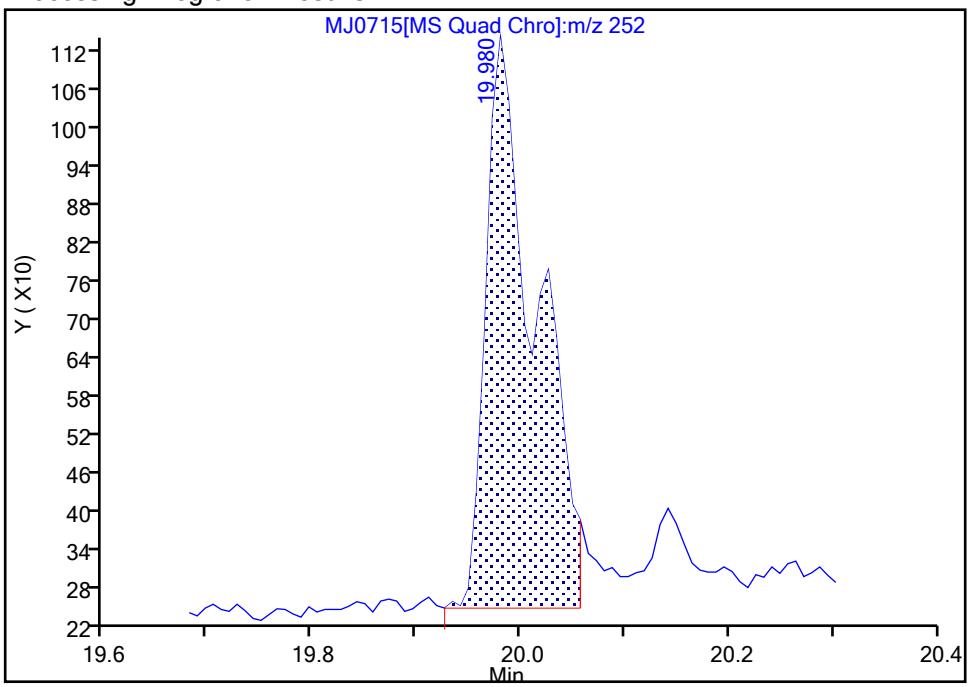
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0715.D				
Injection Date:	12-Oct-2021 10:31:32	Instrument ID:	HP21585		
Lims ID:	410-57303-B-3-C RE	Lab Sample ID:	410-57303-3		
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 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		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

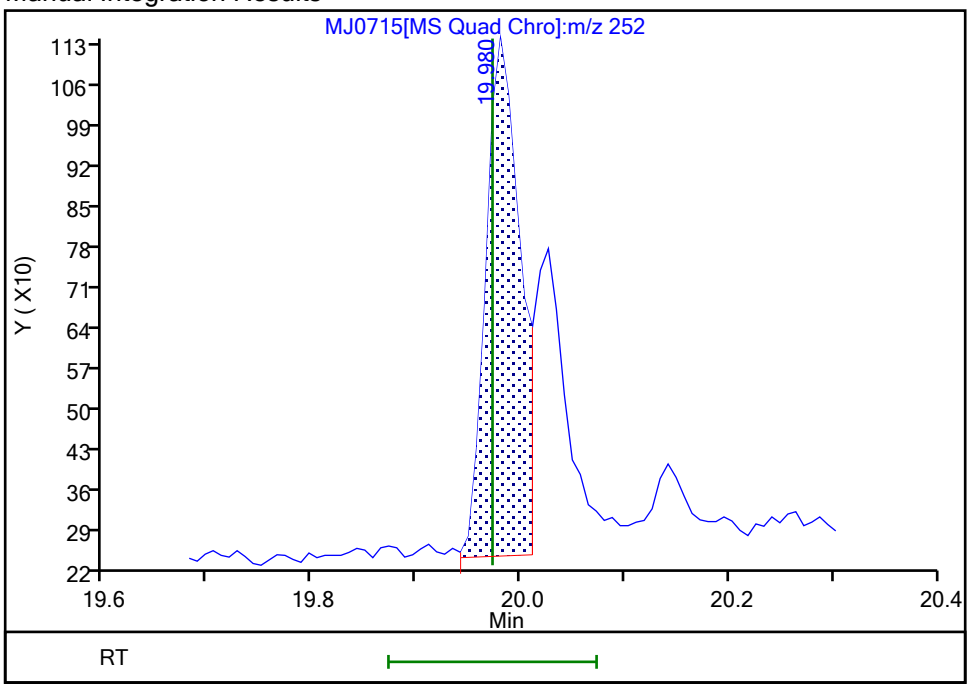
Processing Integration Results

RT: 19.98
Area: 2976
Amount: 0.002616
Amount Units: ug/ml



Manual Integration Results

RT: 19.98
Area: 2003
Amount: 0.001760
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:16:11

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-8S-20210928 Lab Sample ID: 410-57303-4

Matrix: Ground Water Lab File ID: MJ0517.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 15:24

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 244.9(mL) Date Analyzed: 10/07/2021 19:06

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.: 179971 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.18		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	ND		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	83		36-111
93951-69-0	Fluoranthene-d10 (Surr)	107		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0517.D
Lims ID: 410-57303-A-4-A
Client ID: MW-8S-20210928
Sample Type: Client
Inject. Date: 07-Oct-2021 19:06:41 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-4-A
Misc. Info.: 410-0040957-018
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 04:05:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	94	59501	0.2500	
* 5 Naphthalene-d8	136	9.257	9.237	0.020	96	201167	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.475	10.498	0.000	100	80465	0.2066	
* 13 Acenaphthene-d10	164	11.978	11.991	-0.013	97	102382	0.2500	
14 Acenaphthene	154	12.027	12.027	0.000	93	23318	0.0447	
* 20 Phenanthrene-d10	188	13.897	13.889	0.008	95	177688	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.609	15.612	0.006	100	187482	0.2664	
* 29 Chrysene-d12	240	18.071	18.063	0.008	55	177430	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.448	20.448	0.008	99	145859	0.2119	
* 38 Perylene-d12	264	20.571	20.571	0.000	99	193491	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.433	22.433	0.078	98	620	0.000755	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

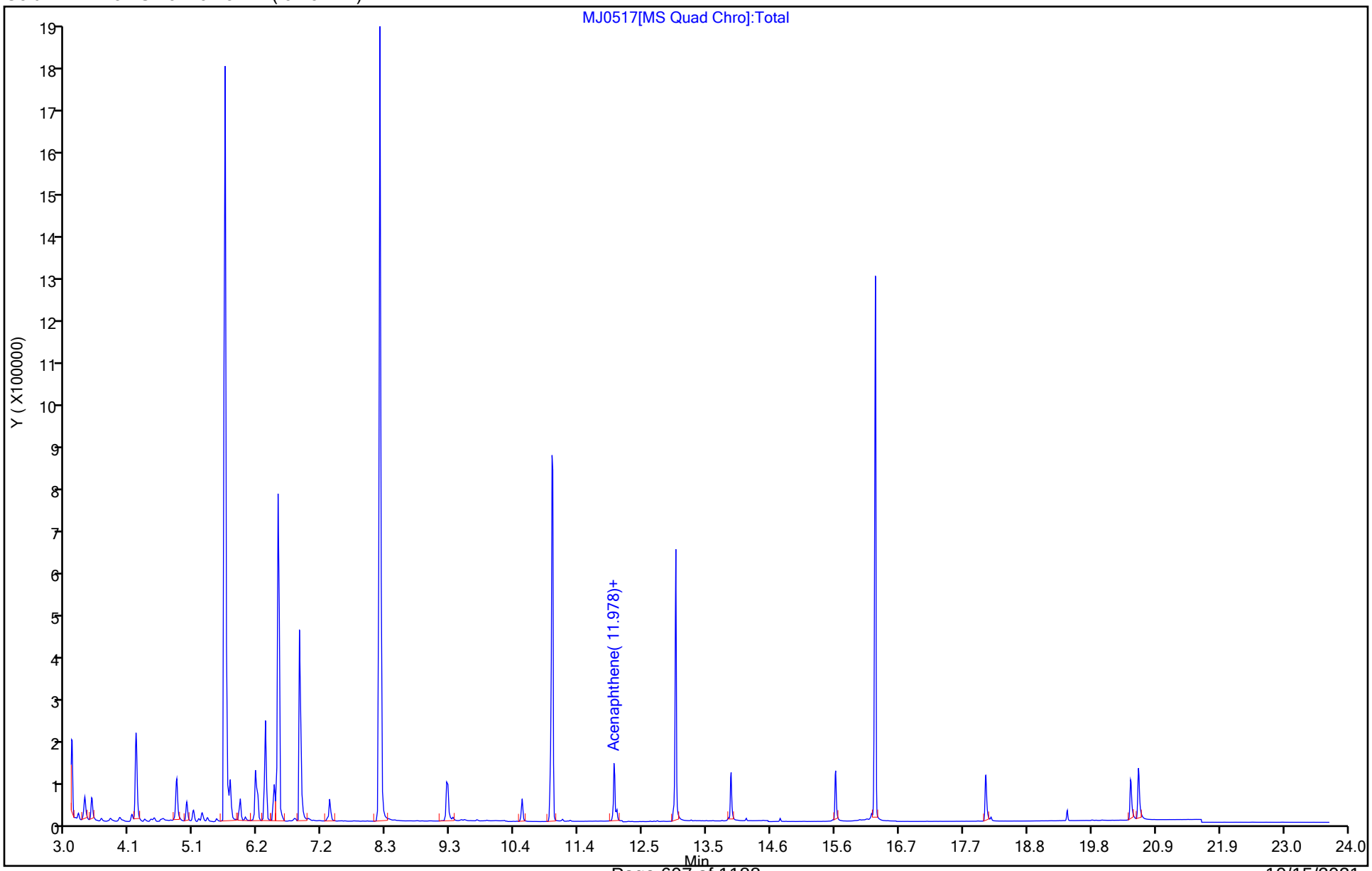
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Oct-2021 04:11:12 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0517.D				
Injection Date:	07-Oct-2021 19:06:41	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-4-A	Lab Sample ID:	410-57303-4	Worklist Smp#:	18
Client ID:	MW-8S-20210928				
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)



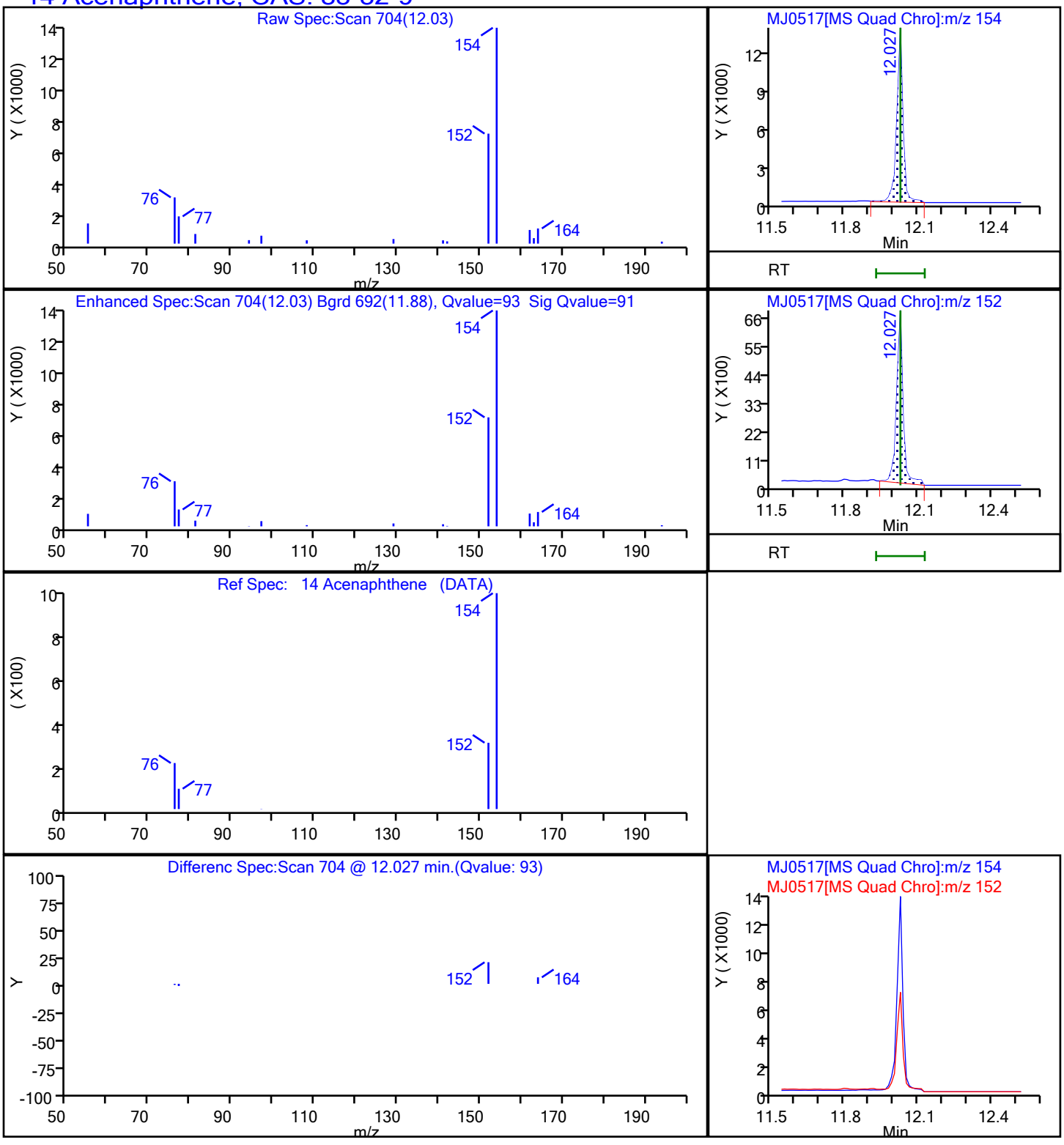
Report Date: 08-Oct-2021 04:11:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0517.D

Injection Date:	07-Oct-2021 19:06:41	Instrument ID:	HP21585
Lims ID:	410-57303-A-4-A	Lab Sample ID:	410-57303-4
Client ID:	MW-8S-20210928		
Operator ID:	jmg00346	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

14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

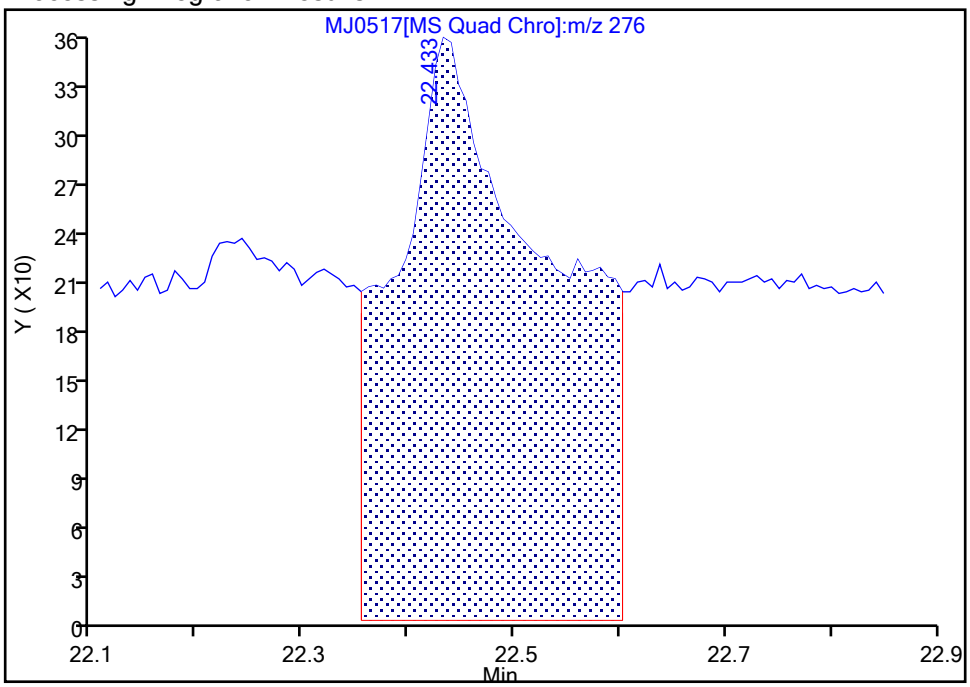
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0517.D				
Injection Date:	07-Oct-2021 19:06:41	Instrument ID:	HP21585		
Lims ID:	410-57303-A-4-A	Lab Sample ID:	410-57303-4		
Client ID:	MW-8S-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	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

Signal: 1

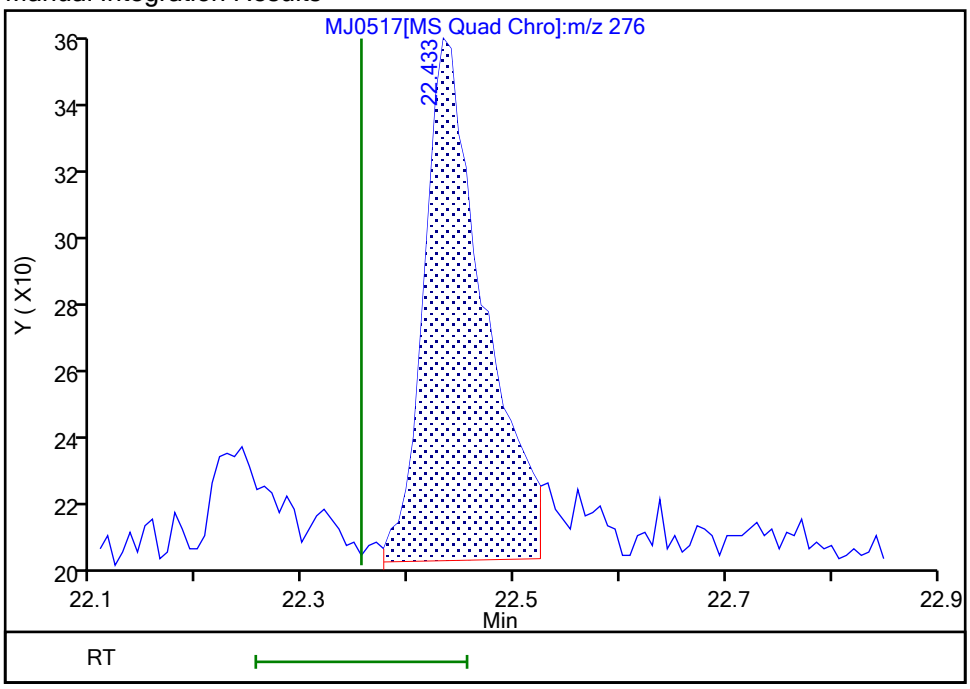
Processing Integration Results

RT: 22.43
Area: 3681
Amount: 0.004481
Amount Units: ug/ml



Manual Integration Results

RT: 22.43
Area: 620
Amount: 0.000755
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:05:48
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-8D-20210928 Lab Sample ID: 410-57303-5

Matrix: Ground Water Lab File ID: MJ0518.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 16:03

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 247.6(mL) Date Analyzed: 10/07/2021 19:36

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.: 179971 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	0.012	J	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	0.017	J	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	0.025	J	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		0.071	0.030
85-01-8	Phenanthrene	0.030	J	0.071	0.030
129-00-0	Pyrene	0.027	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	75		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	78		36-111
93951-69-0	Fluoranthene-d10 (Surr)	99		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0518.D
Lims ID: 410-57303-A-5-A
Client ID: MW-8D-20210928
Sample Type: Client
Inject. Date: 07-Oct-2021 19:36:22 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-5-A
Misc. Info.: 410-0040957-019
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 04:07:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	94	63604	0.2500	
* 5 Naphthalene-d8	136	9.258	9.237	0.021	92	213992	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.475	10.498	0.000	100	80953	0.1954	
* 13 Acenaphthene-d10	164	11.991	11.991	0.000	90	108152	0.2500	
* 20 Phenanthrene-d10	188	13.897	13.889	0.008	95	193639	0.2500	
21 Phenanthrene	178	13.928	13.928	0.008	100	7552	0.007523	M
$ 24 Fluoranthene-d10 (Surr)	212	15.609	15.612	0.006	99	189299	0.2468	
25 Fluoranthene	202	15.640	15.634	0.006	100	6434	0.006076	
26 Pyrene	202	16.010	16.004	0.019	100	8344	0.006606	
* 29 Chrysene-d12	240	18.071	18.063	0.008	55	190226	0.2500	
30 Chrysene	228	18.117	18.124	0.008	100	5031	0.004146	
33 Benzo[b]fluoranthene	252	19.980	19.980	0.046	100	3625	0.003085	M
34 Benzo[k]fluoranthene	252	20.019	20.019	0.039	99	1408	0.001123	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.448	20.448	0.008	99	138469	0.1880	
37 Benzo[a]pyrene	252	20.487	20.487	0.008	100	2339	0.002136	7M
* 38 Perylene-d12	264	20.579	20.571	0.008	100	207099	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.447	22.433	0.092	98	2021	0.002299	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

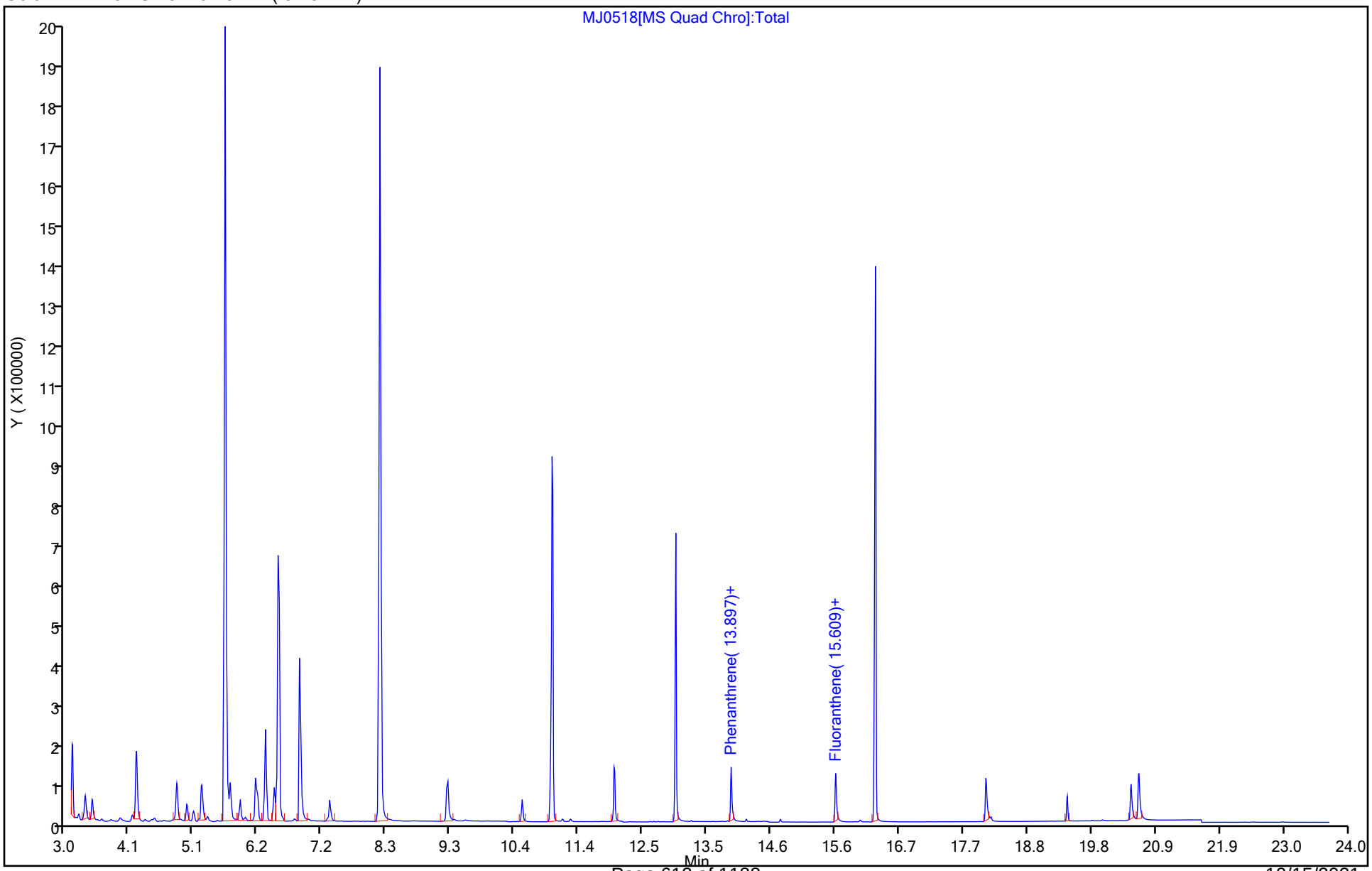
Report Date: 08-Oct-2021 04:11:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0518.D

Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5	Worklist Smp#:	19
Client ID:	MW-8D-20210928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

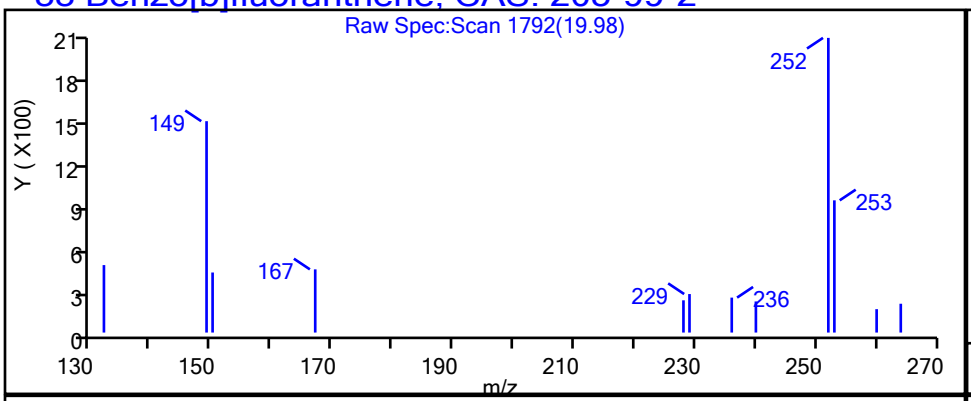
Column: DB-5MS 20m 0.25mm (0.25 mm)

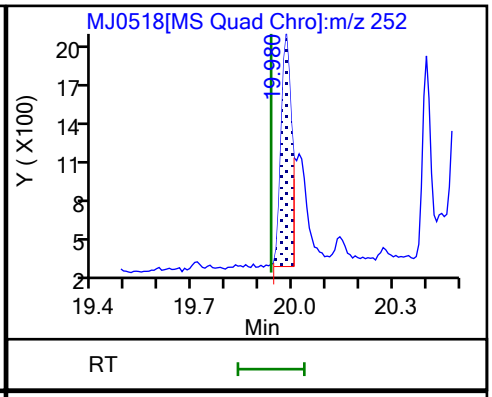


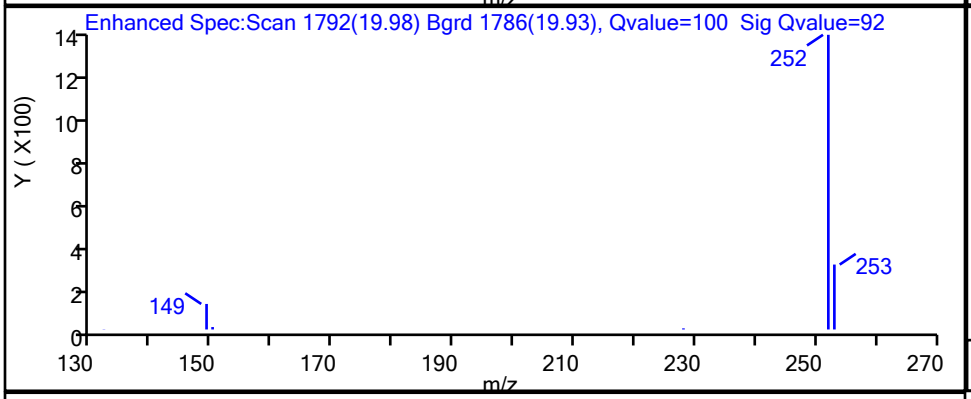
Eurofins Lancaster Laboratories Env, LLC

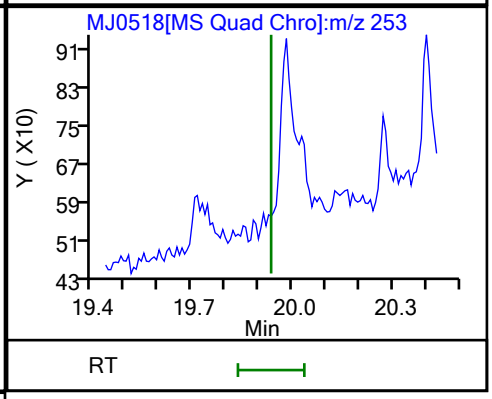
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0518.D				
Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	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		

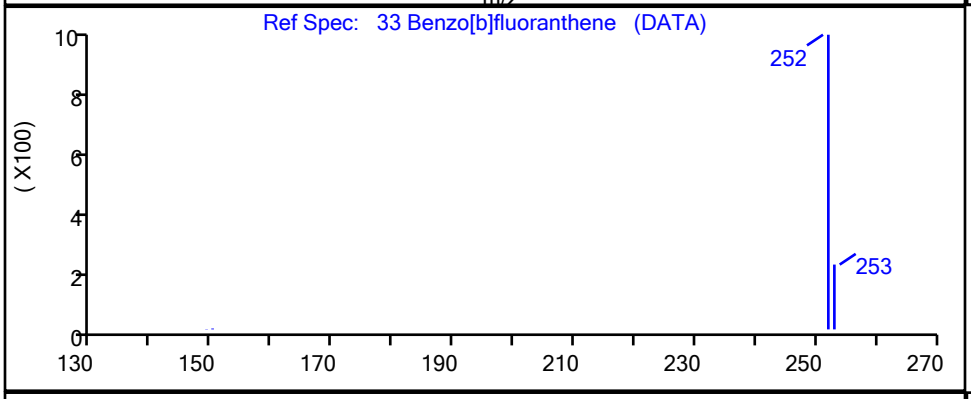
33 Benzo[b]fluoranthene, CAS: 205-99-2

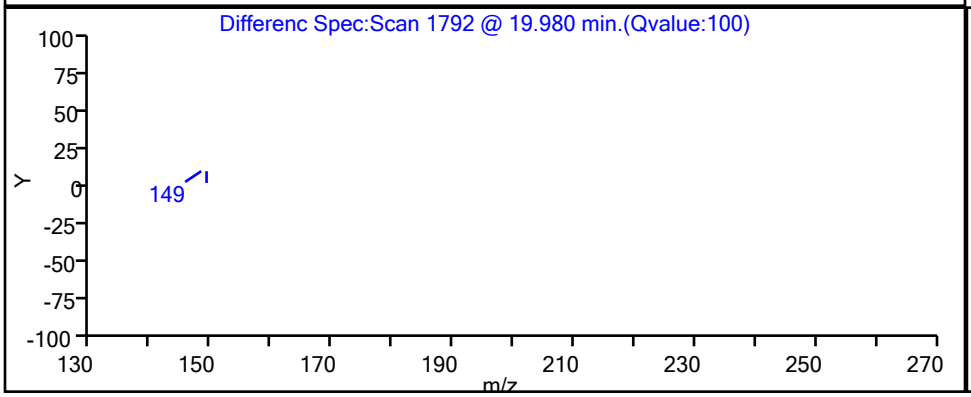


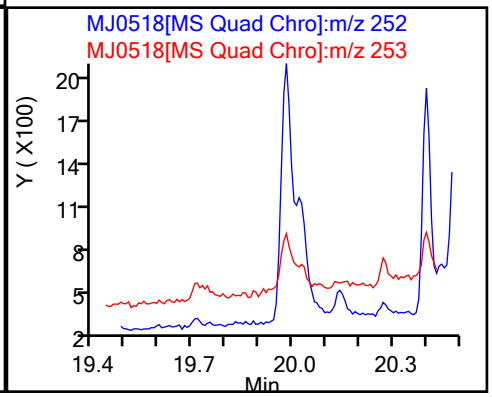










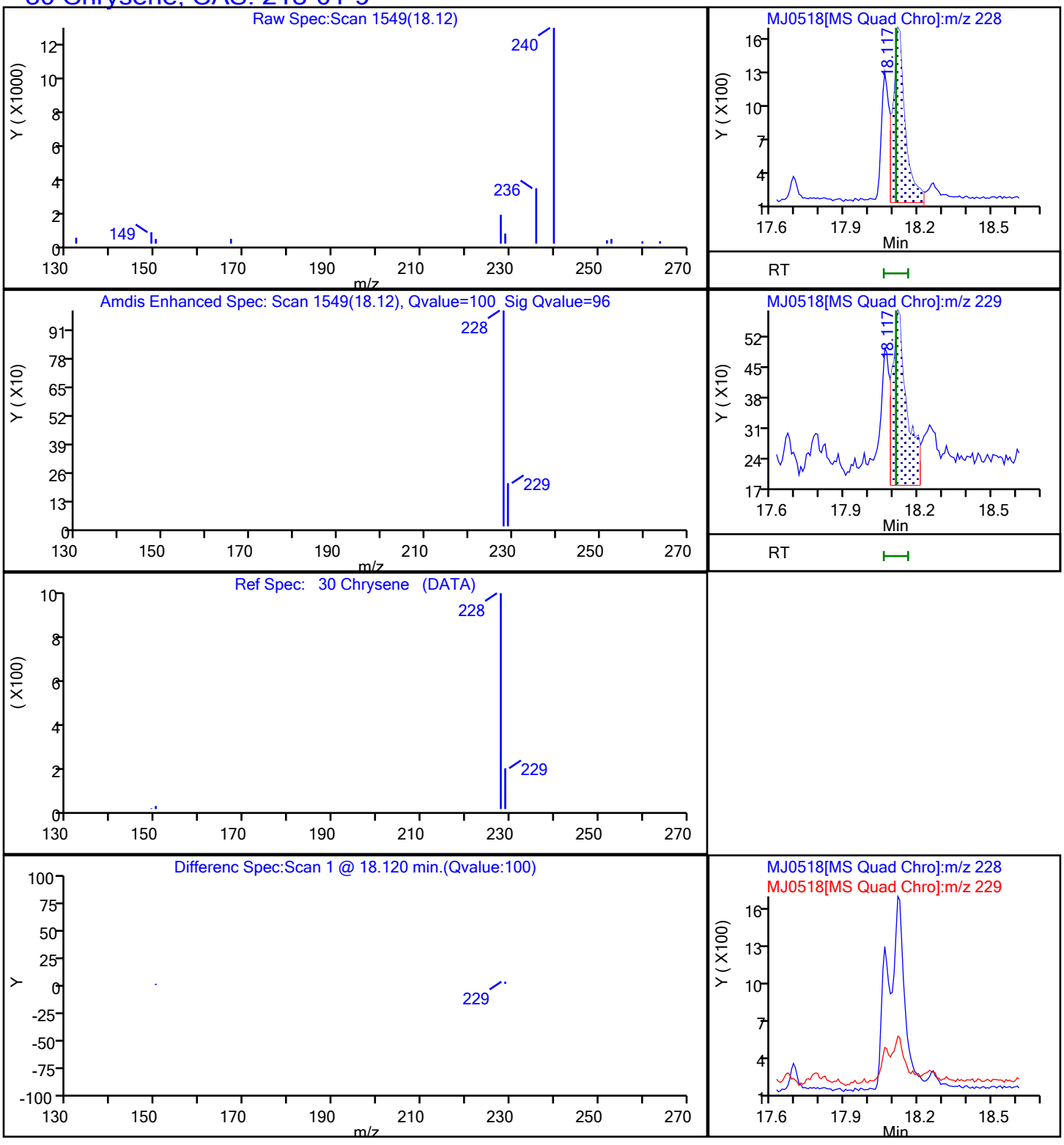


Report Date: 08-Oct-2021 04:11:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0518.D				
Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	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



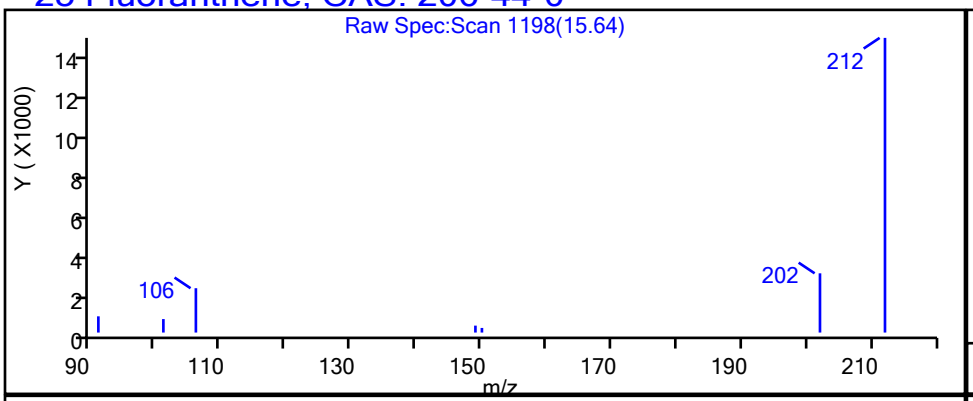
Report Date: 08-Oct-2021 04:11:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

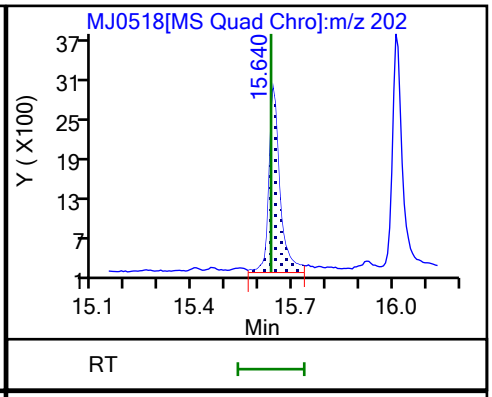
Eurofins Lancaster Laboratories Env, LLC

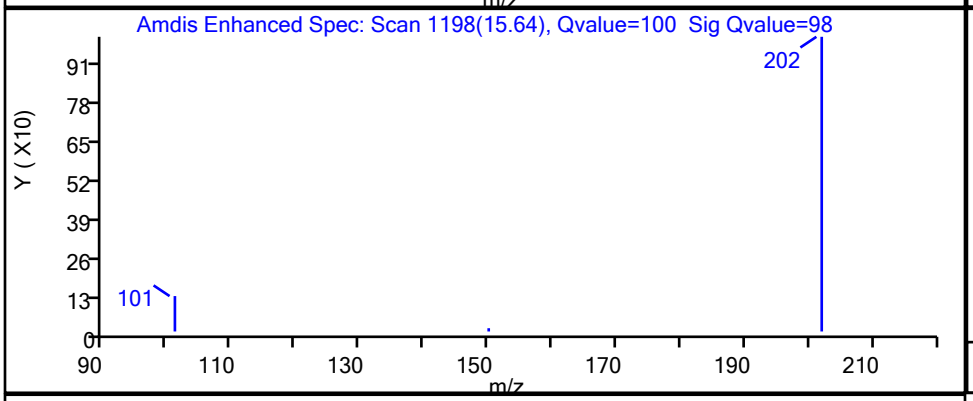
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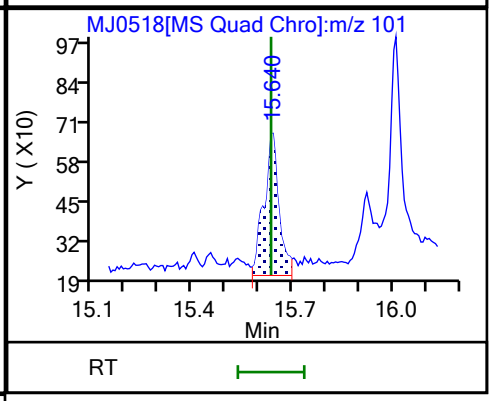
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Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

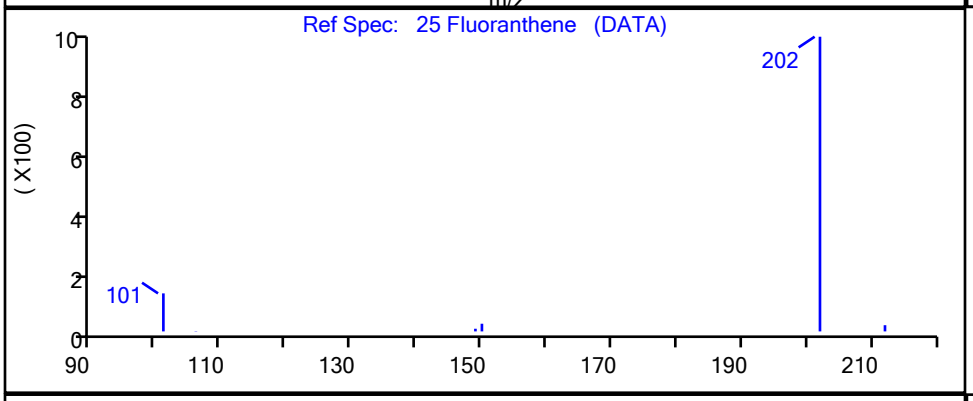
25 Fluoranthene, CAS: 206-44-0

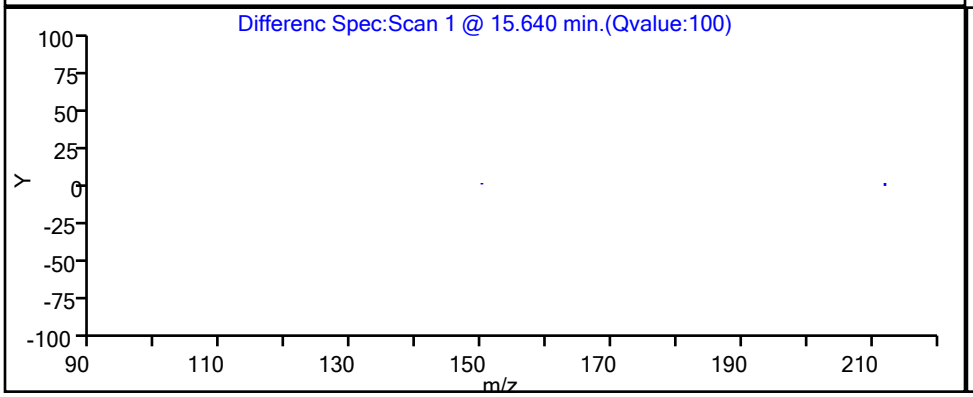


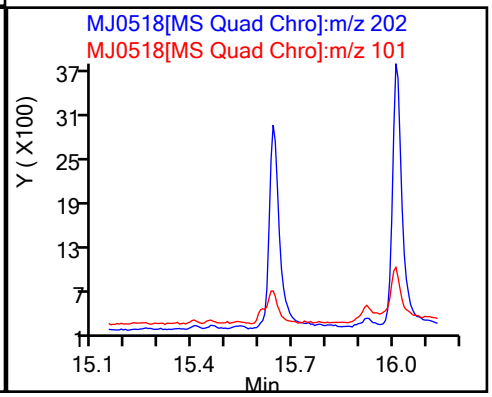










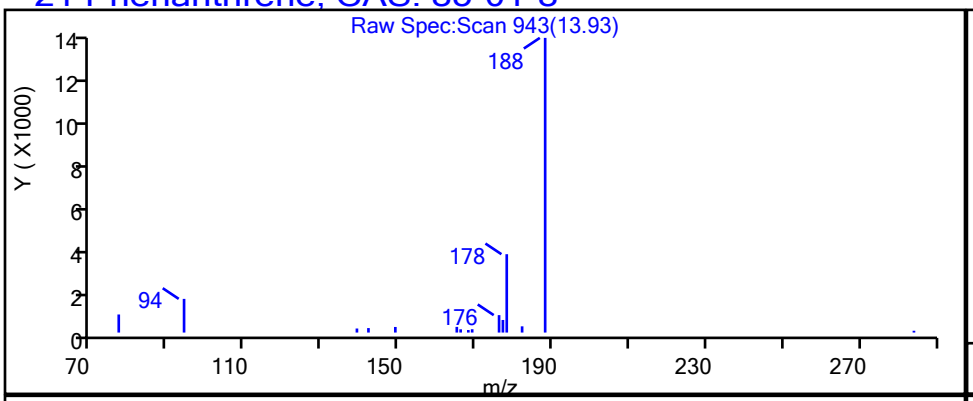


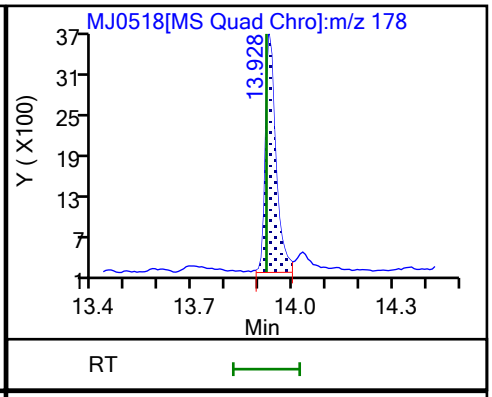
Report Date: 08-Oct-2021 04:11:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

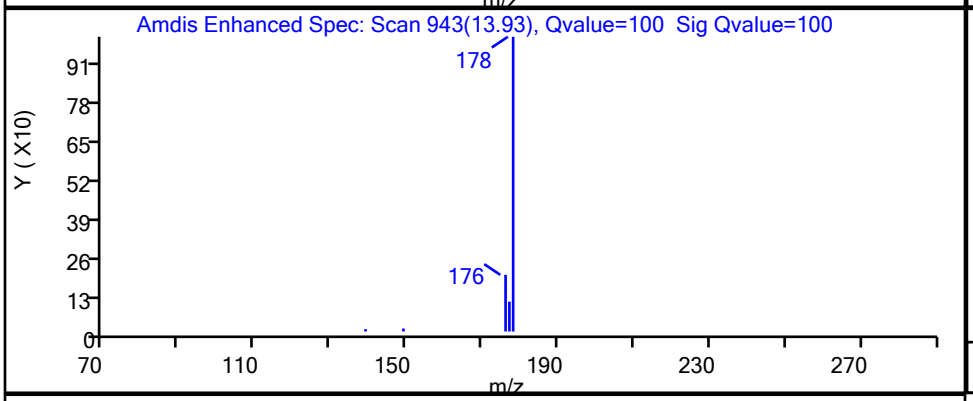
Eurofins Lancaster Laboratories Env, LLC

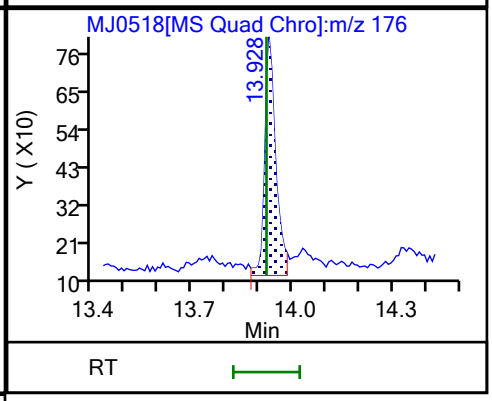
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

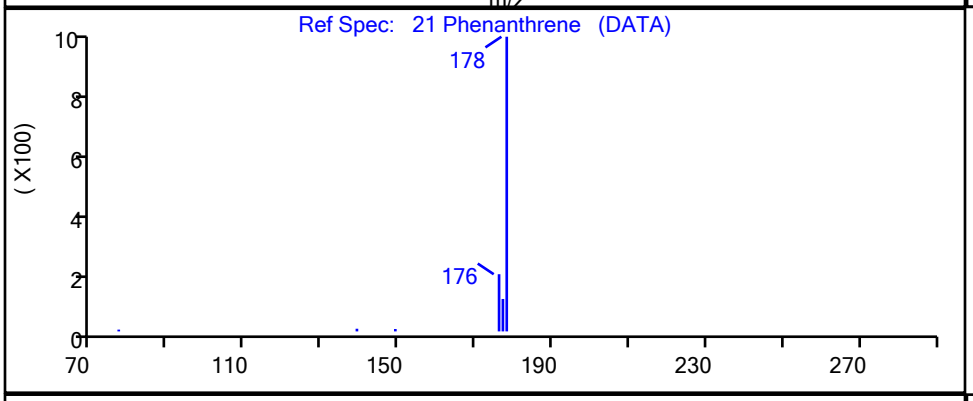
21 Phenanthrene, CAS: 85-01-8

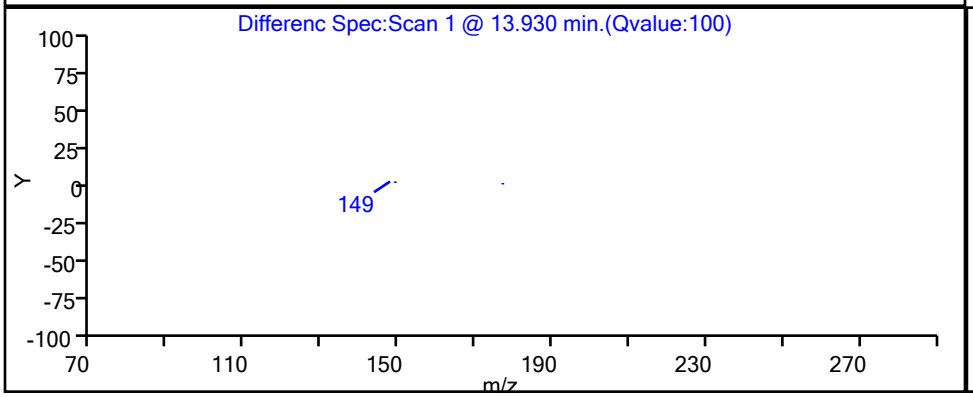


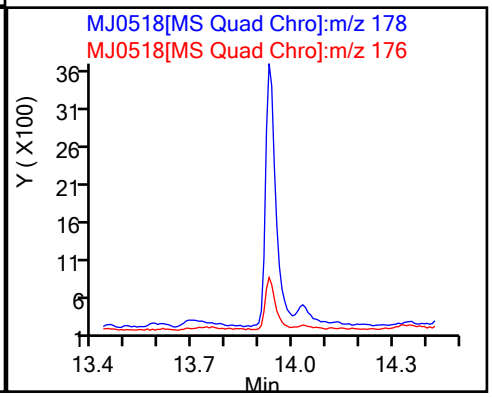










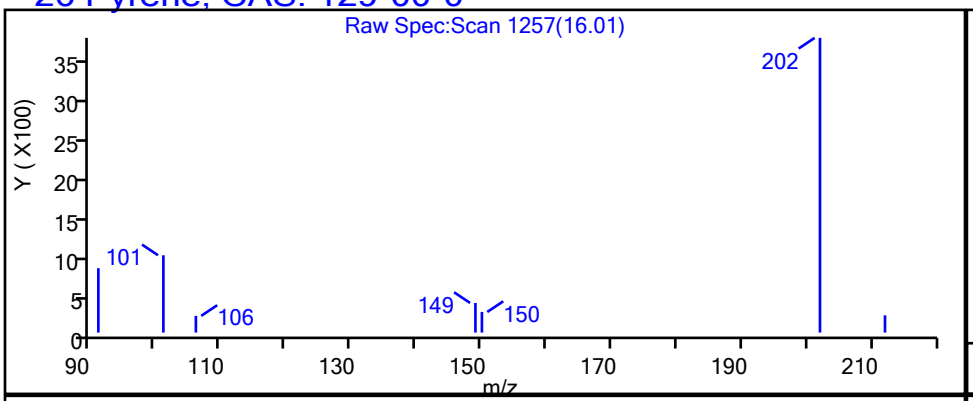


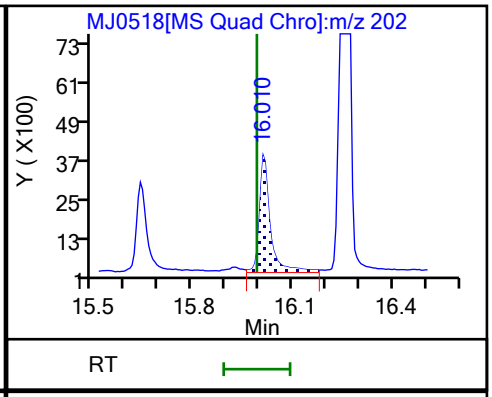
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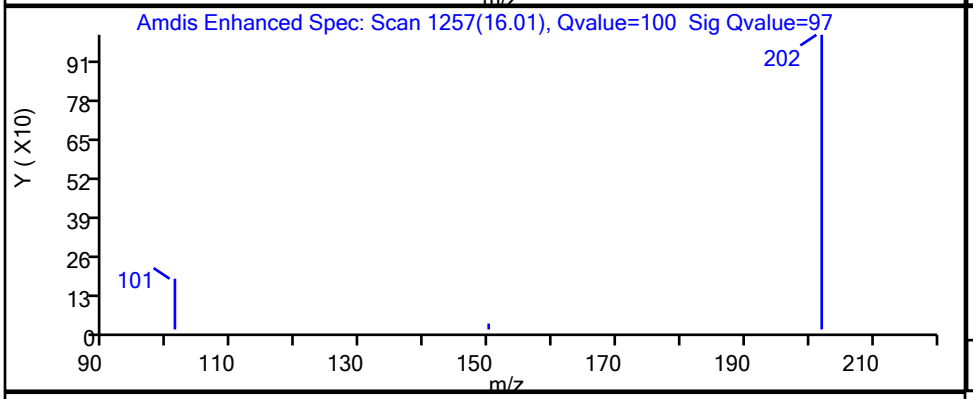
Eurofins Lancaster Laboratories Env, LLC

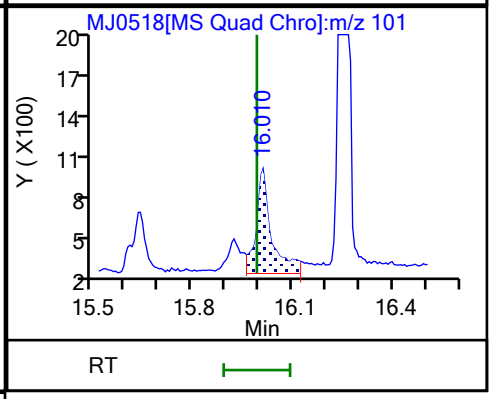
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

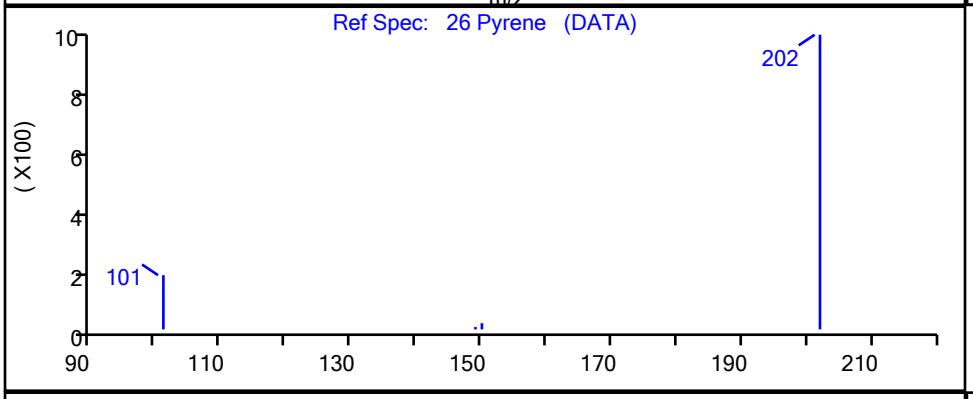
26 Pyrene, CAS: 129-00-0

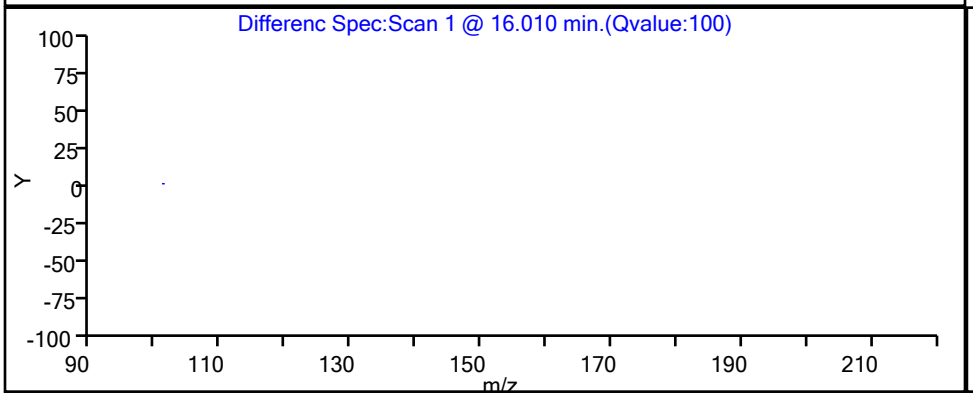


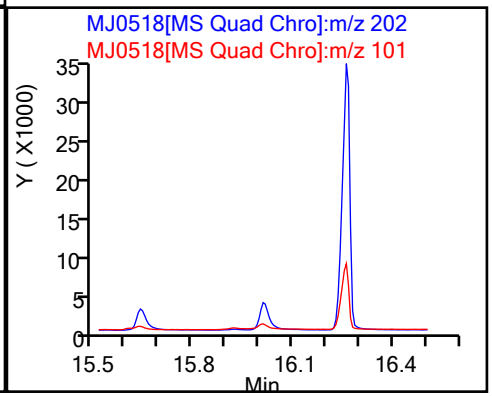












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

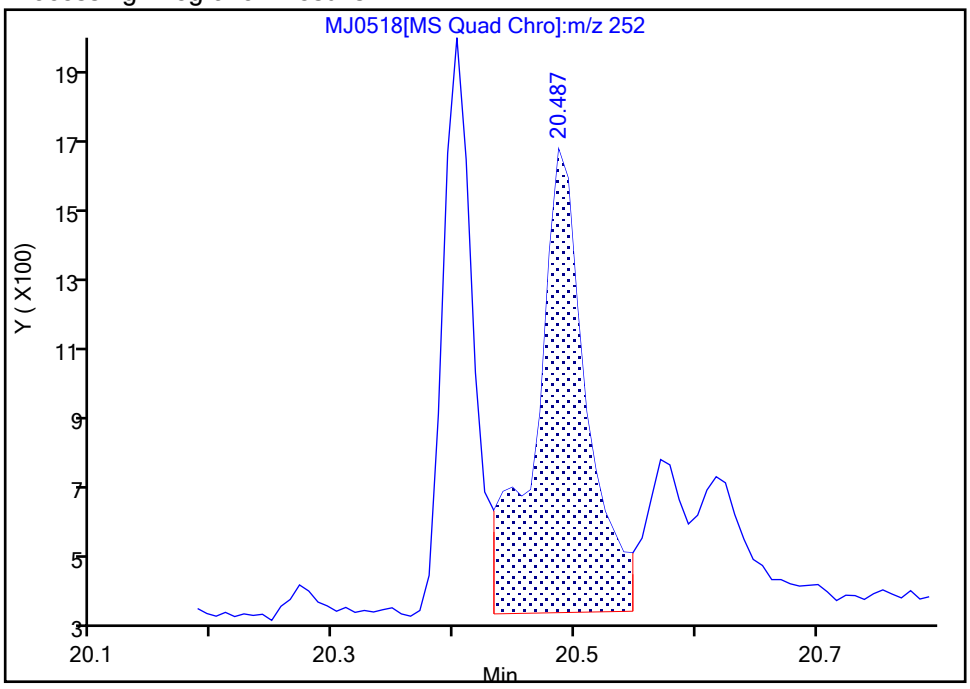
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

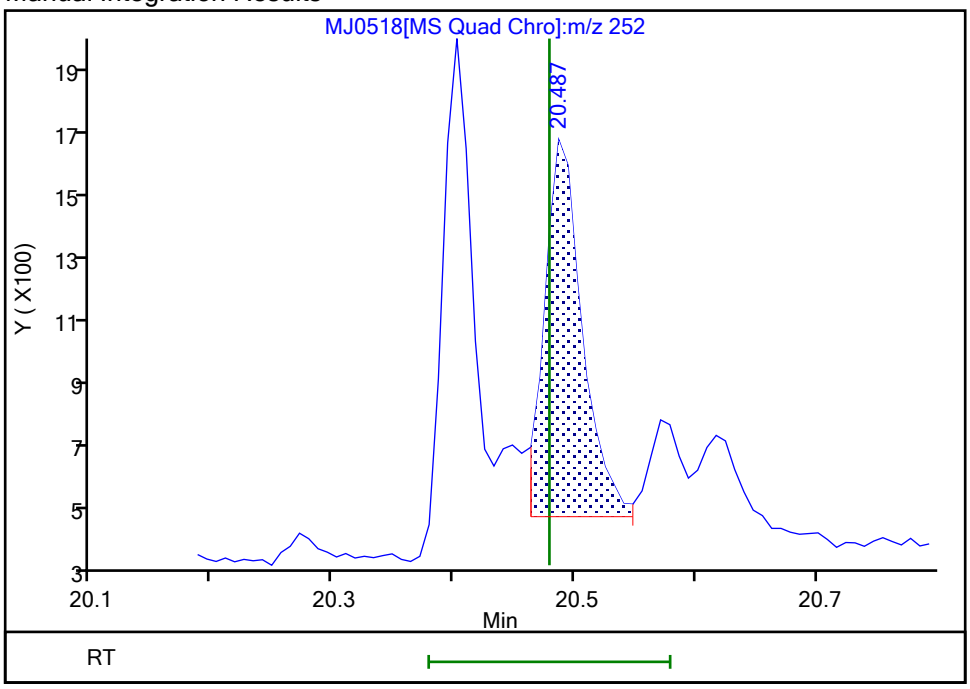
Processing Integration Results

RT: 20.49
Area: 3523
Amount: 0.003217
Amount Units: ug/ml



Manual Integration Results

RT: 20.49
Area: 2339
Amount: 0.002136
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:07:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

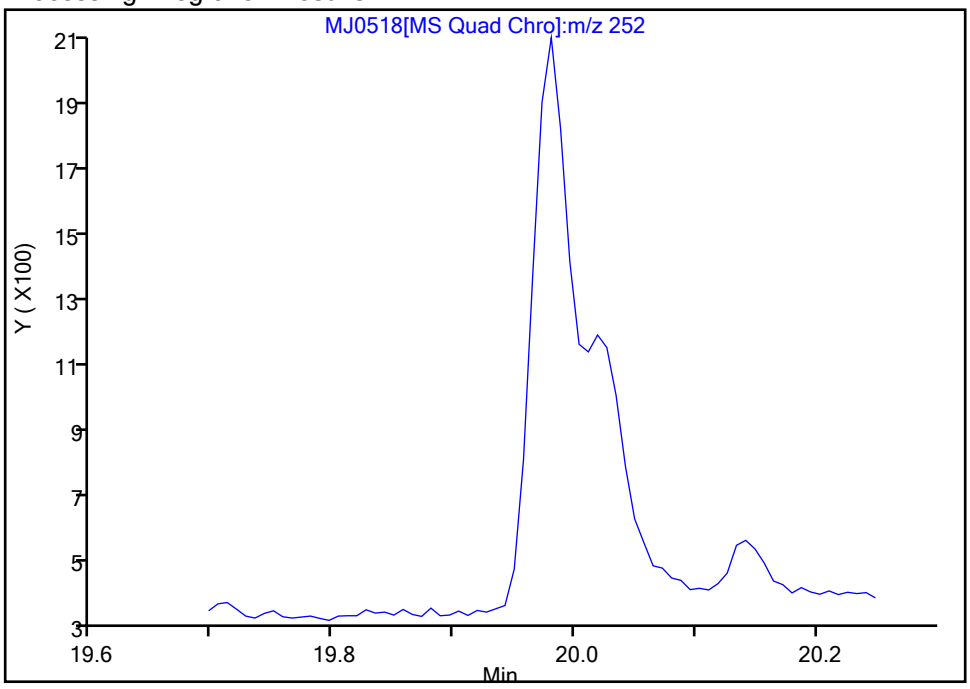
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

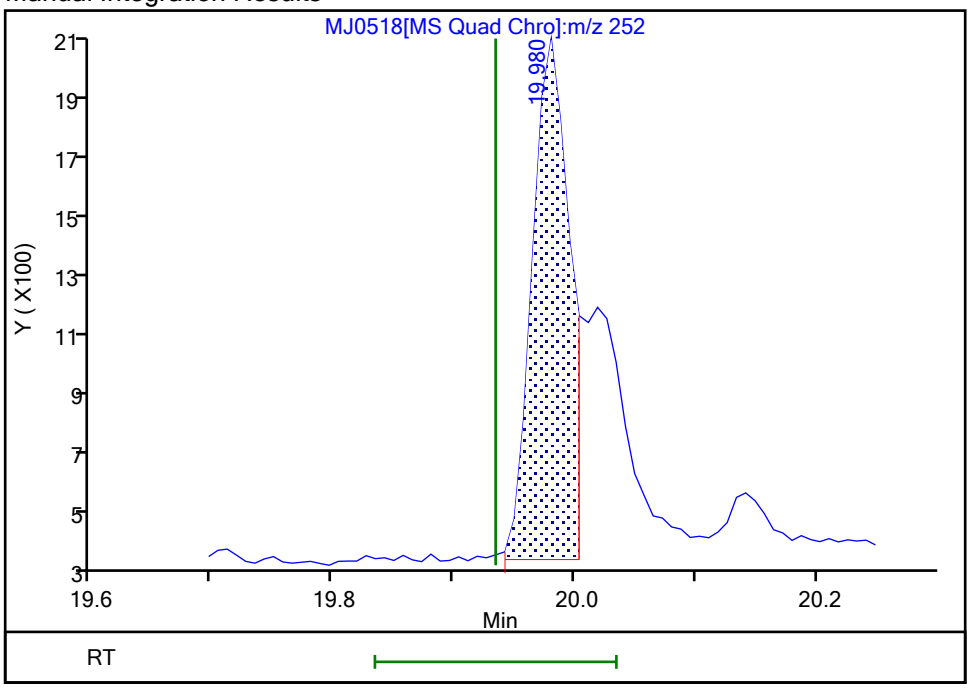
Not Detected
Expected RT: 19.93

Processing Integration Results



Manual Integration Results

RT: 19.98
Area: 3625
Amount: 0.003085
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:07:01
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

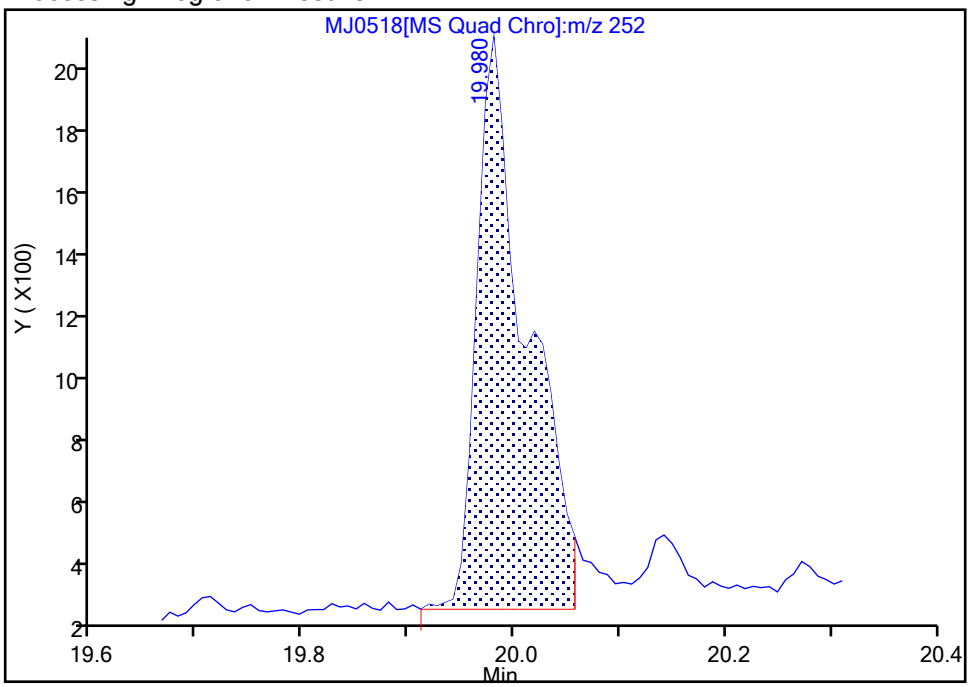
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

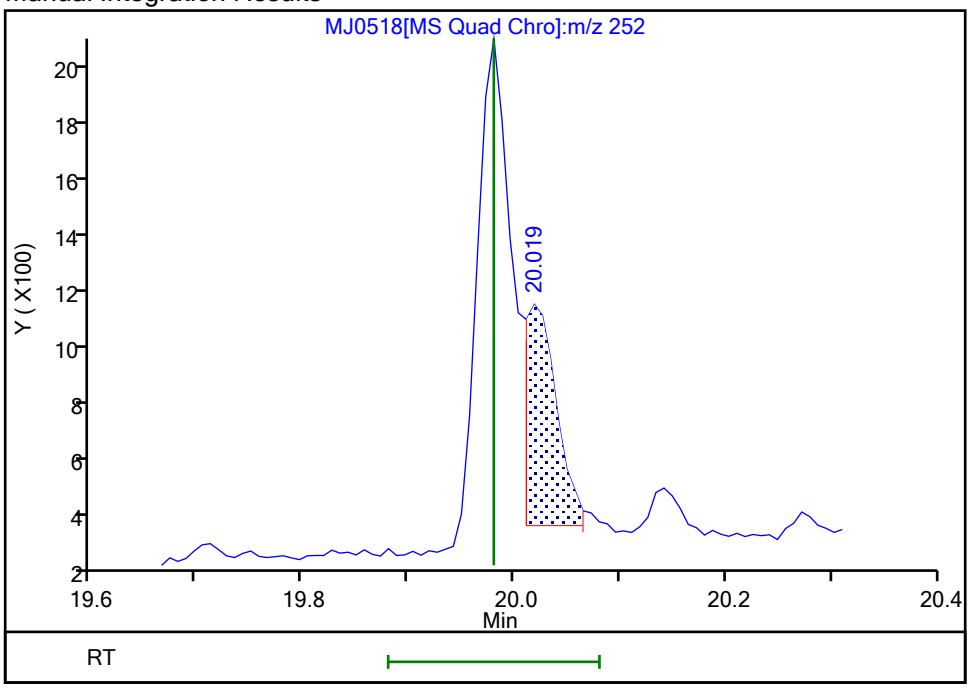
Processing Integration Results

RT: 19.98
Area: 5685
Amount: 0.004534
Amount Units: ug/ml



Manual Integration Results

RT: 20.02
Area: 1408
Amount: 0.001123
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:07:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

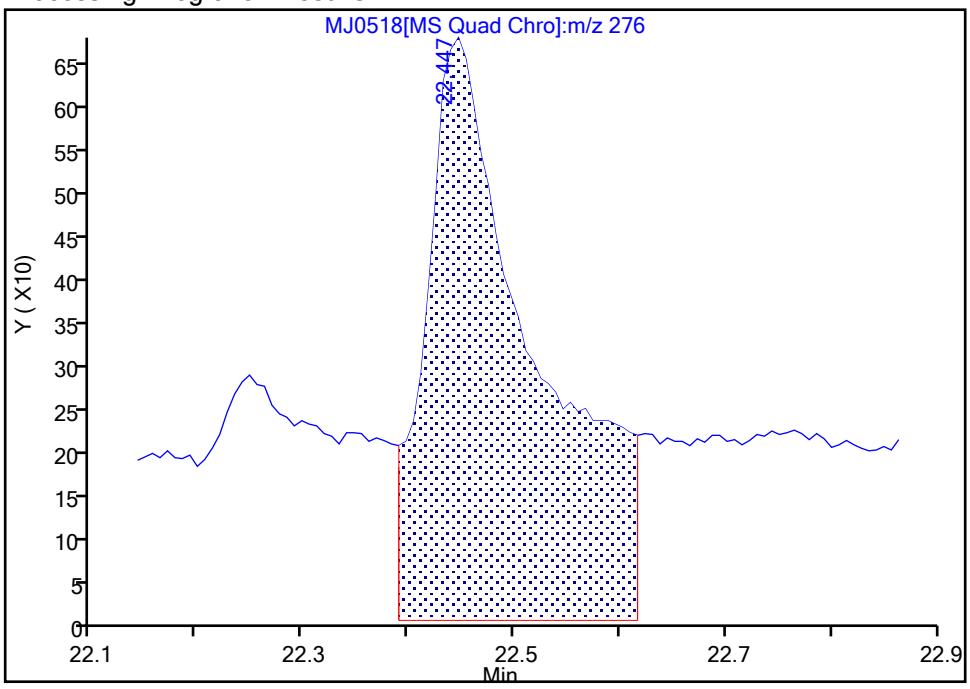
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

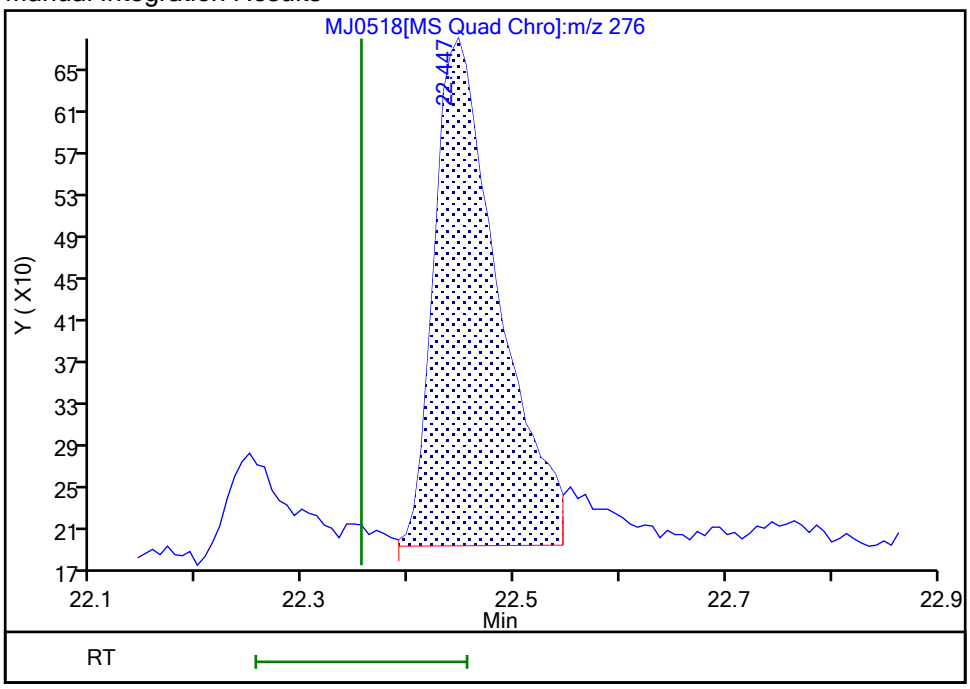
Processing Integration Results

RT: 22.45
Area: 4853
Amount: 0.005520
Amount Units: ug/ml



Manual Integration Results

RT: 22.45
Area: 2021
Amount: 0.002299
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:07:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

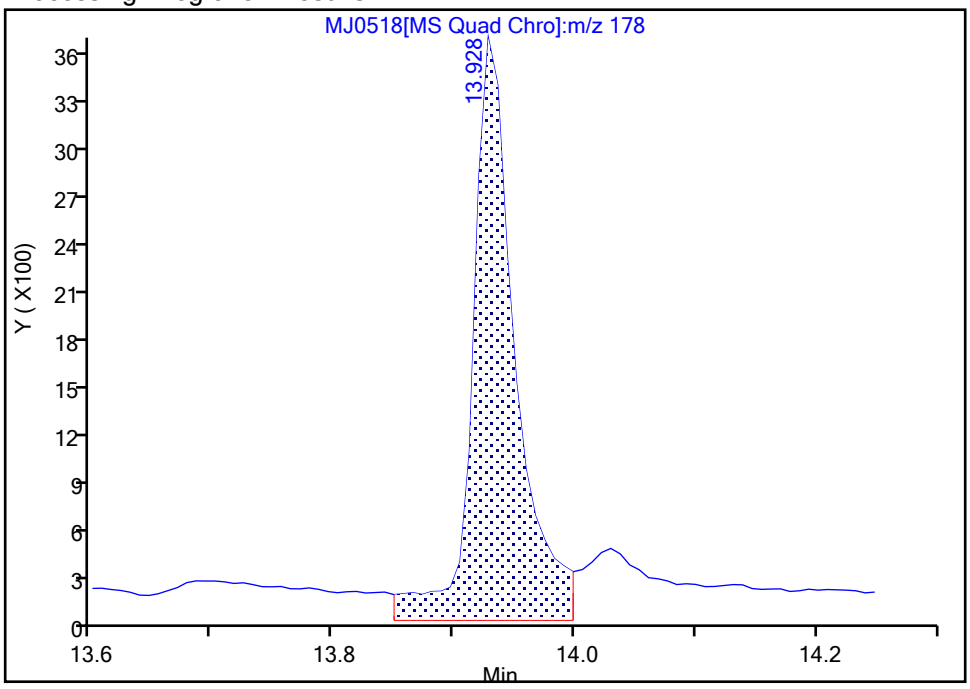
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Injection Date:	07-Oct-2021 19:36:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-5-A	Lab Sample ID:	410-57303-5		
Client ID:	MW-8D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

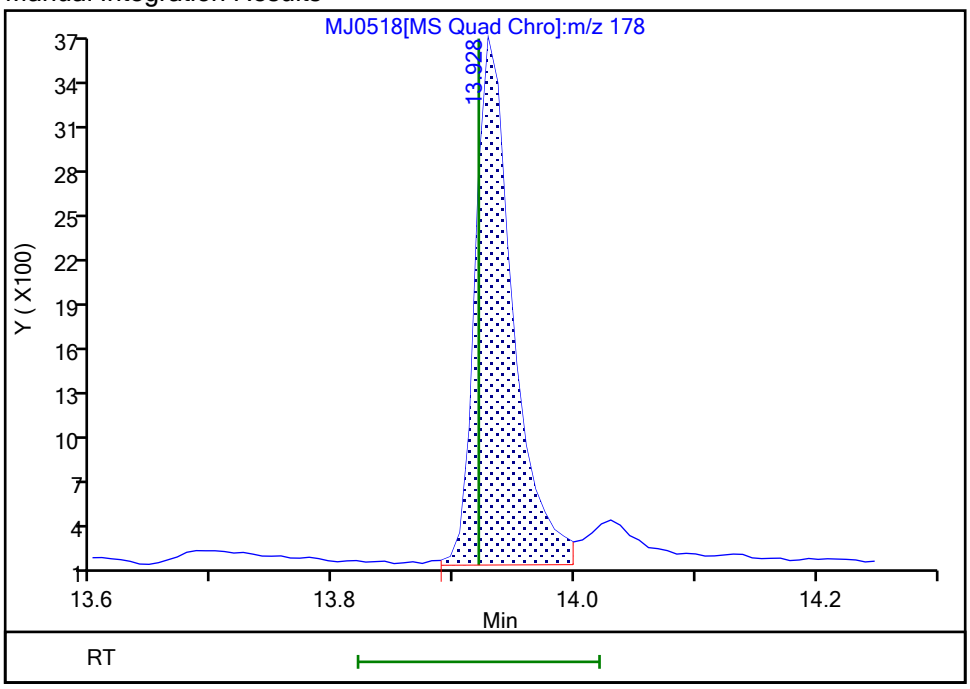
Processing Integration Results

RT: 13.93
Area: 8948
Amount: 0.008913
Amount Units: ug/ml



Manual Integration Results

RT: 13.93
Area: 7552
Amount: 0.007523
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:06:42

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-7S-20210929 Lab Sample ID: 410-57303-6

Matrix: Ground Water Lab File ID: MJ0519.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 08:48

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 246.7(mL) Date Analyzed: 10/07/2021 20:06

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.: 179971 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.033	J	0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	0.024	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	0.020
206-44-0	Fluoranthene	0.017	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	ND		0.071	0.030
129-00-0	Pyrene	0.013	J	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)	77		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\HP21585\20211007-40957.b\MJ0519.D				
Lims ID:	410-57303-A-6-A				
Client ID:	MW-7S-20210929				
Sample Type:	Client				
Inject. Date:	07-Oct-2021 20:06:04	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-57303-A-6-A				
Misc. Info.:	410-0040957-020				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Oct-2021 04:08:59	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1673				
First Level Reviewer: gamblerj		Date:	08-Oct-2021 04:08:59		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	92	60458	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	96	206565	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.474	10.498	-0.001	100	77164	0.1930	
* 13 Acenaphthene-d10	164	11.978	11.991	-0.013	92	102893	0.2500	
14 Acenaphthene	154	12.027	12.027	0.000	87	4268	0.008149	
* 20 Phenanthrene-d10	188	13.889	13.889	0.000	95	159840	0.2500	
21 Phenanthrene	178	13.928	13.928	0.008	100	4997	0.006030	7M
22 Anthracene	178	14.006	14.006	0.008	100	4494	0.005926	M
$ 24 Fluoranthene-d10 (Surr)	212	15.609	15.612	0.006	100	164161	0.2593	
25 Fluoranthene	202	15.634	15.634	0.000	99	3572	0.004086	M
26 Pyrene	202	16.004	16.004	0.013	100	3993	0.003284	M
* 29 Chrysene-d12	240	18.063	18.063	0.000	55	183080	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.440	20.448	0.000	100	131047	0.1898	
* 38 Perylene-d12	264	20.571	20.571	0.000	99	194053	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.433	22.433	0.078	97	876	0.001063	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

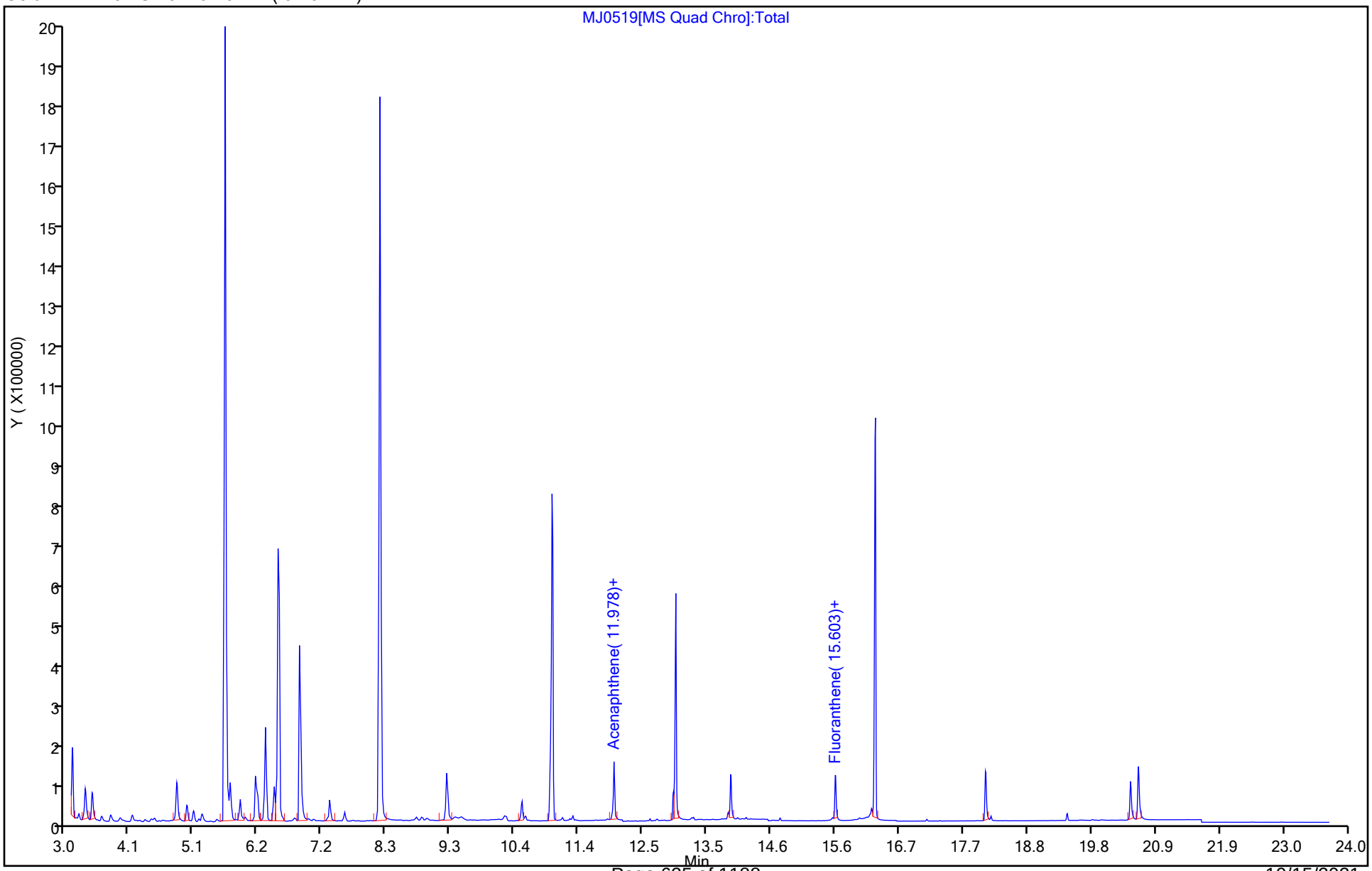
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Oct-2021 04:11:14 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0519.D				
Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6	Worklist Smp#:	20
Client ID:	MW-7S-20210929				
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)



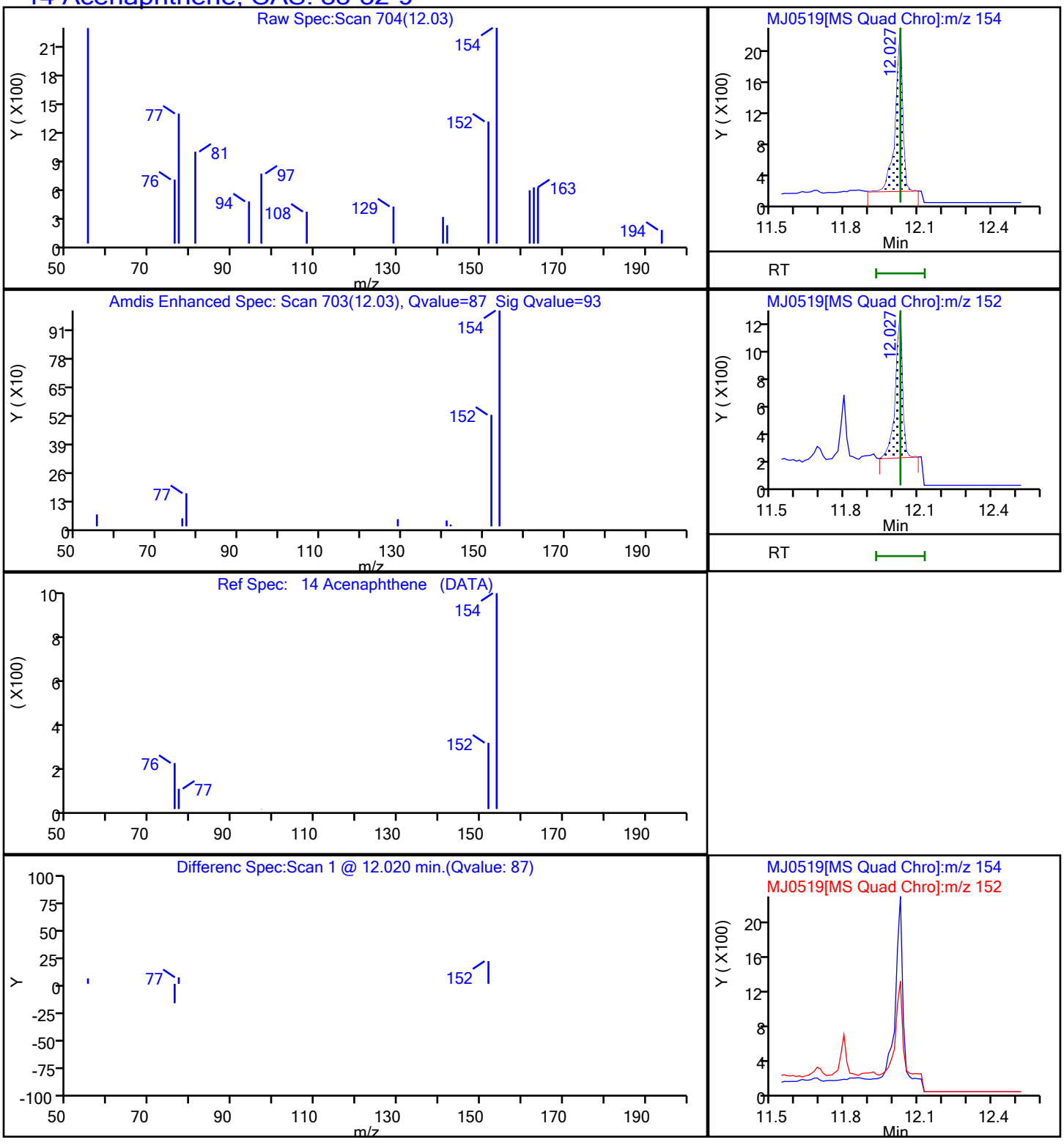
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0519.D

Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	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

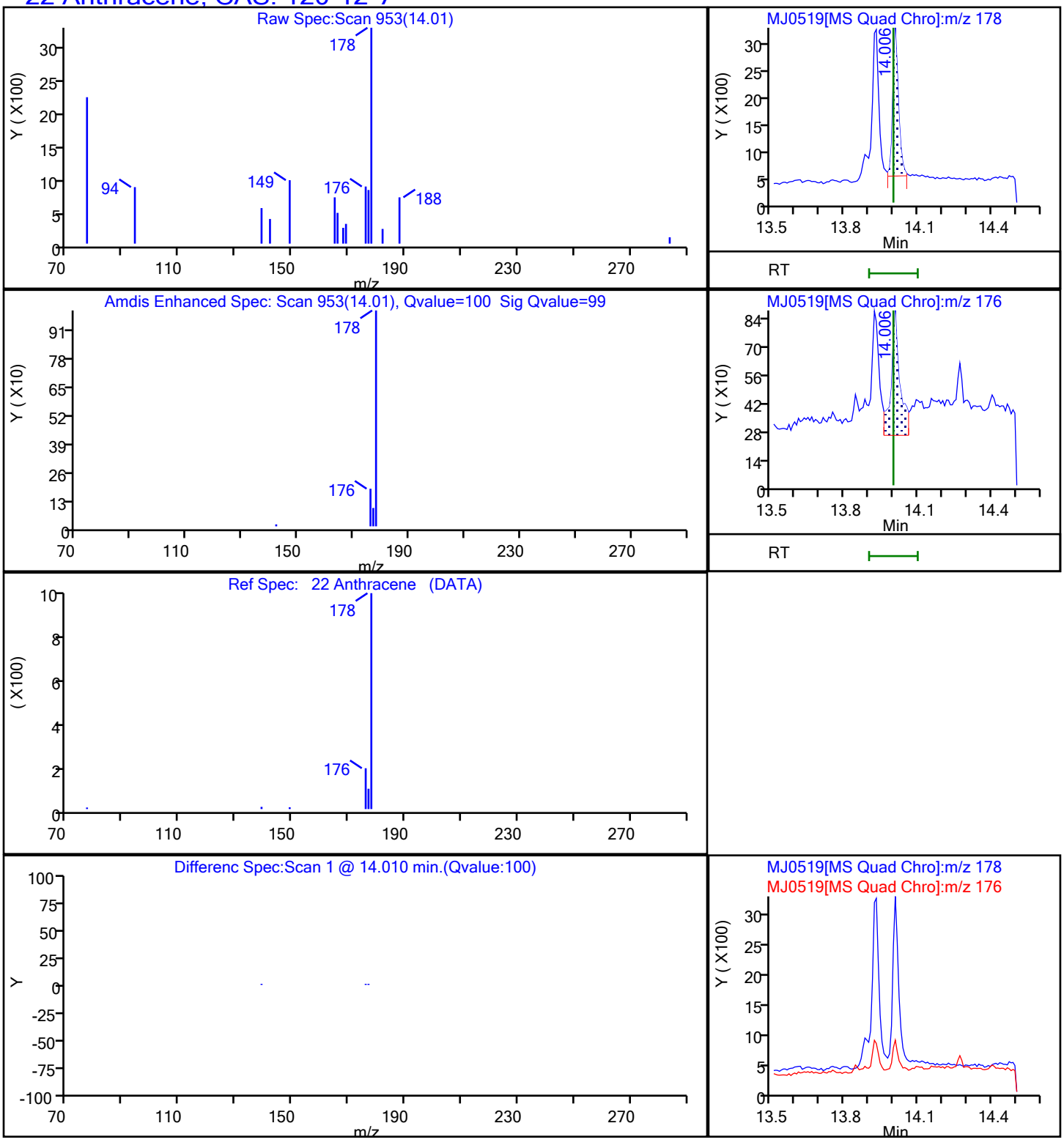


Report Date: 08-Oct-2021 04:11:14 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0519.D				
Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	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



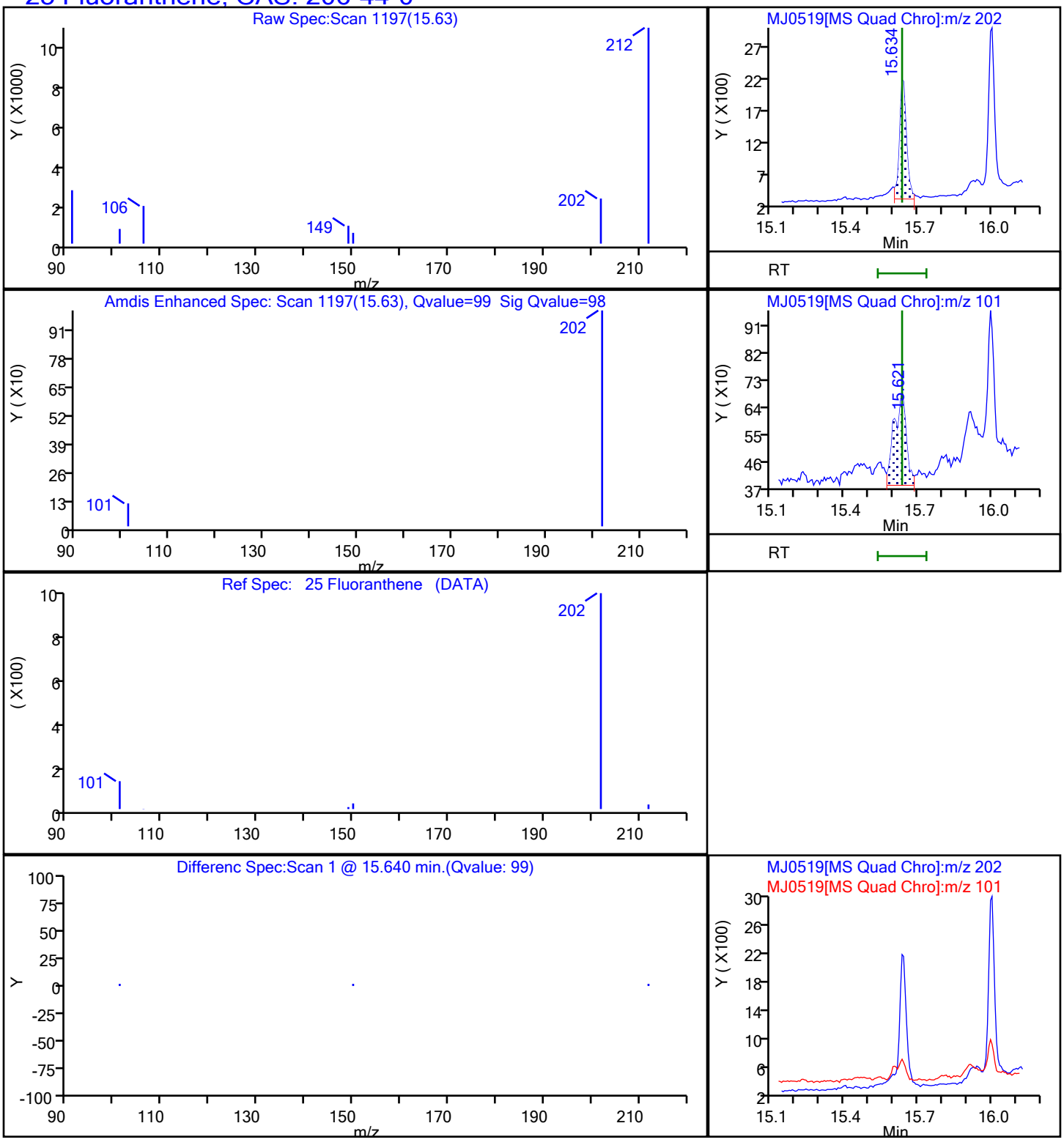
Report Date: 08-Oct-2021 04:11:14 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0519.D

Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	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



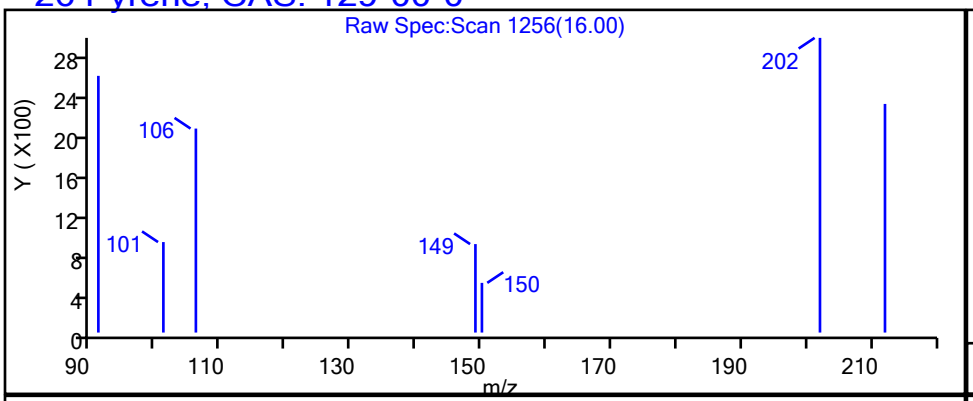
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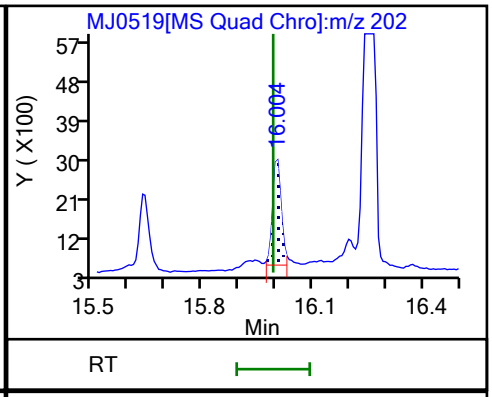
Eurofins Lancaster Laboratories Env, LLC

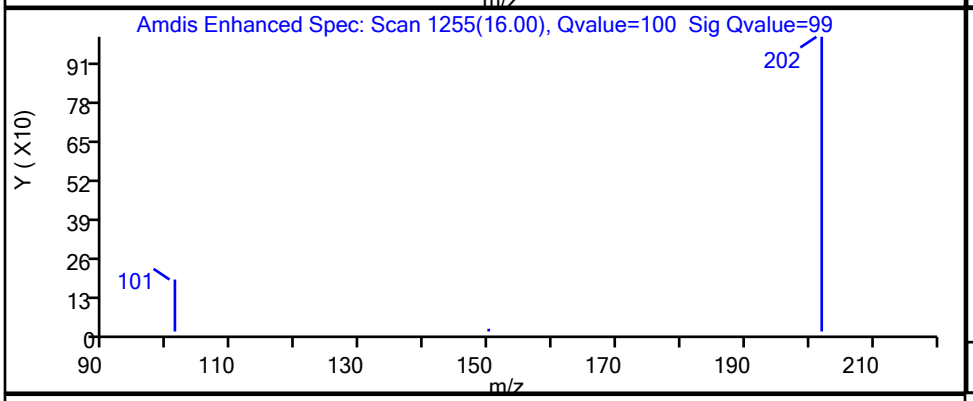
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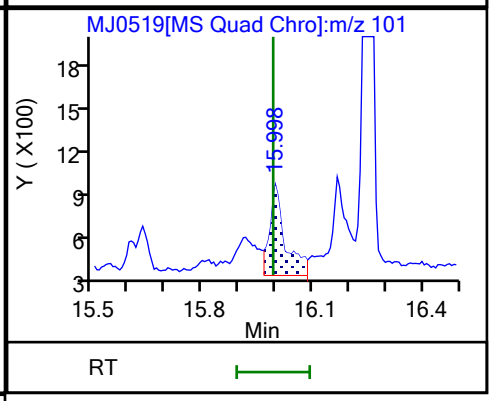
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Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6
Client ID:	MW-7S-20210929		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

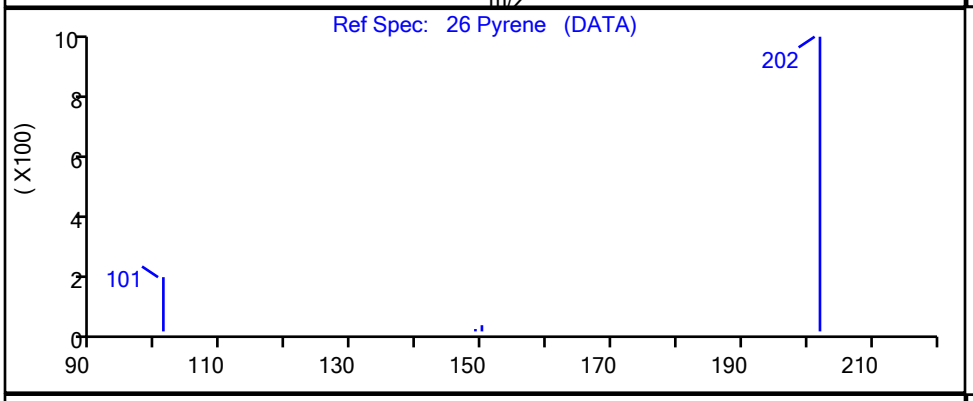
26 Pyrene, CAS: 129-00-0

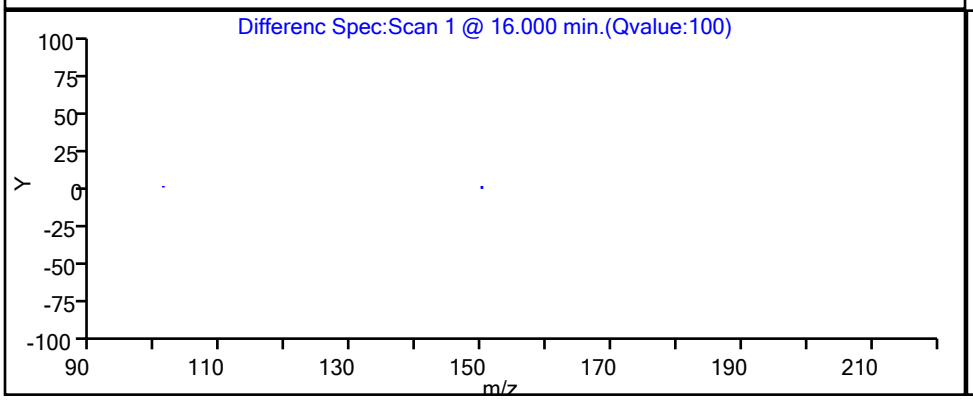


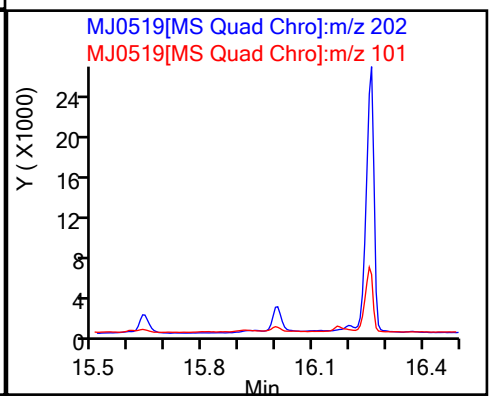












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

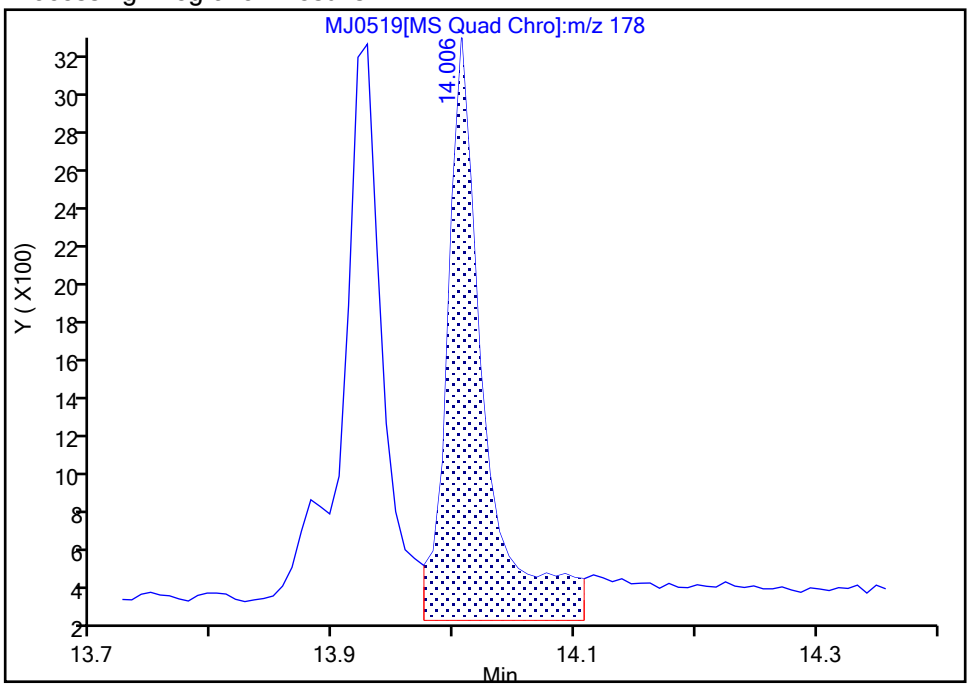
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Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6
Client ID:	MW-7S-20210929		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	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

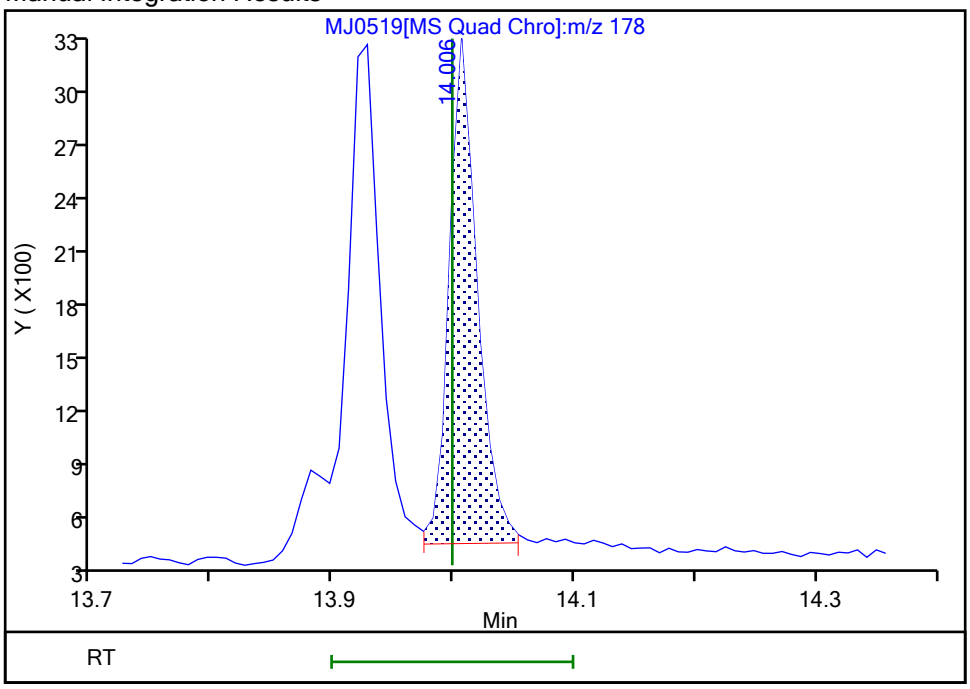
Processing Integration Results

RT: 14.01
Area: 6277
Amount: 0.008278
Amount Units: ug/ml



Manual Integration Results

RT: 14.01
Area: 4494
Amount: 0.005926
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:08:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

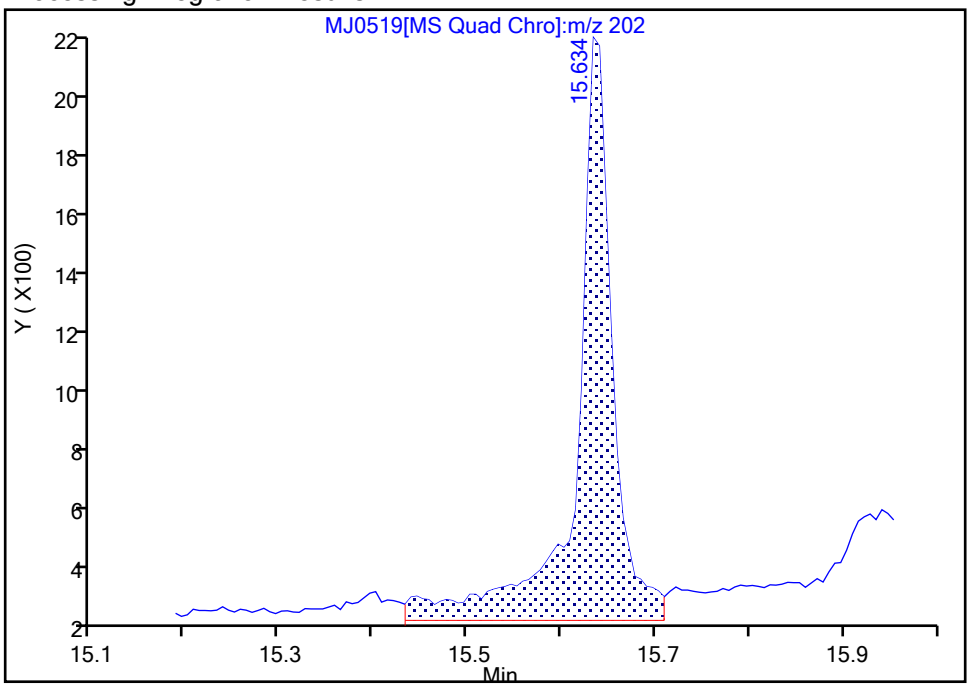
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Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

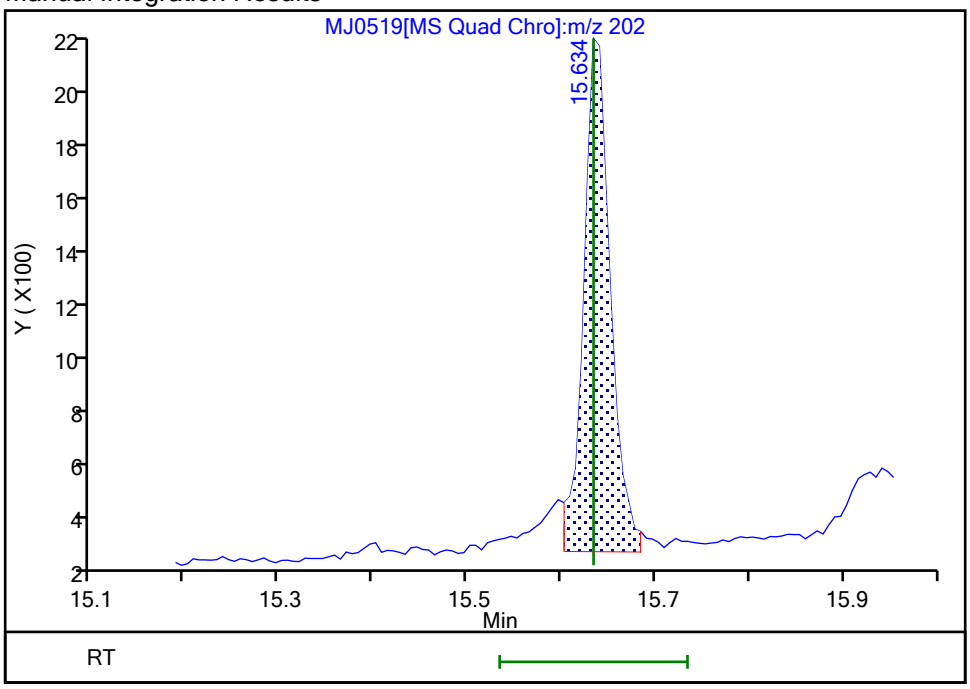
Processing Integration Results

RT: 15.63
Area: 5108
Amount: 0.005844
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 3572
Amount: 0.004086
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:08:30

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

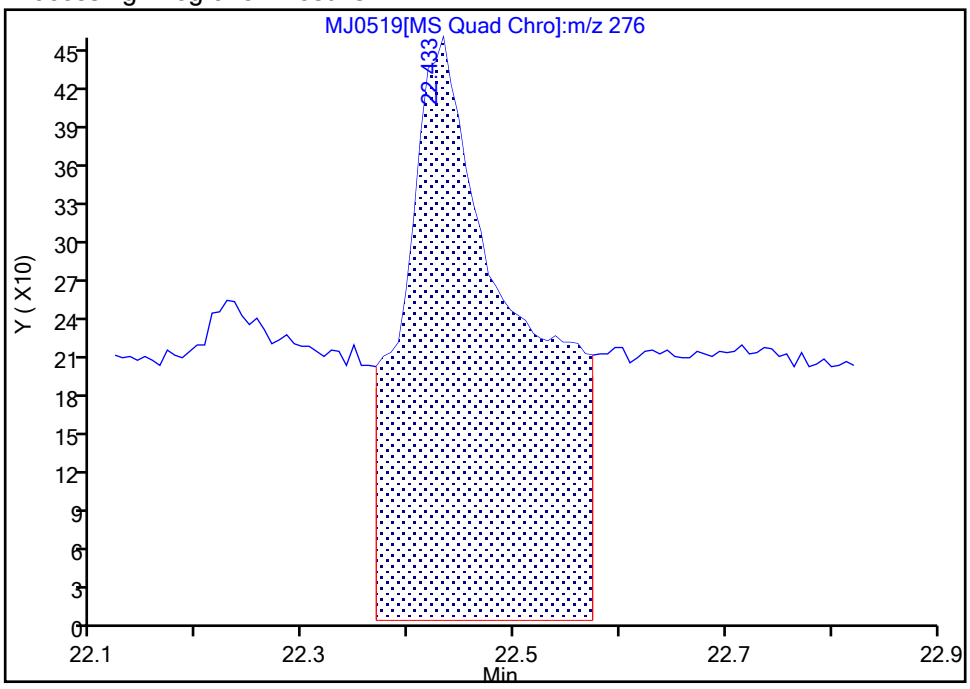
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Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

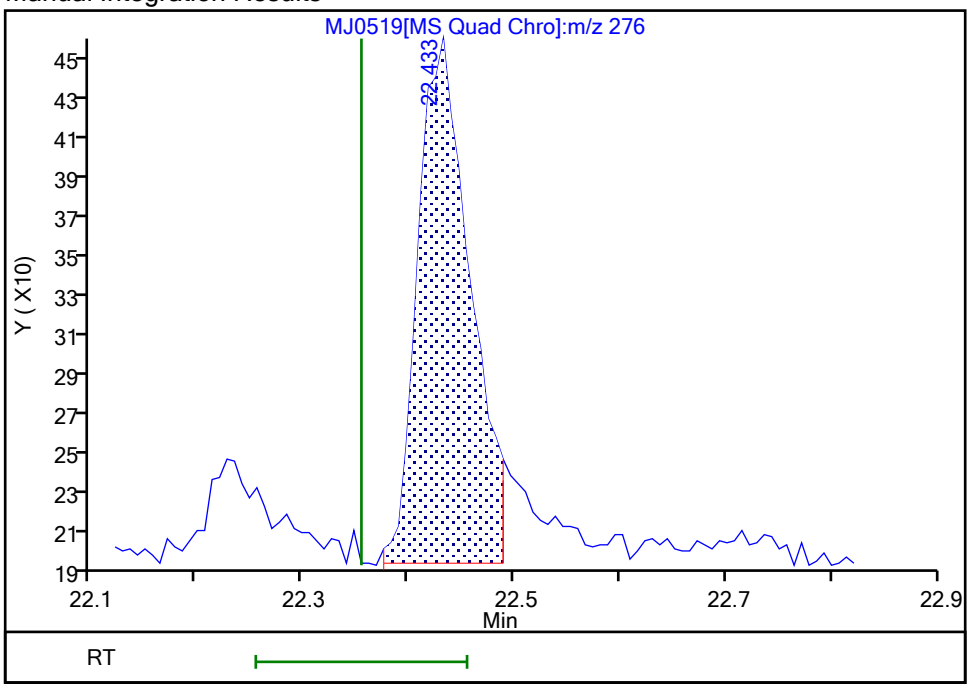
Processing Integration Results

RT: 22.43
Area: 3461
Amount: 0.004201
Amount Units: ug/ml



Manual Integration Results

RT: 22.43
Area: 876
Amount: 0.001063
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:08:54

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

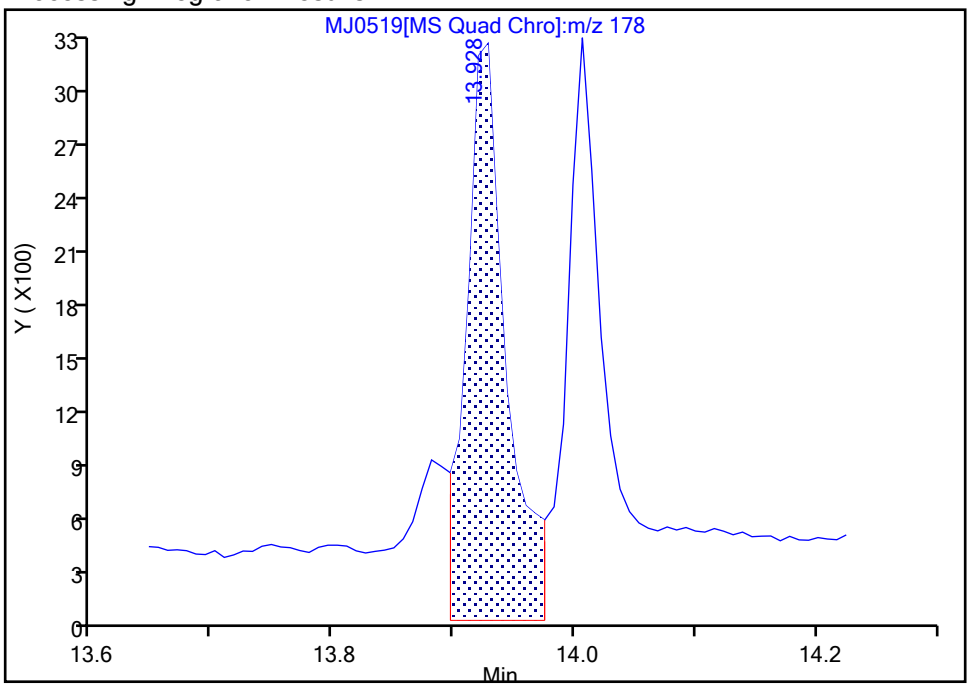
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Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

Signal: 1

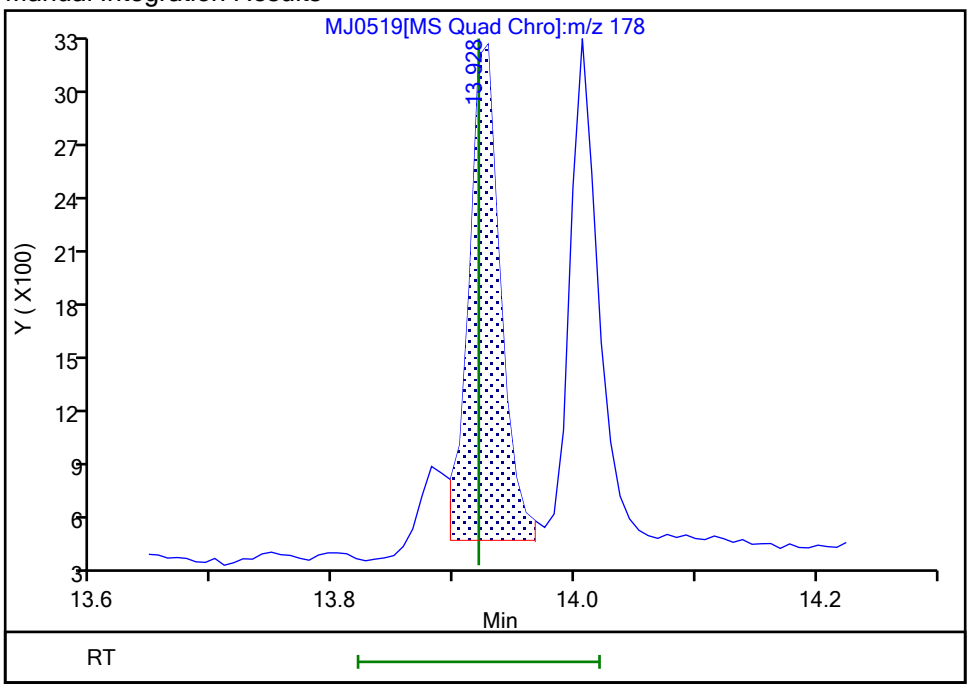
Processing Integration Results

RT: 13.93
Area: 7358
Amount: 0.008879
Amount Units: ug/ml



Manual Integration Results

RT: 13.93
Area: 4997
Amount: 0.006030
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:08:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

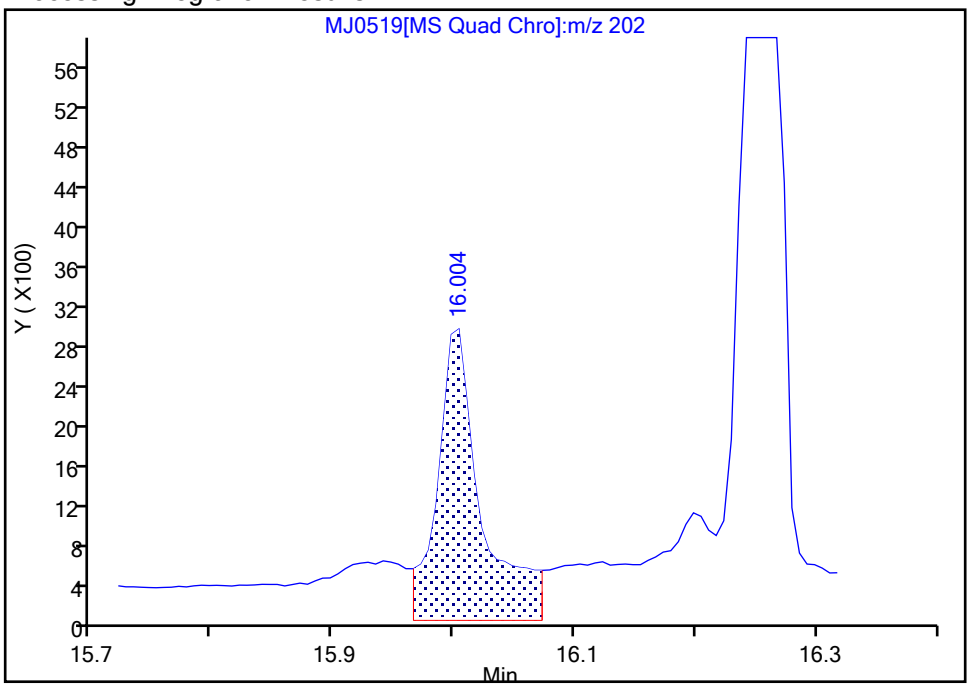
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Injection Date:	07-Oct-2021 20:06:04	Instrument ID:	HP21585		
Lims ID:	410-57303-A-6-A	Lab Sample ID:	410-57303-6		
Client ID:	MW-7S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

Signal: 1

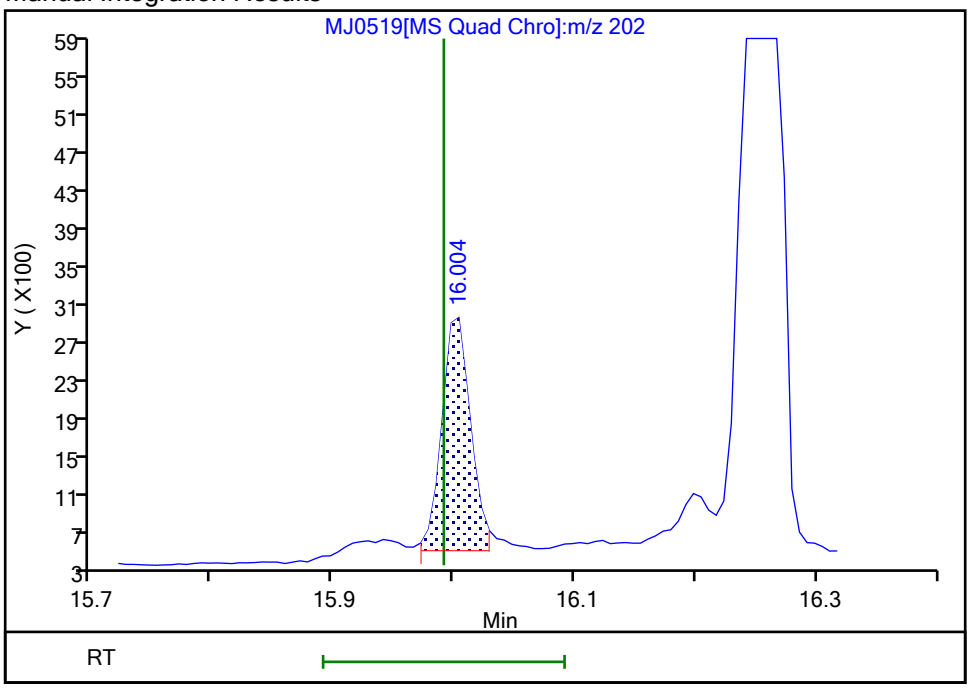
Processing Integration Results

RT: 16.00
Area: 7281
Amount: 0.005989
Amount Units: ug/ml



Manual Integration Results

RT: 16.00
Area: 3993
Amount: 0.003284
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 04:08:38

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-7D-20210929 Lab Sample ID: 410-57303-7

Matrix: Ground Water Lab File ID: MJ0580.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 09:26

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 233.9(mL) Date Analyzed: 10/08/2021 13:22

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.: 180407 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		0.075	0.032
85-01-8	Phenanthrene	ND		0.075	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)	80		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
93951-69-0	Fluoranthene-d10 (Surr)	97		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0580.D				
Lims ID:	410-57303-A-7-A				
Client ID:	MW-7D-20210929				
Sample Type:	Client				
Inject. Date:	08-Oct-2021 13:22:17	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-57303-A-7-A				
Misc. Info.:	410-0041033-055				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	09-Oct-2021 23:55:53	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1679				
First Level Reviewer: saadehw		Date:	09-Oct-2021 23:50:47		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	100	63939	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	219829	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.450	10.473	0.000	100	80173	0.1884	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	93	108948	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	97	183252	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	176522	0.2432	
* 29 Chrysene-d12	240	18.048	18.040	0.008	55	178327	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	99	131289	0.2007	
* 38 Perylene-d12	264	20.556	20.548	0.008	100	183894	0.2500	

QC Flag Legend

Processing Flags

Reagents:

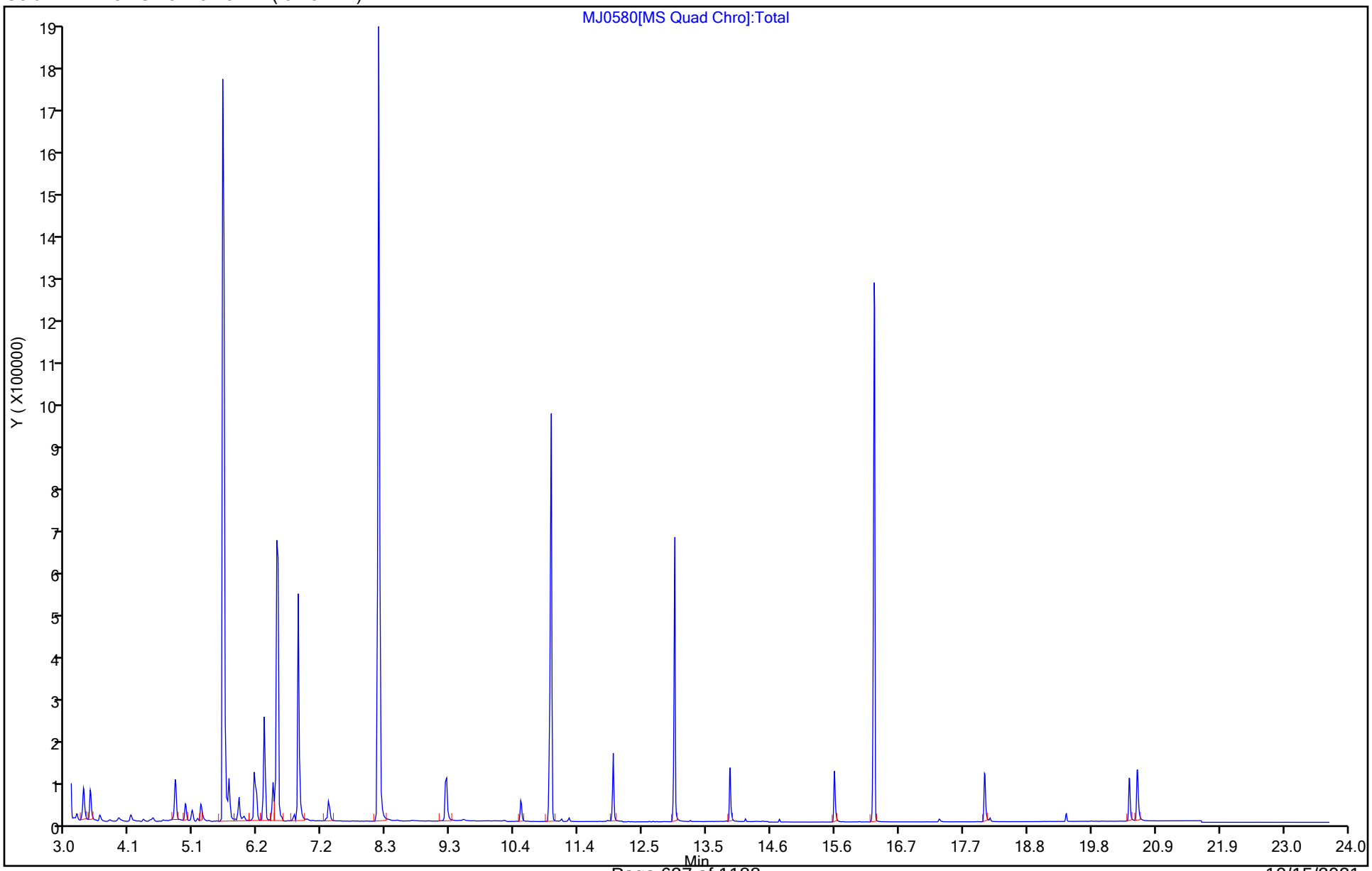
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Oct-2021 23:55:54 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0580.D				
Injection Date:	08-Oct-2021 13:22:17	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-7-A	Lab Sample ID:	410-57303-7	Worklist Smp#:	55
Client ID:	MW-7D-20210929				
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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-14S-20210929 Lab Sample ID: 410-57303-8

Matrix: Ground Water Lab File ID: MJ0581.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 10:12

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 247.1(mL) Date Analyzed: 10/08/2021 13:51

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.: 180407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.083		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	0.012	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	0.16	B	0.071	0.030
85-01-8	Phenanthrene	ND		0.071	0.030
129-00-0	Pyrene	0.022	J	0.051	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)	78		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\HP21585\20211008-41033.b\MJ0581.D
Lims ID: 410-57303-A-8-A
Client ID: MW-14S-20210929
Sample Type: Client
Inject. Date: 08-Oct-2021 13:51:56 ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-8-A
Misc. Info.: 410-0041033-056
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:55:53 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 23:51:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	99	58298	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	93	198290	0.2500	
6 Naphthalene	128	9.258	9.257	0.000	94	37023	0.0402	
$ 9 1-Methylnaphthalene-d10	152	10.450	10.473	0.000	100	74759	0.1948	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	92	98164	0.2500	
14 Acenaphthene	154	12.015	12.003	0.012	94	10238	0.0205	
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	95	165158	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	169911	0.2598	
25 Fluoranthene	202	15.622	15.622	0.007	99	2653	0.002937	
26 Pyrene	202	15.991	15.986	0.018	100	5826	0.005377	
* 29 Chrysene-d12	240	18.048	18.040	0.008	59	163170	0.2500	
33 Benzo[b]fluoranthene	252	19.965	19.965	0.054	92	604	0.000624	7Ma
34 Benzo[k]fluoranthene	252	20.019	19.988	0.062	76	234	0.000226	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	100	125623	0.2069	
37 Benzo[a]pyrene	252	20.464	20.464	0.008	100	436	0.000483	7a
* 38 Perylene-d12	264	20.556	20.548	0.008	99	170655	0.2500	

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

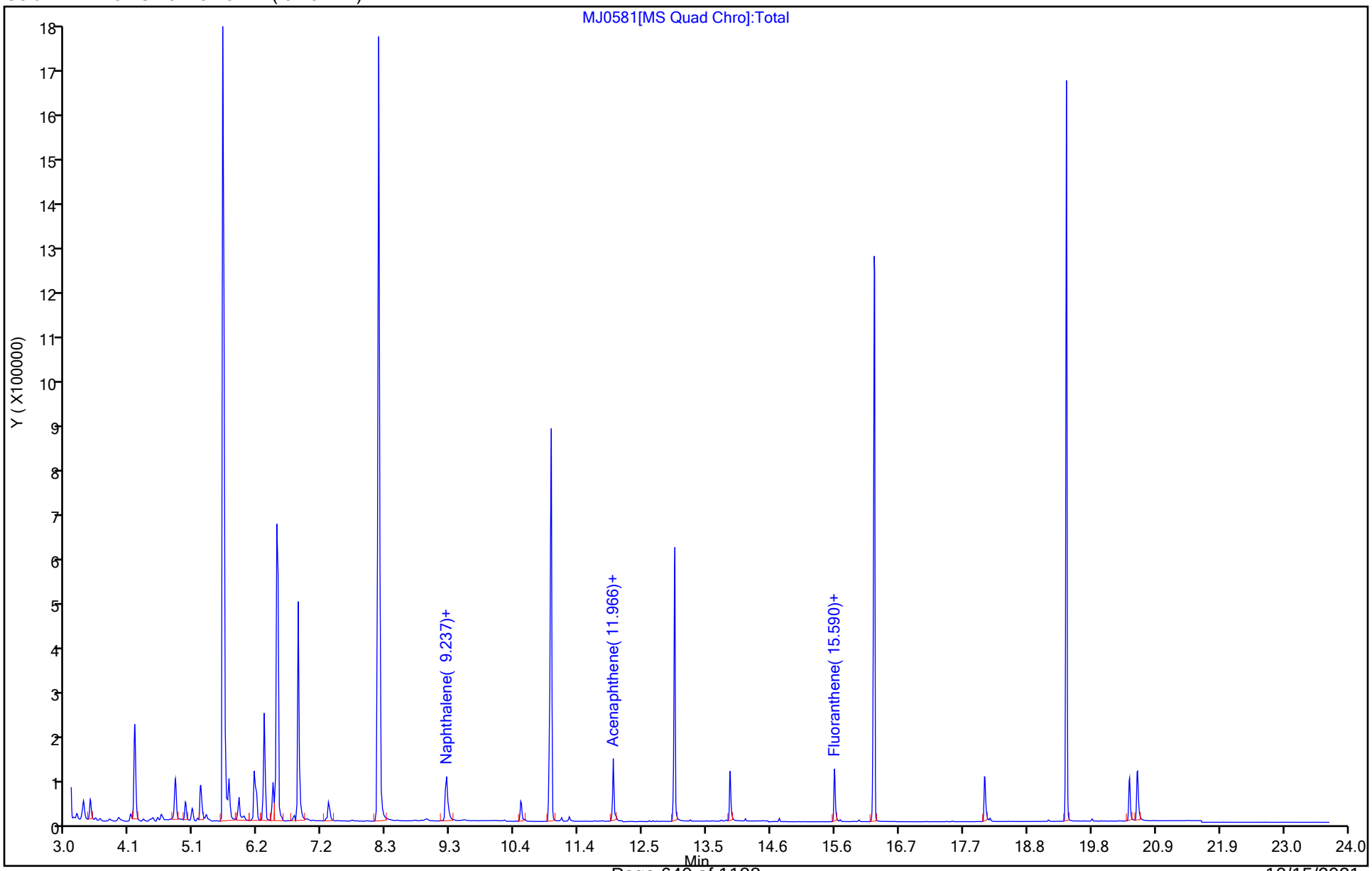
Report Date: 09-Oct-2021 23:55:54 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	08-Oct-2021 13:51:56	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8	Worklist Smp#:	56
Client ID:	MW-14S-20210929				
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)



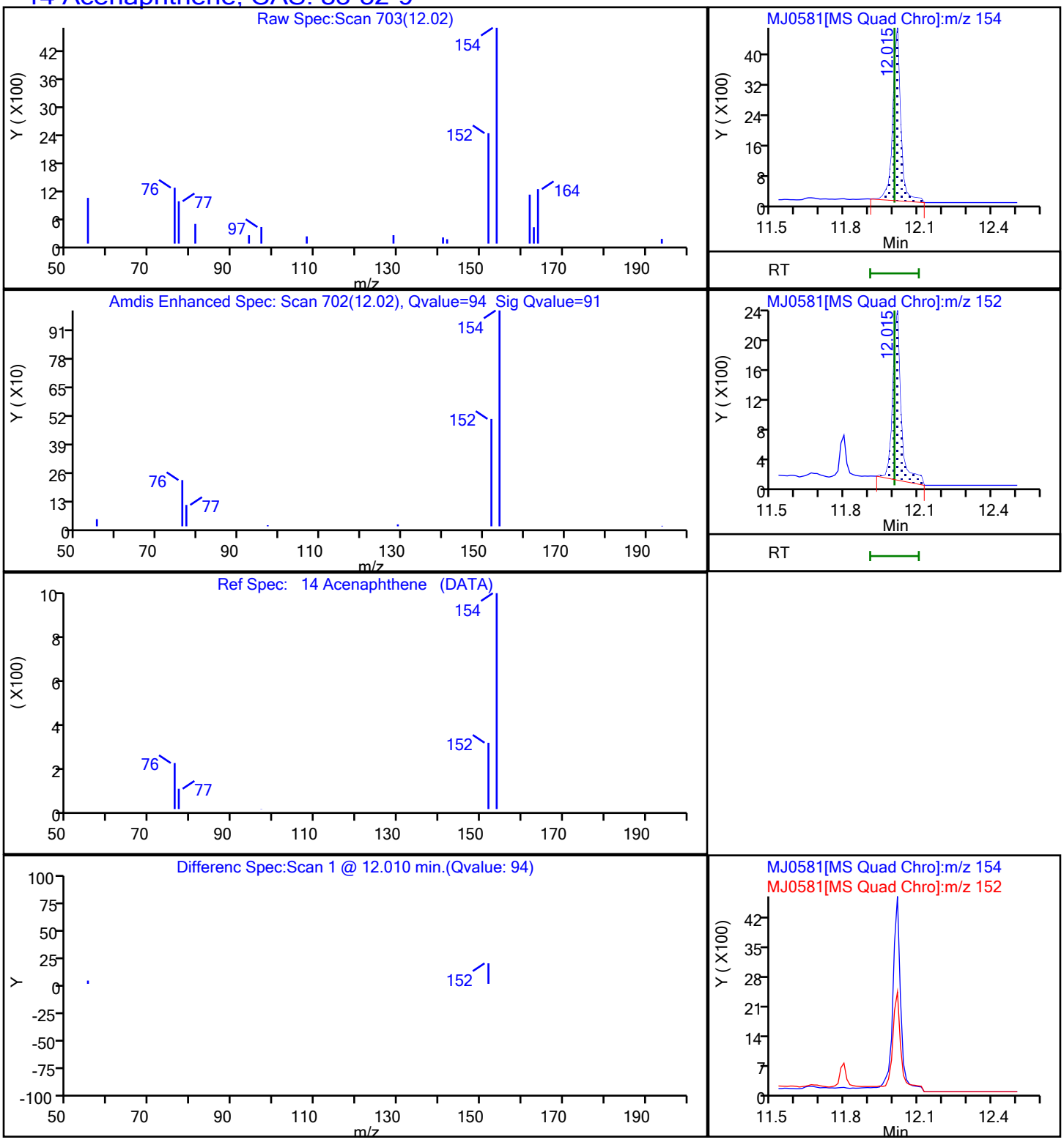
Report Date: 09-Oct-2021 23:55:54 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0581.D

Injection Date:	08-Oct-2021 13:51:56	Instrument ID:	HP21585		
Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
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



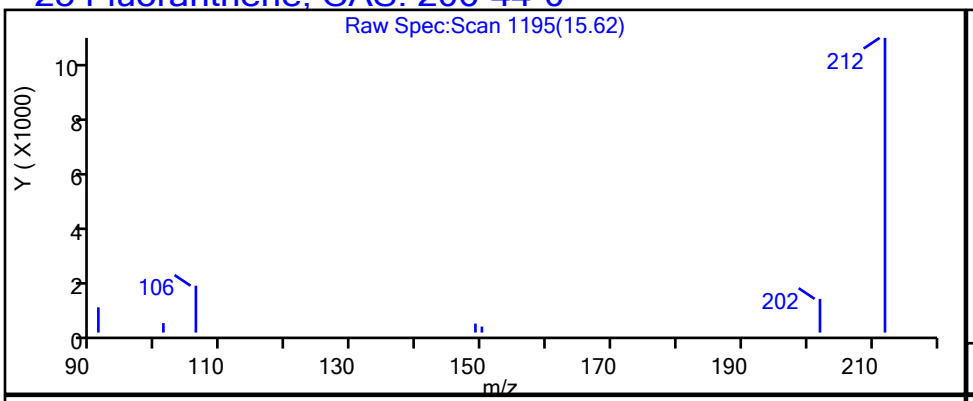
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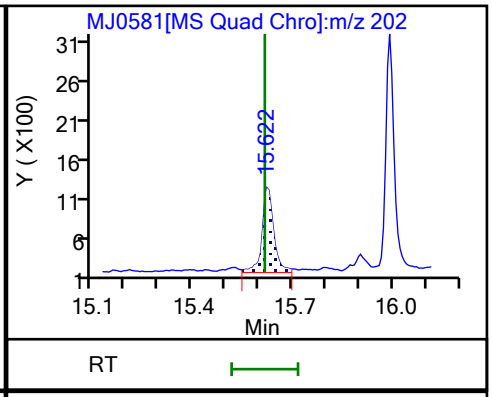
Eurofins Lancaster Laboratories Env, LLC

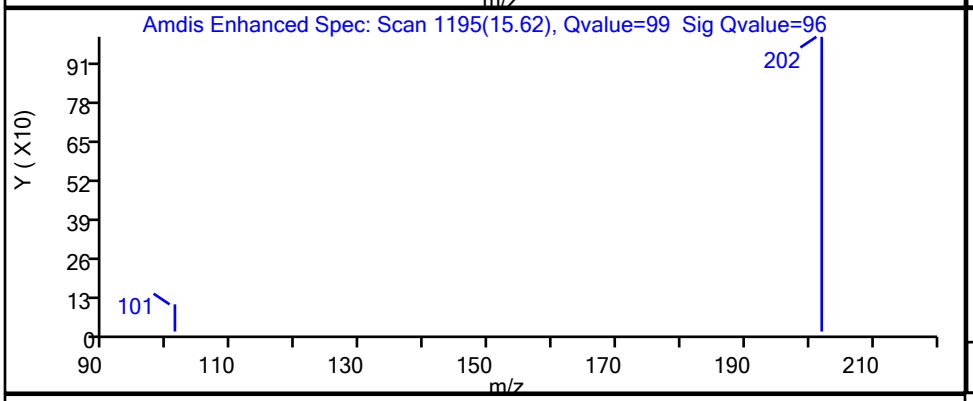
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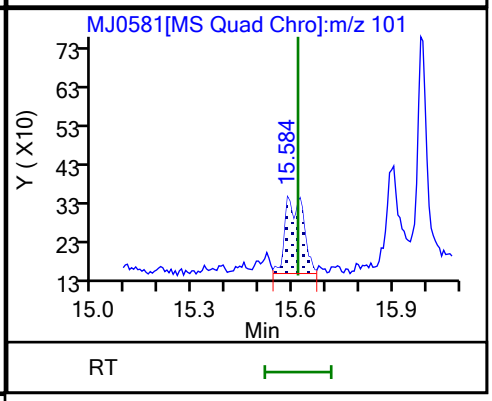
Injection Date:	08-Oct-2021 13:51:56	Instrument ID:	HP21585		
Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

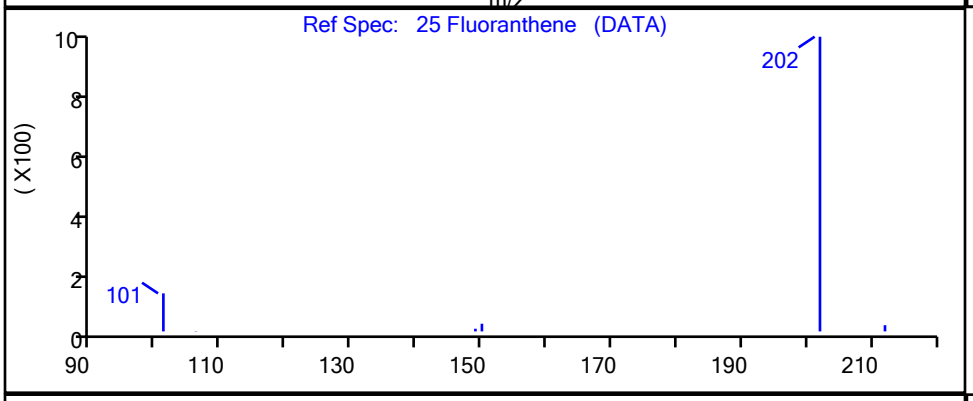
25 Fluoranthene, CAS: 206-44-0

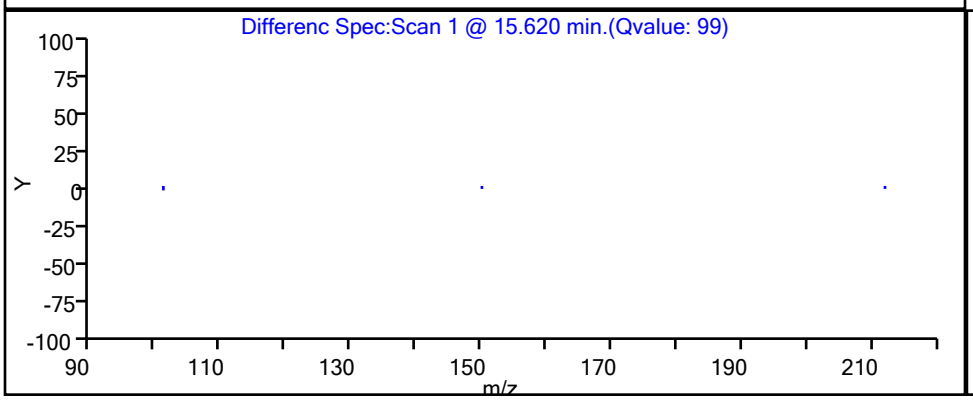


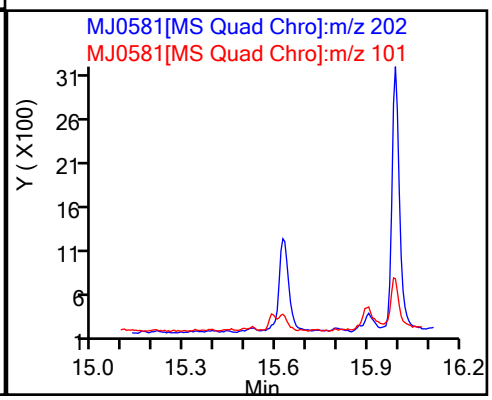












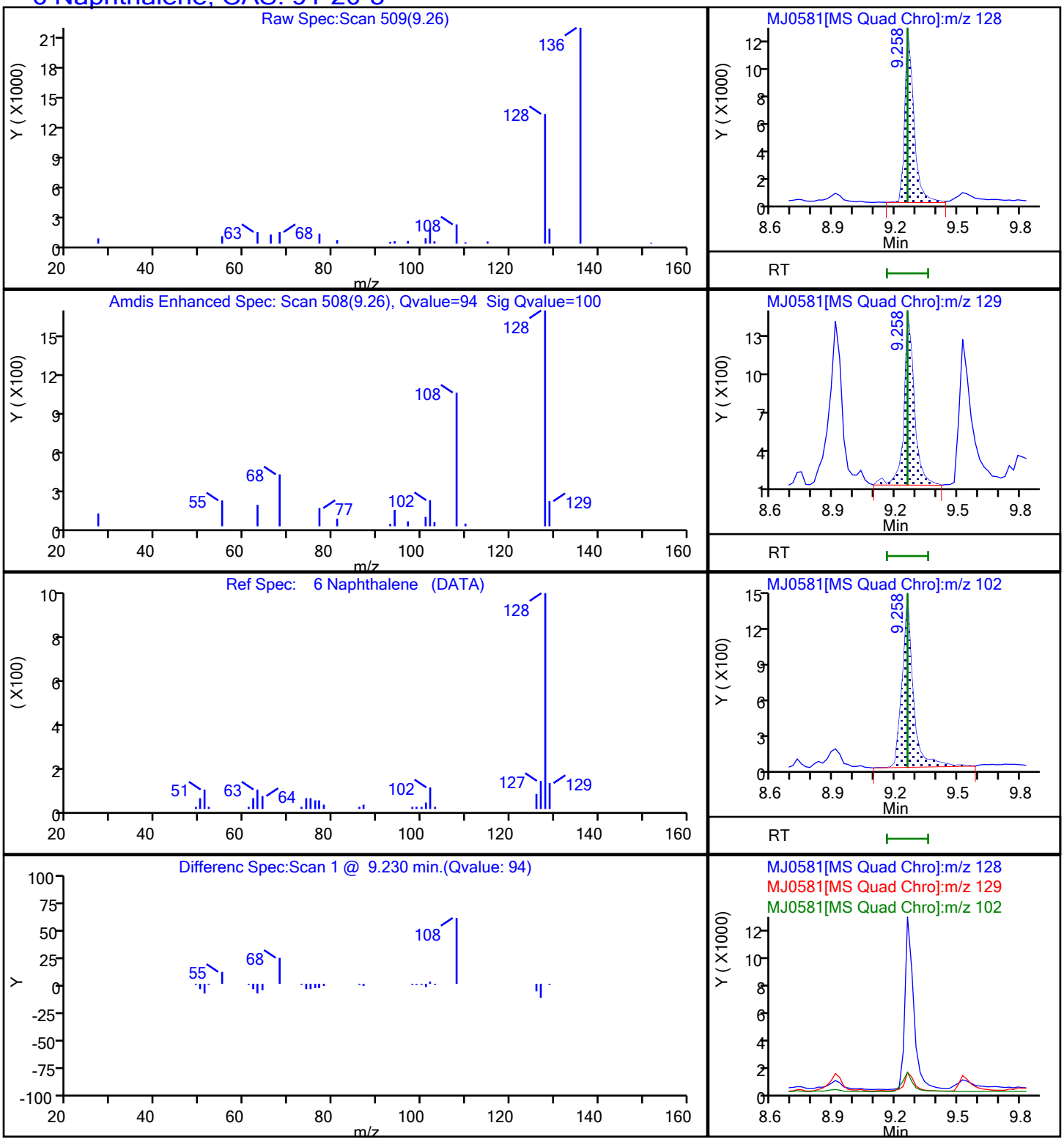
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0581.D

Injection Date:	08-Oct-2021 13:51:56	Instrument ID:	HP21585		
Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
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



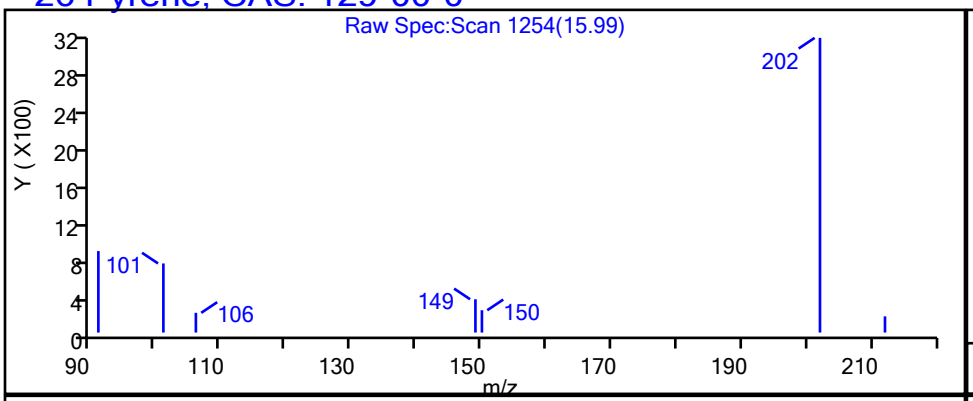
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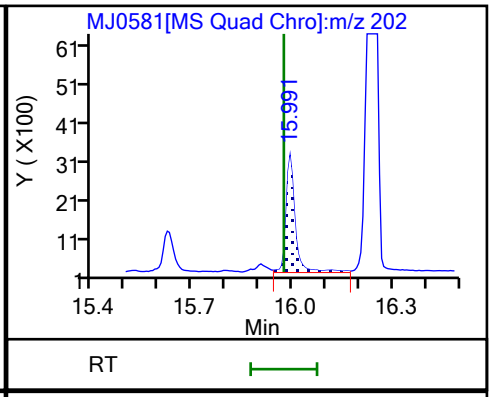
Eurofins Lancaster Laboratories Env, LLC

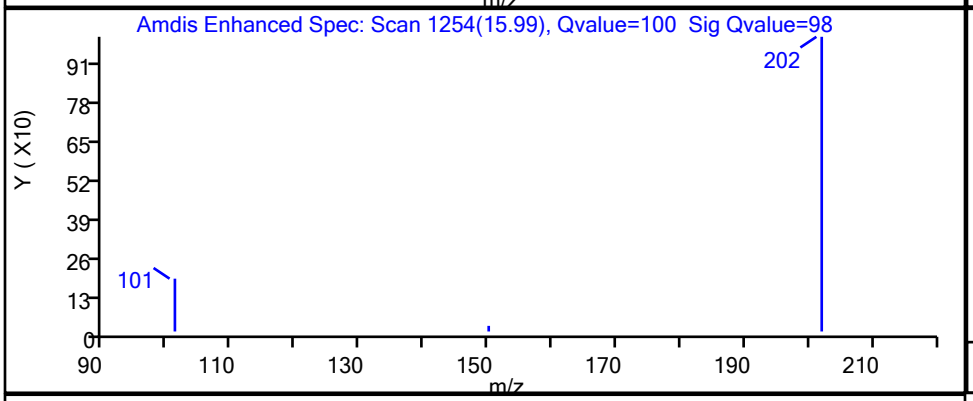
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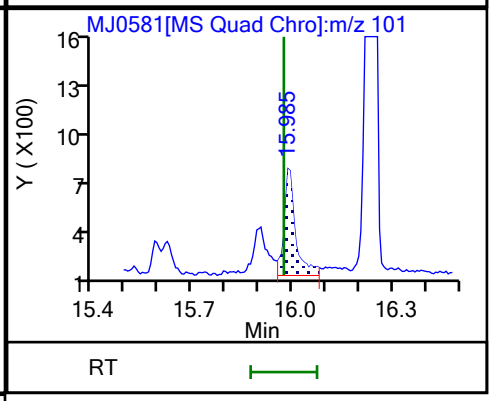
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Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

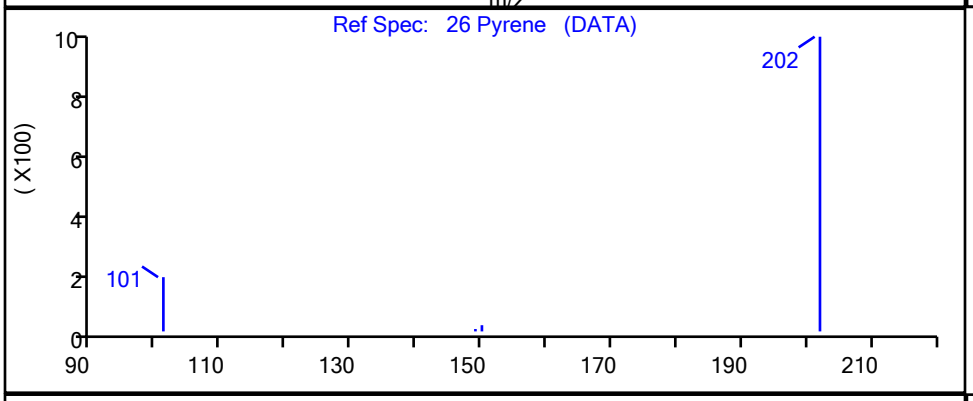
26 Pyrene, CAS: 129-00-0

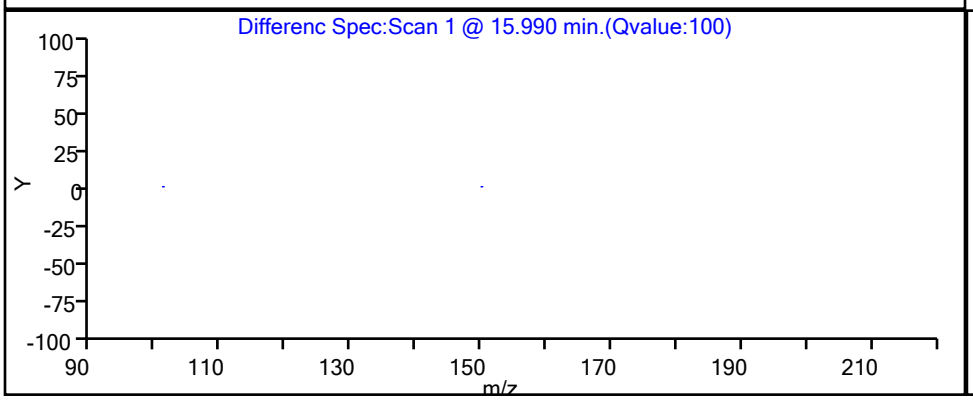


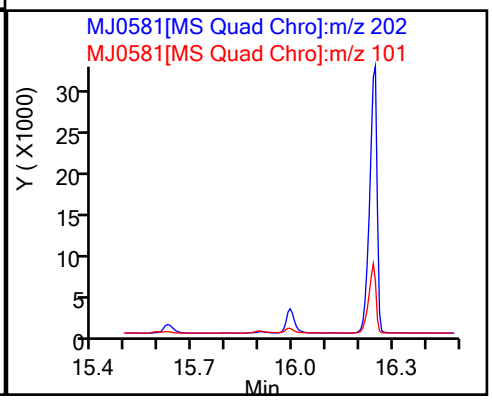












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

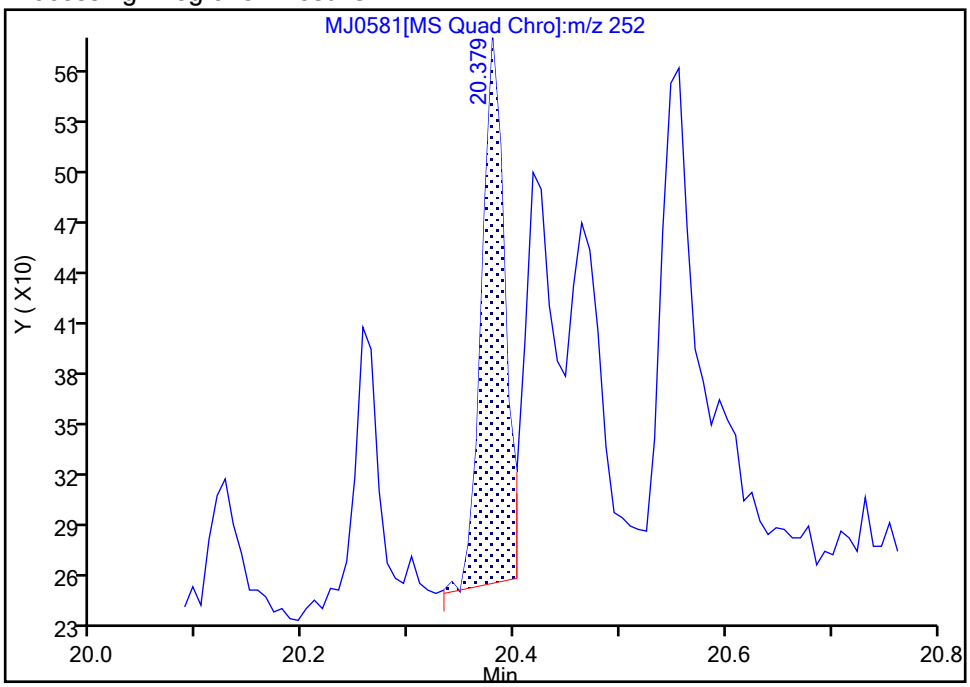
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Injection Date:	08-Oct-2021 13:51:56	Instrument ID:	HP21585		
Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

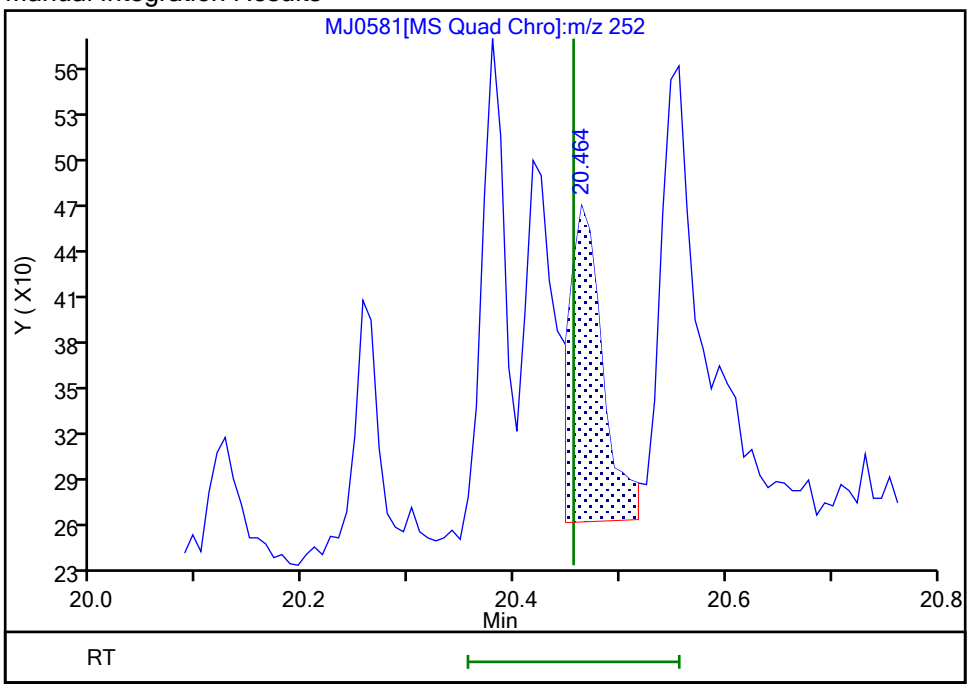
Processing Integration Results

RT: 20.38
Area: 487
Amount: 0.000540
Amount Units: ug/ml



Manual Integration Results

RT: 20.46
Area: 436
Amount: 0.000483
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:51:17
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

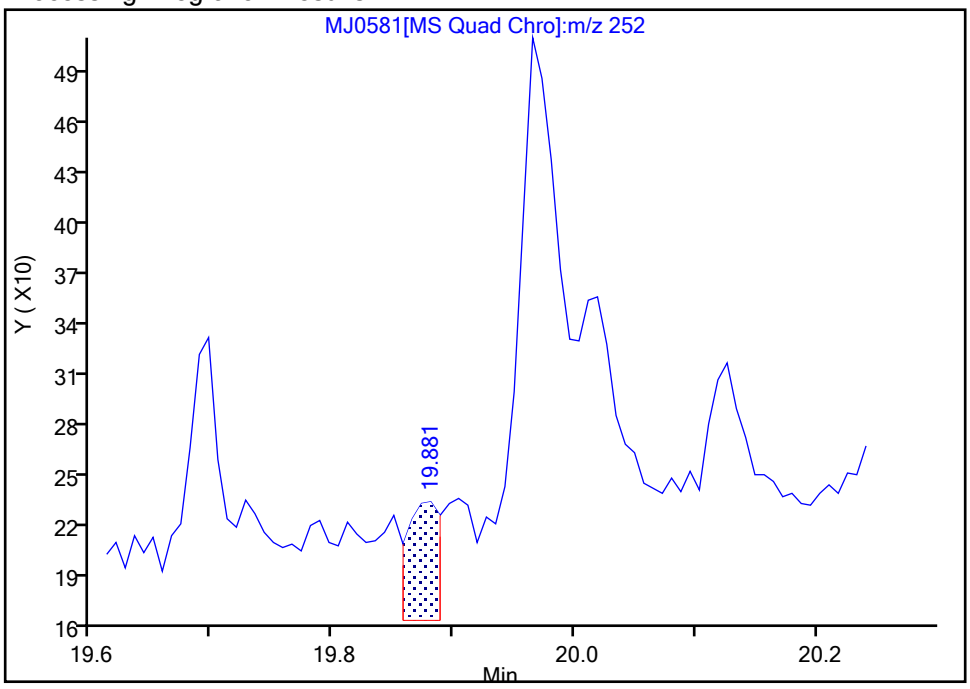
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Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

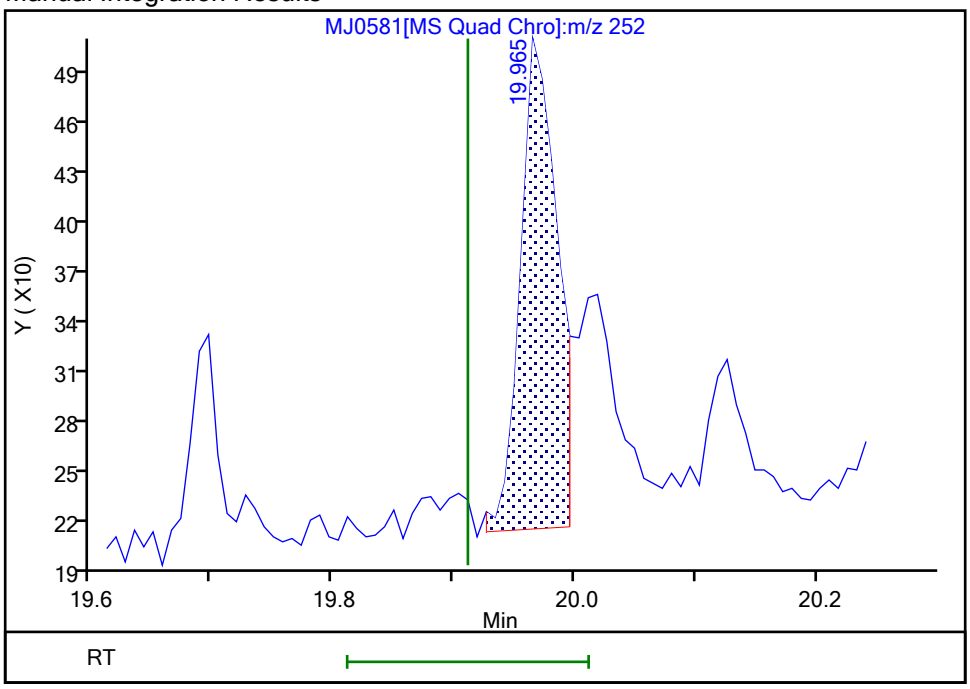
Processing Integration Results

RT: 19.88
Area: 116
Amount: 0.000120
Amount Units: ug/ml



Manual Integration Results

RT: 19.96
Area: 604
Amount: 0.000624
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:51:10

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

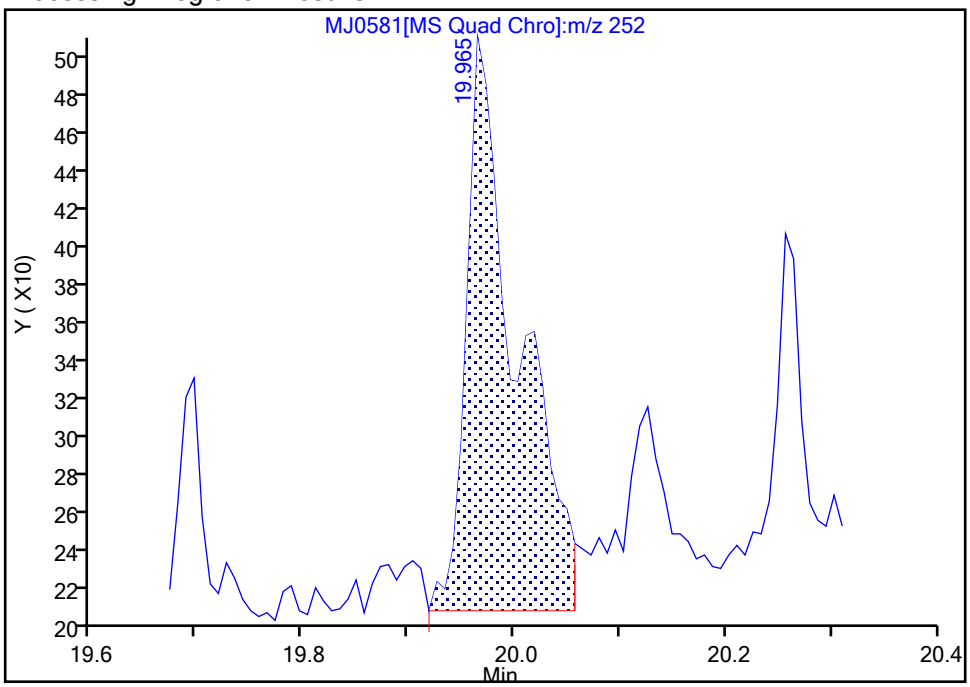
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0581.D				
Injection Date:	08-Oct-2021 13:51:56	Instrument ID:	HP21585		
Lims ID:	410-57303-A-8-A	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	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

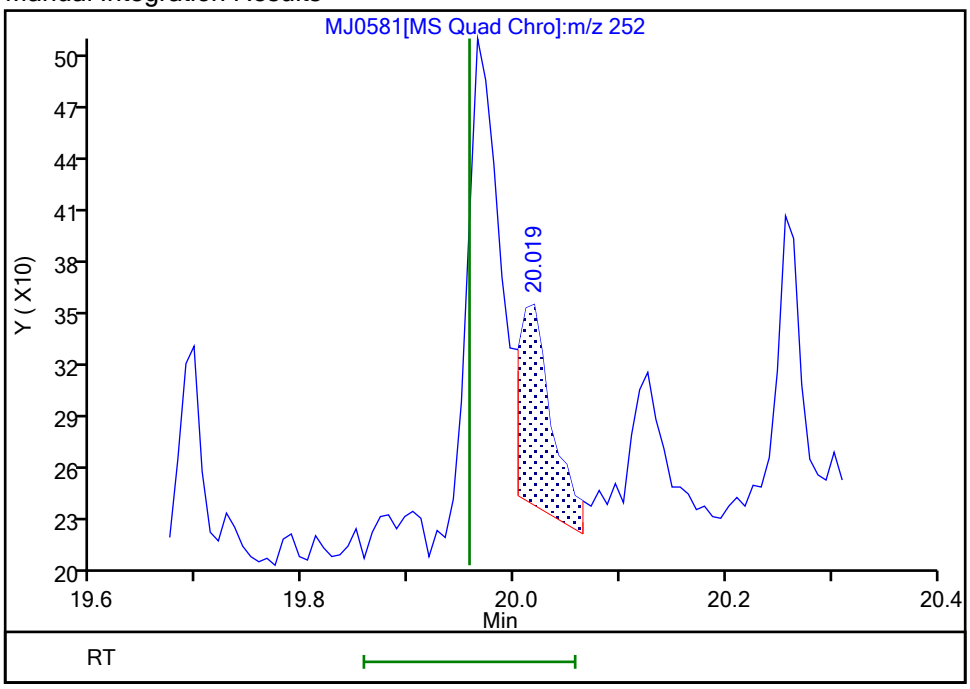
Processing Integration Results

RT: 19.96
Area: 988
Amount: 0.000956
Amount Units: ug/ml



Manual Integration Results

RT: 20.02
Area: 234
Amount: 0.000226
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:51:13

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-14S-20210929 RE Lab Sample ID: 410-57303-8 RE

Matrix: Ground Water Lab File ID: MJ0720.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 10:12

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 242.2(mL) Date Analyzed: 10/12/2021 13:00

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.: 181586 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.068*	*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*	*ND*	*H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*	*H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*	*H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*ND*	*H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*ND*	*H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.011*	*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*	*0.017*	*J H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
93951-69-0	Fluoranthene-d10 (Surr)	96		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0720.D
Lims ID: 410-57303-B-8-A RE
Client ID: MW-14S-20210929
Sample Type: Client
Inject. Date: 12-Oct-2021 13:00:12 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-8-A
Misc. Info.: 410-0041301-011
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:21:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	100	65373	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	93	238174	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	86754	0.1882	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	94	119590	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	89	10065	0.0165	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	95	199778	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.597	15.605	0.000	100	190583	0.2409	
25 Fluoranthene	202	15.634	15.628	0.006	97	2848	0.002607	
26 Pyrene	202	15.998	15.979	0.013	100	4830	0.004003	M
* 29 Chrysene-d12	240	18.055	18.055	0.000	55	181721	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.433	0.008	100	146961	0.2114	
* 38 Perylene-d12	264	20.563	20.556	0.007	100	195460	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

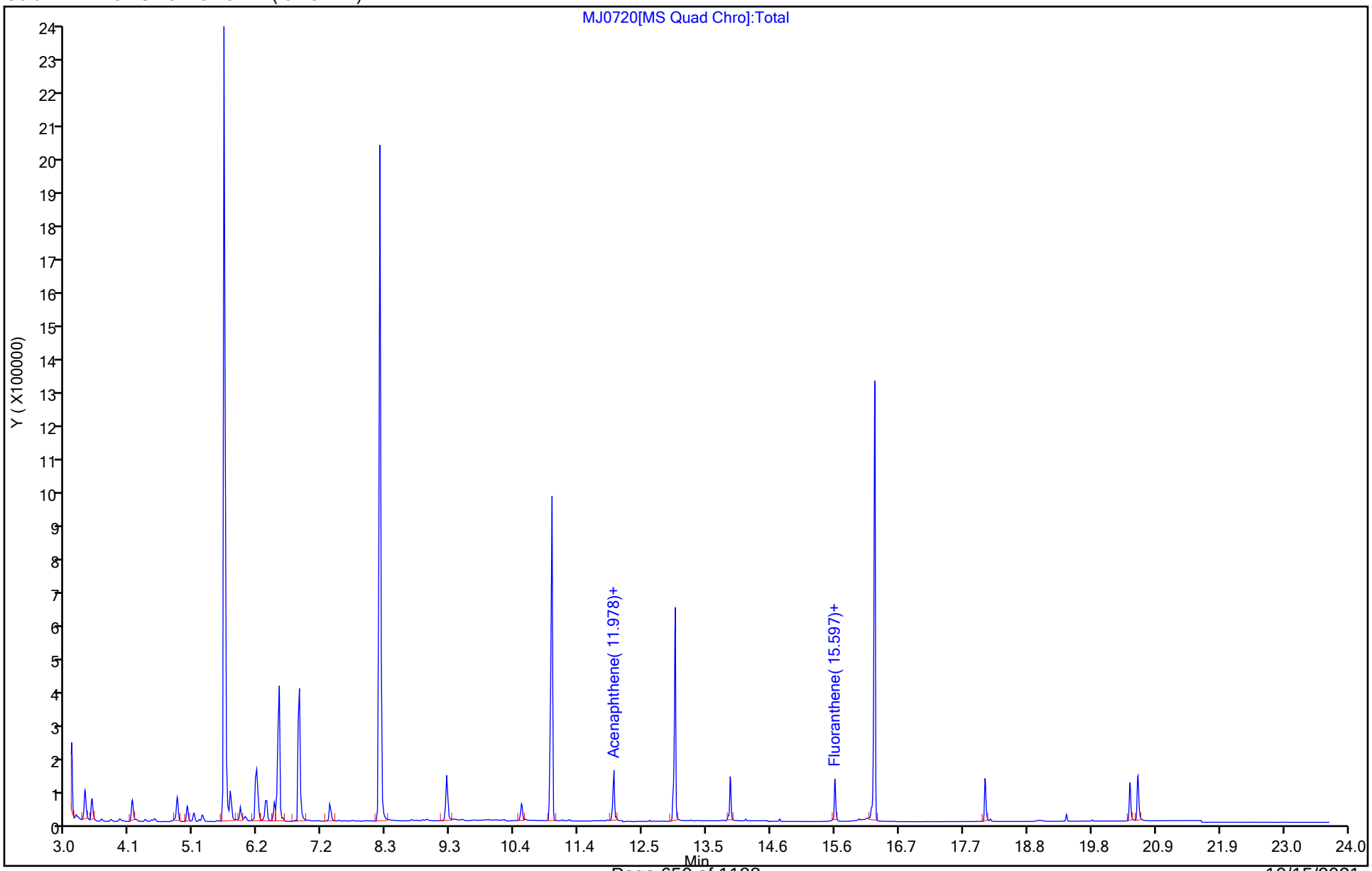
Report Date: 13-Oct-2021 08:30:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0720.D

Injection Date:	12-Oct-2021 13:00:12	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-8-A RE	Lab Sample ID:	410-57303-8	Worklist Smp#:	11
Client ID:	MW-14S-20210929				
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)



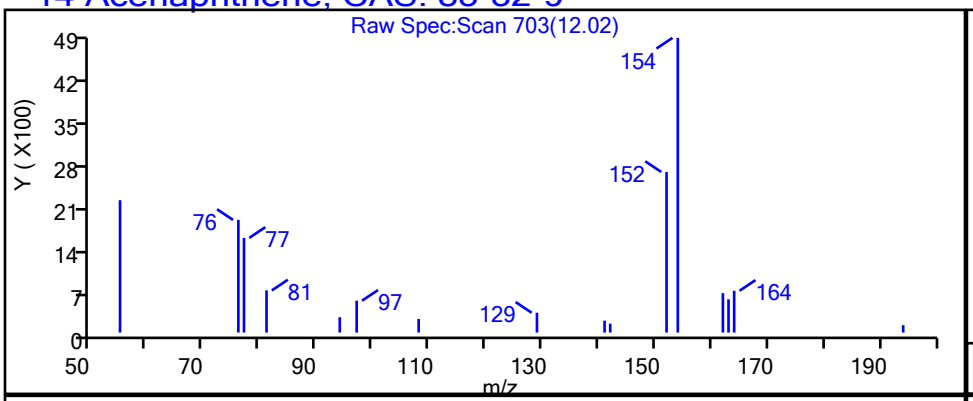
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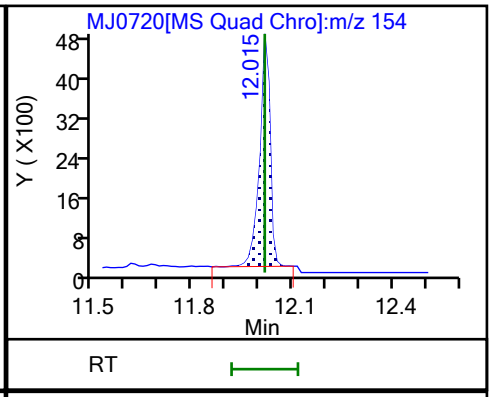
Eurofins Lancaster Laboratories Env, LLC

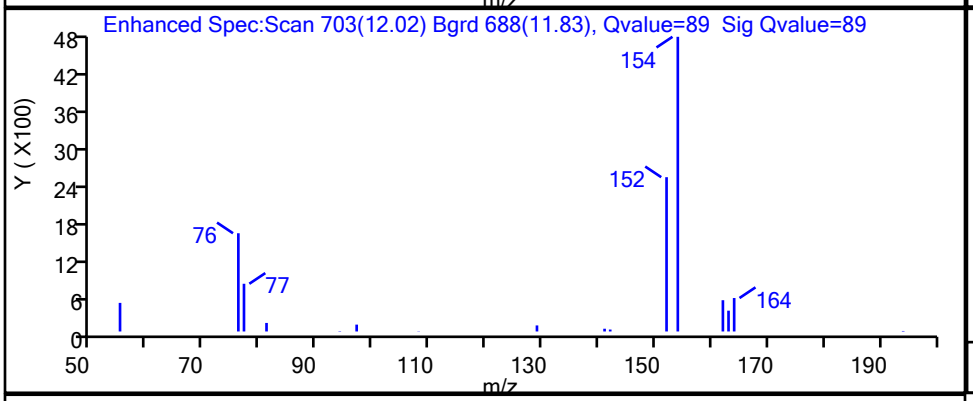
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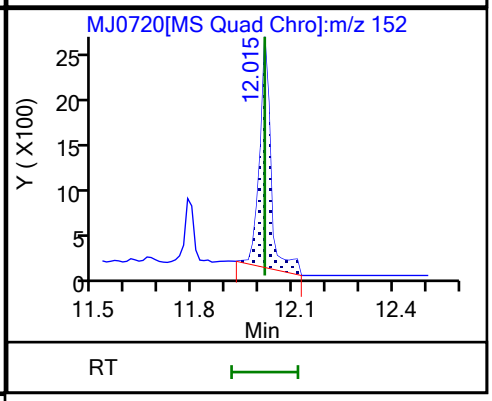
Injection Date:	12-Oct-2021 13:00:12	Instrument ID:	HP21585		
Lims ID:	410-57303-B-8-A RE	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

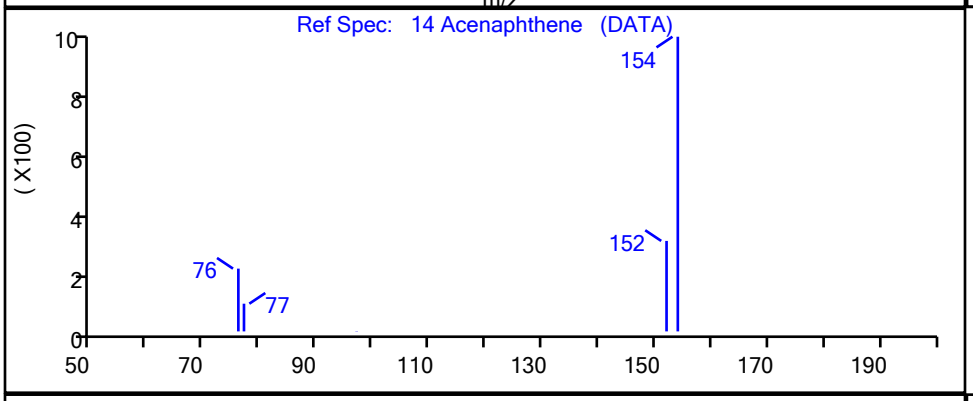
14 Acenaphthene, CAS: 83-32-9

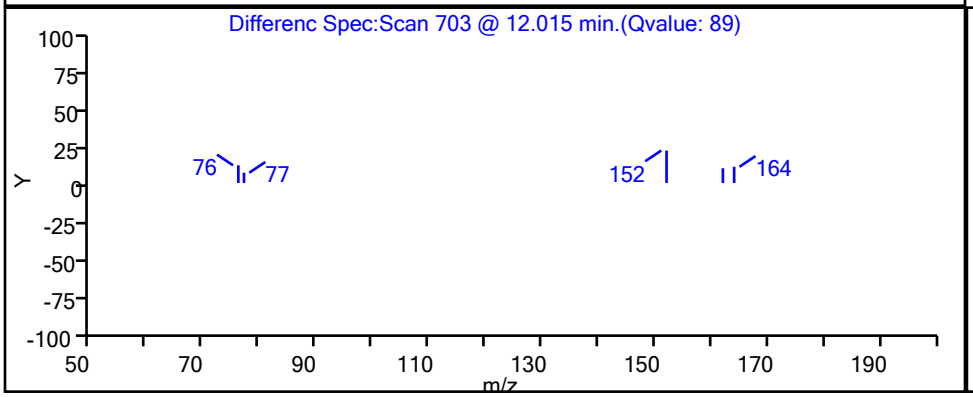


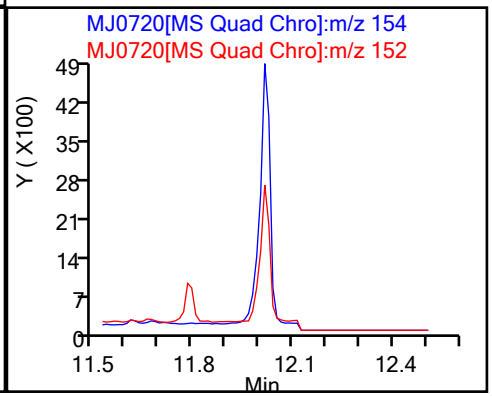












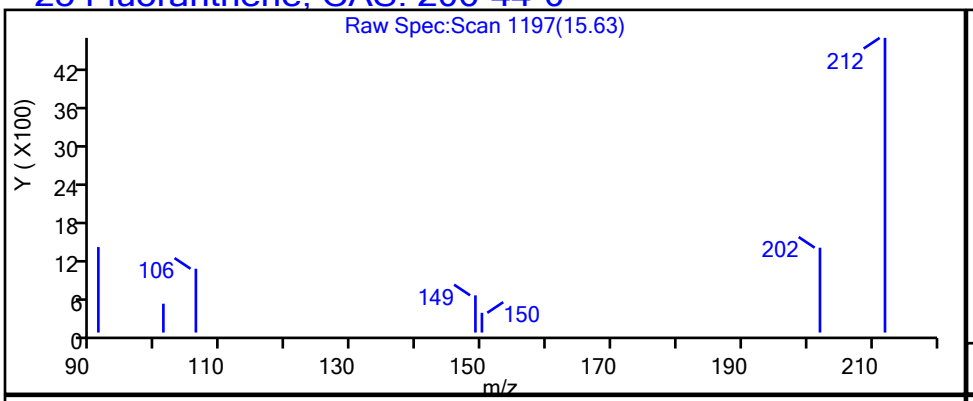
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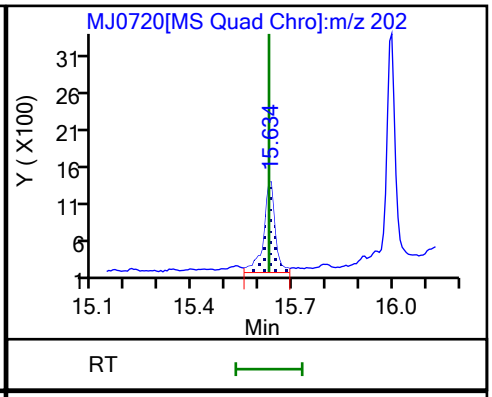
Eurofins Lancaster Laboratories Env, LLC

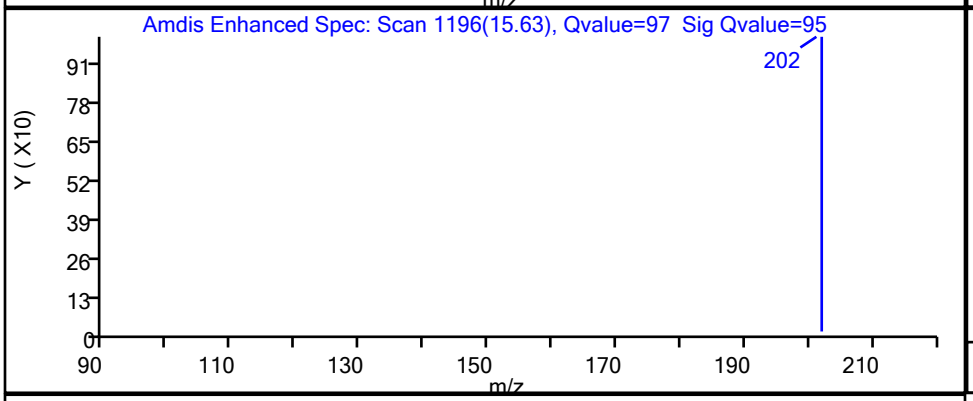
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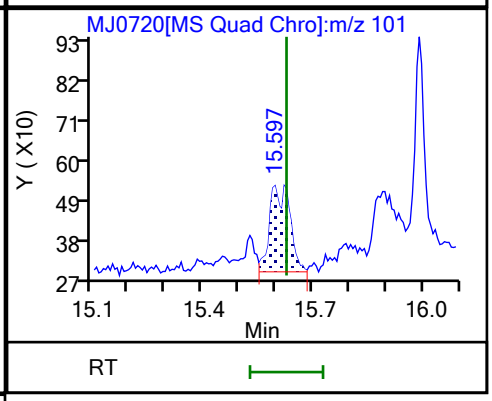
Injection Date:	12-Oct-2021 13:00:12	Instrument ID:	HP21585		
Lims ID:	410-57303-B-8-A RE	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

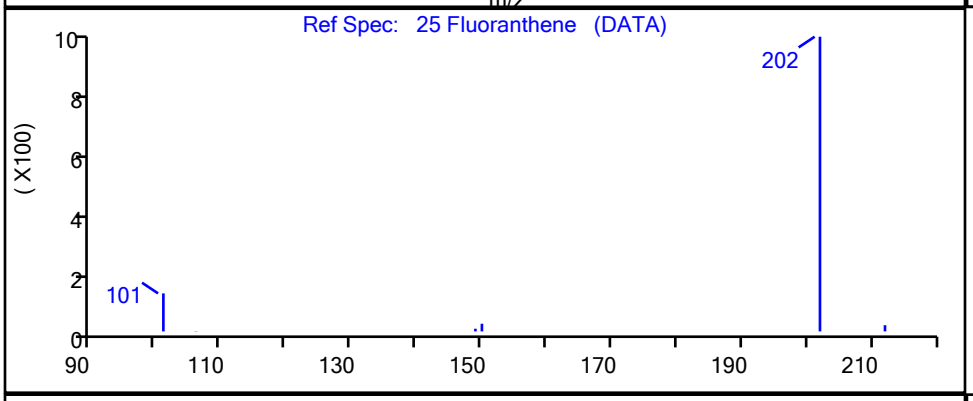
25 Fluoranthene, CAS: 206-44-0

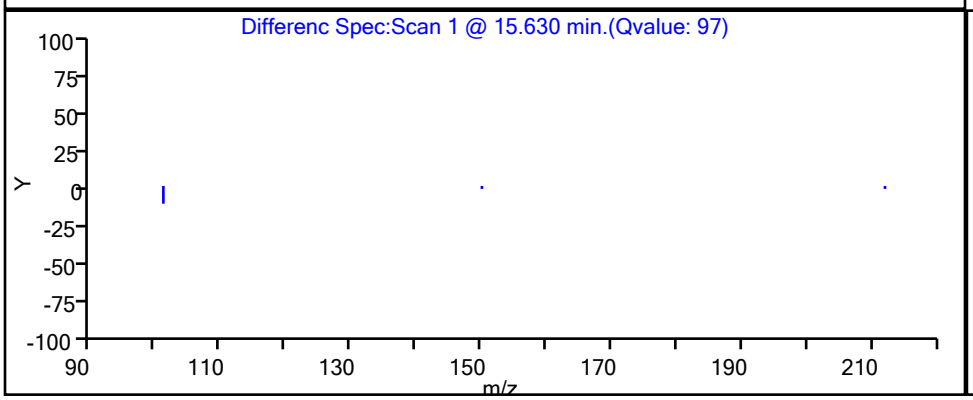


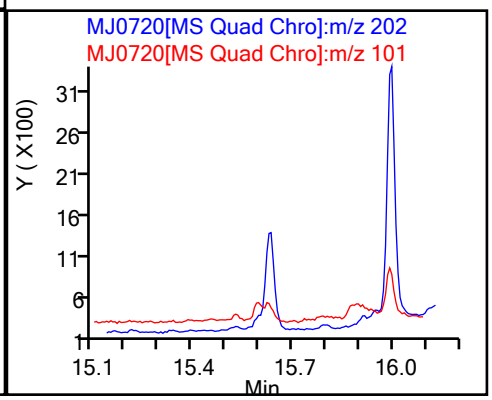












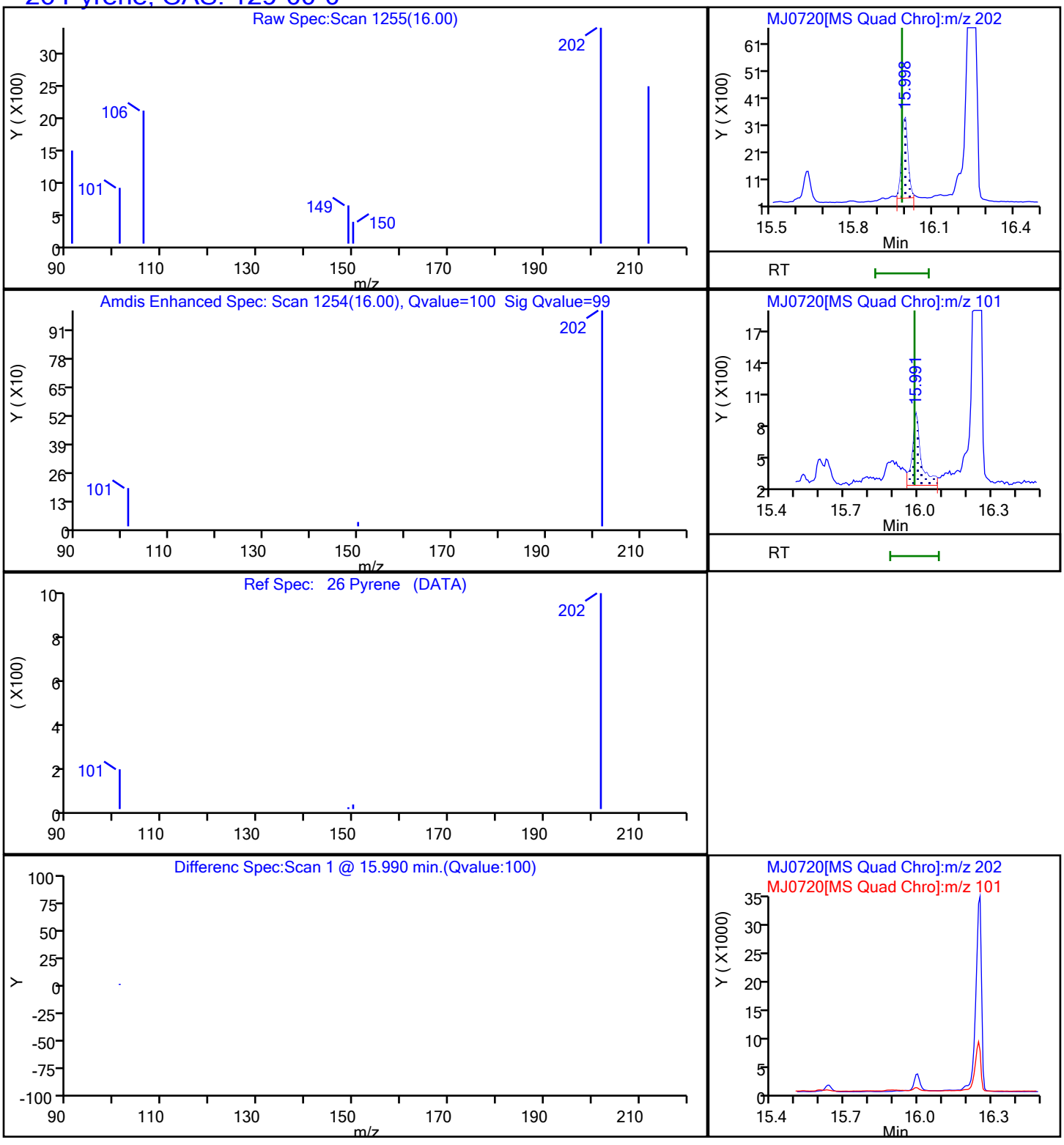
Report Date: 13-Oct-2021 08:30:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0720.D

Injection Date:	12-Oct-2021 13:00:12	Instrument ID:	HP21585		
Lims ID:	410-57303-B-8-A RE	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	11
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

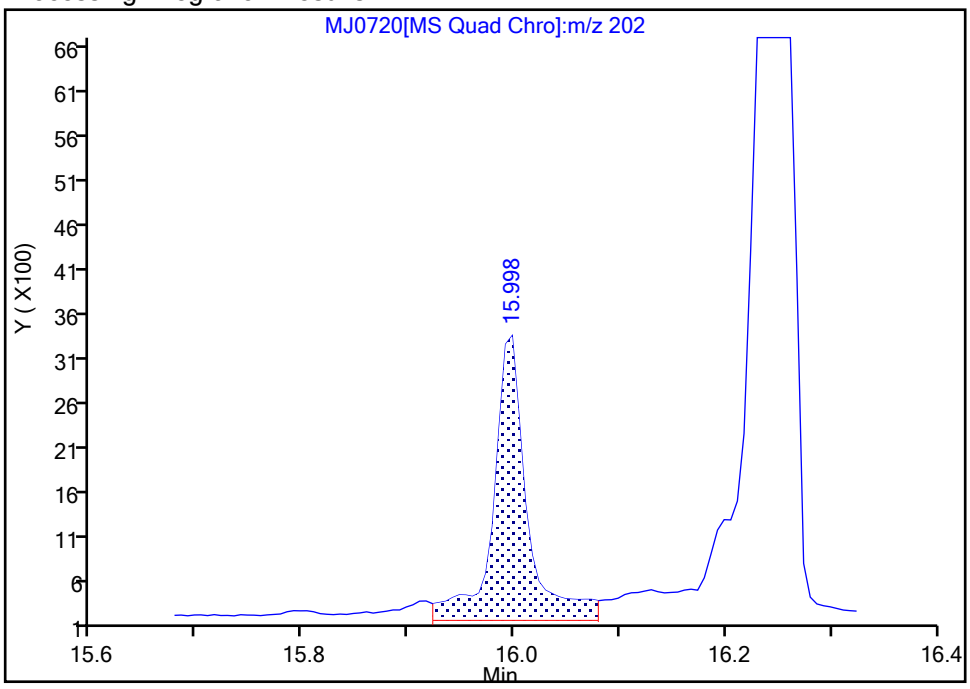
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Injection Date:	12-Oct-2021 13:00:12	Instrument ID:	HP21585		
Lims ID:	410-57303-B-8-A RE	Lab Sample ID:	410-57303-8		
Client ID:	MW-14S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

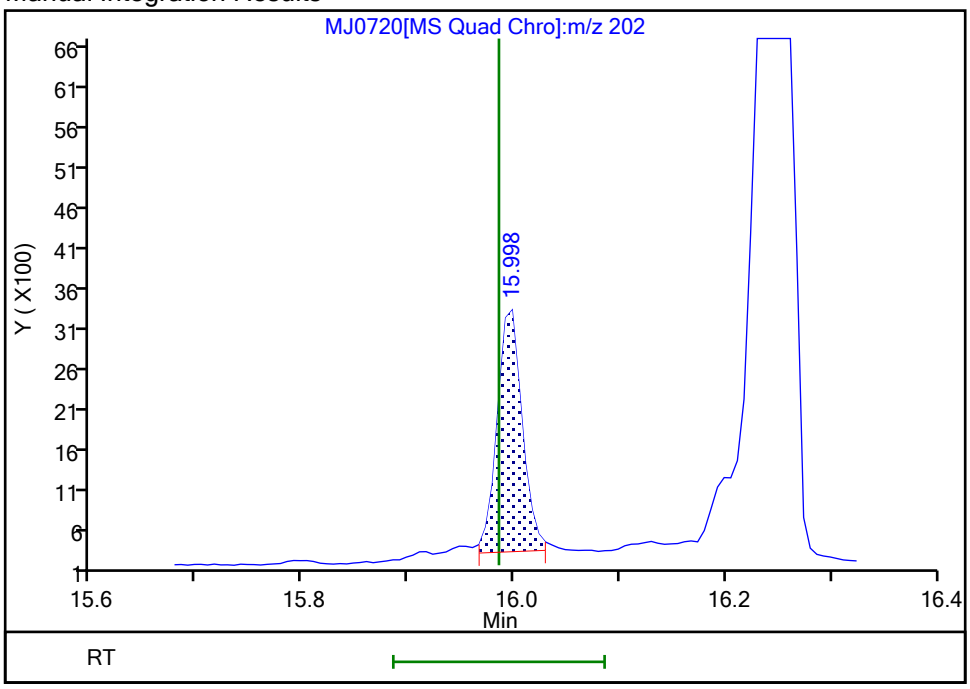
Processing Integration Results

RT: 16.00
Area: 7050
Amount: 0.005842
Amount Units: ug/ml



Manual Integration Results

RT: 16.00
Area: 4830
Amount: 0.004003
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:21:11

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-14D-20210929 Lab Sample ID: 410-57303-9

Matrix: Ground Water Lab File ID: MJ0582.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 11:09

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 225.9(mL) Date Analyzed: 10/08/2021 14:21

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.: 180407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.055	0.011
208-96-8	Acenaphthylene	ND		0.055	0.011
120-12-7	Anthracene	ND		0.055	0.011
56-55-3	Benzo[a]anthracene	ND		0.055	0.011
50-32-8	Benzo[a]pyrene	ND		0.055	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.055	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.055	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.055	0.011
218-01-9	Chrysene	ND		0.055	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.055	0.022
206-44-0	Fluoranthene	ND		0.055	0.011
86-73-7	Fluorene	ND		0.055	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.055	0.022
91-20-3	Naphthalene	ND		0.077	0.033
85-01-8	Phenanthrene	ND		0.077	0.033
129-00-0	Pyrene	ND		0.055	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	46		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	71		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\HP21585\20211008-41033.b\MJ0582.D				
Lims ID:	410-57303-A-9-A				
Client ID:	MW-14D-20210929				
Sample Type:	Client				
Inject. Date:	08-Oct-2021 14:21:41	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-57303-A-9-A				
Misc. Info.:	410-0041033-057				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	09-Oct-2021 23:55:53	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1679				
First Level Reviewer: saadehw		Date:	09-Oct-2021 23:51:33		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	100	59747	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	207940	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.473	0.012	100	71103	0.1767	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	90	101435	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	95	172981	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	160131	0.2337	
* 29 Chrysene-d12	240	18.055	18.040	0.015	65	166040	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	99	69164	0.1144	
* 38 Perylene-d12	264	20.556	20.548	0.008	99	169938	0.2500	

QC Flag Legend

Processing Flags

Reagents:

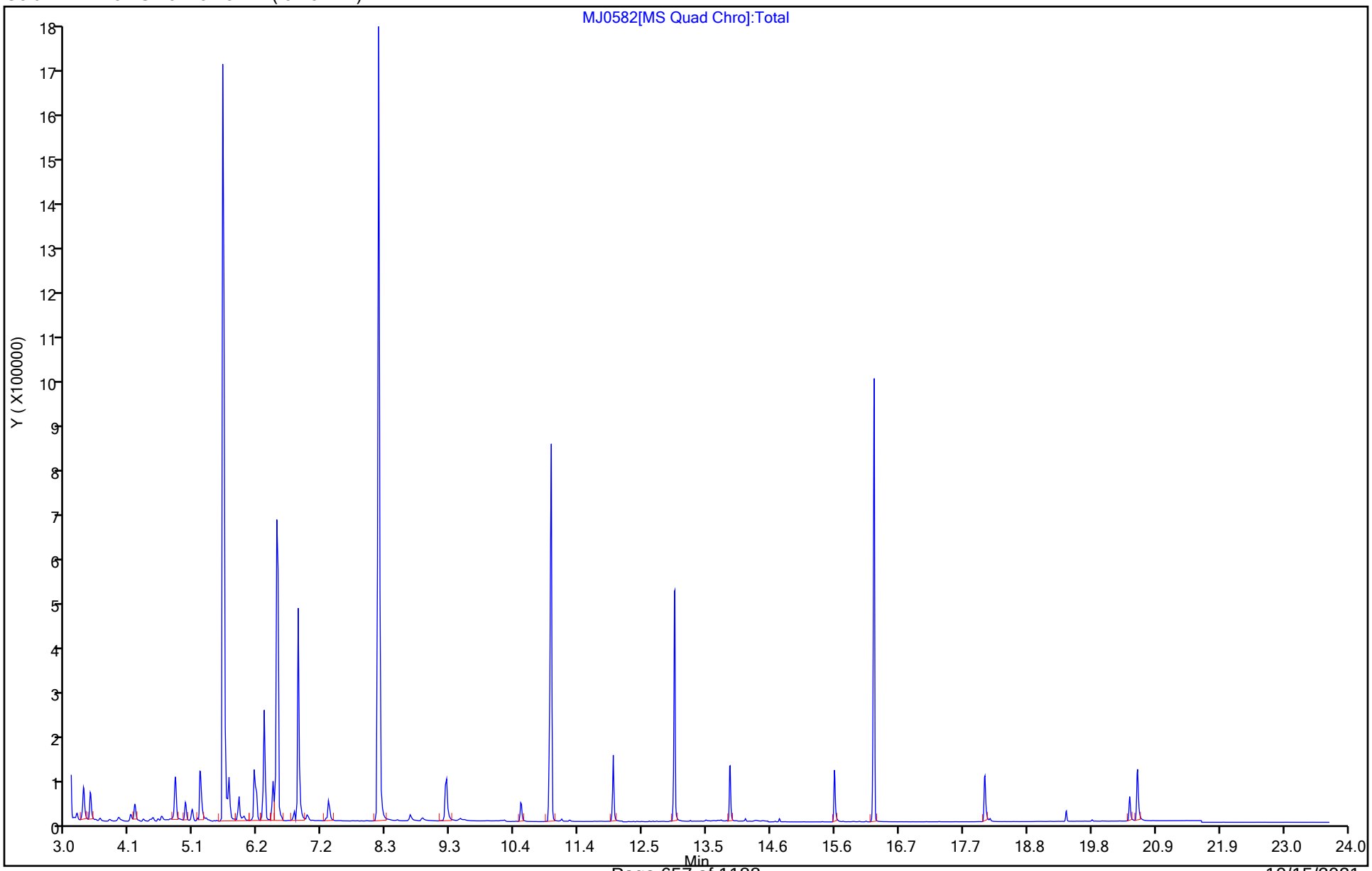
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Oct-2021 23:55:55 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0582.D				
Injection Date:	08-Oct-2021 14:21:41	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-9-A	Lab Sample ID:	410-57303-9	Worklist Smp#:	57
Client ID:	MW-14D-20210929				
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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-12S-20210929 Lab Sample ID: 410-57303-10

Matrix: Ground Water Lab File ID: MJ0583.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 12:47

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 244(mL) Date Analyzed: 10/08/2021 14:51

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.: 180407 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		0.072	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)	53		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	62		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\20211008-41033.b\MJ0583.D
Lims ID: 410-57303-A-10-A
Client ID: MW-12S-20210929
Sample Type: Client
Inject. Date: 08-Oct-2021 14:51:22 ALS Bottle#: 0 Worklist Smp#: 58
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-10-A
Misc. Info.: 410-0041033-058
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:55:53 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 23:52:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	99	60133	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	204974	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.473	0.012	100	61077	0.1539	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	94	101147	0.2500	
17 Fluorene	166	12.679	12.671	0.008	88	1120	0.001851	7M
* 20 Phenanthrene-d10	188	13.874	13.874	0.000	95	178327	0.2500	
22 Anthracene	178	13.983	13.975	0.008	100	1194	0.001411	7M
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	140735	0.1993	
25 Fluoranthene	202	15.622	15.622	0.007	99	2209	0.002265	7M
26 Pyrene	202	15.991	15.986	0.018	100	4407	0.003869	
* 29 Chrysene-d12	240	18.048	18.040	0.008	55	171528	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	99	81805	0.1315	
* 38 Perylene-d12	264	20.556	20.548	0.008	100	174931	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

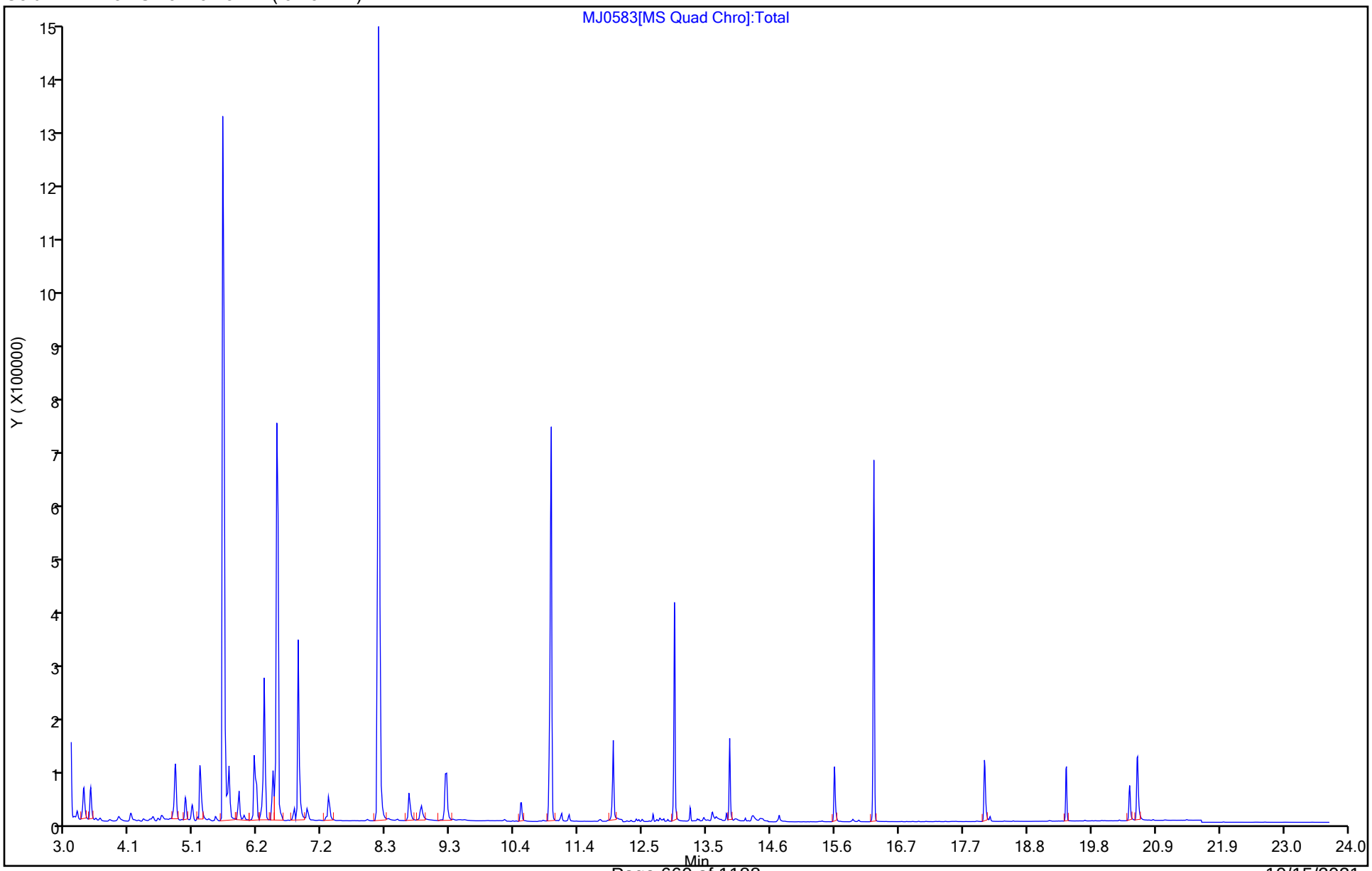
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Oct-2021 23:55:56 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0583.D				
Injection Date:	08-Oct-2021 14:51:22	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-10-A	Lab Sample ID:	410-57303-10	Worklist Smp#:	58
Client ID:	MW-12S-20210929				
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)



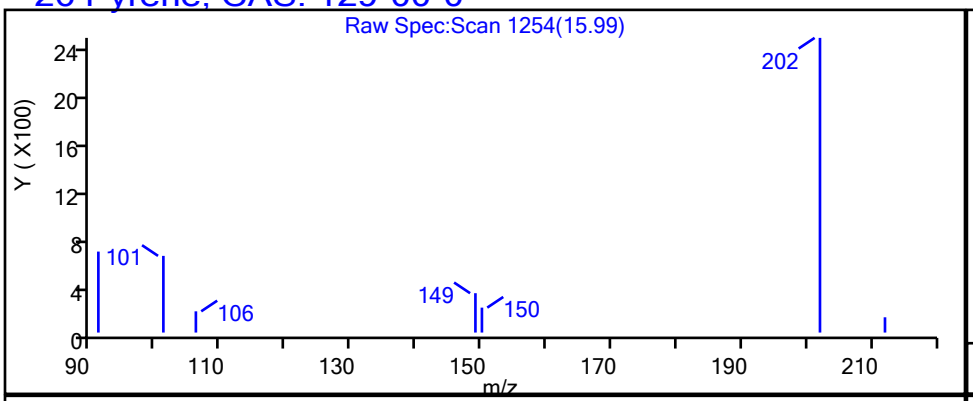
Report Date: 09-Oct-2021 23:55:56 Chrom Revision: 2.3 22-Sep-2021 15:38:46

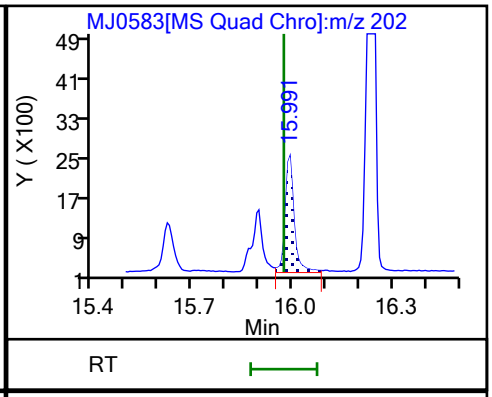
Eurofins Lancaster Laboratories Env, LLC

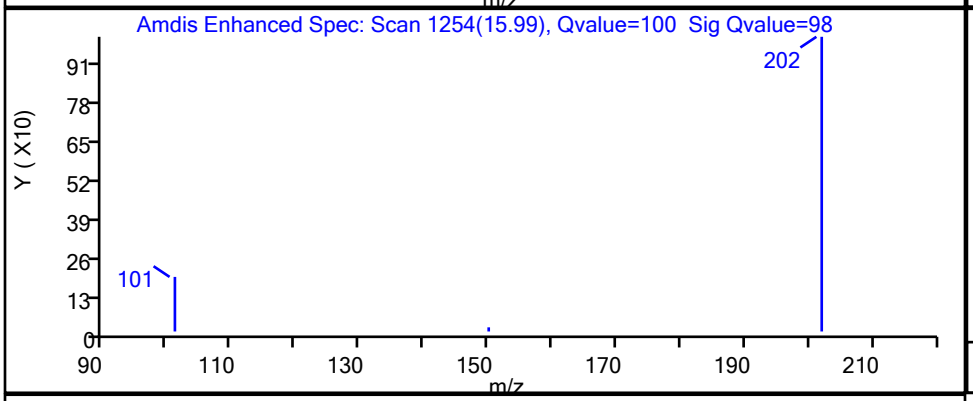
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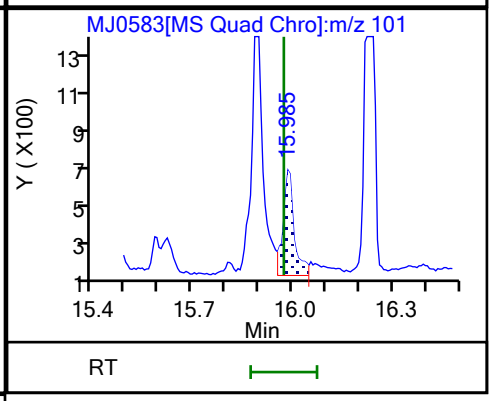
Injection Date:	08-Oct-2021 14:51:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-10-A	Lab Sample ID:	410-57303-10		
Client ID:	MW-12S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

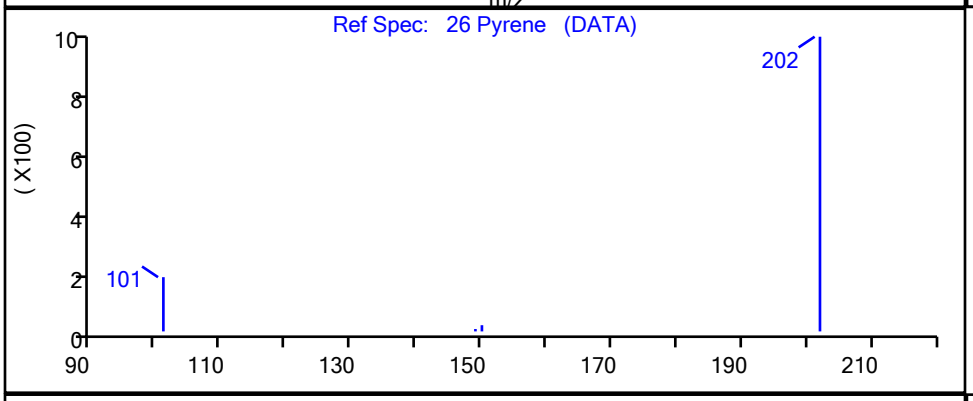
26 Pyrene, CAS: 129-00-0

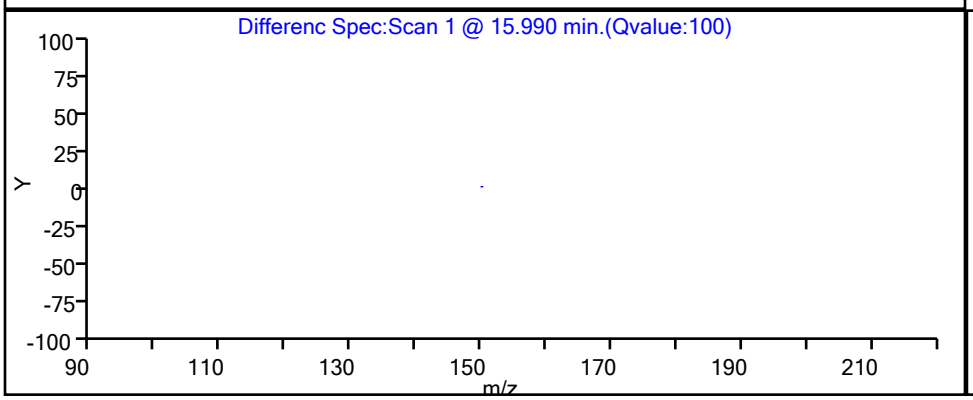


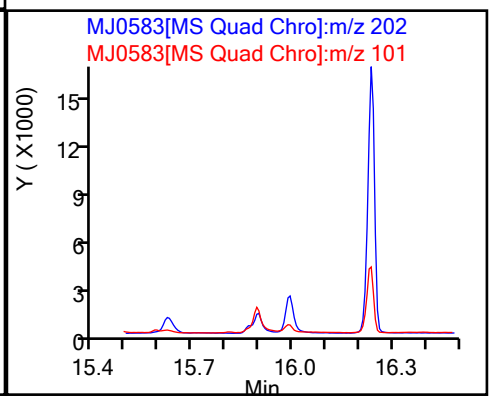












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

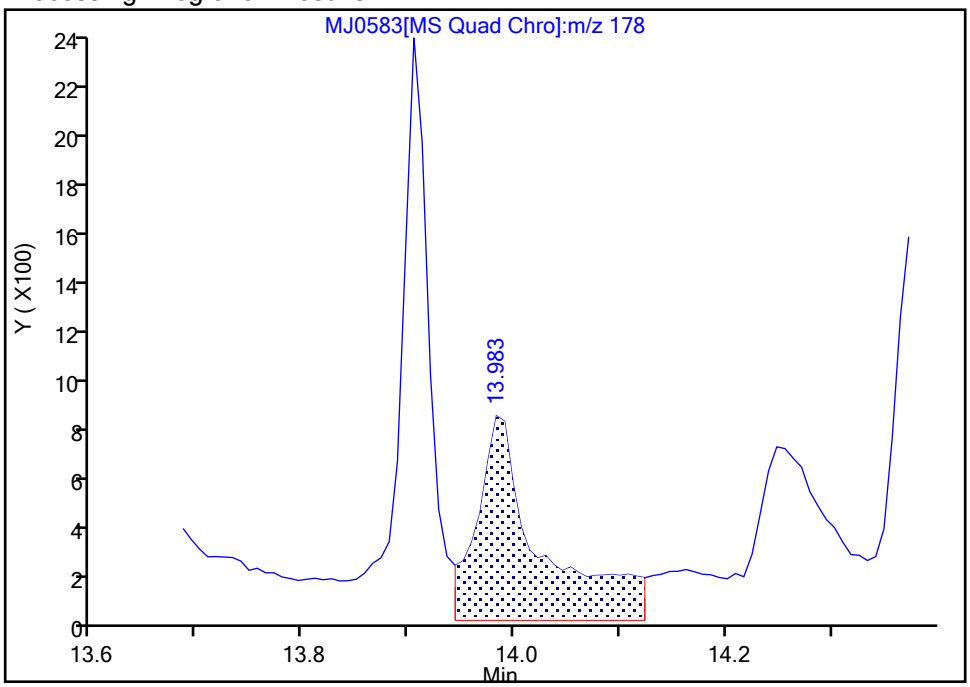
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0583.D				
Injection Date:	08-Oct-2021 14:51:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-10-A	Lab Sample ID:	410-57303-10		
Client ID:	MW-12S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 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

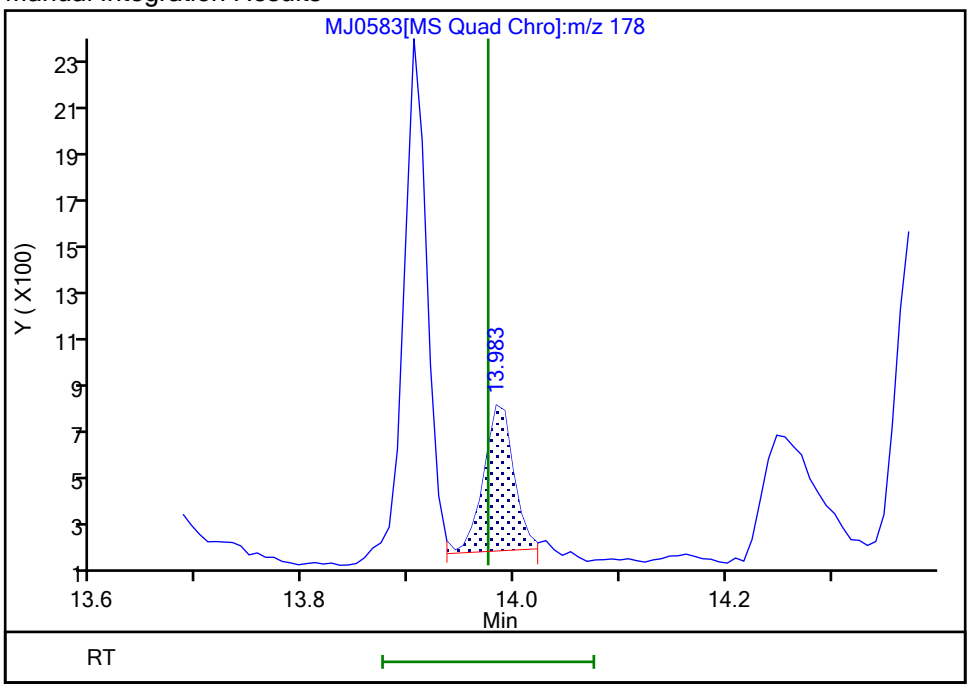
Processing Integration Results

RT: 13.98
Area: 3393
Amount: 0.004011
Amount Units: ug/ml



Manual Integration Results

RT: 13.98
Area: 1194
Amount: 0.001411
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:51:58

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

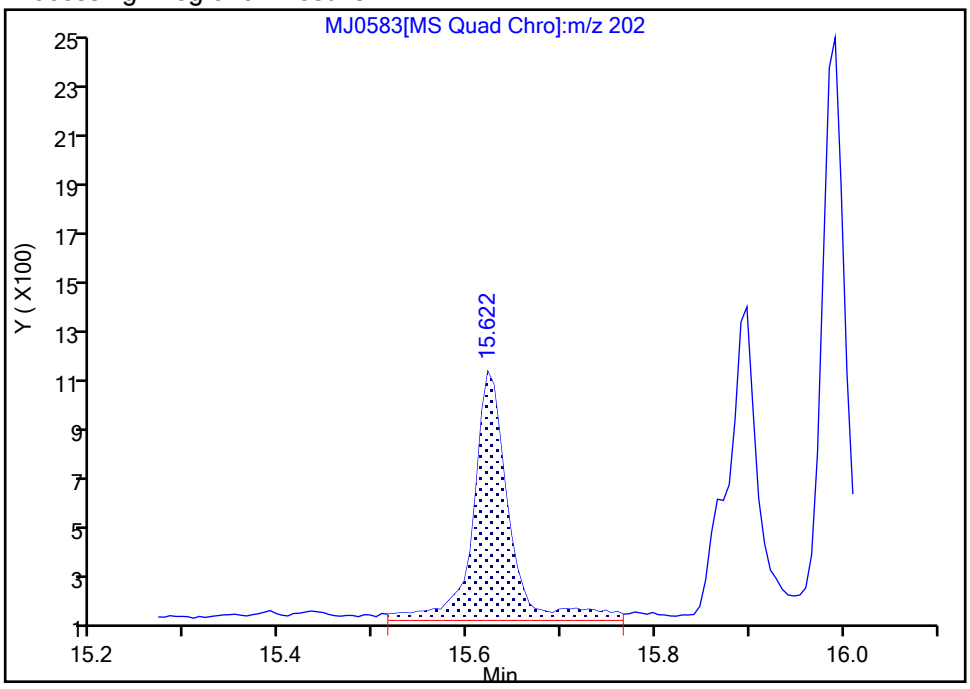
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0583.D				
Injection Date:	08-Oct-2021 14:51:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-10-A	Lab Sample ID:	410-57303-10		
Client ID:	MW-12S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 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

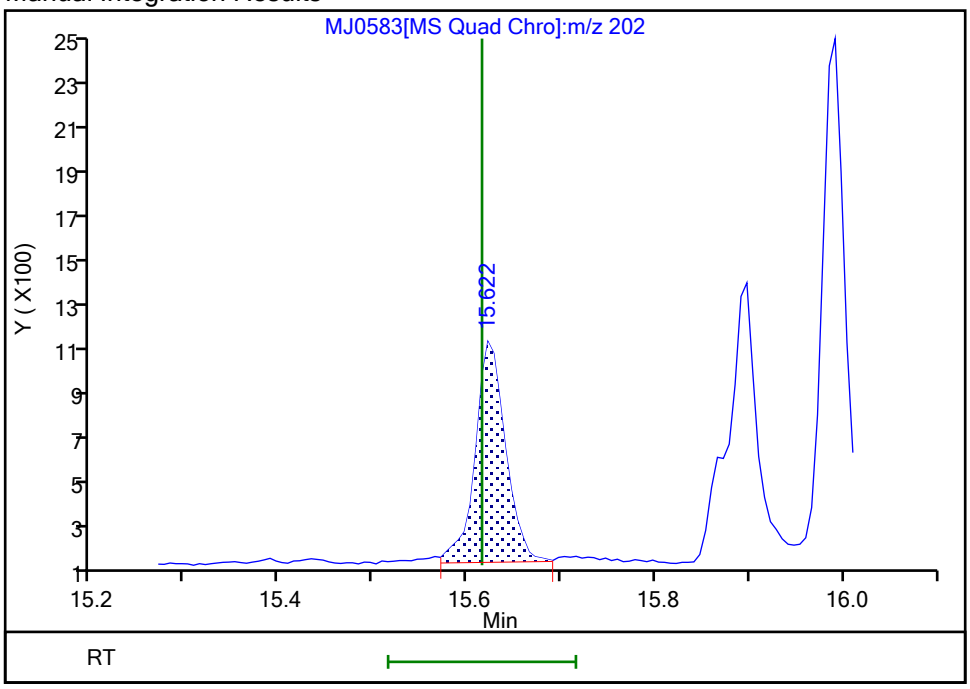
Processing Integration Results

RT: 15.62
Area: 2669
Amount: 0.002737
Amount Units: ug/ml



Manual Integration Results

RT: 15.62
Area: 2209
Amount: 0.002265
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:52:02

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

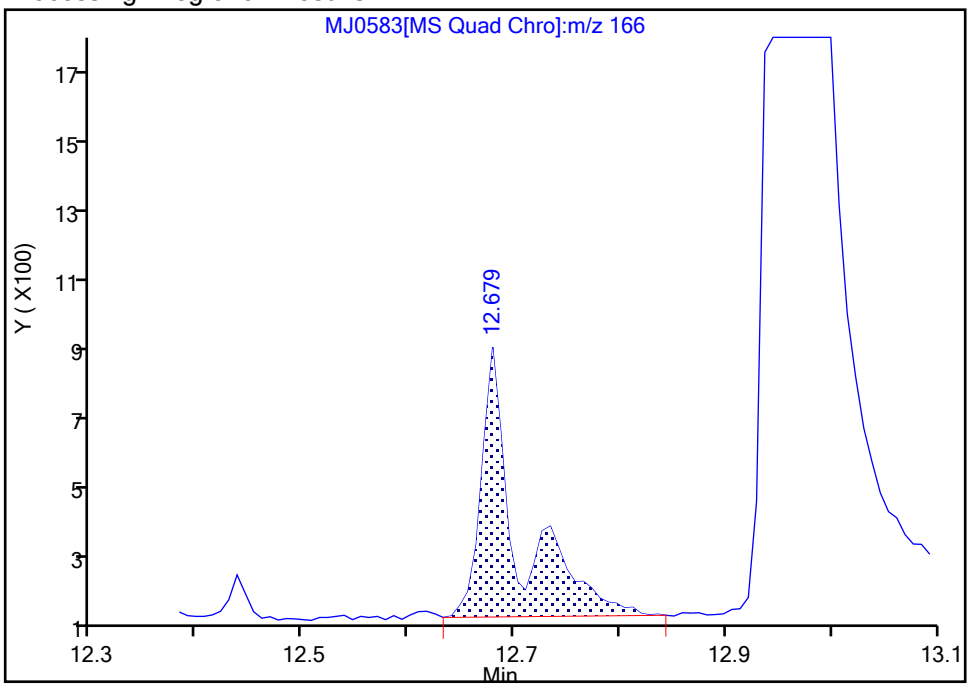
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0583.D				
Injection Date:	08-Oct-2021 14:51:22	Instrument ID:	HP21585		
Lims ID:	410-57303-A-10-A	Lab Sample ID:	410-57303-10		
Client ID:	MW-12S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 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

Signal: 1

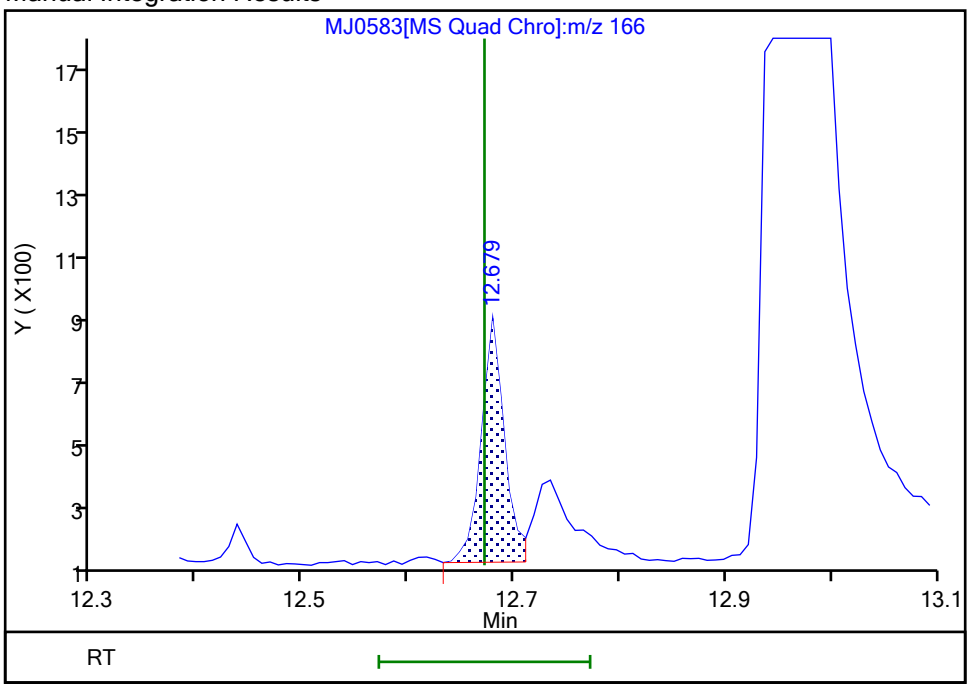
Processing Integration Results

RT: 12.68
Area: 1785
Amount: 0.002950
Amount Units: ug/ml



Manual Integration Results

RT: 12.68
Area: 1120
Amount: 0.001851
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:51:45

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-12D-20210929 Lab Sample ID: 410-57303-11

Matrix: Ground Water Lab File ID: MJ0584.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 13:26

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 246.8(mL) Date Analyzed: 10/08/2021 15:21

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.: 180407 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)	43		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	67		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\20211008-41033.b\MJ0584.D				
Lims ID:	410-57303-A-11-A				
Client ID:	MW-12D-20210929				
Sample Type:	Client				
Inject. Date:	08-Oct-2021 15:21:03	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-57303-A-11-A				
Misc. Info.:	410-0041033-059				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	09-Oct-2021 23:55:53	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1679				
First Level Reviewer: saadehw		Date:	09-Oct-2021 23:52:20		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	99	63960	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	218595	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.473	0.012	100	70891	0.1675	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	92	109263	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	95	188795	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	154832	0.2071	
* 29 Chrysene-d12	240	18.055	18.040	0.015	56	178892	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	99	69897	0.1065	
* 38 Perylene-d12	264	20.556	20.548	0.008	99	184522	0.2500	

QC Flag Legend

Processing Flags

Reagents:

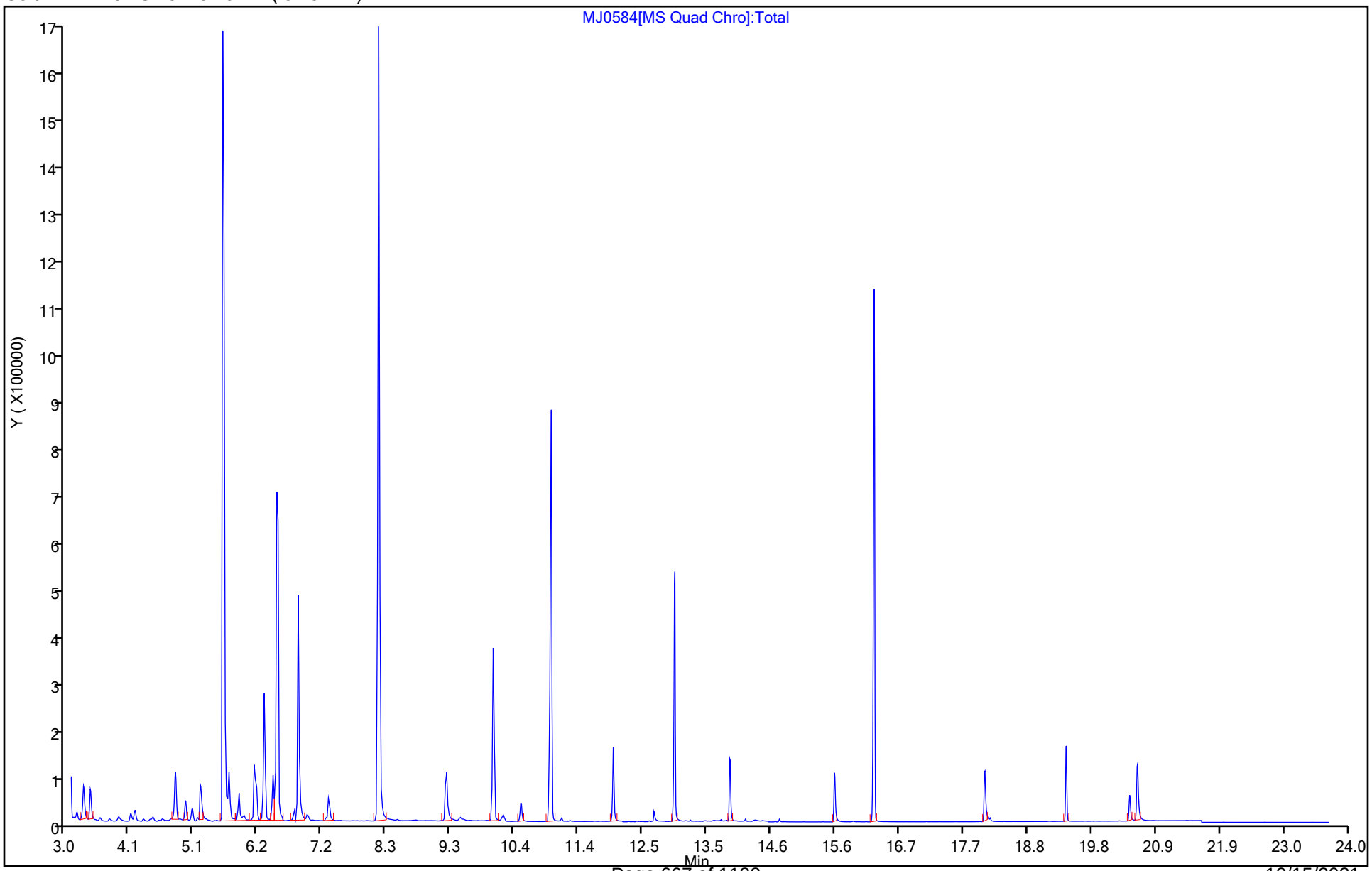
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Oct-2021 23:55:57 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0584.D				
Injection Date:	08-Oct-2021 15:21:03	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-11-A	Lab Sample ID:	410-57303-11	Worklist Smp#:	59
Client ID:	MW-12D-20210929				
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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: FB-20210929 Lab Sample ID: 410-57303-12

Matrix: Water Lab File ID: MJ0585.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 13:40

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 240.6(mL) Date Analyzed: 10/08/2021 15:50

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.: 180407 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	ND		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		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\HP21585\20211008-41033.b\MJ0585.D				
Lims ID:	410-57303-A-12-A				
Client ID:	FB-20210929				
Sample Type:	Client				
Inject. Date:	08-Oct-2021 15:50:47	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-57303-A-12-A				
Misc. Info.:	410-0041033-060				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	09-Oct-2021 23:55:53	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1679				
First Level Reviewer: saadehw		Date:	09-Oct-2021 23:52:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	98	62351	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	213541	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.450	10.473	0.000	100	83680	0.2025	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	89	106799	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	97	172391	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	168055	0.2461	
* 29 Chrysene-d12	240	18.055	18.040	0.015	55	158586	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	100	131475	0.2131	
* 38 Perylene-d12	264	20.556	20.548	0.008	99	173458	0.2500	

QC Flag Legend

Processing Flags

Reagents:

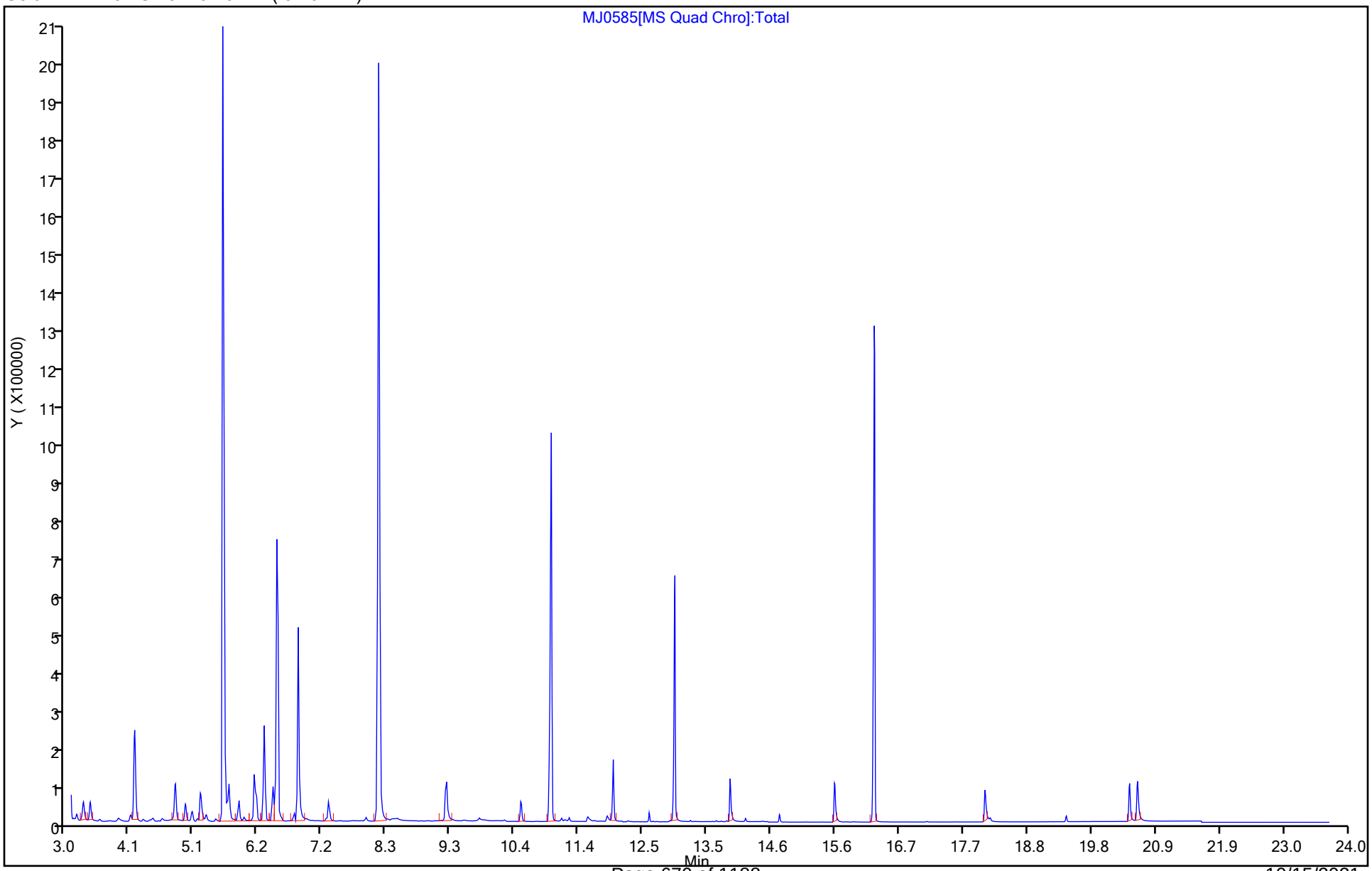
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Oct-2021 23:55:57 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0585.D				
Injection Date:	08-Oct-2021 15:50:47	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-12-A	Lab Sample ID:	410-57303-12	Worklist Smp#:	60
Client ID:	FB-20210929				
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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-11S-20210929 Lab Sample ID: 410-57303-13

Matrix: Ground Water Lab File ID: MJ0586.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 14:20

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 241.1(mL) Date Analyzed: 10/08/2021 16:20

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.: 180407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.95		0.052	0.010
208-96-8	Acenaphthylene	0.024	J	0.052	0.010
120-12-7	Anthracene	0.044	J	0.052	0.010
56-55-3	Benzo[a]anthracene	0.059		0.052	0.010
50-32-8	Benzo[a]pyrene	0.039	J	0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.042	J	0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.019	J	0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.016	J	0.052	0.010
218-01-9	Chrysene	0.074		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	0.17		0.052	0.010
86-73-7	Fluorene	0.16		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	0.073	B	0.073	0.031
85-01-8	Phenanthrene	0.11		0.073	0.031
129-00-0	Pyrene	0.23		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	12		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	13	S1-	36-111
93951-69-0	Fluoranthene-d10 (Surr)	17	S1-	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0586.D
Lims ID: 410-57303-A-13-A
Client ID: MW-11S-20210929
Sample Type: Client
Inject. Date: 08-Oct-2021 16:20:21 ALS Bottle#: 0 Worklist Smp#: 61
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-13-A
Misc. Info.: 410-0041033-061
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:55:53 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 23:53:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.320	0.000	94	56032	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	198835	0.2500	
6 Naphthalene	128	9.257	9.257	-0.001	94	16315	0.0177	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.473	0.012	100	12856	0.0334	
12 Acenaphthylene	152	11.783	11.783	0.012	100	4903	0.005765	M
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	94	101556	0.2500	
14 Acenaphthene	154	12.015	12.003	0.012	93	118433	0.2291	
17 Fluorene	166	12.679	12.671	0.008	95	23242	0.0383	M
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	95	169917	0.2500	
21 Phenanthrene	178	13.912	13.905	0.007	100	22336	0.0254	
22 Anthracene	178	14.014	13.975	0.039	100	8456	0.0105	M
$ 24 Fluoranthene-d10 (Surr)	212	15.603	15.592	0.019	100	28316	0.0421	
25 Fluoranthene	202	15.628	15.622	0.013	100	38489	0.0414	
26 Pyrene	202	15.985	15.986	0.012	100	59254	0.0552	
28 Benzo[a]anthracene	228	18.040	18.040	0.015	100	13155	0.0142	
* 29 Chrysene-d12	240	18.047	18.040	0.007	74	161576	0.2500	
30 Chrysene	228	18.101	18.101	0.015	100	18403	0.0179	
33 Benzo[b]fluoranthene	252	19.965	19.965	0.054	100	9095	0.0101	a
34 Benzo[k]fluoranthene	252	20.011	19.988	0.054	100	3701	0.003840	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.417	0.023	99	16937	0.0299	
37 Benzo[a]pyrene	252	20.471	20.464	0.015	100	7853	0.009326	
* 38 Perylene-d12	264	20.555	20.548	0.007	99	159213	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.447	22.328	0.127	98	3100	0.004586	M
41 Dibenz(a,h)anthracene	278	22.503	22.370	0.141	89	388	0.000496	7M
42 Benzo[g,h,i]perylene	276	22.920	22.822	0.106	100	3772	0.004566	M

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

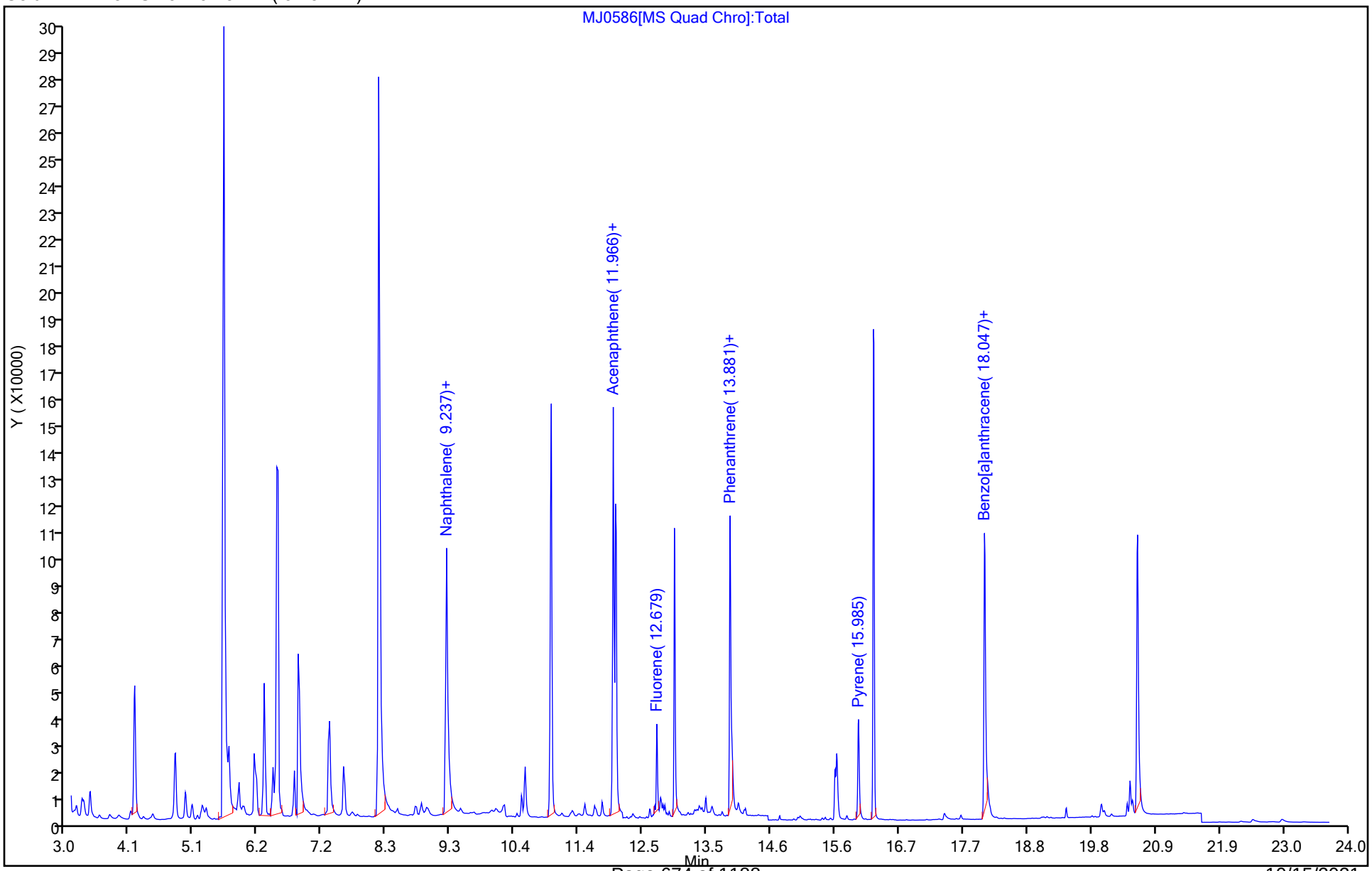
Report Date: 09-Oct-2021 23:55:58 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0586.D

Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13	Worklist Smp#:	61
Client ID:	MW-11S-20210929				
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)



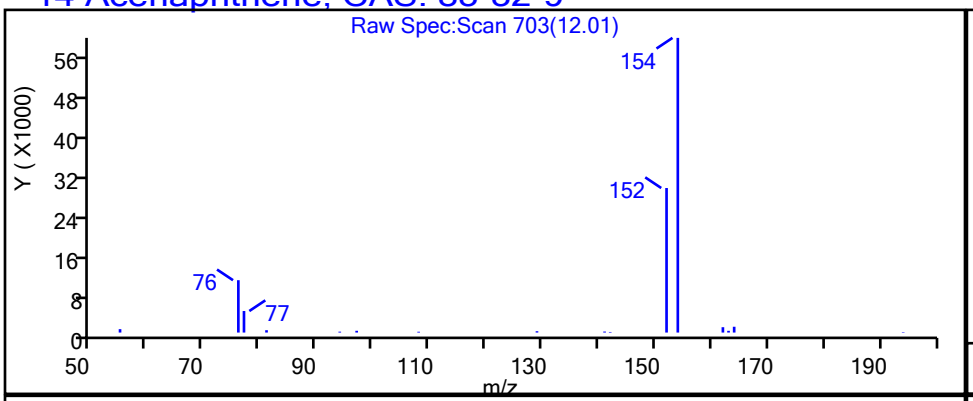
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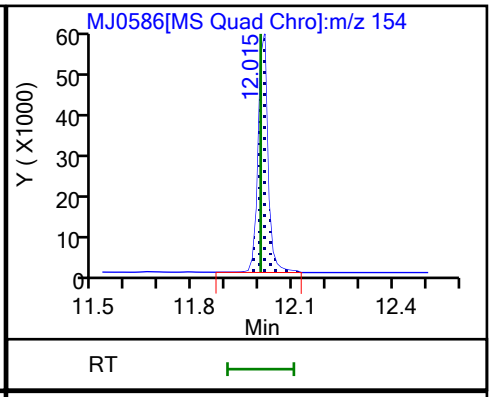
Eurofins Lancaster Laboratories Env, LLC

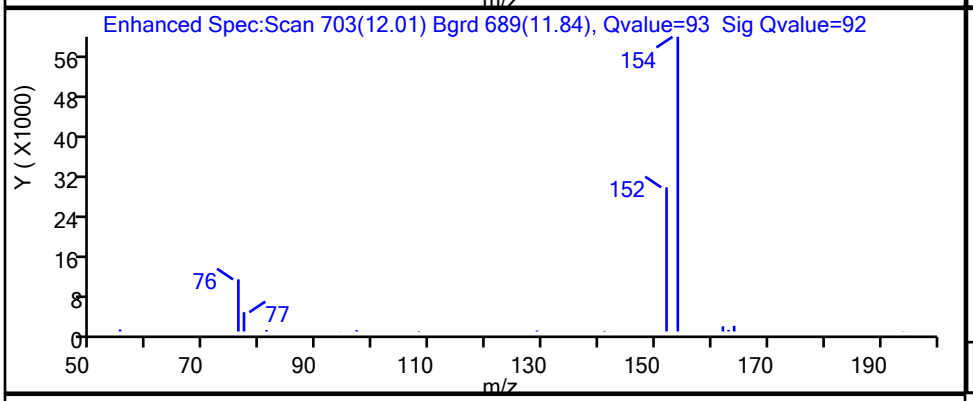
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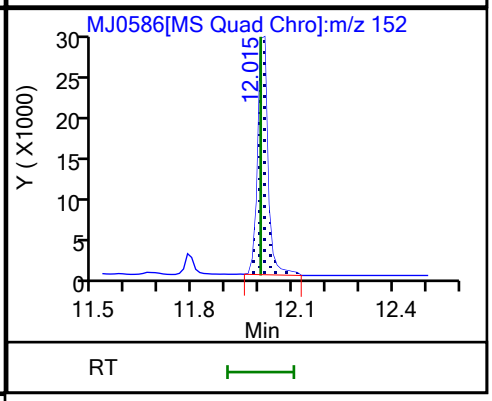
Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

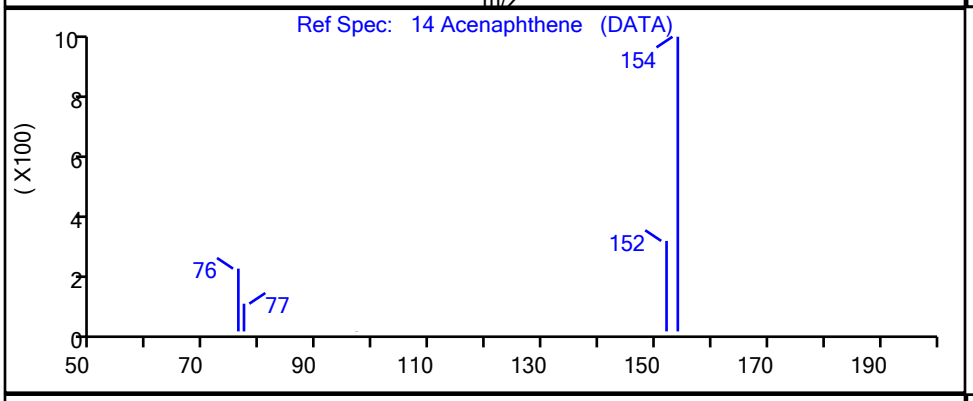
14 Acenaphthene, CAS: 83-32-9

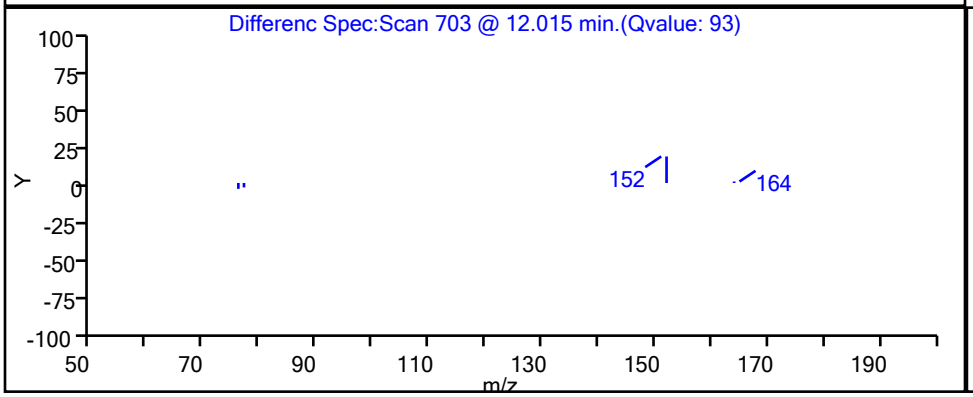


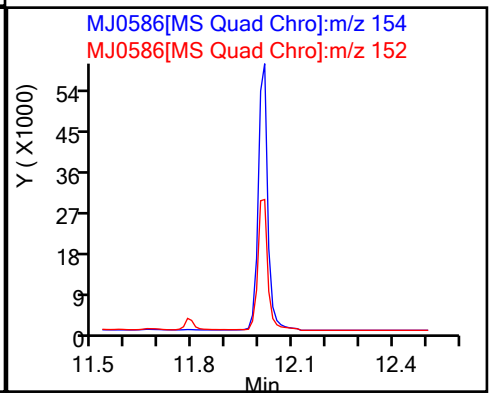












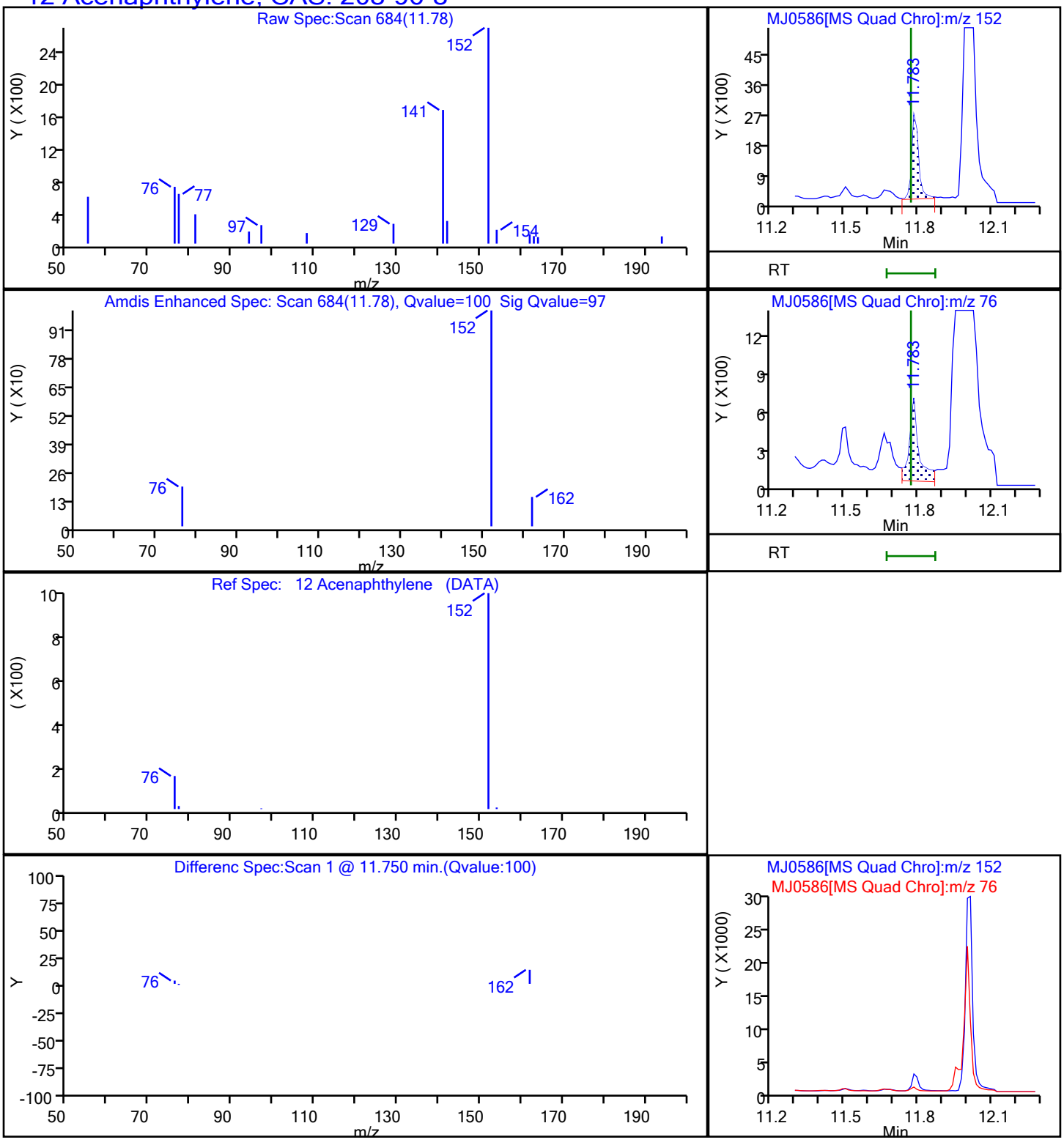
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0586.D

Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
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



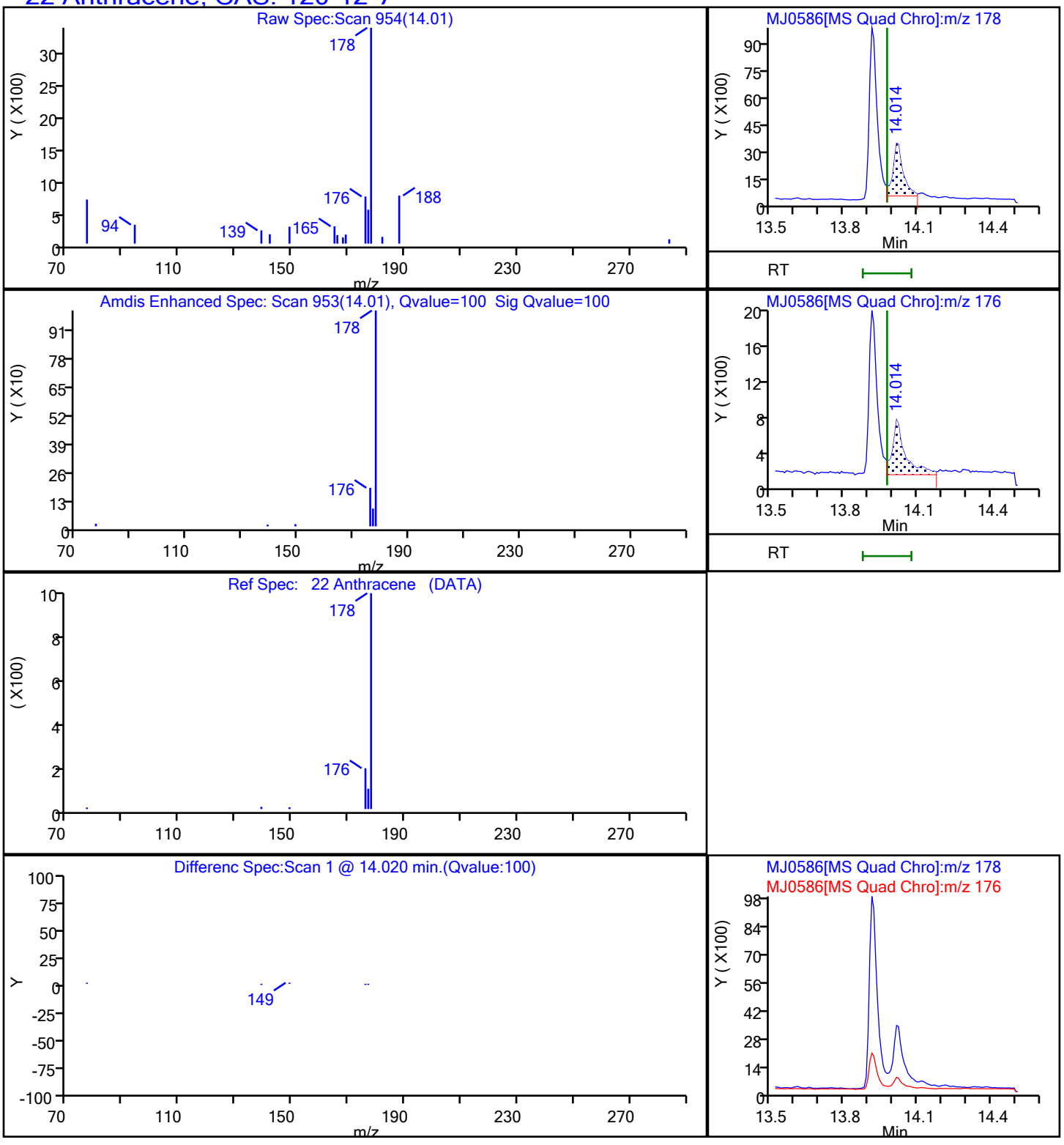
Report Date: 09-Oct-2021 23:55:58 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0586.D

Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
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

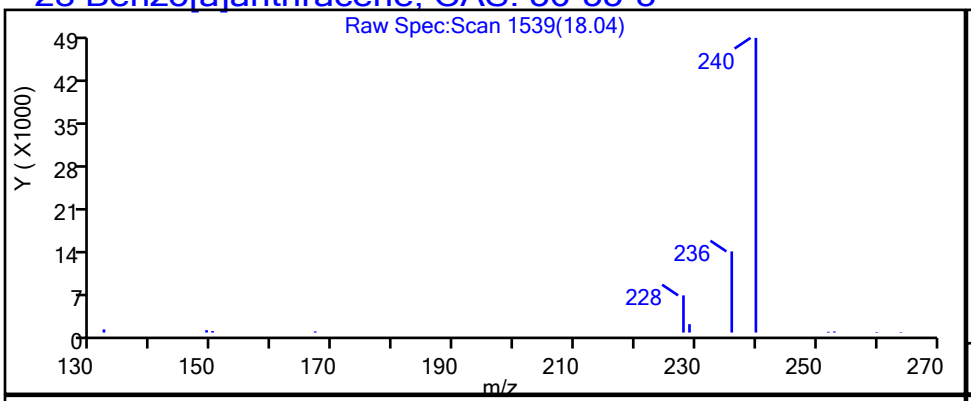


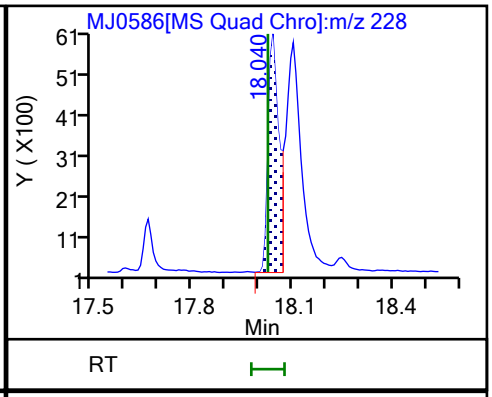
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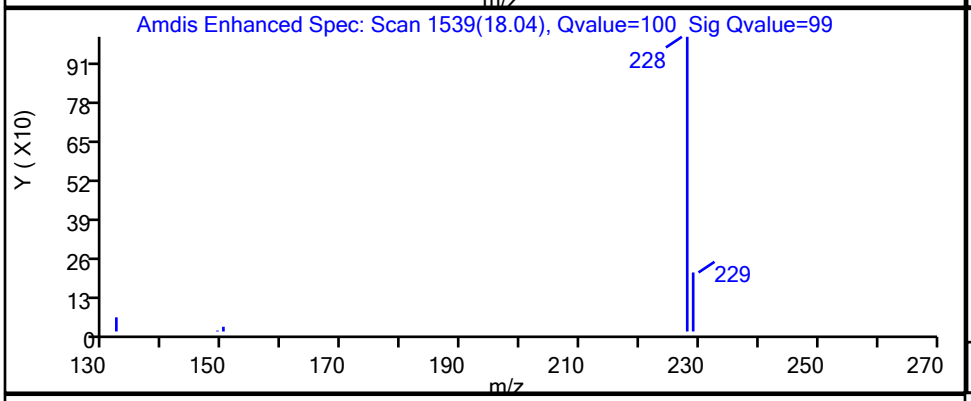
Eurofins Lancaster Laboratories Env, LLC

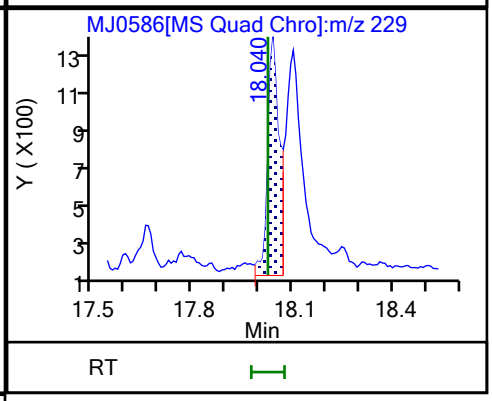
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

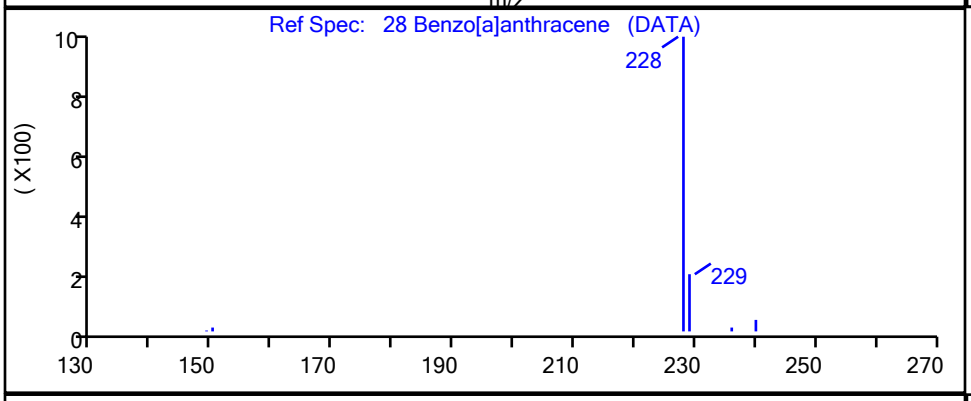
28 Benzo[a]anthracene, CAS: 56-55-3

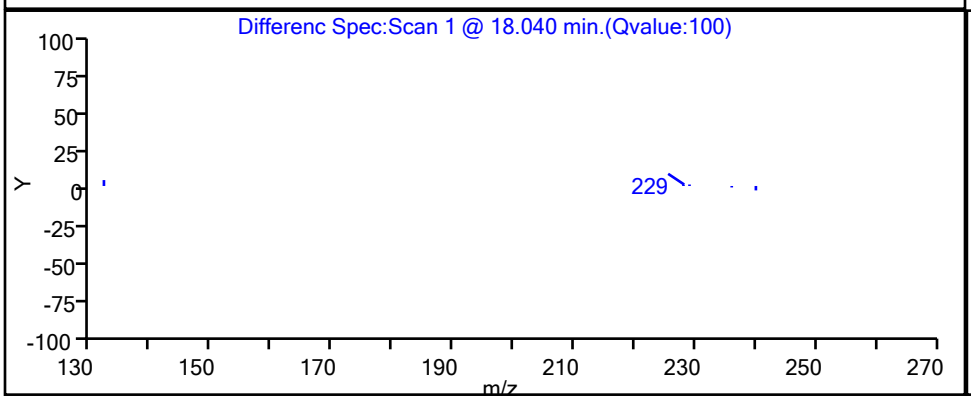


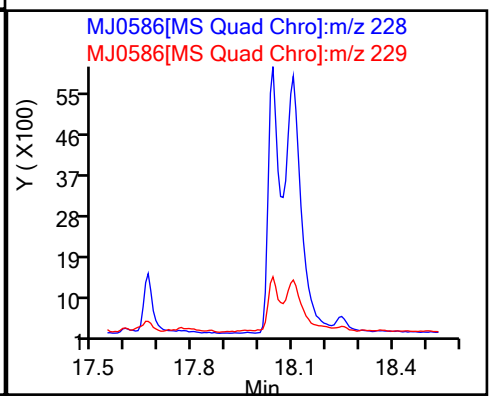








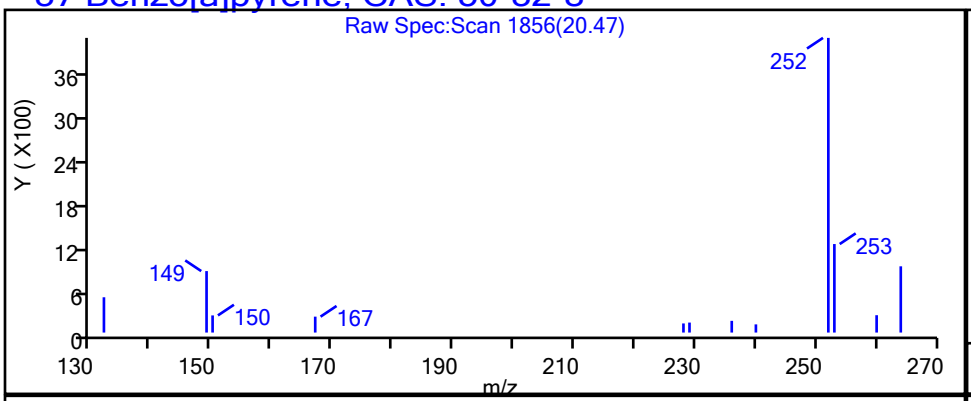


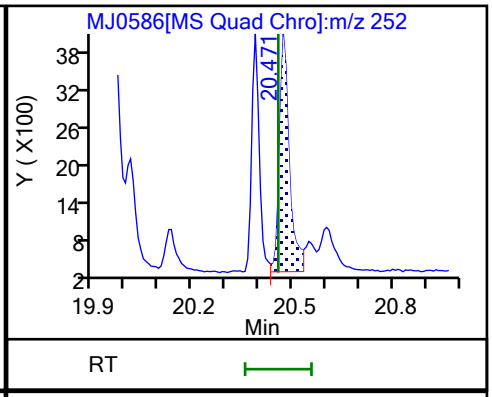


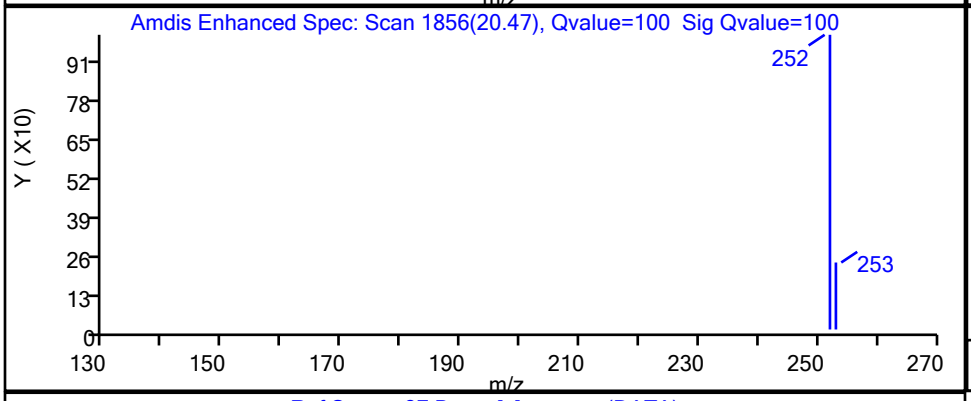
Eurofins Lancaster Laboratories Env, LLC

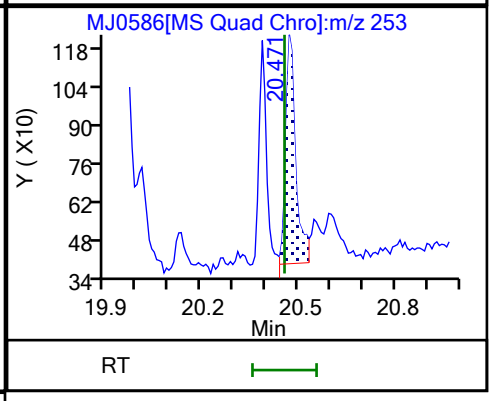
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Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

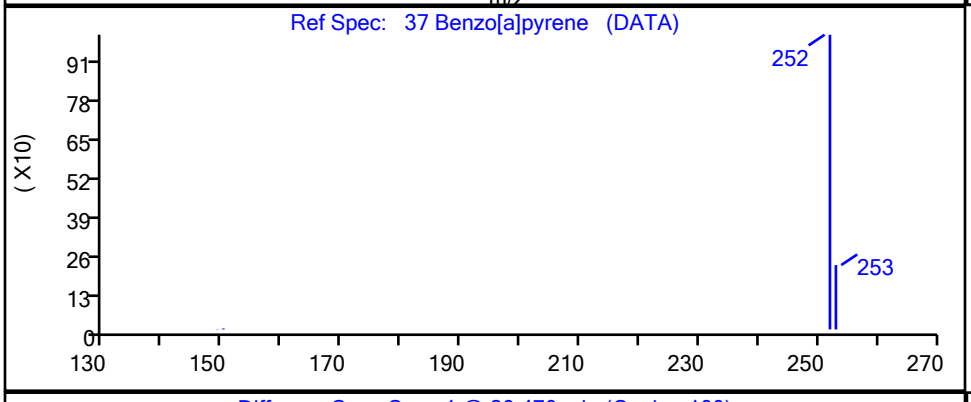
37 Benzo[a]pyrene, CAS: 50-32-8

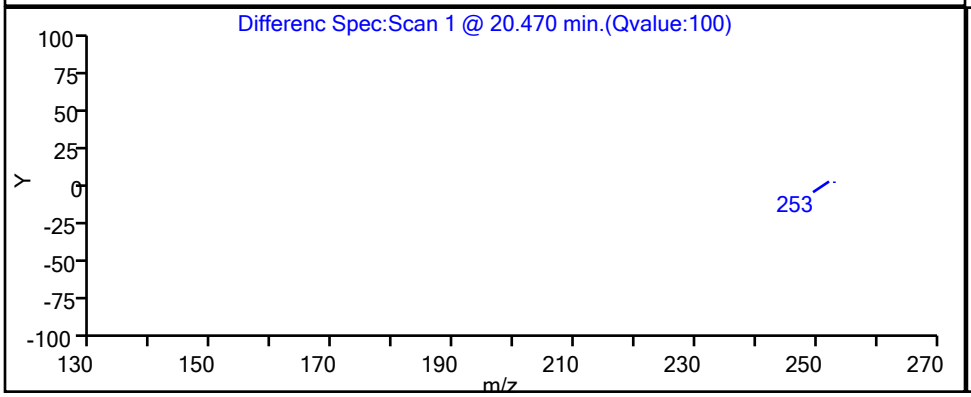


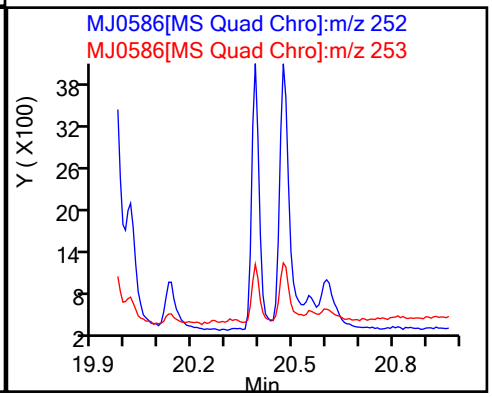










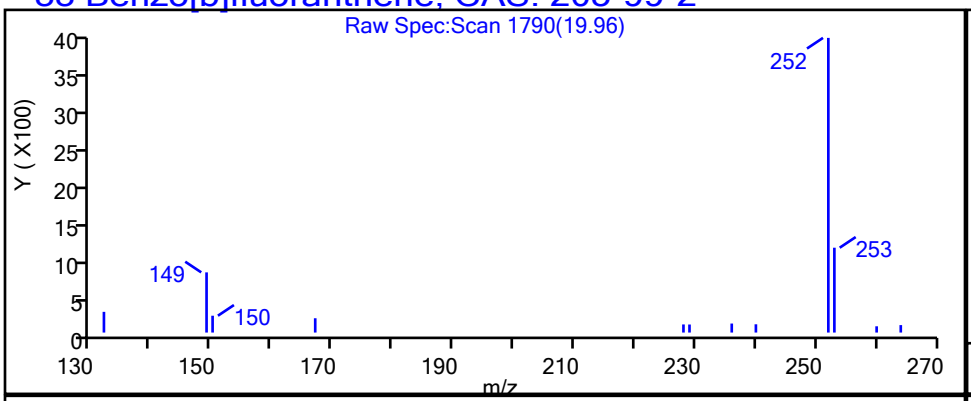


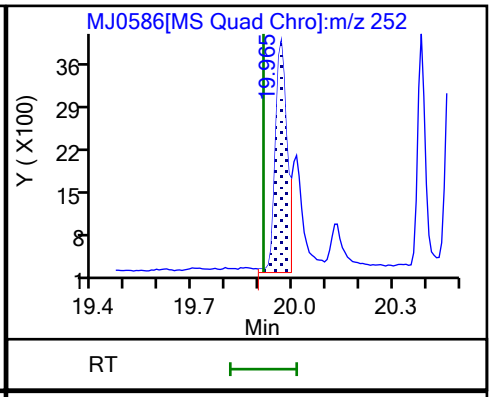
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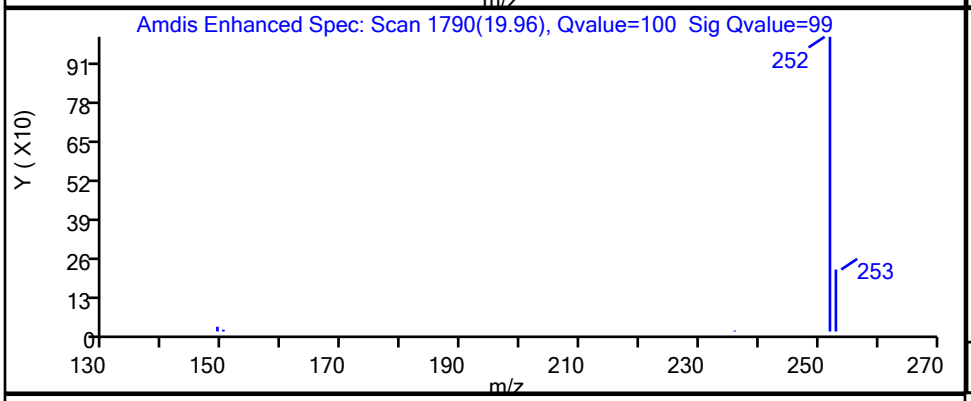
Eurofins Lancaster Laboratories Env, LLC

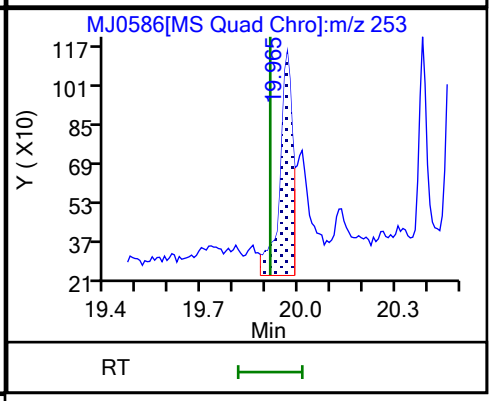
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

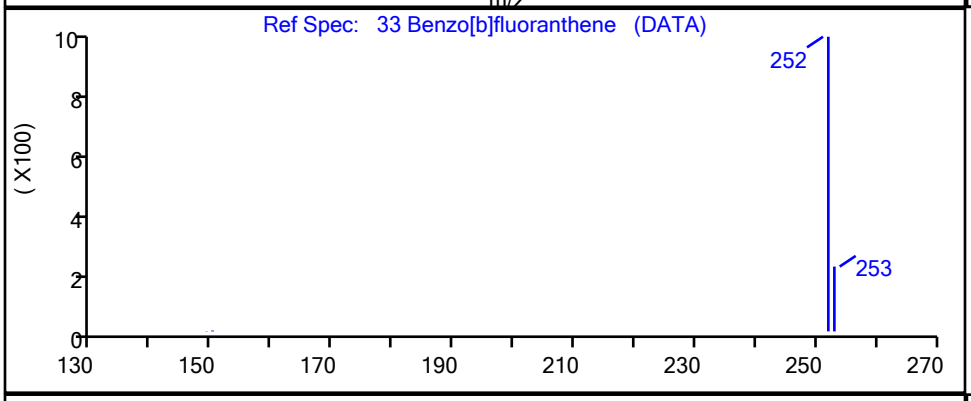
33 Benzo[b]fluoranthene, CAS: 205-99-2

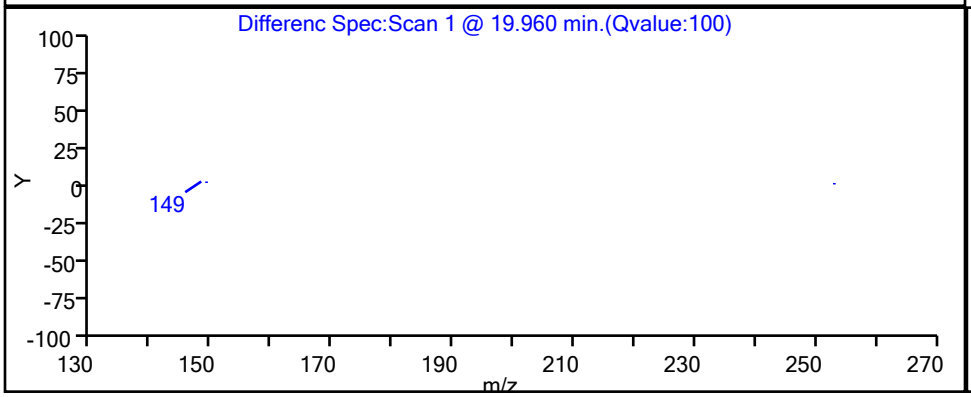


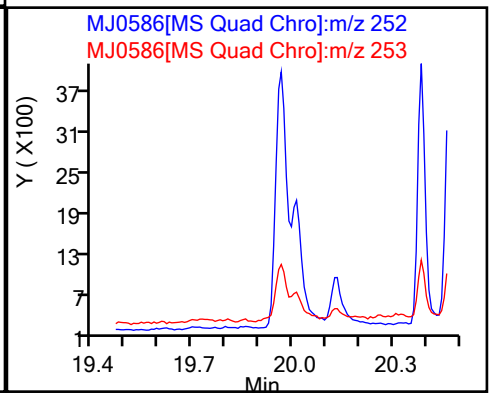










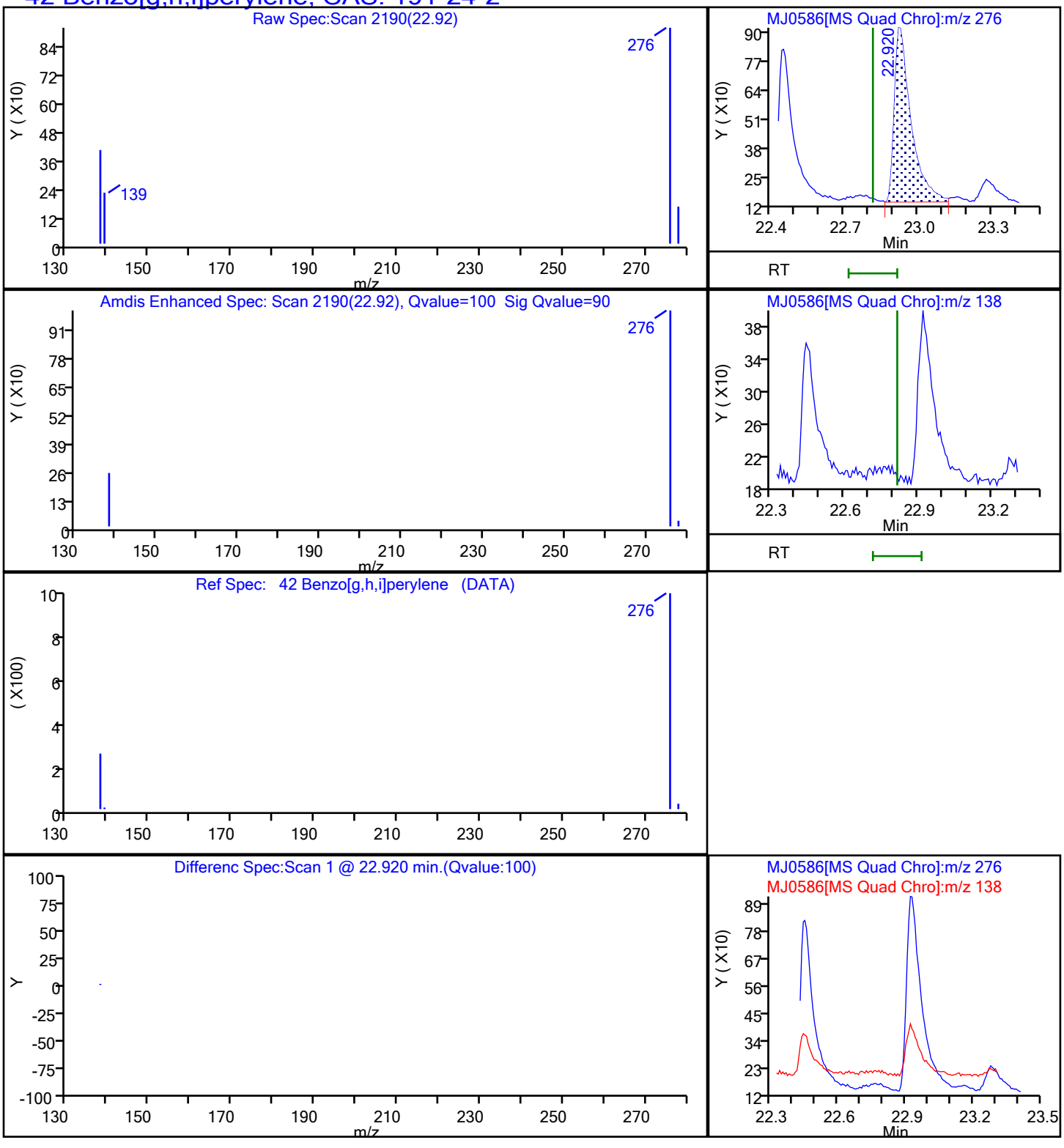


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Eurofins Lancaster Laboratories Env, LLC

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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		

42 Benzo[g,h,i]perylene, CAS: 191-24-2



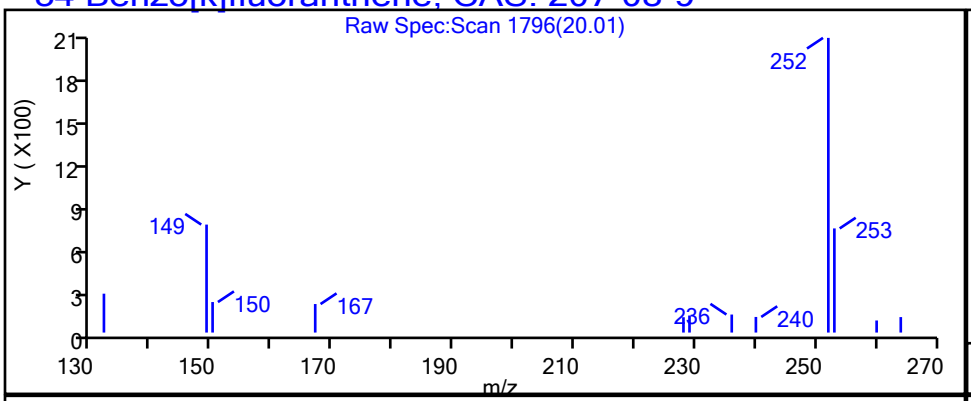
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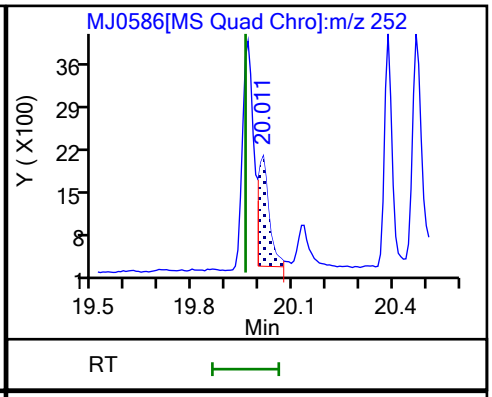
Eurofins Lancaster Laboratories Env, LLC

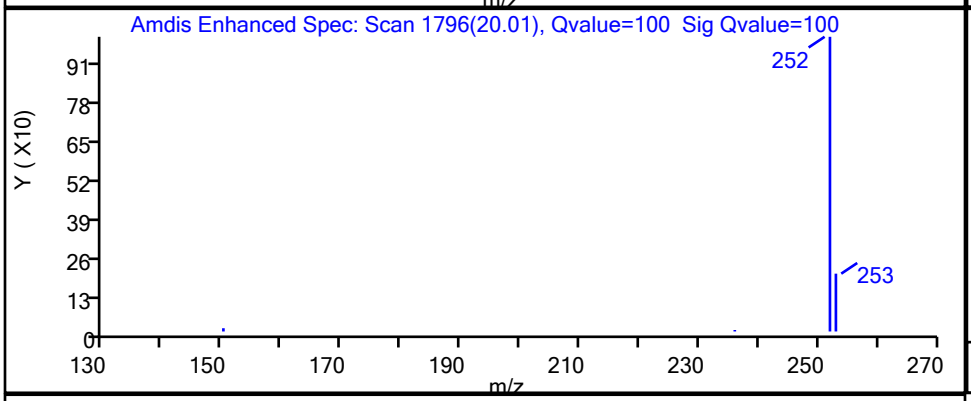
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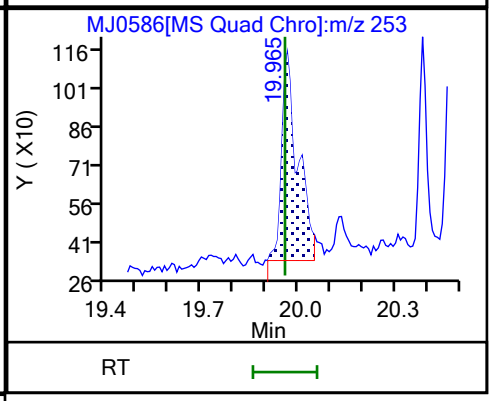
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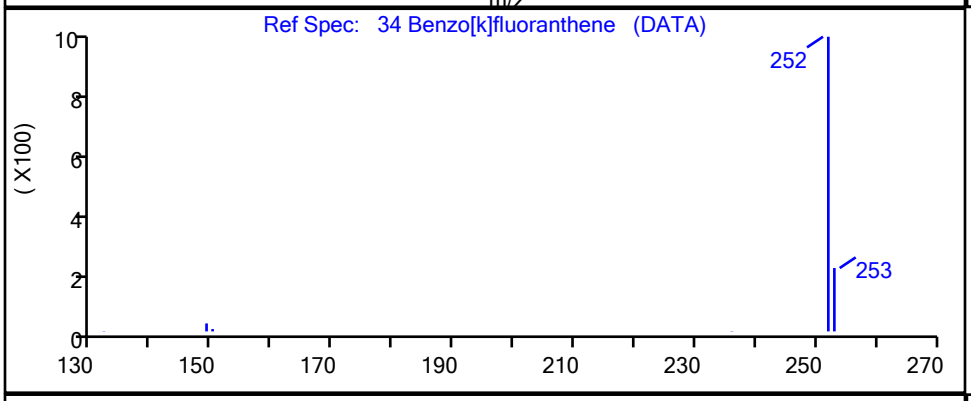
34 Benzo[k]fluoranthene, CAS: 207-08-9

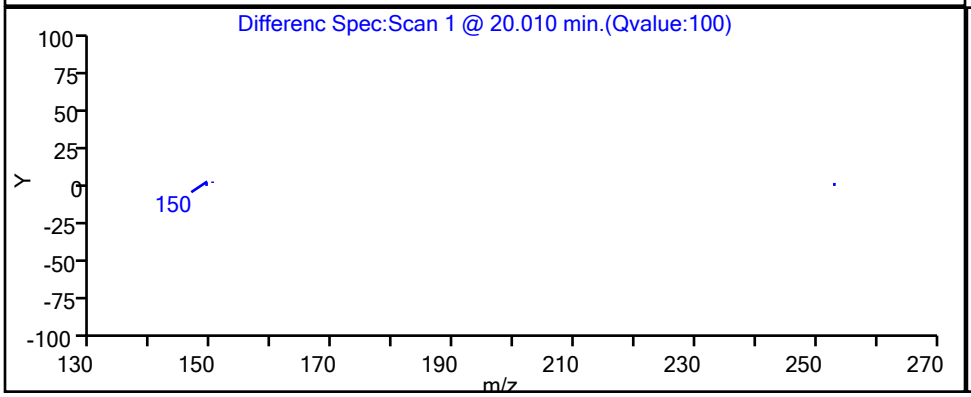


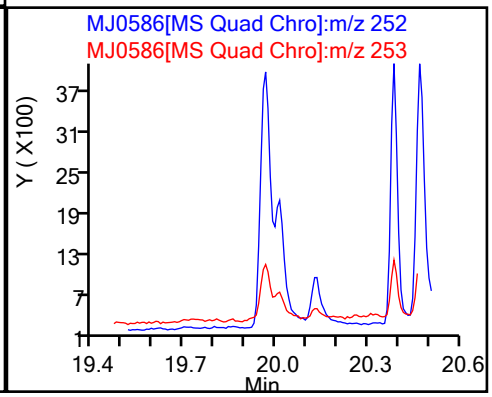










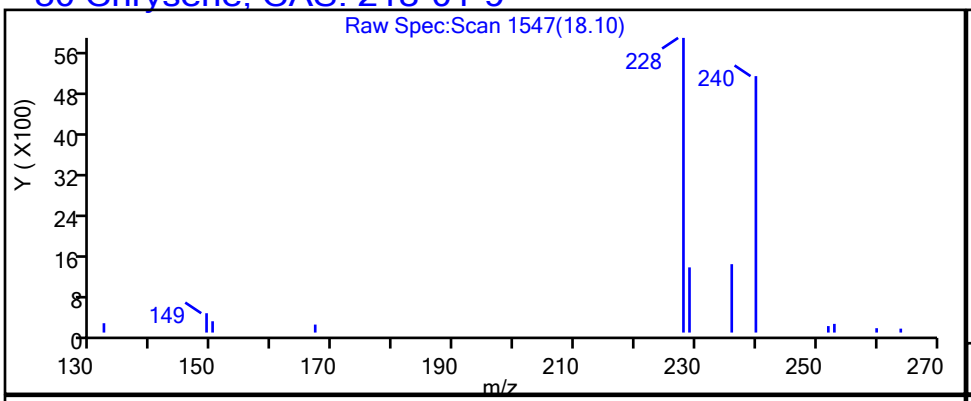


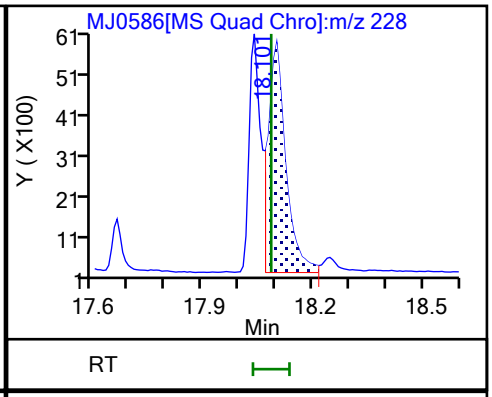
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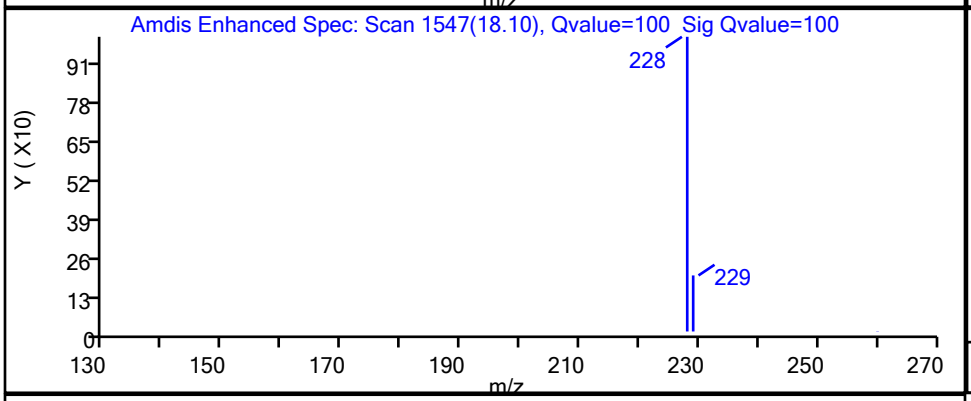
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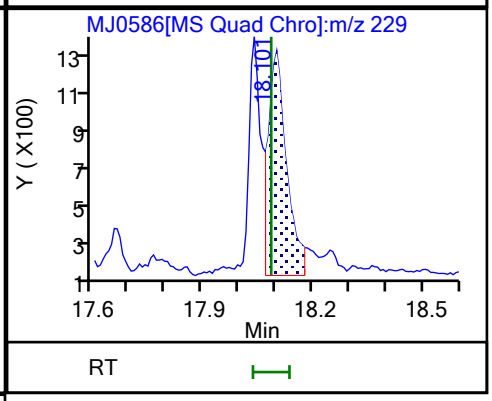
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

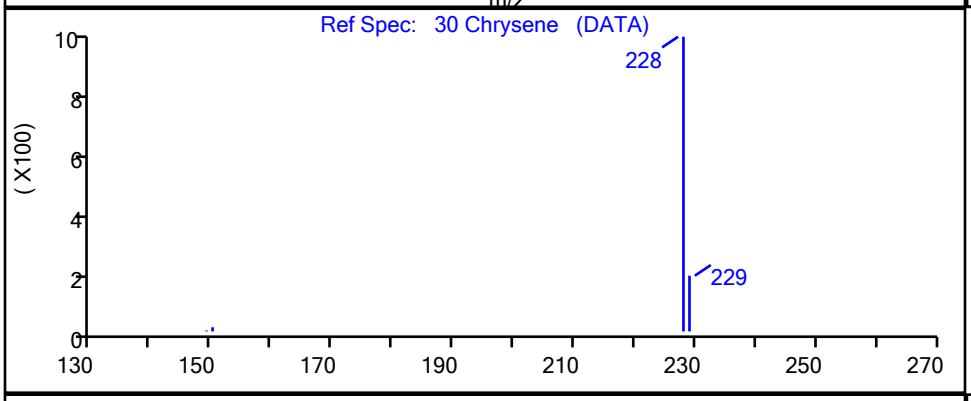
30 Chrysene, CAS: 218-01-9

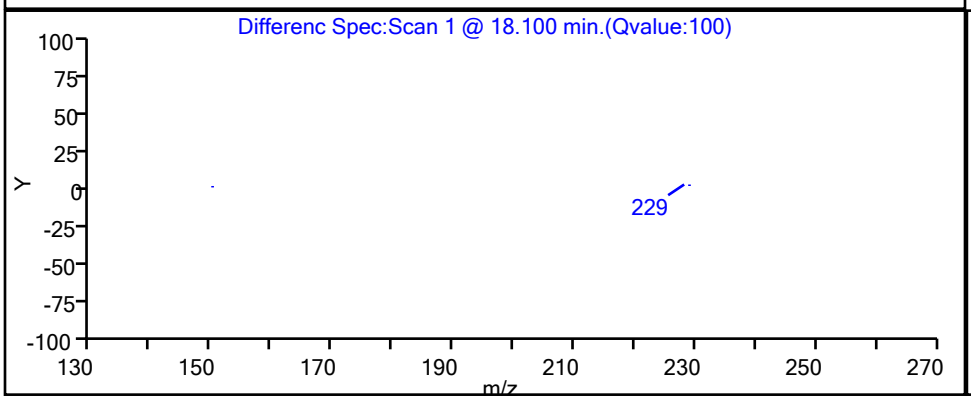


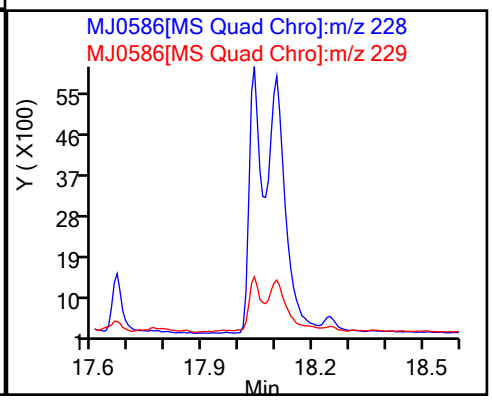












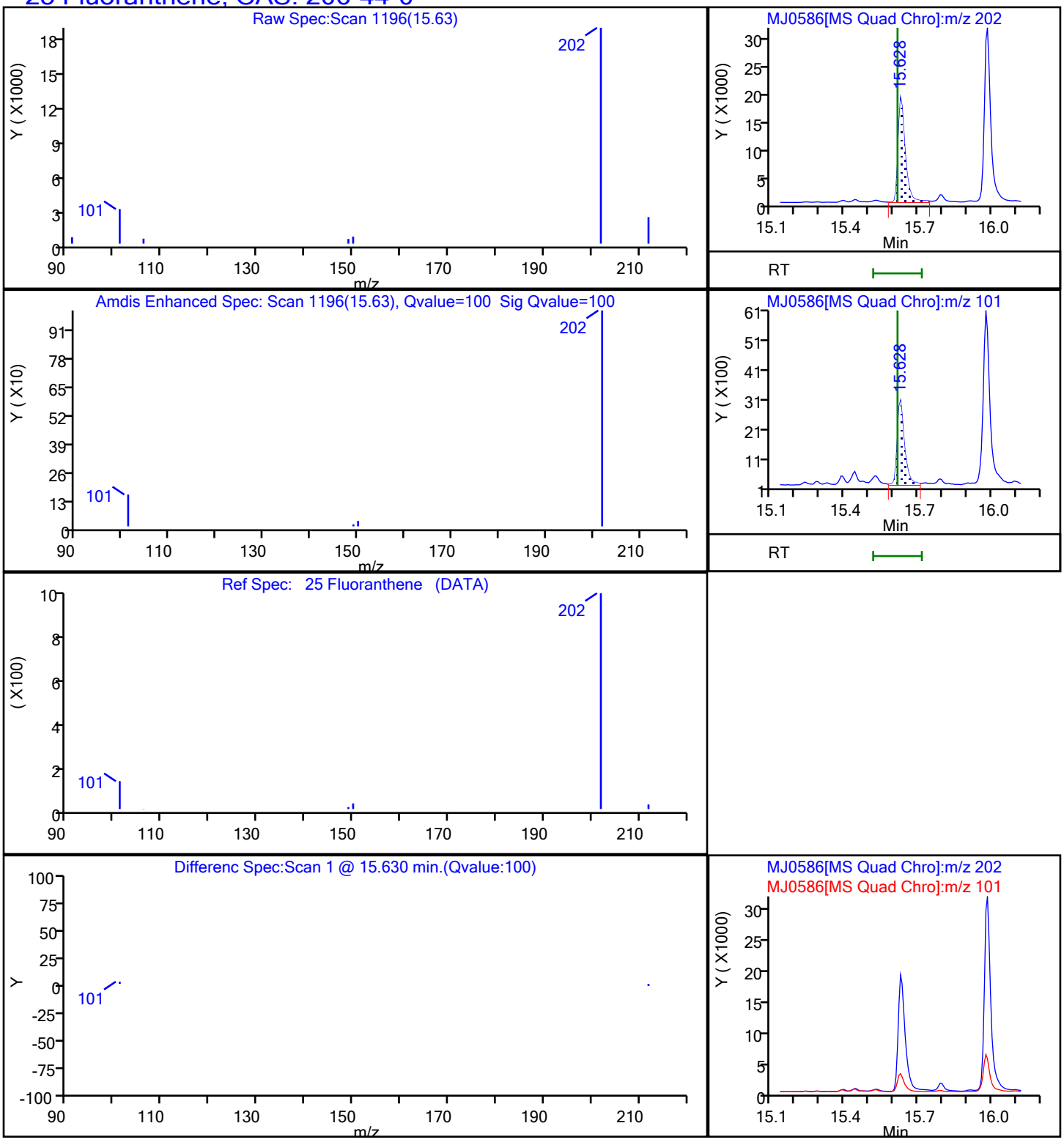
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0



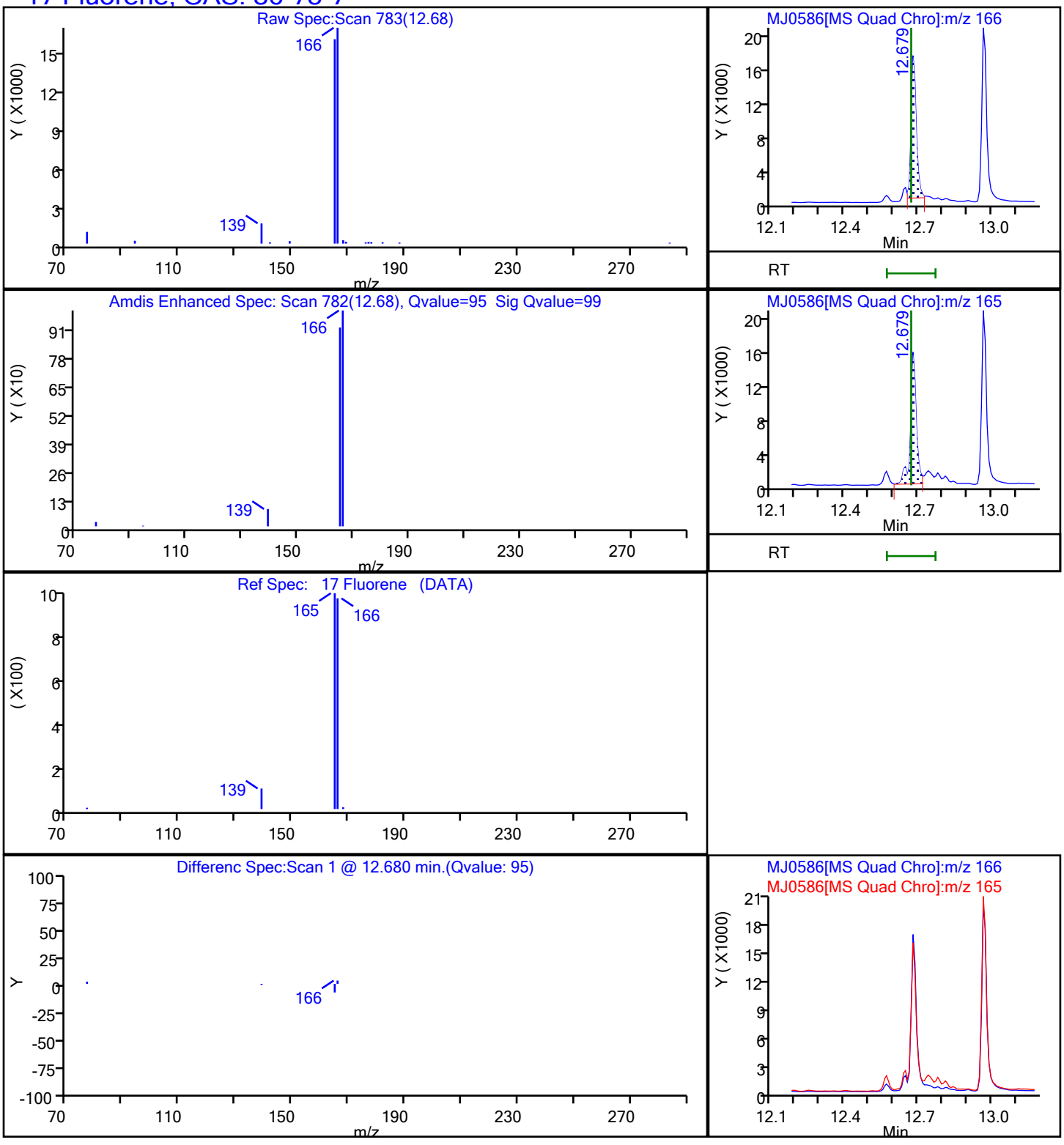
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
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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



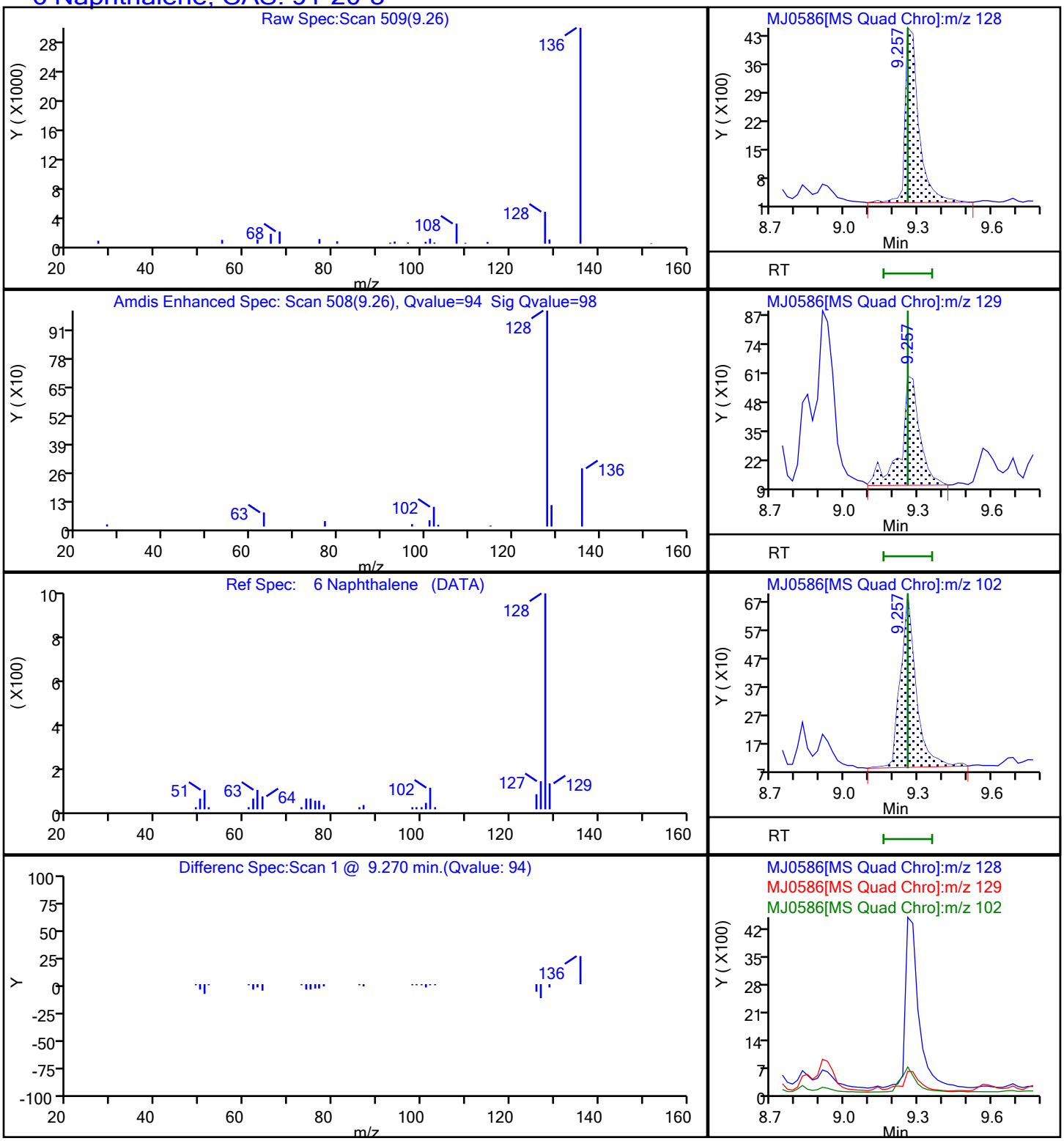
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
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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		

6 Naphthalene, CAS: 91-20-3



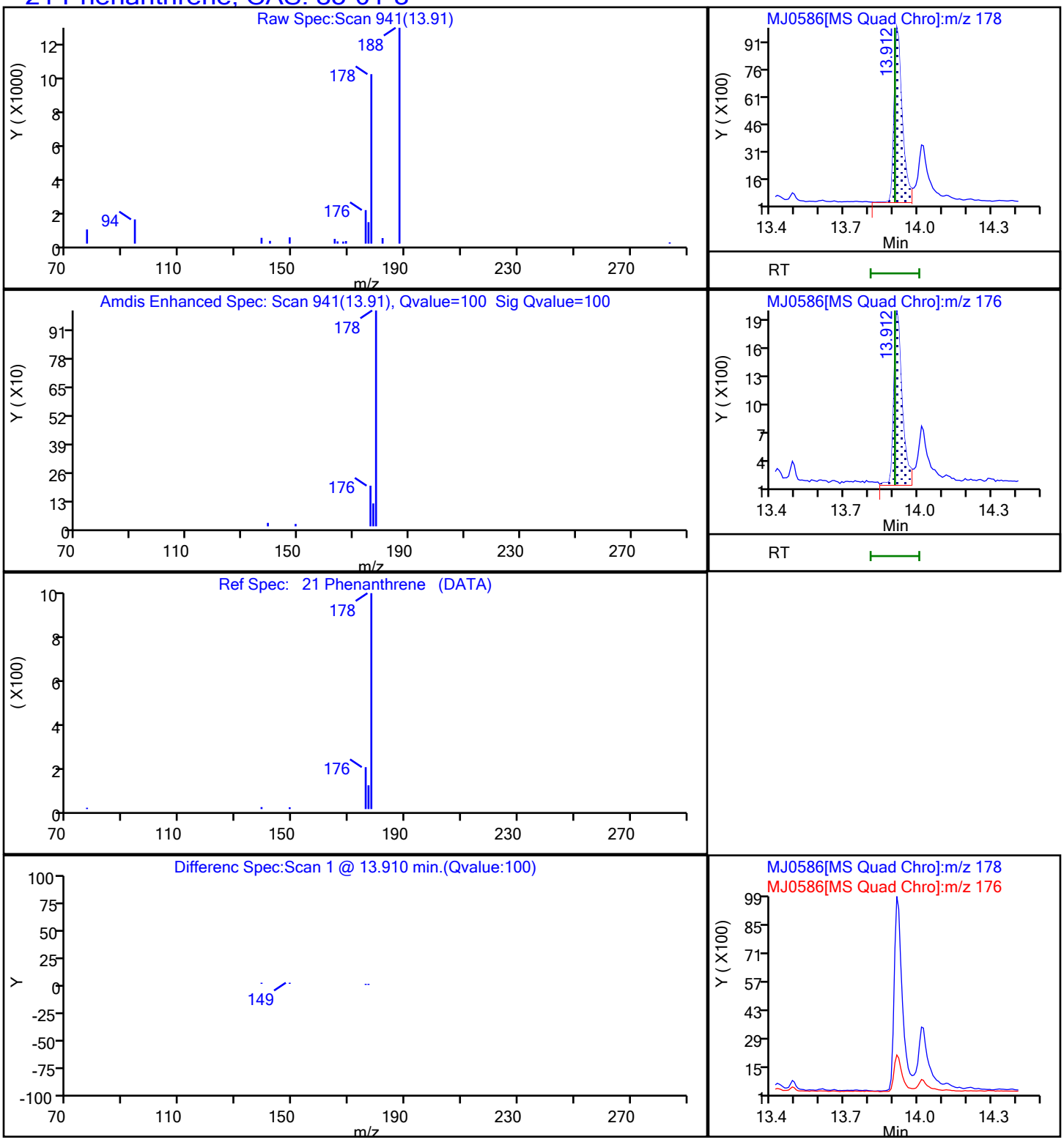
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
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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



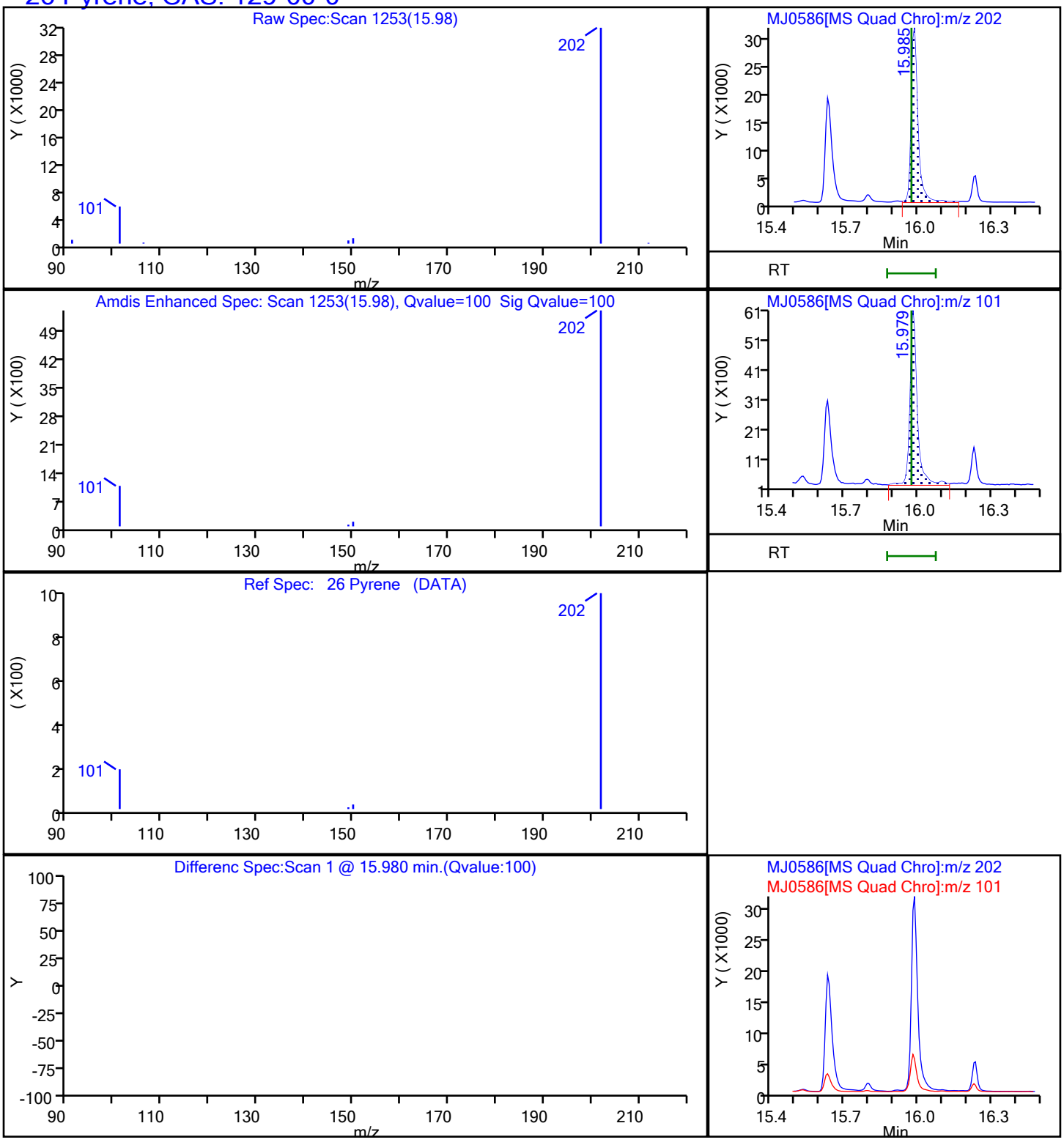
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Eurofins Lancaster Laboratories Env, LLC

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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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

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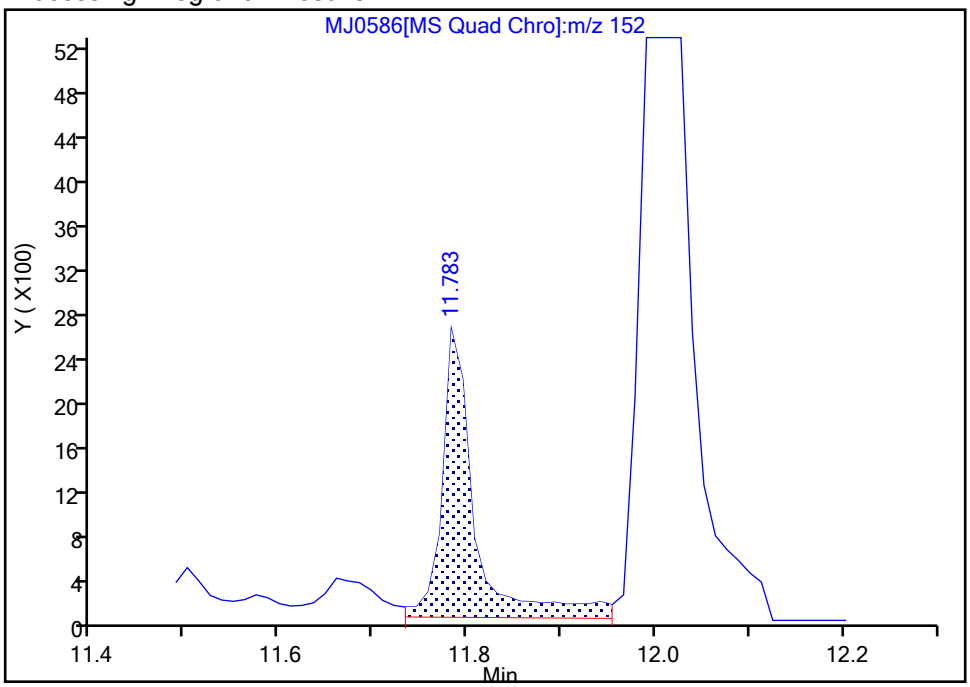
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

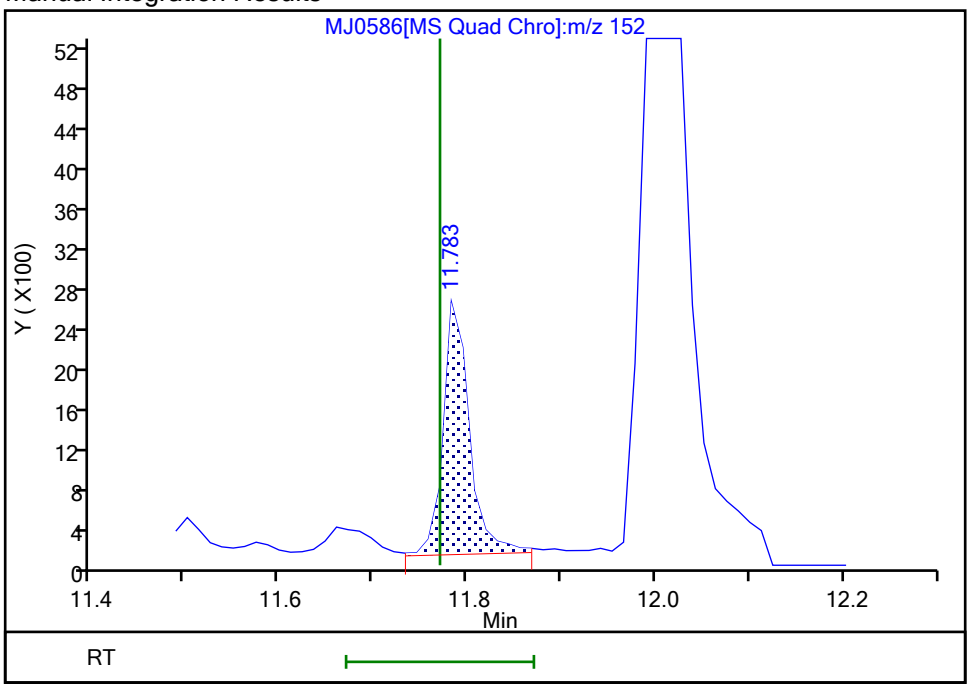
Processing Integration Results

RT: 11.78
Area: 6275
Amount: 0.007379
Amount Units: ug/ml



Manual Integration Results

RT: 11.78
Area: 4903
Amount: 0.005765
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:52:54

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Lancaster Laboratories Env, LLC

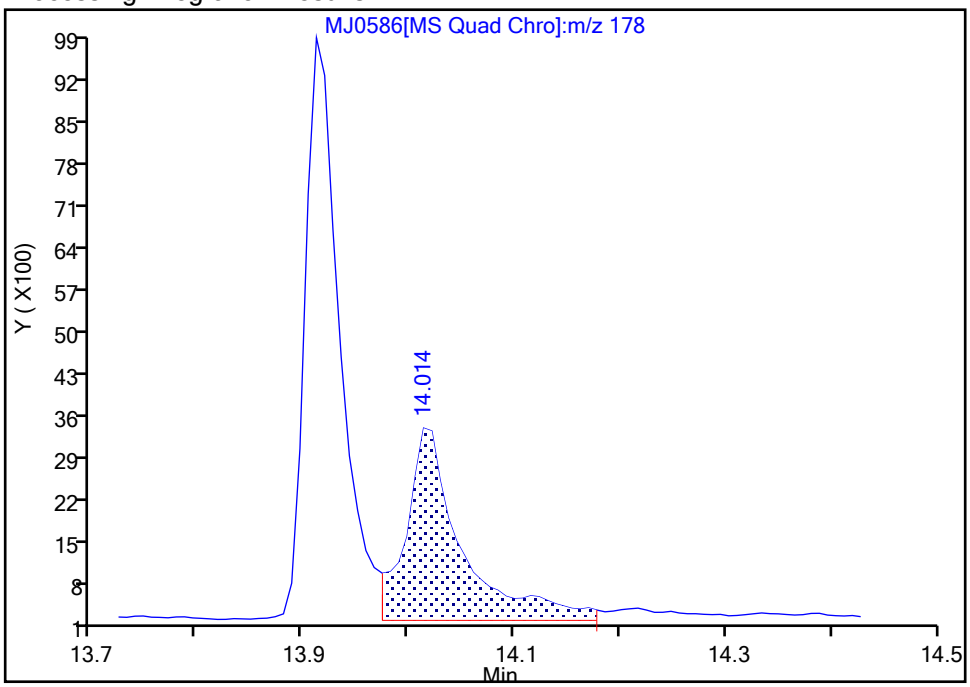
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Client ID:	MW-11S-20210929				
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

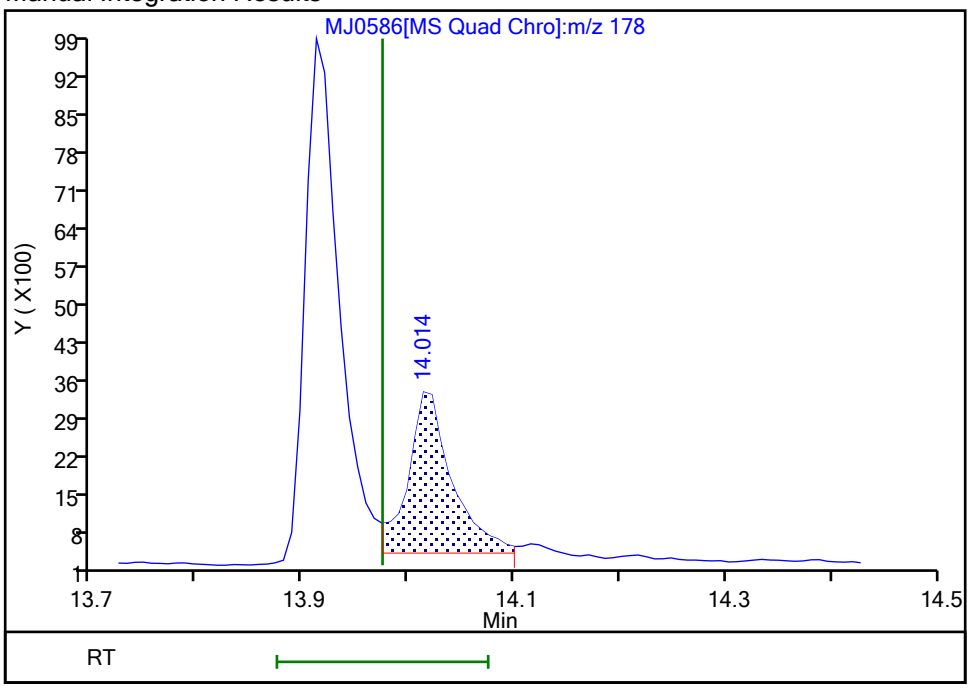
Processing Integration Results

RT: 14.01
Area: 11602
Amount: 0.014392
Amount Units: ug/ml



Manual Integration Results

RT: 14.01
Area: 8456
Amount: 0.010490
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:06
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

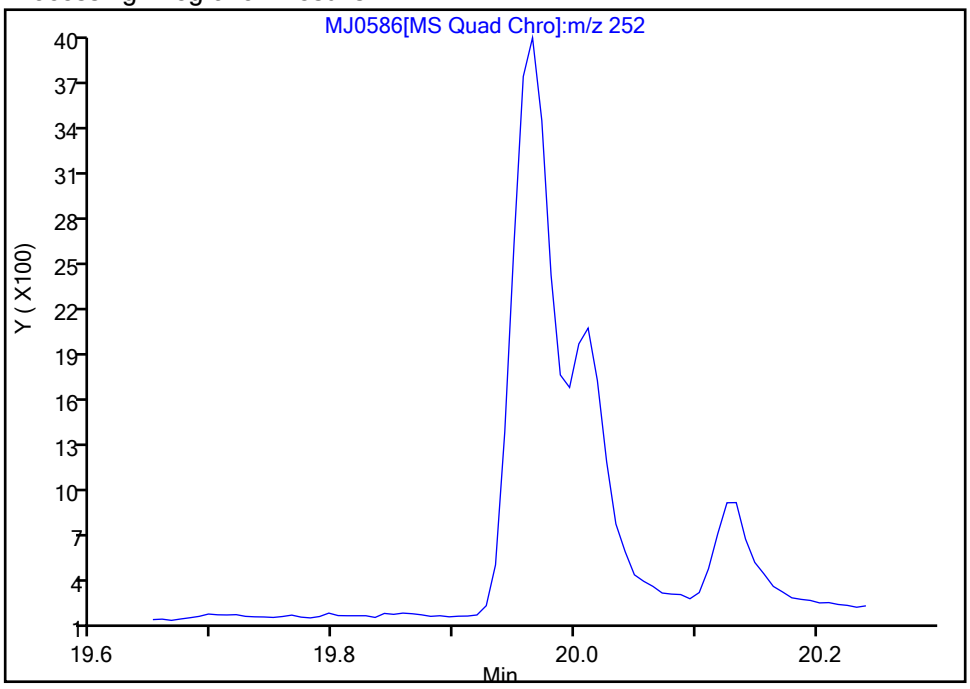
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Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

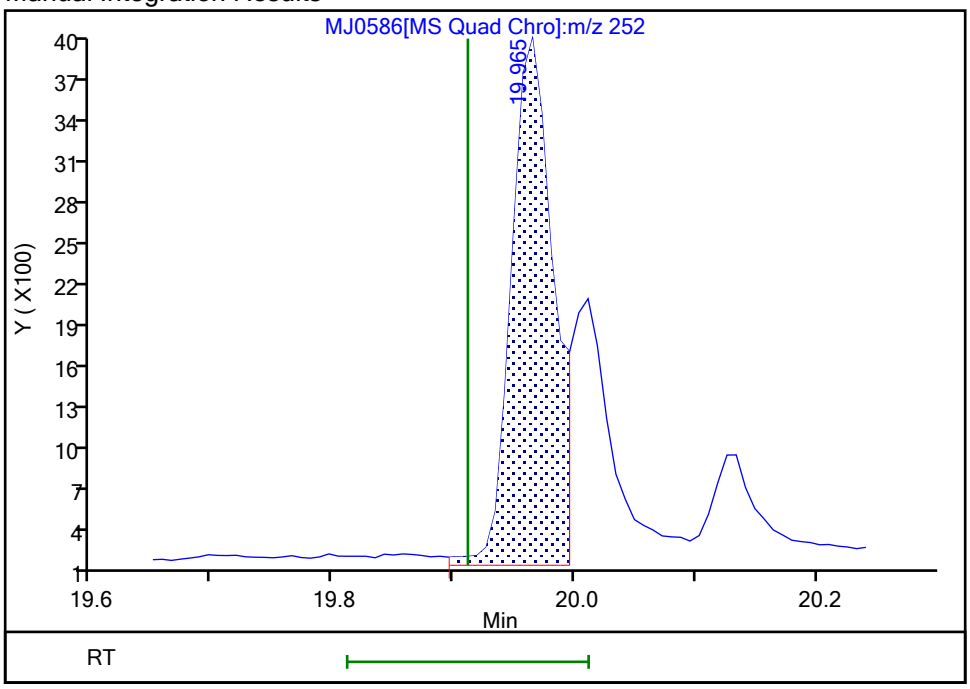
Not Detected
Expected RT: 19.91

Processing Integration Results



Manual Integration Results

RT: 19.96
Area: 9095
Amount: 0.010067
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:12
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

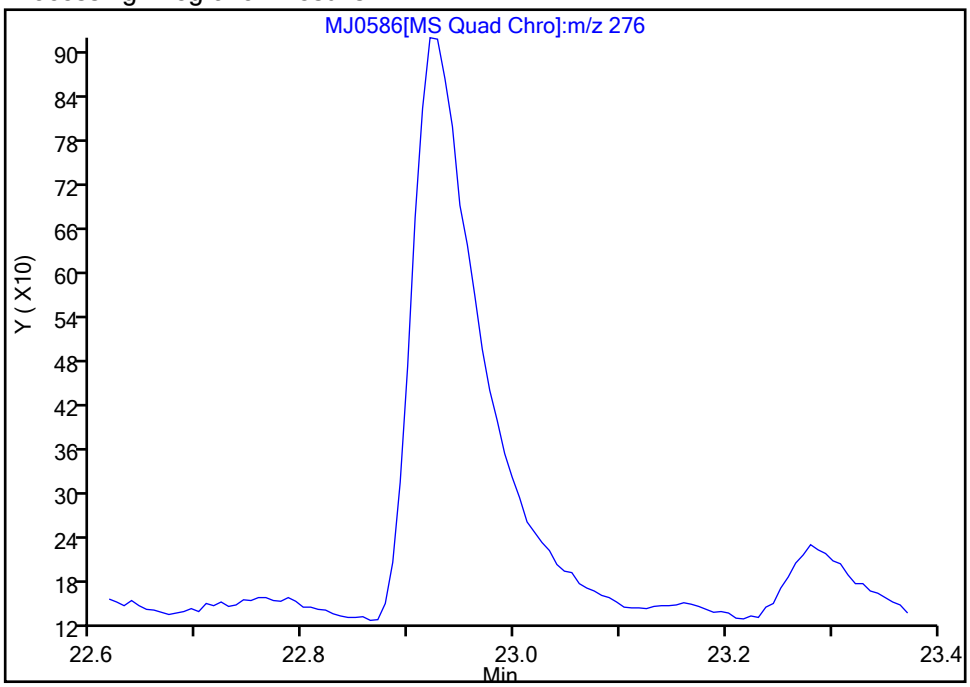
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

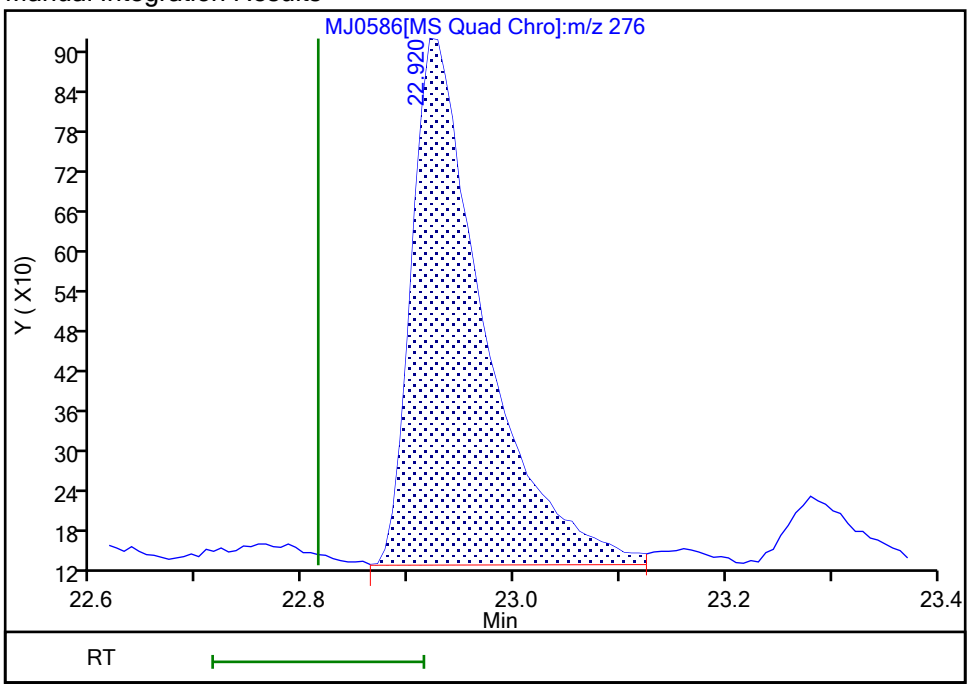
Not Detected
Expected RT: 22.81

Processing Integration Results



Manual Integration Results

RT: 22.92
Area: 3772
Amount: 0.004566
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

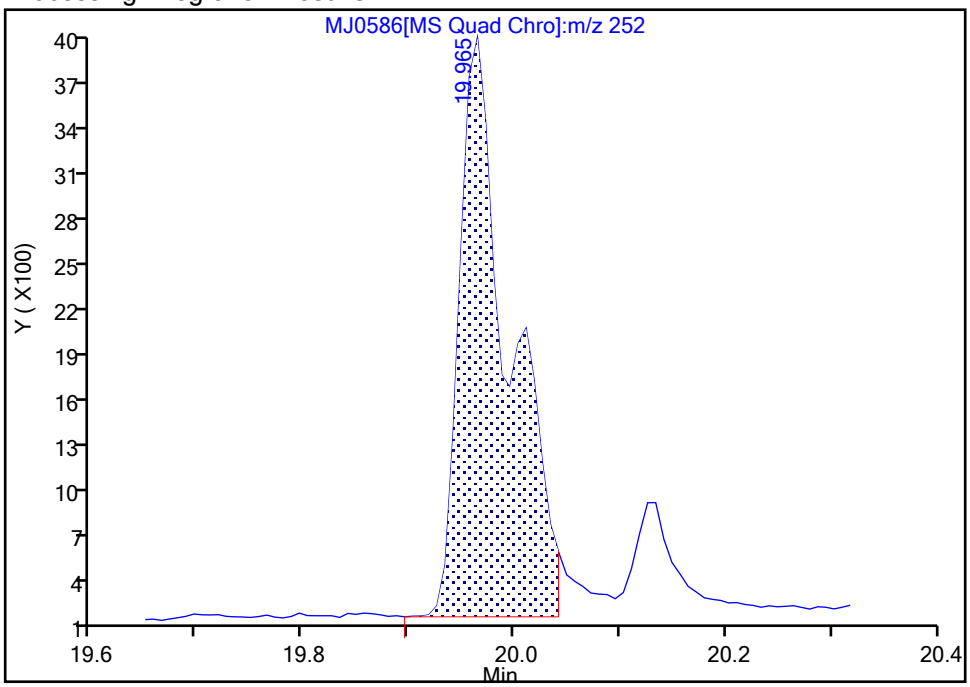
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

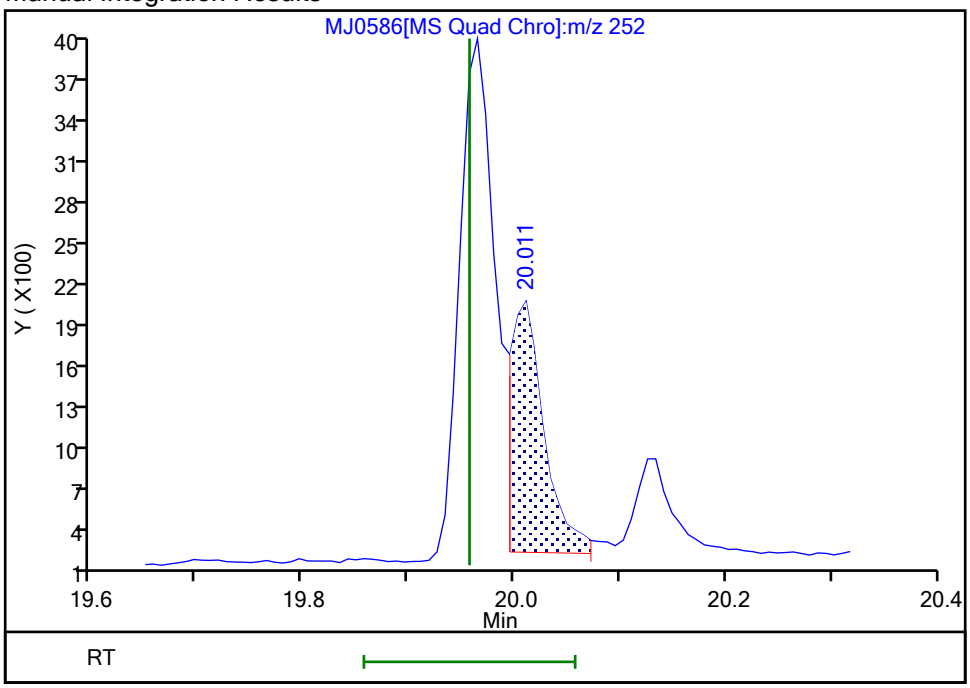
Processing Integration Results

RT: 19.96
Area: 12301
Amount: 0.012762
Amount Units: ug/ml



Manual Integration Results

RT: 20.01
Area: 3701
Amount: 0.003840
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:18

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

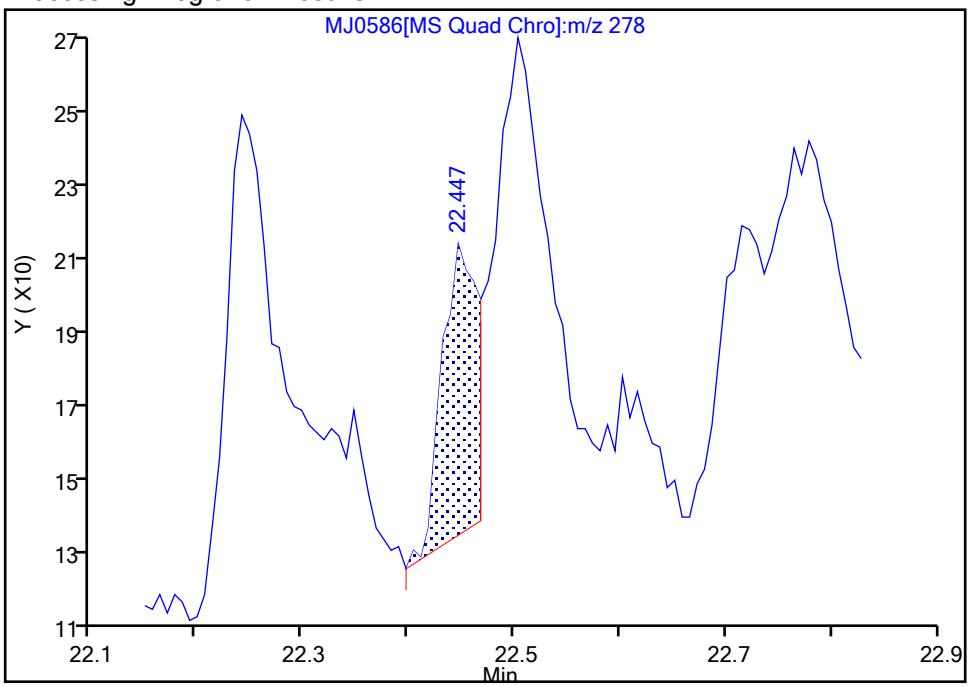
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

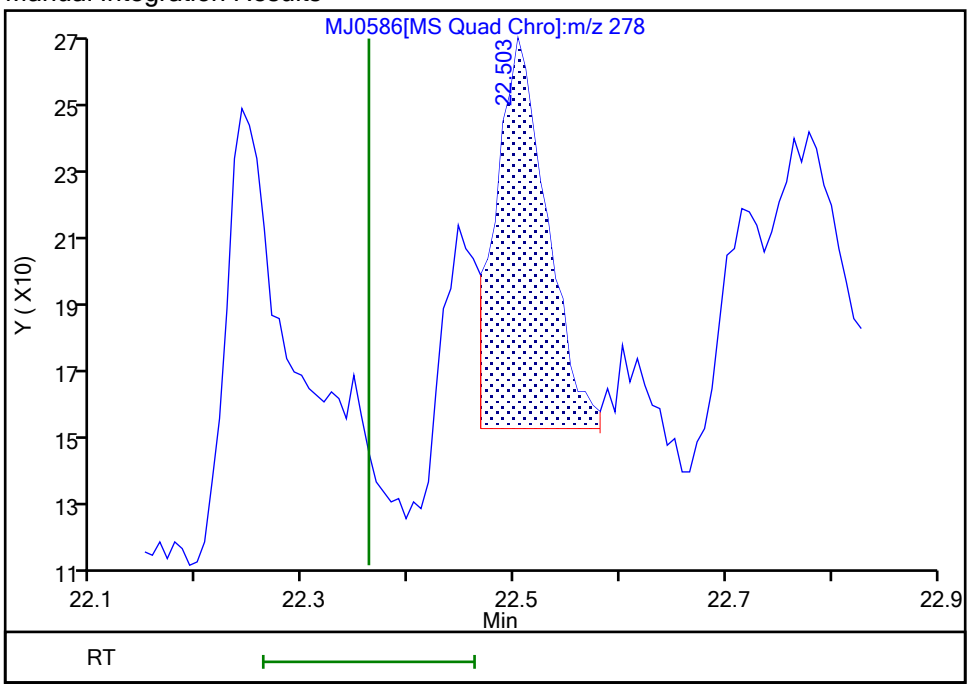
Processing Integration Results

RT: 22.45
Area: 172
Amount: 0.000220
Amount Units: ug/ml



Manual Integration Results

RT: 22.50
Area: 388
Amount: 0.000496
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:43

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

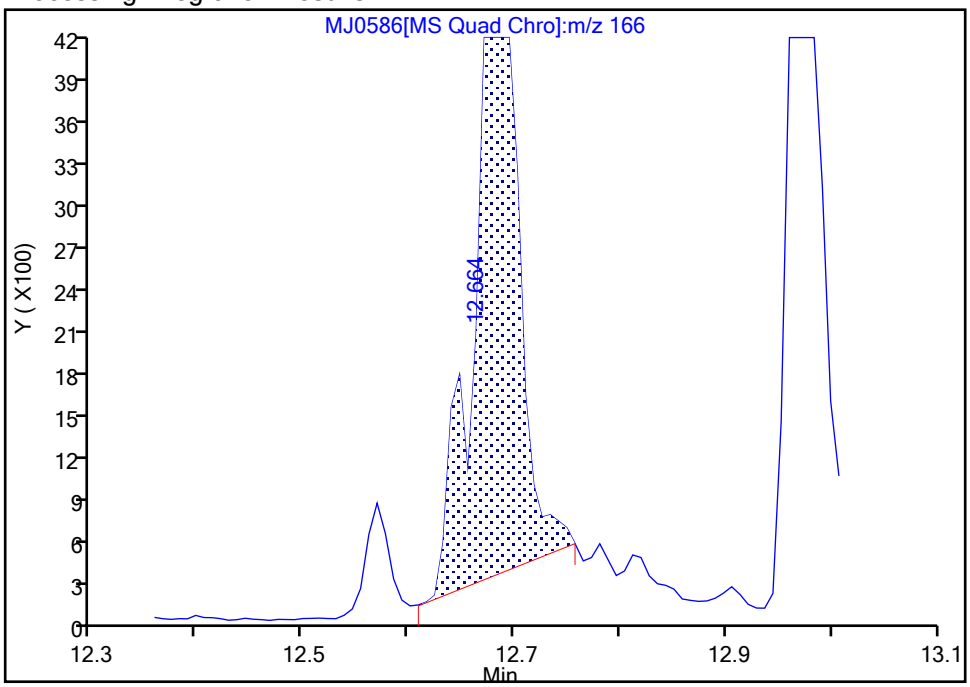
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

Signal: 1

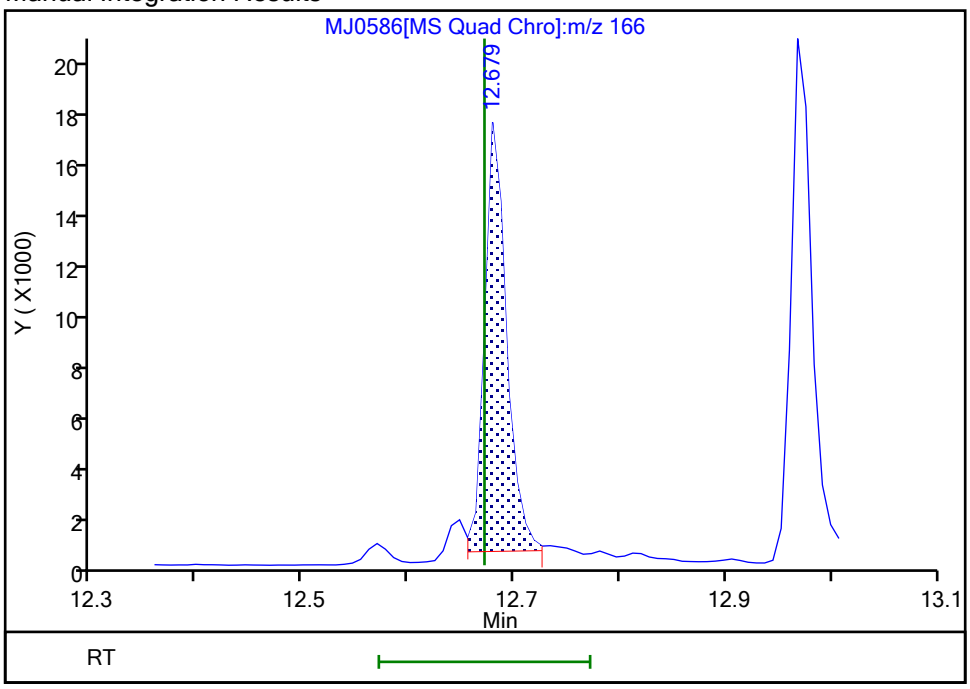
Processing Integration Results

RT: 12.66
Area: 26087
Amount: 0.042939
Amount Units: ug/ml



Manual Integration Results

RT: 12.68
Area: 23242
Amount: 0.038256
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:00

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

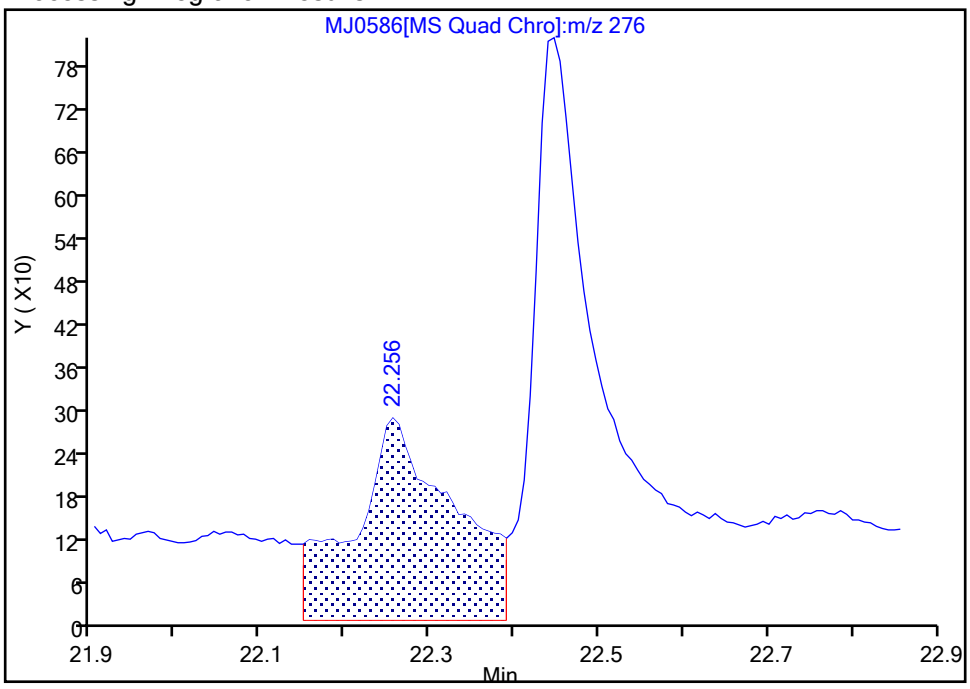
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Injection Date:	08-Oct-2021 16:20:21	Instrument ID:	HP21585		
Lims ID:	410-57303-A-13-A	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

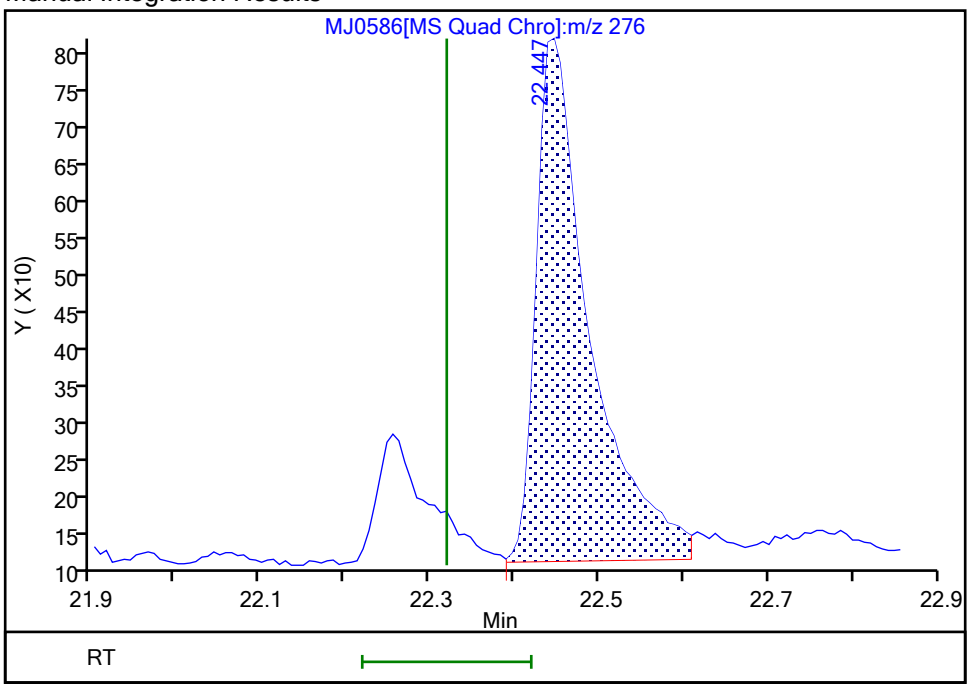
Processing Integration Results

RT: 22.26
Area: 2325
Amount: 0.003440
Amount Units: ug/ml



Manual Integration Results

RT: 22.45
Area: 3100
Amount: 0.004586
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:53:35

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-11S-20210929 RE Lab Sample ID: 410-57303-13 RE

Matrix: Ground Water Lab File ID: MJ0721.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 14:20

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 239.7(mL) Date Analyzed: 10/12/2021 13:30

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.: 181586 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*3.1*	*H*	*0.052*	*0.010*
208-96-8	*Acenaphthylene*	*0.10*	*H*	*0.052*	*0.010*
120-12-7	*Anthracene*	*0.075*	*H*	*0.052*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.18*	*H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.11*	*H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.11*	*H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.056*	*H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.045*	*J H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*0.17*	*H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.57*	*H*	*0.052*	*0.010*
86-73-7	*Fluorene*	*0.11*	*H*	*0.052*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.059*	*H*	*0.052*	*0.021*
91-20-3	*Naphthalene*	*0.22*	*H*	*0.073*	*0.031*
85-01-8	*Phenanthrene*	*0.16*	*H*	*0.073*	*0.031*
129-00-0	*Pyrene*	*0.72*	*H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	67		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		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\HP21585\20211012-41301.b\MJ0721.D
Lims ID: 410-57303-B-13-A RE
Client ID: MW-11S-20210929
Sample Type: Client
Inject. Date: 12-Oct-2021 13:30:07 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-13-A
Misc. Info.: 410-0041301-012
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:22:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	96	65291	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	242945	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	94	58612	0.0519	M
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	79365	0.1688	
12 Acenaphthylene	152	11.783	11.782	0.000	100	25218	0.0239	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	92	125767	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	92	477232	0.7454	
17 Fluorene	166	12.679	12.679	0.000	99	20018	0.0266	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	95	208231	0.2500	
21 Phenanthrene	178	13.912	13.912	-0.001	100	40951	0.0379	
22 Anthracene	178	13.990	13.983	-0.001	100	17739	0.0180	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.605	-0.001	100	174320	0.2114	
25 Fluoranthene	202	15.628	15.628	0.000	100	155454	0.1365	
26 Pyrene	202	15.985	15.979	0.000	100	217682	0.1735	M
28 Benzo[a]anthracene	228	18.040	18.040	0.008	100	48097	0.0443	
* 29 Chrysene-d12	240	18.055	18.055	0.000	59	188990	0.2500	
30 Chrysene	228	18.101	18.109	0.000	100	48329	0.0401	
33 Benzo[b]fluoranthene	252	19.942	19.957	0.023	100	29603	0.0257	
34 Benzo[k]fluoranthene	252	19.988	20.003	0.015	100	13202	0.0108	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.433	0.008	100	120967	0.1678	
37 Benzo[a]pyrene	252	20.471	20.471	0.007	100	27577	0.0257	
* 38 Perylene-d12	264	20.555	20.556	-0.001	99	202646	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.390	22.390	0.056	98	12118	0.0141	M
42 Benzo[g,h,i]perylene	276	22.878	22.844	0.043	100	14165	0.0135	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

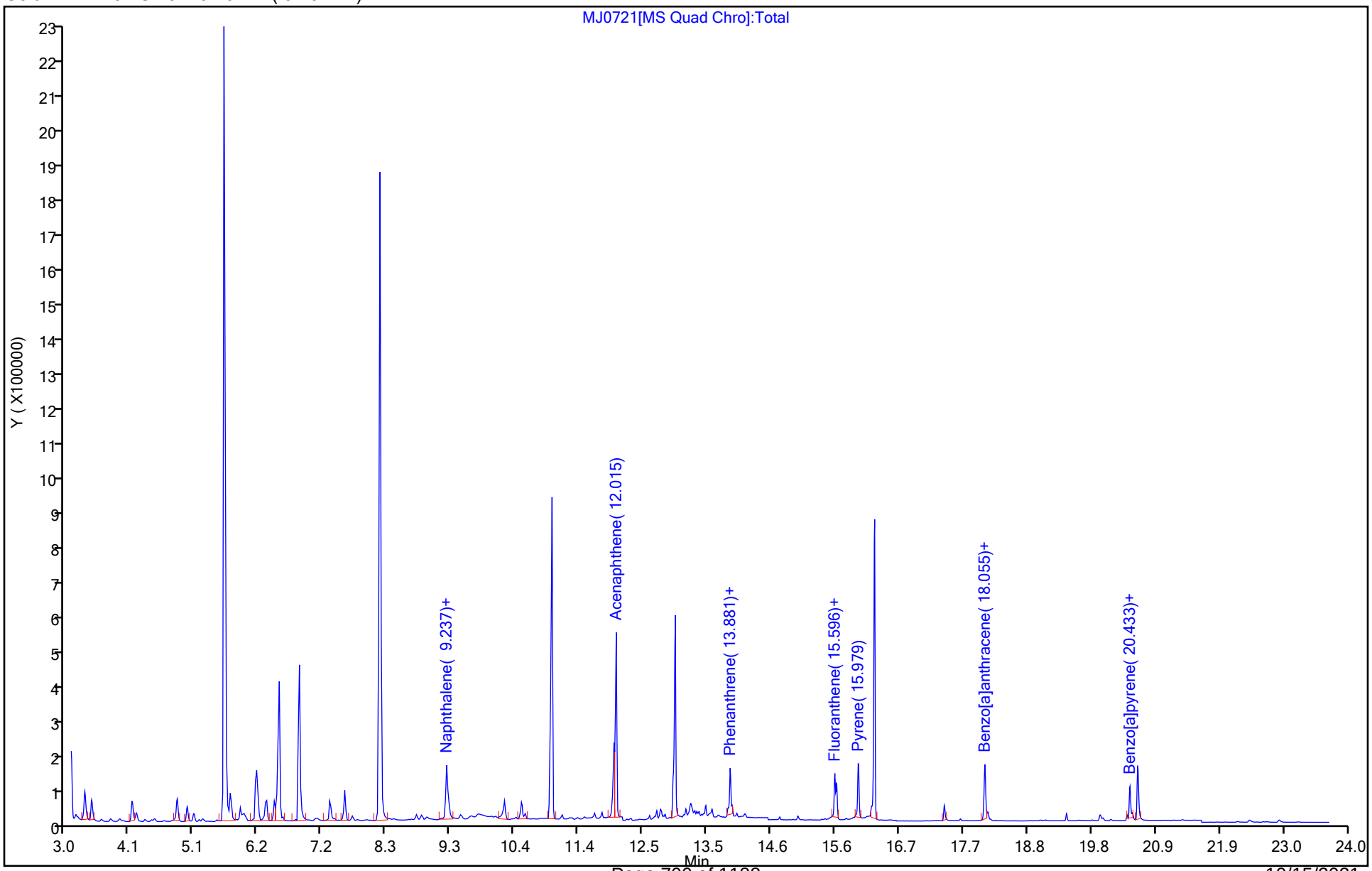
Report Date: 13-Oct-2021 08:30:54 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13	Worklist Smp#:	12
Client ID:	MW-11S-20210929				
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)



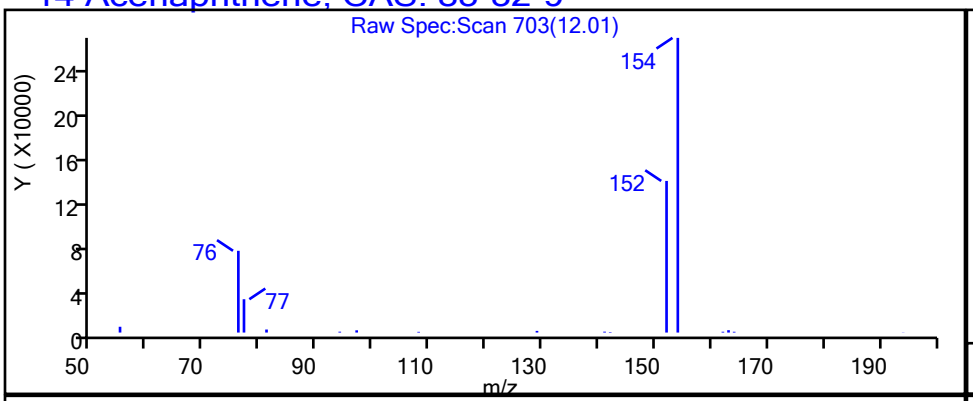
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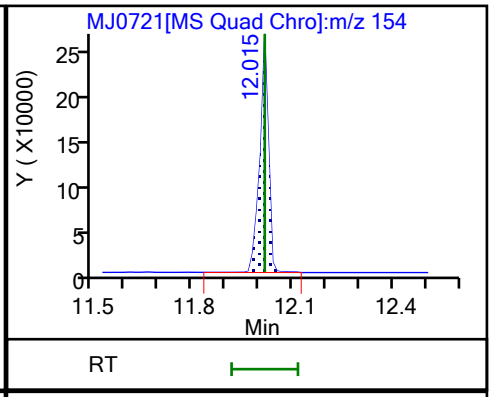
Eurofins Lancaster Laboratories Env, LLC

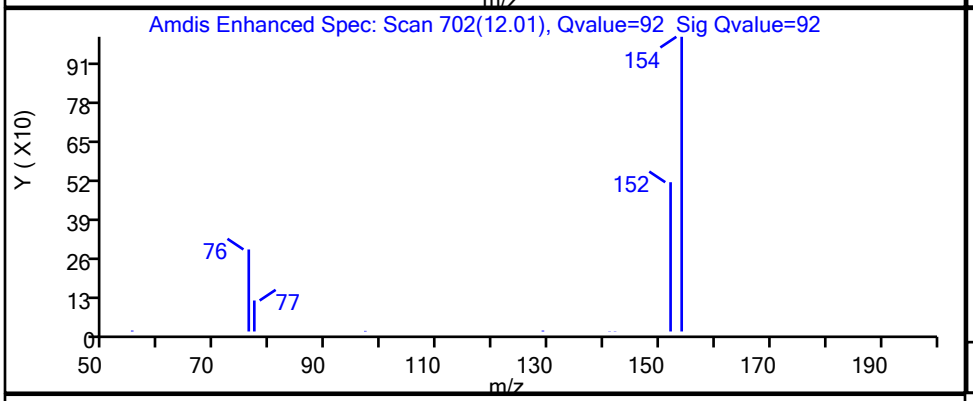
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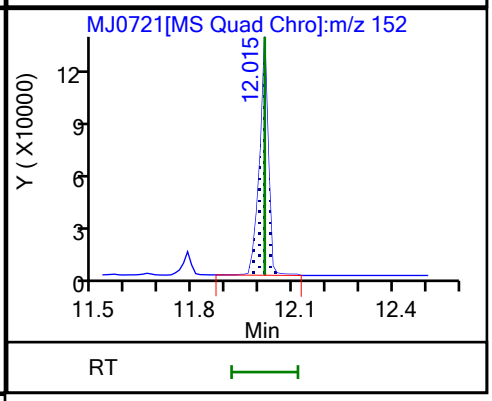
Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585		
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

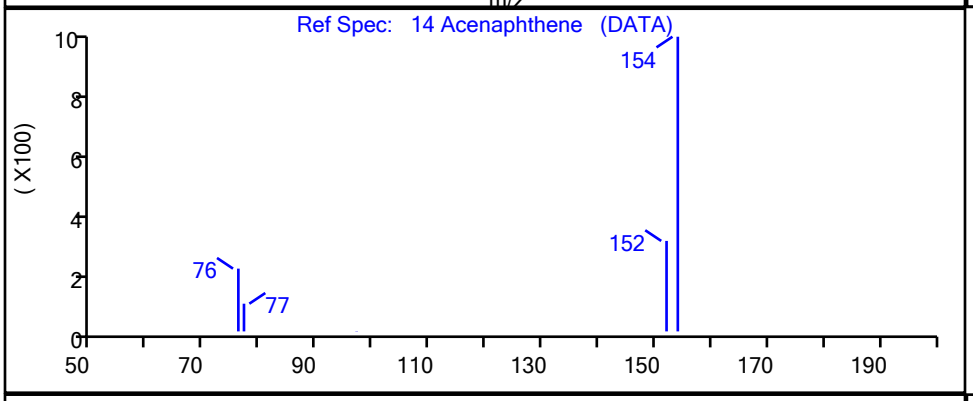
14 Acenaphthene, CAS: 83-32-9

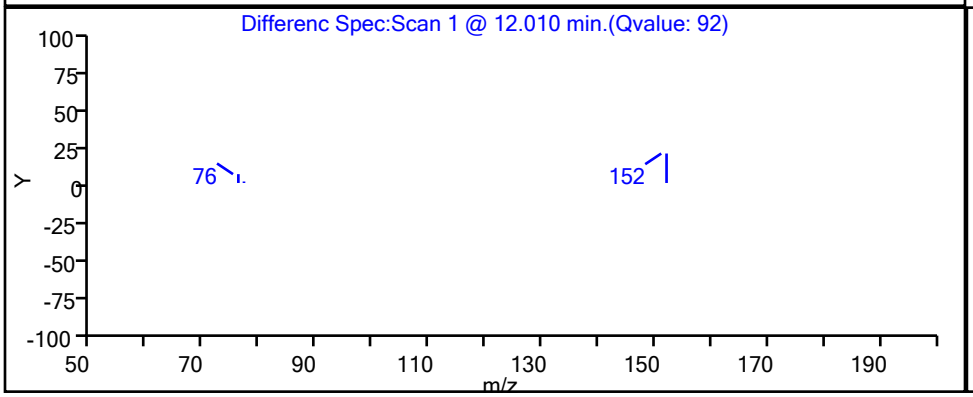


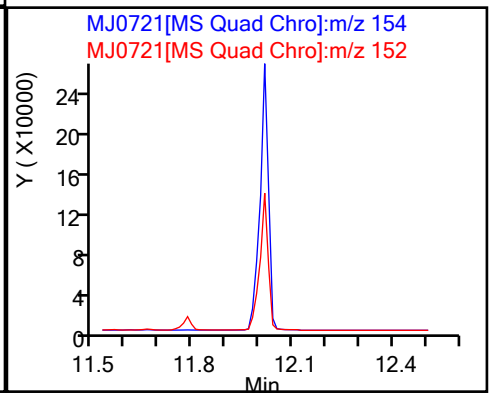










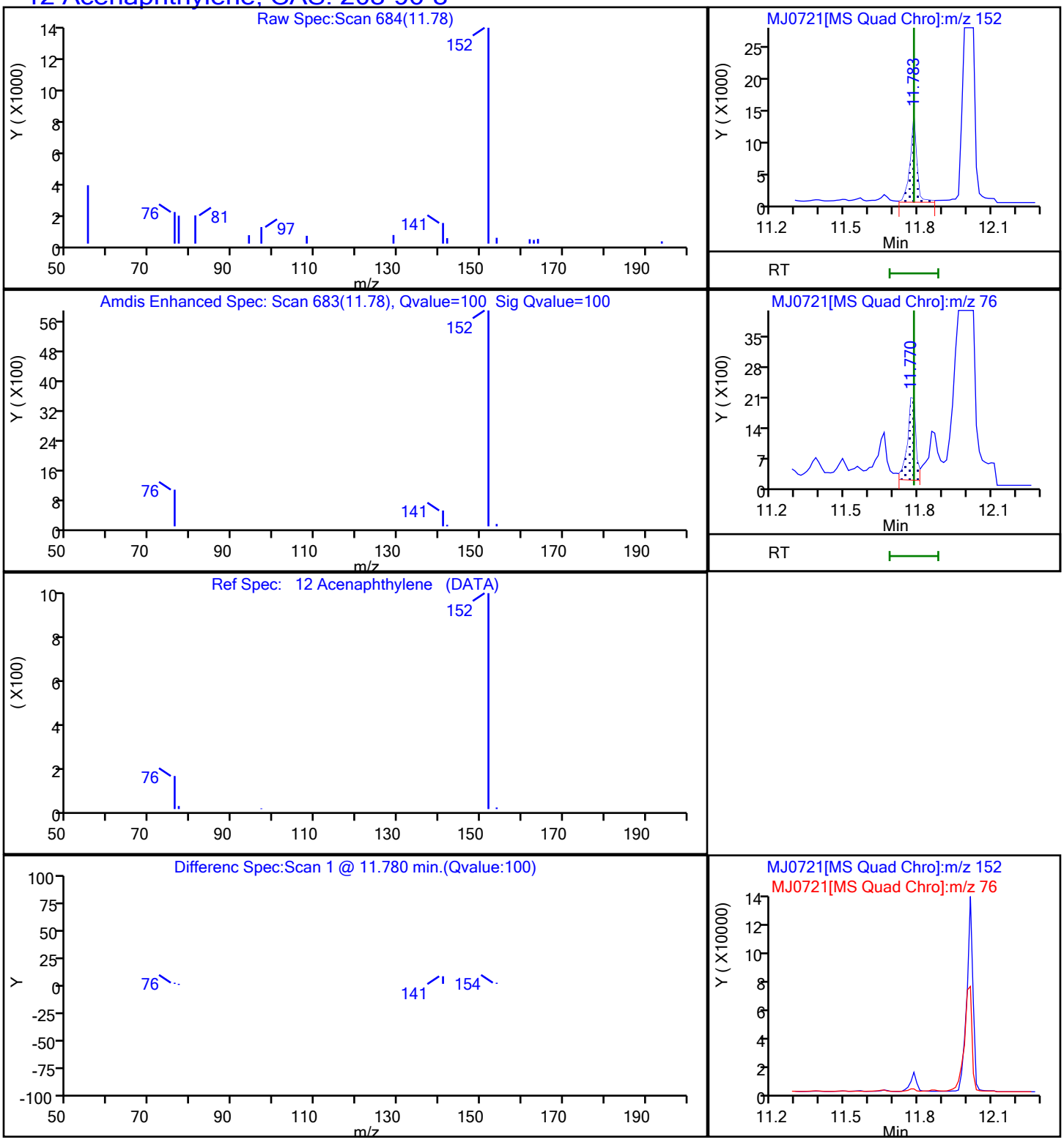


Report Date: 13-Oct-2021 08:30:54 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585		
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	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		

12 Acenaphthylene, CAS: 208-96-8

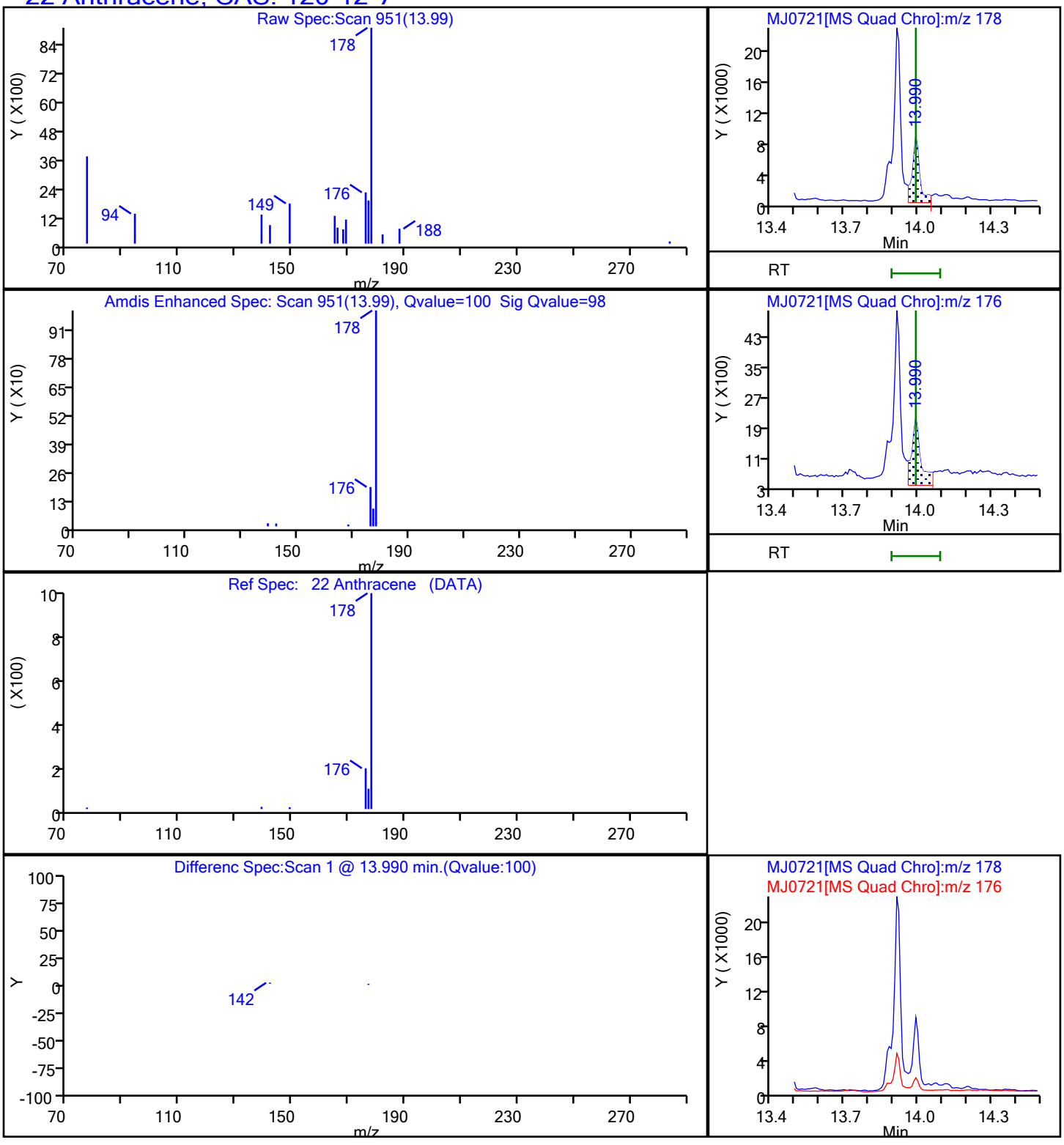


Report Date: 13-Oct-2021 08:30:54 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0721.D				
Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585		
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	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		

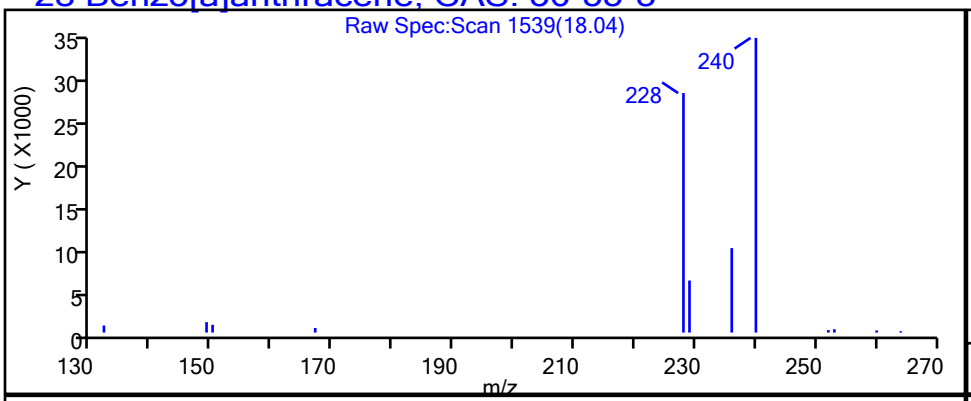
22 Anthracene, CAS: 120-12-7

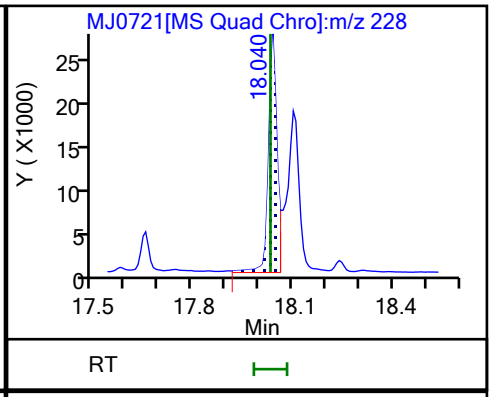


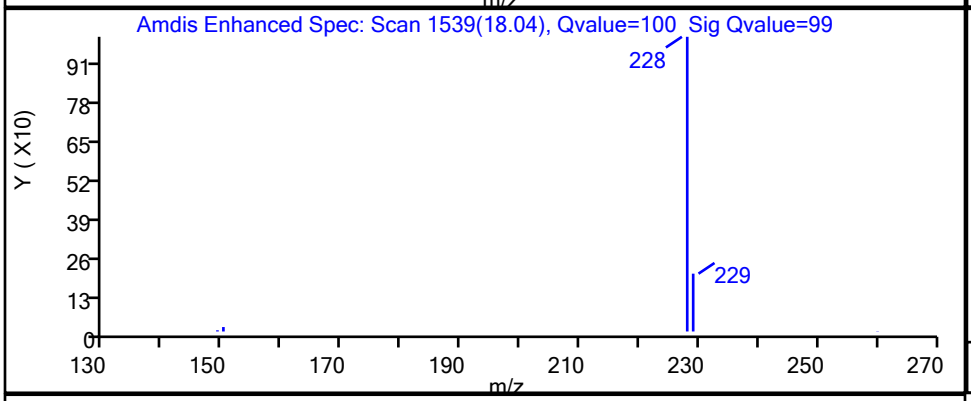
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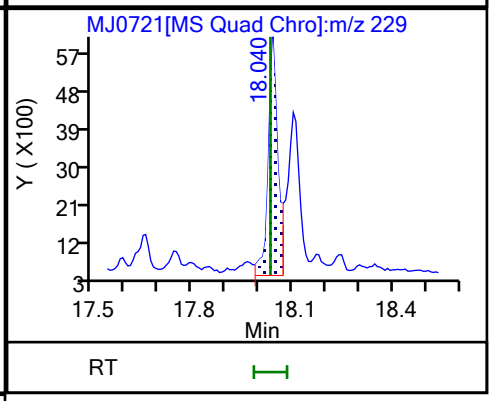
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Client ID:	MW-11S-20210929		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

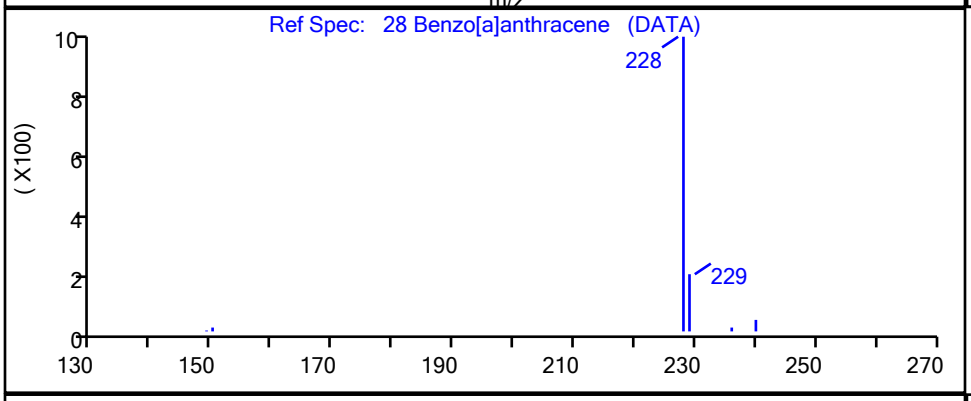
28 Benzo[a]anthracene, CAS: 56-55-3

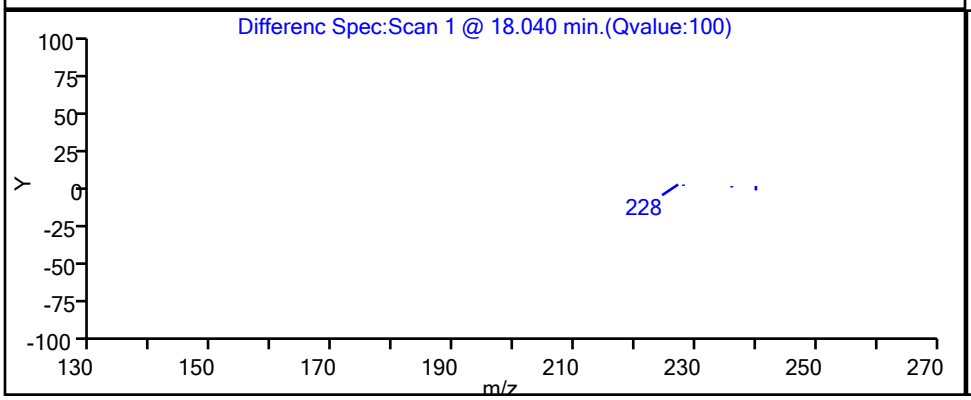


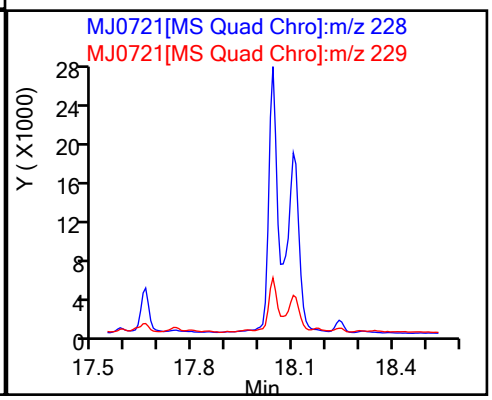










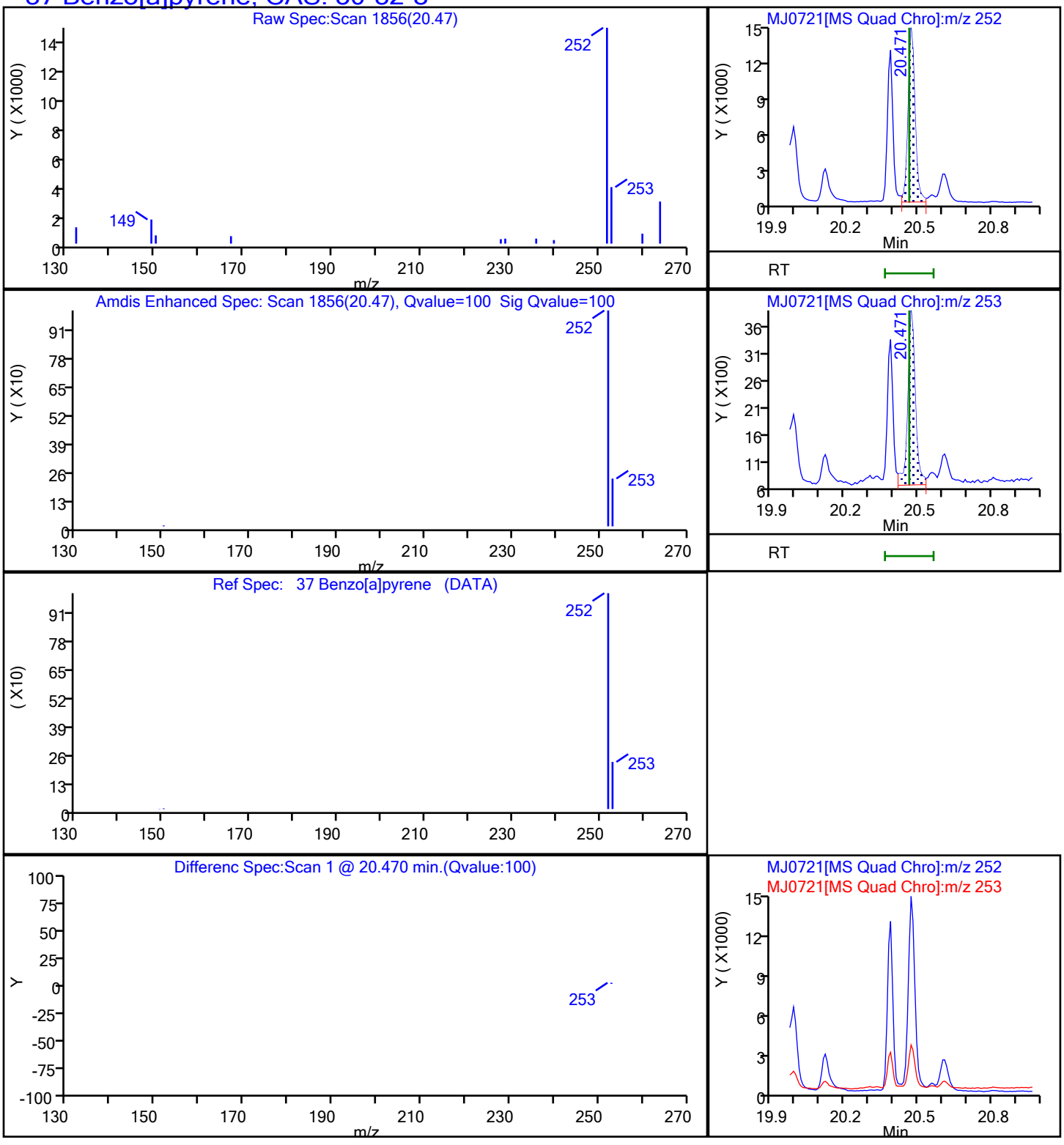


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Client ID:	MW-11S-20210929				
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

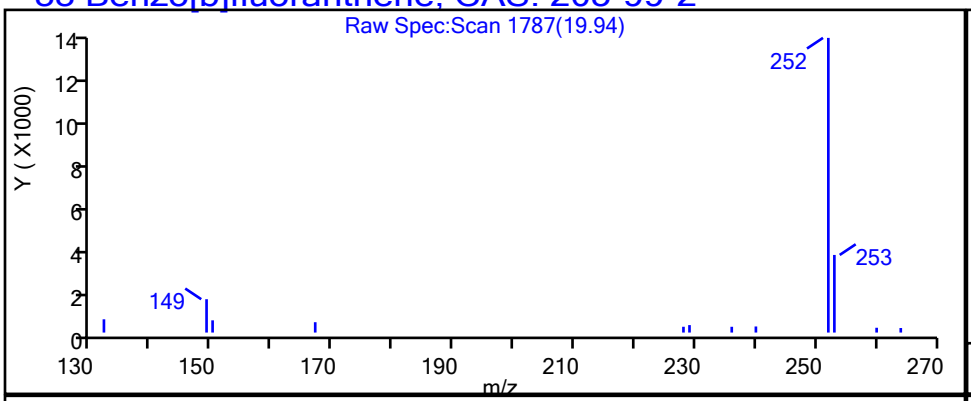


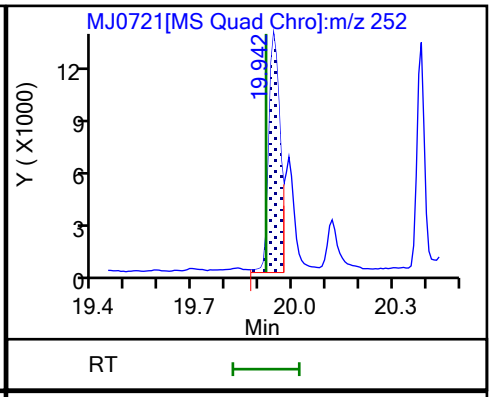
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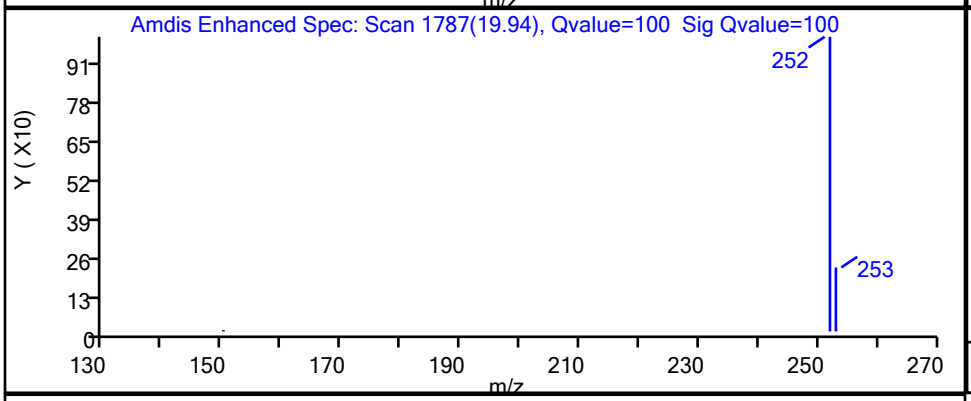
Eurofins Lancaster Laboratories Env, LLC

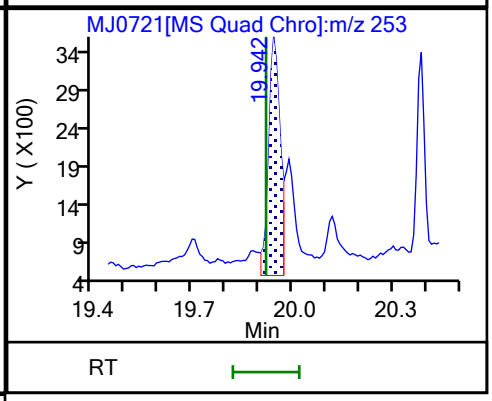
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Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
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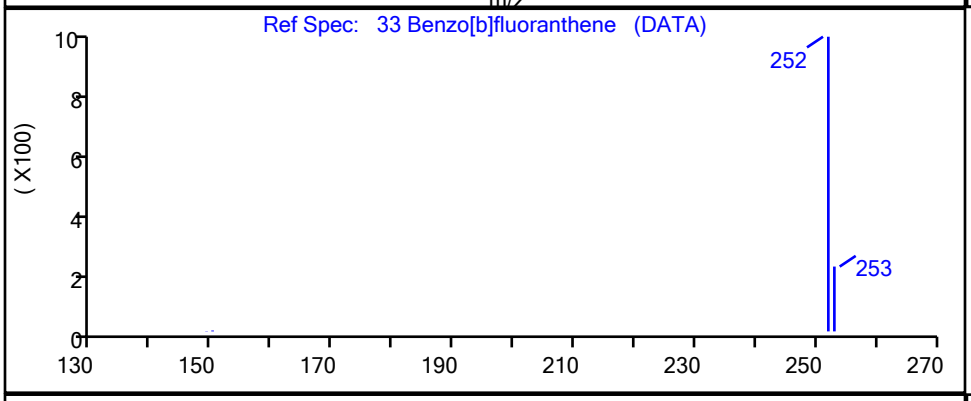
33 Benzo[b]fluoranthene, CAS: 205-99-2

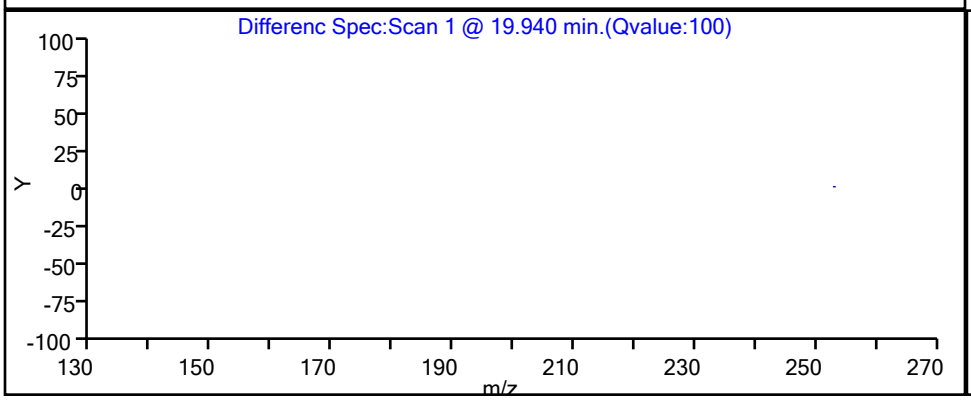


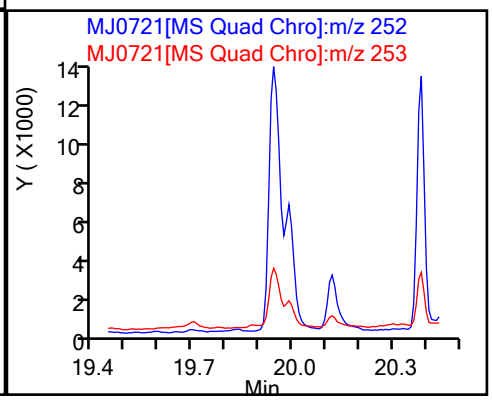










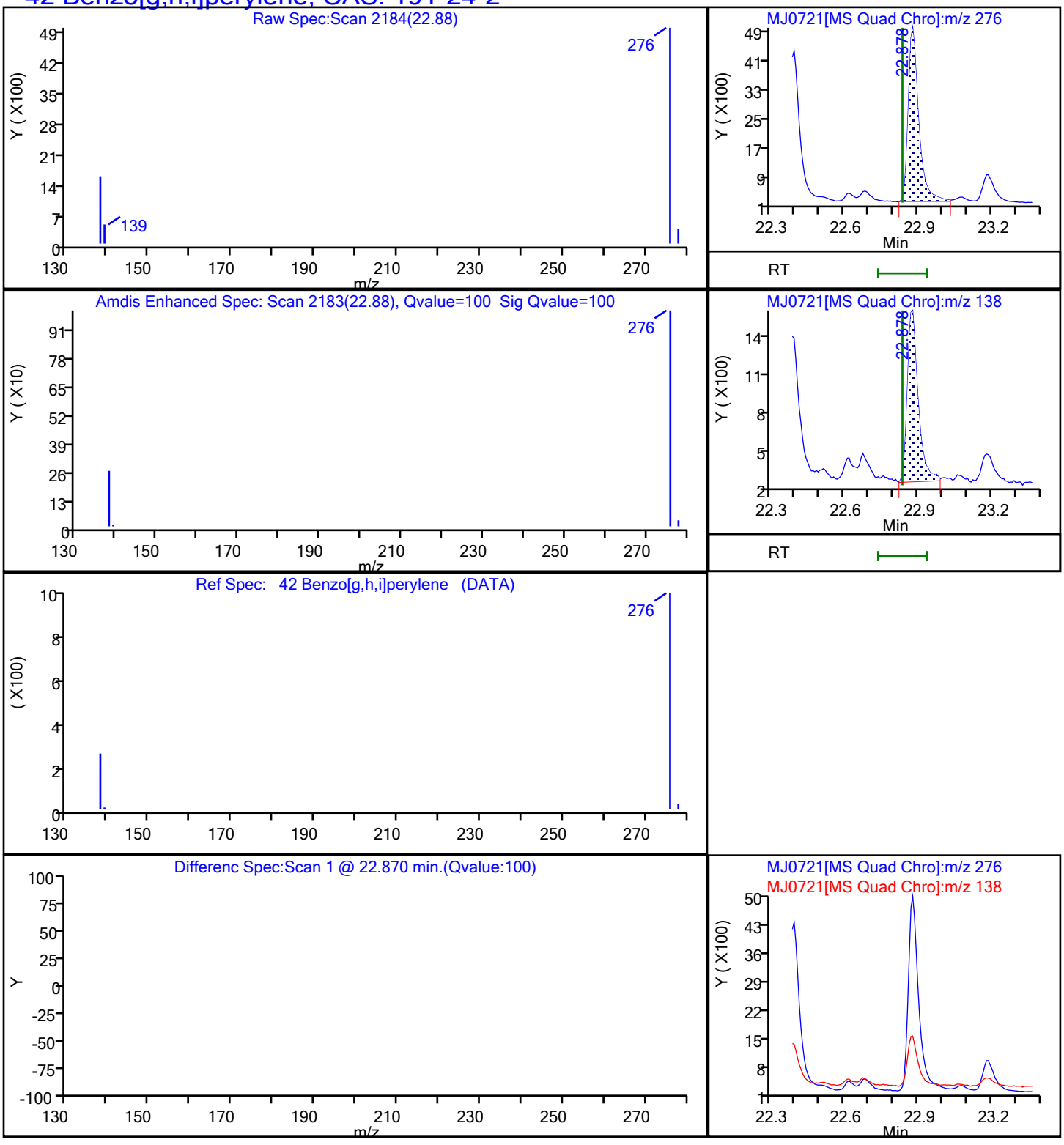


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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

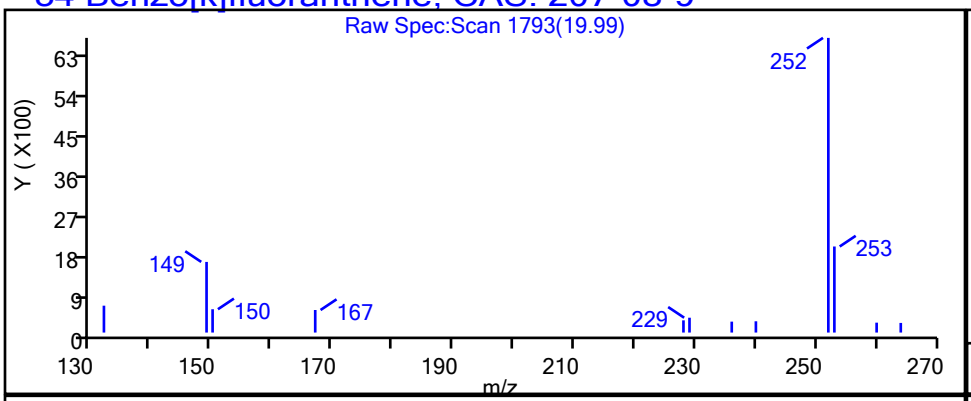


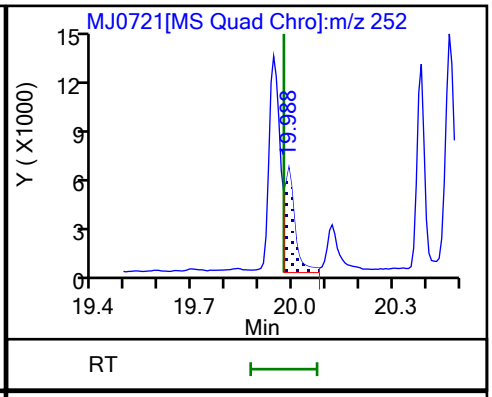
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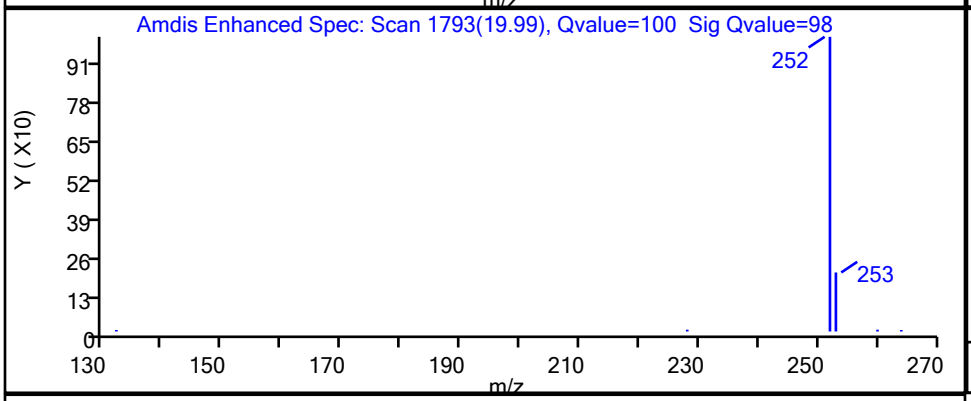
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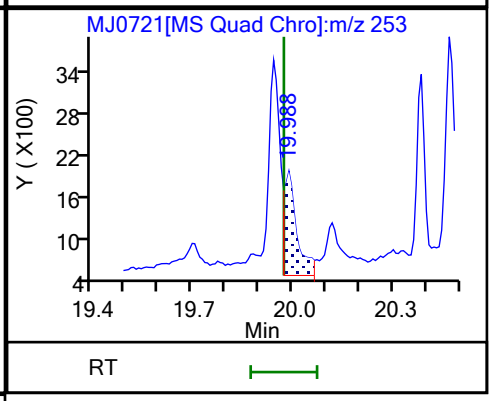
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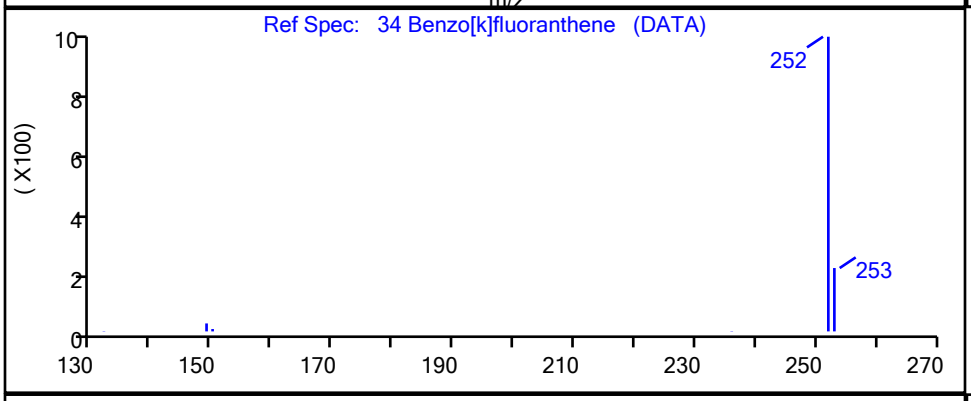
34 Benzo[k]fluoranthene, CAS: 207-08-9

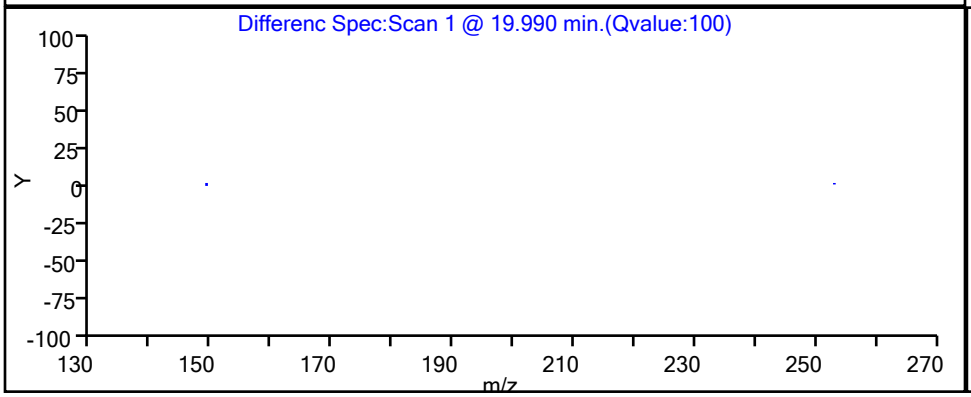


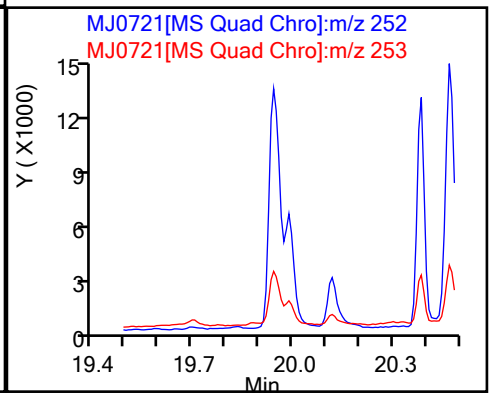








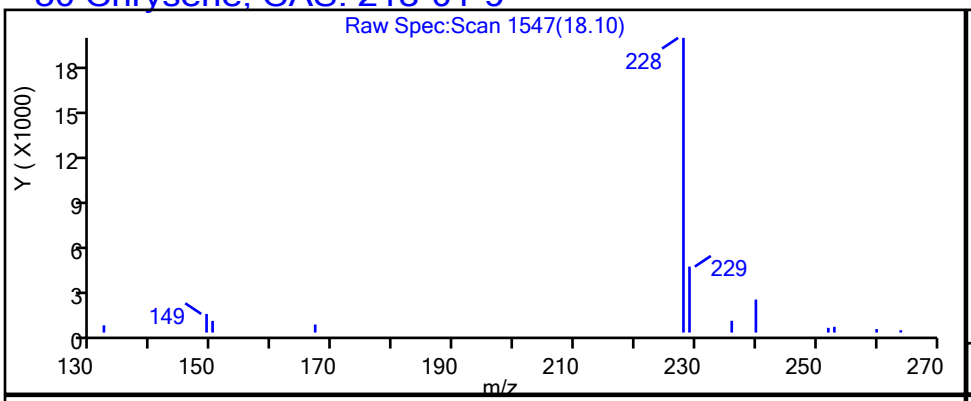


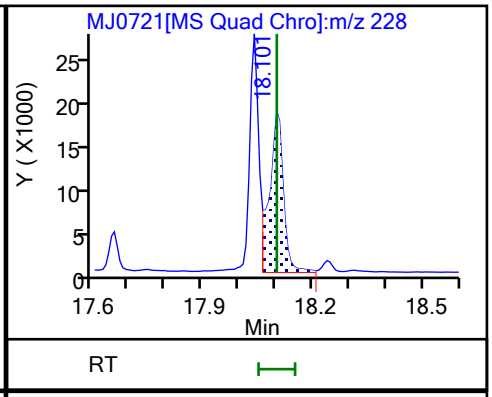


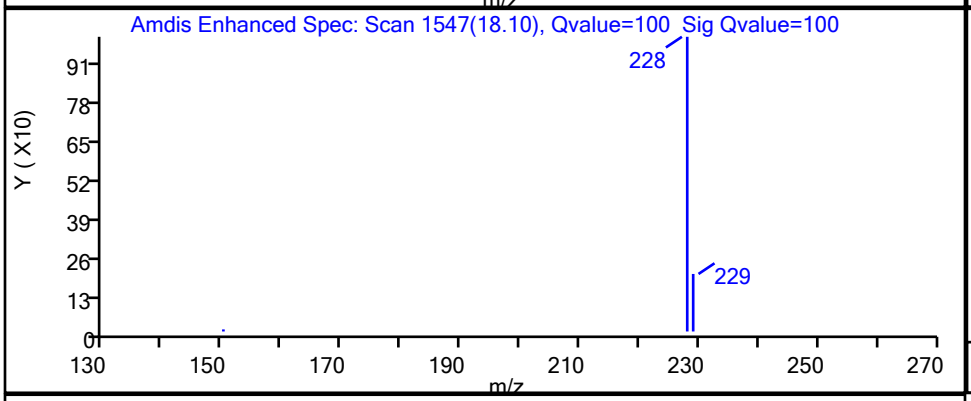
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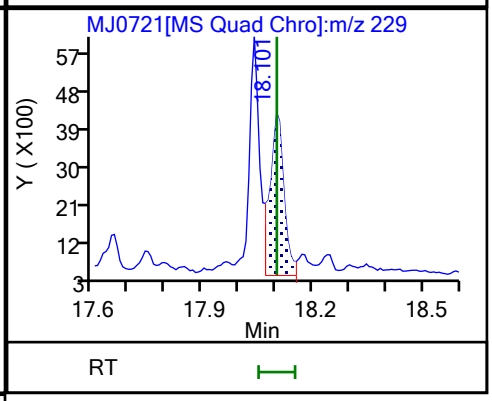
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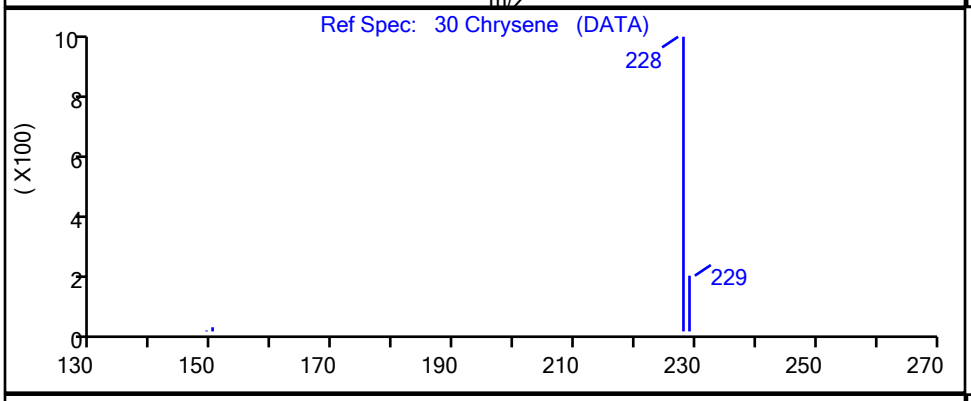
30 Chrysene, CAS: 218-01-9

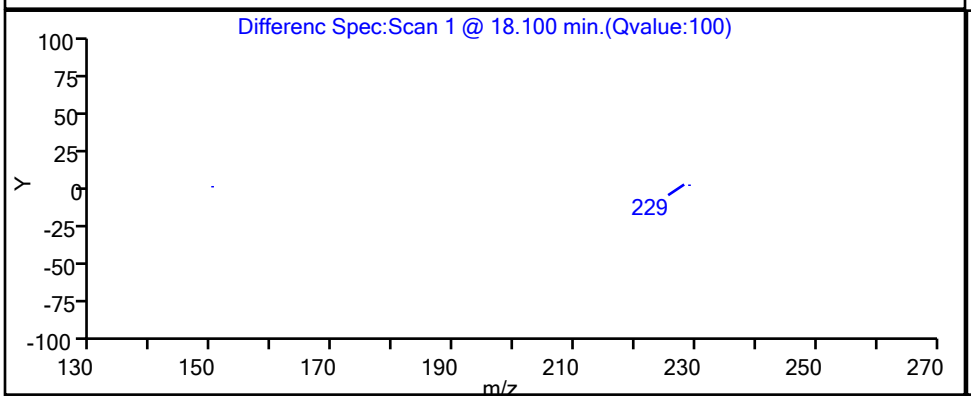


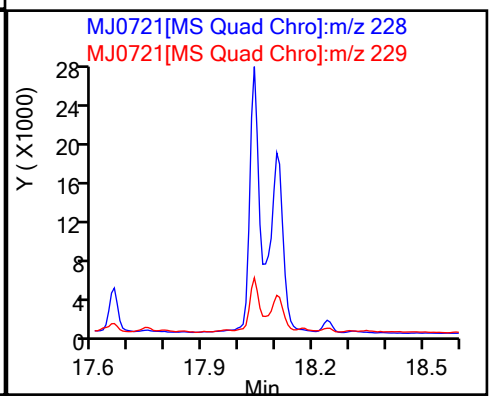












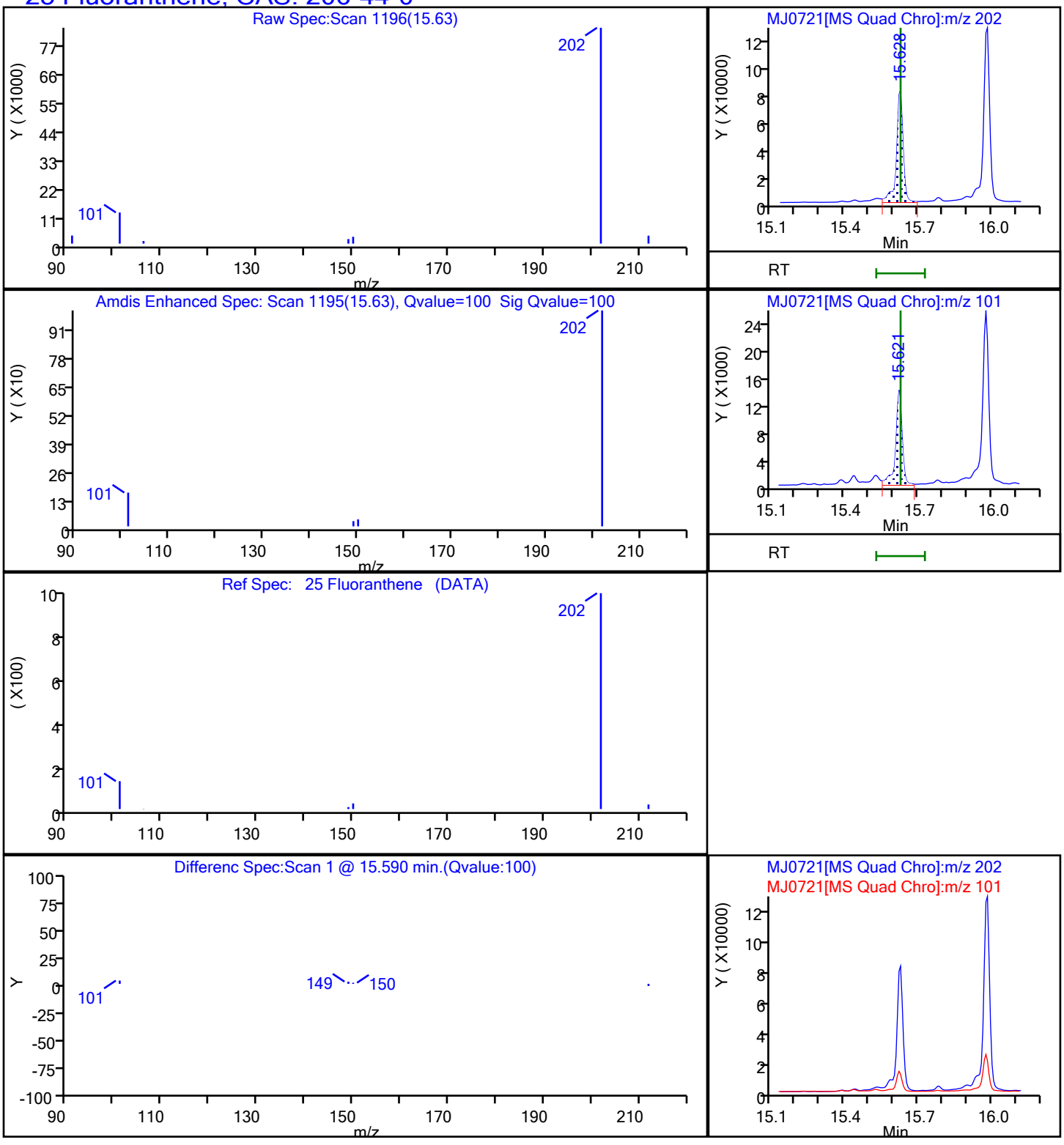
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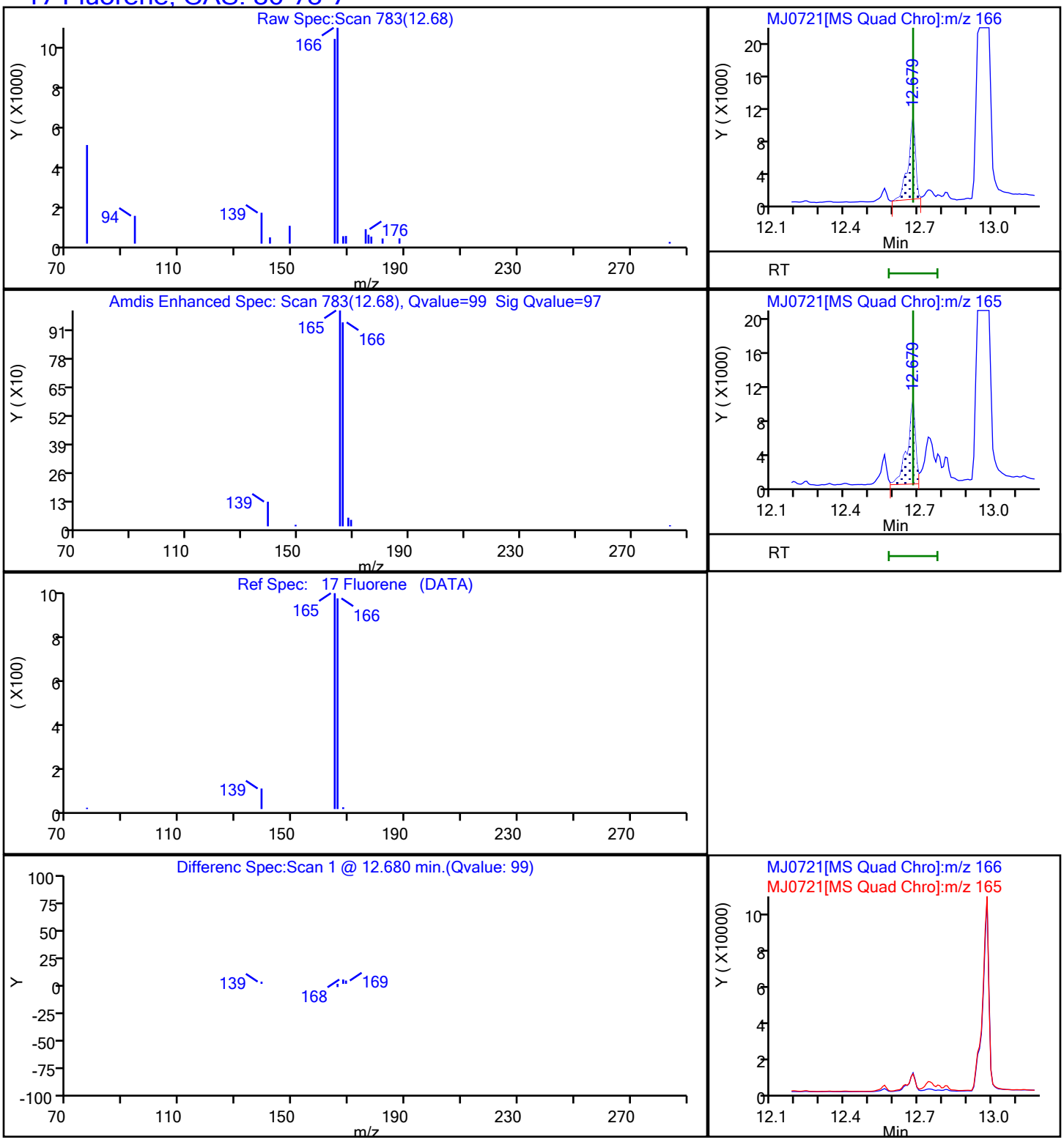
25 Fluoranthene, CAS: 206-44-0



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Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0721.D				
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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



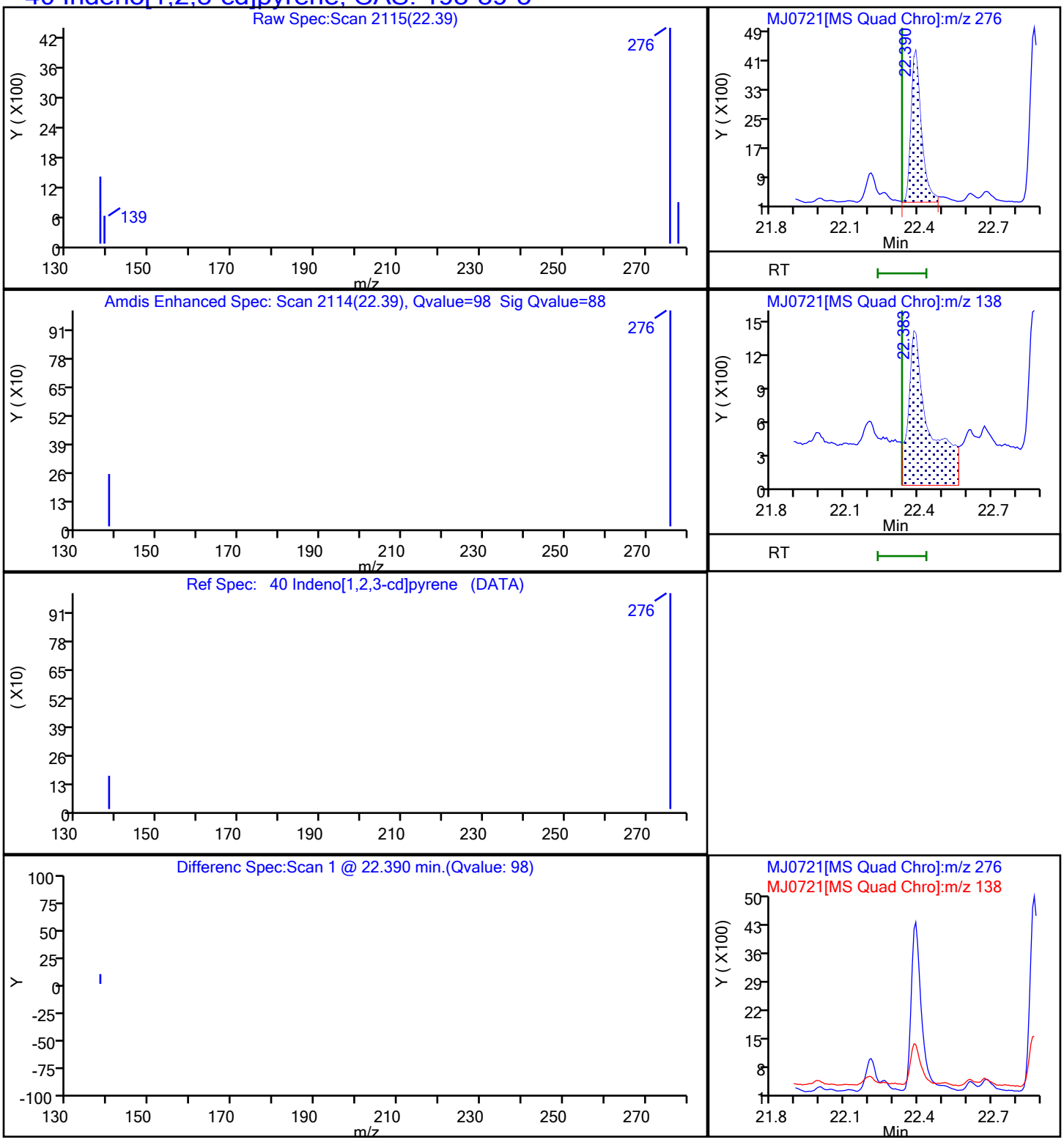
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
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40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



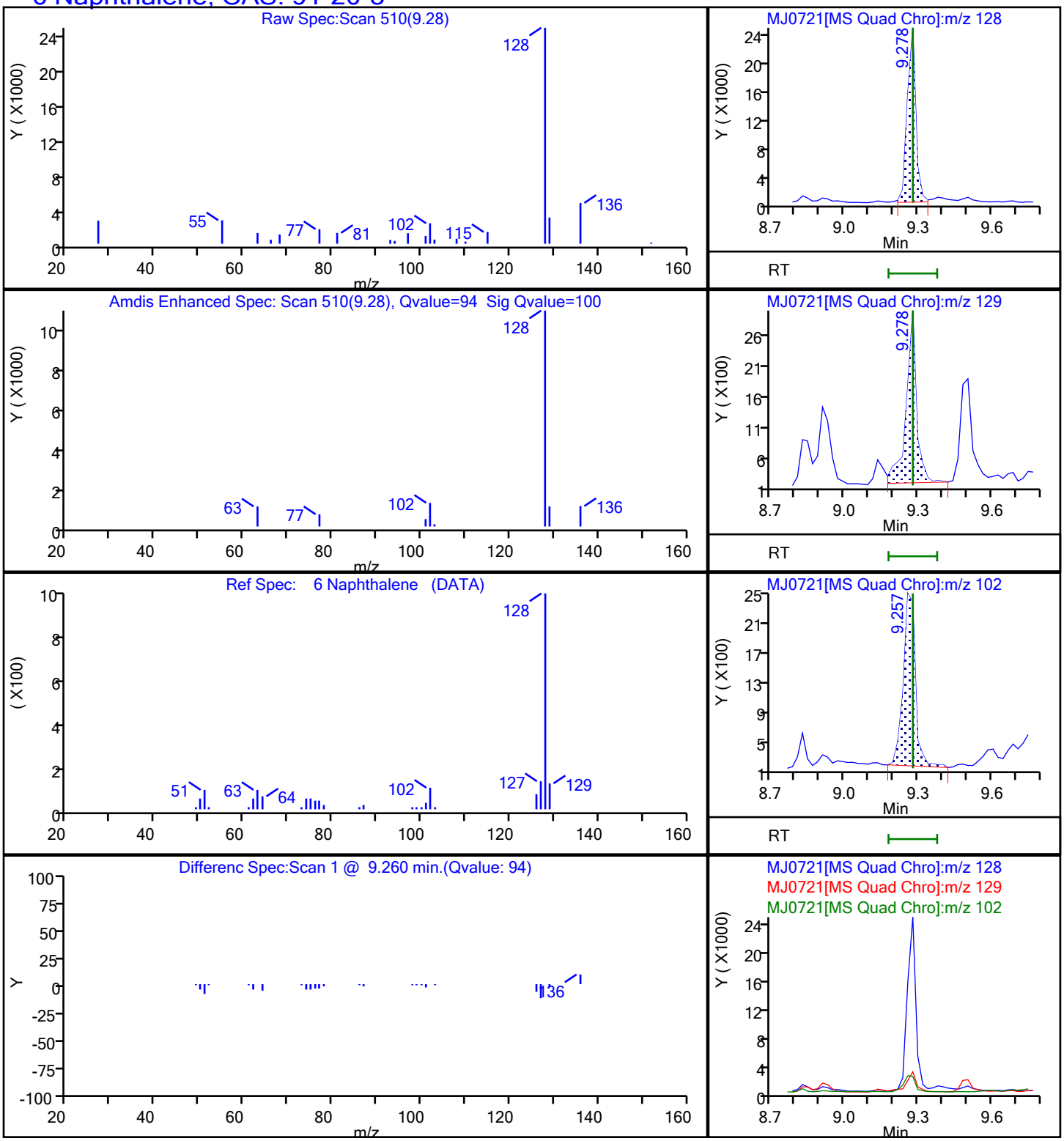
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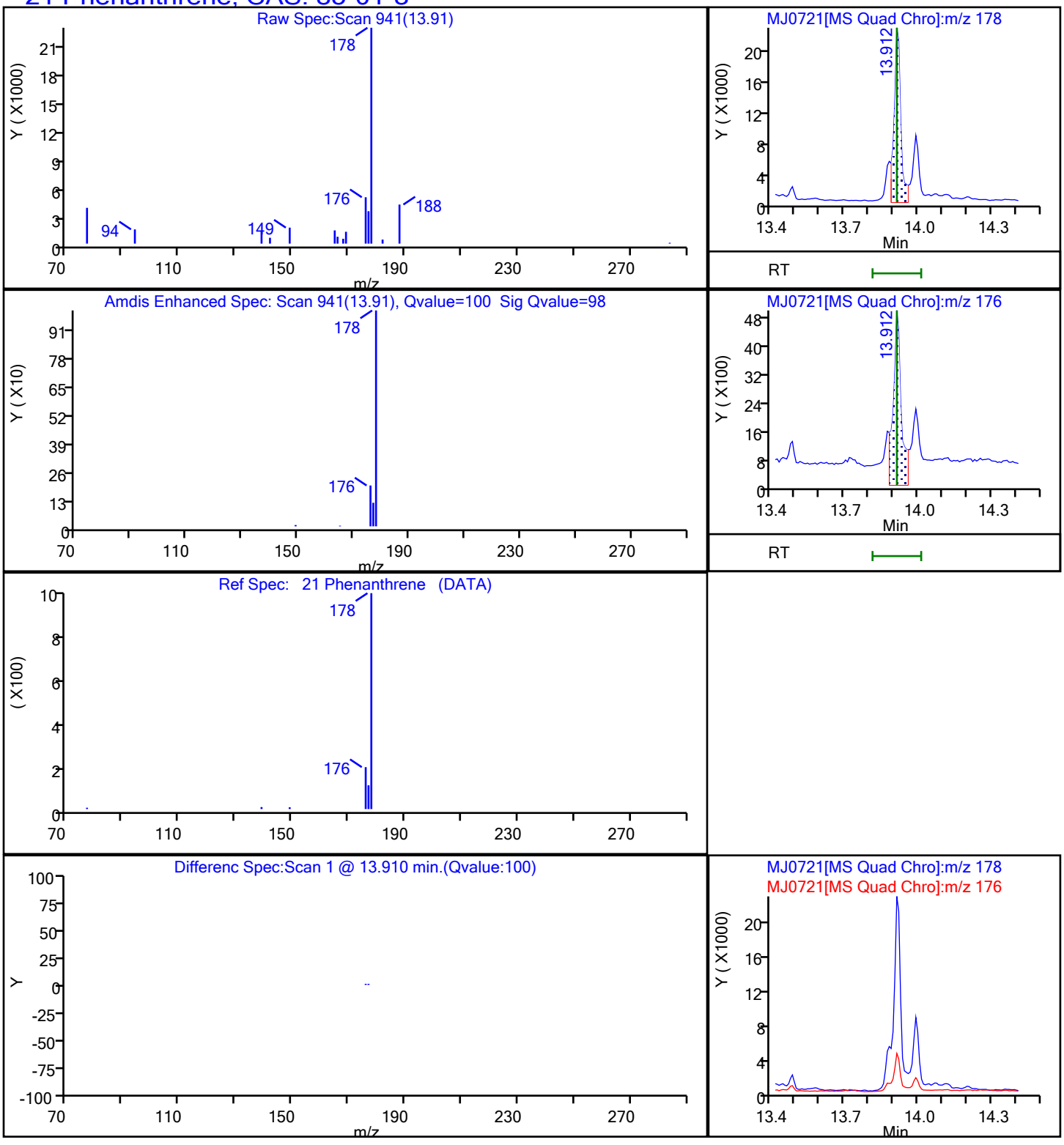
6 Naphthalene, CAS: 91-20-3



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Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0721.D		
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Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13
Client ID:	MW-11S-20210929		
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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

21 Phenanthrene, CAS: 85-01-8

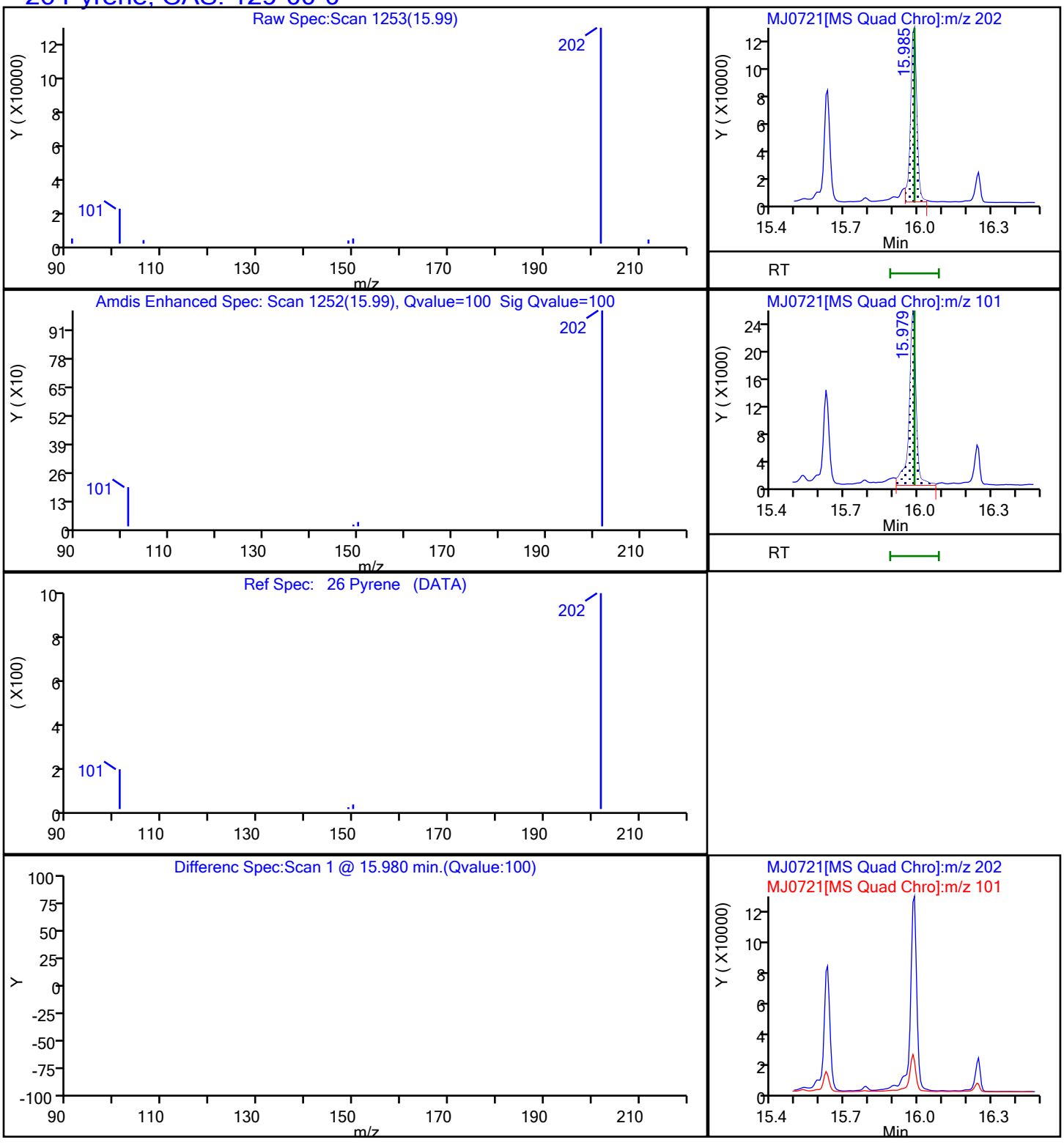


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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

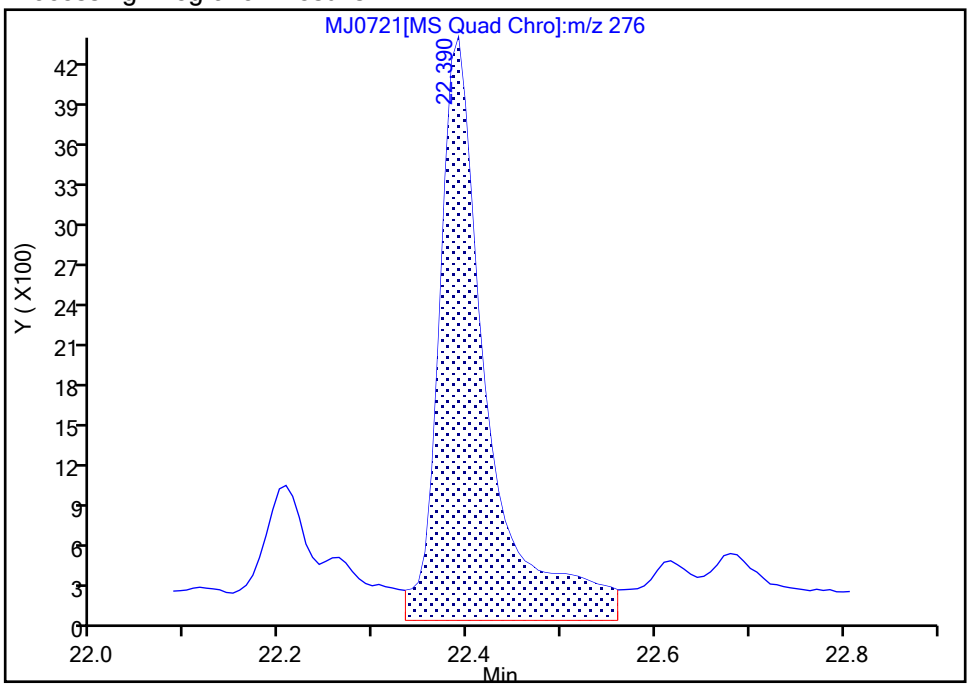
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0721.D				
Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585		
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	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

Signal: 1

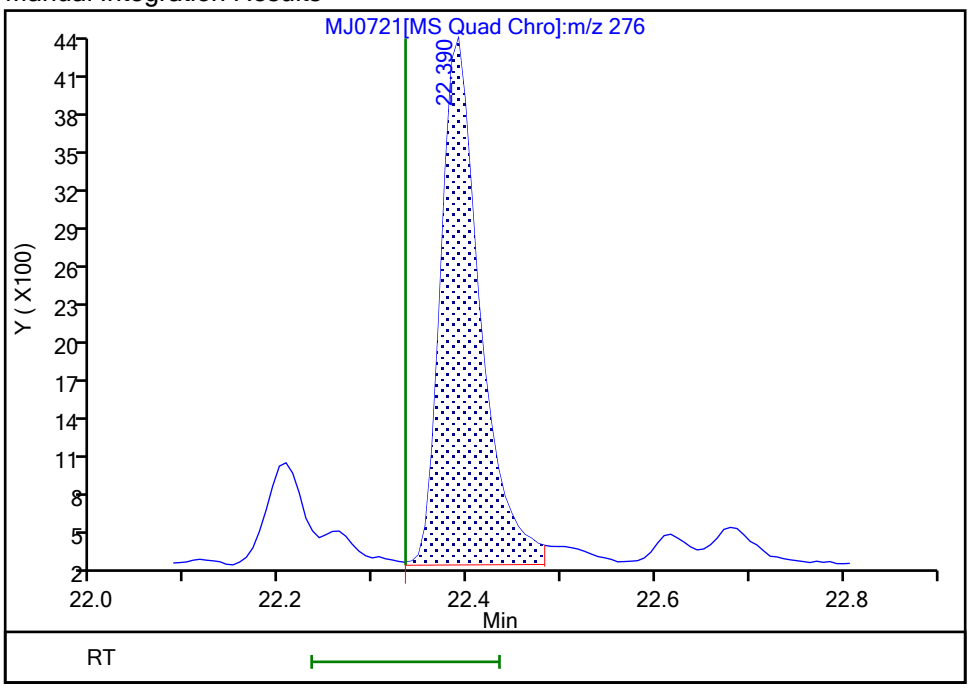
Processing Integration Results

RT: 22.39
Area: 15370
Amount: 0.017865
Amount Units: ug/ml



Manual Integration Results

RT: 22.39
Area: 12118
Amount: 0.014085
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:22:09

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

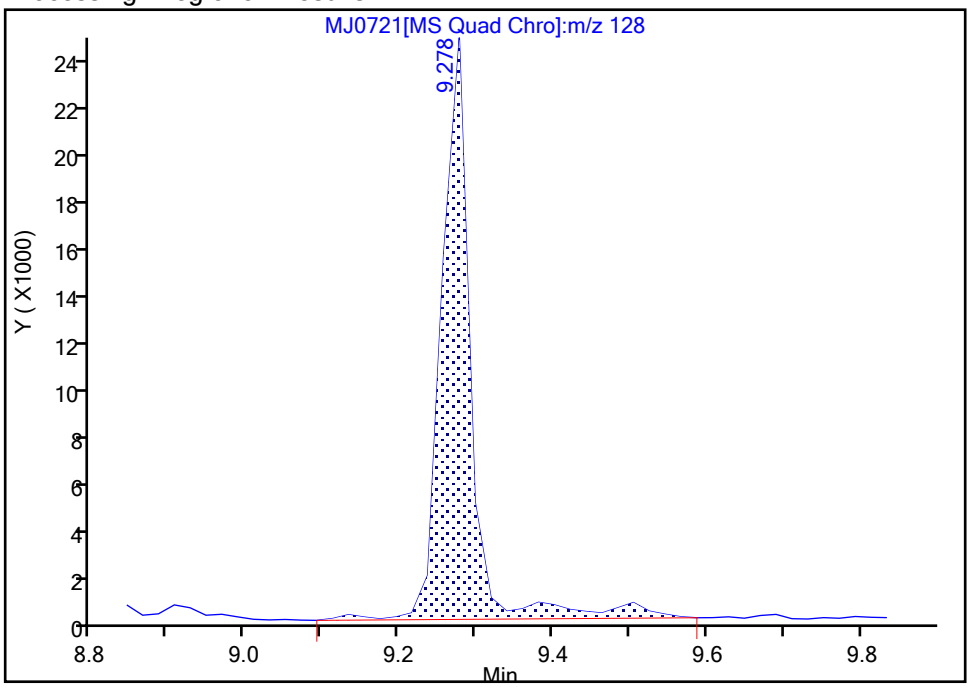
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Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585		
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

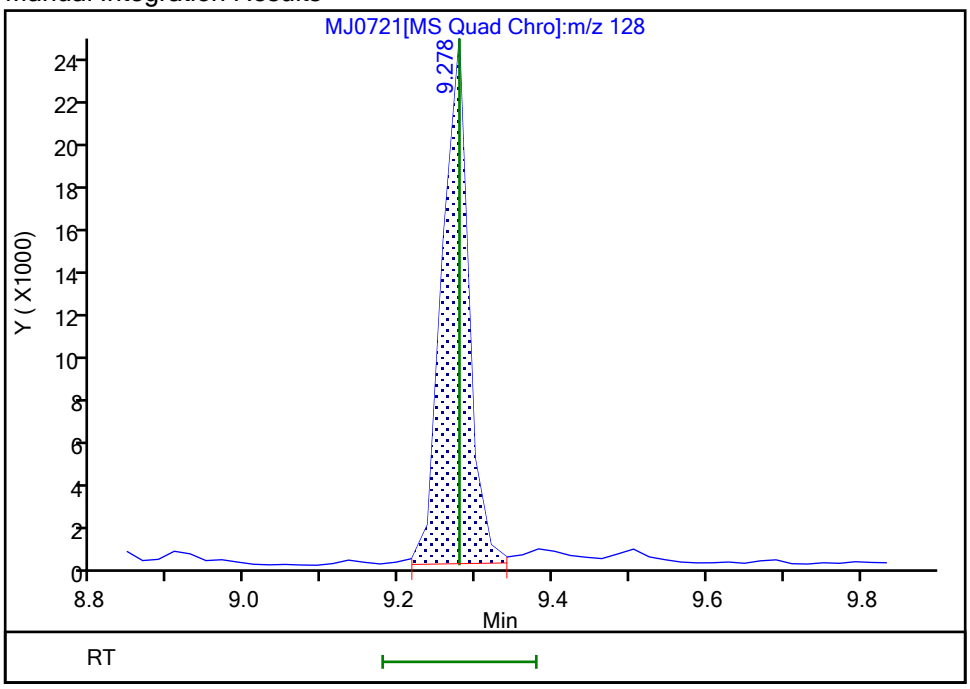
Processing Integration Results

RT: 9.28
Area: 65114
Amount: 0.057695
Amount Units: ug/ml



Manual Integration Results

RT: 9.28
Area: 58612
Amount: 0.051934
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:21:40

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

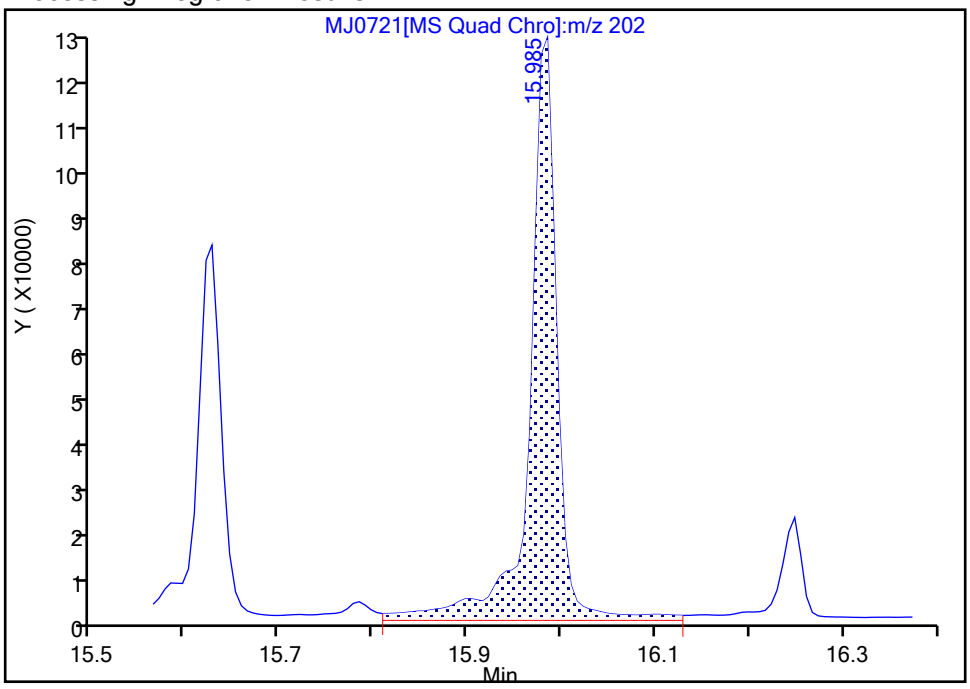
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Injection Date:	12-Oct-2021 13:30:07	Instrument ID:	HP21585		
Lims ID:	410-57303-B-13-A RE	Lab Sample ID:	410-57303-13		
Client ID:	MW-11S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

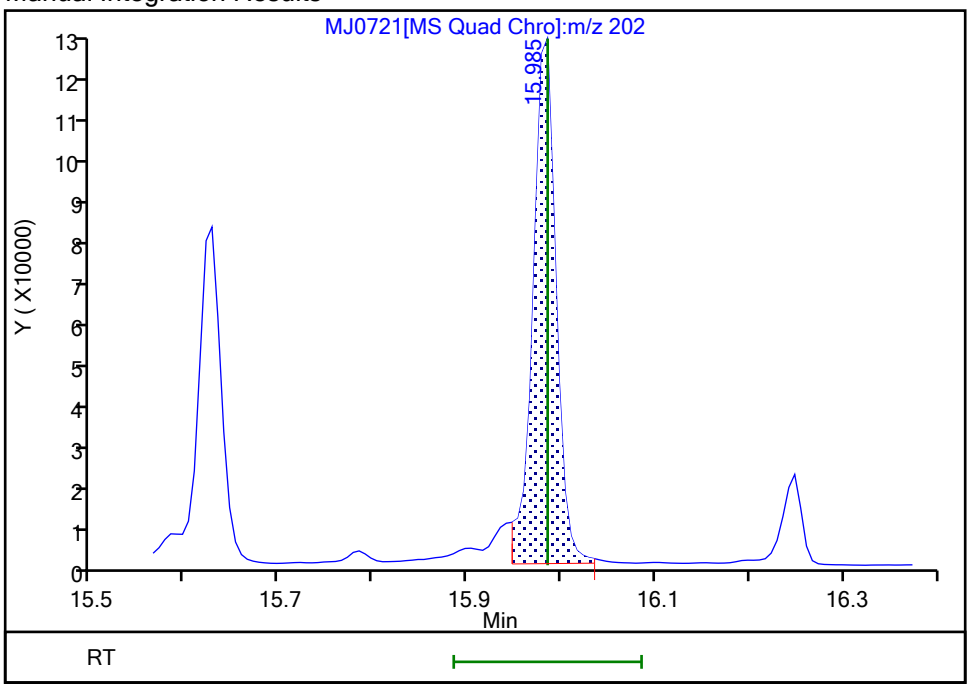
Processing Integration Results

RT: 15.99
Area: 264059
Amount: 0.210410
Amount Units: ug/ml



Manual Integration Results

RT: 15.99
Area: 217682
Amount: 0.173455
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:21:58

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.: 410-57303-1

SDG No.:

Client Sample ID: MW-11D-20210929 Lab Sample ID: 410-57303-14

Matrix: Ground Water Lab File ID: MJ0587.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 14:59

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 241.3(mL) Date Analyzed: 10/08/2021 16:50

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.: 180407 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	ND		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	58		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		36-111
93951-69-0	Fluoranthene-d10 (Surr)	97		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0587.D
Lims ID: 410-57303-A-14-A
Client ID: MW-11D-20210929
Sample Type: Client
Inject. Date: 08-Oct-2021 16:50:05 ALS Bottle#: 0 Worklist Smp#: 62
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-14-A
Misc. Info.: 410-0041033-062
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:55:53 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 23:54:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.300	7.320	-0.020	100	61564	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	92	212198	0.2500	
6 Naphthalene	128	9.258	9.257	0.000	94	2483	0.002519	7Ma
$ 9 1-Methylnaphthalene-d10	152	10.462	10.473	0.012	100	81384	0.1981	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	92	104577	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	95	176142	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.592	0.012	100	169386	0.2428	
* 29 Chrysene-d12	240	18.055	18.040	0.015	55	171356	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	100	90597	0.1443	
* 38 Perylene-d12	264	20.556	20.548	0.008	99	176520	0.2500	

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

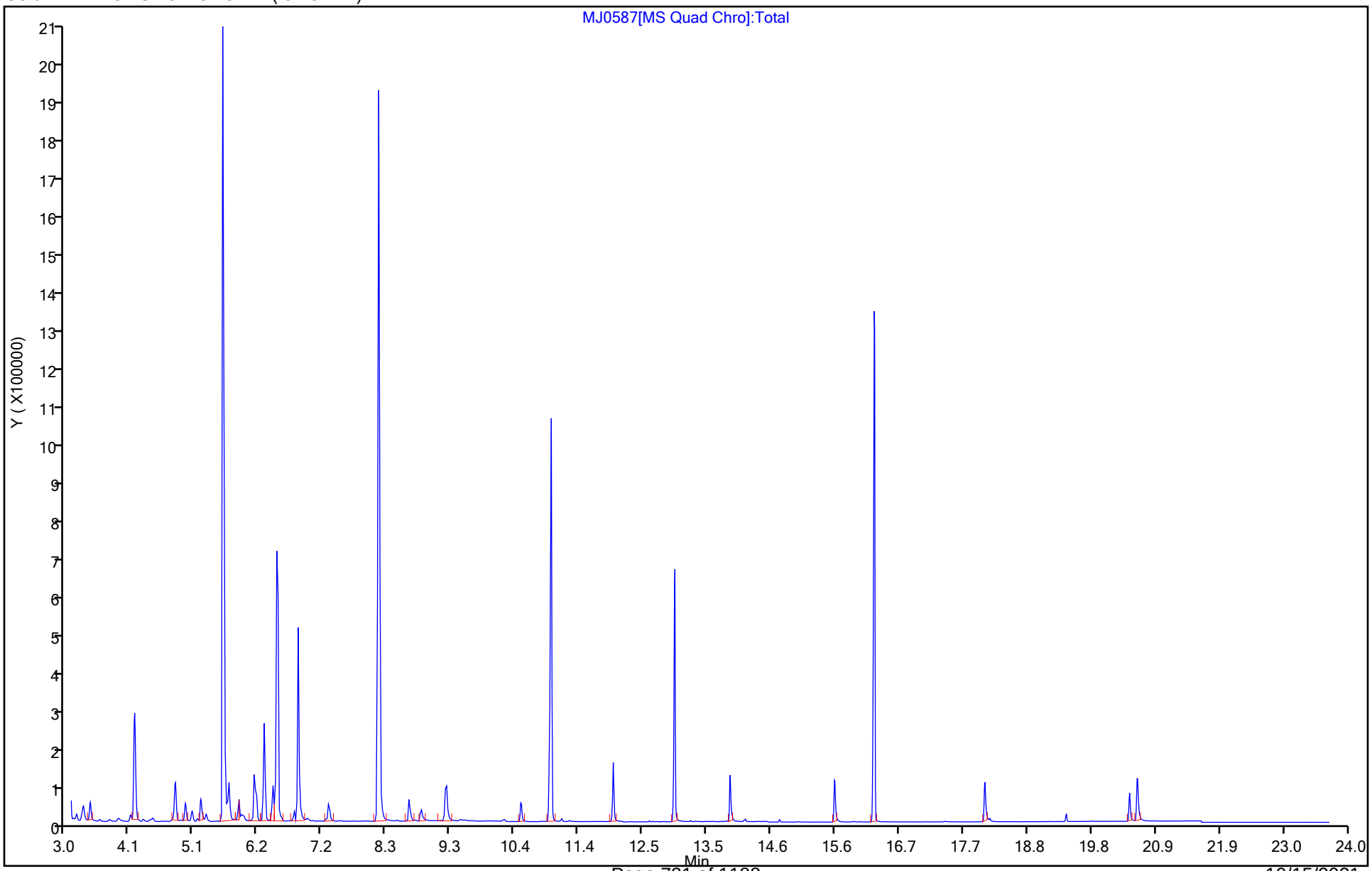
Report Date: 09-Oct-2021 23:55:59 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0587.D

Injection Date:	08-Oct-2021 16:50:05	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-14-A	Lab Sample ID:	410-57303-14	Worklist Smp#:	62
Client ID:	MW-11D-20210929				
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

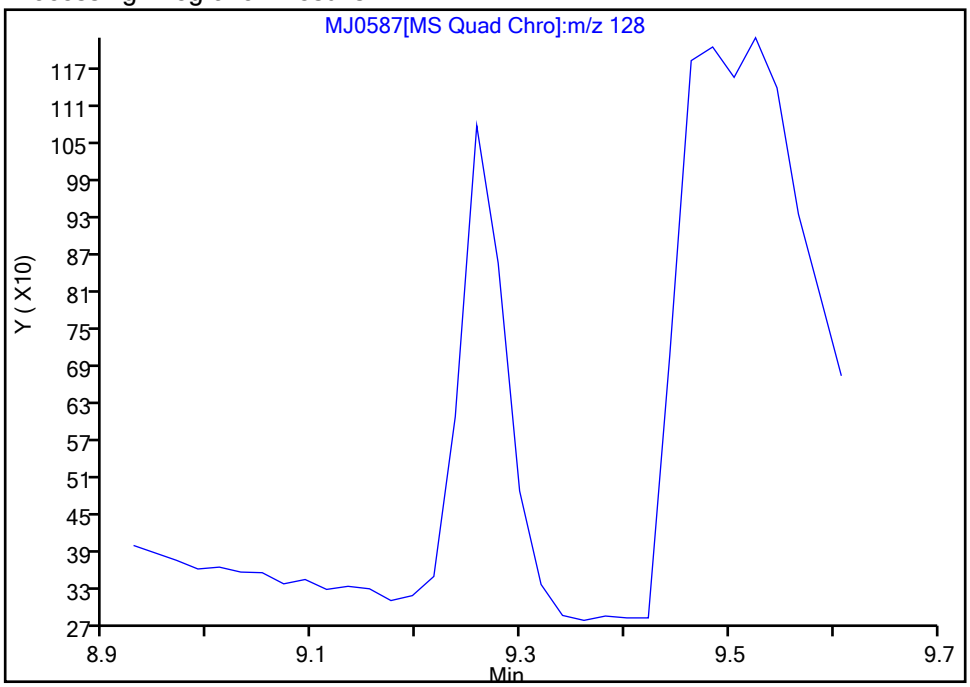
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0587.D				
Injection Date:	08-Oct-2021 16:50:05	Instrument ID:	HP21585		
Lims ID:	410-57303-A-14-A	Lab Sample ID:	410-57303-14		
Client ID:	MW-11D-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 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

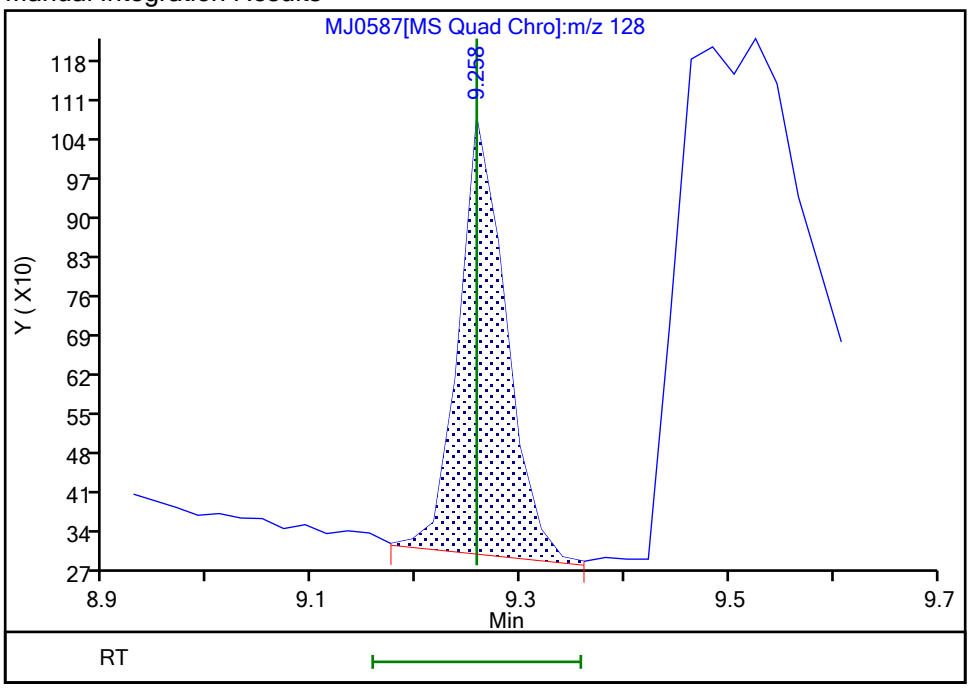
Not Detected
Expected RT: 9.26

Processing Integration Results



Manual Integration Results

RT: 9.26
Area: 2483
Amount: 0.002519
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:54:15
Audit Action: Split an Integrated Peak Audit Reason: Missed Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-4S-20210929 Lab Sample ID: 410-57303-15

Matrix: Ground Water Lab File ID: MJ0588.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 15:59

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 234.4(mL) Date Analyzed: 10/08/2021 17:19

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.: 180407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.25		0.053	0.011
120-12-7	Anthracene	0.22		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	4.4		0.053	0.011
86-73-7	Fluorene	6.5		0.053	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021
91-20-3	Naphthalene	0.059	J B	0.075	0.032
85-01-8	Phenanthrene	0.10		0.075	0.032
129-00-0	Pyrene	4.9		0.053	0.011

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)	96		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0588.D
Lims ID: 410-57303-A-15-A
Client ID: MW-4S-20210929
Sample Type: Client
Inject. Date: 08-Oct-2021 17:19:48 ALS Bottle#: 0 Worklist Smp#: 63
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-15-A
Misc. Info.: 410-0041033-063
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:55:53 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 23:55:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.299	7.320	-0.021	97	61418	0.2500	
* 5 Naphthalene-d8	136	9.216	9.216	0.000	92	211350	0.2500	
6 Naphthalene	128	9.257	9.257	-0.001	91	13640	0.0139	M
$ 9 1-Methylnaphthalene-d10	152	10.450	10.473	0.000	100	81194	0.1985	
12 Acenaphthylene	152	11.770	11.783	-0.001	93	55553	0.0590	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	87	112453	0.2500	
14 Acenaphthene	154	12.003	12.003	0.000	93	1908826	3.33	E
17 Fluorene	166	12.663	12.671	-0.008	95	1031837	1.53	
* 20 Phenanthrene-d10	188	13.873	13.874	-0.001	95	188277	0.2500	
21 Phenanthrene	178	13.905	13.905	0.000	100	23828	0.0244	M
22 Anthracene	178	13.975	13.975	0.000	100	45822	0.0513	M
$ 24 Fluoranthene-d10 (Surr)	212	15.584	15.592	0.000	100	179038	0.2401	
25 Fluoranthene	202	15.609	15.622	-0.006	100	1052350	1.02	
26 Pyrene	202	15.966	15.986	-0.007	100	1385928	1.16	
* 29 Chrysene-d12	240	18.047	18.040	0.007	72	180515	0.2500	
34 Benzo[k]fluoranthene	252	19.988	19.988	0.031	100	360	0.000326	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.417	0.015	100	126393	0.1946	
* 38 Perylene-d12	264	20.548	20.548	0.000	99	182551	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

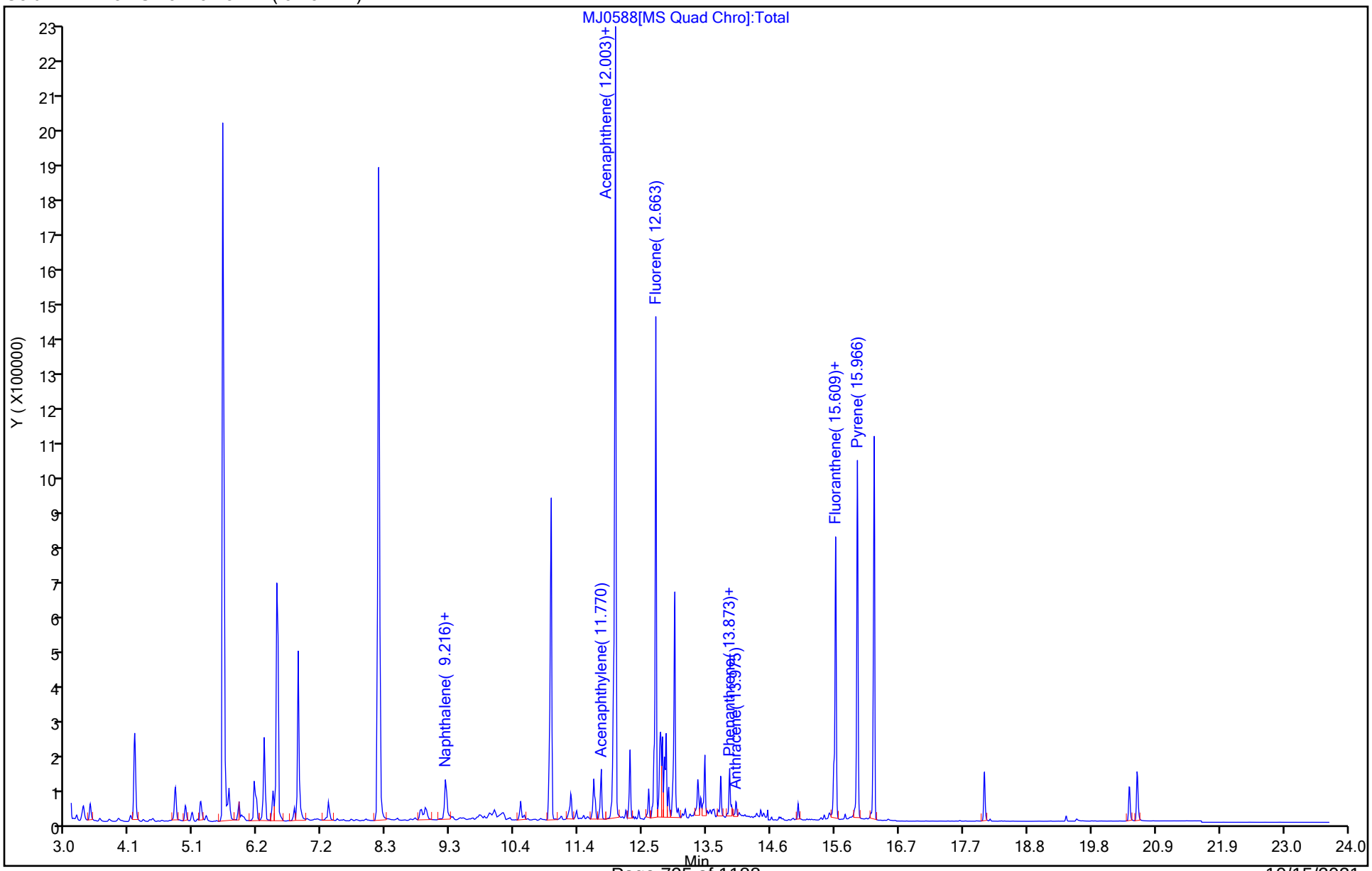
Report Date: 09-Oct-2021 23:56:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0588.D

Injection Date:	08-Oct-2021 17:19:48	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-15-A	Lab Sample ID:	410-57303-15	Worklist Smp#:	63
Client ID:	MW-4S-20210929				
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)

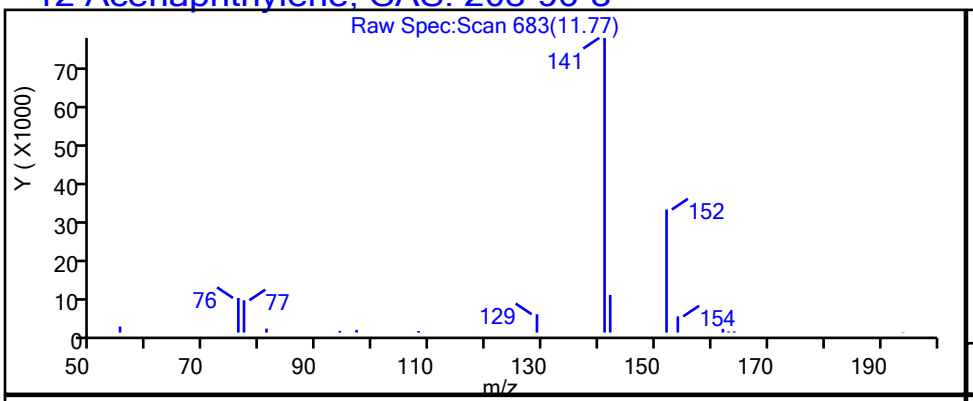


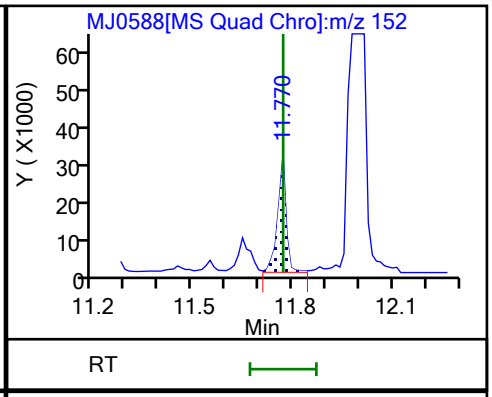
Report Date: 09-Oct-2021 23:56:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

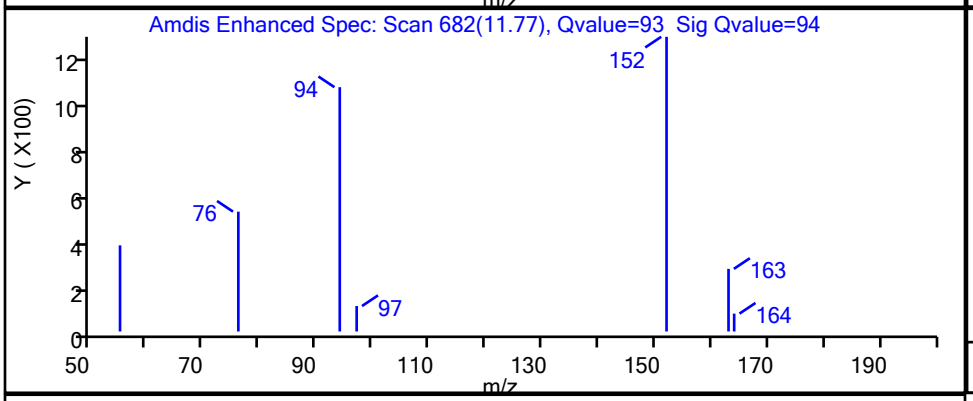
Eurofins Lancaster Laboratories Env, LLC

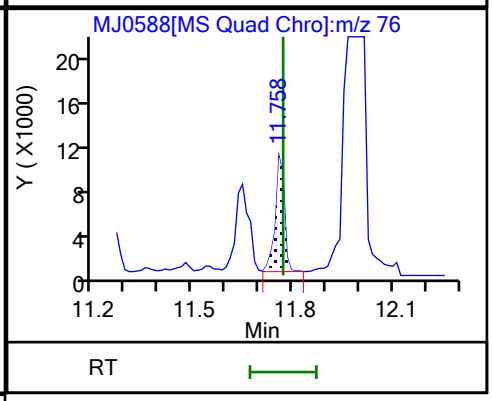
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0588.D				
Injection Date:	08-Oct-2021 17:19:48	Instrument ID:	HP21585		
Lims ID:	410-57303-A-15-A	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 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		

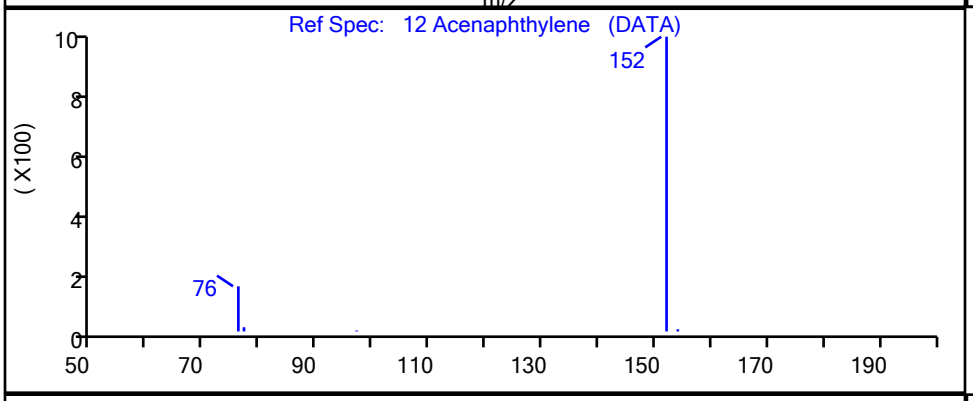
12 Acenaphthylene, CAS: 208-96-8

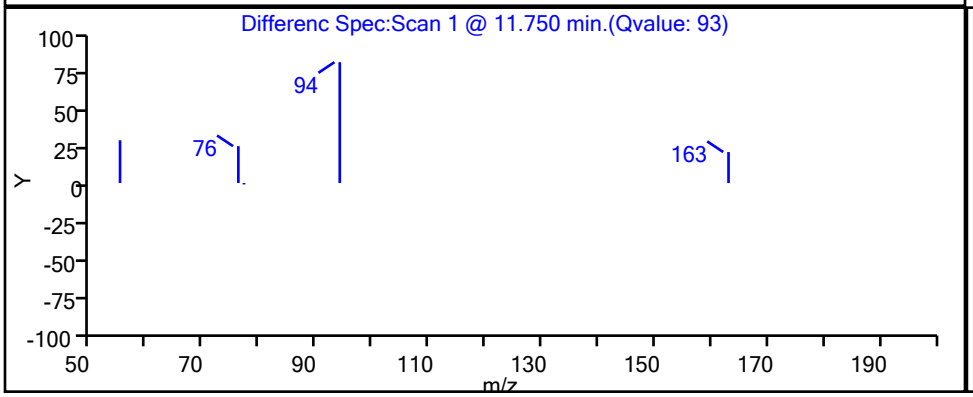


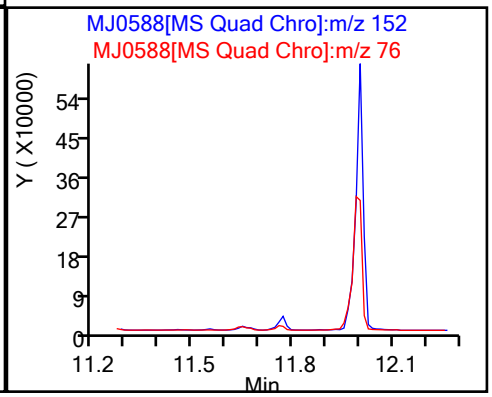












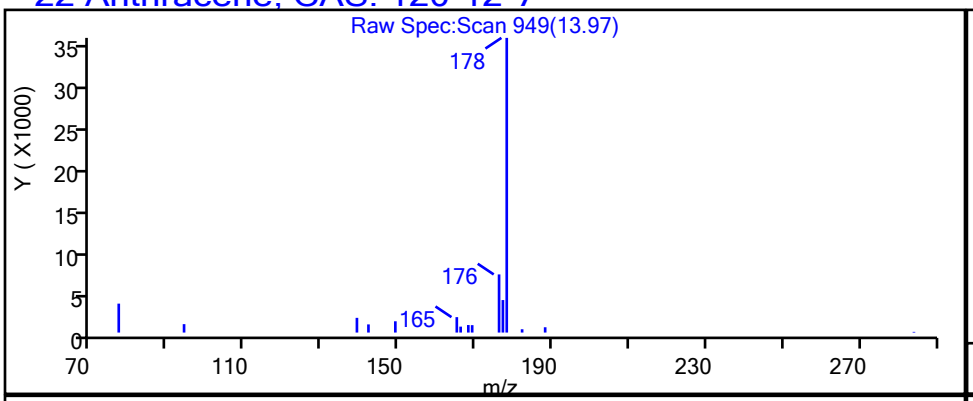
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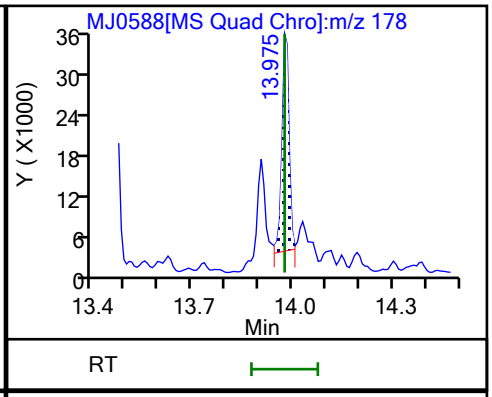
Eurofins Lancaster Laboratories Env, LLC

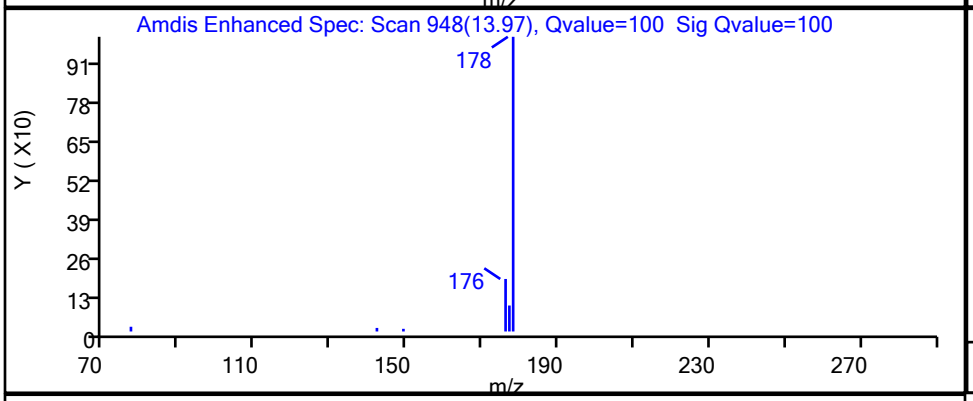
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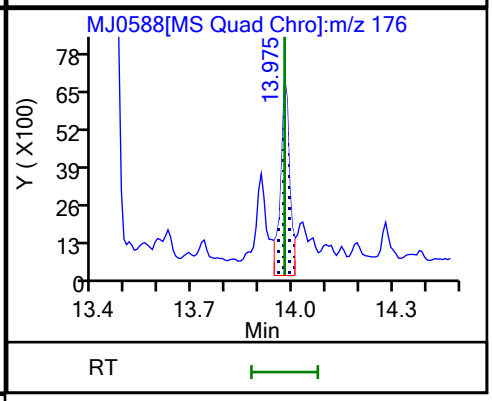
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Lims ID:	410-57303-A-15-A	Lab Sample ID:	410-57303-15		
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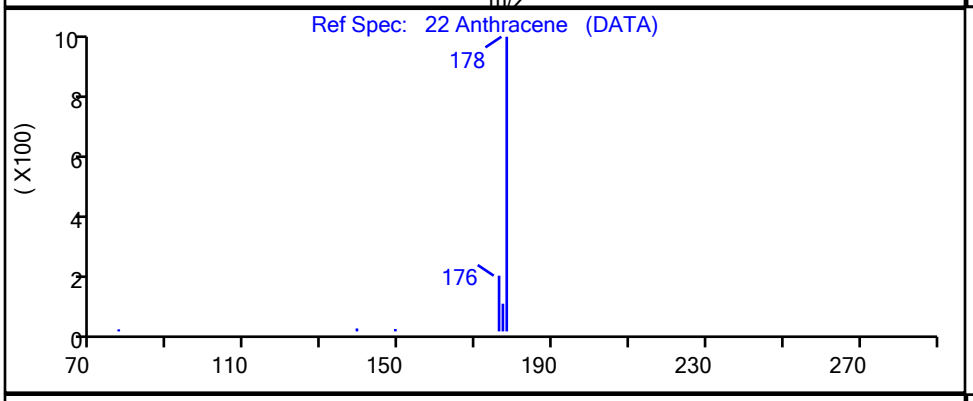
22 Anthracene, CAS: 120-12-7

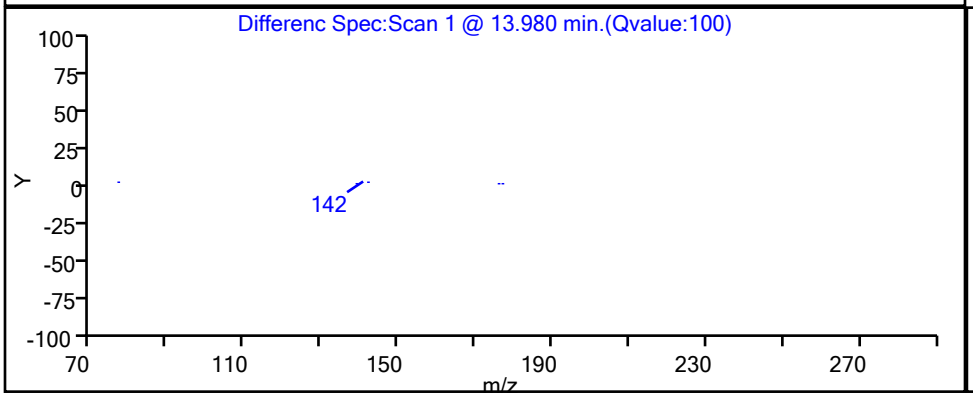


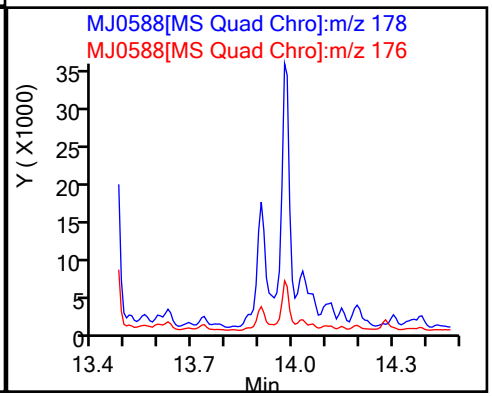












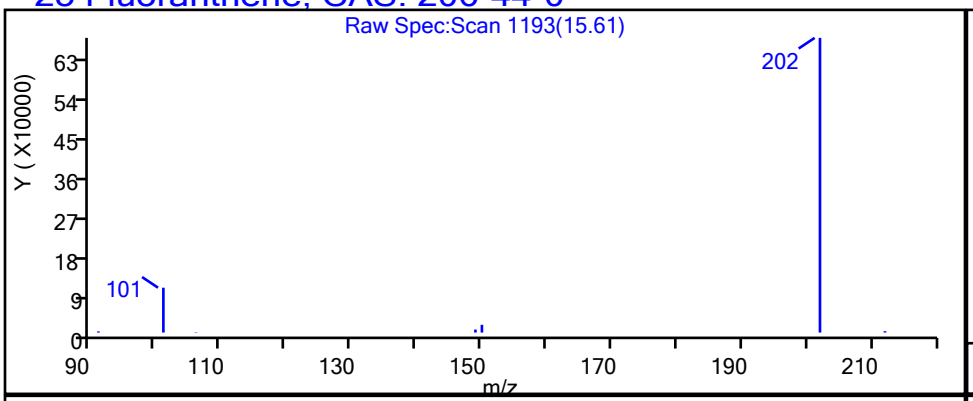
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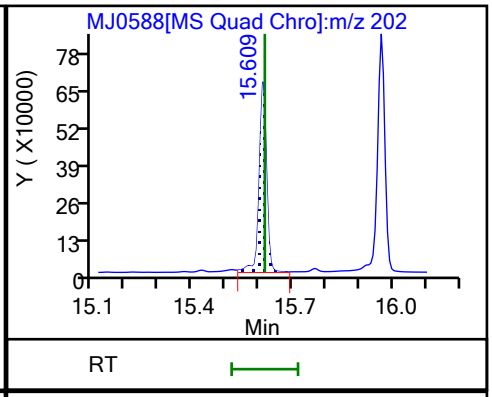
Eurofins Lancaster Laboratories Env, LLC

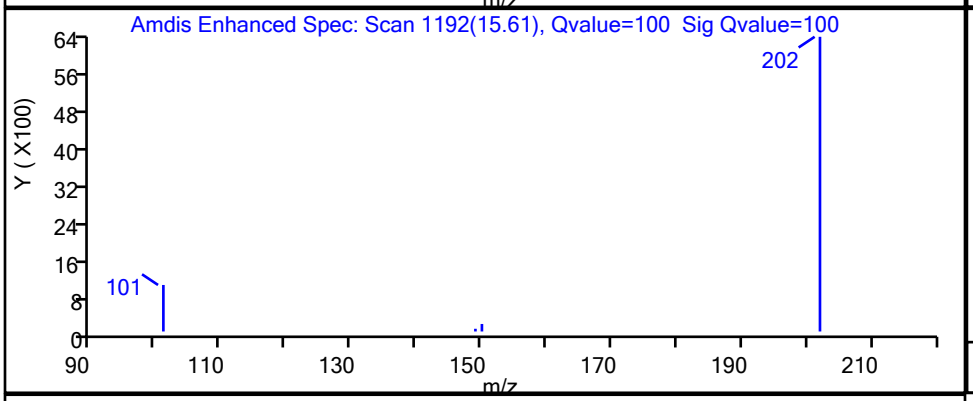
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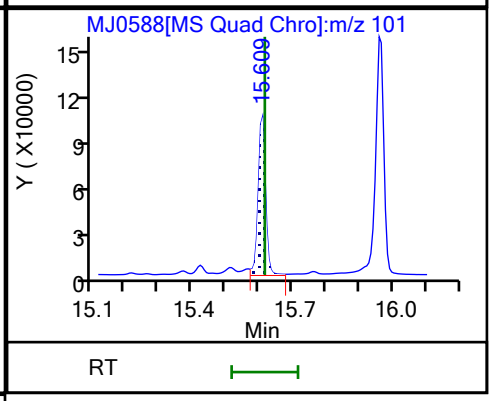
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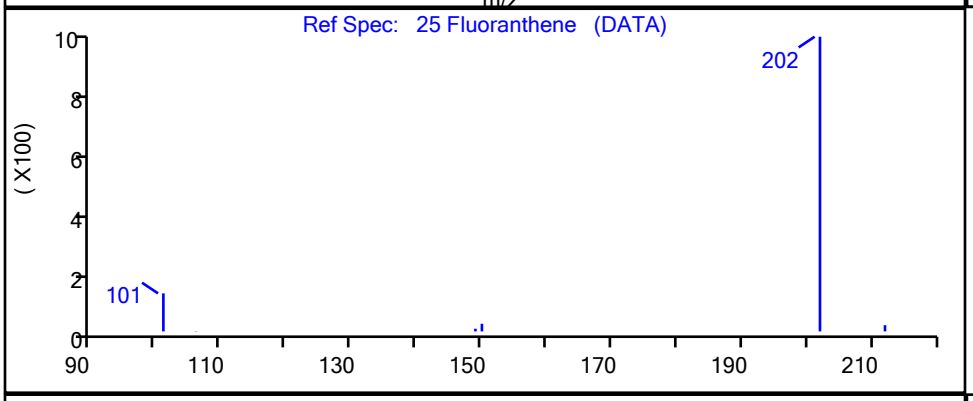
25 Fluoranthene, CAS: 206-44-0

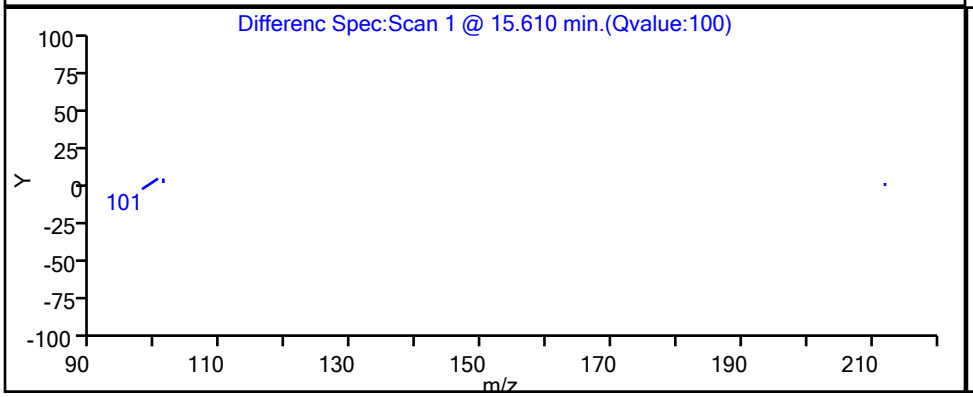


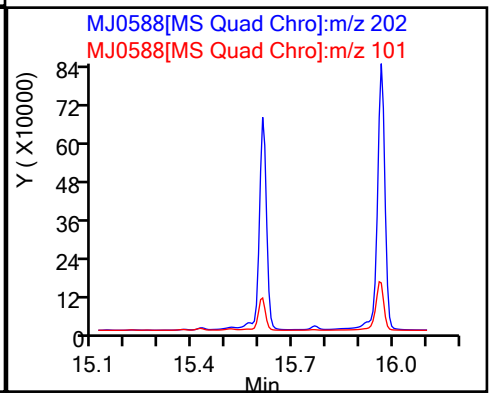












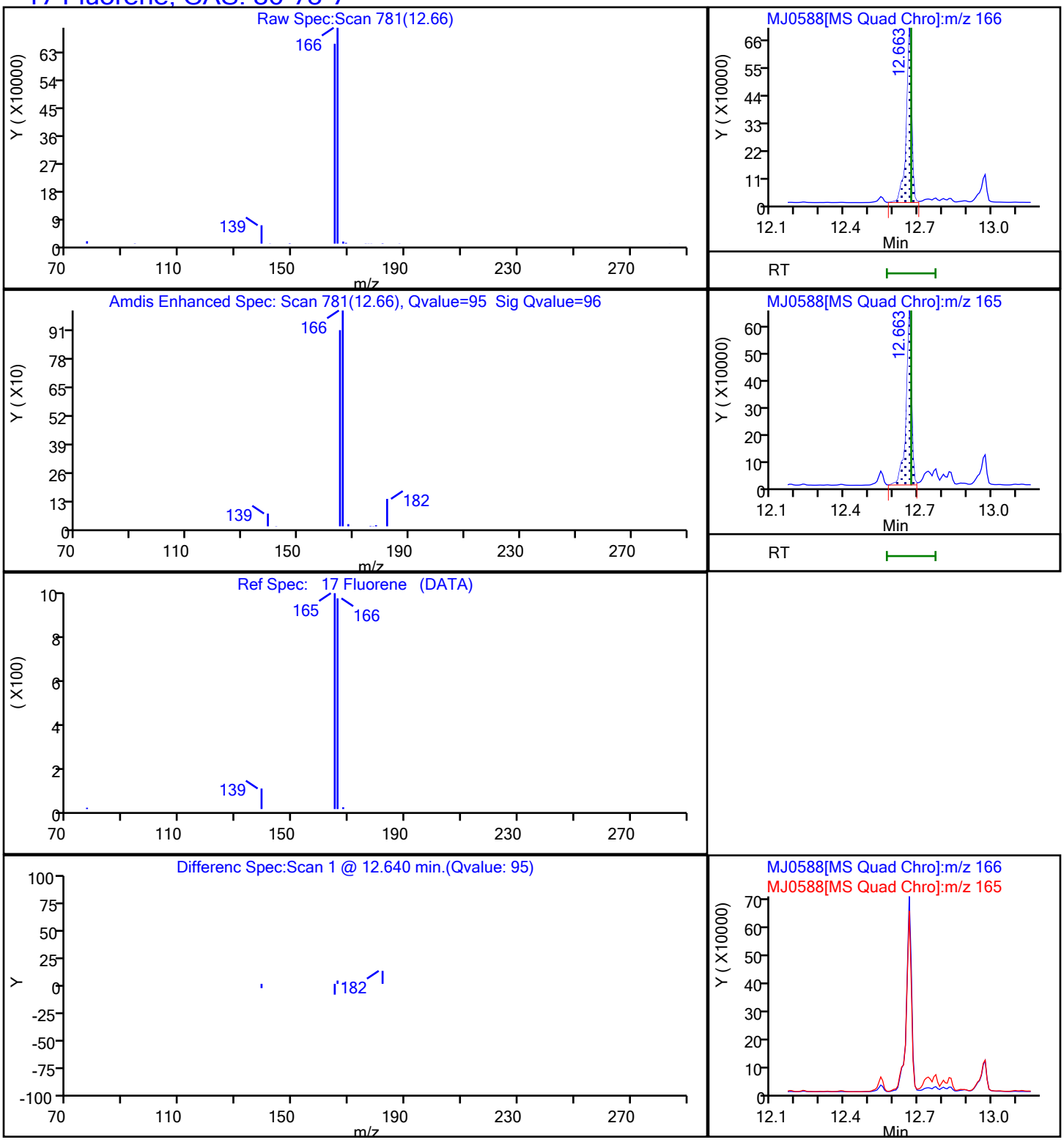
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Eurofins Lancaster Laboratories Env, LLC

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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



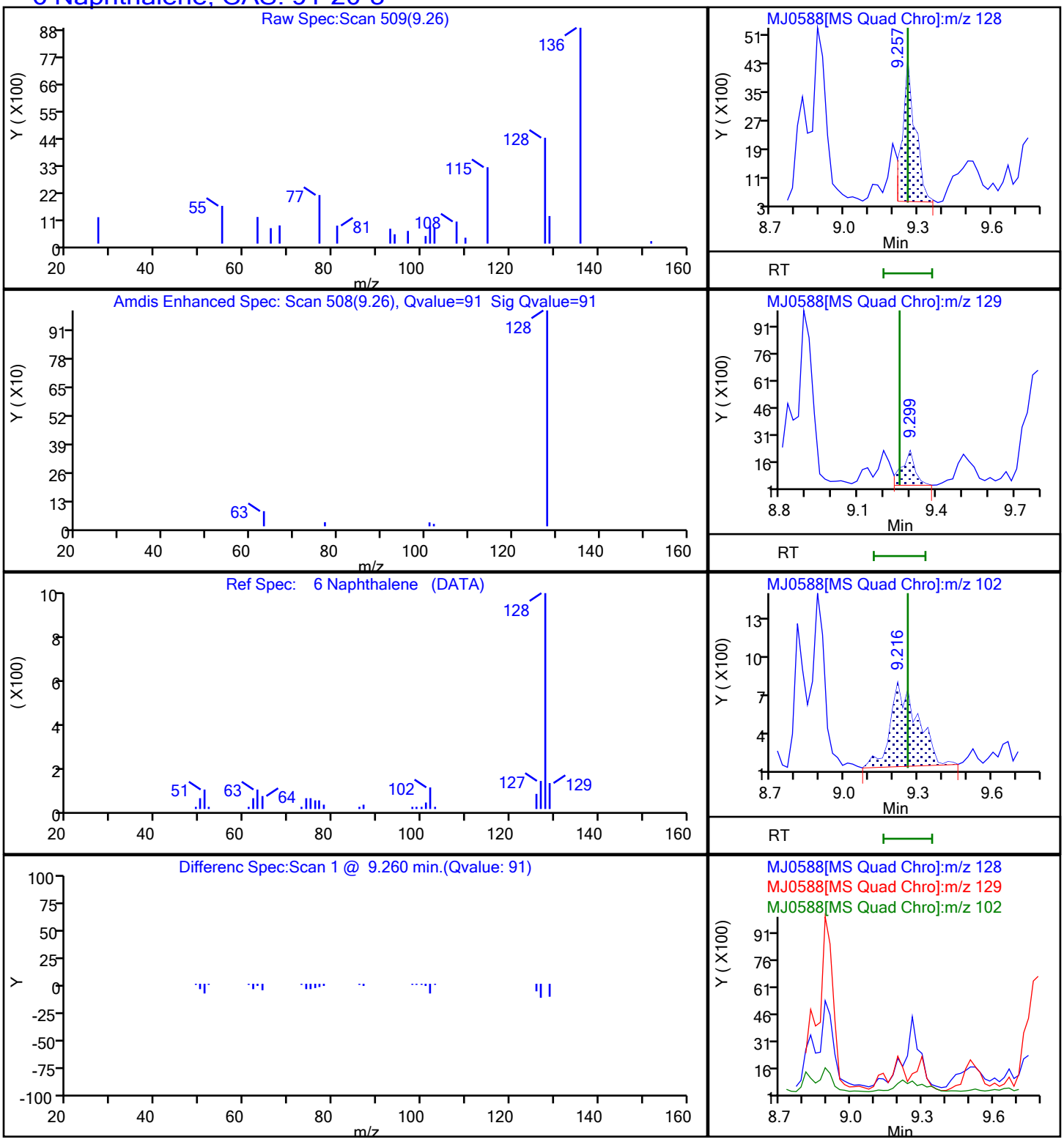
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Eurofins Lancaster Laboratories Env, LLC

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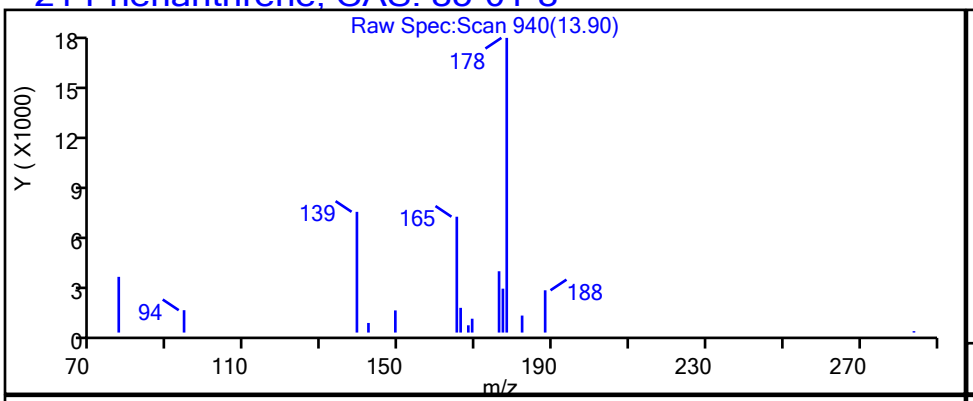
6 Naphthalene, CAS: 91-20-3

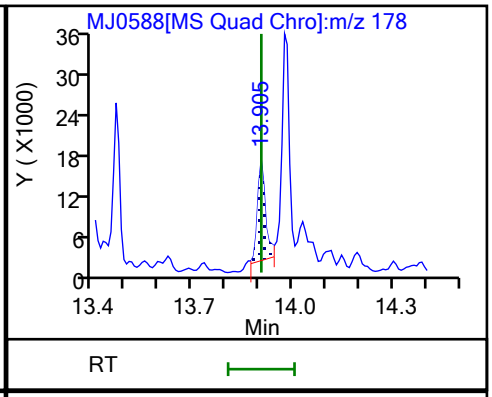


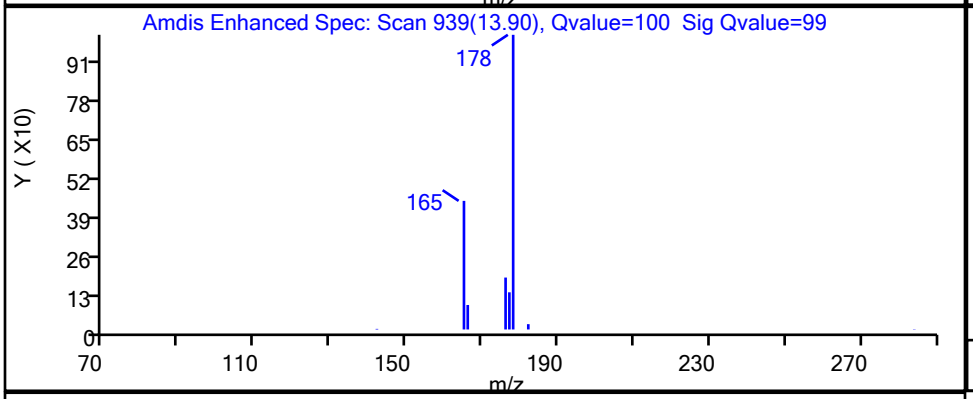
Eurofins Lancaster Laboratories Env, LLC

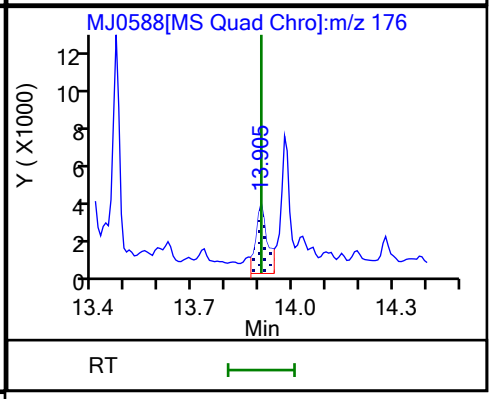
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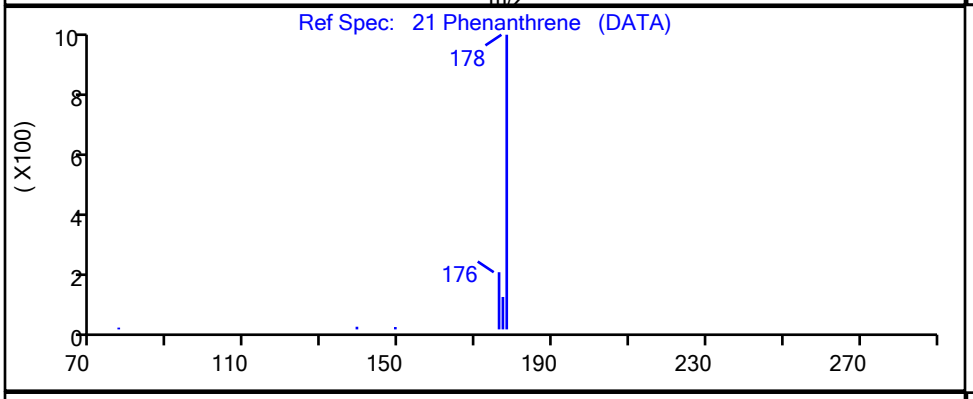
21 Phenanthrene, CAS: 85-01-8

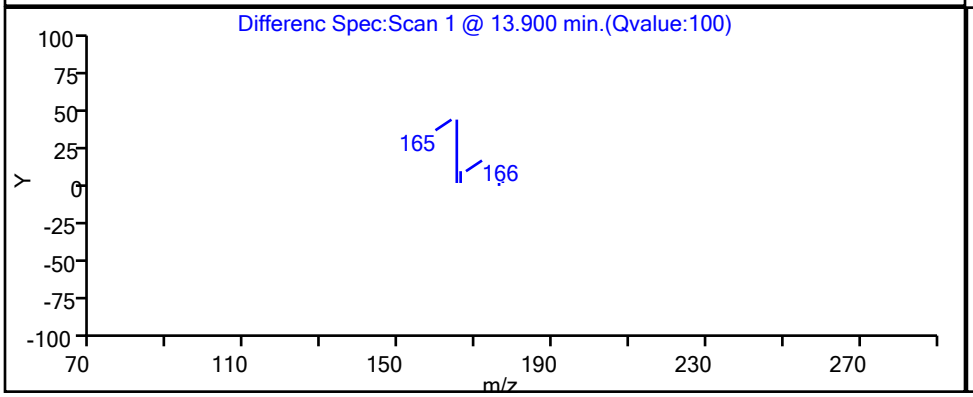


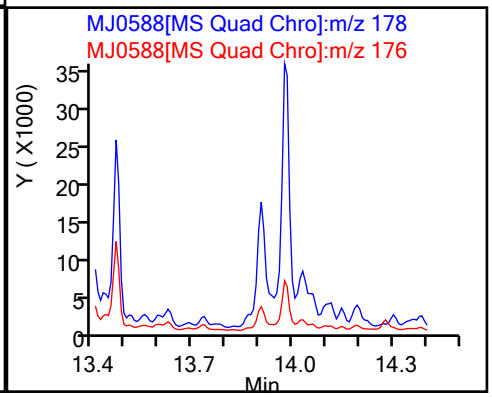












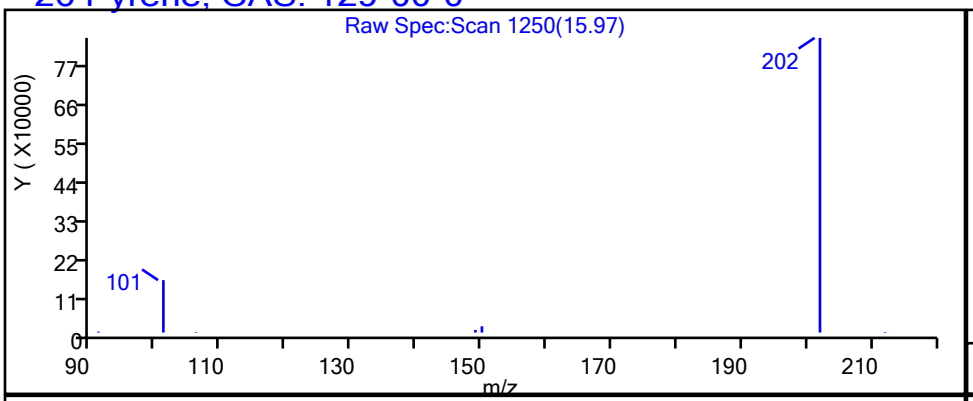
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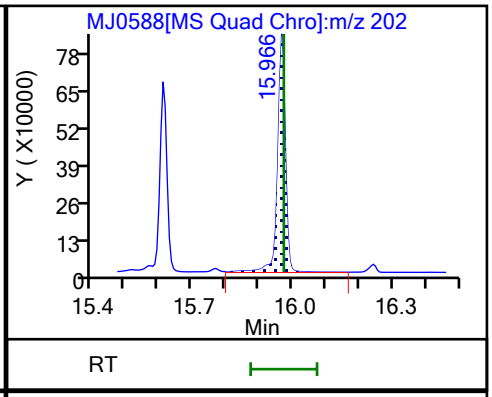
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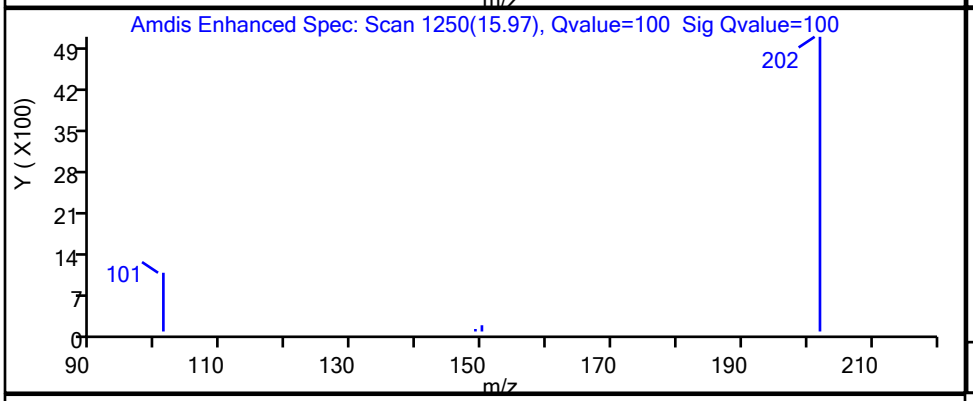
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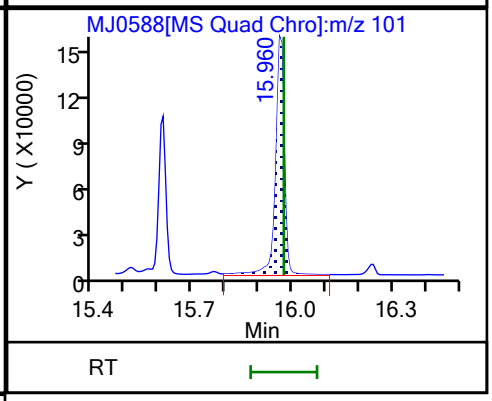
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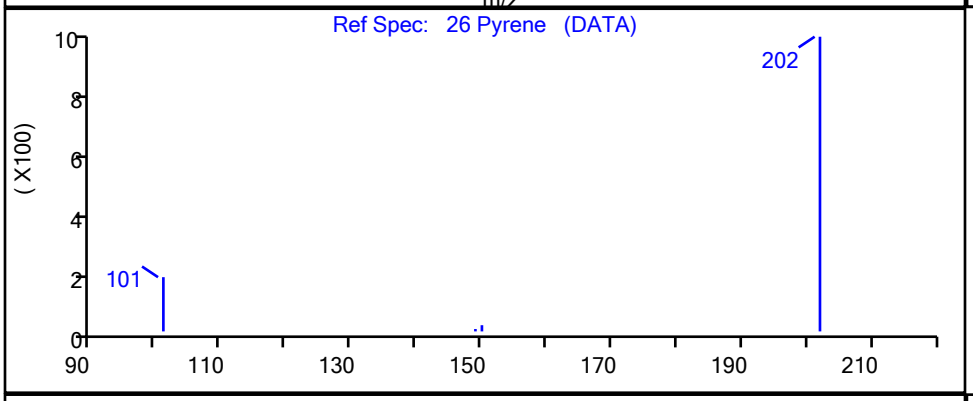
26 Pyrene, CAS: 129-00-0

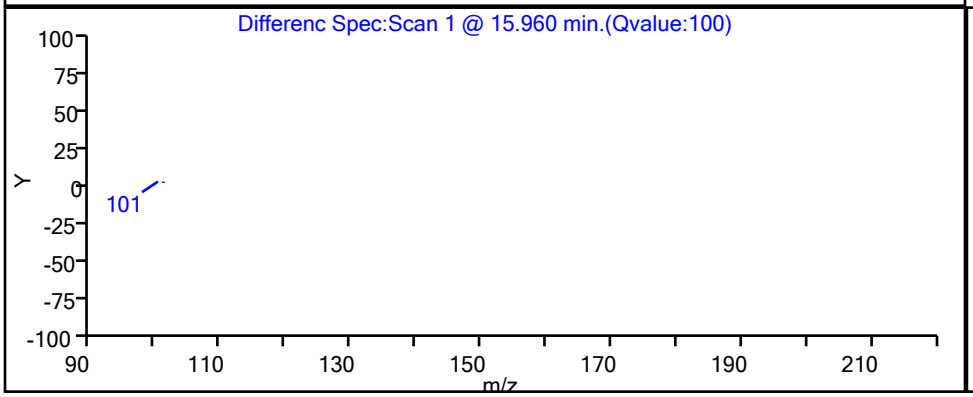


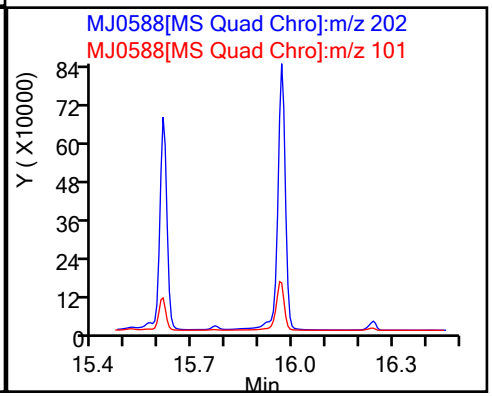












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

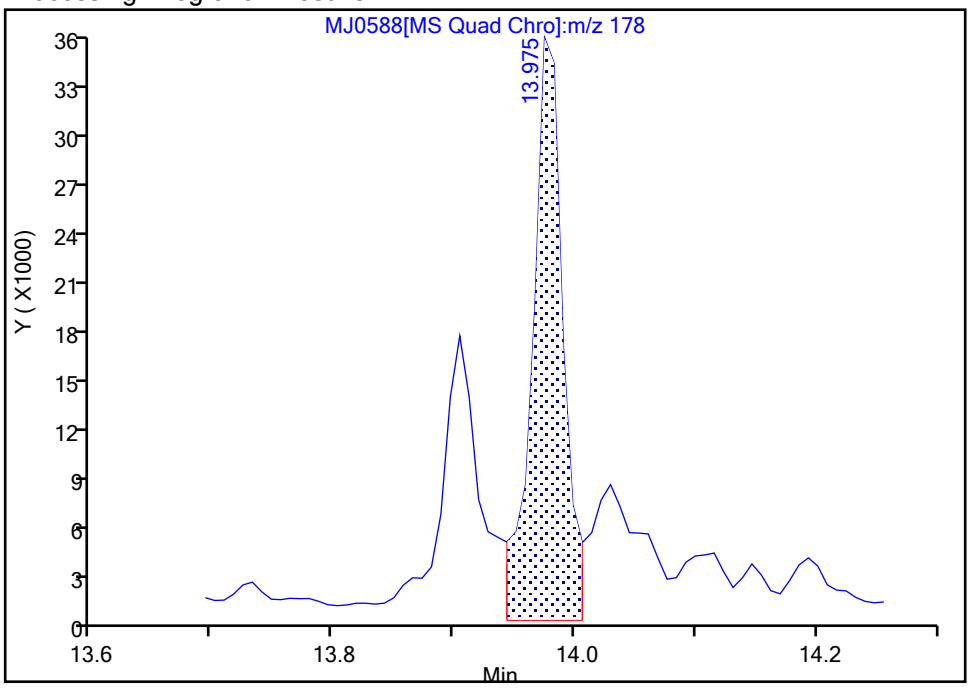
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

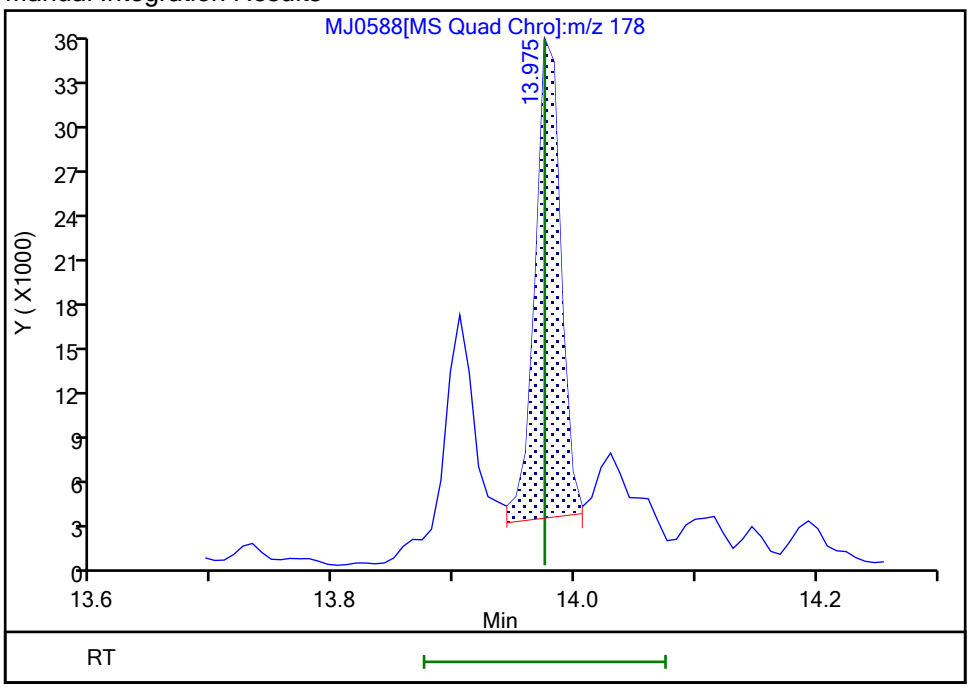
Processing Integration Results

RT: 13.97
Area: 60573
Amount: 0.067814
Amount Units: ug/ml



Manual Integration Results

RT: 13.97
Area: 45822
Amount: 0.051300
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:54:50

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

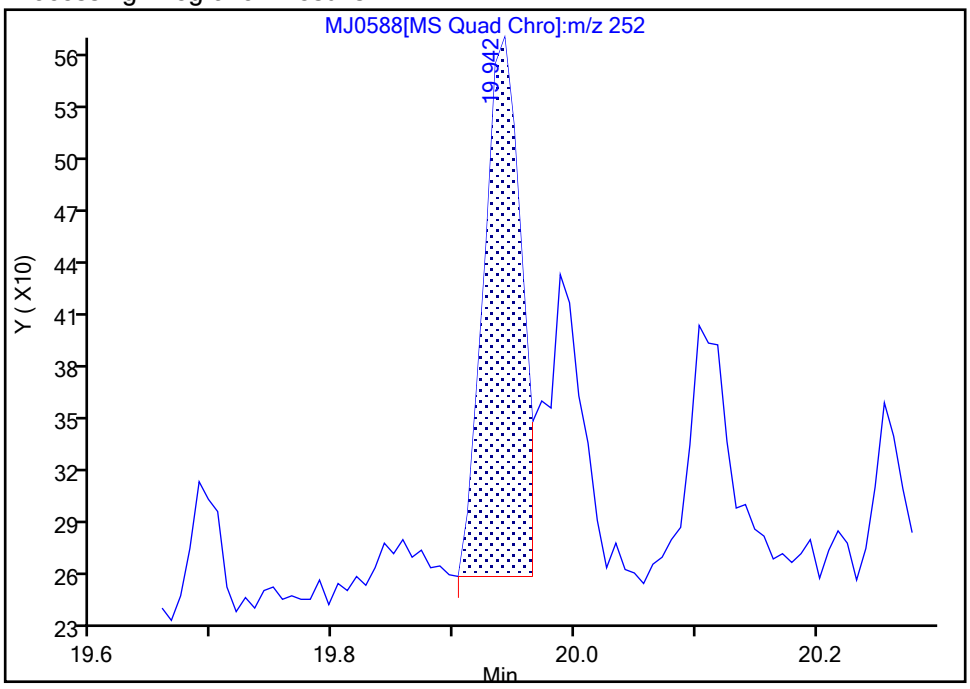
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

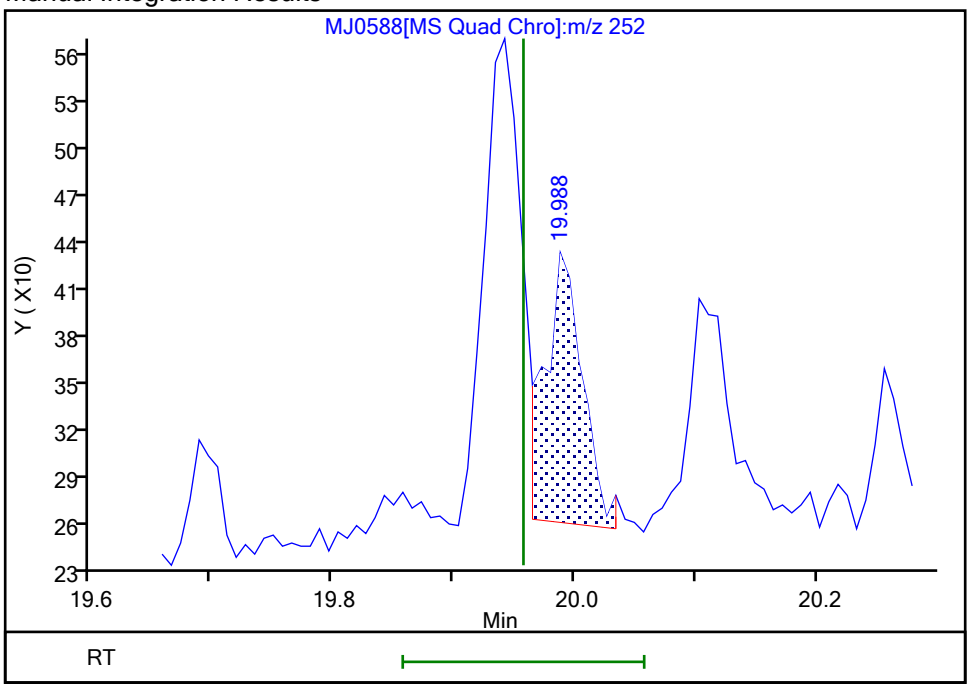
Processing Integration Results

RT: 19.94
Area: 646
Amount: 0.000585
Amount Units: ug/ml



Manual Integration Results

RT: 19.99
Area: 360
Amount: 0.000326
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:55:04

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

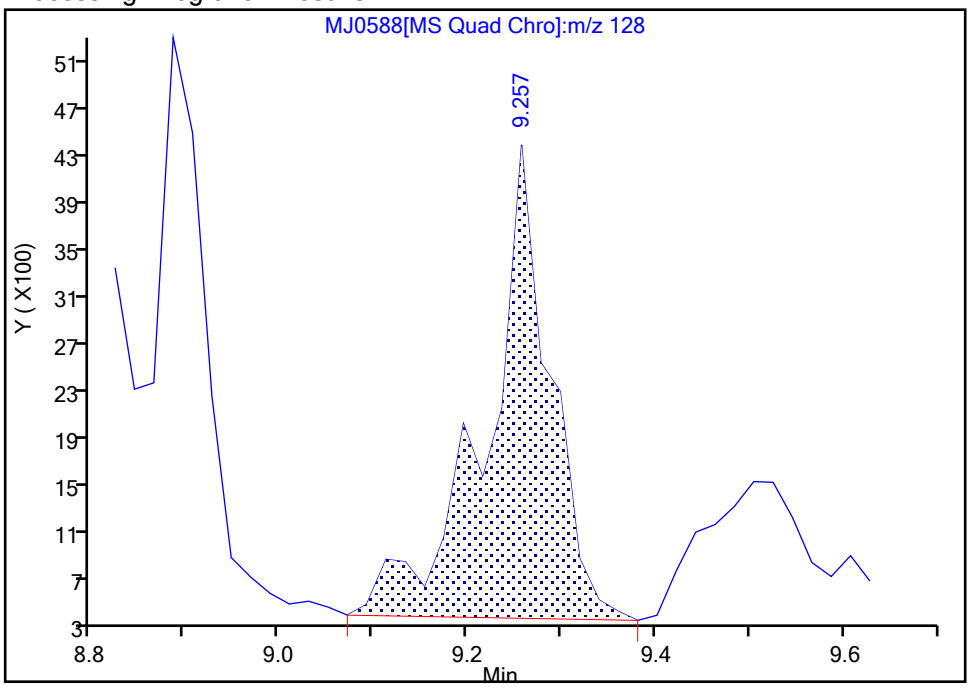
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Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

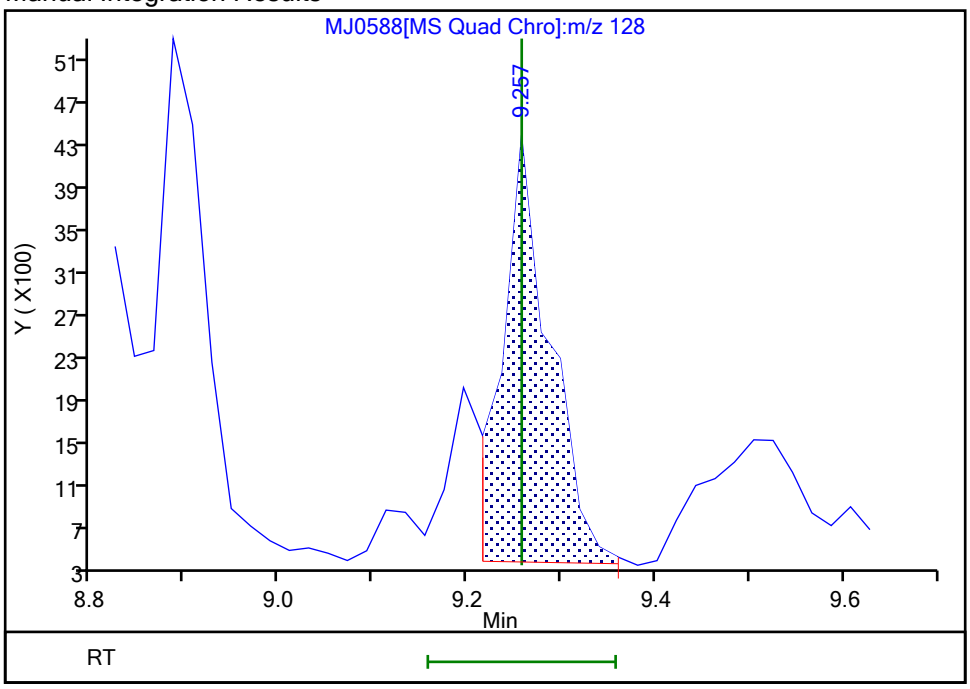
Processing Integration Results

RT: 9.26
Area: 18936
Amount: 0.019287
Amount Units: ug/ml



Manual Integration Results

RT: 9.26
Area: 13640
Amount: 0.013893
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:54:42

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

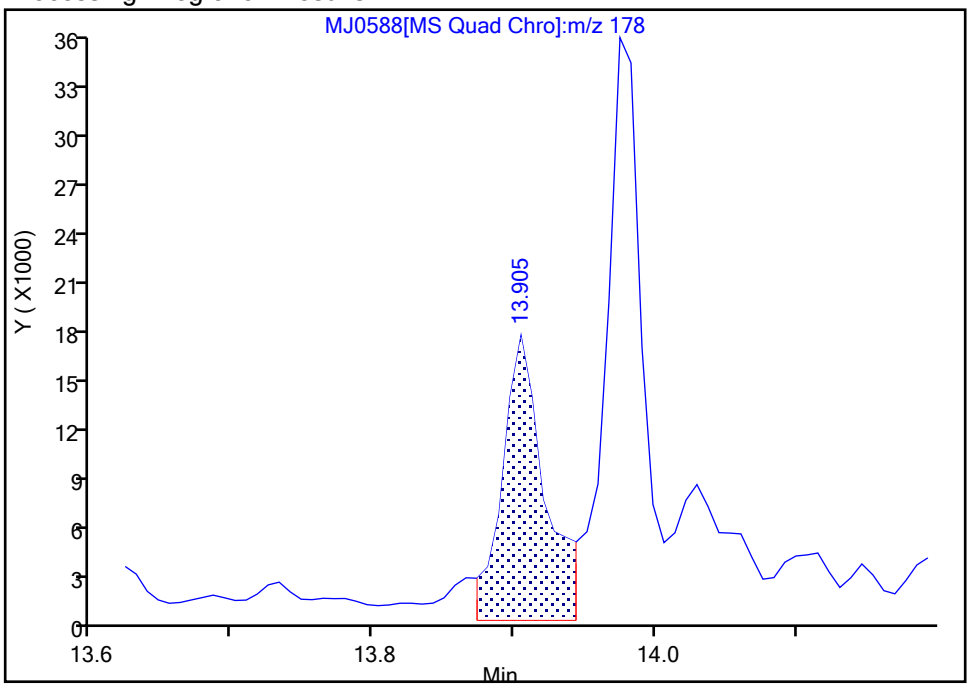
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Lims ID:	410-57303-A-15-A	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

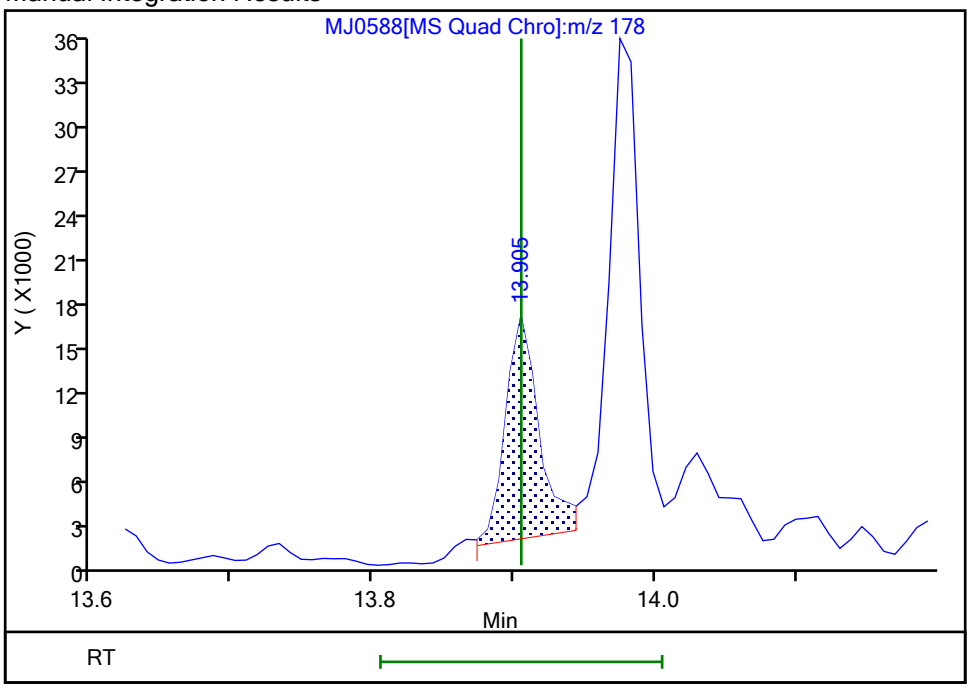
Processing Integration Results

RT: 13.90
Area: 35000
Amount: 0.035858
Amount Units: ug/ml



Manual Integration Results

RT: 13.90
Area: 23828
Amount: 0.024412
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 23:54:54

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-4S-20210929 RE Lab Sample ID: 410-57303-15 RE

Matrix: Ground Water Lab File ID: MJ0722.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 15:59

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 232.6(mL) Date Analyzed: 10/12/2021 13:59

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.: 181586 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*14*	*E H*	*0.054*	*0.011*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.054*	*0.011*
120-12-7	*Anthracene*	*0.22*	*H*	*0.054*	*0.011*
56-55-3	*Benzo[a]anthracene*	*ND*	*H*	*0.054*	*0.011*
50-32-8	*Benzo[a]pyrene*	*ND*	*H*	*0.054*	*0.011*
205-99-2	*Benzo[b]fluoranthene*	*ND*	*H*	*0.054*	*0.011*
191-24-2	*Benzo[g,h,i]perylene*	*ND*	*H*	*0.054*	*0.011*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.054*	*0.011*
218-01-9	*Chrysene*	*ND*	*H*	*0.054*	*0.011*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.054*	*0.021*
206-44-0	*Fluoranthene*	*4.3*	*H*	*0.054*	*0.011*
86-73-7	*Fluorene*	*6.5*	*H*	*0.054*	*0.011*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.054*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.075*	*0.032*
85-01-8	*Phenanthrene*	*0.065*	*J H*	*0.075*	*0.032*
129-00-0	*Pyrene*	*4.5*	*H*	*0.054*	*0.011*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		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\HP21585\20211012-41301.b\MJ0722.D
Lims ID: 410-57303-B-15-A RE
Client ID: MW-4S-20210929
Sample Type: Client
Inject. Date: 12-Oct-2021 13:59:46 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-15-A
Misc. Info.: 410-0041301-013
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:23:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	99	65260	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	245637	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	94383	0.1985	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	96	124736	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	93	2039415	3.21	E
17 Fluorene	166	12.671	12.679	-0.008	95	1136611	1.52	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	95	203024	0.2500	
21 Phenanthrene	178	13.912	13.912	-0.001	100	15938	0.0151	M
22 Anthracene	178	13.983	13.983	-0.008	100	48368	0.0502	M
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.605	-0.007	100	219253	0.2727	
25 Fluoranthene	202	15.621	15.628	-0.007	100	1107126	1.00	
26 Pyrene	202	15.979	15.979	-0.006	100	1309446	1.05	M
* 29 Chrysene-d12	240	18.055	18.055	0.000	89	188673	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.433	0.000	99	141984	0.1934	
* 38 Perylene-d12	264	20.555	20.556	-0.001	99	206346	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated

Reagents:

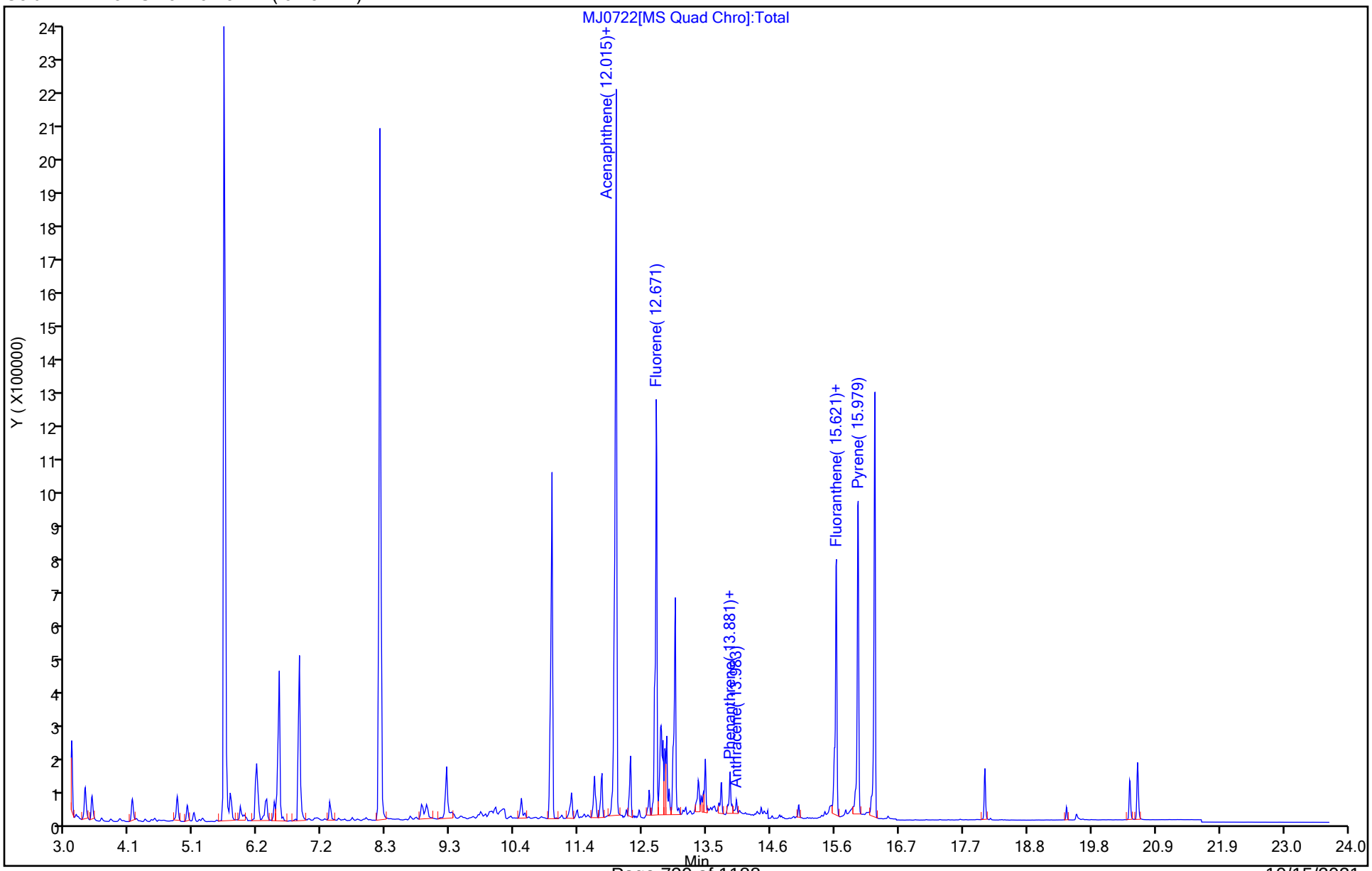
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 13-Oct-2021 08:30:55 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15	Worklist Smp#:	13
Client ID:	MW-4S-20210929				
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)



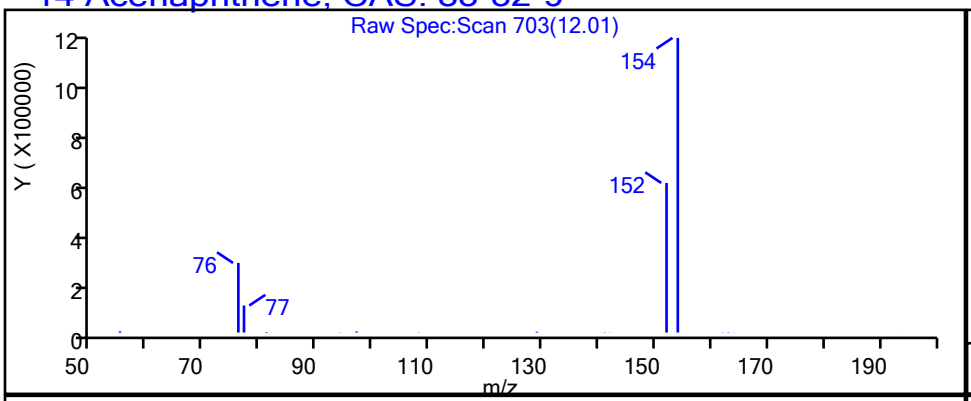
Report Date: 13-Oct-2021 08:30:55 Chrom Revision: 2.3 22-Sep-2021 15:38:46

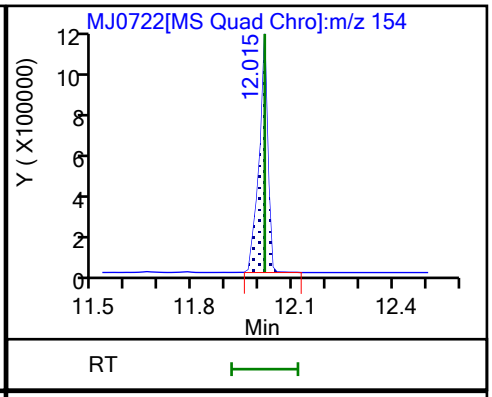
Eurofins Lancaster Laboratories Env, LLC

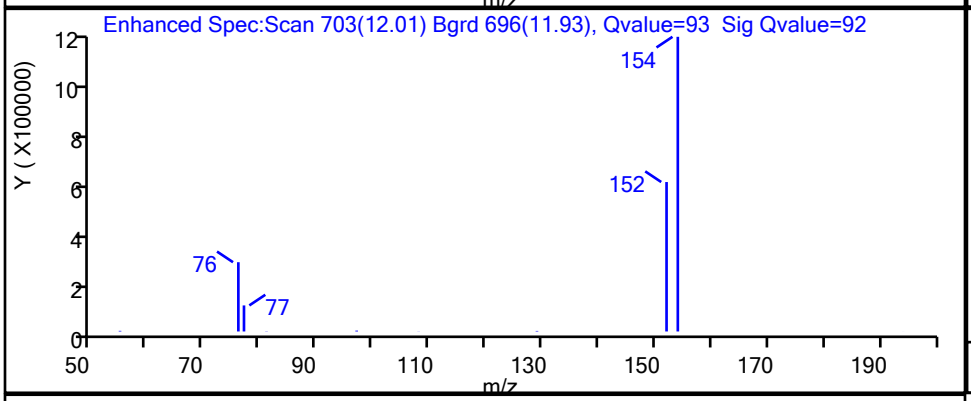
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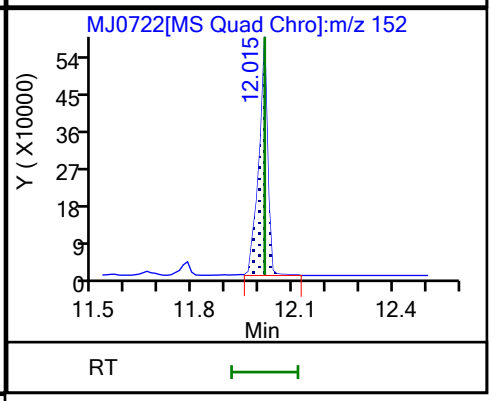
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

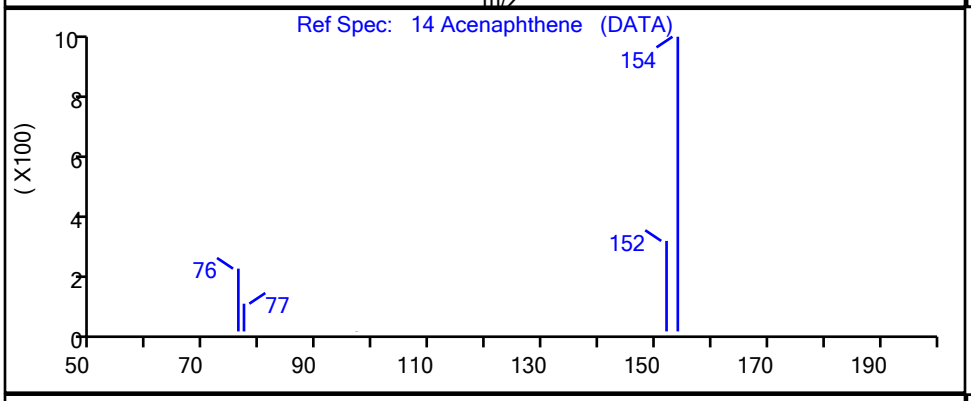
14 Acenaphthene, CAS: 83-32-9

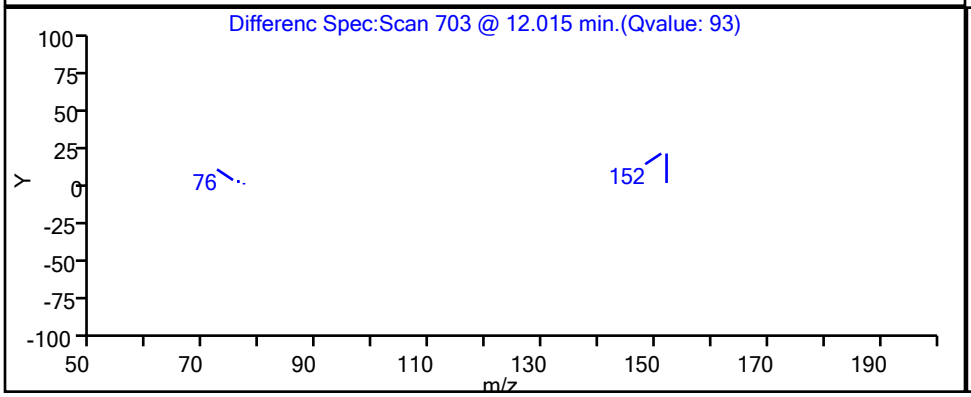


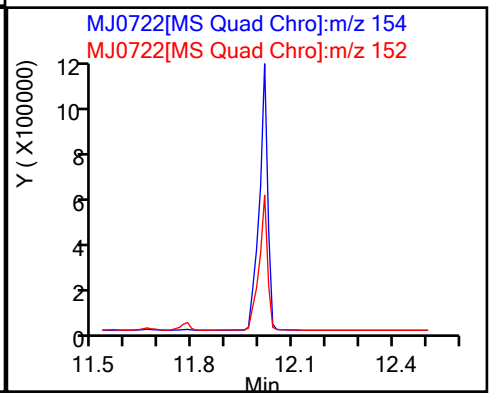












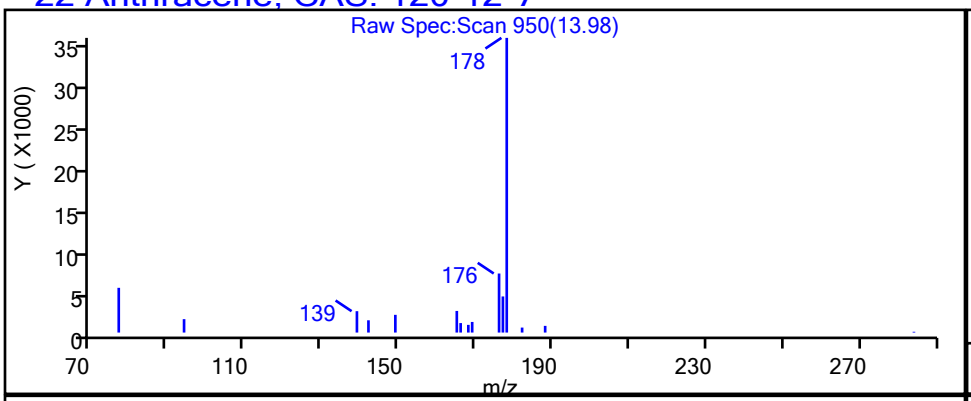
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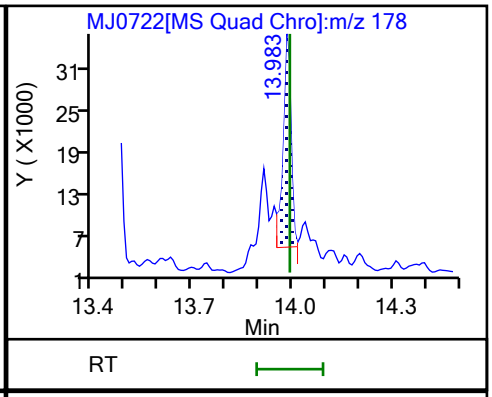
Eurofins Lancaster Laboratories Env, LLC

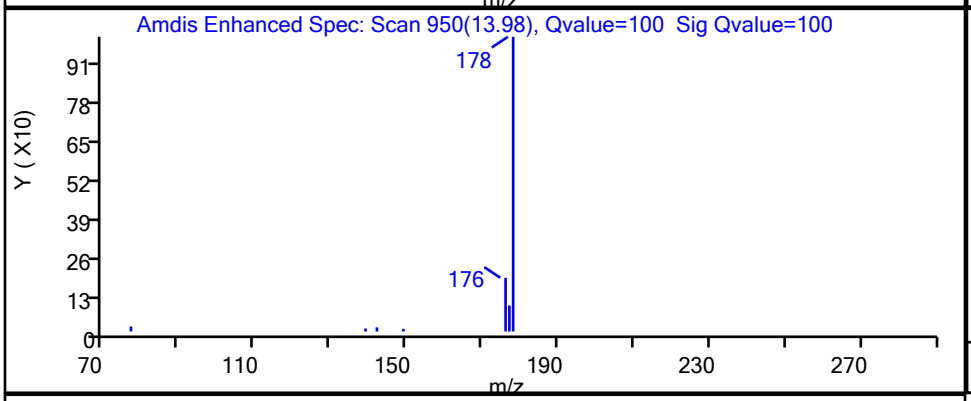
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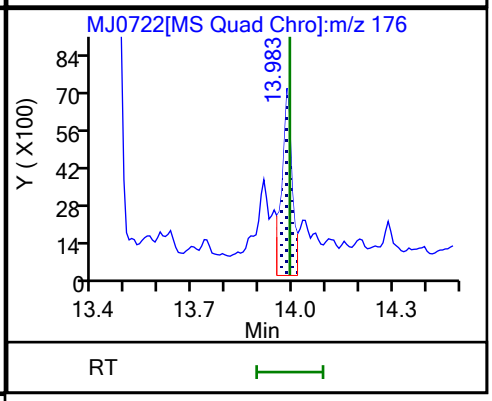
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

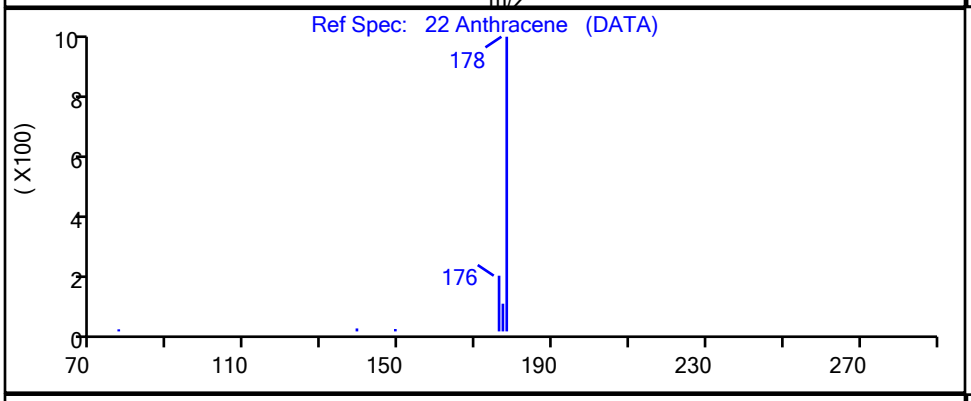
22 Anthracene, CAS: 120-12-7

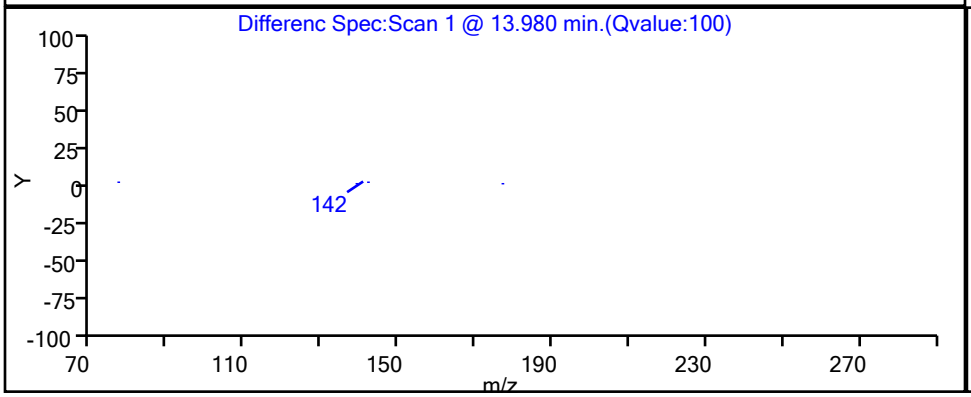


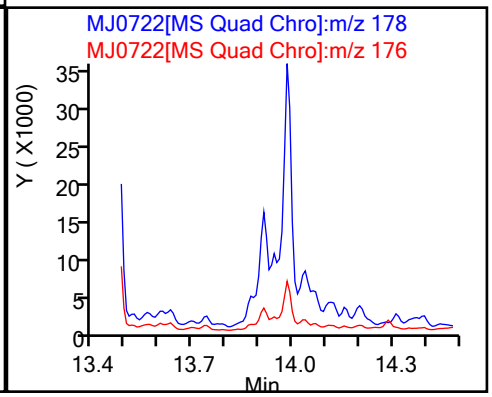










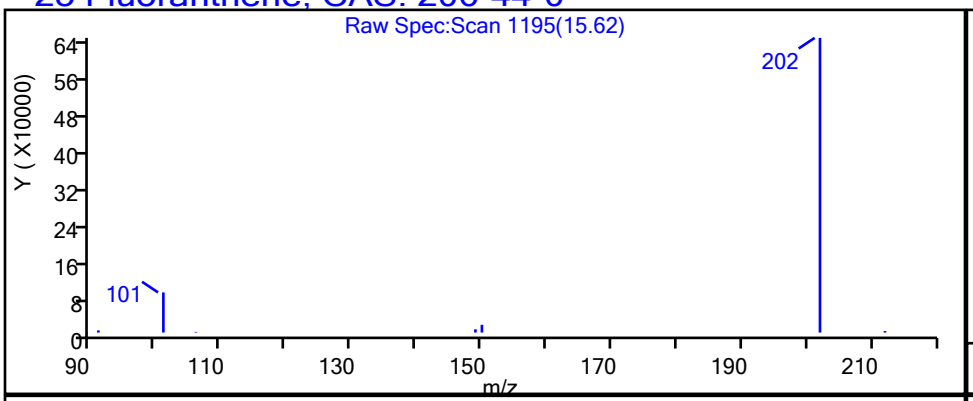


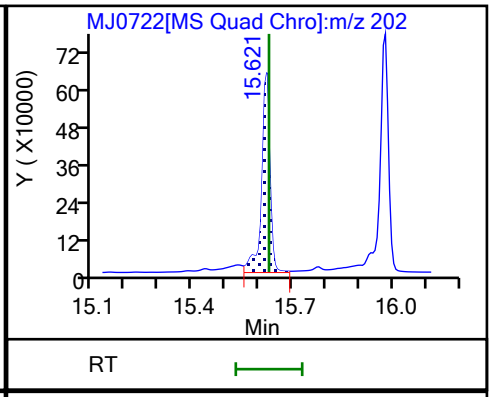
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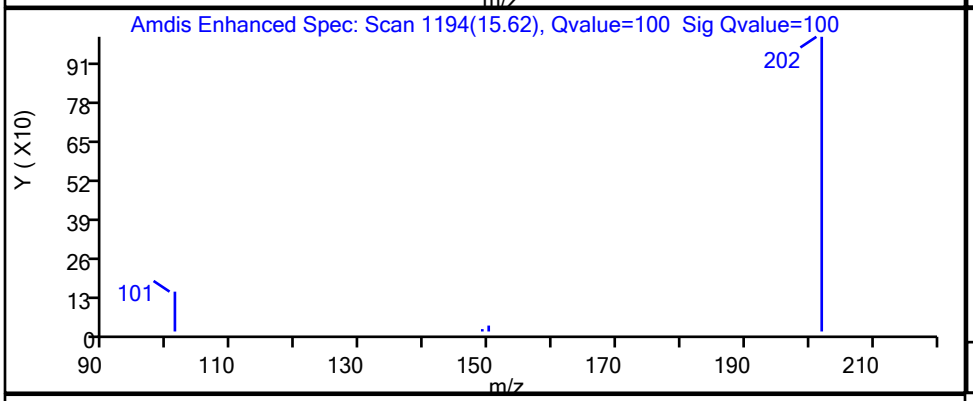
Eurofins Lancaster Laboratories Env, LLC

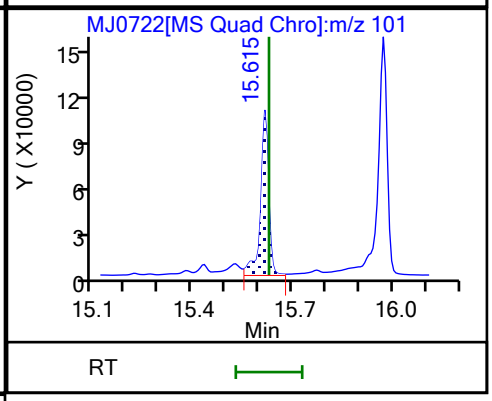
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Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15
Client ID:	MW-4S-20210929		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

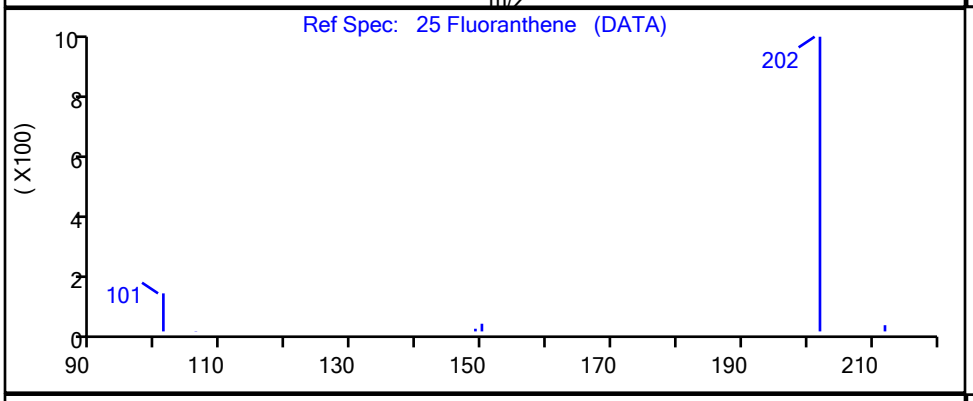
25 Fluoranthene, CAS: 206-44-0

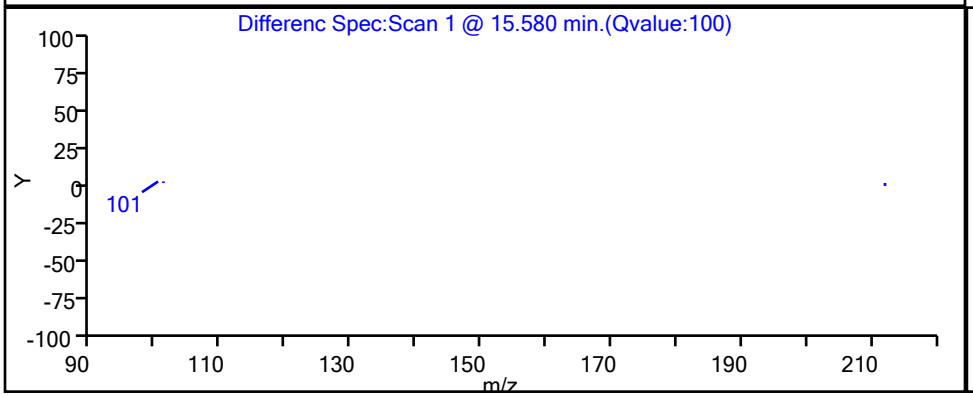


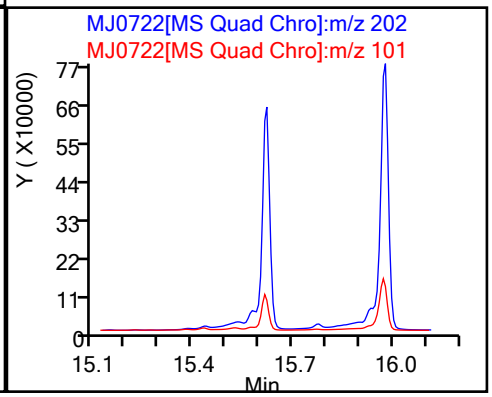












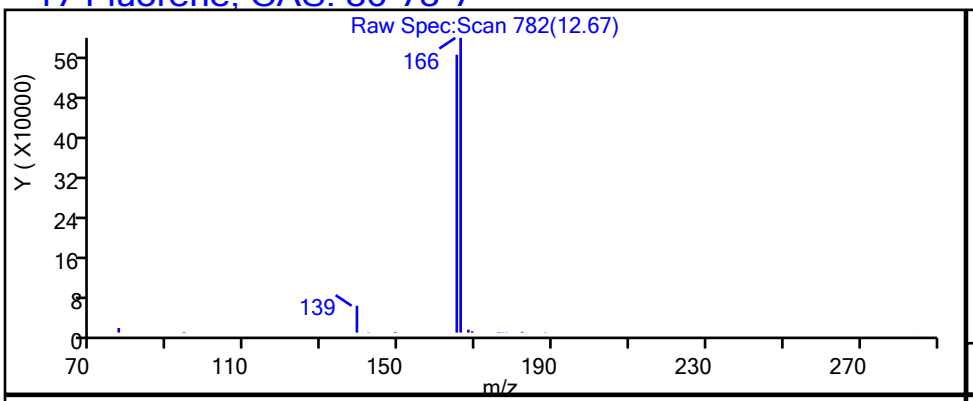
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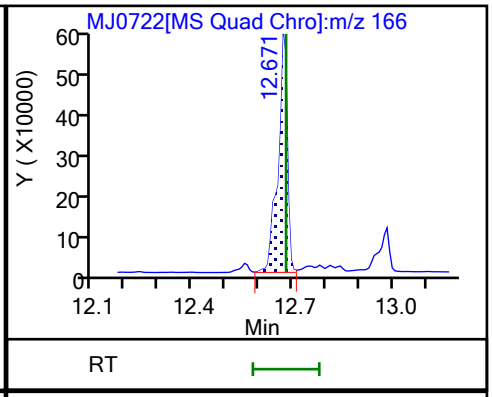
Eurofins Lancaster Laboratories Env, LLC

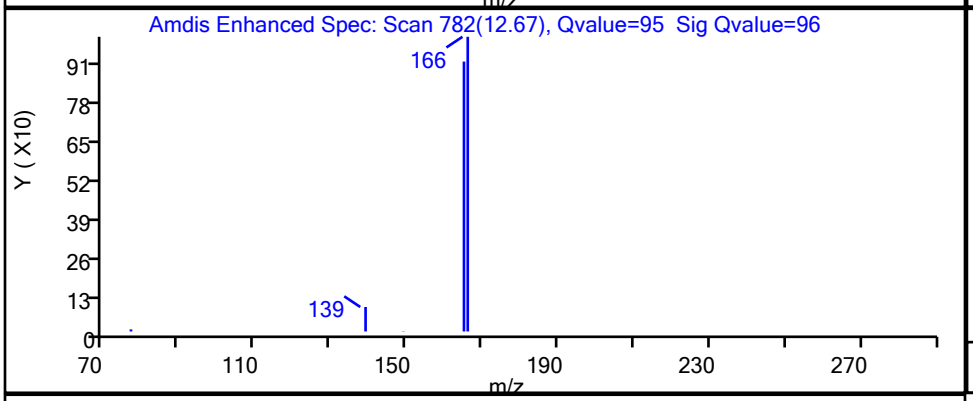
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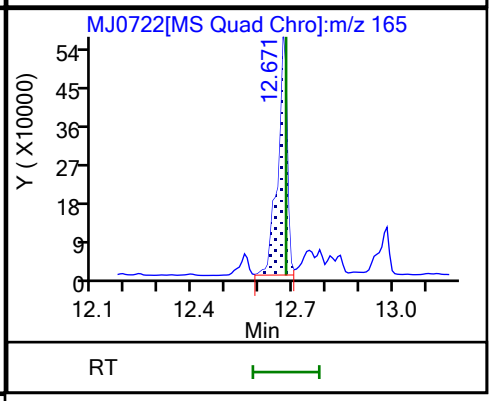
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

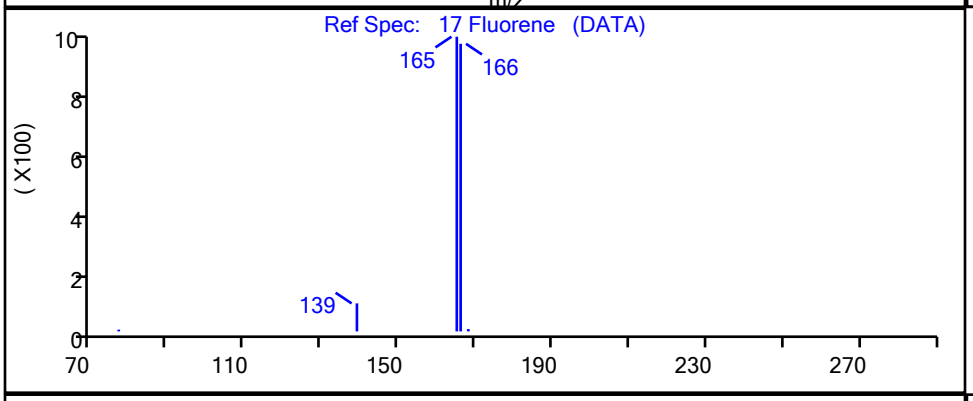
17 Fluorene, CAS: 86-73-7

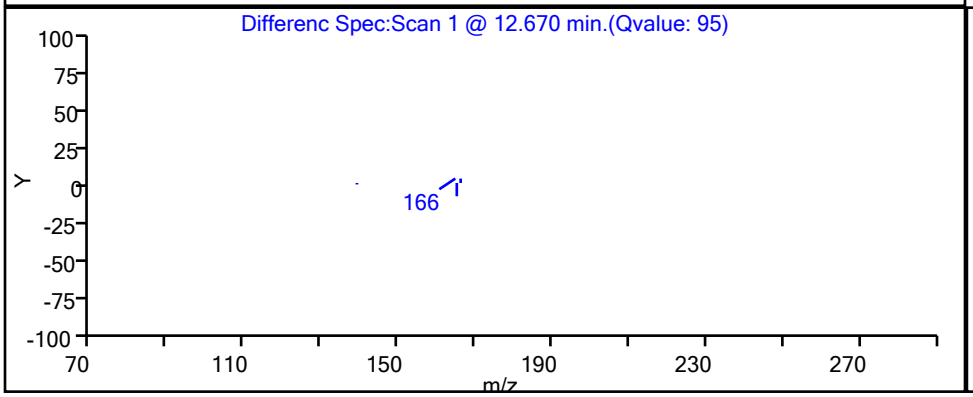


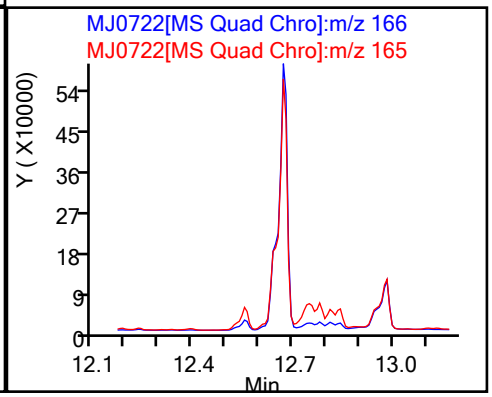










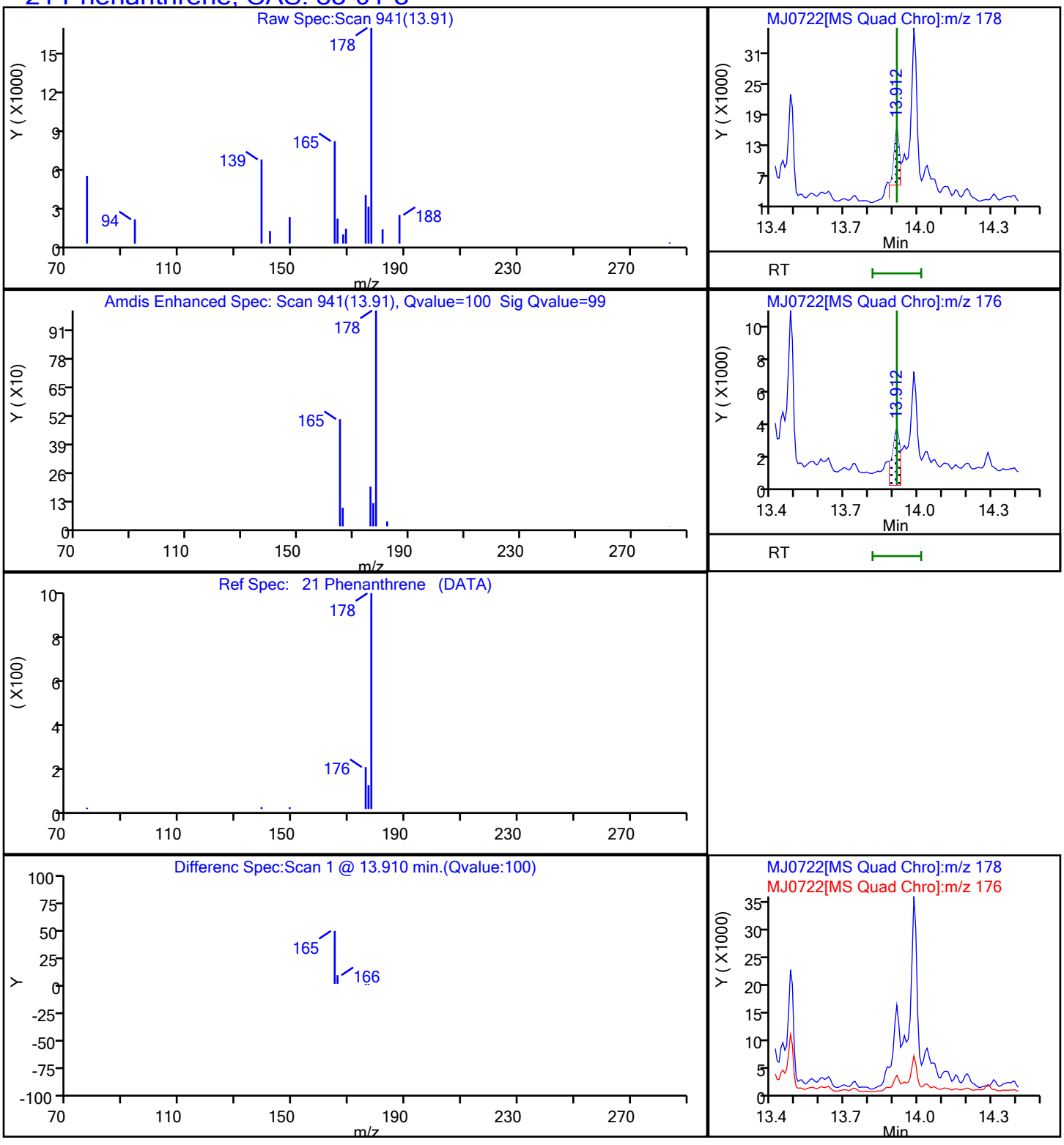


Report Date: 13-Oct-2021 08:30:55 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0722.D				
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	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



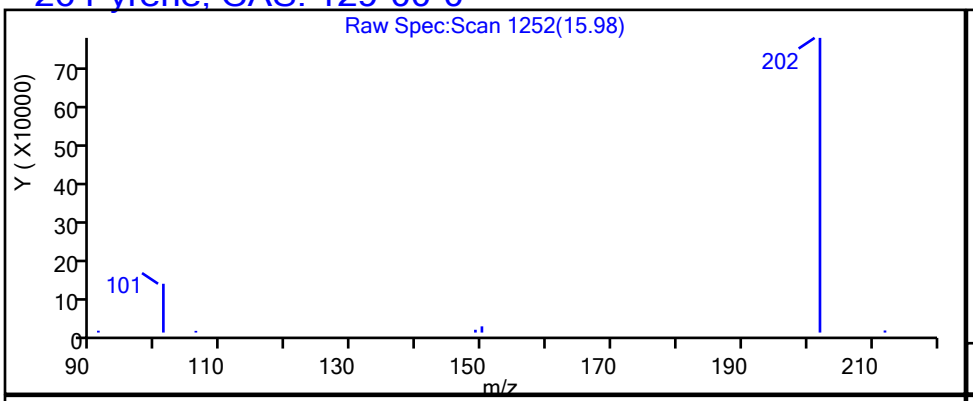
Report Date: 13-Oct-2021 08:30:55 Chrom Revision: 2.3 22-Sep-2021 15:38:46

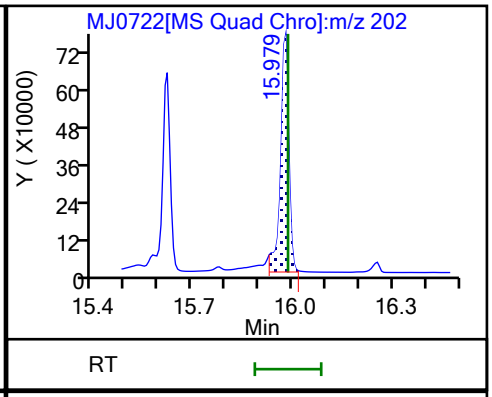
Eurofins Lancaster Laboratories Env, LLC

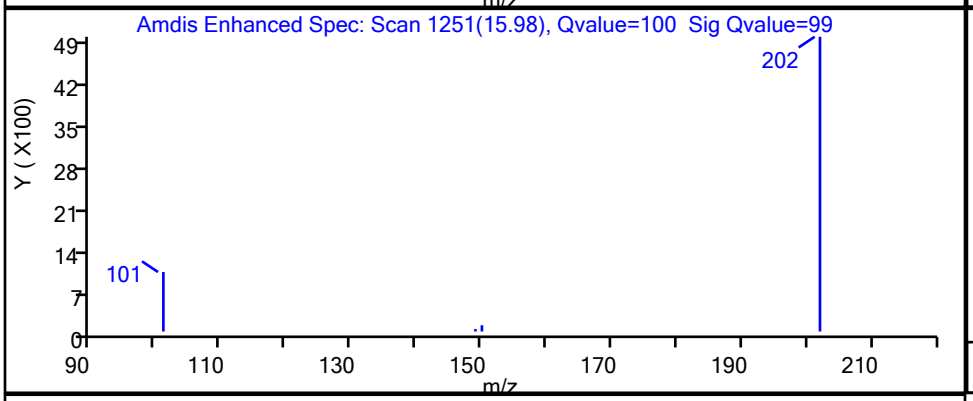
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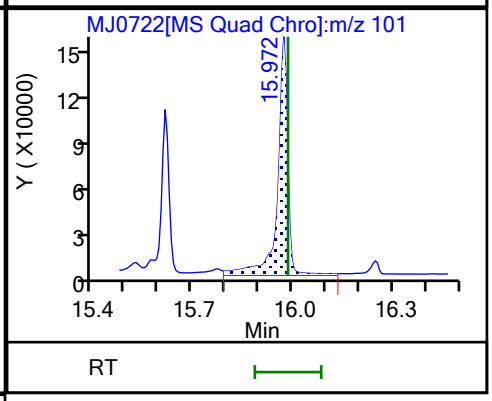
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

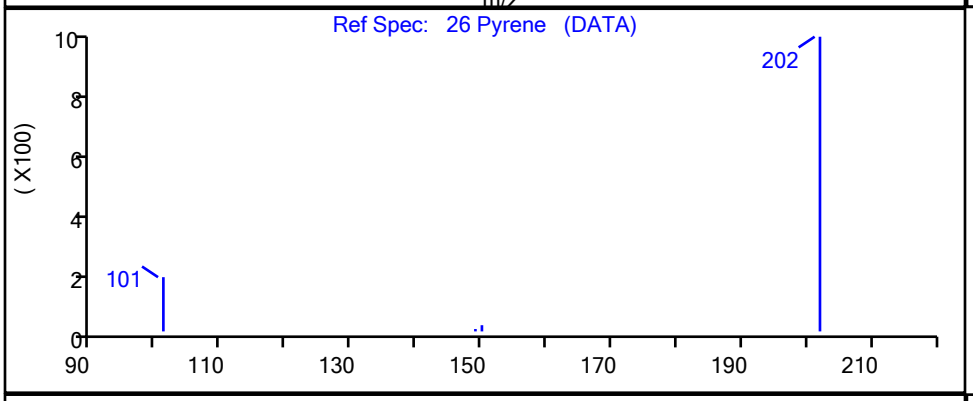
26 Pyrene, CAS: 129-00-0

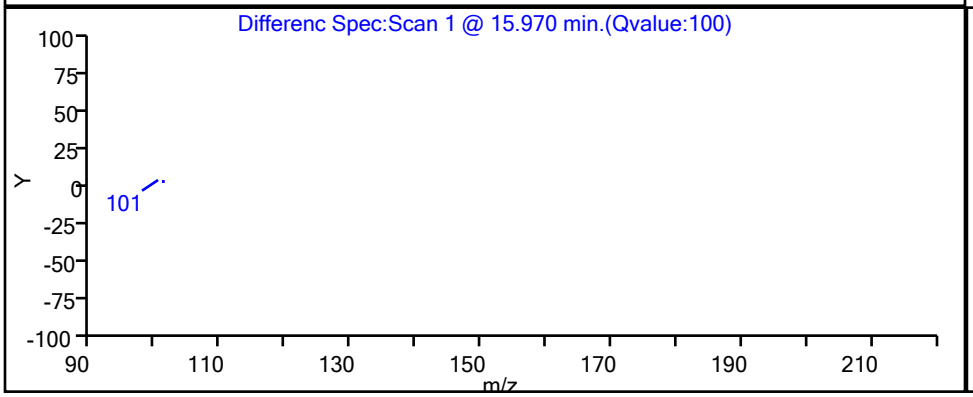


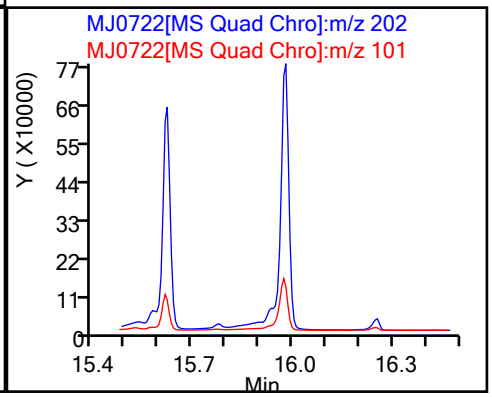












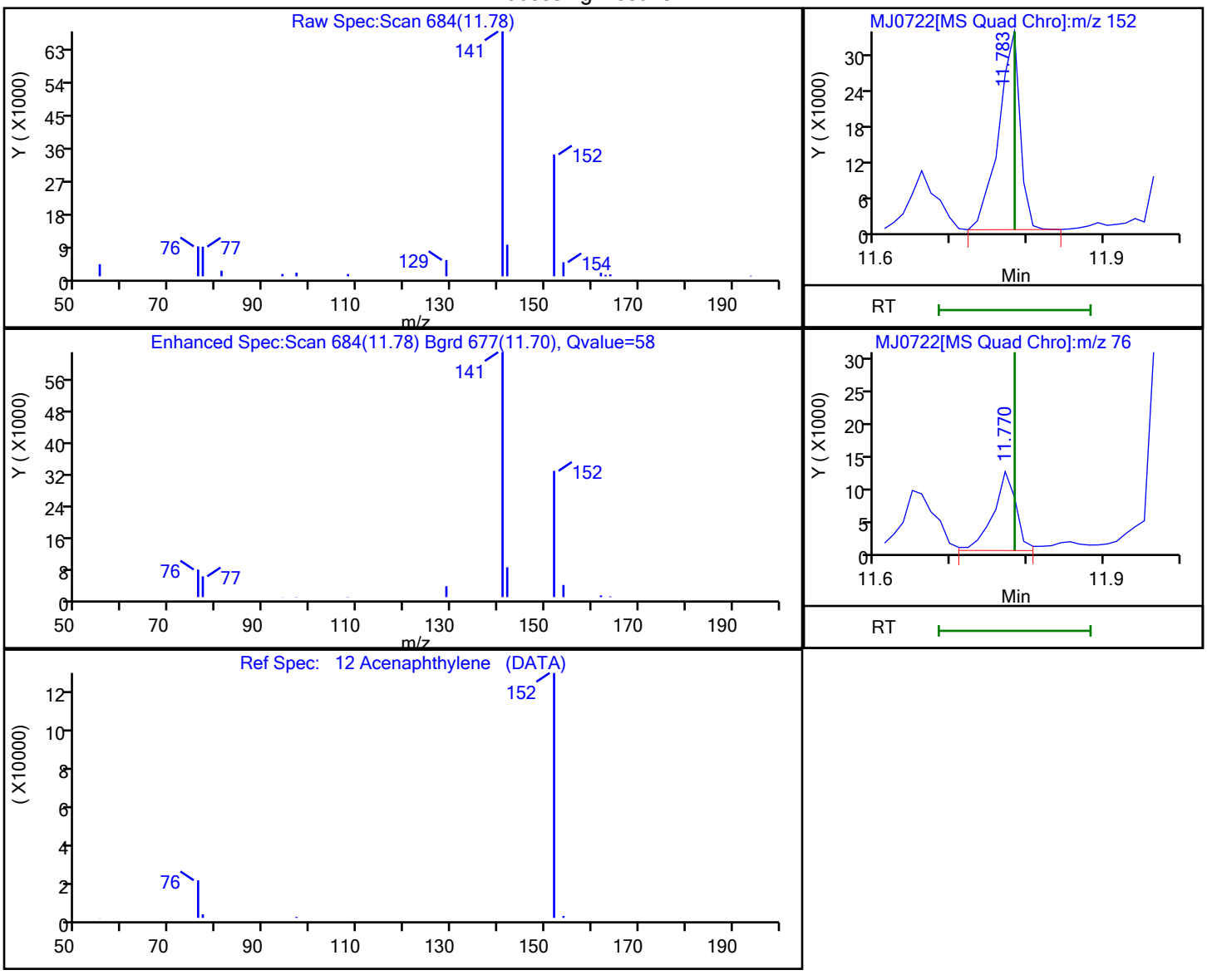
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0722.D				
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	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		

12 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
11.78	152.00	64677	0.061918
11.77	76.00	24951	

Reviewer: gamblerj, 13-Oct-2021 08:22:37

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

Eurofins Lancaster Laboratories Env, LLC

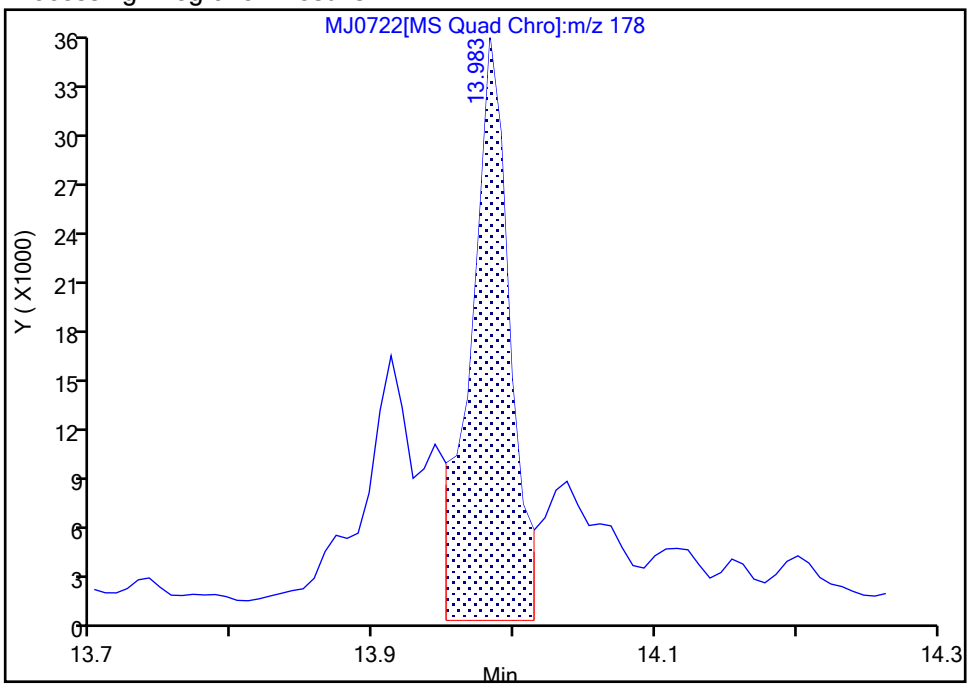
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Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

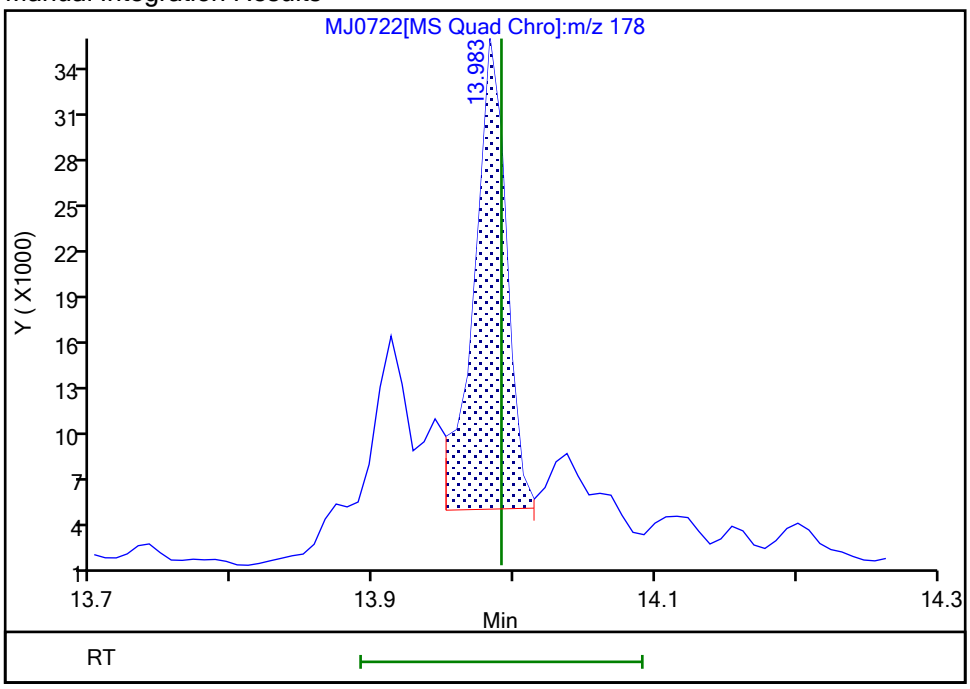
Processing Integration Results

RT: 13.98
Area: 66511
Amount: 0.069053
Amount Units: ug/ml



Manual Integration Results

RT: 13.98
Area: 48368
Amount: 0.050217
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:23:27
Audit Action: Manually Integrated Audit Reason: Baseline

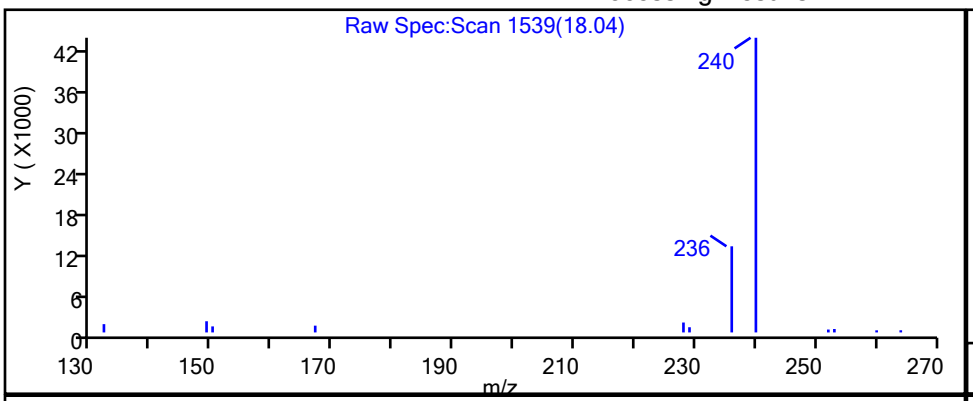
User Disabled Compound Report

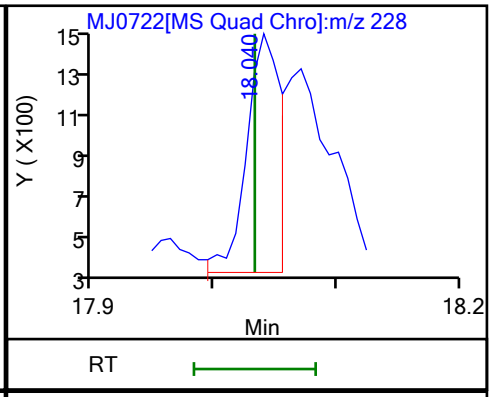
Eurofins Lancaster Laboratories Env, LLC

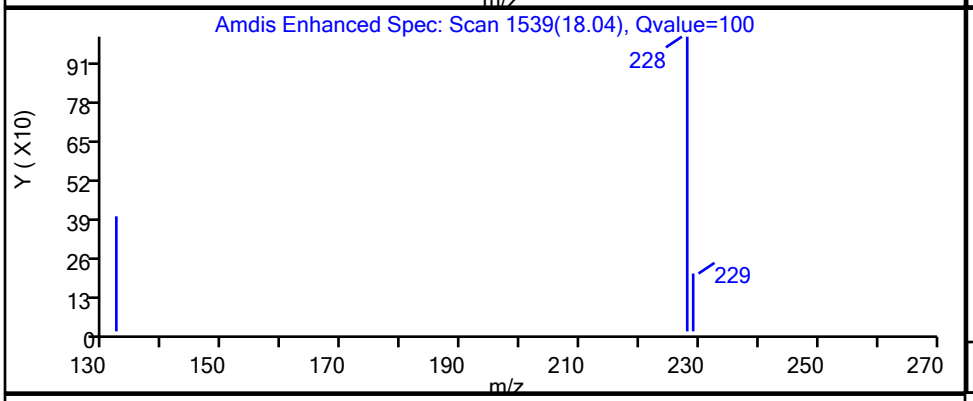
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Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

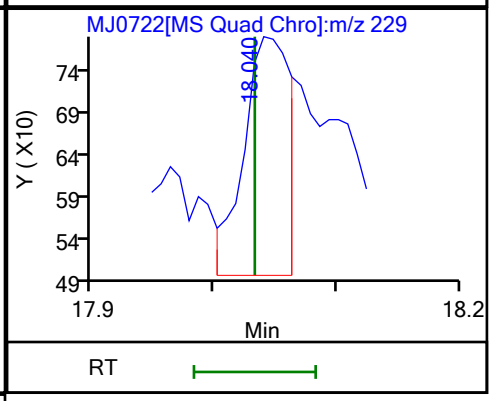
28 Benzo[a]anthracene, CAS: 56-55-3

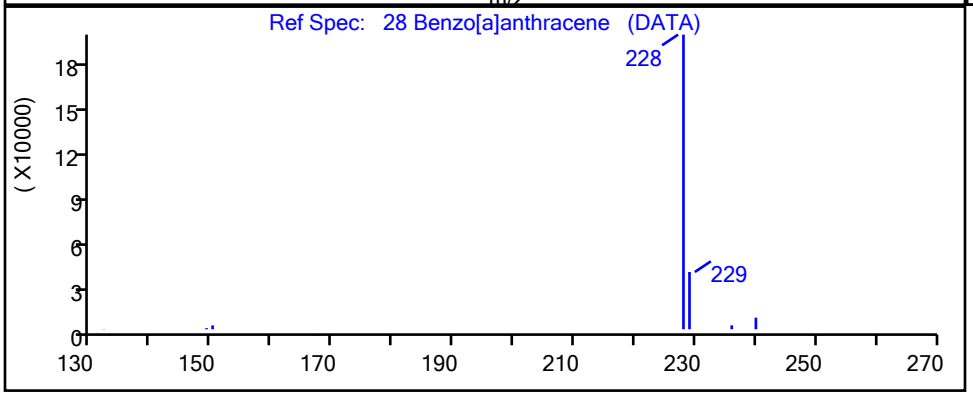
Processing Results











RT	Mass	Response	Amount
18.04	228.00	1942	0.001790
18.04	229.00	691	

Reviewer: gamblerj, 13-Oct-2021 08:23:37

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

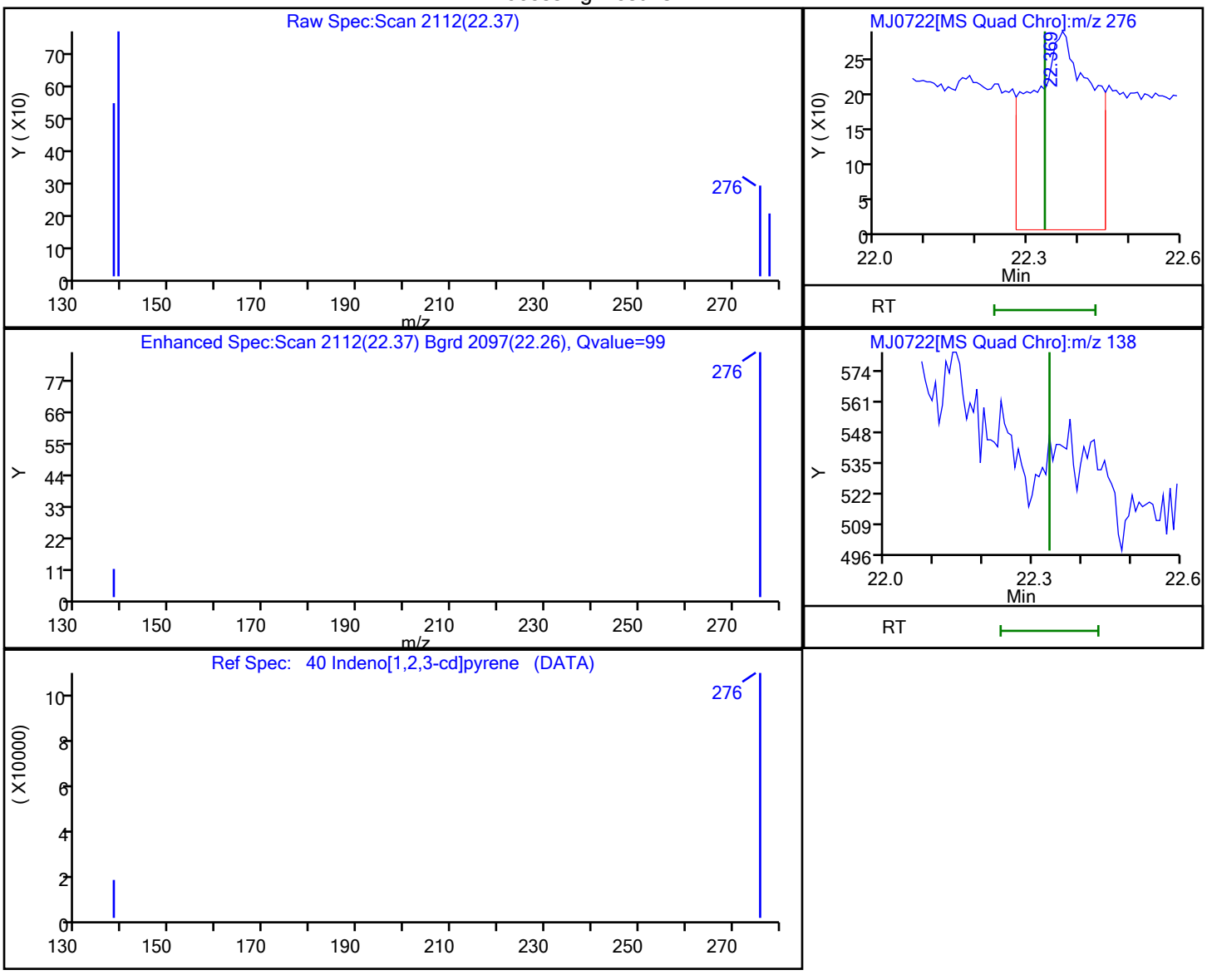
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0722.D				
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	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
22.37	276.00	2328	0.002657
22.33	138.00	0	

Reviewer: gamblerj, 13-Oct-2021 08:23:41

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

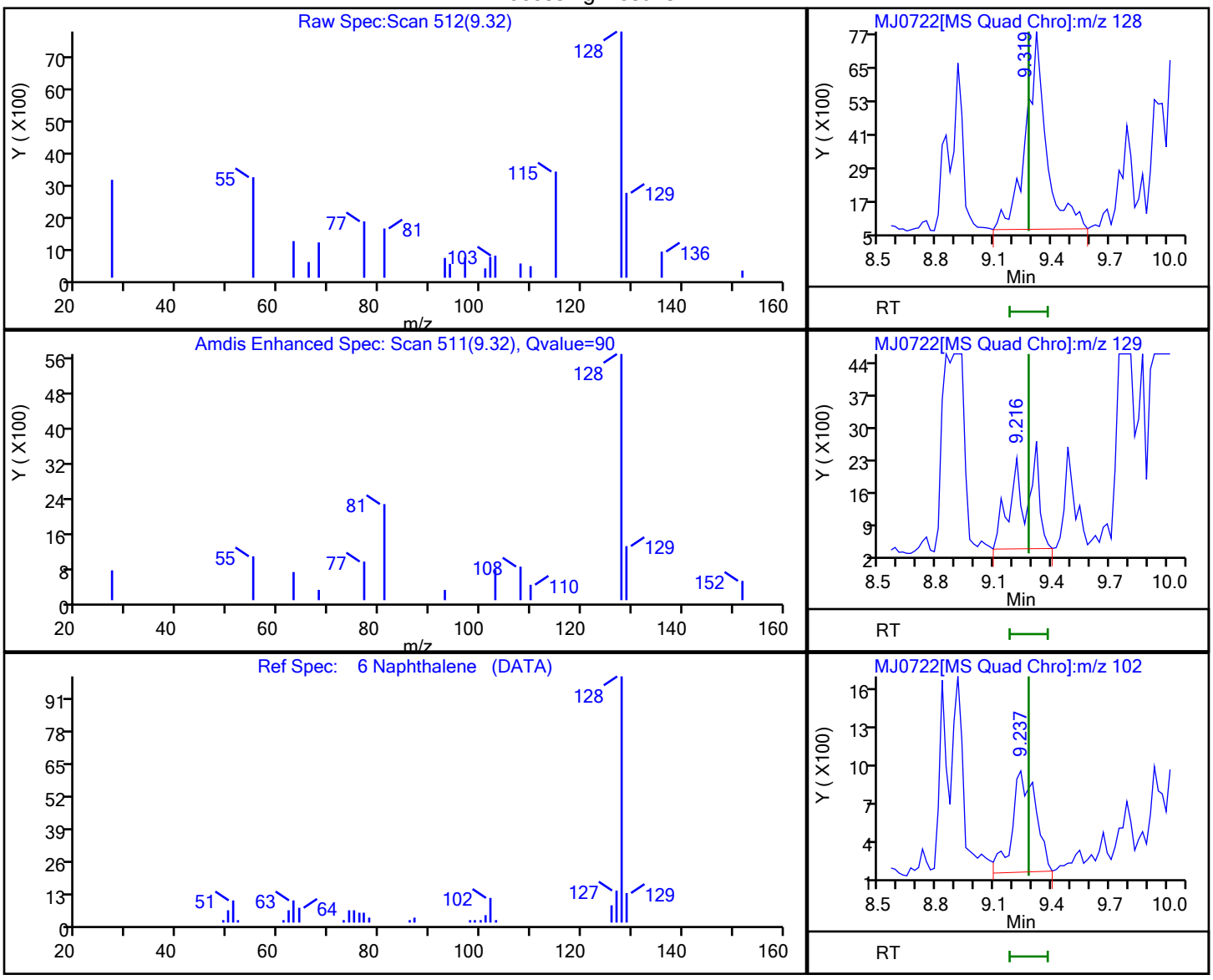
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0722.D				
Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	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		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
9.32	128.00	52901	0.046360
9.22	129.00	16658	
9.24	102.00	6440	

Reviewer: gamblerj, 13-Oct-2021 08:22:33

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

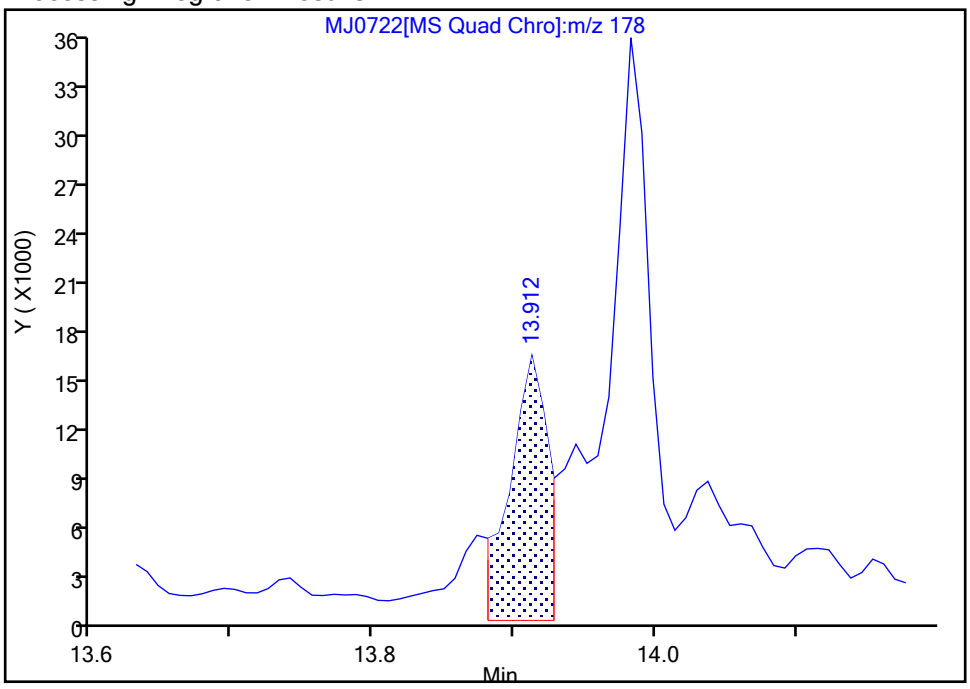
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Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

Signal: 1

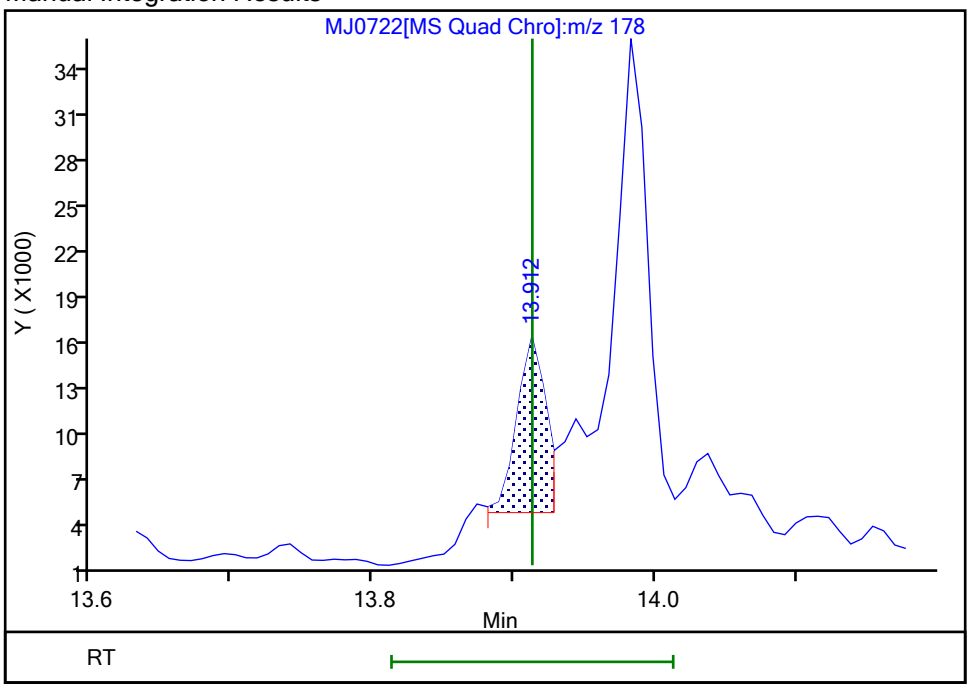
Processing Integration Results

RT: 13.91
Area: 28917
Amount: 0.027474
Amount Units: ug/ml



Manual Integration Results

RT: 13.91
Area: 15938
Amount: 0.015143
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:23:20

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

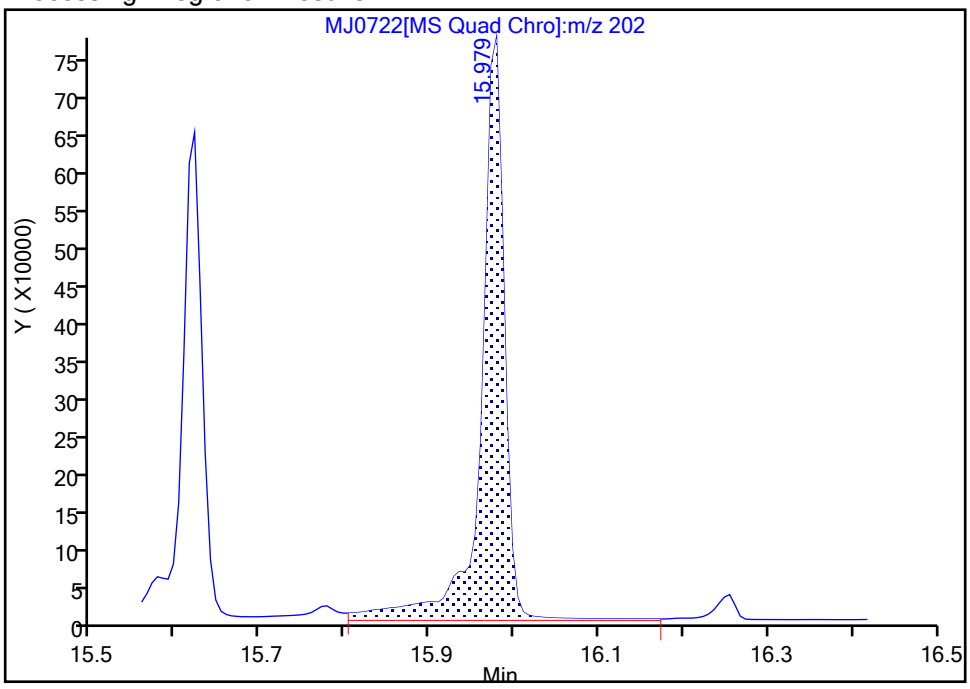
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Injection Date:	12-Oct-2021 13:59:46	Instrument ID:	HP21585		
Lims ID:	410-57303-B-15-A RE	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

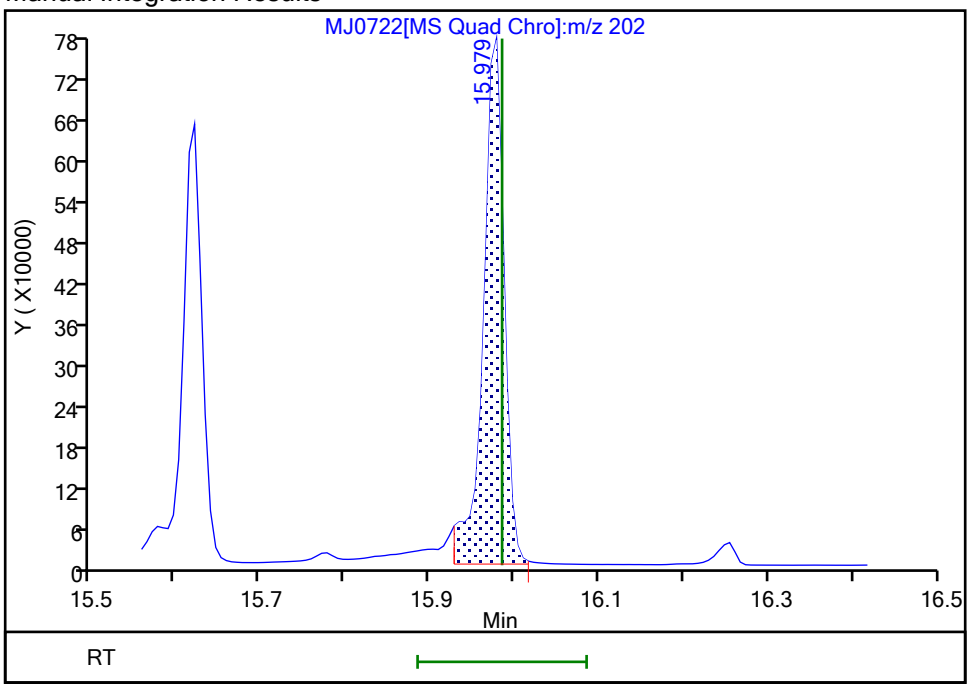
Processing Integration Results

RT: 15.98
Area: 1499685
Amount: 1.196998
Amount Units: ug/ml



Manual Integration Results

RT: 15.98
Area: 1309446
Amount: 1.045156
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:23:34
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-4S-20210929 DL Lab Sample ID: 410-57303-15 DL

Matrix: Ground Water Lab File ID: MJ0589.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 15:59

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 234.4(mL) Date Analyzed: 10/08/2021 17:49

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 180407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	16		0.27	0.053

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)	100		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0589.D				
Lims ID:	410-57303-A-15-A DL				
Client ID:	MW-4S-20210929				
Sample Type:	Client				
Inject. Date:	08-Oct-2021 17:49:30	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	410-57303-A-15-A				
Misc. Info.:	410-0041033-064				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	09-Oct-2021 23:55:53	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1679				
First Level Reviewer: saadehw		Date:	09-Oct-2021 23:55:35		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.320	0.000	91	51348	0.2500	
* 5 Naphthalene-d8	136	9.237	9.216	0.021	93	184284	0.2500	
6 Naphthalene	128	9.257	9.257	-0.001	94	74838	0.0874	M
$ 9 1-Methylnaphthalene-d10	152	10.462	10.473	0.012	100	14839	0.0416	
12 Acenaphthylene	152	11.783	11.783	0.012	51	10491	0.0133	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	96	94142	0.2500	
14 Acenaphthene	154	12.003	12.003	0.000	92	368404	0.7688	
17 Fluorene	166	12.671	12.671	0.000	95	192335	0.3415	M
* 20 Phenanthrene-d10	188	13.881	13.874	0.007	95	156721	0.2500	
21 Phenanthrene	178	13.912	13.905	0.007	100	14007	0.0172	
22 Anthracene	178	14.006	13.975	0.031	100	14757	0.0198	
$ 24 Fluoranthene-d10 (Surr)	212	15.590	15.592	0.006	100	30891	0.0498	
25 Fluoranthene	202	15.621	15.622	0.006	100	188558	0.2200	
26 Pyrene	202	15.972	15.986	-0.001	100	241397	0.2451	
* 29 Chrysene-d12	240	18.055	18.040	0.015	64	148288	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.417	0.023	100	19284	0.0364	
* 38 Perylene-d12	264	20.555	20.548	0.007	99	148756	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

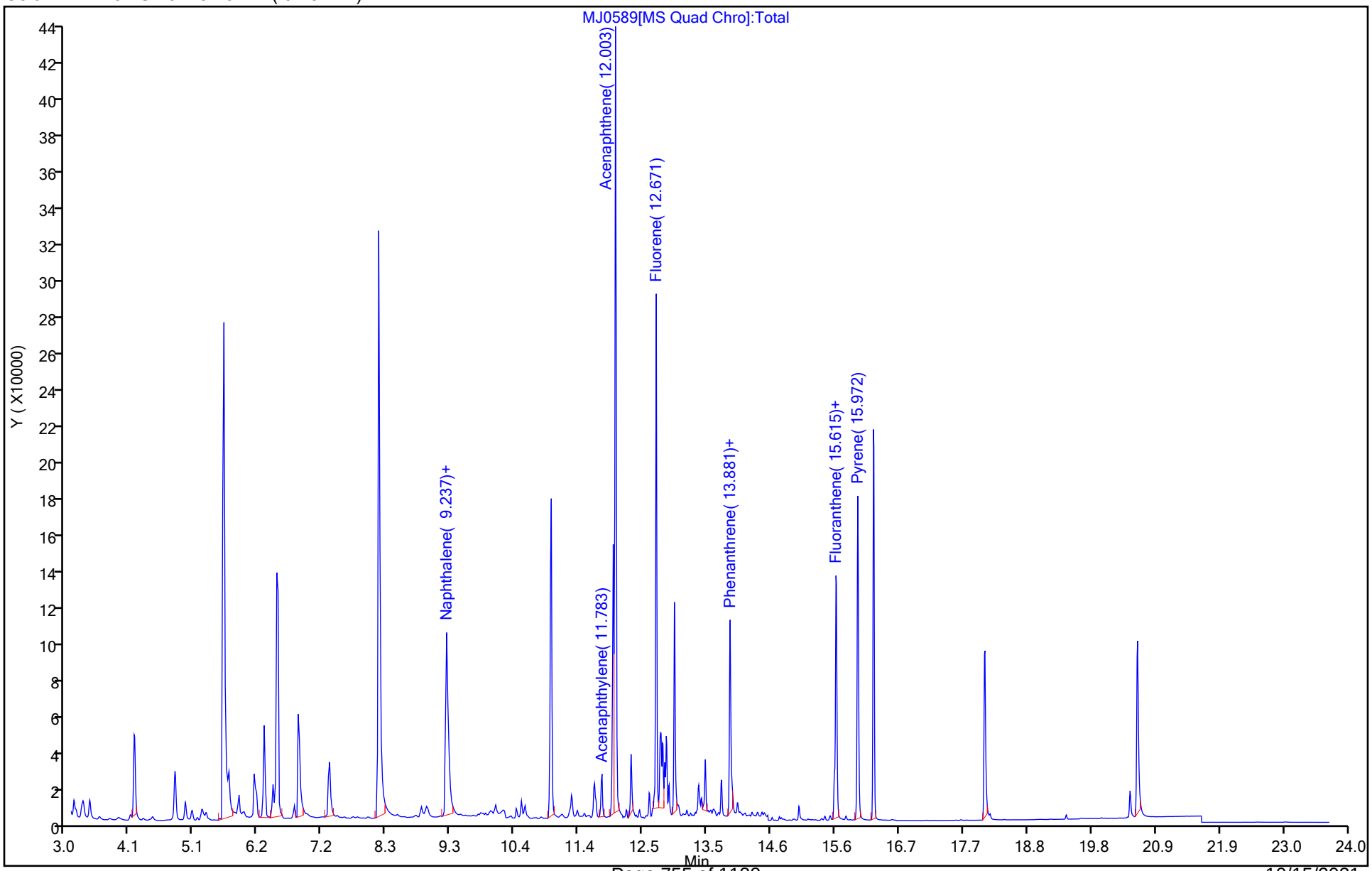
Report Date: 09-Oct-2021 23:56:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0589.D

Injection Date:	08-Oct-2021 17:49:30	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-15-A DL	Lab Sample ID:	410-57303-15	Worklist Smp#:	64
Client ID:	MW-4S-20210929				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



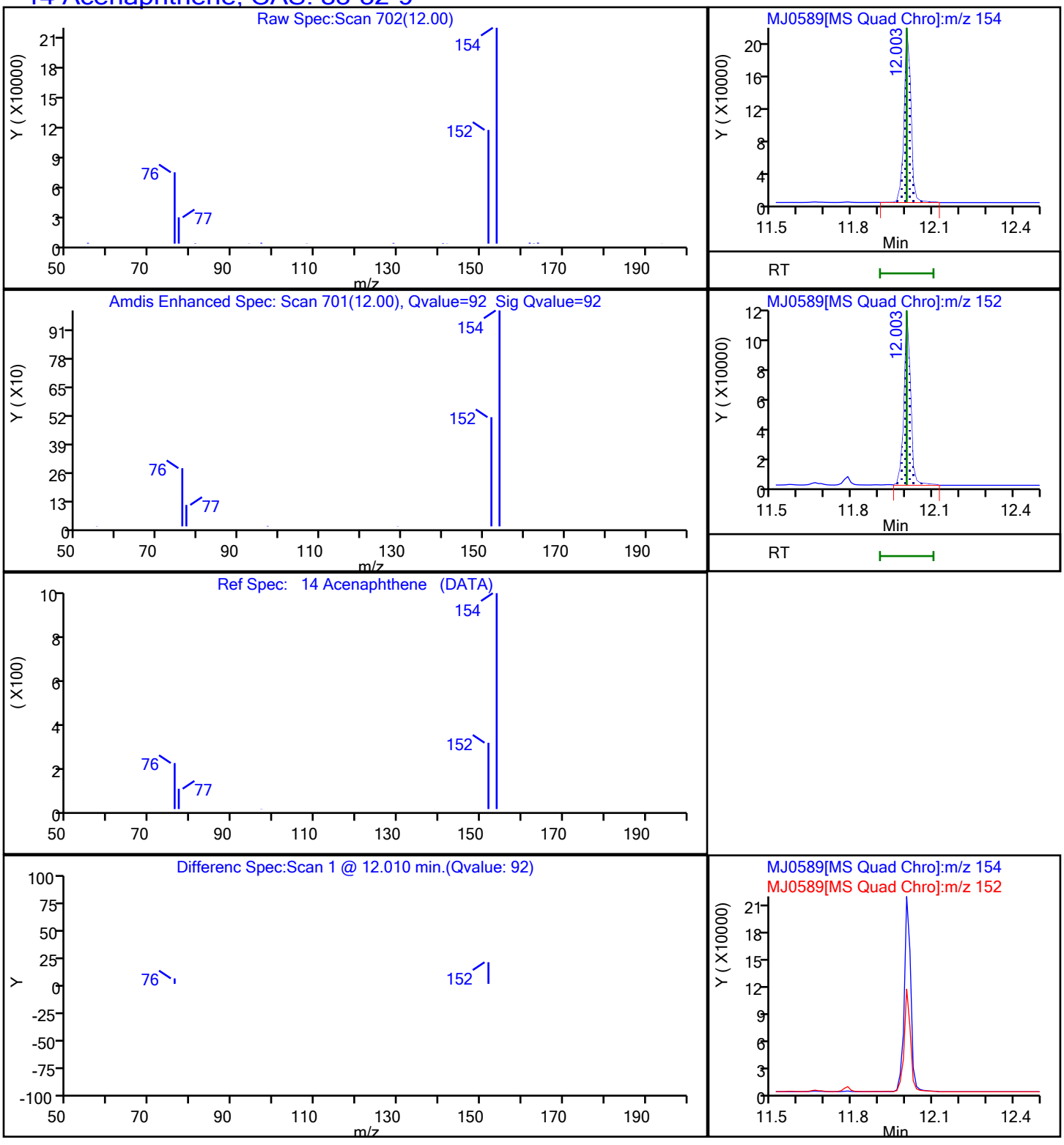
Report Date: 09-Oct-2021 23:56:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0589.D

Injection Date:	08-Oct-2021 17:49:30	Instrument ID:	HP21585		
Lims ID:	410-57303-A-15-A DL	Lab Sample ID:	410-57303-15		
Client ID:	MW-4S-20210929				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
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



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-4D-20210929 Lab Sample ID: 410-57303-16

Matrix: Ground Water Lab File ID: MJ0624.D

Analysis Method: 8270D SIM Date Collected: 09/29/2021 16:38

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 244.5(mL) Date Analyzed: 10/10/2021 00:20

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.: 180937 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		0.072	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)	45		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	70		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\20211009-41150.b\MJ0624.D				
Lims ID:	410-57303-A-16-A				
Client ID:	MW-4D-20210929				
Sample Type:	Client				
Inject. Date:	10-Oct-2021 00:20:12	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-57303-A-16-A				
Misc. Info.:	410-0041150-022				
Operator ID:	whs02991	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	10-Oct-2021 21:31:53	Calib Date:	20-Aug-2021 09:08:31		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1610				
First Level Reviewer: saadehw		Date:	10-Oct-2021 21:31:53		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.341	7.341	0.000	95	61704	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	219318	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.475	10.462	0.001	100	73775	0.1738	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	98	109656	0.2500	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	95	194701	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.596	0.000	100	161426	0.2093	
* 29 Chrysene-d12	240	18.055	18.047	0.008	63	171795	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.433	20.417	0.008	100	72469	0.1133	
* 38 Perylene-d12	264	20.555	20.555	0.000	99	179845	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.468	22.468	0.134	98	544	0.000712	7Ma
42 Benzo[g,h,i]perylene	276	22.948	22.948	0.127	100	564	0.000604	7a

QC Flag Legend

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

Reagents:

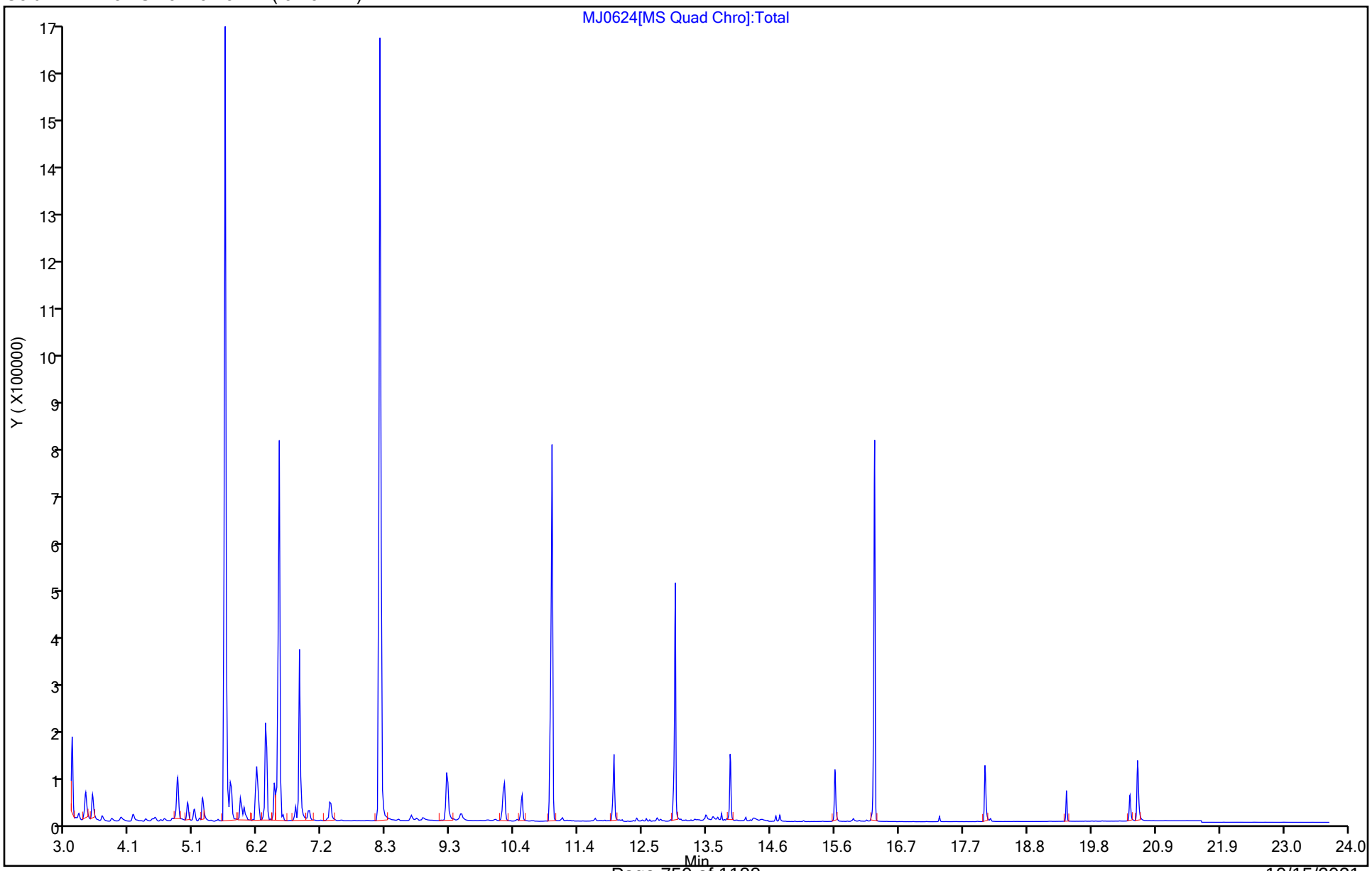
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 10-Oct-2021 21:36:31 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0624.D				
Injection Date:	10-Oct-2021 00:20:12	Instrument ID:	HP21585	Operator ID:	whs02991
Lims ID:	410-57303-A-16-A	Lab Sample ID:	410-57303-16	Worklist Smp#:	22
Client ID:	MW-4D-20210929				
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

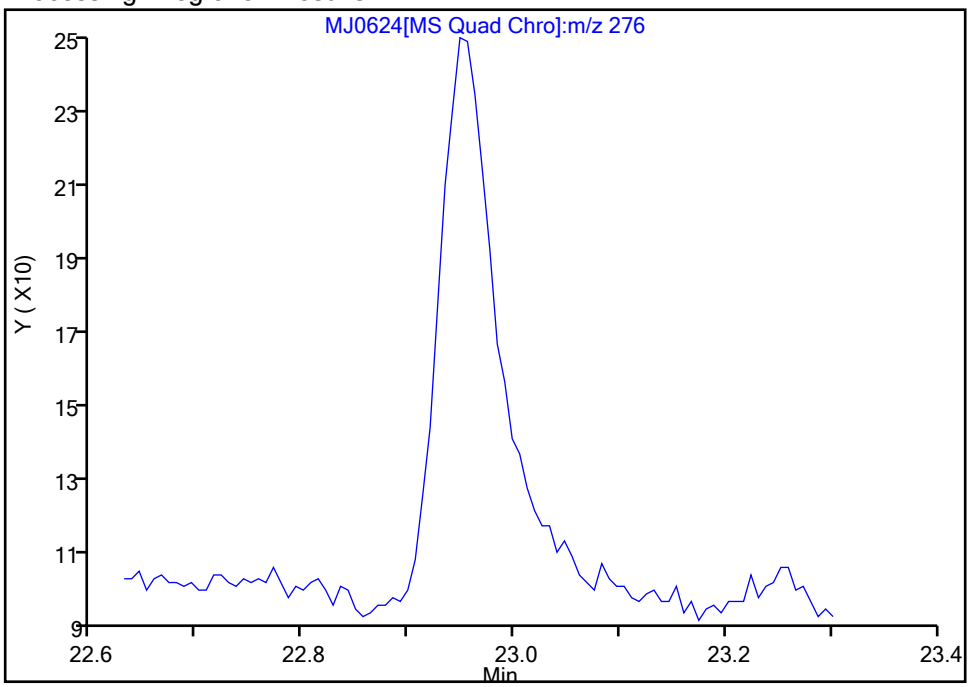
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Injection Date:	10-Oct-2021 00:20:12	Instrument ID:	HP21585		
Lims ID:	410-57303-A-16-A	Lab Sample ID:	410-57303-16		
Client ID:	MW-4D-20210929				
Operator ID:	whs02991	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

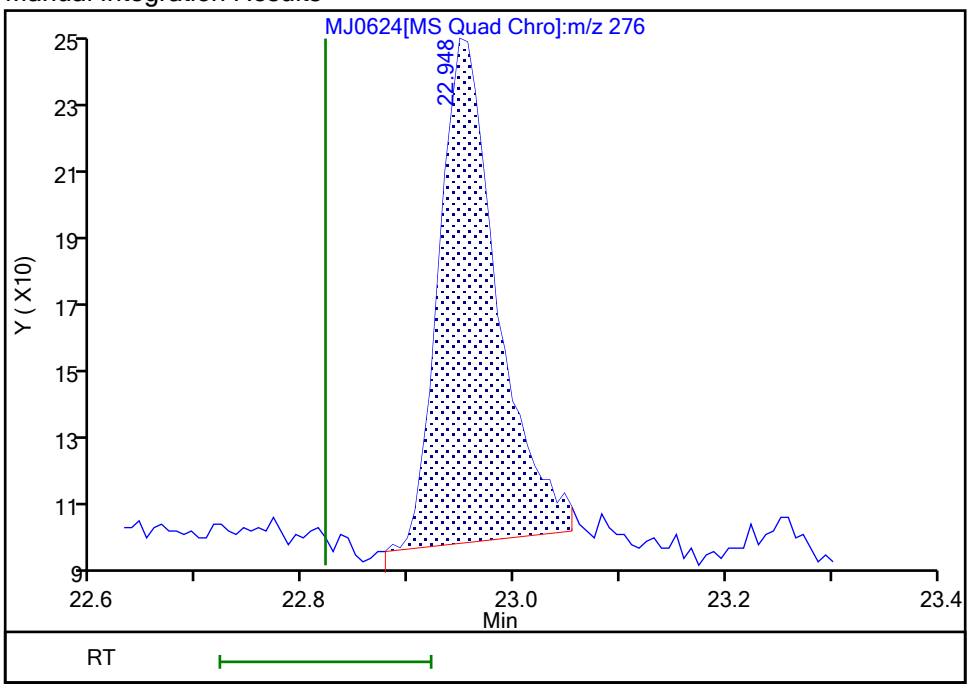
Not Detected
Expected RT: 22.82

Processing Integration Results



Manual Integration Results

RT: 22.95
Area: 564
Amount: 0.000604
Amount Units: ug/ml



Reviewer: saadehw, 10-Oct-2021 21:31:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

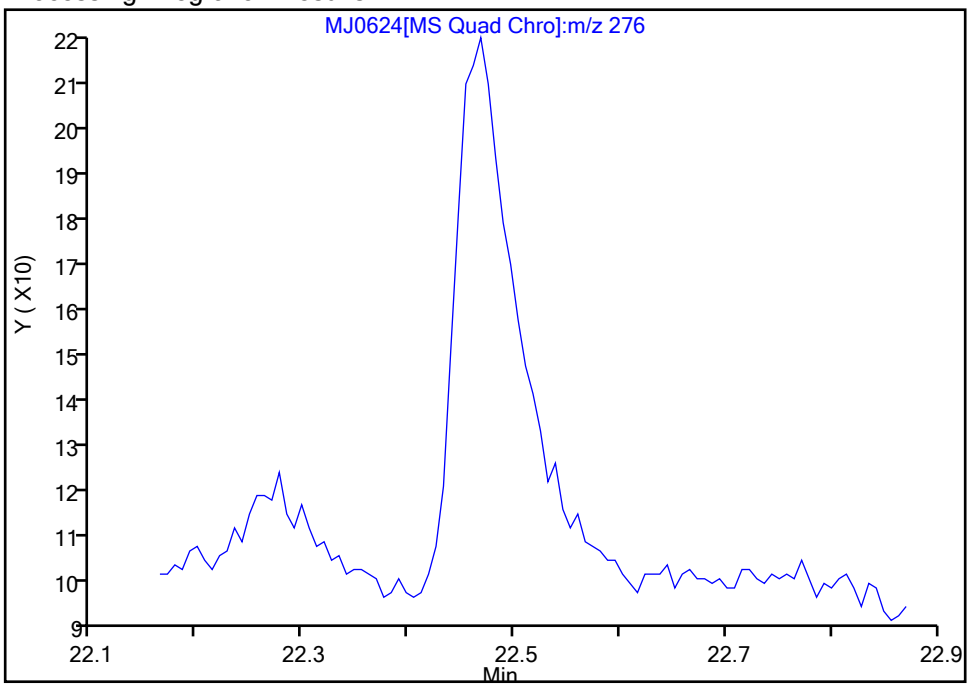
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0624.D				
Injection Date:	10-Oct-2021 00:20:12	Instrument ID:	HP21585		
Lims ID:	410-57303-A-16-A	Lab Sample ID:	410-57303-16		
Client ID:	MW-4D-20210929				
Operator ID:	whs02991	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 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

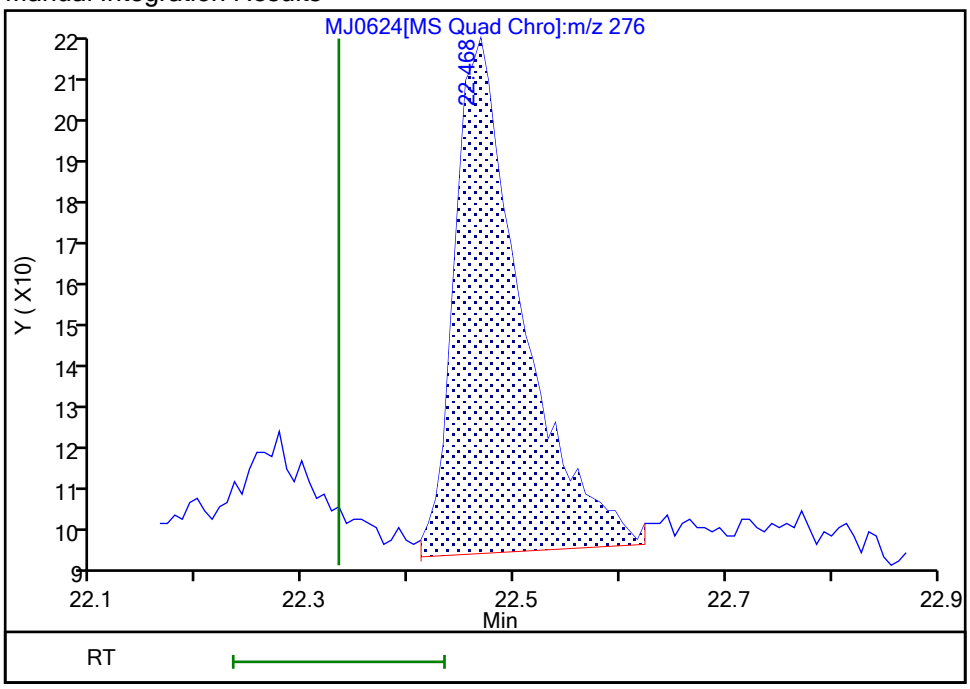
Not Detected
Expected RT: 22.33

Processing Integration Results



Manual Integration Results

RT: 22.47
Area: 544
Amount: 0.000712
Amount Units: ug/ml



Reviewer: saadehw, 10-Oct-2021 21:31:40
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-3-20210930 Lab Sample ID: 410-57303-17

Matrix: Ground Water Lab File ID: NJ0782.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 08:22

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 237.2(mL) Date Analyzed: 10/11/2021 20:06

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.: 181246 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	6.4		0.053	0.011
120-12-7	Anthracene	2.2		0.053	0.011
56-55-3	Benzo[a]anthracene	1.5		0.053	0.011
50-32-8	Benzo[a]pyrene	0.013	J	0.053	0.011
205-99-2	Benzo[b]fluoranthene	0.025	J	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	0.88		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.053	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		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\20211011-41227.b\NJ0782.D
Lims ID: 410-57303-B-17-A
Client ID: MW-3-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 20:06:30 ALS Bottle#: 23 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-17-A
Misc. Info.: 410-0041227-042
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 22:40:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: saadehw Date: 11-Oct-2021 22:36:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.279	6.267	0.012	99	76281	0.2500	
* 5 Naphthalene-d8	136	8.291	8.279	0.012	6	277042	0.2500	
6 Naphthalene	128	8.329	8.317	0.025	95	23928469	19.5	Ee
$ 9 1-Methylnaphthalene-d10	152	9.557	9.561	0.010	30	106327	0.1876	
12 Acenaphthylene	152	10.909	10.897	0.010	99	1433265	1.53	Ma
* 13 Acenaphthene-d10	164	11.139	11.140	-0.001	22	108056	0.2500	a
14 Acenaphthene	154	11.199	11.199	0.009	95	6207613	12.1	EMa
17 Fluorene	166	11.912	11.902	0.008	98	2350242	3.56	E
* 20 Phenanthrene-d10	188	13.063	13.063	0.000	57	162928	0.2500	
21 Phenanthrene	178	13.094	13.099	0.000	99	3524999	4.25	E
22 Anthracene	178	13.163	13.161	0.008	98	392583	0.5230	
$ 24 Fluoranthene-d10 (Surr)	212	14.719	14.718	0.006	98	145717	0.2196	M
25 Fluoranthene	202	14.750	14.743	0.006	97	3360760	3.82	EM
26 Pyrene	202	15.095	15.082	0.012	98	4783622	4.16	E
28 Benzo[a]anthracene	228	17.112	17.112	0.007	100	342092	0.3519	
* 29 Chrysene-d12	240	17.128	17.120	0.008	83	160377	0.2500	M
30 Chrysene	228	17.174	17.165	0.008	100	196926	0.2095	
33 Benzo[b]fluoranthene	252	18.976	18.976	0.000	99	5424	0.005918	M
34 Benzo[k]fluoranthene	252	19.022	19.021	0.000	95	2294	0.002397	Ma
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.467	19.467	0.000	99	118832	0.2123	
37 Benzo[a]pyrene	252	19.505	19.505	0.000	98	2574	0.003070	M
* 38 Perylene-d12	264	19.597	19.597	0.000	98	151640	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.237	21.230	0.007	98	1284	0.002188	M
42 Benzo[g,h,i]perylene	276	21.654	21.653	0.000	96	1200	0.001727	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00021	Amount Added:	10.00	Units: uL	Run Reagent

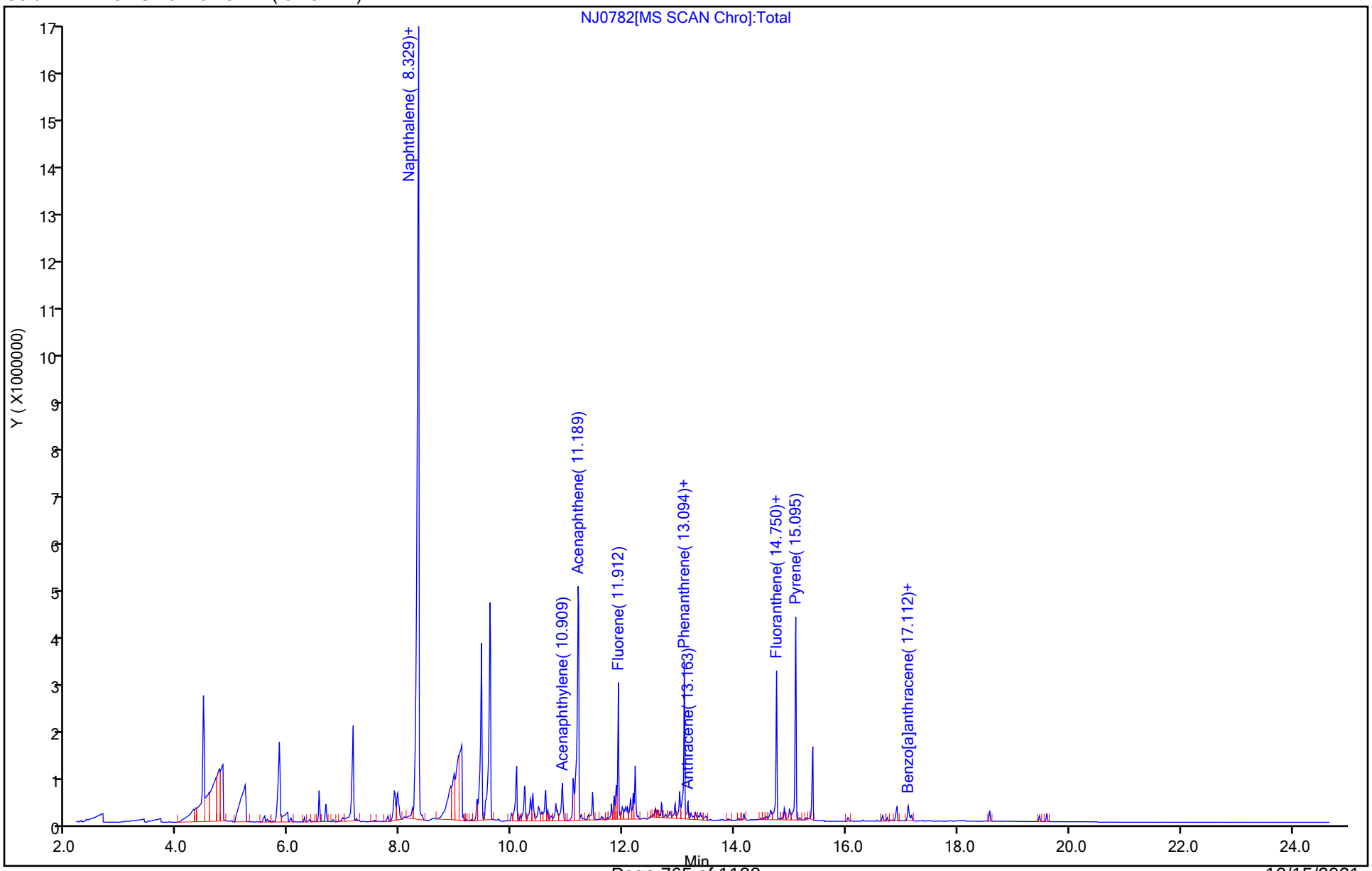
Report Date: 11-Oct-2021 22:40:20 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D

Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17	Worklist Smp#:	42
Client ID:	MW-3-20210930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Report Date: 11-Oct-2021 22:40:20 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D

Injection Date: 11-Oct-2021 20:06:30 Instrument ID: HP23263

Lims ID: 410-57303-B-17-A Lab Sample ID: 410-57303-17

Client ID: MW-3-20210930

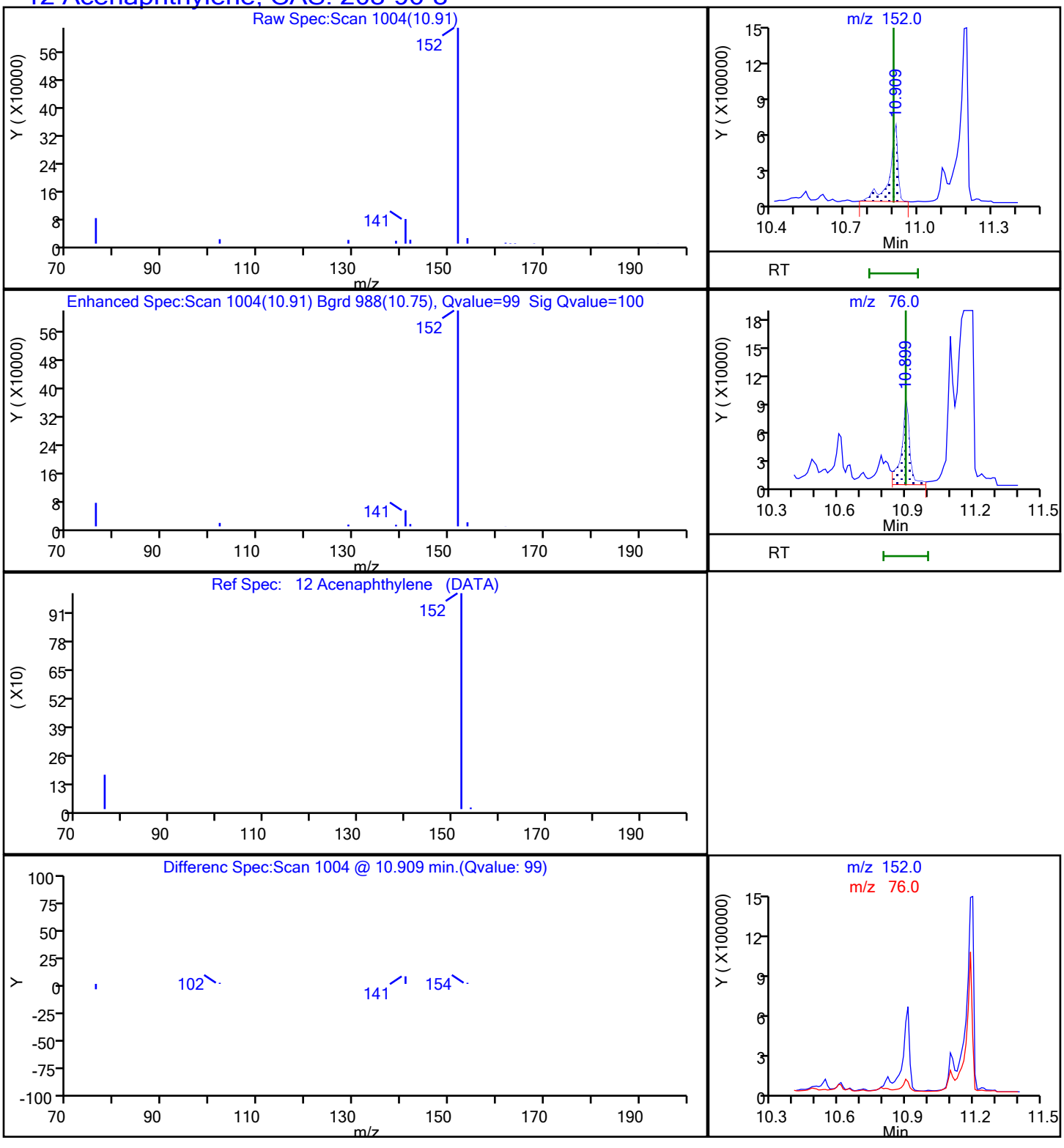
Operator ID: jmg00346 ALS Bottle#: 23 Worklist Smp#: 42

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

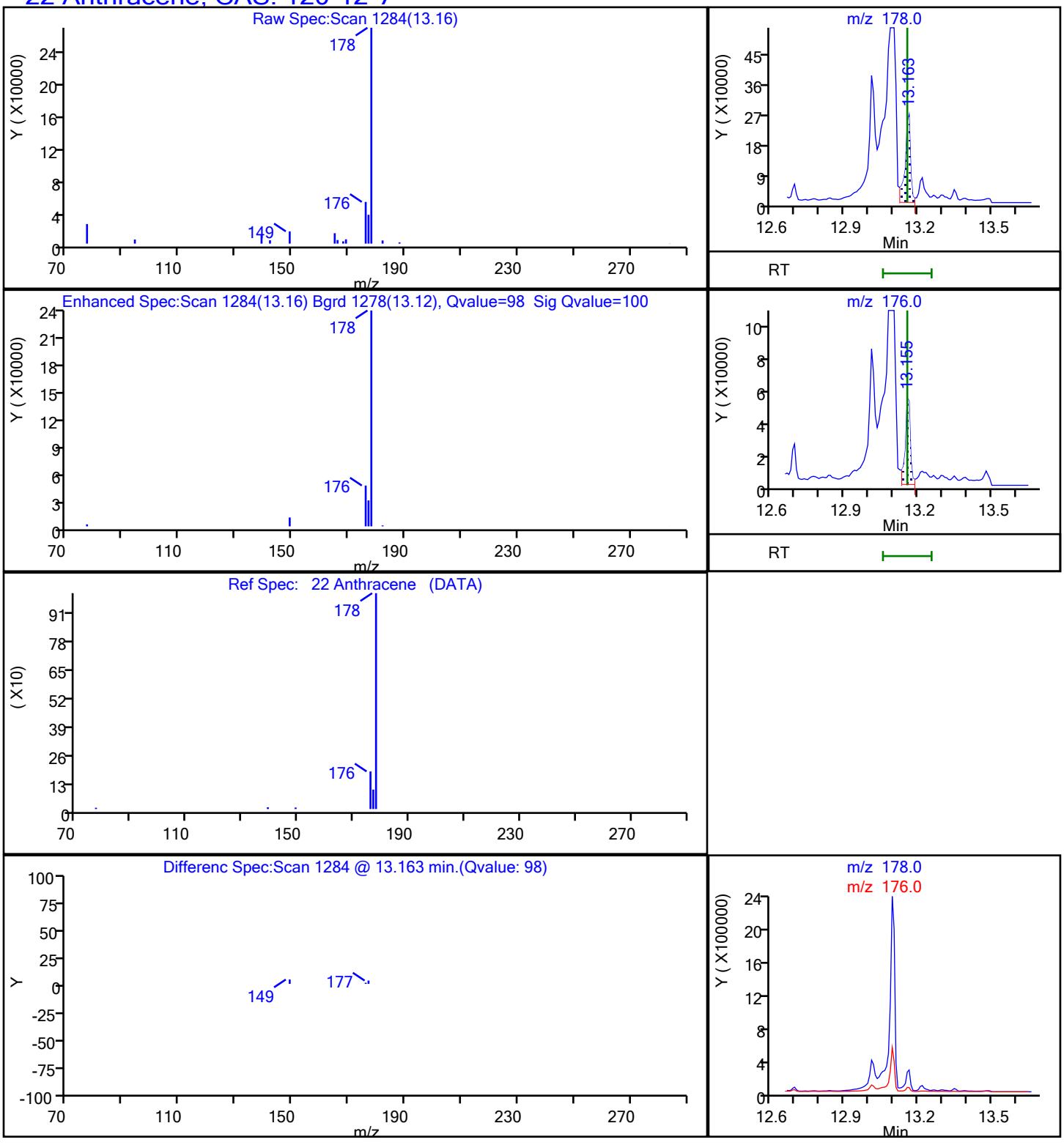
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D				
Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
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		

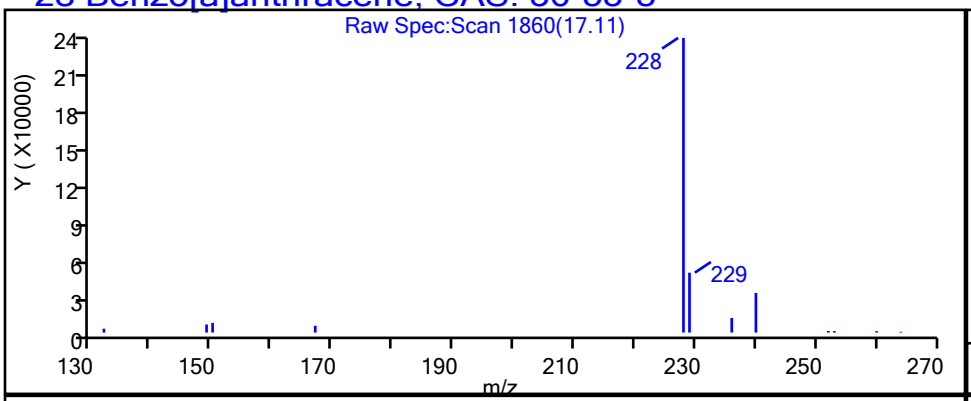
22 Anthracene, CAS: 120-12-7

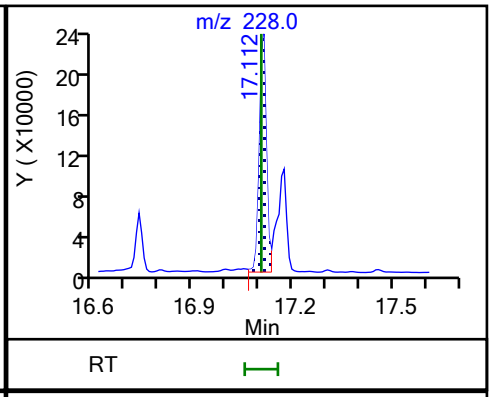


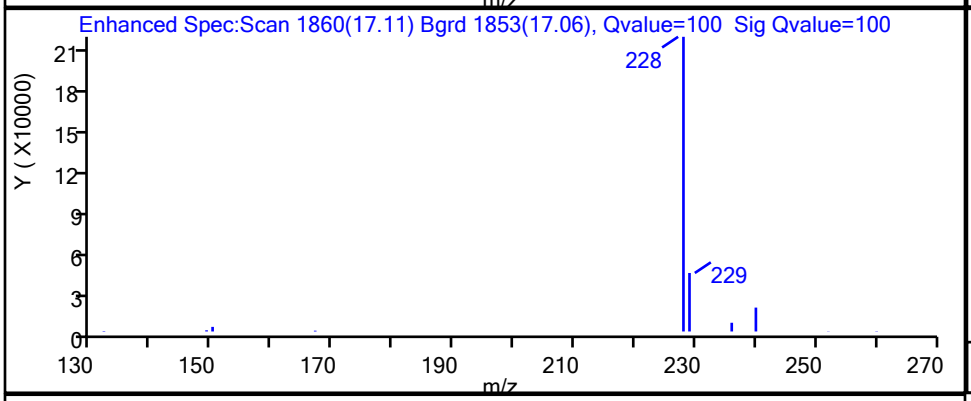
Eurofins Lancaster Laboratories Env, LLC

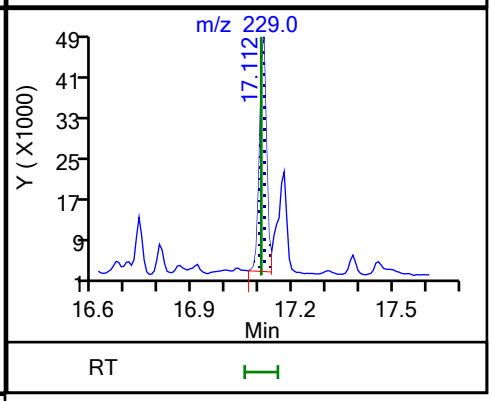
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Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

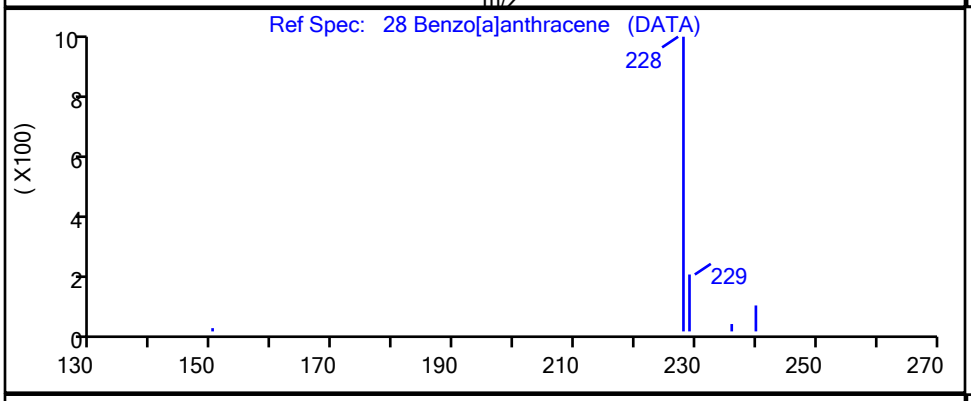
28 Benzo[a]anthracene, CAS: 56-55-3

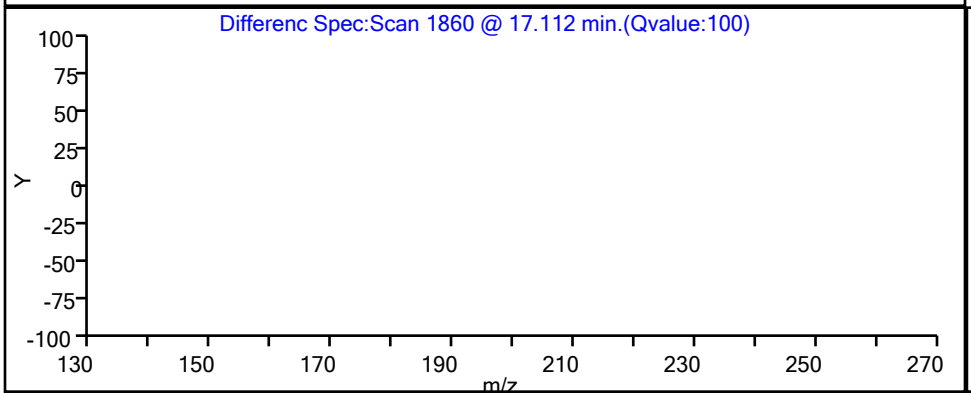


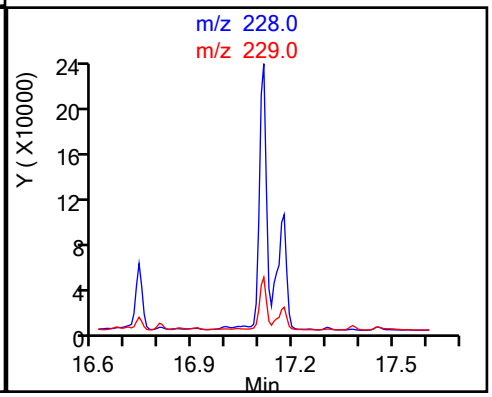








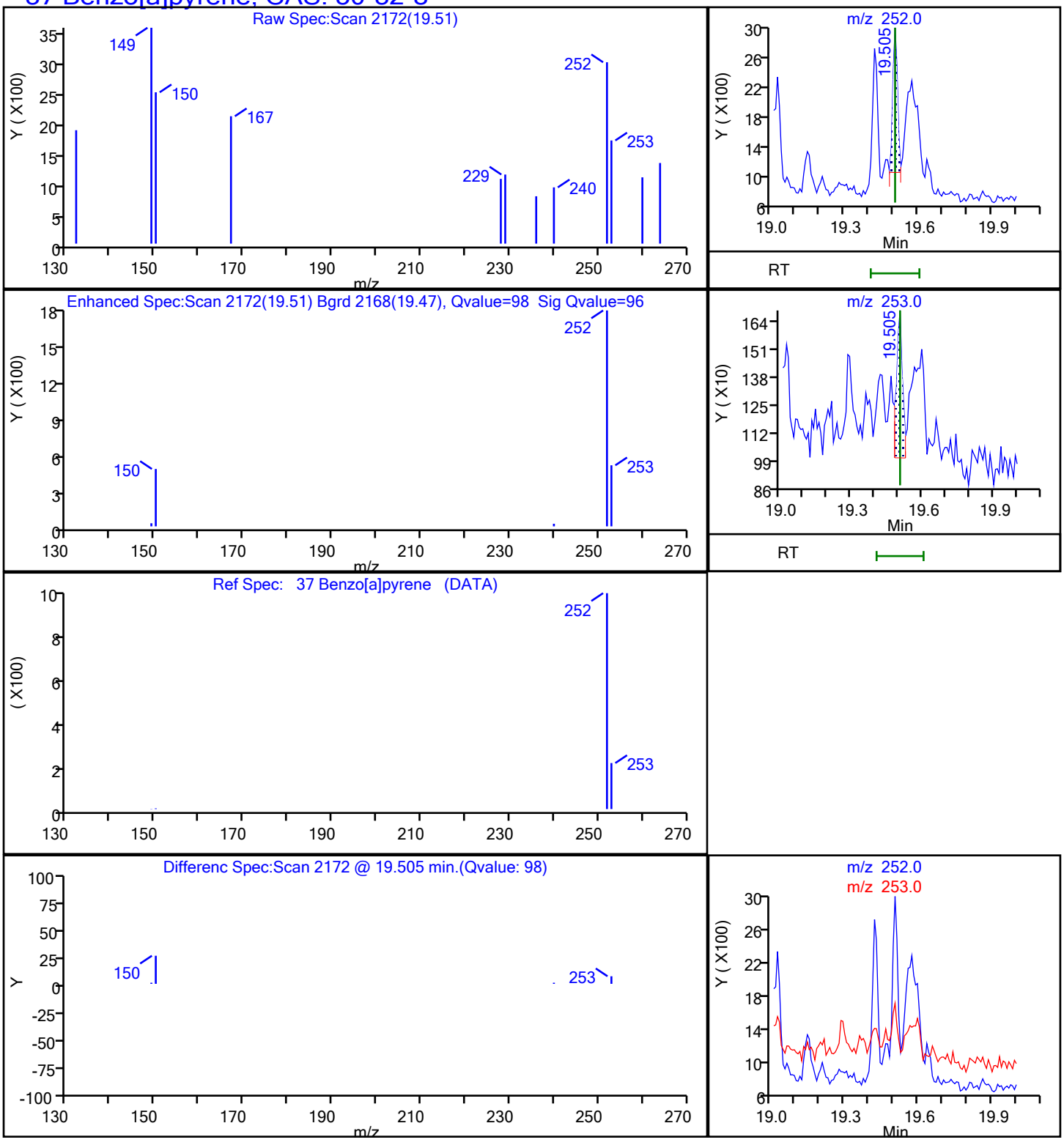




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D				
Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
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



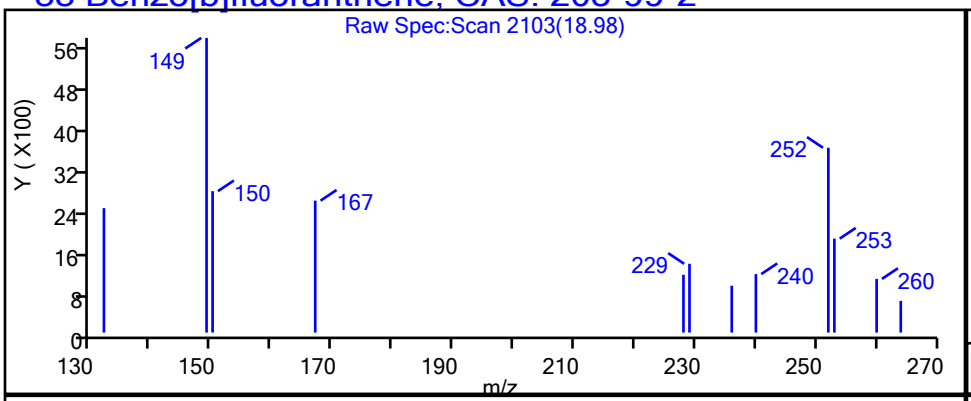
Report Date: 11-Oct-2021 22:40:20 Chrom Revision: 2.3 22-Sep-2021 15:38:46

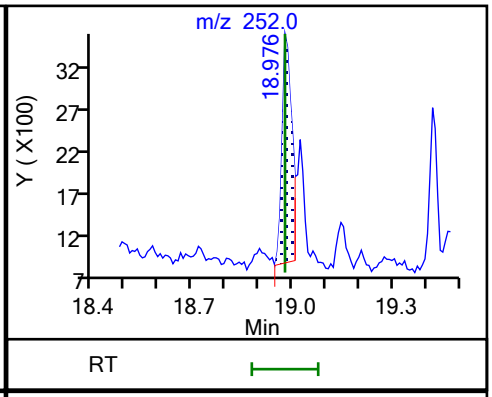
Eurofins Lancaster Laboratories Env, LLC

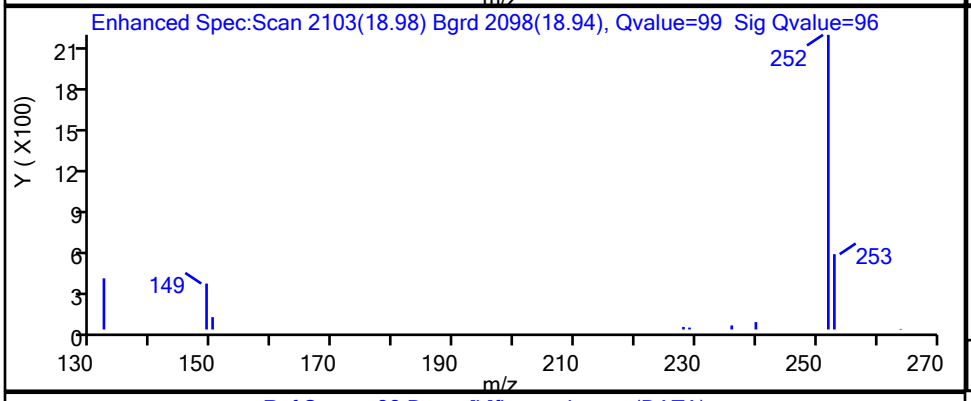
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D

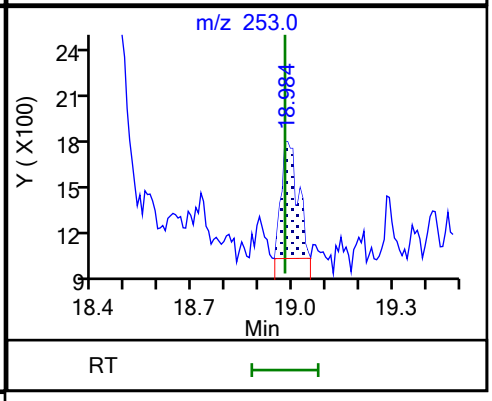
Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

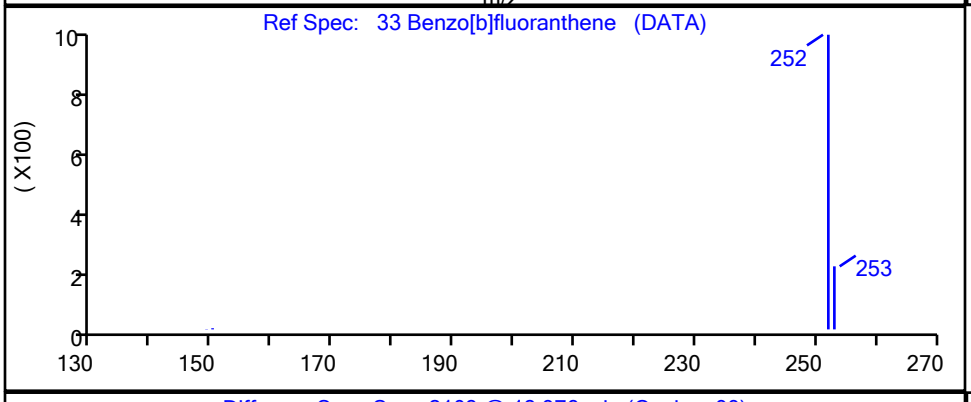
33 Benzo[b]fluoranthene, CAS: 205-99-2

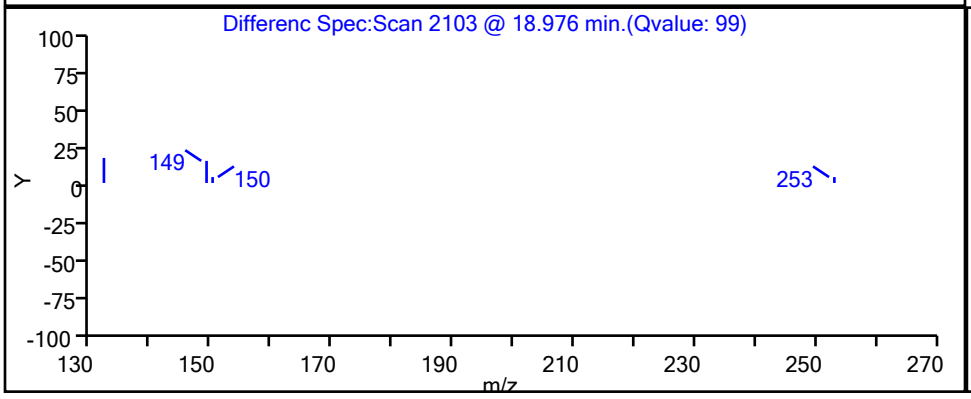


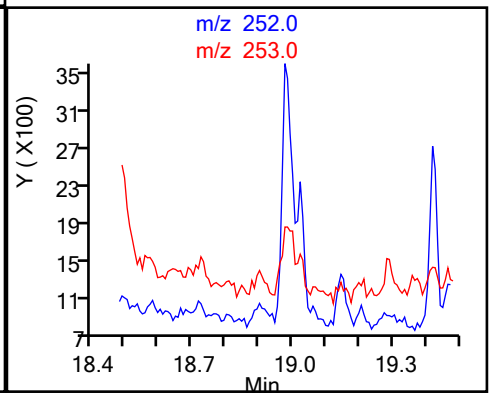












Report Date: 11-Oct-2021 22:40:20 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D

Injection Date: 11-Oct-2021 20:06:30 Instrument ID: HP23263

Lims ID: 410-57303-B-17-A Lab Sample ID: 410-57303-17

Client ID: MW-3-20210930

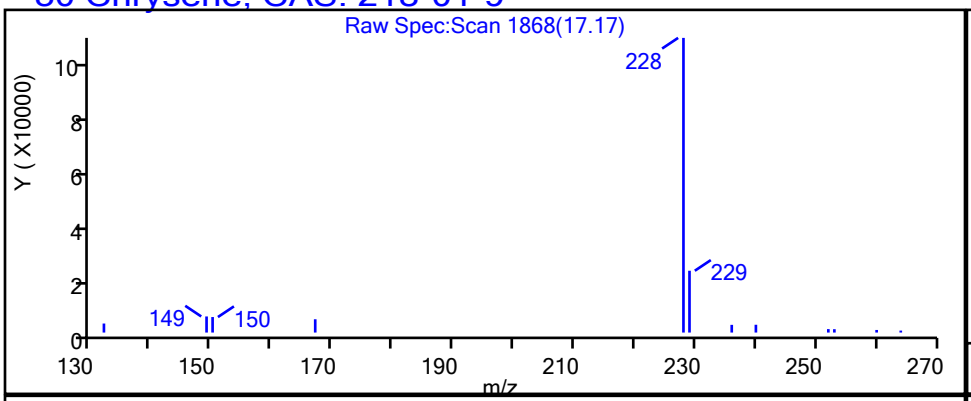
Operator ID: jmg00346 ALS Bottle#: 23 Worklist Smp#: 42

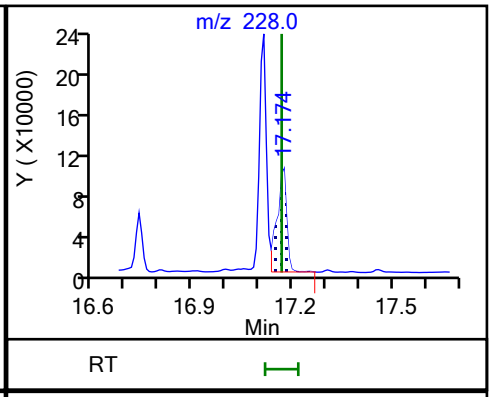
Injection Vol: 1.0 ul Dil. Factor: 1.0000

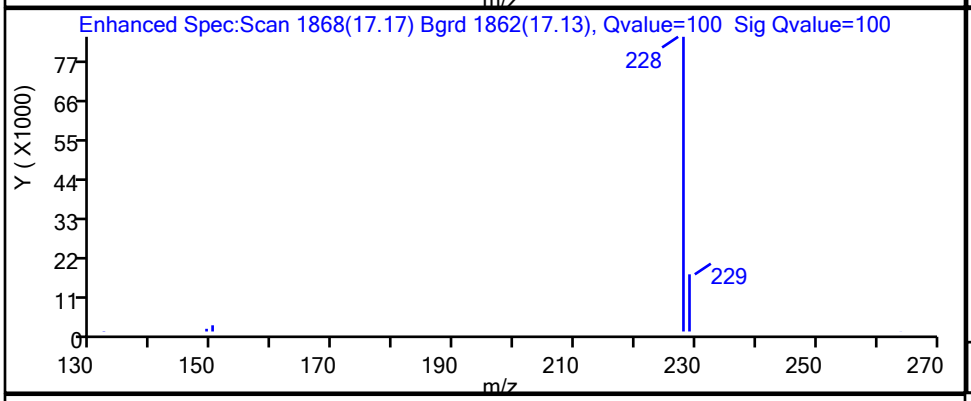
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

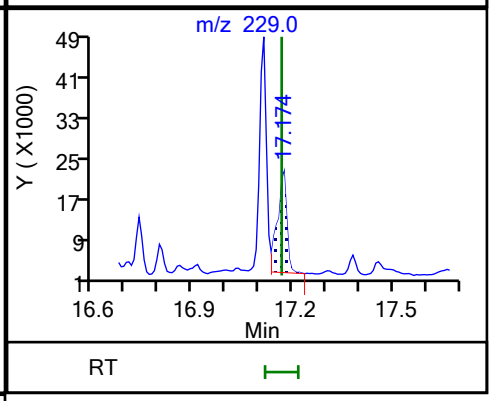
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

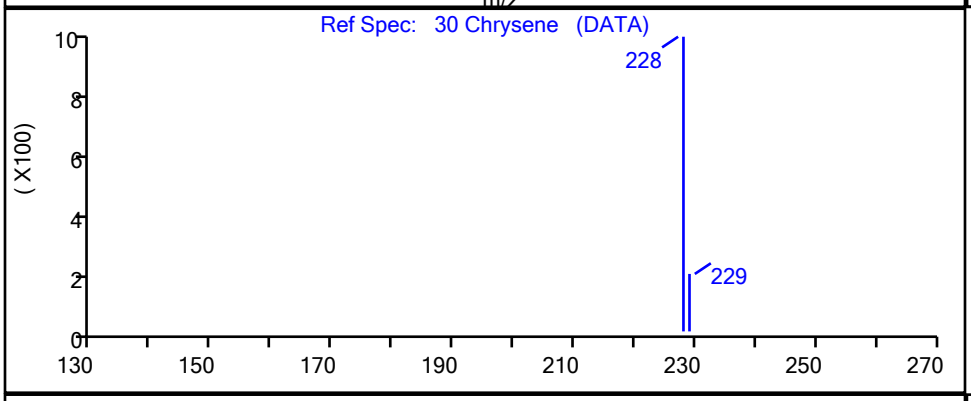
30 Chrysene, CAS: 218-01-9

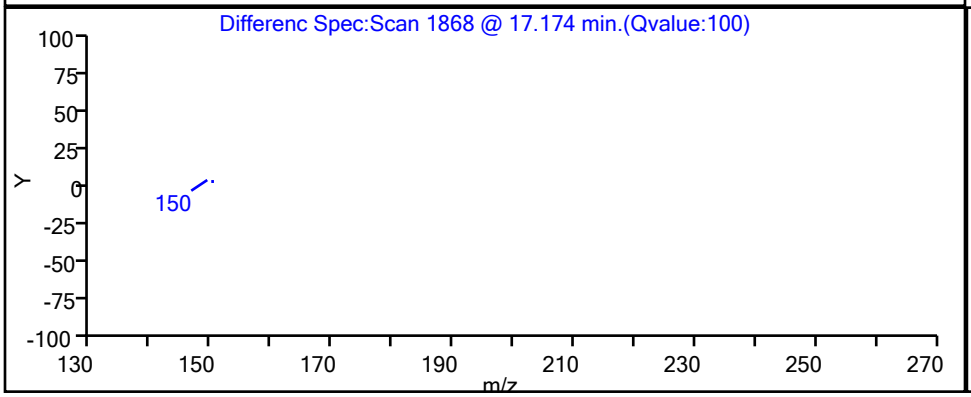


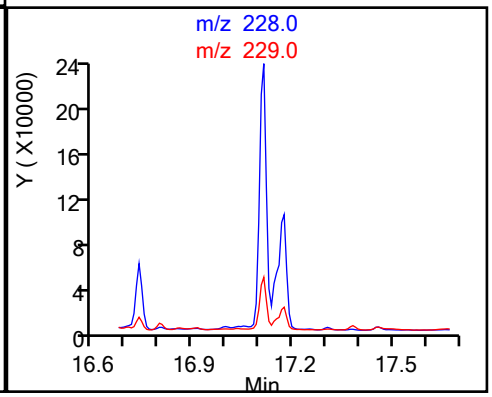












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

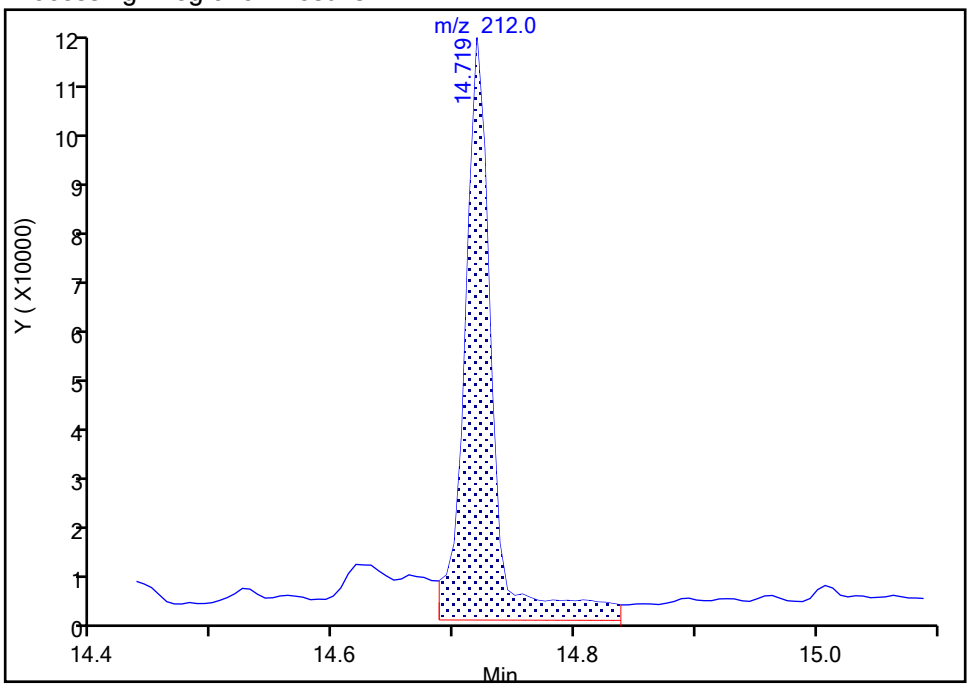
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

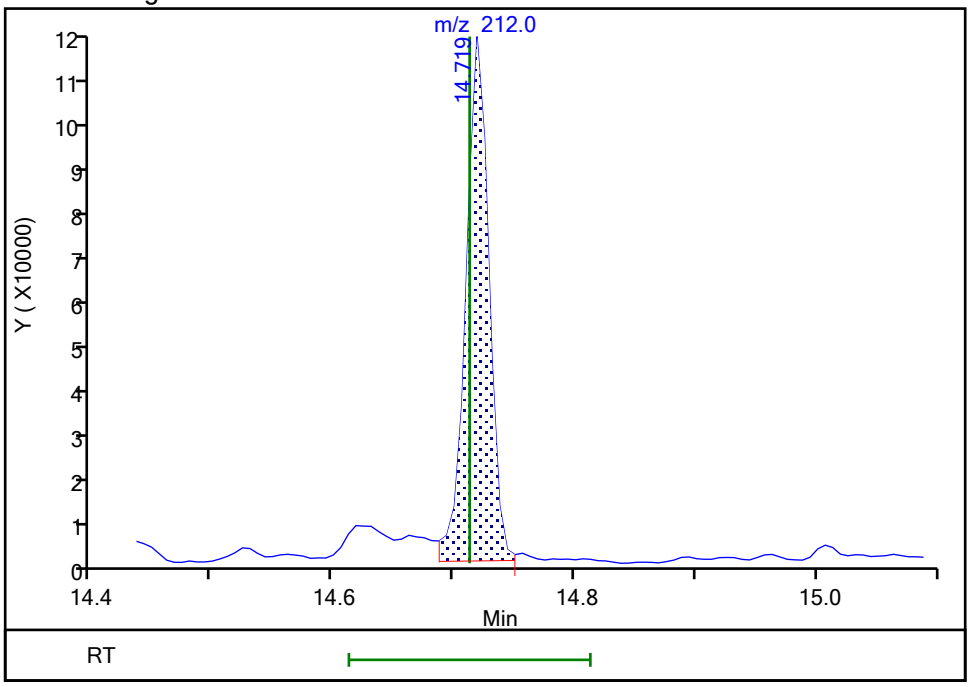
Processing Integration Results

RT: 14.72
Area: 179170
Amount: 0.269966
Amount Units: ug/ml



Manual Integration Results

RT: 14.72
Area: 145717
Amount: 0.219561
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:34:38

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

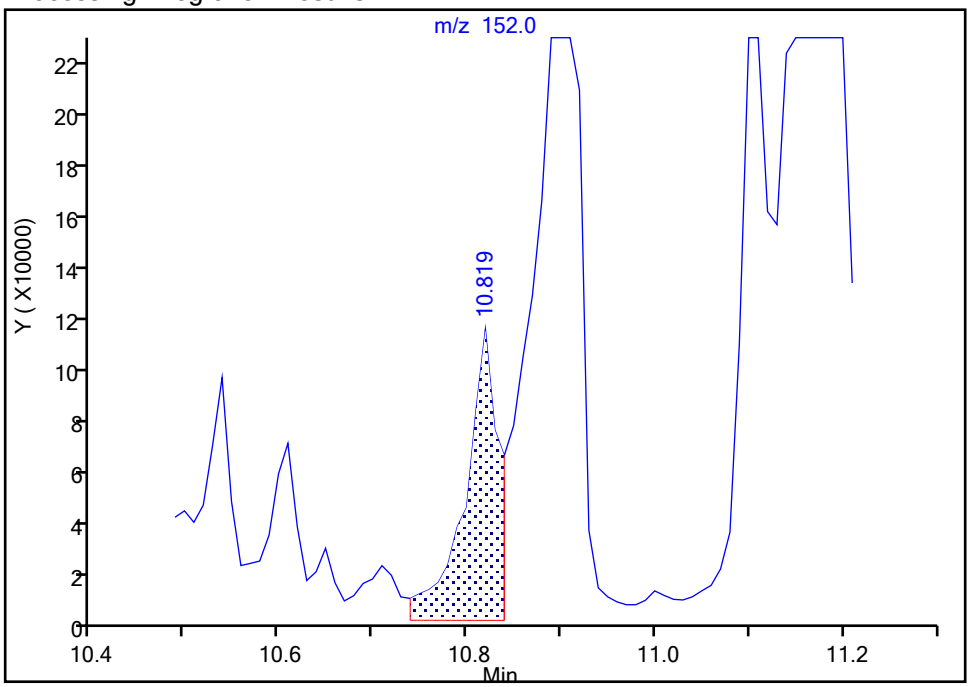
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

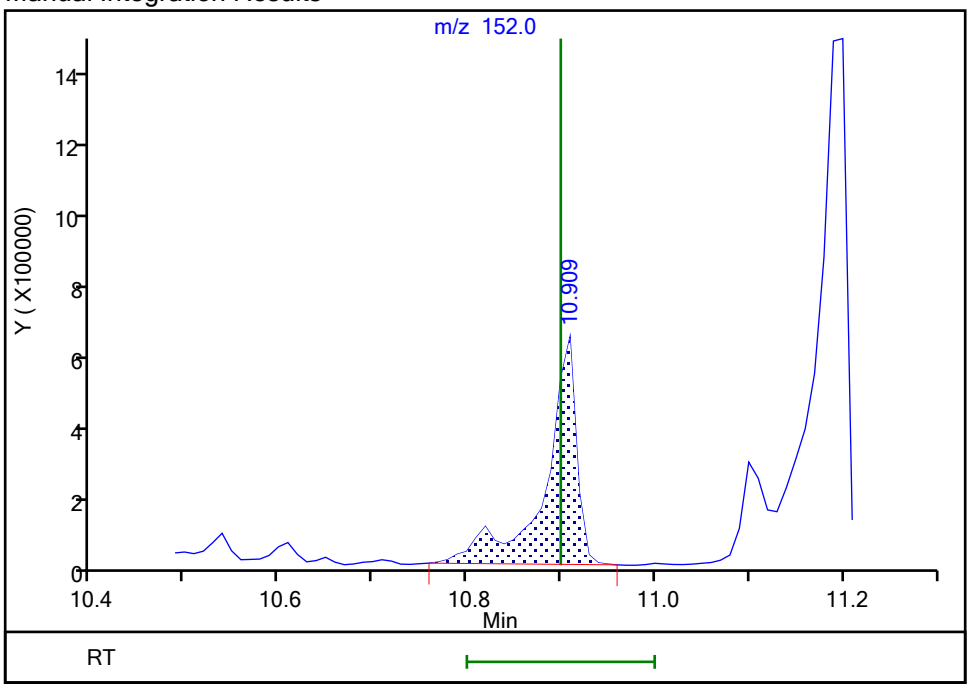
Processing Integration Results

RT: 10.82
Area: 262275
Amount: 0.279814
Amount Units: ug/ml



Manual Integration Results

RT: 10.91
Area: 1433265
Amount: 1.529110
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:34:54

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

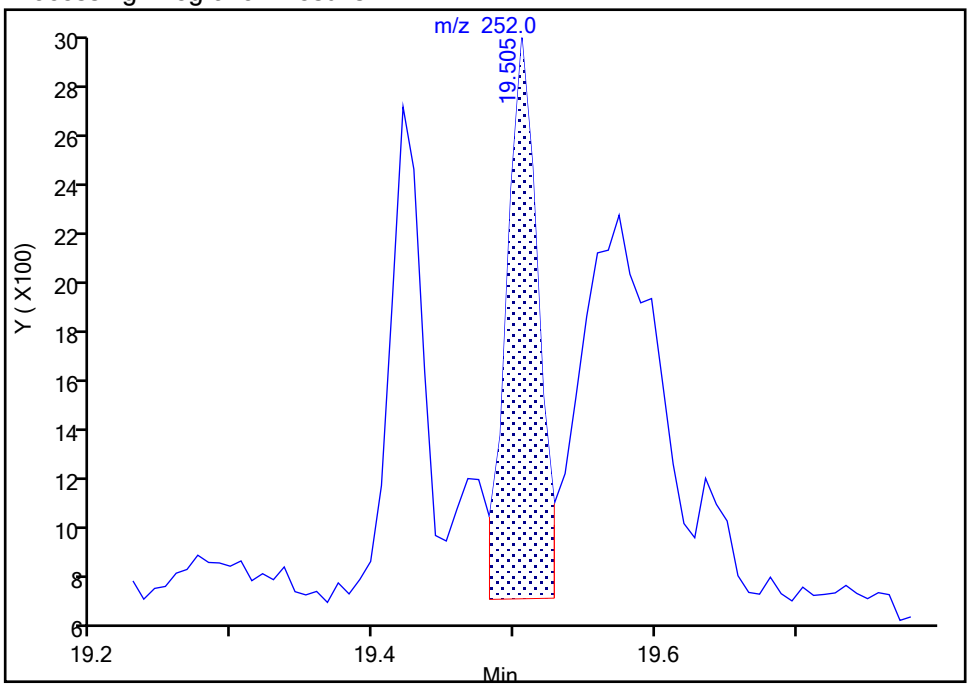
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

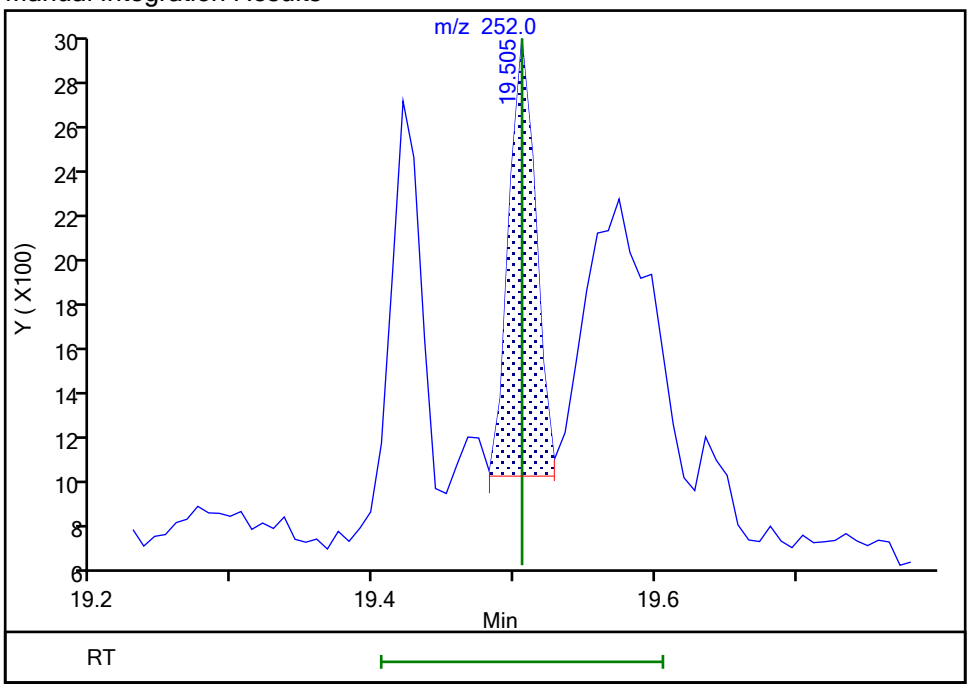
Processing Integration Results

RT: 19.51
Area: 3426
Amount: 0.004086
Amount Units: ug/ml



Manual Integration Results

RT: 19.51
Area: 2574
Amount: 0.003070
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:35:21

Audit Action: Assigned New Baseline Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

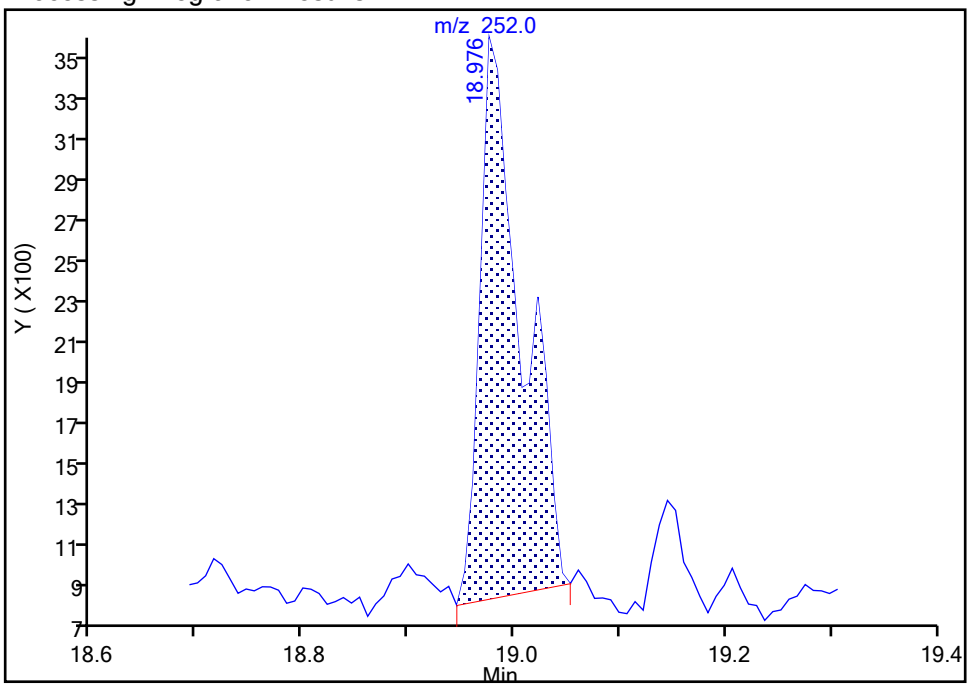
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

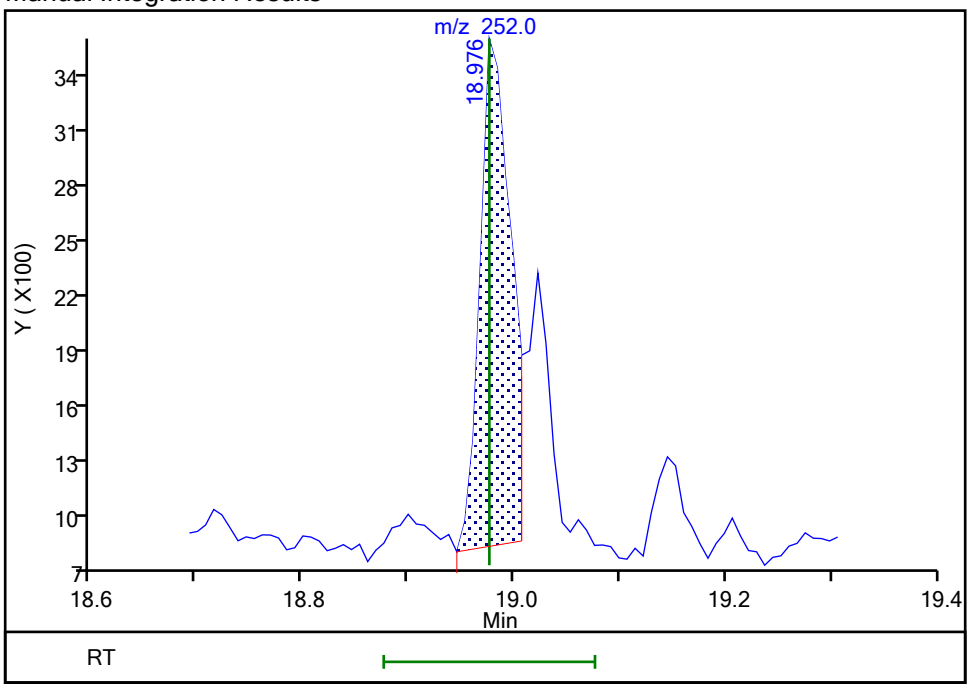
Processing Integration Results

RT: 18.98
Area: 7499
Amount: 0.008182
Amount Units: ug/ml



Manual Integration Results

RT: 18.98
Area: 5424
Amount: 0.005918
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:35:12

Audit Action: Split an Integrated Peak Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

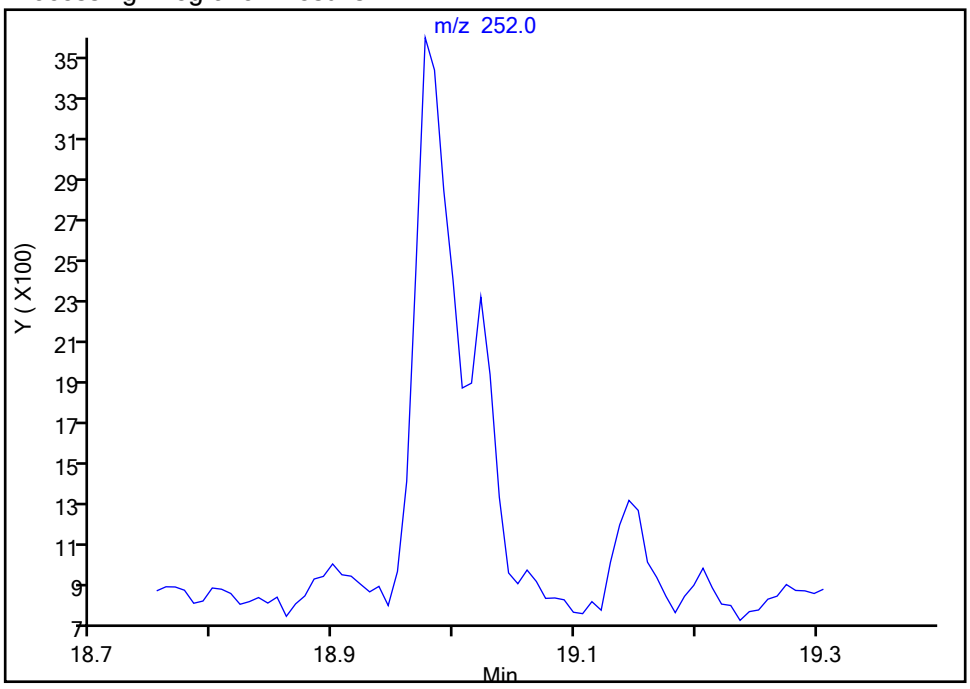
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

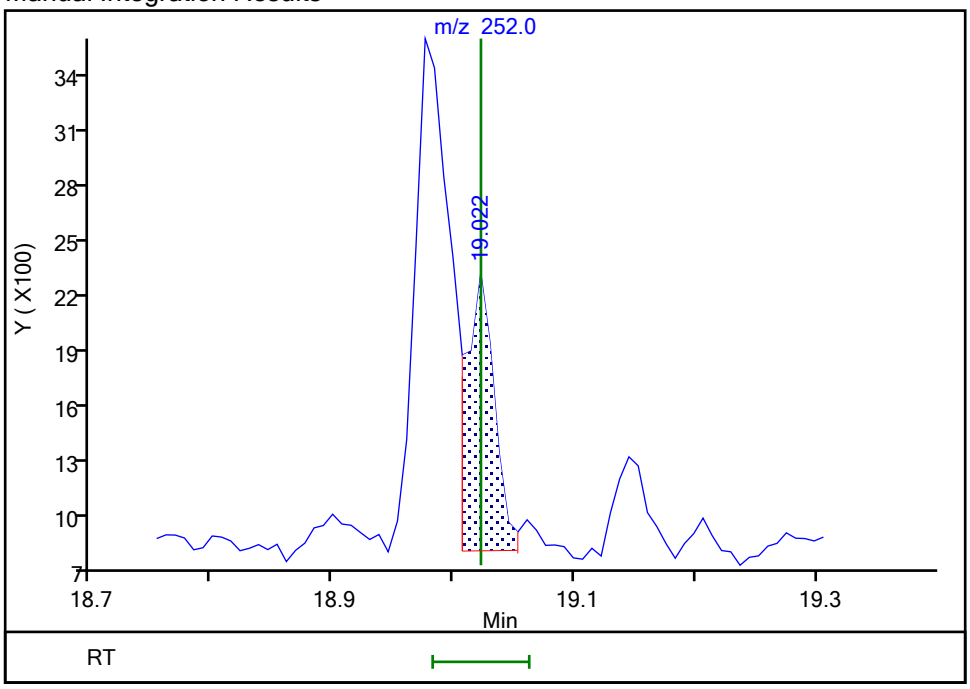
Not Detected
Expected RT: 19.02

Processing Integration Results



Manual Integration Results

RT: 19.02
Area: 2294
Amount: 0.002397
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:35:16
Audit Action: Split an Integrated Peak Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

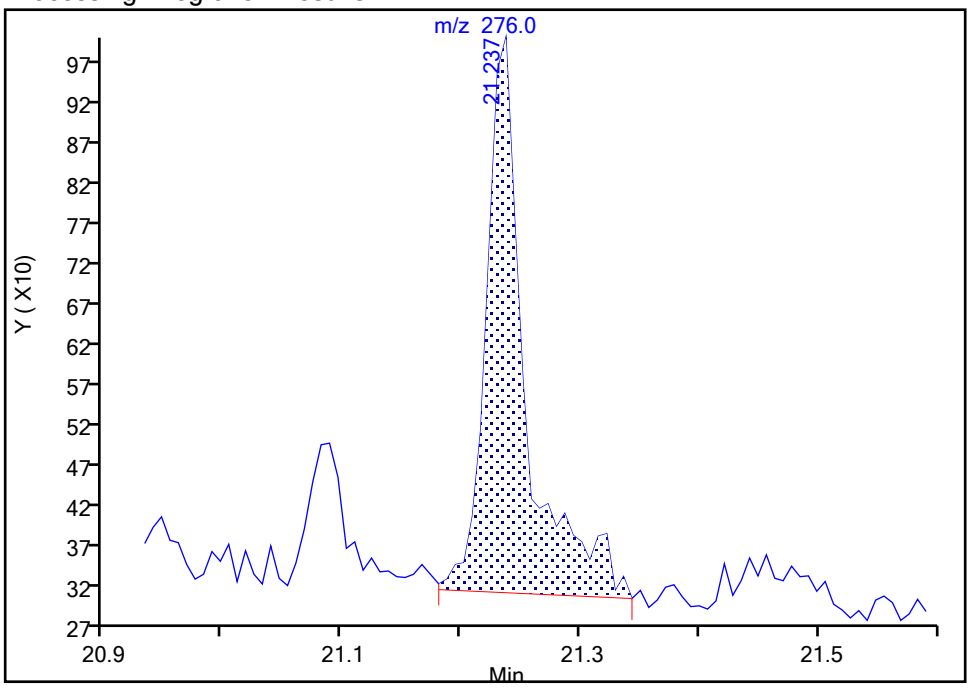
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

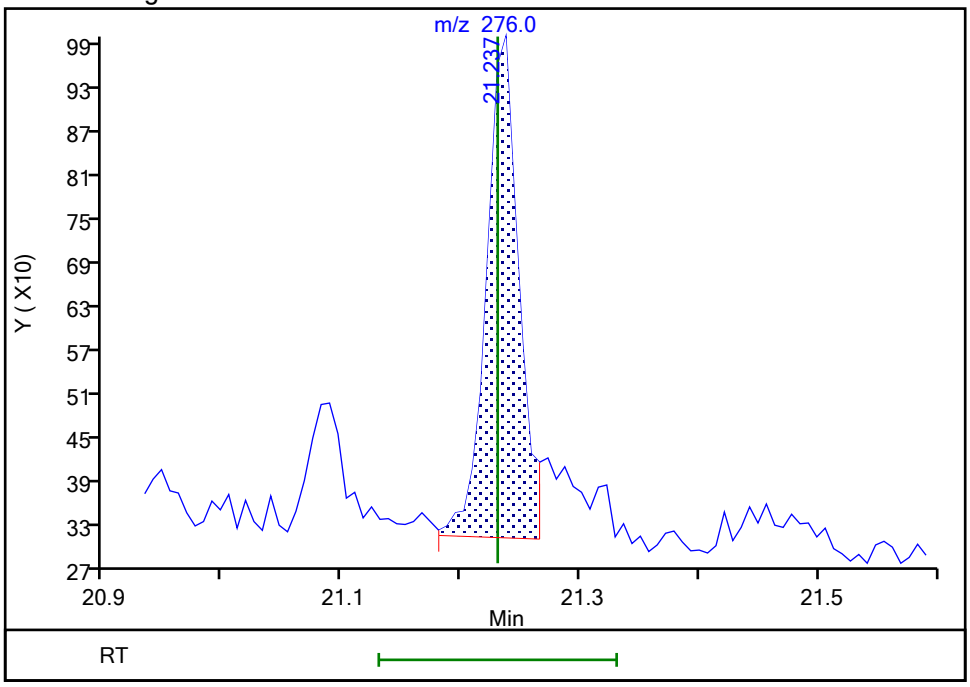
Processing Integration Results

RT: 21.24
Area: 1593
Amount: 0.002714
Amount Units: ug/ml



Manual Integration Results

RT: 21.24
Area: 1284
Amount: 0.002188
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:35:26

Audit Action: Split an Integrated Peak Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

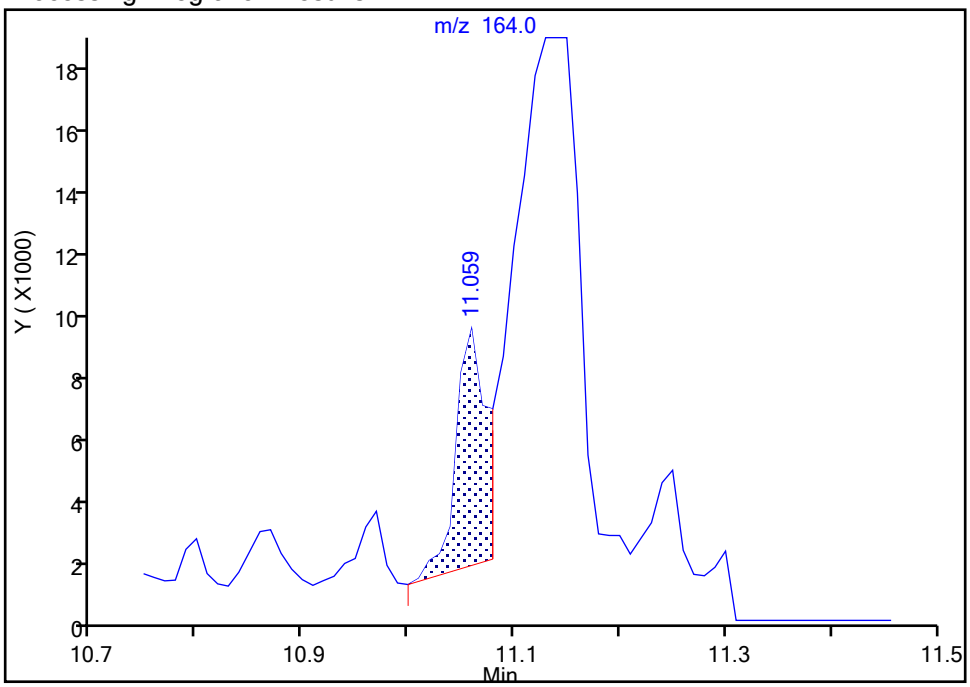
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Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

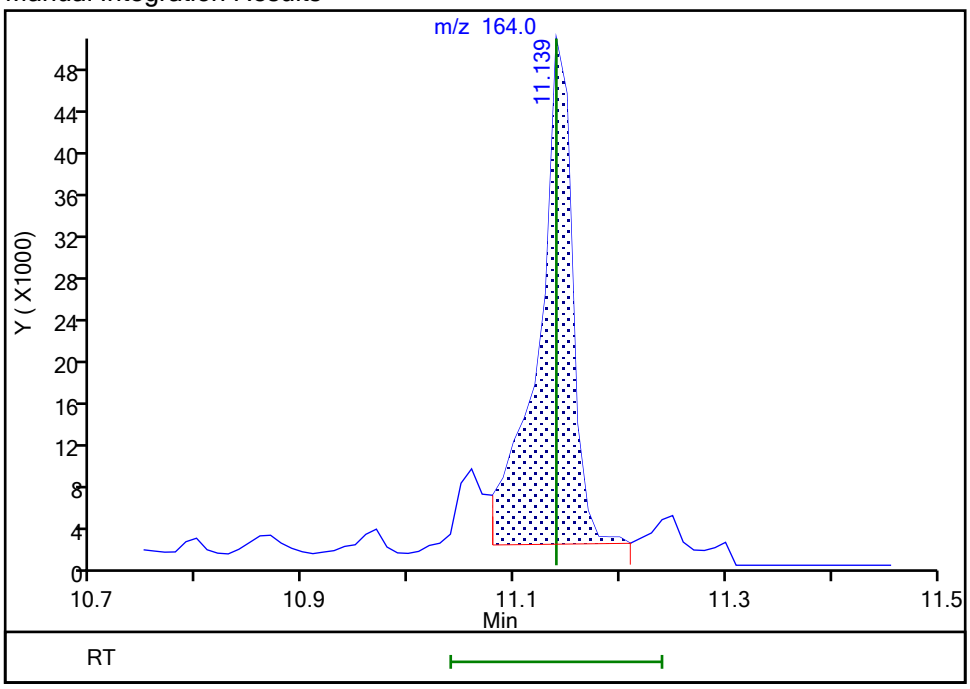
Processing Integration Results

RT: 11.06
Area: 14433
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 11.14
Area: 108056
Amount: 0.250000
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:34:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

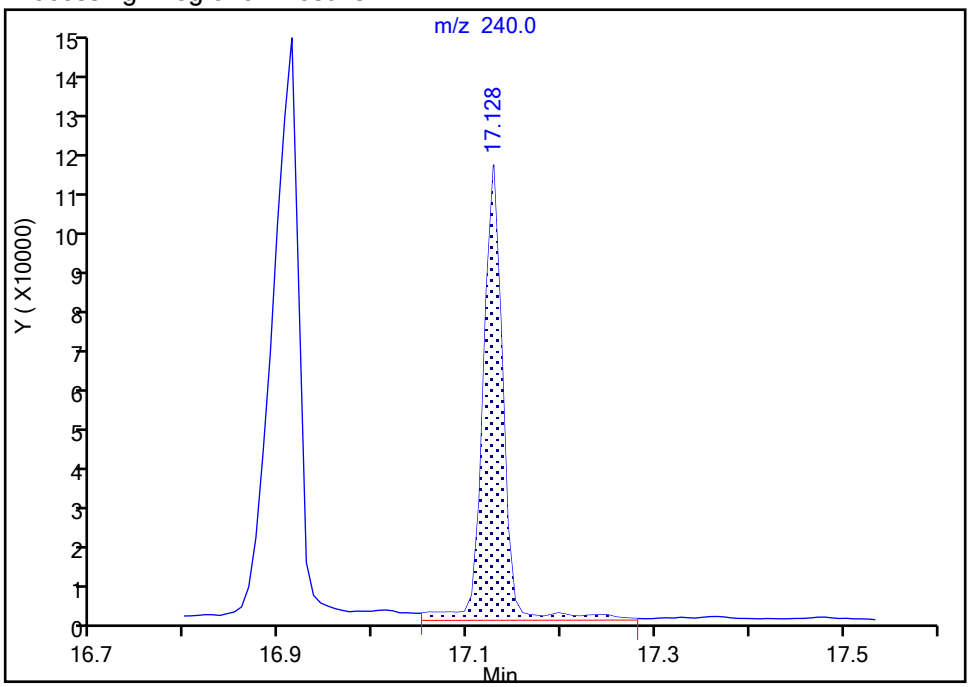
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0782.D		
Injection Date:	11-Oct-2021 20:06:30	Instrument ID:	HP23263
Lims ID:	410-57303-B-17-A	Lab Sample ID:	410-57303-17
Client ID:	MW-3-20210930		
Operator ID:	jmg00346	ALS Bottle#:	23 Worklist Smp#: 42
Injection Vol:	1.0 ul	Dil. 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

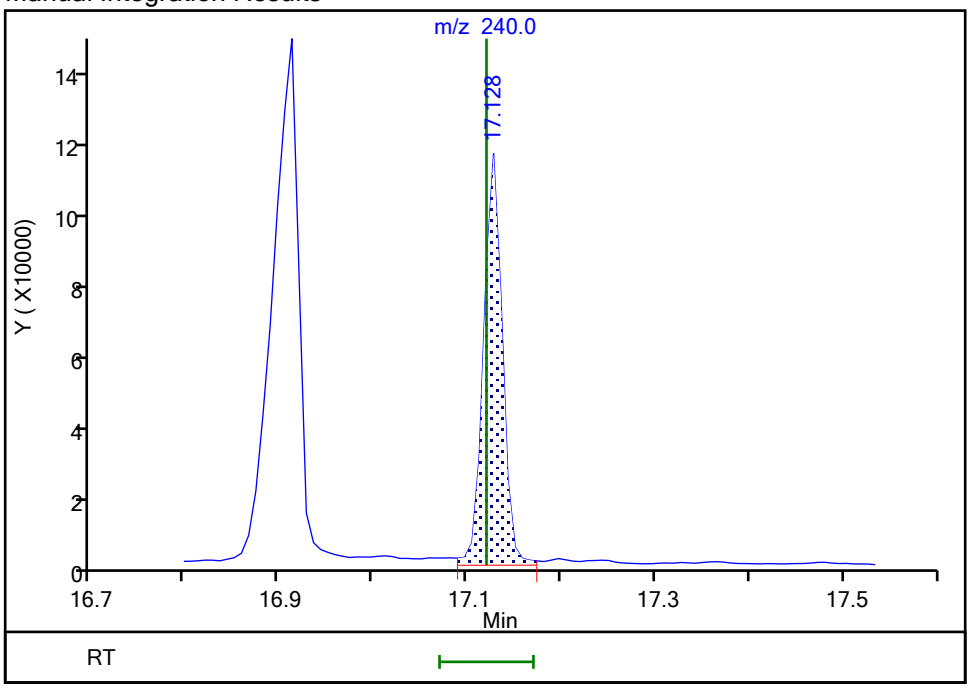
Processing Integration Results

RT: 17.13
Area: 172195
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 17.13
Area: 160377
Amount: 0.250000
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:34:32
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-3-20210930 DL Lab Sample ID: 410-57303-17 DL

Matrix: Ground Water Lab File ID: NJ0804.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 08:22

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 237.2(mL) Date Analyzed: 10/12/2021 07:42

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 181545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	46		0.26	0.053
206-44-0	Fluoranthene	17		0.26	0.053
86-73-7	Fluorene	14		0.26	0.053
85-01-8	Phenanthrene	20		0.37	0.16
129-00-0	Pyrene	22		0.26	0.053

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	89		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	84		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\20211012-41293.b\NJ0804.D
Lims ID: 410-57303-B-17-A DL
Client ID: MW-3-20210930
Sample Type: Client
Inject. Date: 12-Oct-2021 07:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 410-57303-B-17-A
Misc. Info.: 410-0041293-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 07:26:59 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 07:05:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.280	6.267	0.013	95	74922	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	30	240498	0.2500	
6 Naphthalene	128	8.317	8.316	0.013	99	5682841	5.34	E
$ 9 1-Methylnaphthalene-d10	152	9.545	9.545	-0.002	70	20695	0.0421	M
12 Acenaphthylene	152	10.897	10.897	-0.002	100	303960	0.2918	
* 13 Acenaphthene-d10	164	11.137	11.139	-0.002	90	120090	0.2500	
14 Acenaphthene	154	11.187	11.189	-0.003	97	1251249	2.20	
17 Fluorene	166	11.910	11.912	0.006	99	476584	0.6500	
* 20 Phenanthrene-d10	188	13.060	13.063	-0.003	99	162521	0.2500	
21 Phenanthrene	178	13.091	13.101	-0.003	99	794423	0.9606	
22 Anthracene	178	13.153	13.161	-0.002	98	81205	0.1084	M
$ 24 Fluoranthene-d10 (Surr)	212	14.712	14.750	-0.001	100	30091	0.0455	
25 Fluoranthene	202	14.743	14.743	-0.001	95	727762	0.8287	
26 Pyrene	202	15.082	15.082	-0.001	99	946895	1.04	
28 Benzo[a]anthracene	228	17.104	17.166	-0.001	98	56996	0.0743	
* 29 Chrysene-d12	240	17.119	17.120	-0.001	84	126563	0.2500	
30 Chrysene	228	17.165	17.165	-0.001	100	33564	0.0452	
33 Benzo[b]fluoranthene	252	18.967	18.975	-0.009	100	1249	0.001583	
34 Benzo[k]fluoranthene	252	19.013	19.021	-0.009	94	718	0.000871	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.458	19.466	-0.009	97	21376	0.0444	
* 38 Perylene-d12	264	19.596	19.597	-0.001	98	130540	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

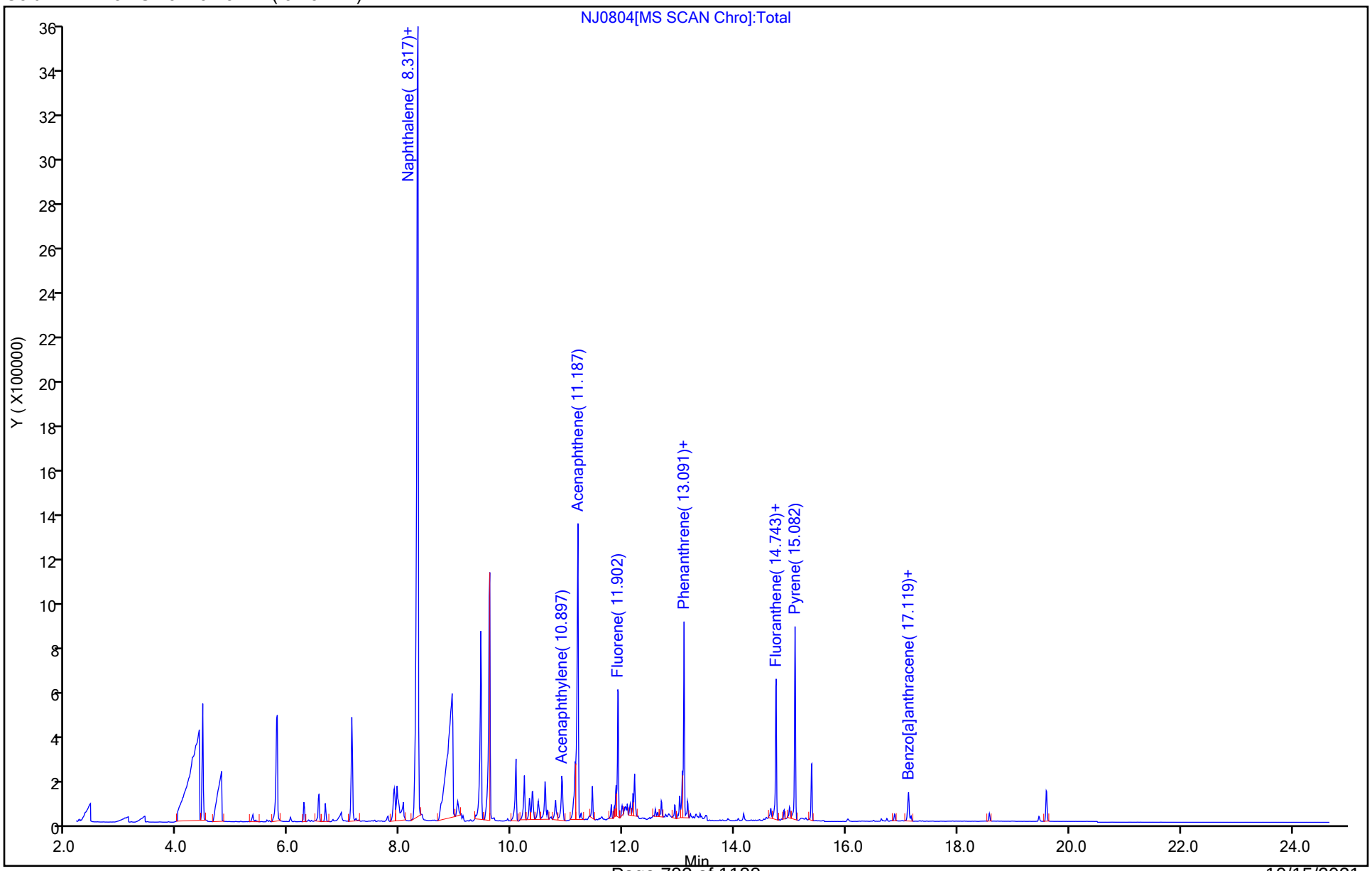
Report Date: 13-Oct-2021 07:27:25 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0804.D

Injection Date:	12-Oct-2021 07:42:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17	Worklist Smp#:	5
Client ID:	MW-3-20210930				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



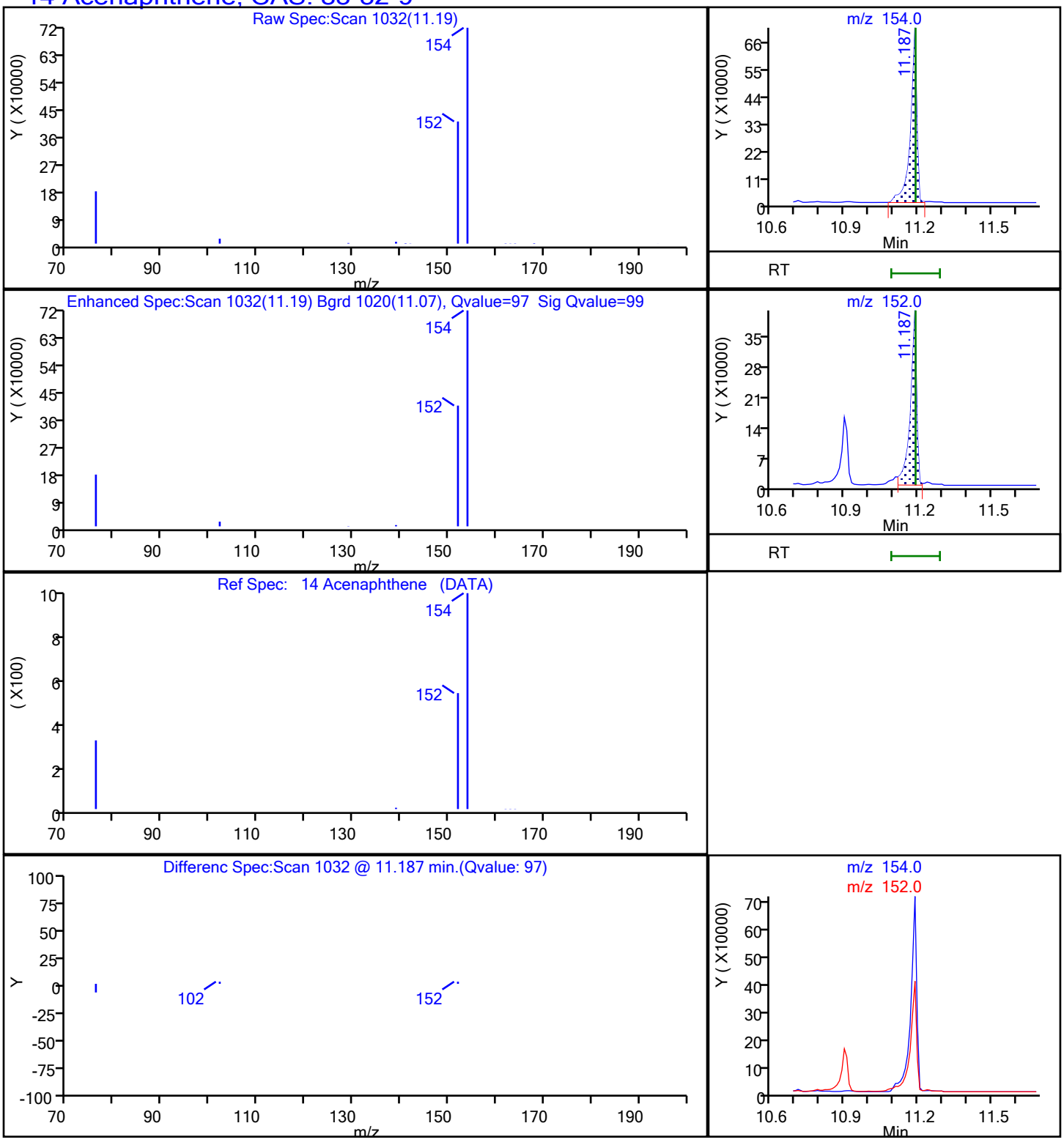
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0804.D

Injection Date:	12-Oct-2021 07:42:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
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



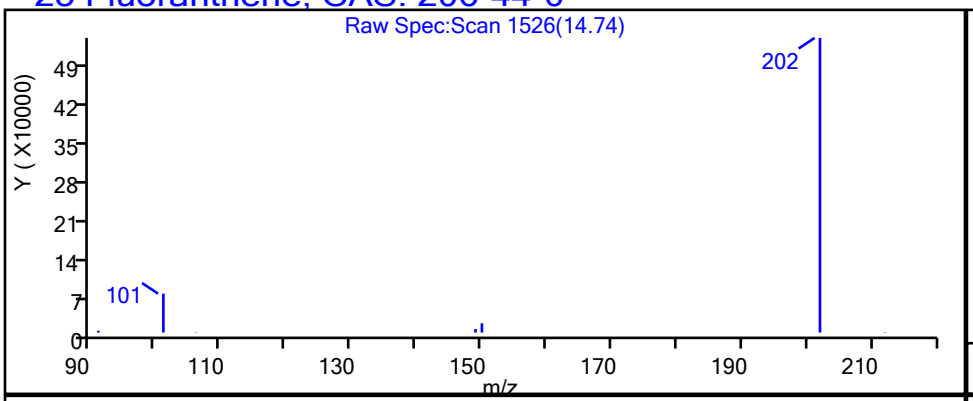
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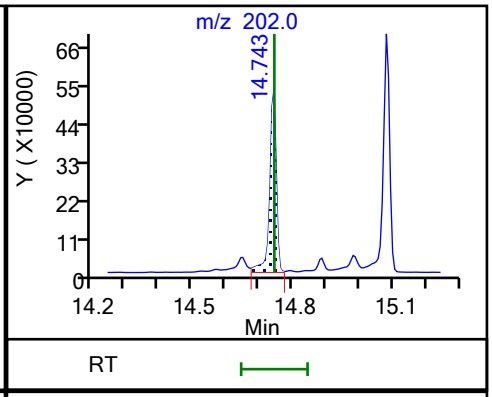
Eurofins Lancaster Laboratories Env, LLC

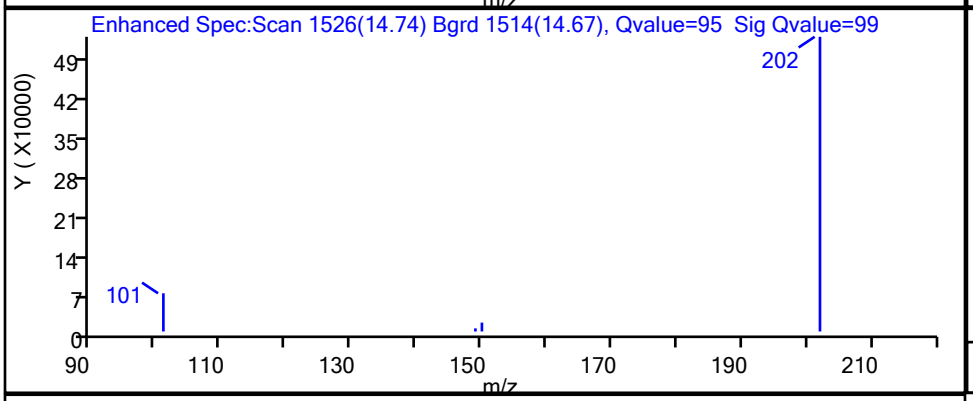
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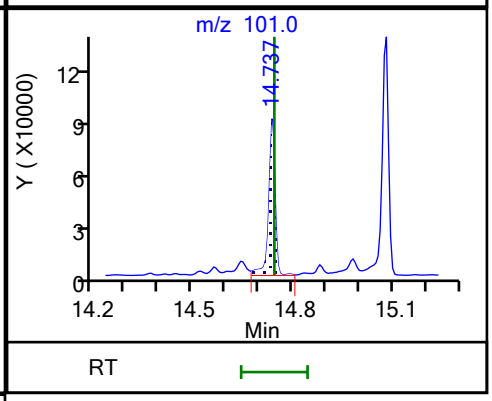
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Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

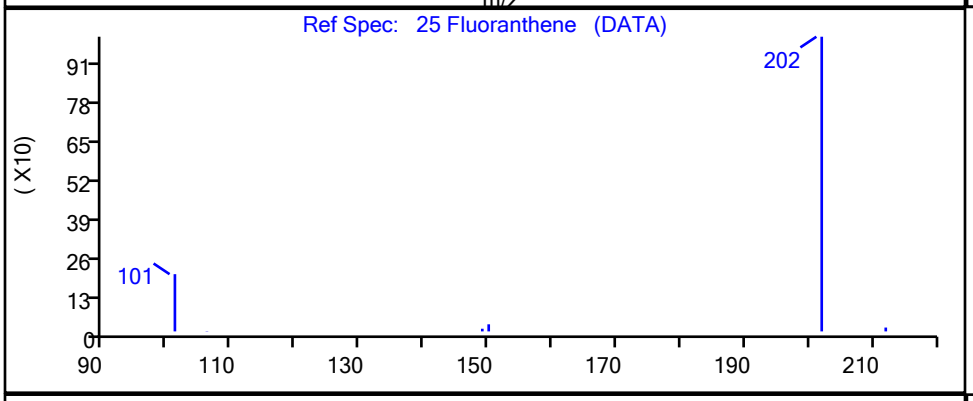
25 Fluoranthene, CAS: 206-44-0

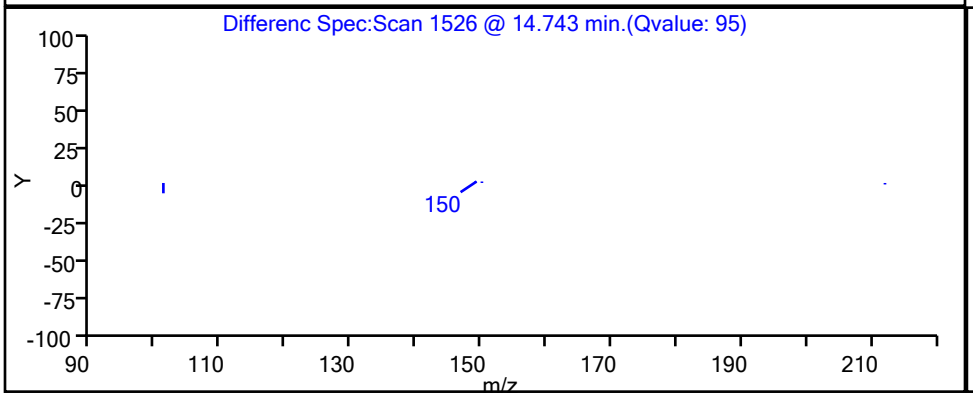


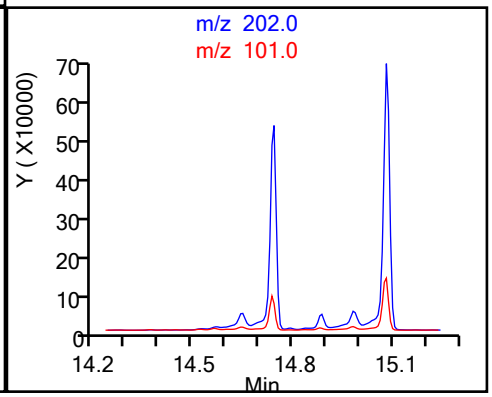










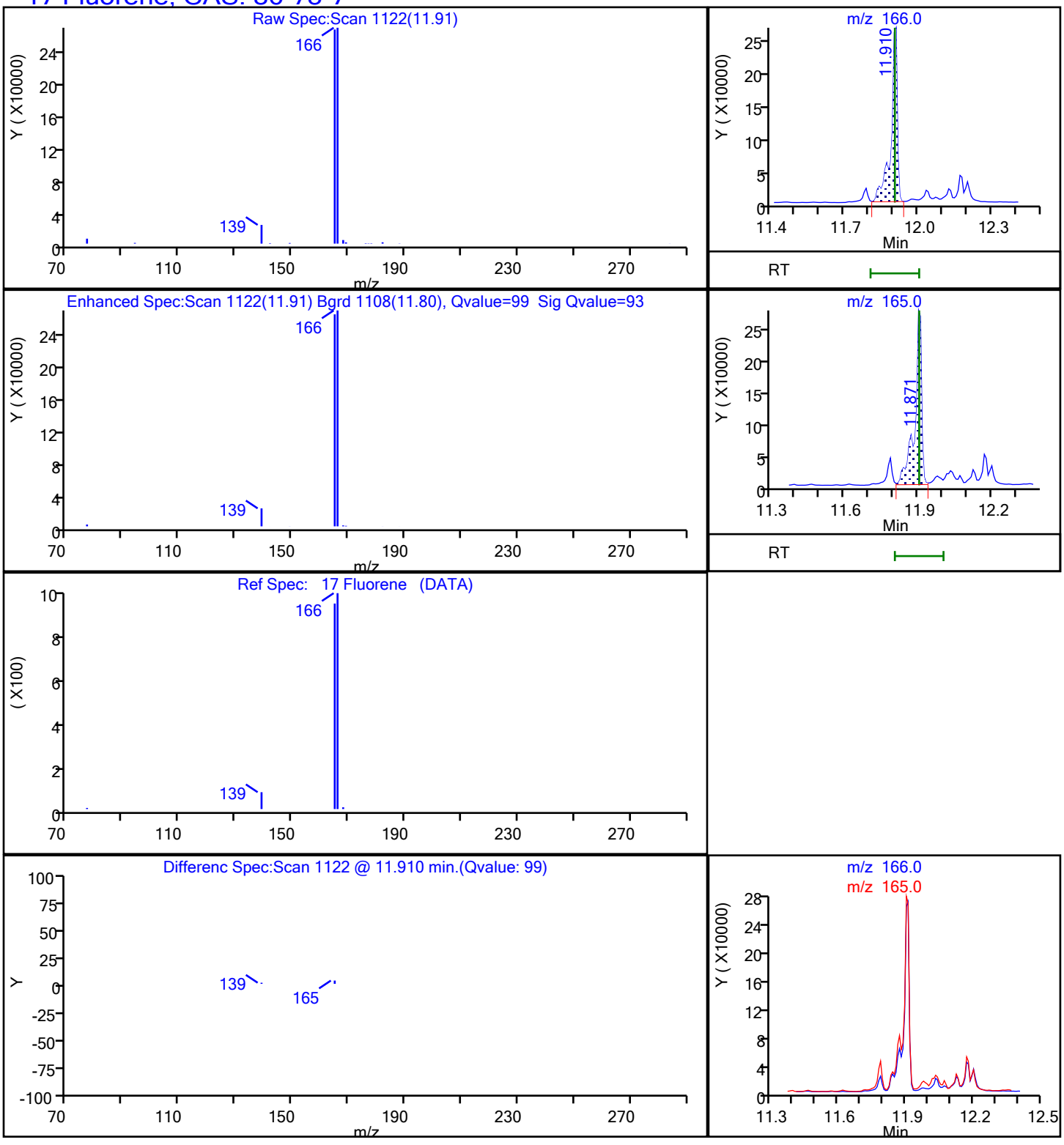


Report Date: 13-Oct-2021 07:27:25 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0804.D				
Injection Date:	12-Oct-2021 07:42:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
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

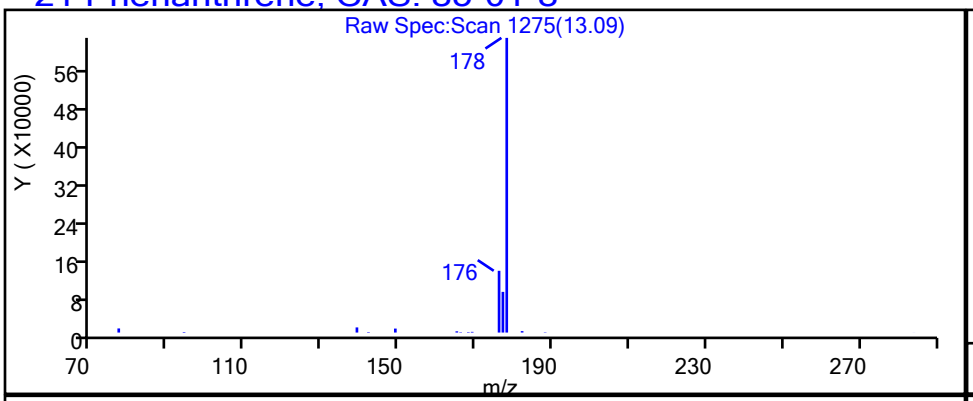


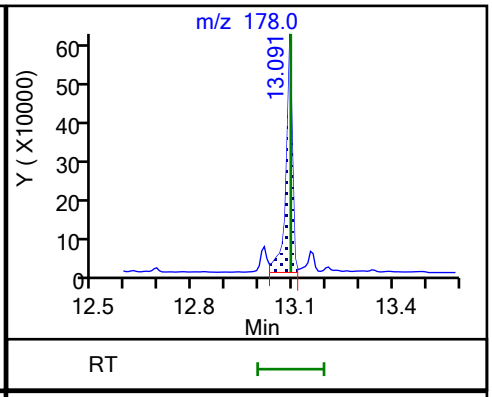
Report Date: 13-Oct-2021 07:27:25 Chrom Revision: 2.3 22-Sep-2021 15:38:46

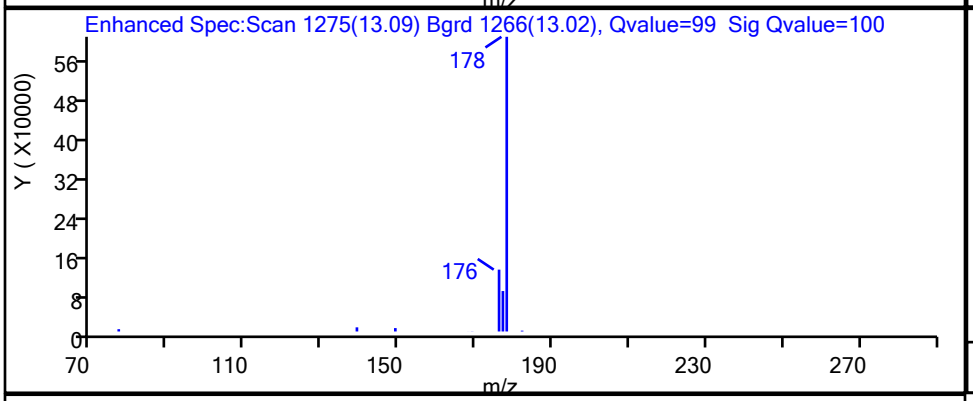
Eurofins Lancaster Laboratories Env, LLC

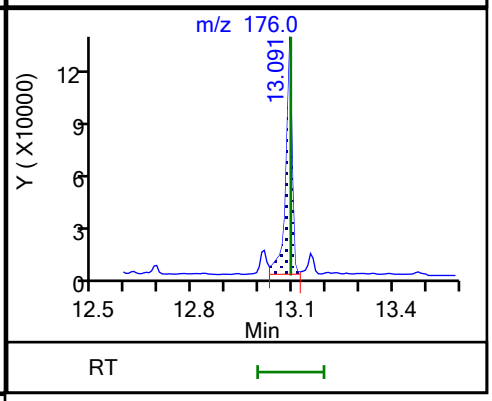
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Injection Date:	12-Oct-2021 07:42:30	Instrument ID:	HP23263
Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17
Client ID:	MW-3-20210930		
Operator ID:	jmg00346	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

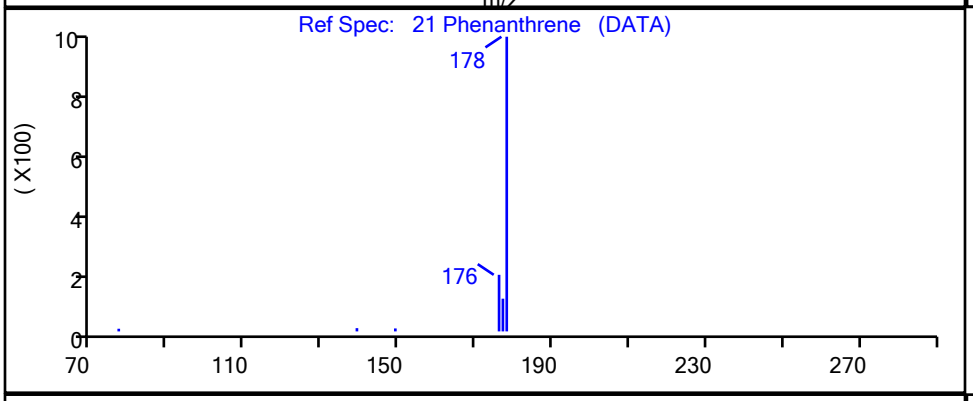
21 Phenanthrene, CAS: 85-01-8

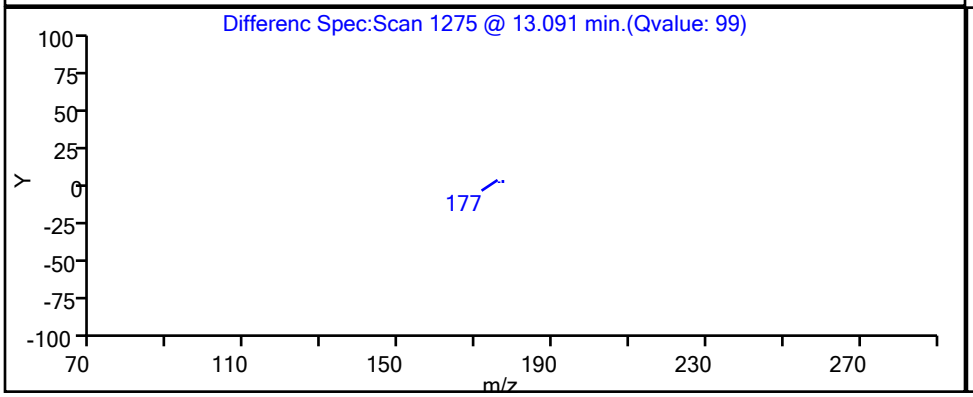


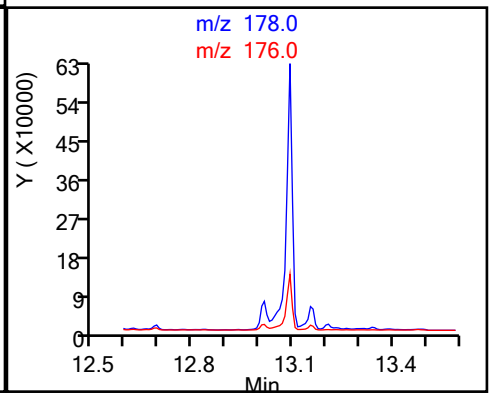












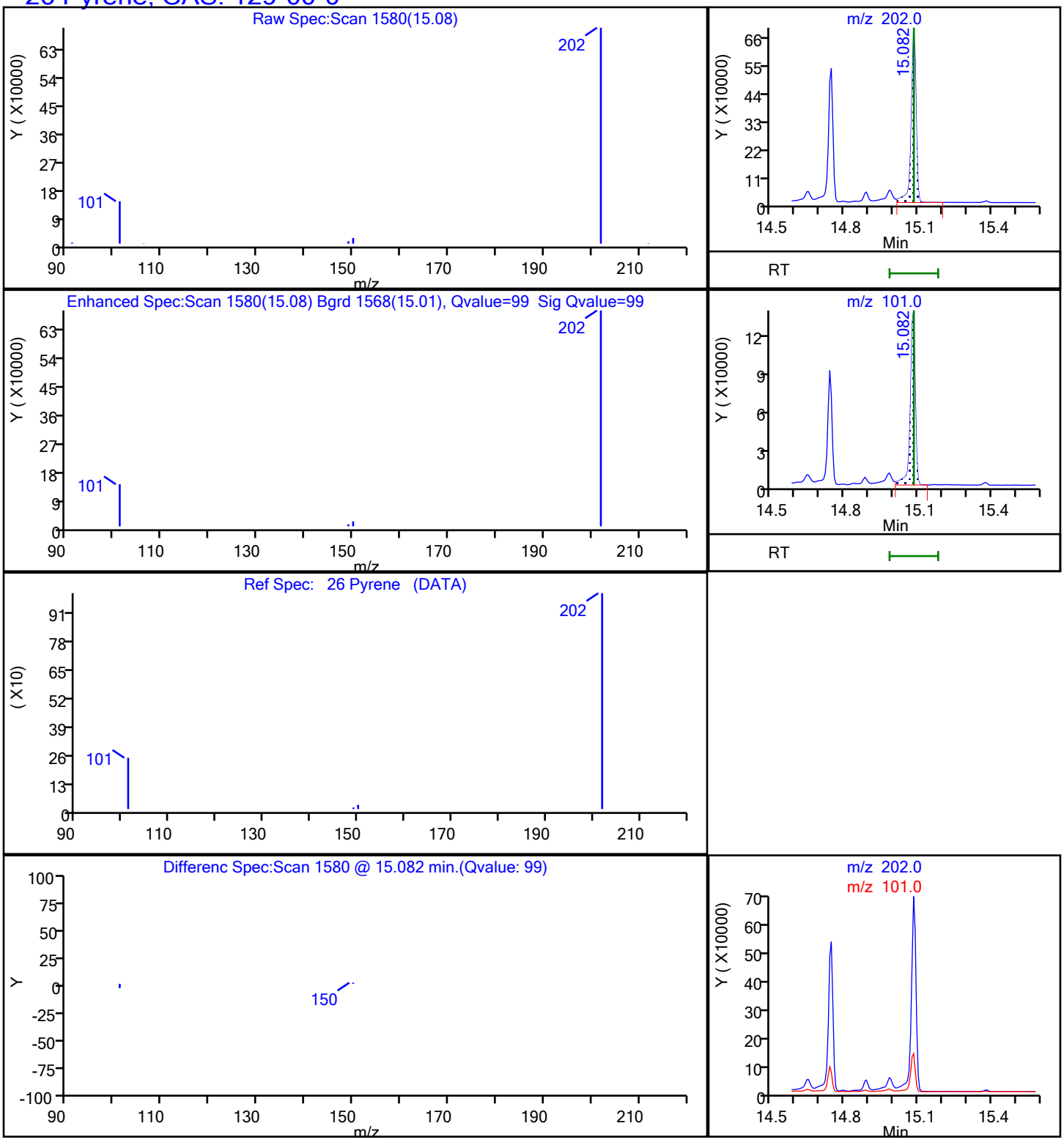
Report Date: 13-Oct-2021 07:27:25 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0804.D

Injection Date:	12-Oct-2021 07:42:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
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

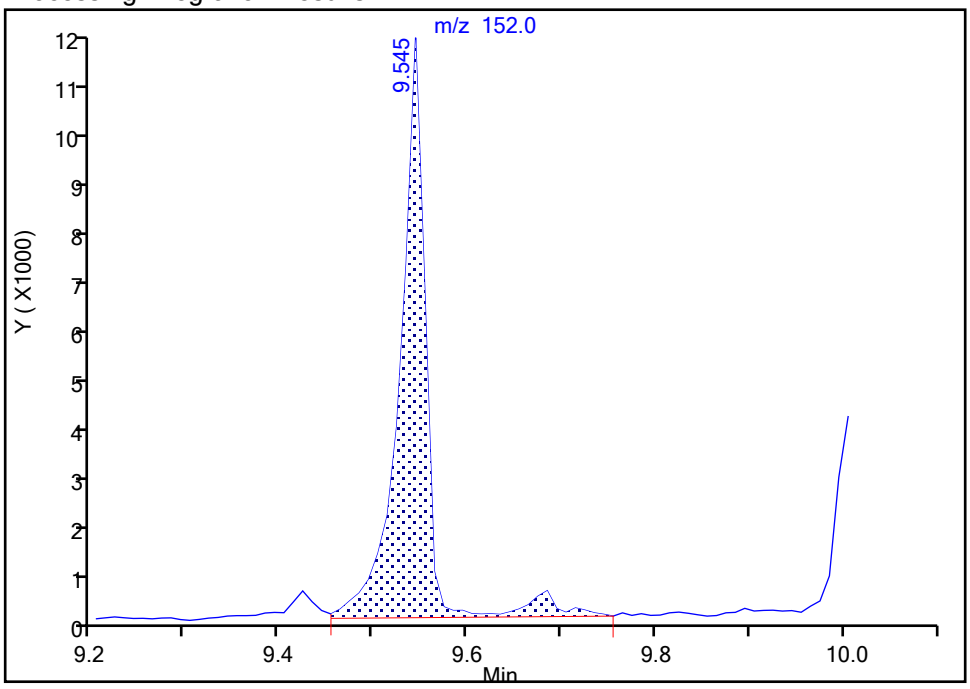
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Injection Date:	12-Oct-2021 07:42:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A DL	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
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

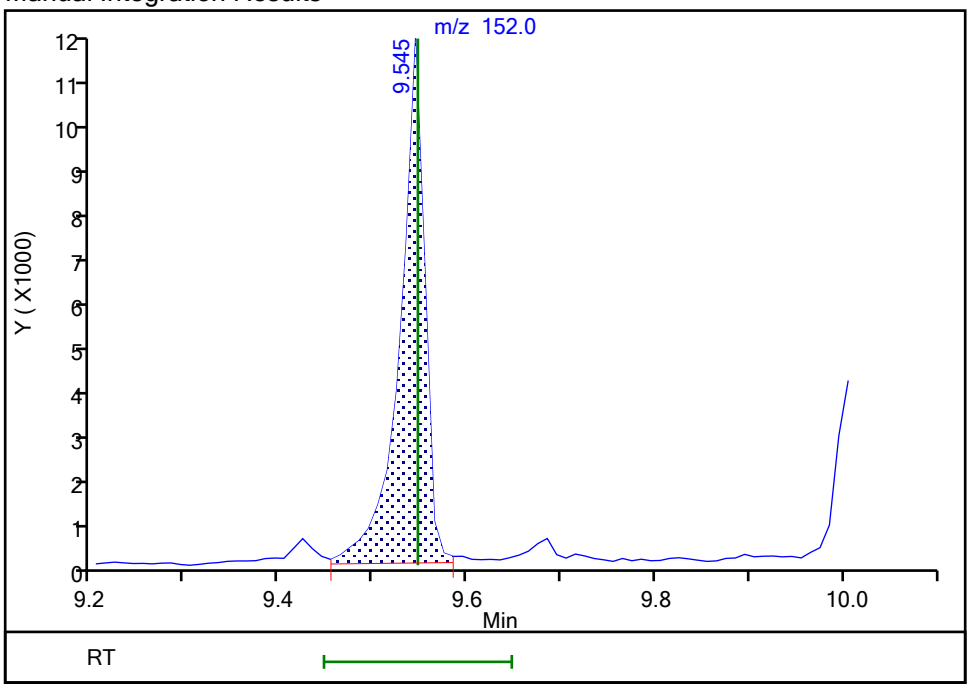
Processing Integration Results

RT: 9.54
Area: 22107
Amount: 0.044934
Amount Units: ug/ml



Manual Integration Results

RT: 9.54
Area: 20695
Amount: 0.042064
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 07:04:56
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-3-20210930 DL2 Lab Sample ID: 410-57303-17 DL2

Matrix: Ground Water Lab File ID: NJ0805.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 08:22

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 237.2(mL) Date Analyzed: 10/12/2021 08:12

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.: 181545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	110		1.5	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	87		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	83		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\HP23263\20211012-41293.b\NJ0805.D
Lims ID: 410-57303-B-17-A DL2
Client ID: MW-3-20210930
Sample Type: Client
Inject. Date: 12-Oct-2021 08:12:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 410-57303-B-17-A
Misc. Info.: 410-0041293-006
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 07:26:59 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 07:06:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	84	75383	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	252061	0.2500	
6 Naphthalene	128	8.304	8.316	0.000	99	1469950	1.32	
$ 9 1-Methylnaphthalene-d10	152	9.547	9.545	0.000	70	5359	0.0104	
12 Acenaphthylene	152	10.899	10.897	0.000	99	75833	0.0742	
* 13 Acenaphthene-d10	164	11.139	11.139	0.000	96	117833	0.2500	
14 Acenaphthene	154	11.180	11.189	-0.010	96	316528	0.5676	
17 Fluorene	166	11.904	11.912	0.000	96	121752	0.1692	
* 20 Phenanthrene-d10	188	13.063	13.063	0.000	100	186674	0.2500	
21 Phenanthrene	178	13.086	13.101	-0.008	99	216443	0.2279	
22 Anthracene	178	13.155	13.161	0.000	99	20961	0.0244	M
$ 24 Fluoranthene-d10 (Surr)	212	14.713	14.750	0.000	98	8597	0.0113	
25 Fluoranthene	202	14.738	14.743	-0.006	96	208271	0.2065	
26 Pyrene	202	15.083	15.082	0.000	97	273775	0.2855	
28 Benzo[a]anthracene	228	17.097	17.166	-0.008	98	14982	0.0185	
* 29 Chrysene-d12	240	17.120	17.120	0.000	82	133671	0.2500	
30 Chrysene	228	17.158	17.165	-0.008	100	8424	0.0108	
33 Benzo[b]fluoranthene	252	18.968	18.975	-0.008	99	619	0.000838	7M
34 Benzo[k]fluoranthene	252	19.014	19.021	-0.008	86	463	0.000600	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.459	19.466	-0.008	100	4883	0.0108	
* 38 Perylene-d12	264	19.590	19.597	-0.007	98	122183	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

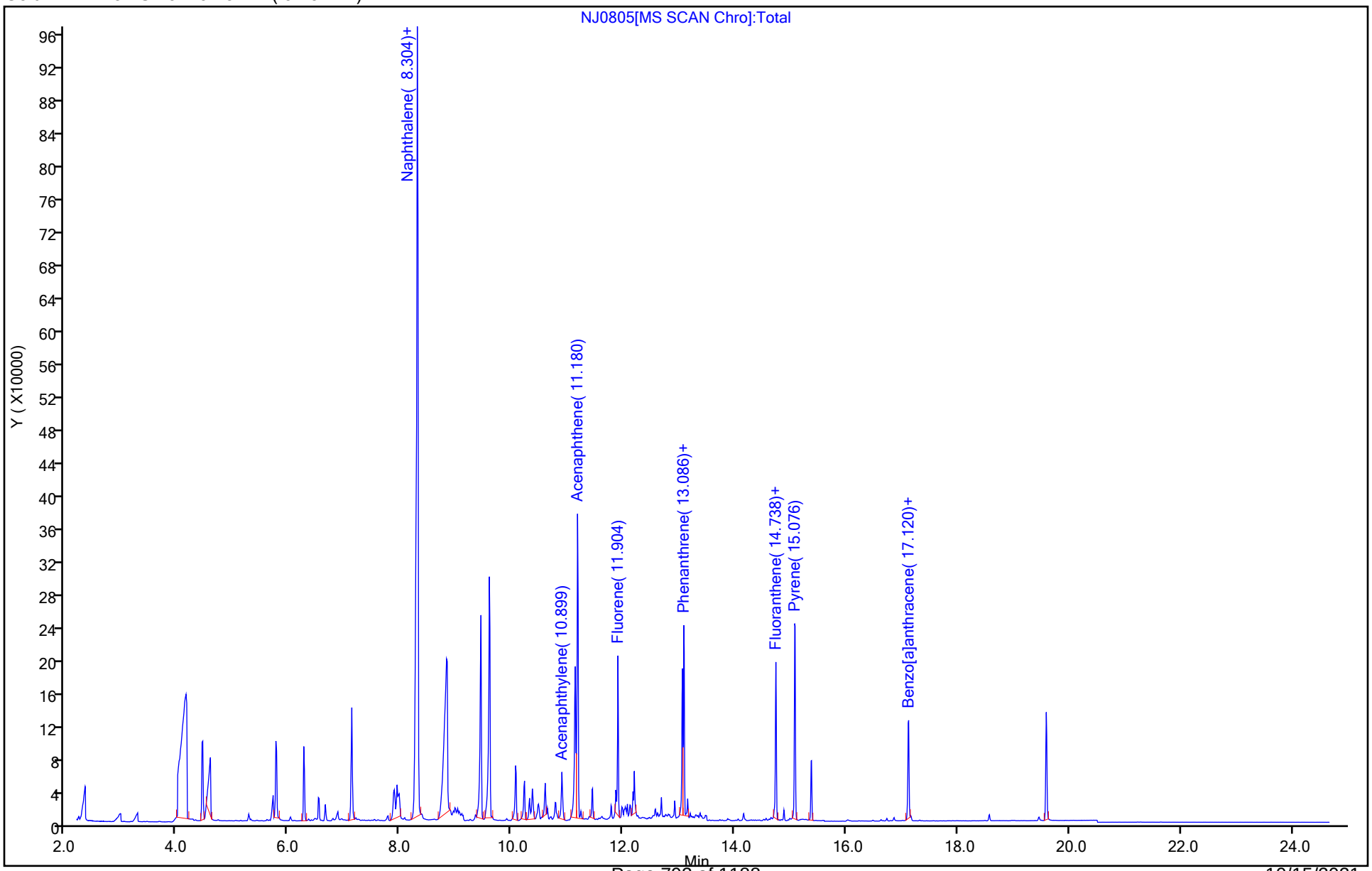
Report Date: 13-Oct-2021 07:27:26 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0805.D

Injection Date:	12-Oct-2021 08:12:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-17-A DL2	Lab Sample ID:	410-57303-17	Worklist Smp#:	6
Client ID:	MW-3-20210930				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



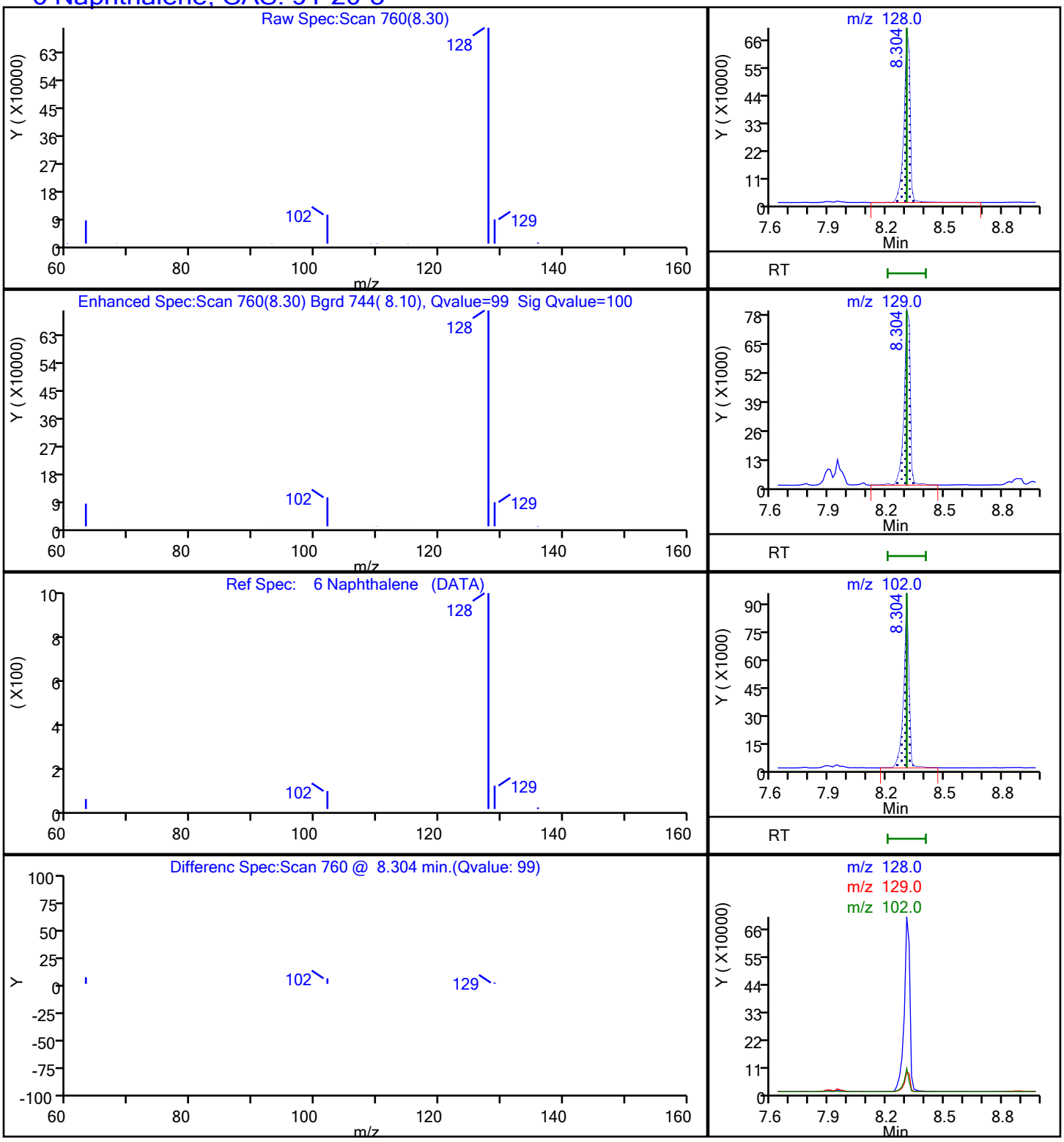
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0805.D

Injection Date:	12-Oct-2021 08:12:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-17-A DL2	Lab Sample ID:	410-57303-17		
Client ID:	MW-3-20210930				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
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



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-13S-20210930 Lab Sample ID: 410-57303-18

Matrix: Ground Water Lab File ID: NJ0783.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 09:14

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 242.5(mL) Date Analyzed: 10/11/2021 20:36

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.: 181246 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	1.2		0.052	0.010
120-12-7	Anthracene	6.0		0.052	0.010
56-55-3	Benzo[a]anthracene	1.2		0.052	0.010
50-32-8	Benzo[a]pyrene	0.057		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.073		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.030	J	0.052	0.010
218-01-9	Chrysene	0.82		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	5.4		0.052	0.010
86-73-7	Fluorene	9.7		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
129-00-0	Pyrene	7.1		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	81		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		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\20211011-41227.b\NJ0783.D
Lims ID: 410-57303-B-18-A
Client ID: MW-13S-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 20:36:30 ALS Bottle#: 24 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-18-A
Misc. Info.: 410-0041227-043
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 22:40:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: saadehw Date: 11-Oct-2021 22:38:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.280	6.267	0.013	97	79399	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	78	258356	0.2500	
6 Naphthalene	128	8.317	8.317	0.013	98	10517731	9.21	E
$ 9 1-Methylnaphthalene-d10	152	9.545	9.561	-0.002	56	106425	0.2014	
12 Acenaphthylene	152	10.907	10.897	0.008	100	323731	0.2860	
* 13 Acenaphthene-d10	164	11.137	11.140	-0.003	35	130474	0.2500	
14 Acenaphthene	154	11.187	11.199	-0.003	95	3664850	5.93	E
17 Fluorene	166	11.833	11.902	-0.072	97	1875691	2.35	
* 20 Phenanthrene-d10	188	13.068	13.063	0.005	97	187298	0.2500	Ma
21 Phenanthrene	178	13.099	13.099	0.005	99	8273383	8.68	EMa
22 Anthracene	178	13.161	13.161	0.006	99	1250101	1.45	Ma
$ 24 Fluoranthene-d10 (Surr)	212	14.718	14.718	0.005	99	166747	0.2186	a
25 Fluoranthene	202	14.743	14.743	-0.001	99	1321055	1.31	
26 Pyrene	202	15.088	15.082	0.005	98	1810870	1.72	
28 Benzo[a]anthracene	228	17.104	17.112	-0.001	76	255297	0.2863	
* 29 Chrysene-d12	240	17.119	17.120	-0.001	97	147130	0.2500	
30 Chrysene	228	17.165	17.165	-0.001	99	172245	0.1997	
33 Benzo[b]fluoranthene	252	18.975	18.976	-0.001	99	16042	0.0176	
34 Benzo[k]fluoranthene	252	19.021	19.021	-0.001	100	6890	0.007237	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.466	19.467	-0.001	99	113030	0.2030	
37 Benzo[a]pyrene	252	19.504	19.505	-0.001	99	11504	0.0138	
* 38 Perylene-d12	264	19.596	19.597	-0.001	99	150852	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.230	21.230	0.000	100	1093	0.001872	M
41 Dibenz(a,h)anthracene	278	21.286	21.286	-0.001	95	738	0.001250	7M
42 Benzo[g,h,i]perylene	276	21.653	21.653	-0.001	97	1136	0.001643	M

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

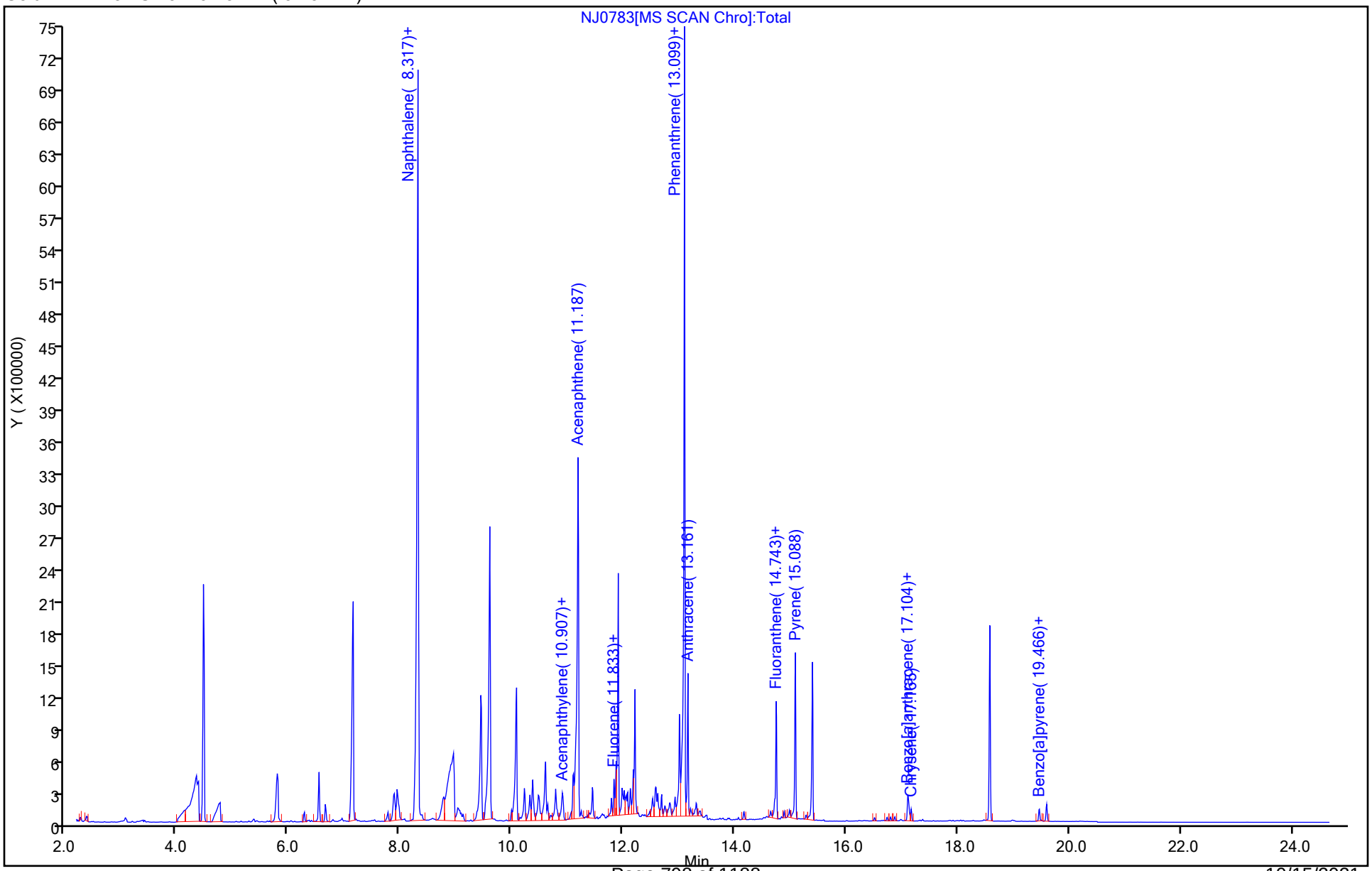
Report Date: 11-Oct-2021 22:40:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D

Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18	Worklist Smp#:	43
Client ID:	MW-13S-20210930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Report Date: 11-Oct-2021 22:40:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D

Injection Date: 11-Oct-2021 20:36:30 Instrument ID: HP23263

Lims ID: 410-57303-B-18-A Lab Sample ID: 410-57303-18

Client ID: MW-13S-20210930

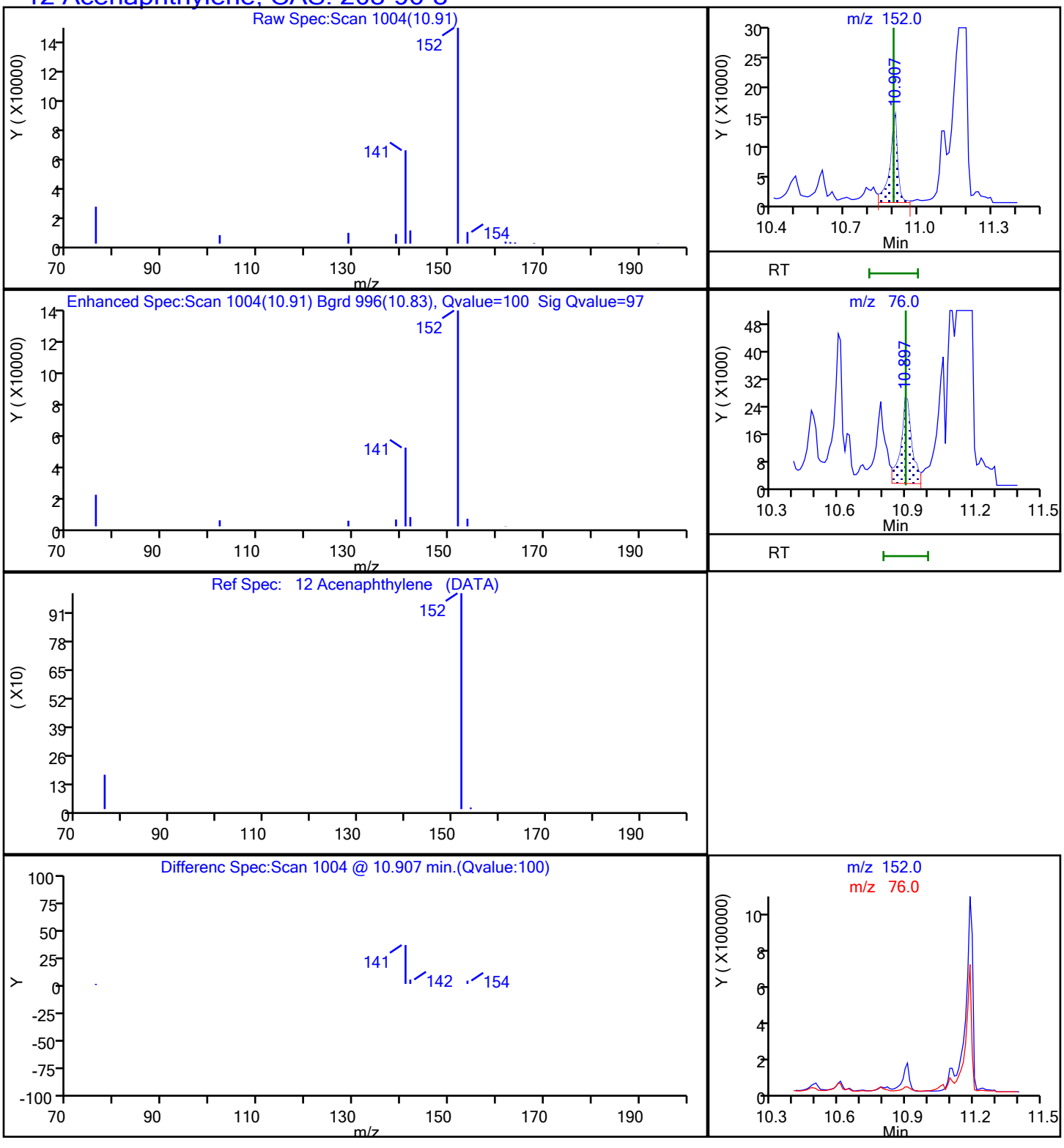
Operator ID: jmg00346 ALS Bottle#: 24 Worklist Smp#: 43

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

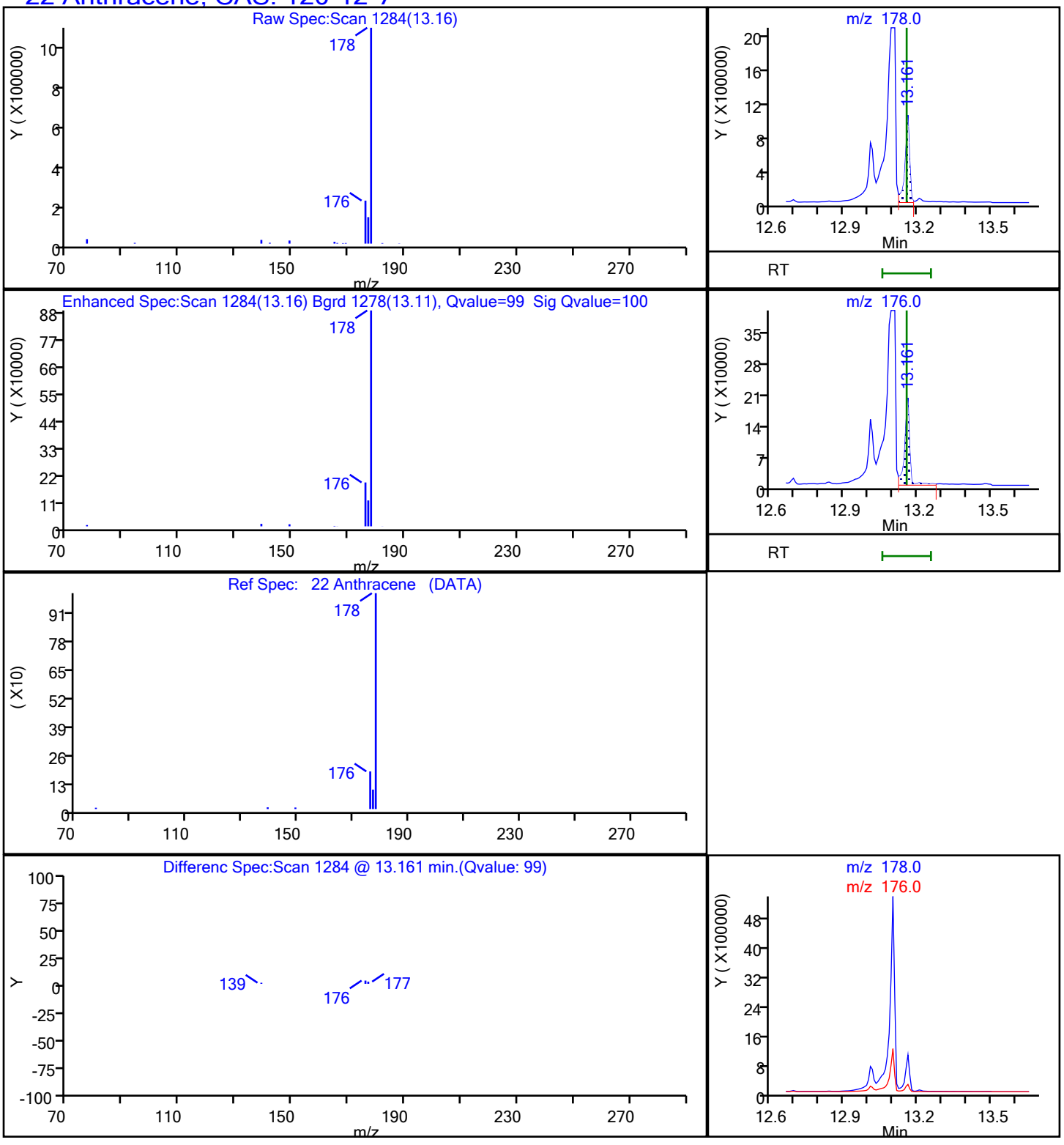
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D				
Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
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



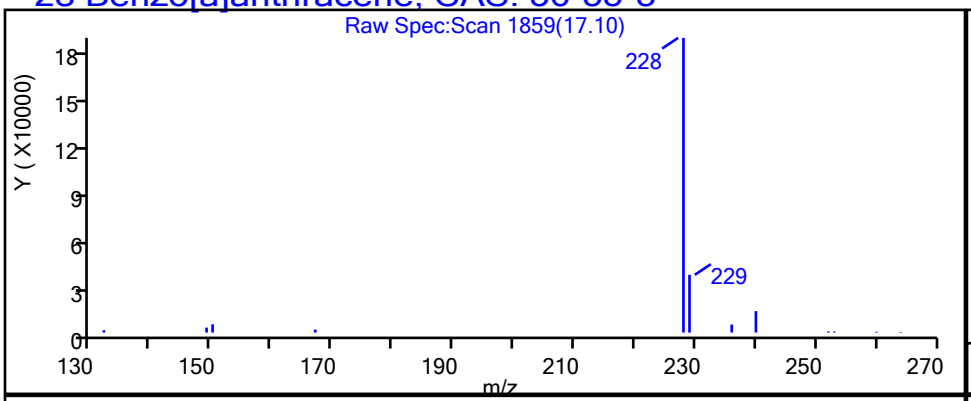
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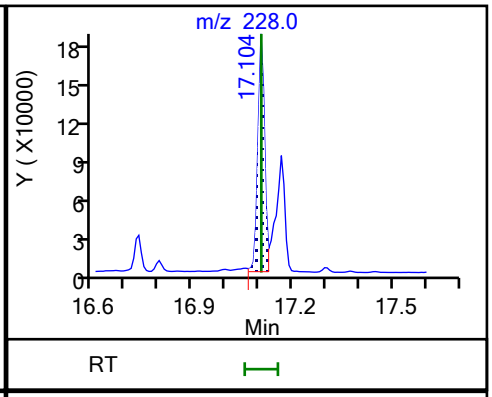
Eurofins Lancaster Laboratories Env, LLC

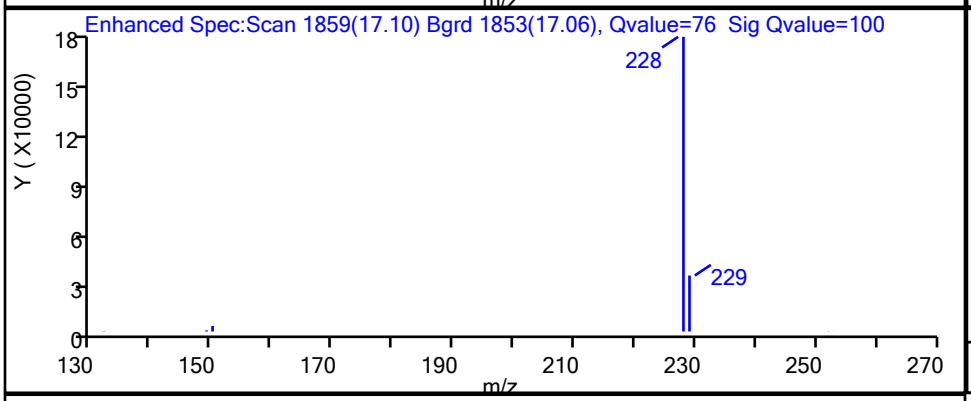
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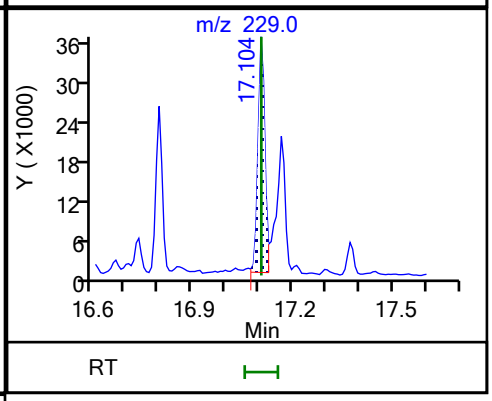
Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

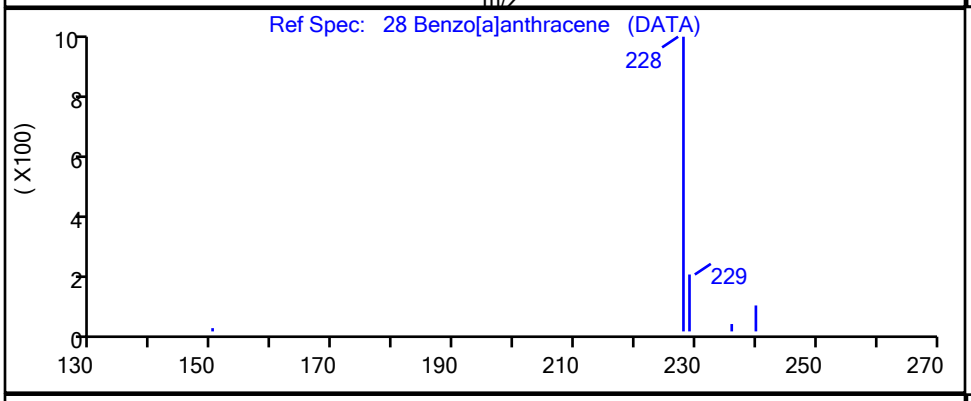
28 Benzo[a]anthracene, CAS: 56-55-3

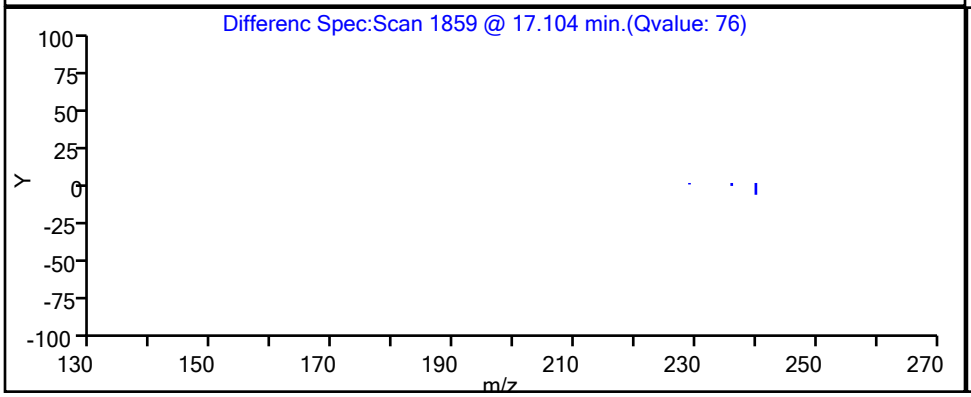


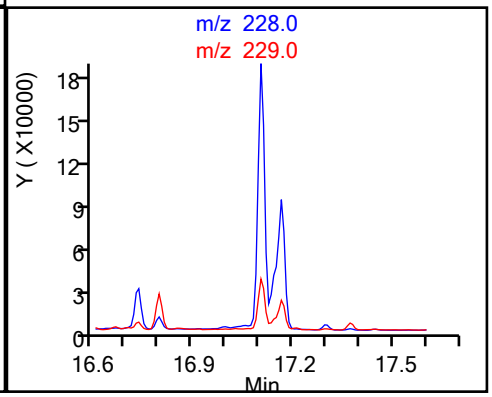












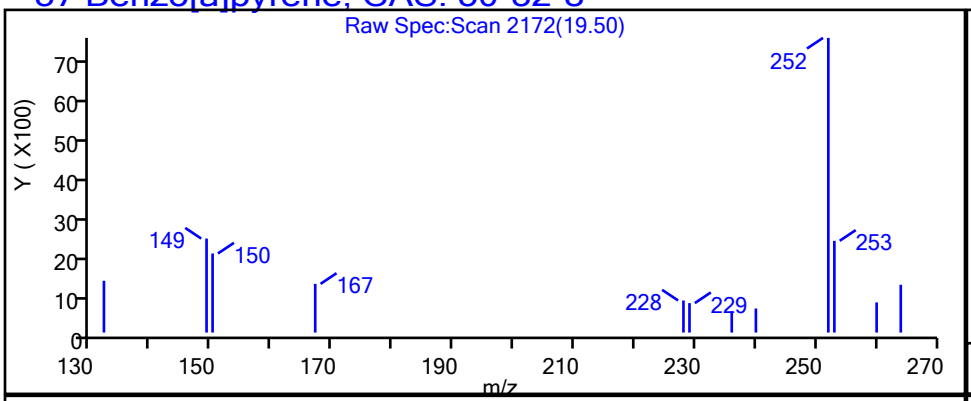
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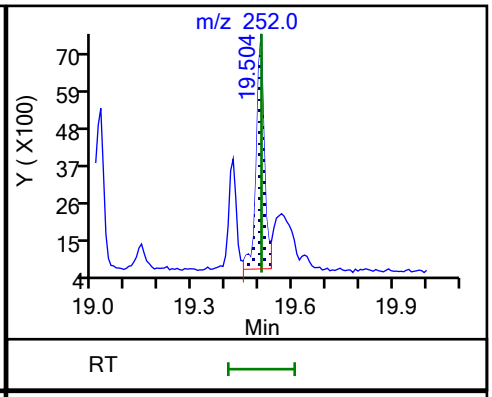
Eurofins Lancaster Laboratories Env, LLC

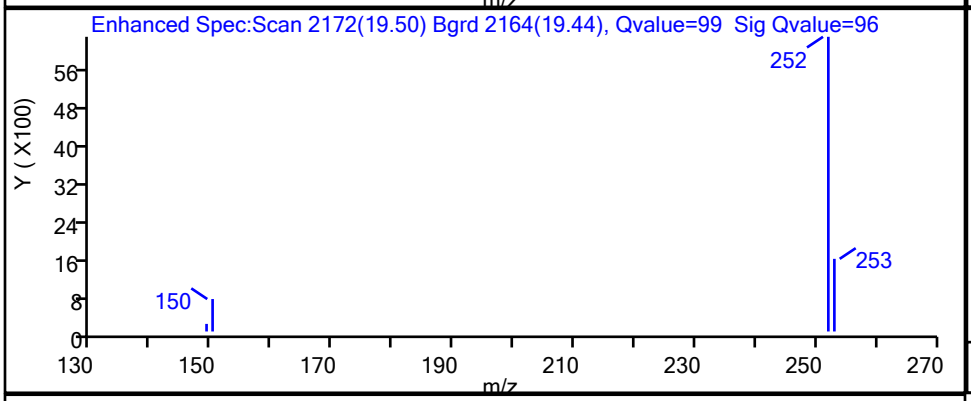
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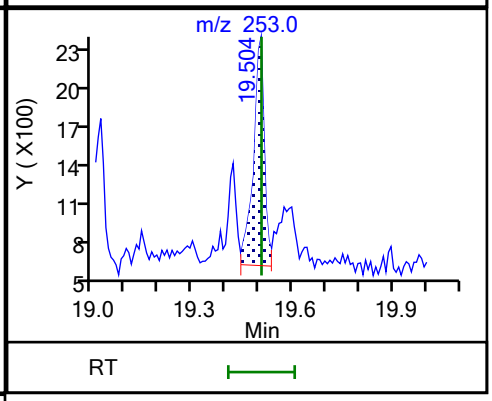
Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

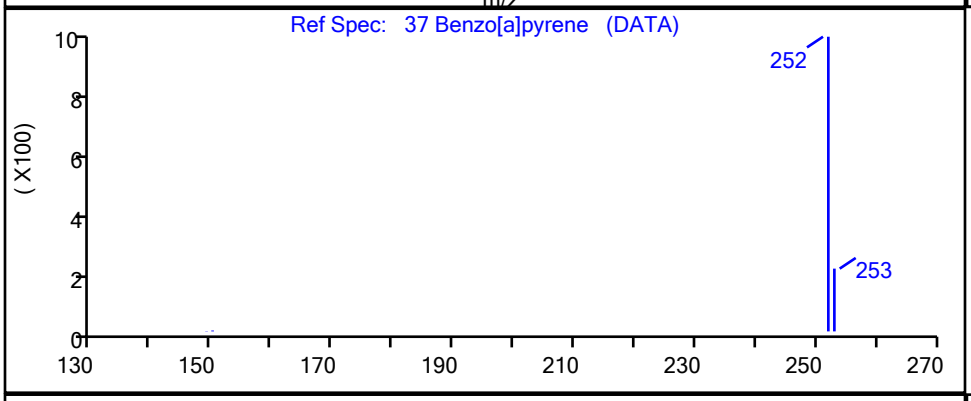
37 Benzo[a]pyrene, CAS: 50-32-8

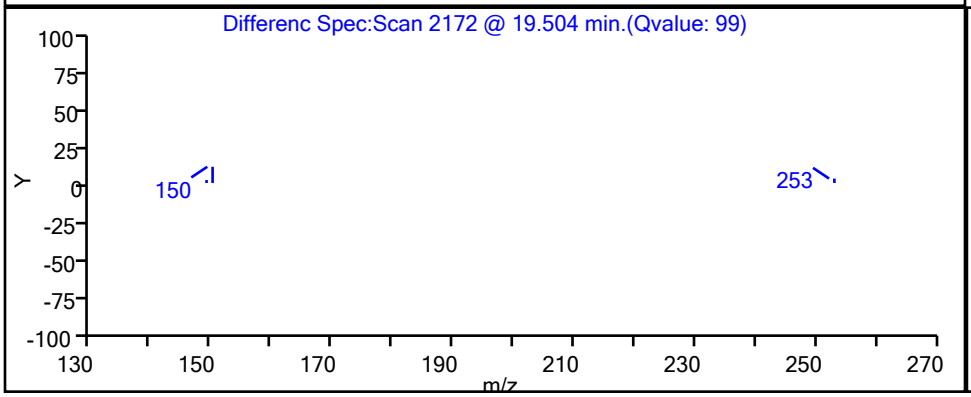


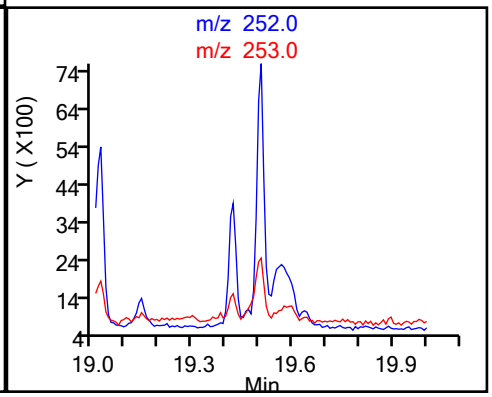










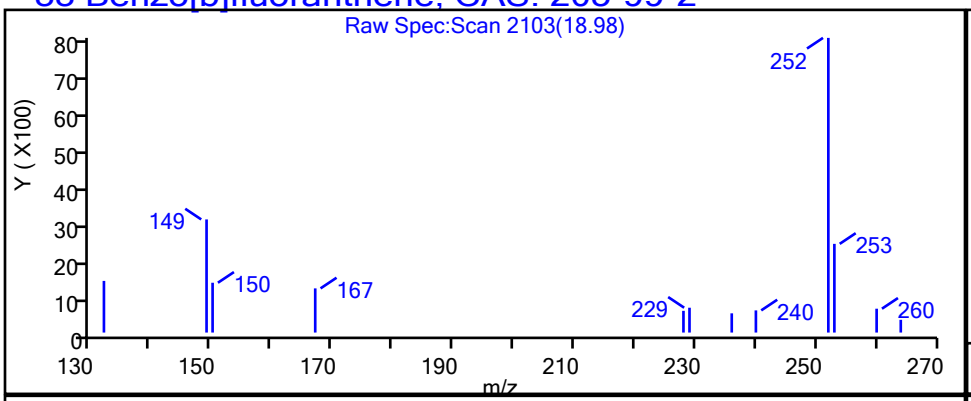


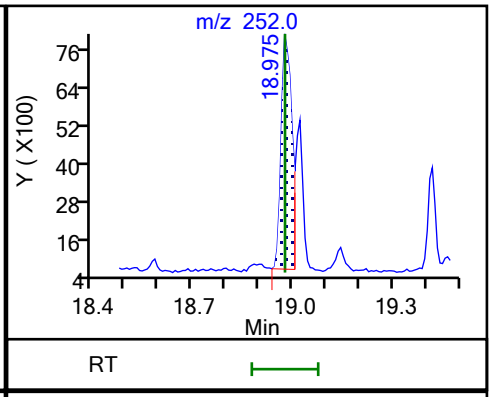
Report Date: 11-Oct-2021 22:40:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

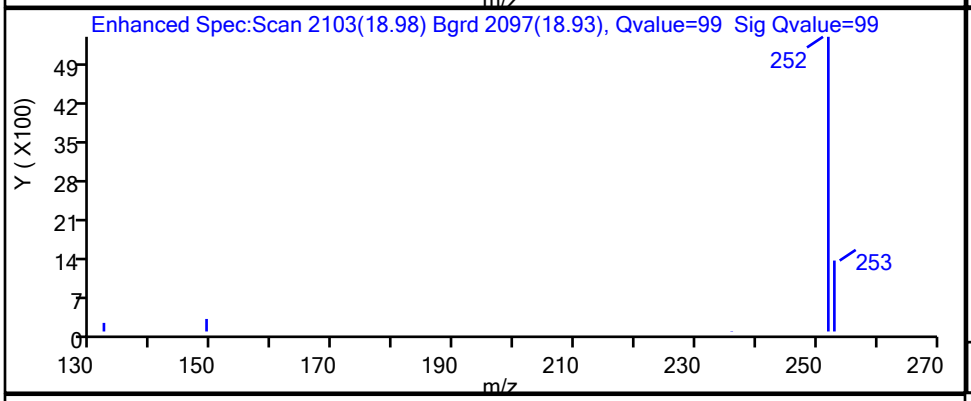
Eurofins Lancaster Laboratories Env, LLC

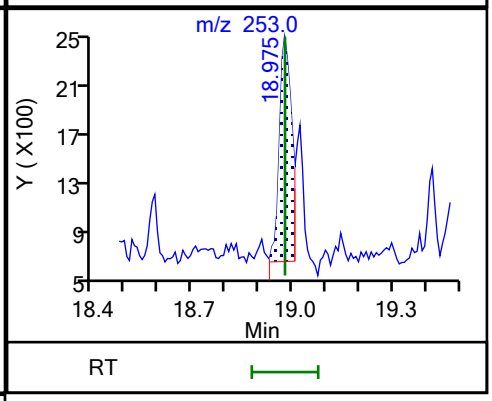
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Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

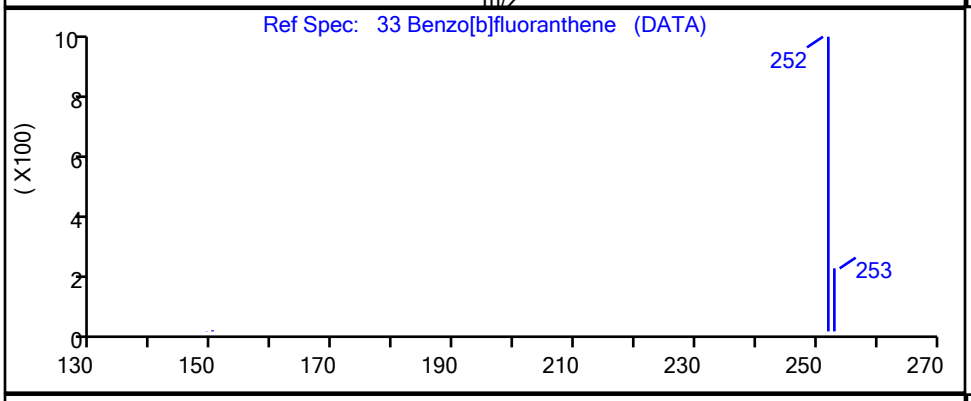
33 Benzo[b]fluoranthene, CAS: 205-99-2

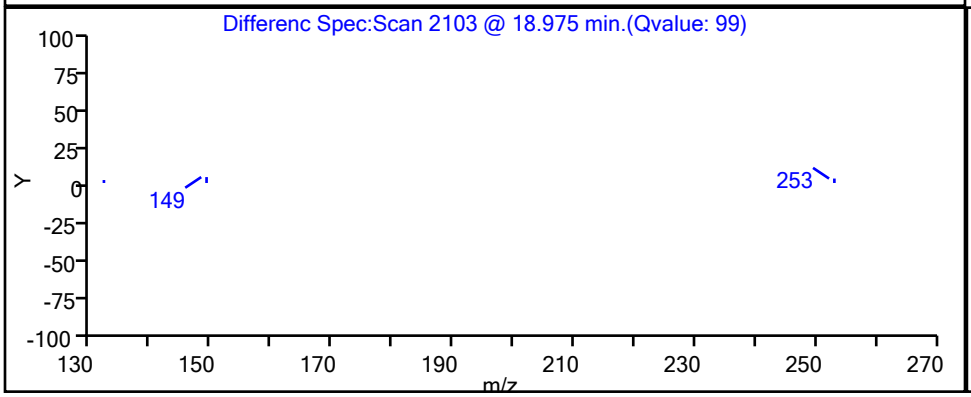


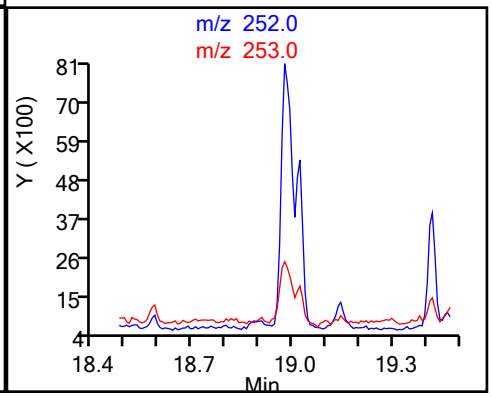








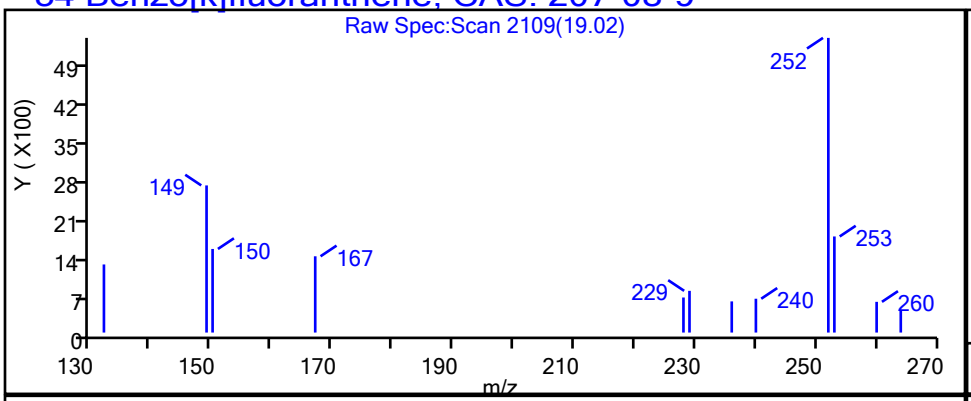


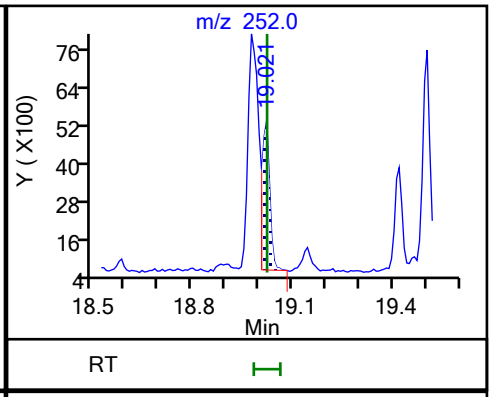


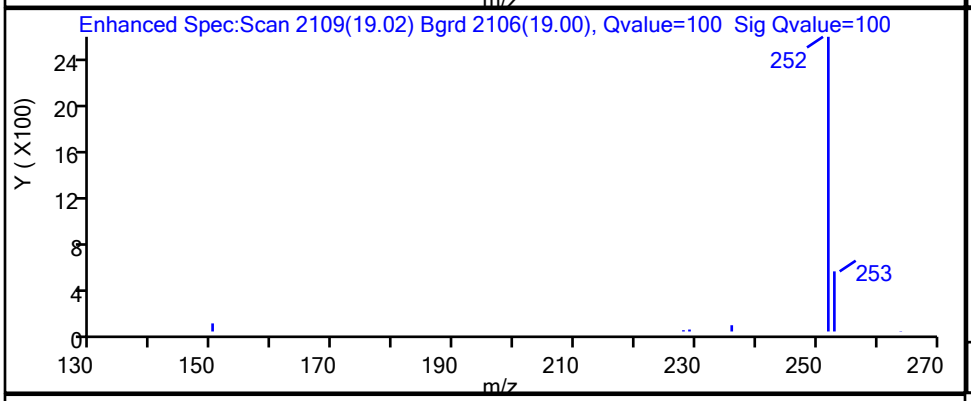
Eurofins Lancaster Laboratories Env, LLC

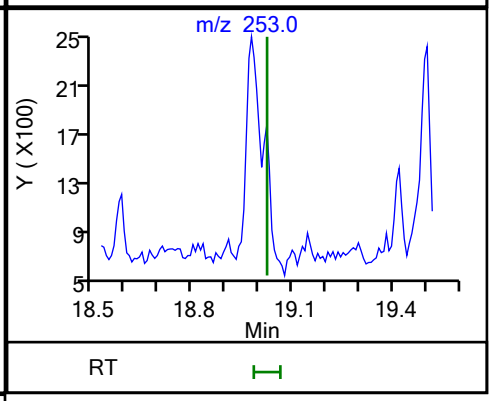
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Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

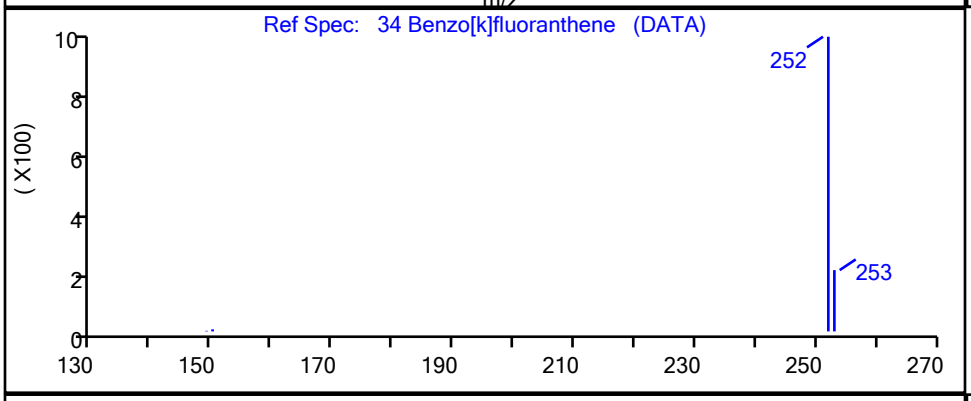
34 Benzo[k]fluoranthene, CAS: 207-08-9

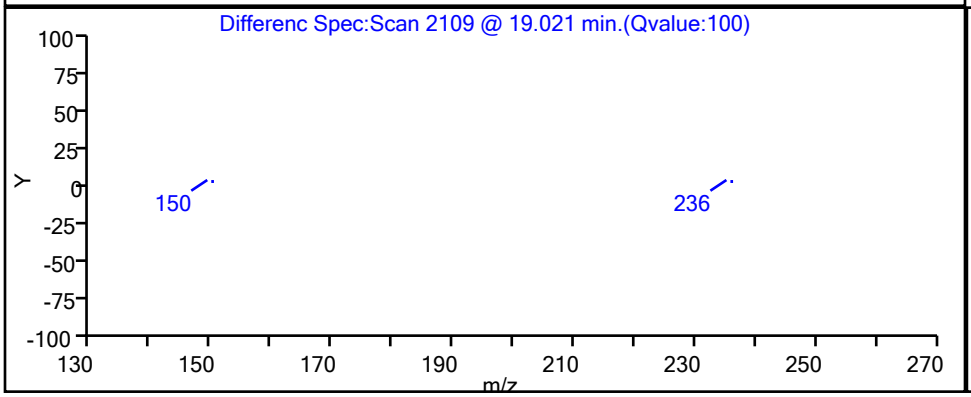


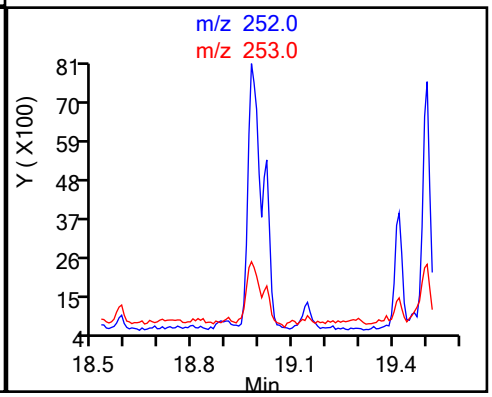












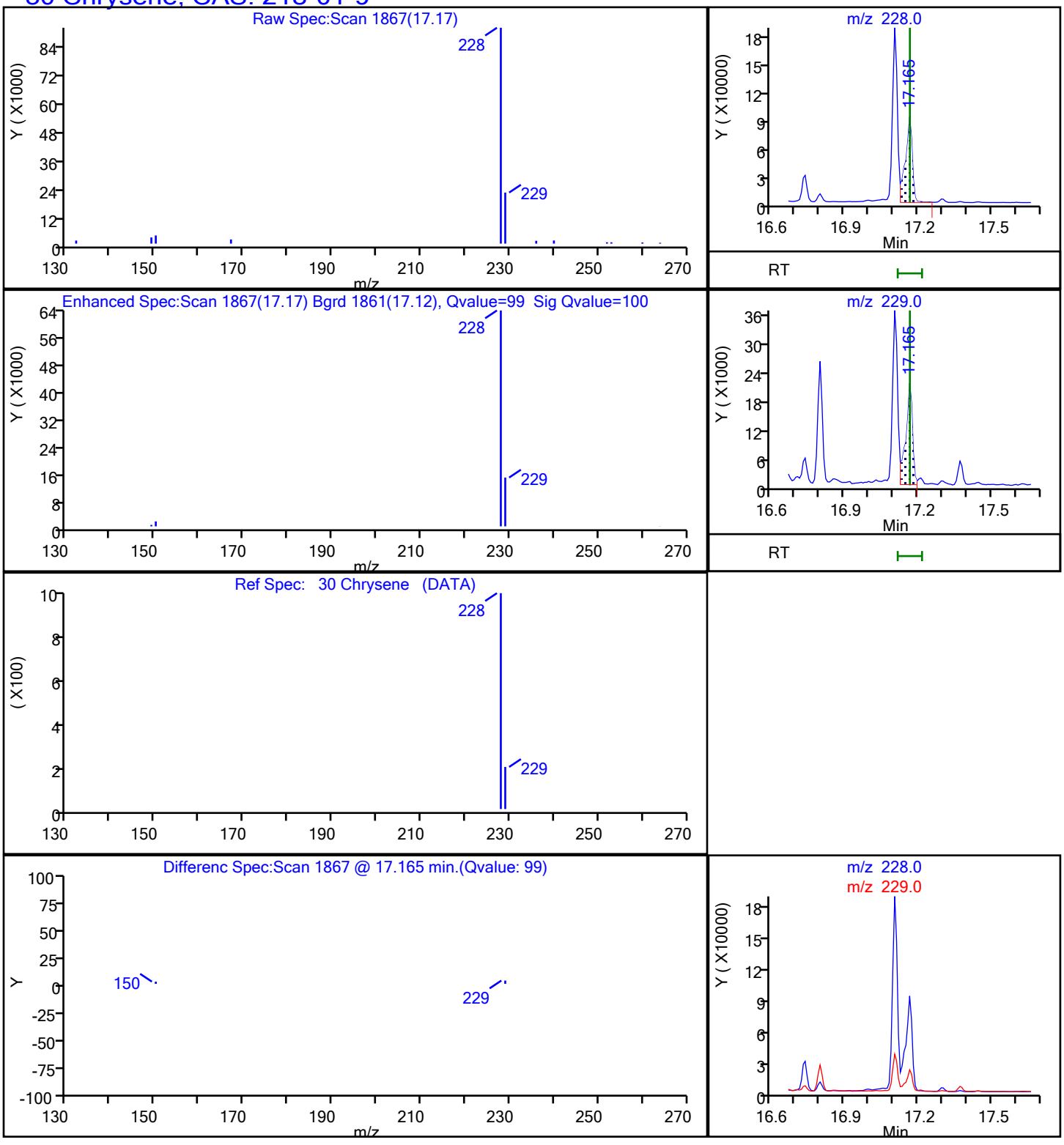
Report Date: 11-Oct-2021 22:40:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D

Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
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: 11-Oct-2021 22:40:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D

Injection Date: 11-Oct-2021 20:36:30 Instrument ID: HP23263

Lims ID: 410-57303-B-18-A Lab Sample ID: 410-57303-18

Client ID: MW-13S-20210930

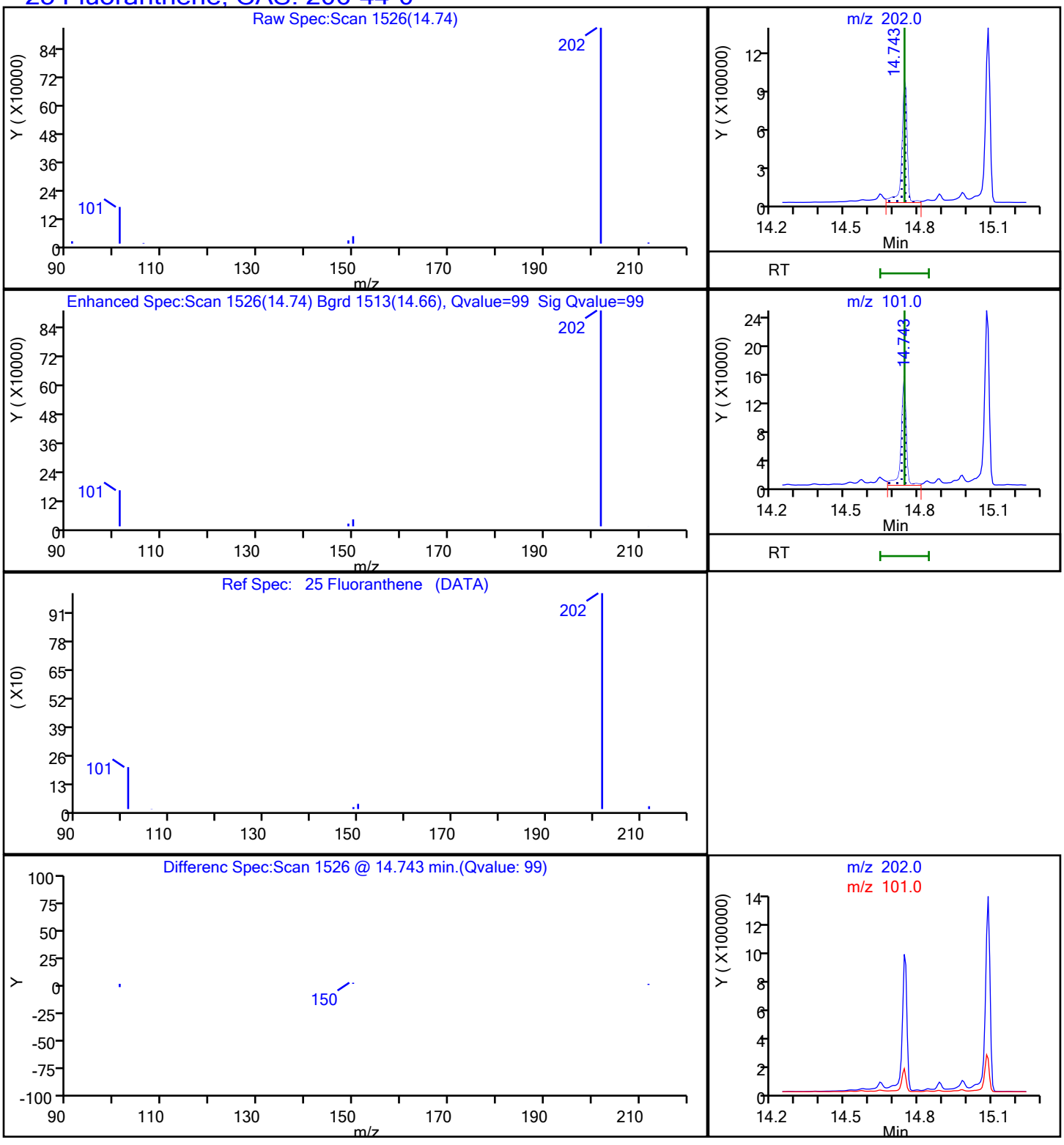
Operator ID: jmg00346 ALS Bottle#: 24 Worklist Smp#: 43

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



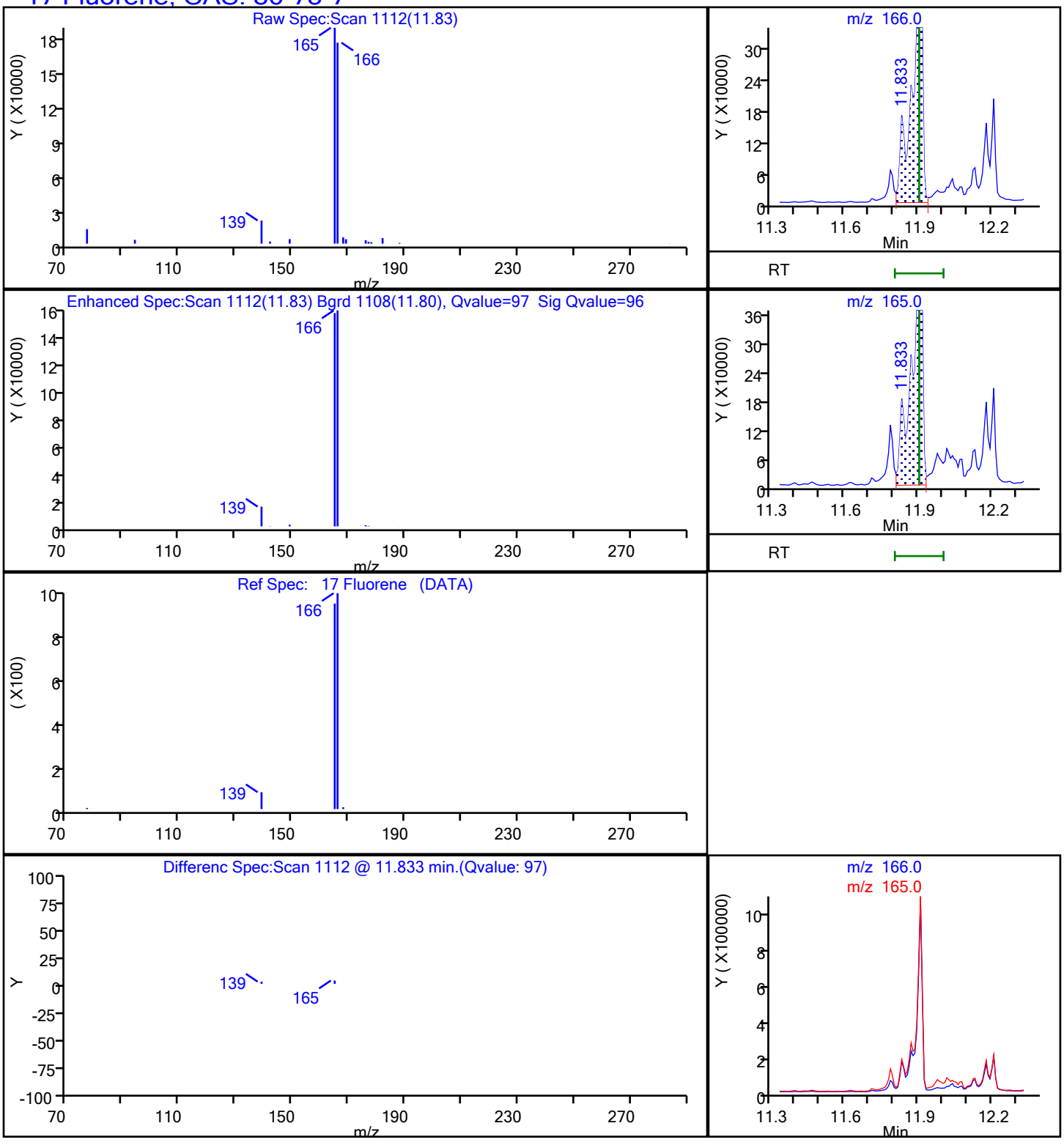
Report Date: 11-Oct-2021 22:40:19 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D

Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
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



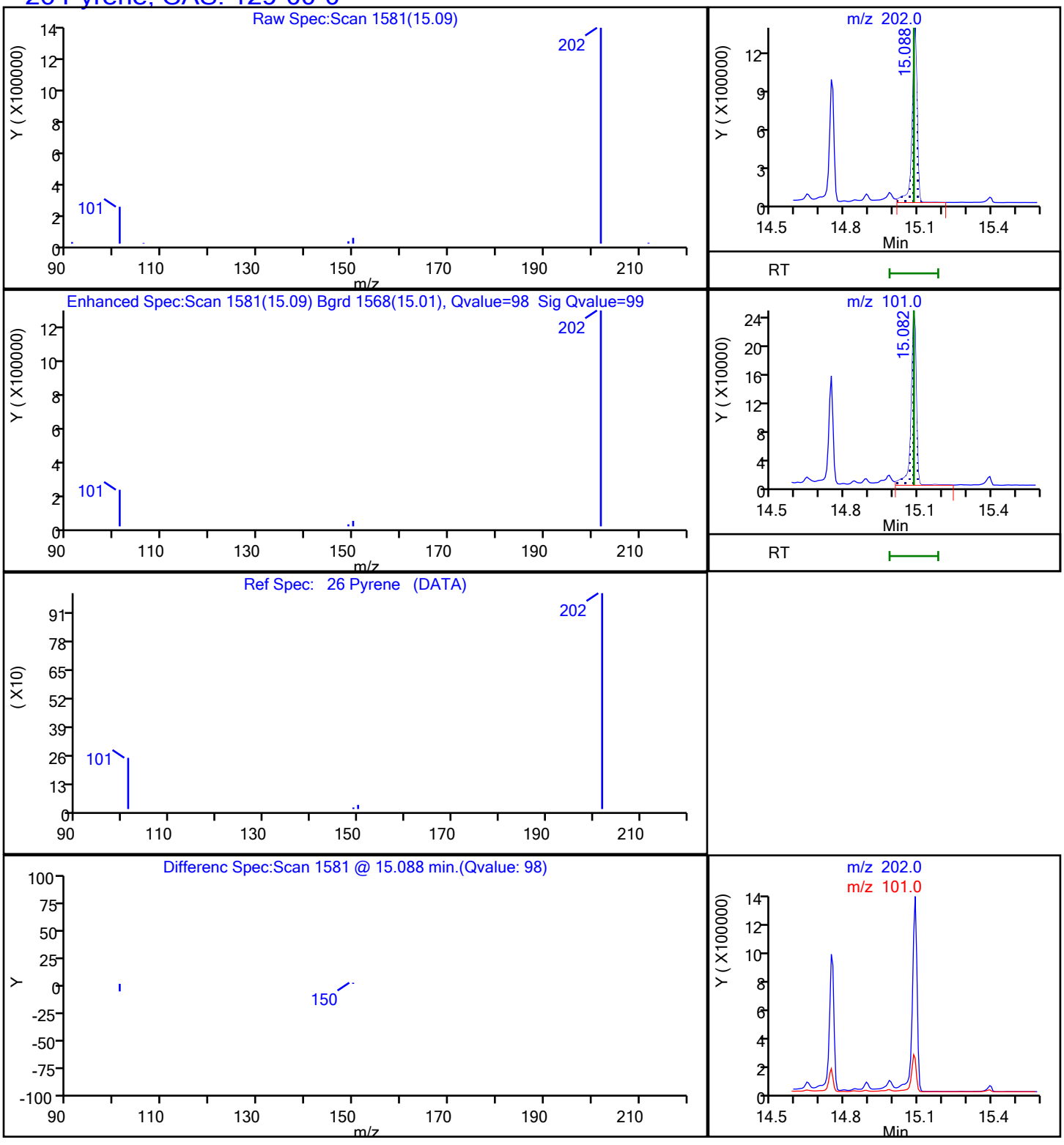
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0783.D

Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
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

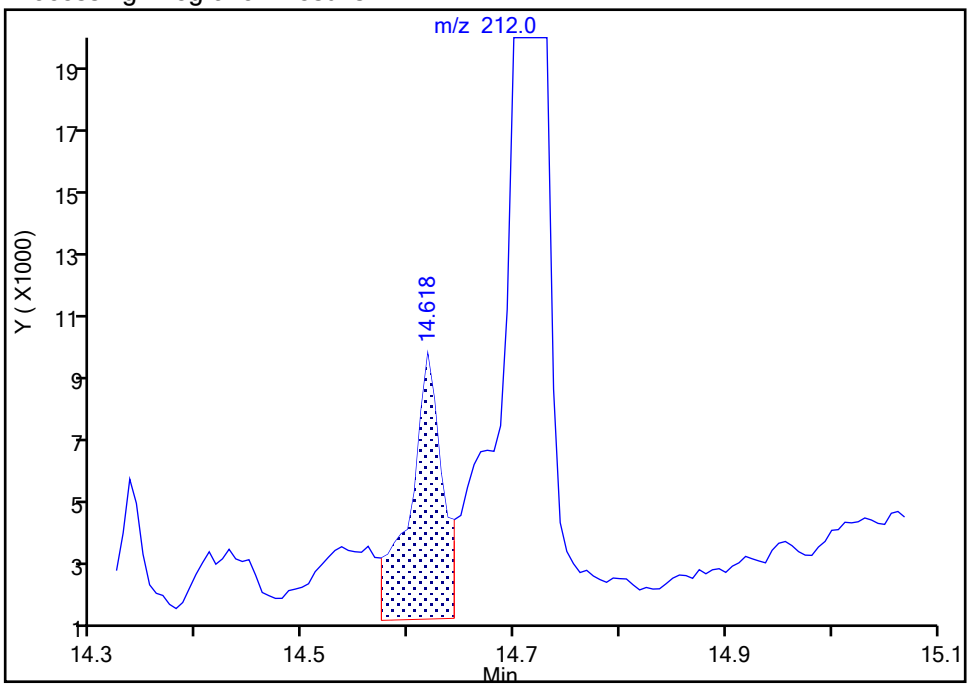
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Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

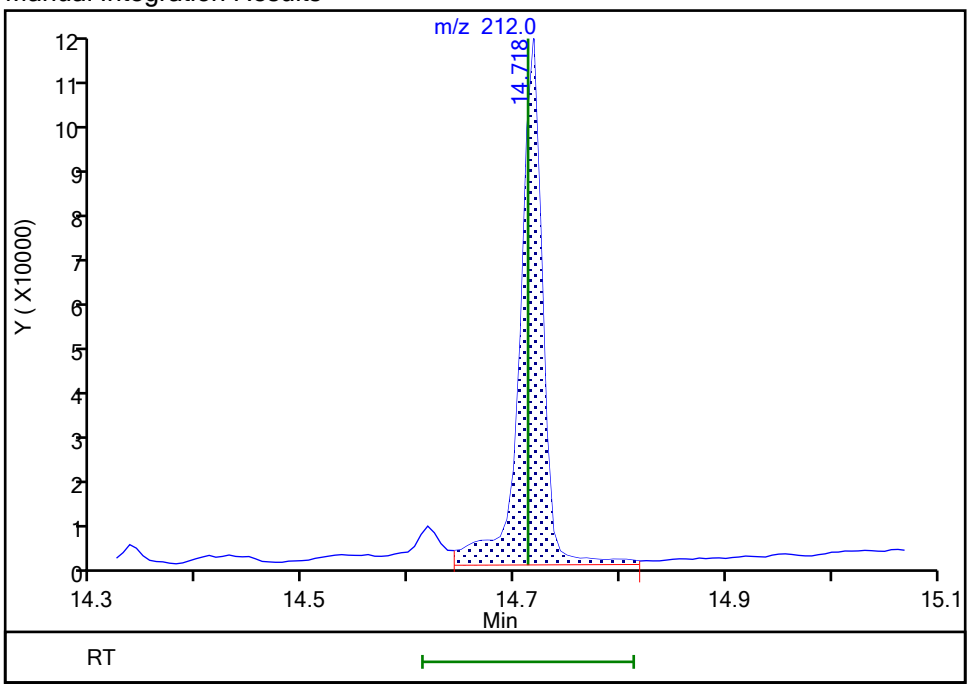
Processing Integration Results

RT: 14.62
Area: 17277
Amount: 0.022645
Amount Units: ug/ml



Manual Integration Results

RT: 14.72
Area: 166747
Amount: 0.218557
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:38:02
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

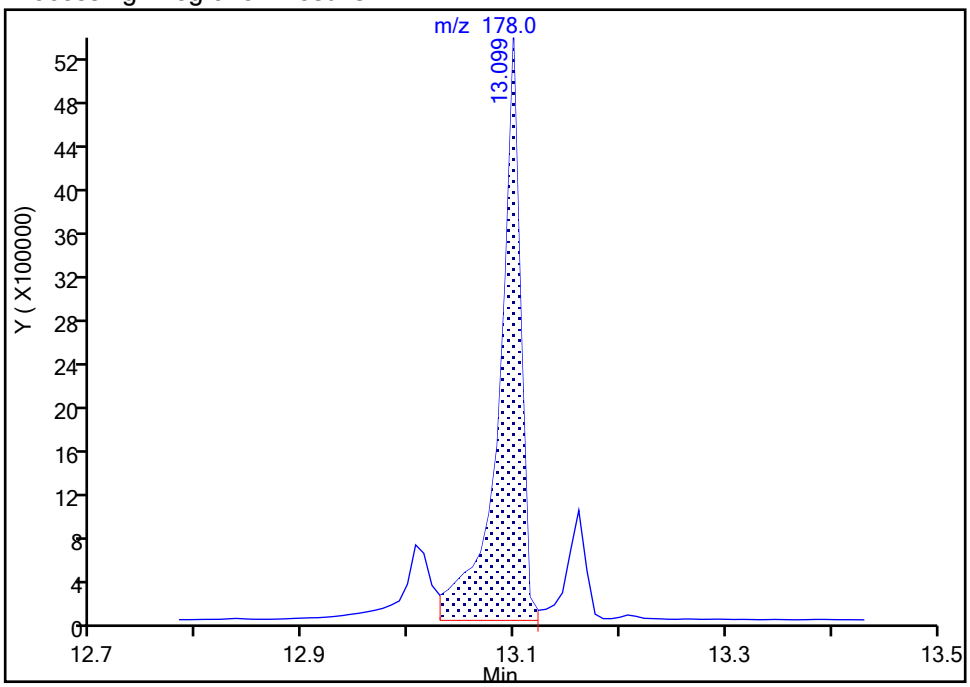
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Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

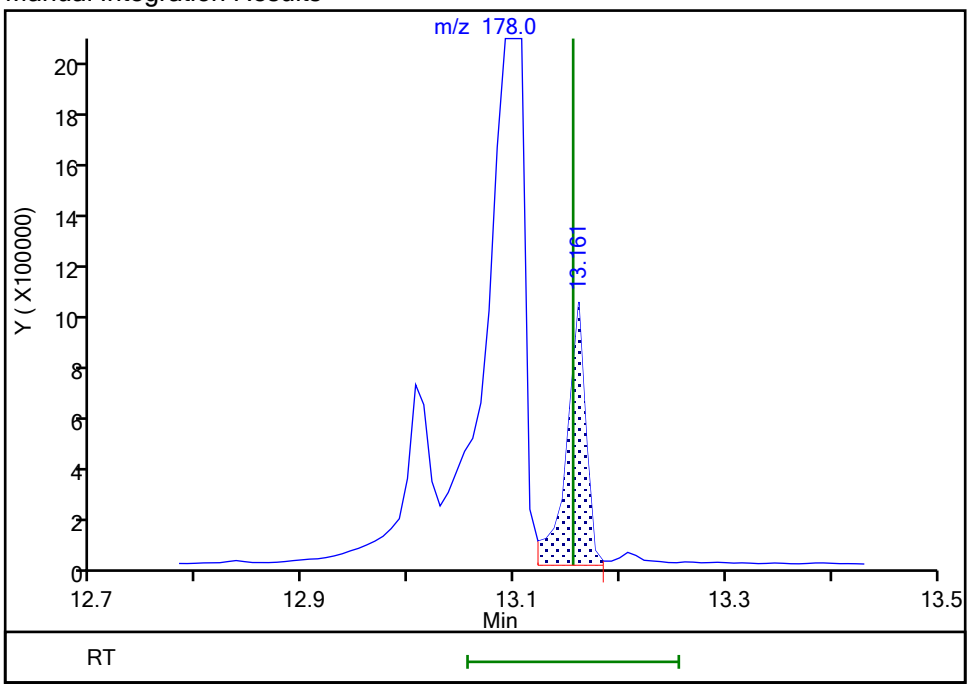
Processing Integration Results

RT: 13.10
Area: 7424368
Amount: 8.603095
Amount Units: ug/ml



Manual Integration Results

RT: 13.16
Area: 1250101
Amount: 1.448573
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:38:21

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

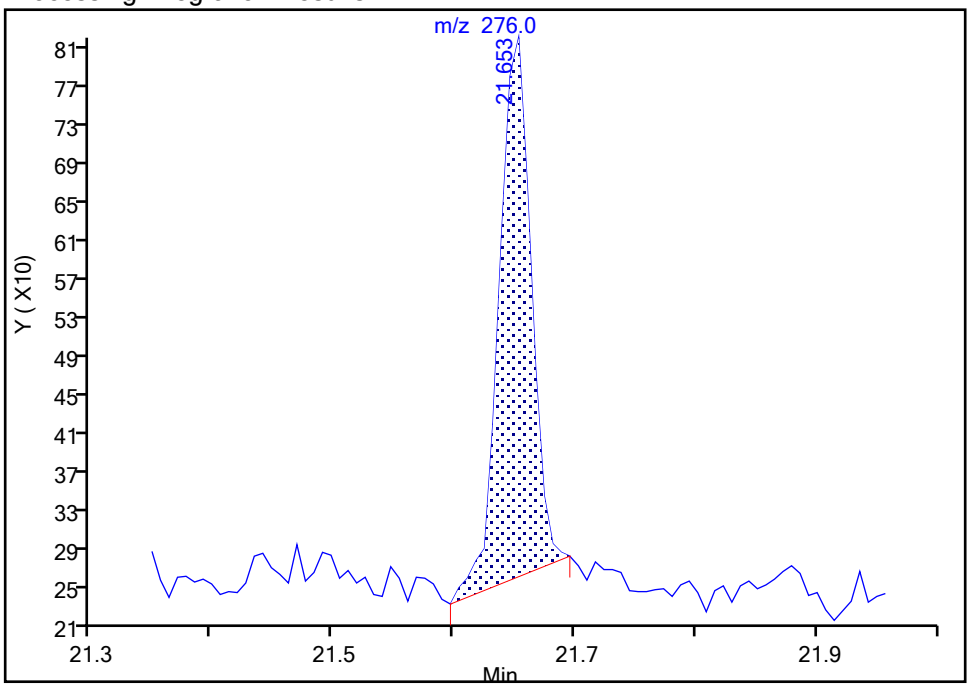
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Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

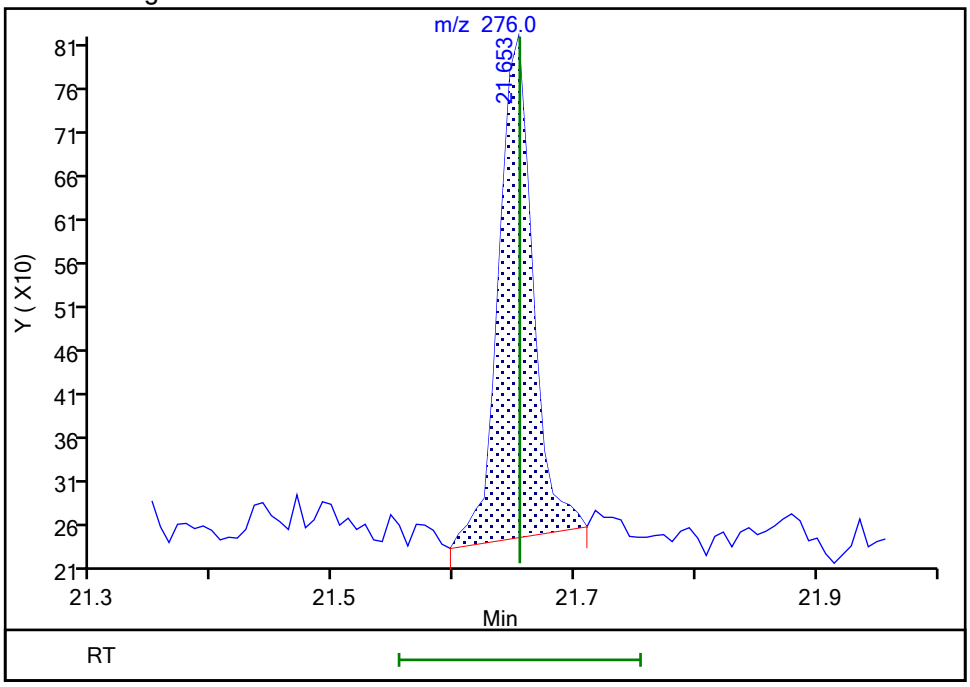
Processing Integration Results

RT: 21.65
Area: 1039
Amount: 0.001503
Amount Units: ug/ml



Manual Integration Results

RT: 21.65
Area: 1136
Amount: 0.001643
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:38:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

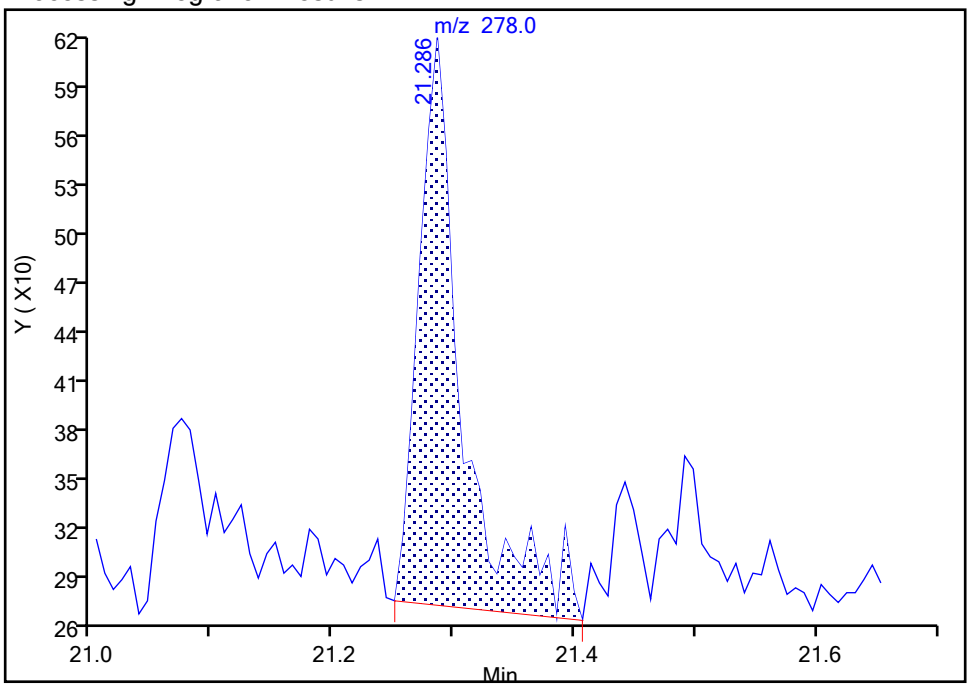
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Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

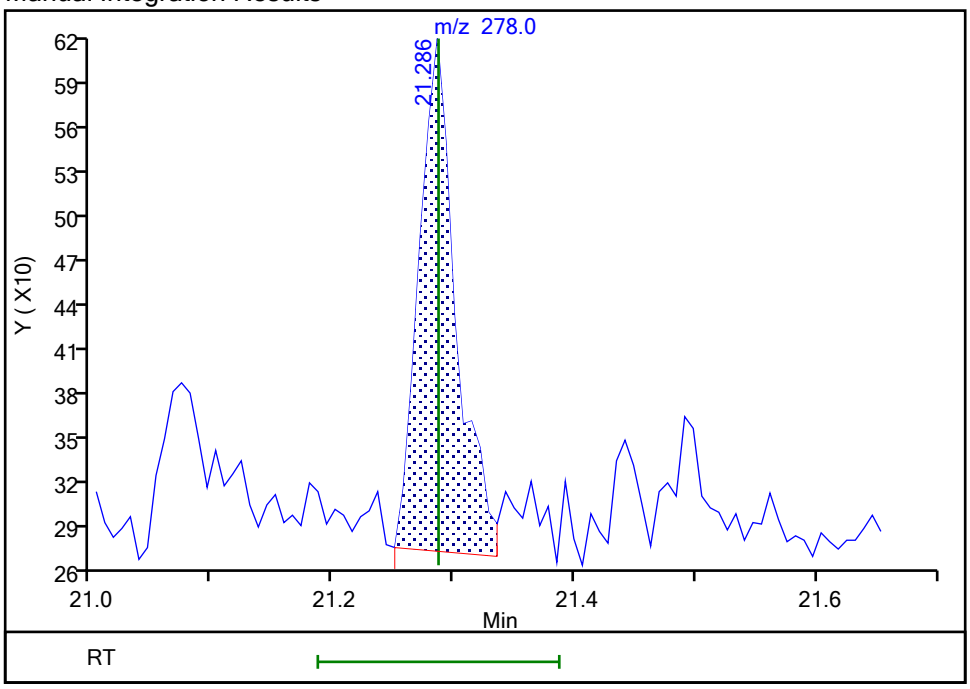
Processing Integration Results

RT: 21.29
Area: 870
Amount: 0.001474
Amount Units: ug/ml



Manual Integration Results

RT: 21.29
Area: 738
Amount: 0.001250
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:38:31

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

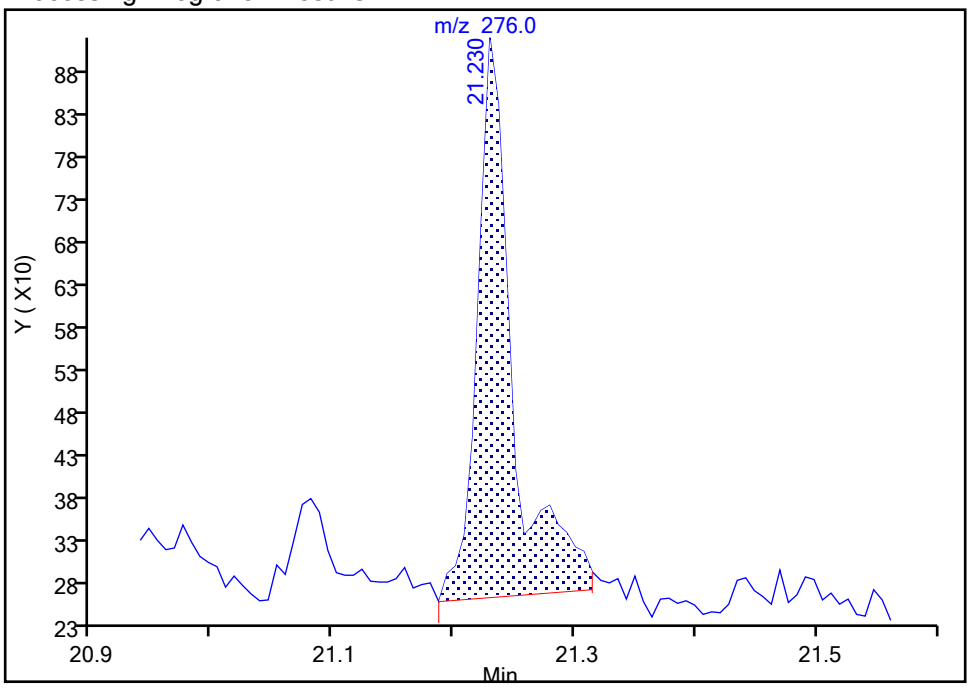
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Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

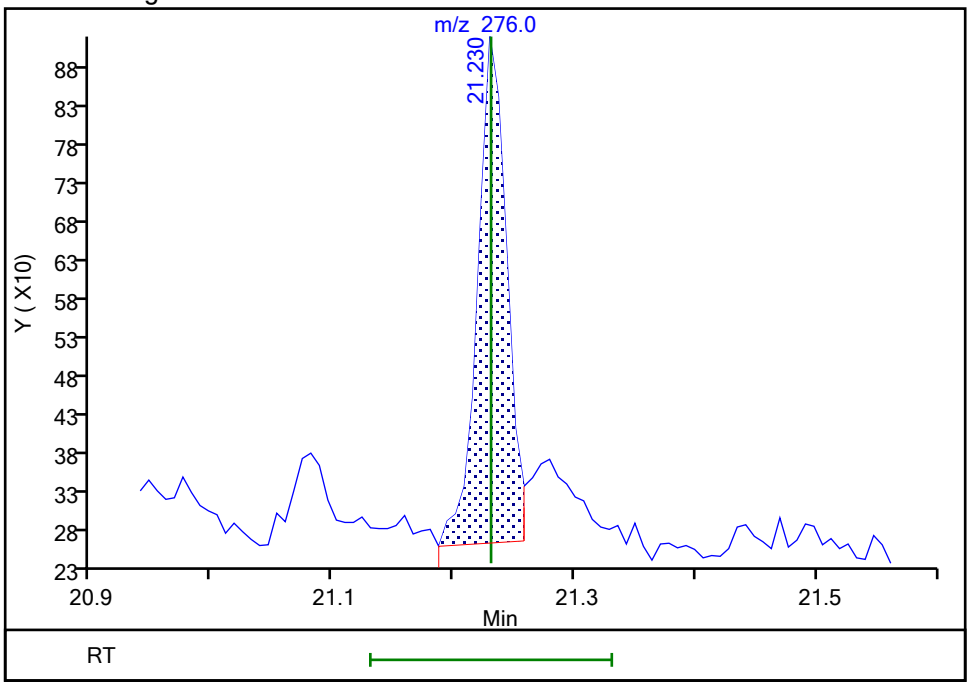
Processing Integration Results

RT: 21.23
Area: 1334
Amount: 0.002285
Amount Units: ug/ml



Manual Integration Results

RT: 21.23
Area: 1093
Amount: 0.001872
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:38:28
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

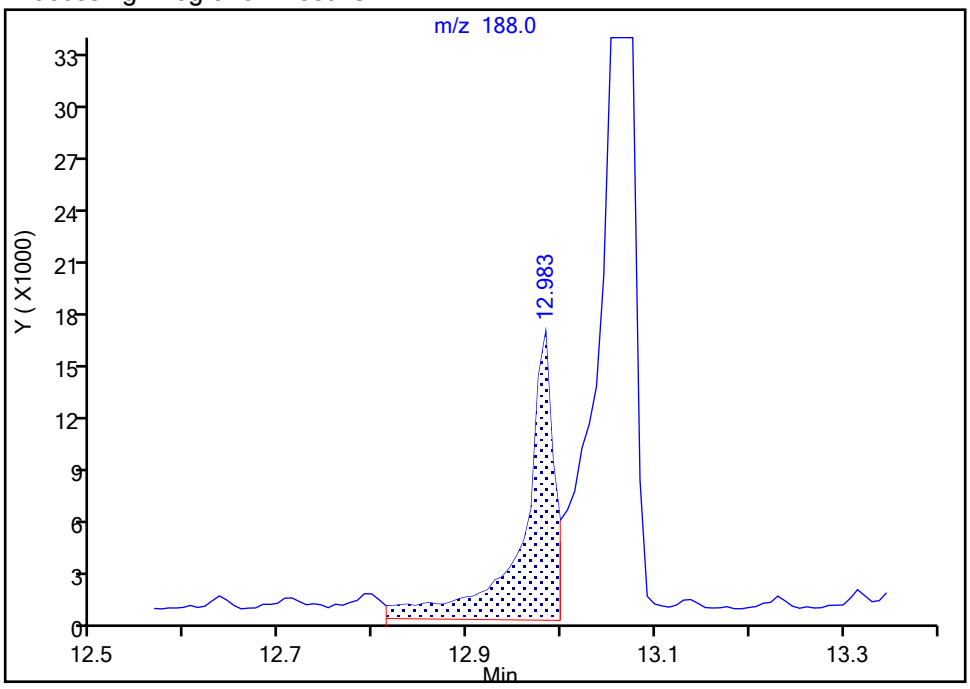
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Injection Date:	11-Oct-2021 20:36:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-18-A	Lab Sample ID:	410-57303-18		
Client ID:	MW-13S-20210930				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

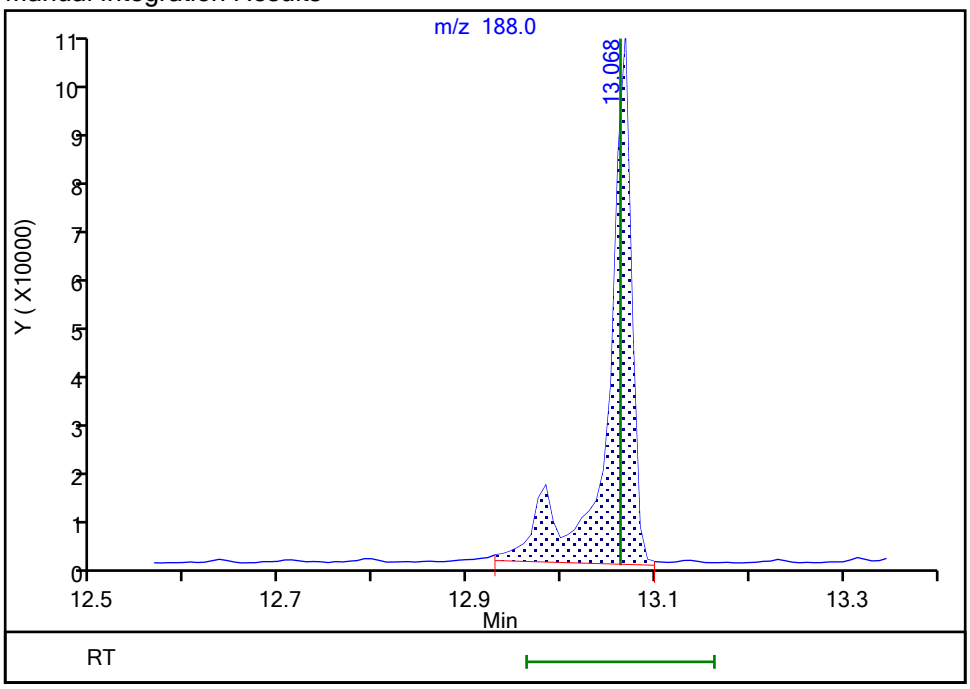
Processing Integration Results

RT: 12.98
Area: 36595
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 13.07
Area: 187298
Amount: 0.250000
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:37:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-13S-20210930 DL Lab Sample ID: 410-57303-18 DL

Matrix: Ground Water Lab File ID: NJ0806.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 09:14

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 242.5(mL) Date Analyzed: 10/12/2021 08:42

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.: 181545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31		0.52	0.10
91-20-3	Naphthalene	41		0.72	0.31
85-01-8	Phenanthrene	36		0.72	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		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\20211012-41293.b\NJ0806.D
Lims ID: 410-57303-B-18-A DL
Client ID: MW-13S-20210930
Sample Type: Client
Inject. Date: 12-Oct-2021 08:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-57303-B-18-A
Misc. Info.: 410-0041293-007
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 07:26:59 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 07:07:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	85	76717	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	245537	0.2500	
6 Naphthalene	128	8.304	8.316	0.000	99	1082652	1.00	
$ 9 1-Methylnaphthalene-d10	152	9.544	9.545	-0.003	99	10918	0.0217	
12 Acenaphthylene	152	10.897	10.897	-0.002	100	33082	0.0331	
* 13 Acenaphthene-d10	164	11.137	11.139	-0.002	93	115155	0.2500	
14 Acenaphthene	154	11.187	11.189	-0.003	96	403730	0.7408	
17 Fluorene	166	11.910	11.912	0.006	98	192907	0.2744	
* 20 Phenanthrene-d10	188	13.060	13.063	-0.003	100	188056	0.2500	
21 Phenanthrene	178	13.091	13.101	-0.003	100	842020	0.8799	
22 Anthracene	178	13.153	13.161	-0.002	99	165618	0.1911	
$ 24 Fluoranthene-d10 (Surr)	212	14.712	14.750	-0.001	100	17467	0.0228	
25 Fluoranthene	202	14.737	14.743	-0.007	99	140239	0.1380	
26 Pyrene	202	15.081	15.082	-0.002	98	200486	0.2095	
28 Benzo[a]anthracene	228	17.104	17.166	-0.001	70	24488	0.0303	
* 29 Chrysene-d12	240	17.119	17.120	-0.001	82	133391	0.2500	
30 Chrysene	228	17.157	17.165	-0.009	100	16577	0.0212	
33 Benzo[b]fluoranthene	252	18.967	18.975	-0.009	100	1777	0.002445	M
34 Benzo[k]fluoranthene	252	19.013	19.021	-0.009	98	1083	0.001427	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.458	19.466	-0.009	99	9049	0.0204	
37 Benzo[a]pyrene	252	19.496	19.496	-0.009	99	1099	0.001653	M
* 38 Perylene-d12	264	19.589	19.597	-0.008	97	120256	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

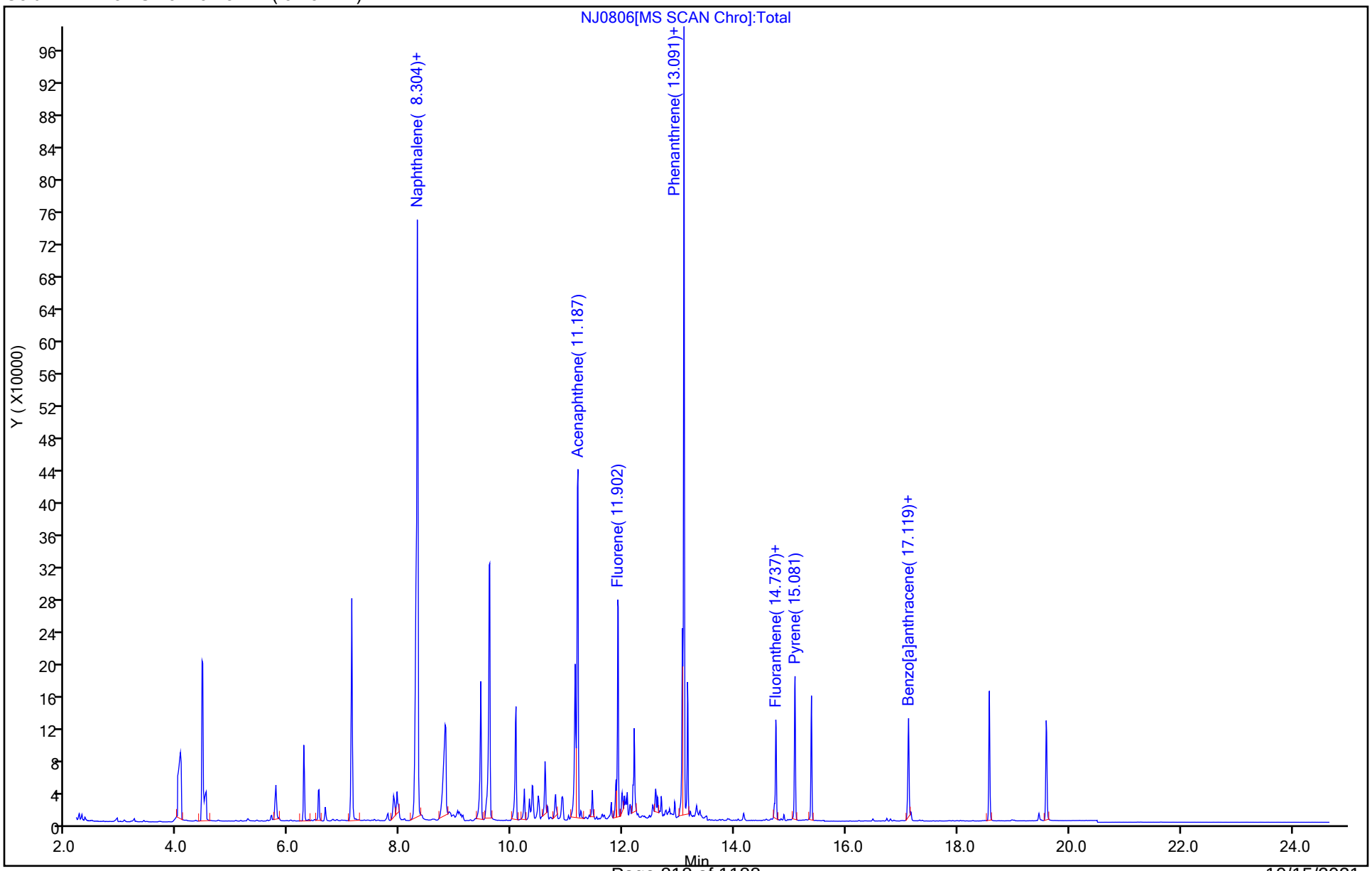
Report Date: 13-Oct-2021 07:27:27 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0806.D

Injection Date:	12-Oct-2021 08:42:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-18-A DL	Lab Sample ID:	410-57303-18	Worklist Smp#:	7
Client ID:	MW-13S-20210930				
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)



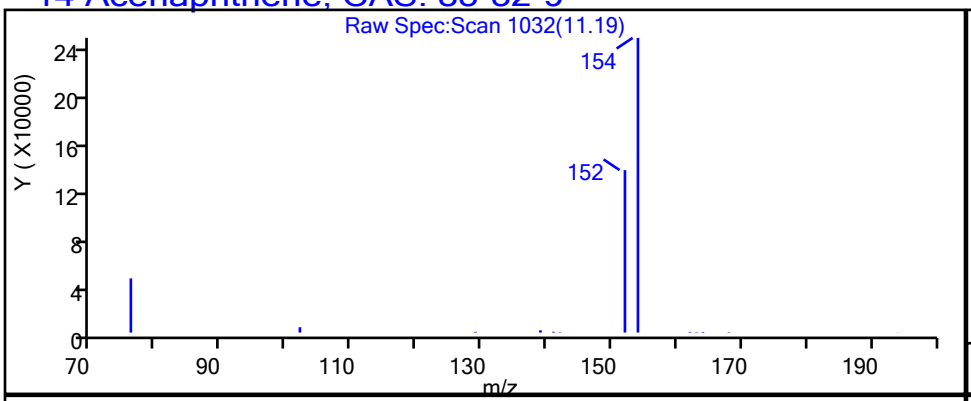
Report Date: 13-Oct-2021 07:27:27 Chrom Revision: 2.3 22-Sep-2021 15:38:46

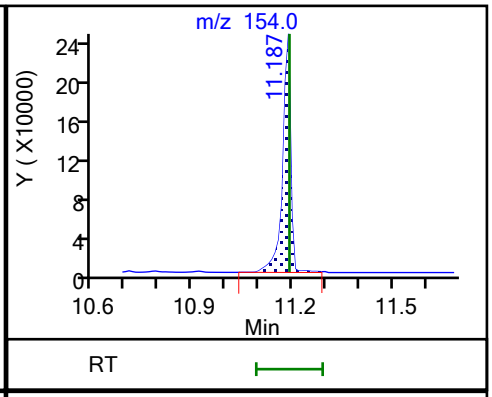
Eurofins Lancaster Laboratories Env, LLC

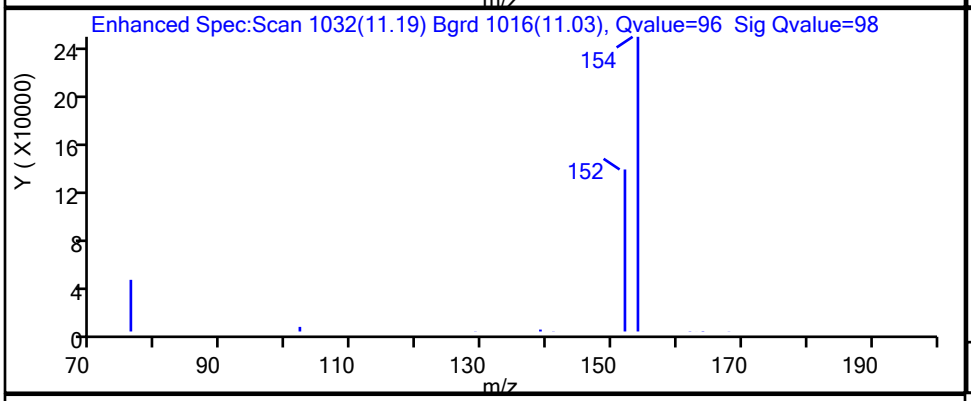
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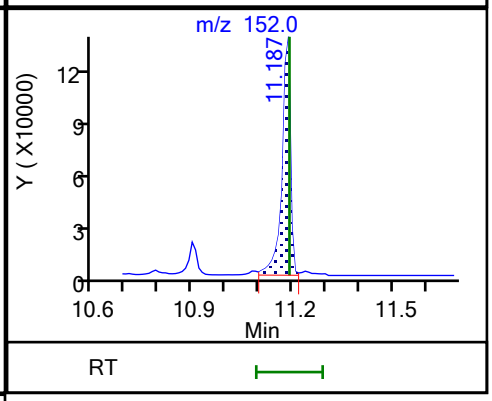
Injection Date:	12-Oct-2021 08:42:30	Instrument ID:	HP23263
Lims ID:	410-57303-B-18-A DL	Lab Sample ID:	410-57303-18
Client ID:	MW-13S-20210930		
Operator ID:	jmg00346	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

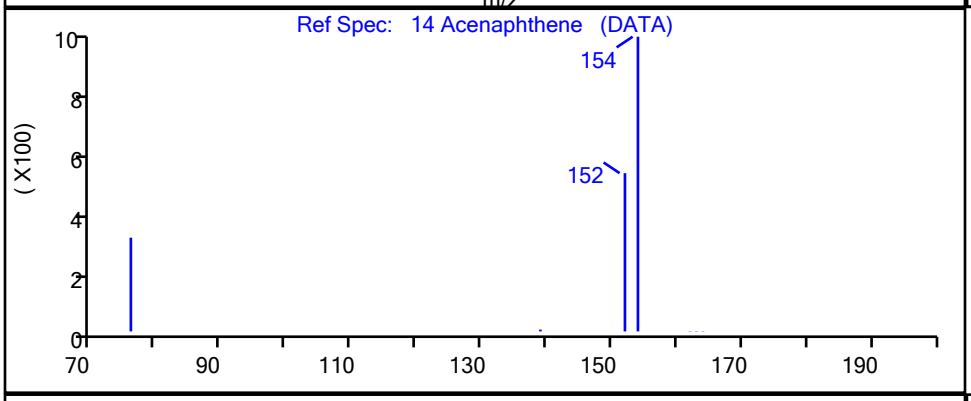
14 Acenaphthene, CAS: 83-32-9

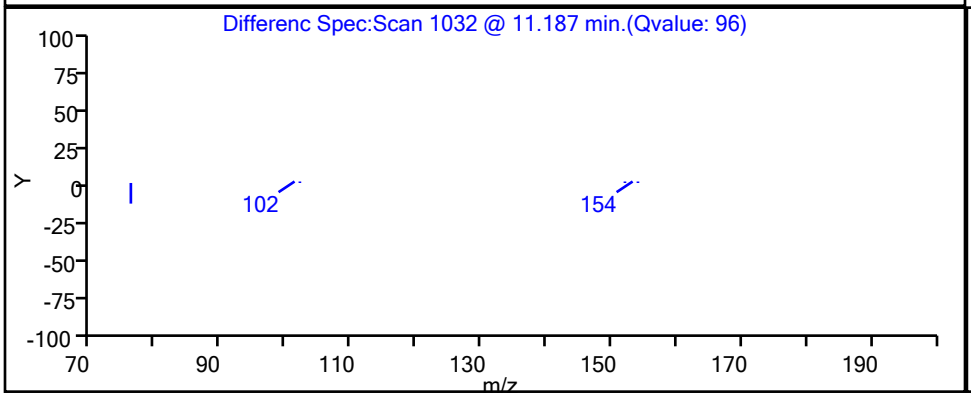


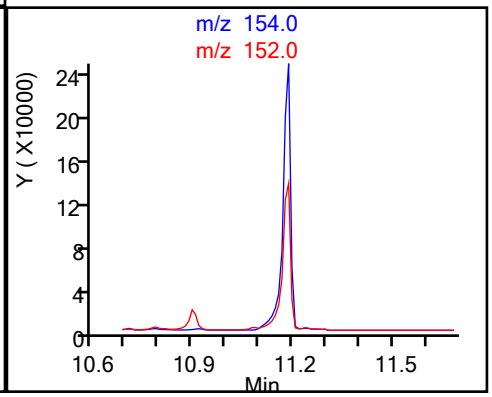












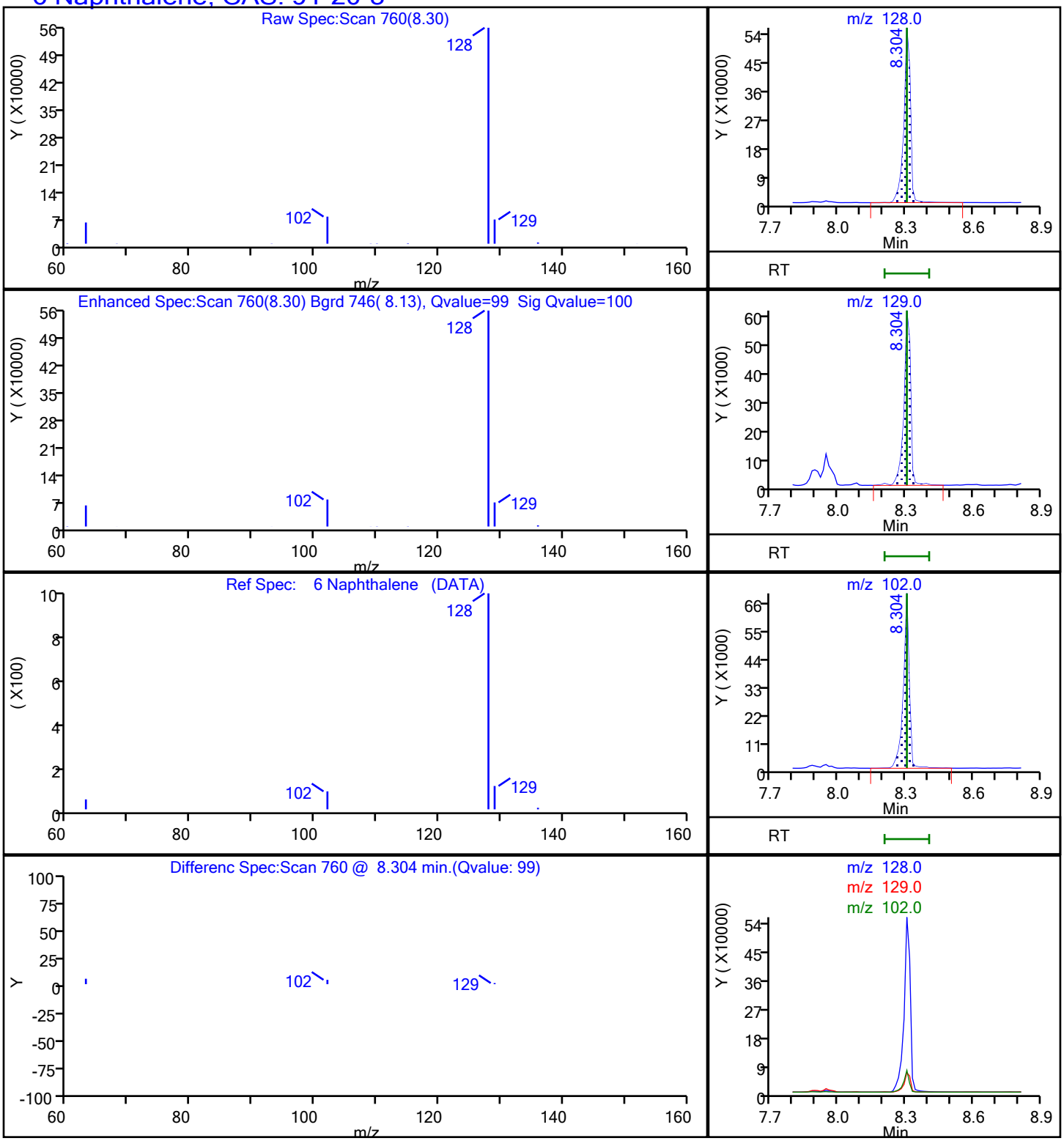
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	12-Oct-2021 08:42:30	Instrument ID:	HP23263
Lims ID:	410-57303-B-18-A DL	Lab Sample ID:	410-57303-18
Client ID:	MW-13S-20210930		
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

6 Naphthalene, CAS: 91-20-3

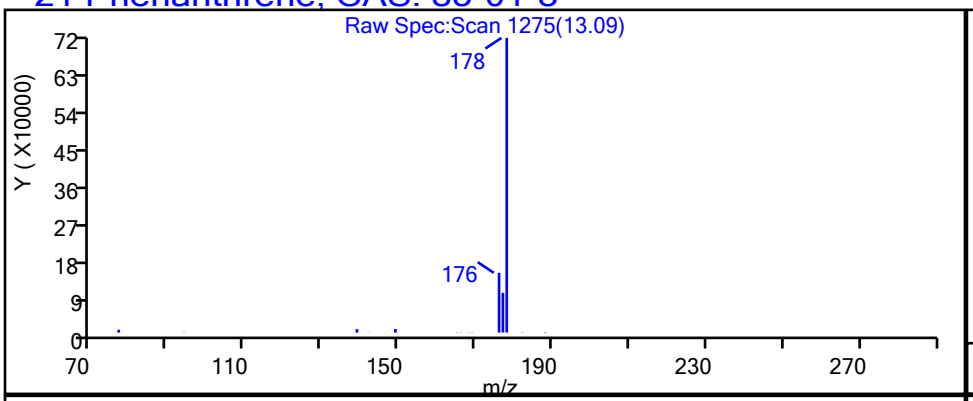


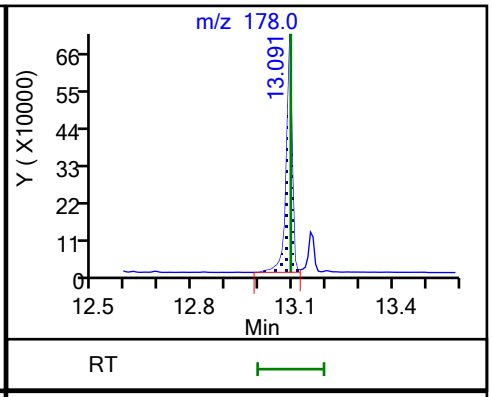
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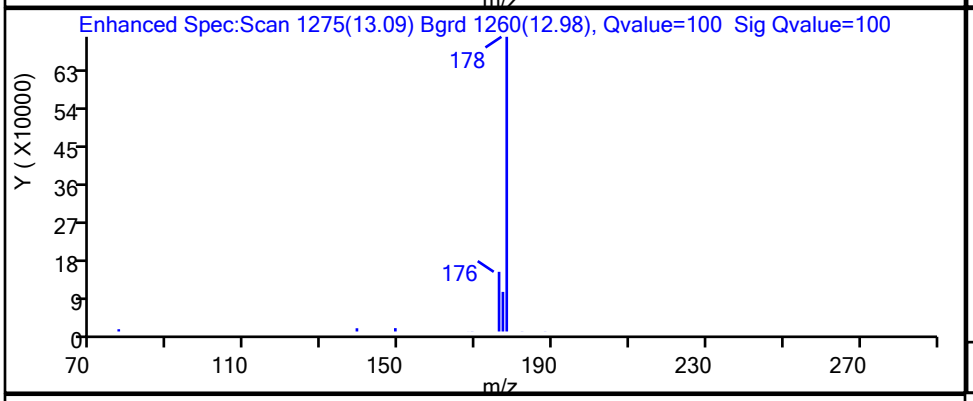
Eurofins Lancaster Laboratories Env, LLC

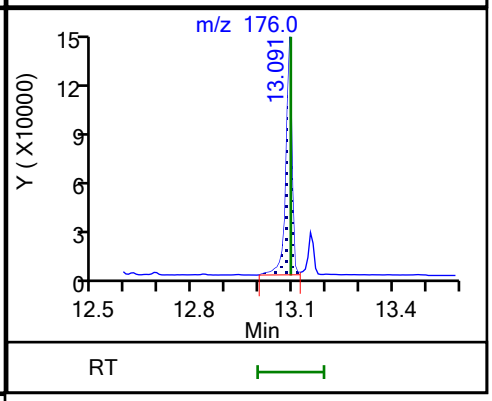
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Lims ID:	410-57303-B-18-A DL	Lab Sample ID:	410-57303-18
Client ID:	MW-13S-20210930		
Operator ID:	jmg00346	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

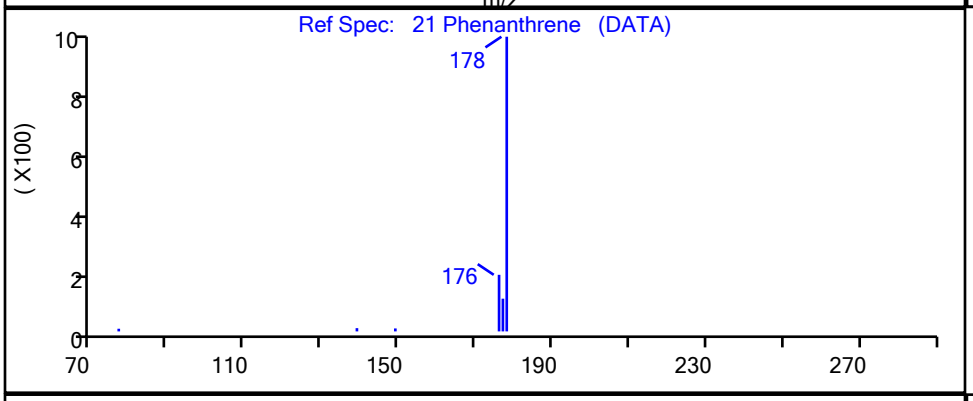
21 Phenanthrene, CAS: 85-01-8

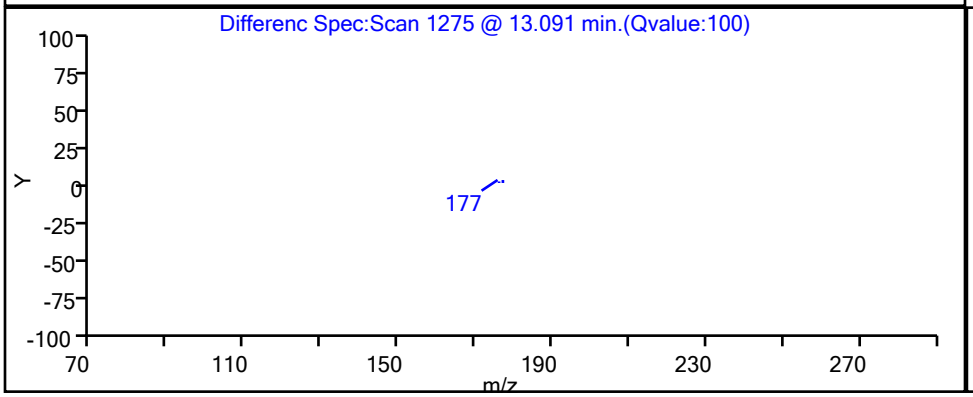


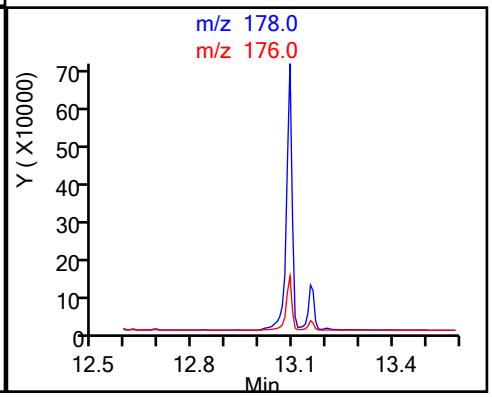












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-13D-20210930 Lab Sample ID: 410-57303-19

Matrix: Ground Water Lab File ID: NJ0784.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 09:55

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 239.1(mL) Date Analyzed: 10/11/2021 21:07

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.: 181246 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	0.032	J	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)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	86		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\20211011-41227.b\NJ0784.D
Lims ID: 410-57303-B-19-A
Client ID: MW-13D-20210930
Sample Type: Client
Inject. Date: 11-Oct-2021 21:07:30 ALS Bottle#: 25 Worklist Smp#: 44
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-19-A
Misc. Info.: 410-0041227-044
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 22:40:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: saadehw Date: 11-Oct-2021 22:39:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.280	6.267	0.013	96	82895	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	258454	0.2500	
6 Naphthalene	128	8.317	8.317	0.013	99	8842	0.007738	M
$ 9 1-Methylnaphthalene-d10	152	9.545	9.561	-0.002	100	113139	0.2140	
* 13 Acenaphthene-d10	164	11.137	11.140	-0.003	91	121993	0.2500	
* 20 Phenanthrene-d10	188	13.060	13.063	-0.003	100	201225	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.712	14.718	-0.001	99	178258	0.2175	
25 Fluoranthene	202	14.743	14.743	-0.001	57	2177	0.002002	M
26 Pyrene	202	15.082	15.082	-0.001	91	3544	0.003364	M
* 29 Chrysene-d12	240	17.119	17.120	-0.001	81	146835	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.458	19.467	-0.009	98	106847	0.2129	
* 38 Perylene-d12	264	19.596	19.597	-0.001	97	135931	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

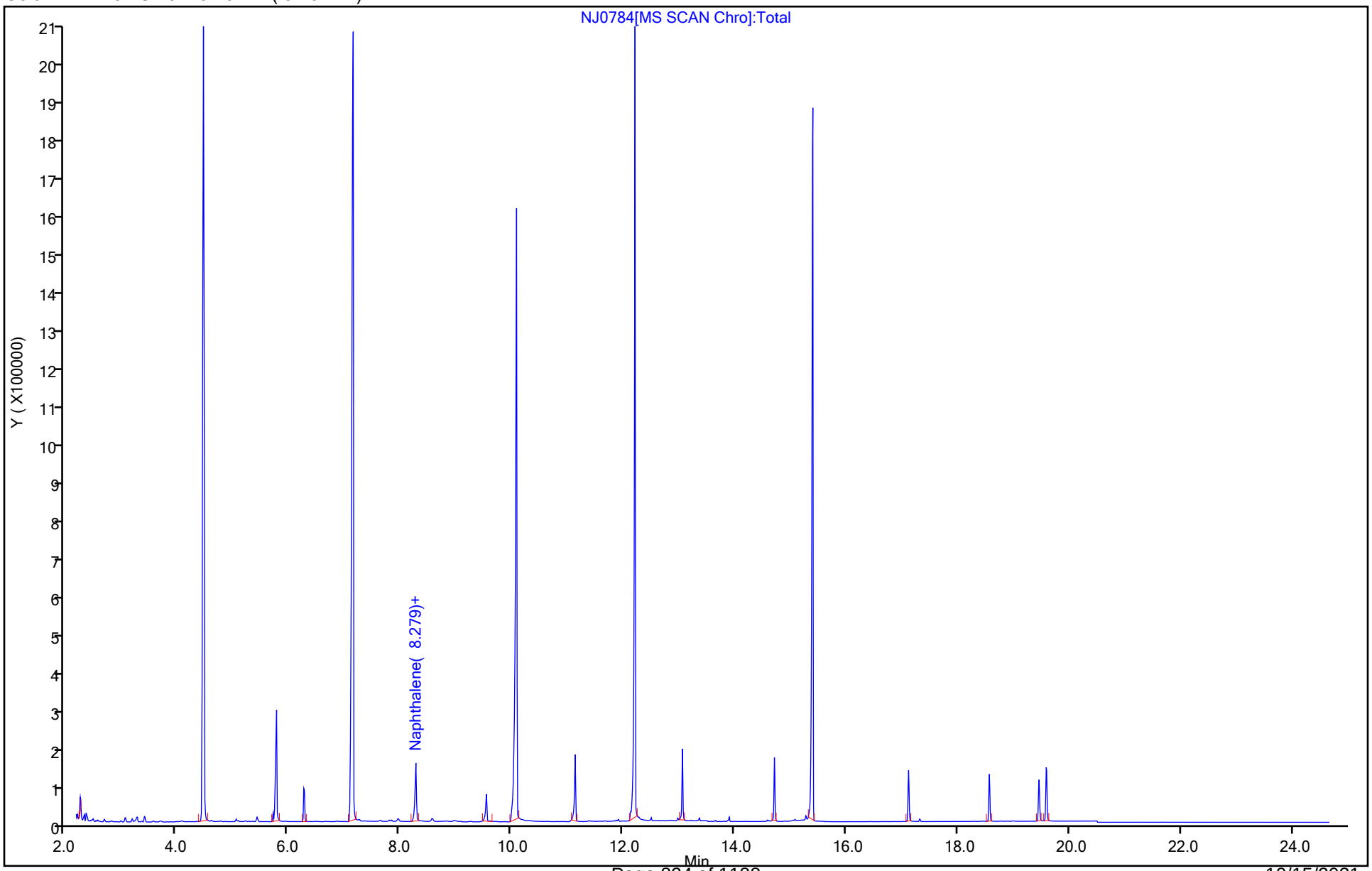
Report Date: 11-Oct-2021 22:40:18 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0784.D

Injection Date:	11-Oct-2021 21:07:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-19-A	Lab Sample ID:	410-57303-19	Worklist Smp#:	44
Client ID:	MW-13D-20210930				
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)



Report Date: 11-Oct-2021 22:40:18 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0784.D

Injection Date: 11-Oct-2021 21:07:30 Instrument ID: HP23263

Lims ID: 410-57303-B-19-A Lab Sample ID: 410-57303-19

Client ID: MW-13D-20210930

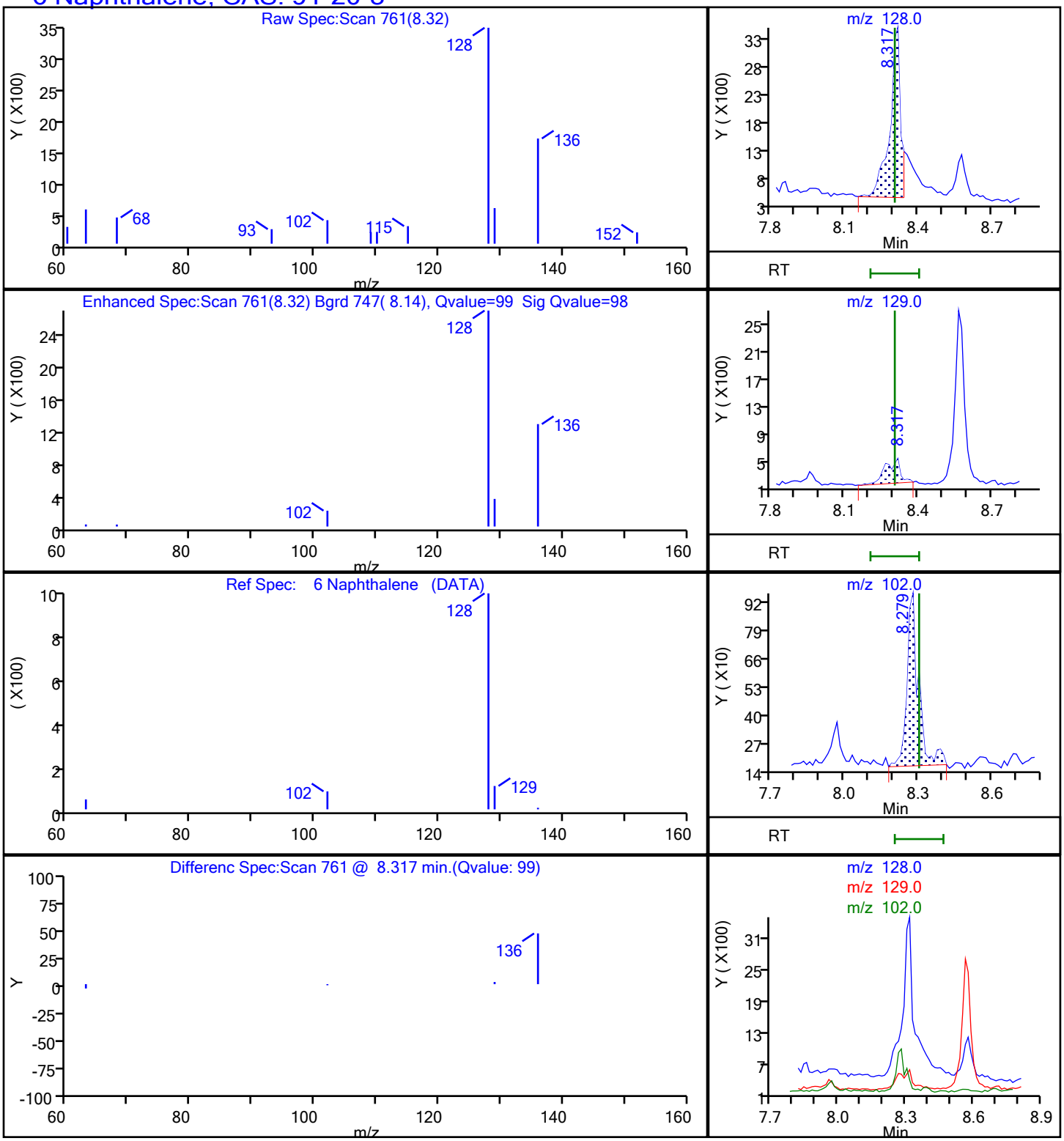
Operator ID: jmg00346 ALS Bottle#: 25 Worklist Smp#: 44

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



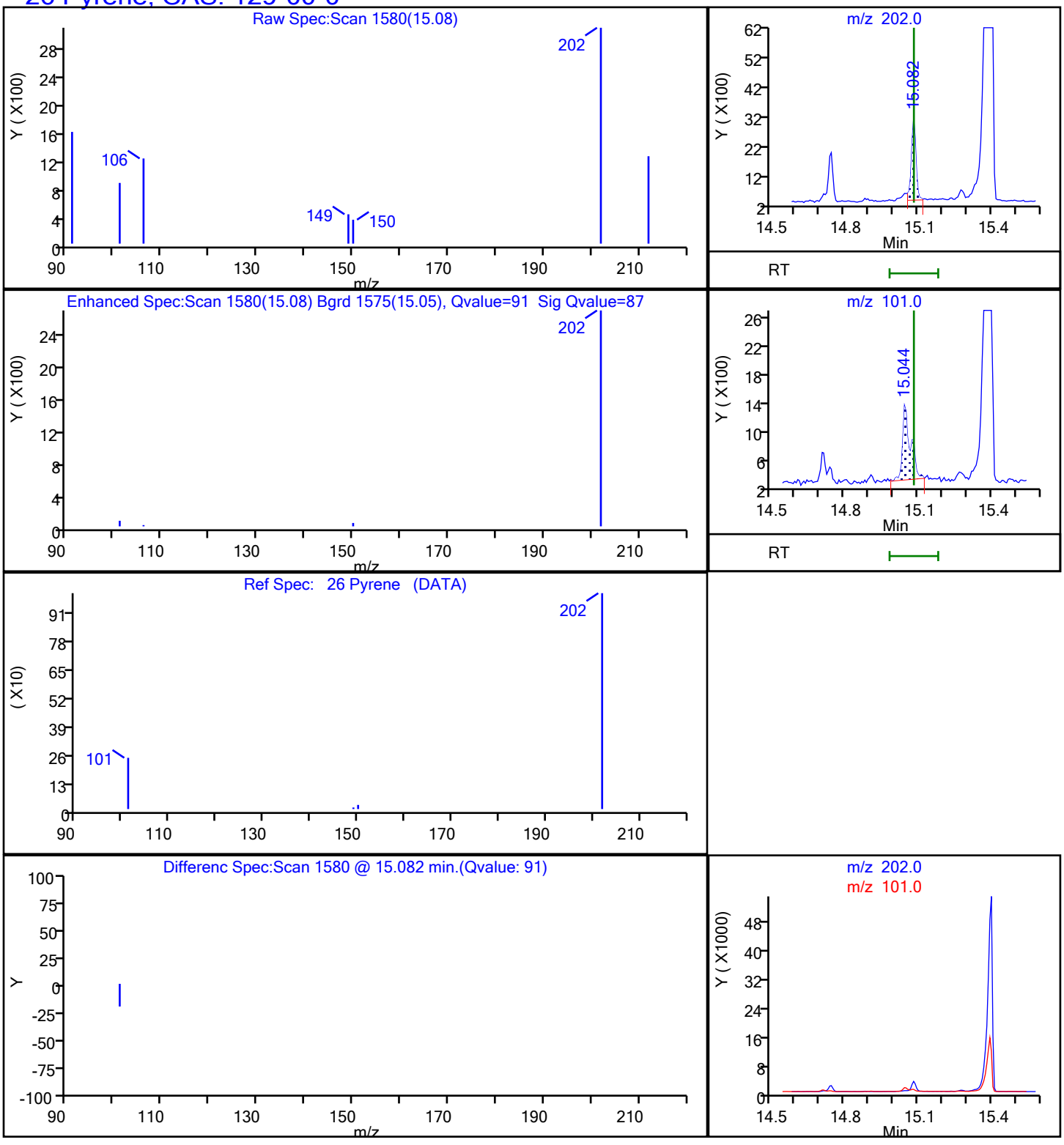
Report Date: 11-Oct-2021 22:40:18 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0784.D

Injection Date:	11-Oct-2021 21:07:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-19-A	Lab Sample ID:	410-57303-19		
Client ID:	MW-13D-20210930				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	44
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

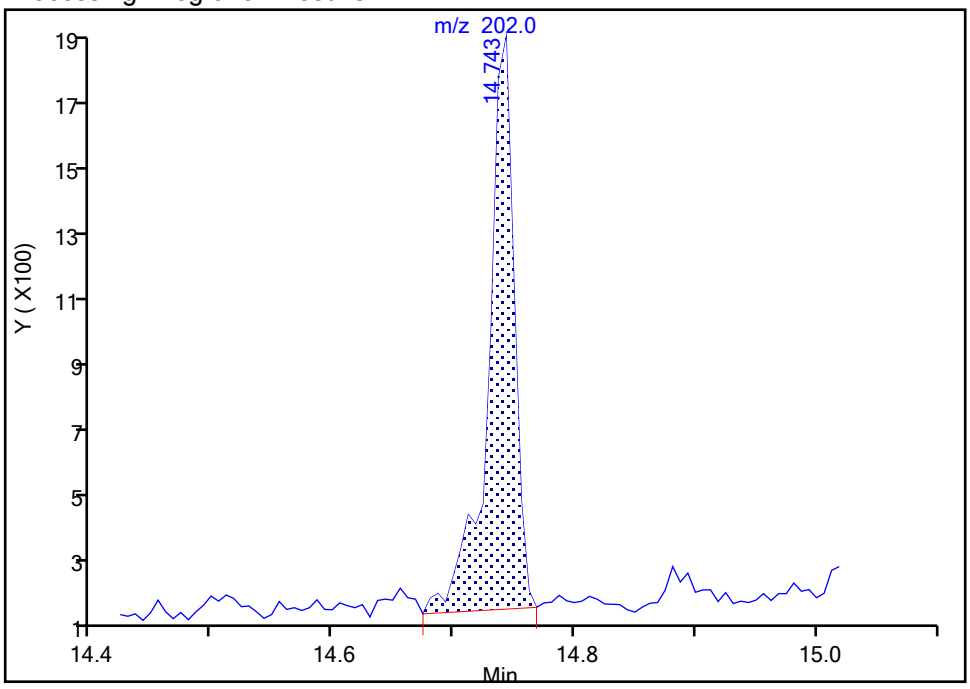
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Injection Date:	11-Oct-2021 21:07:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-19-A	Lab Sample ID:	410-57303-19		
Client ID:	MW-13D-20210930				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

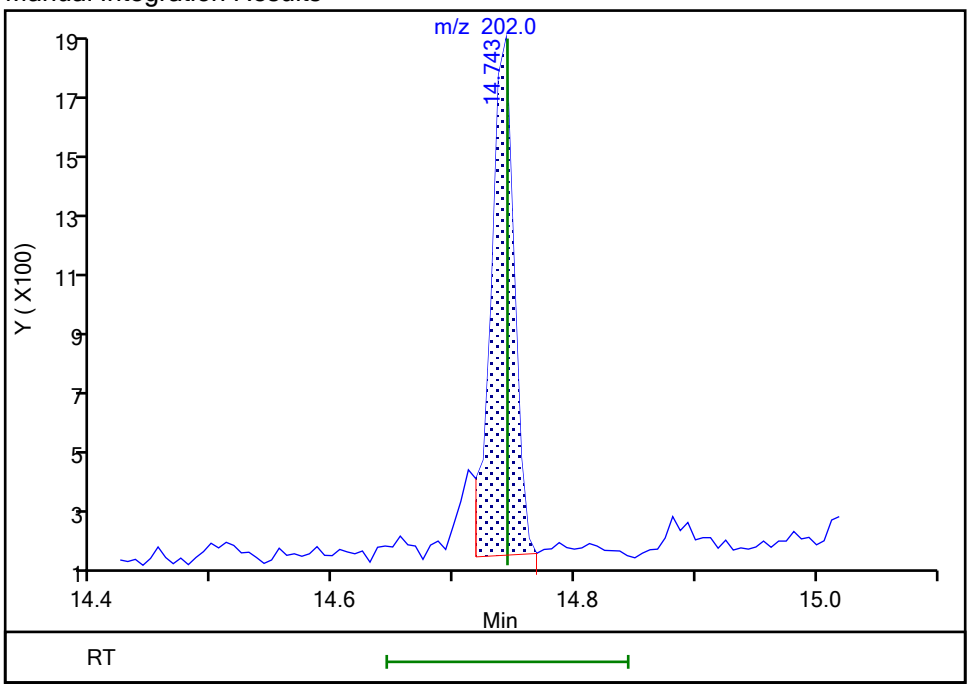
Processing Integration Results

RT: 14.74
Area: 2484
Amount: 0.002284
Amount Units: ug/ml



Manual Integration Results

RT: 14.74
Area: 2177
Amount: 0.002002
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:39:13

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

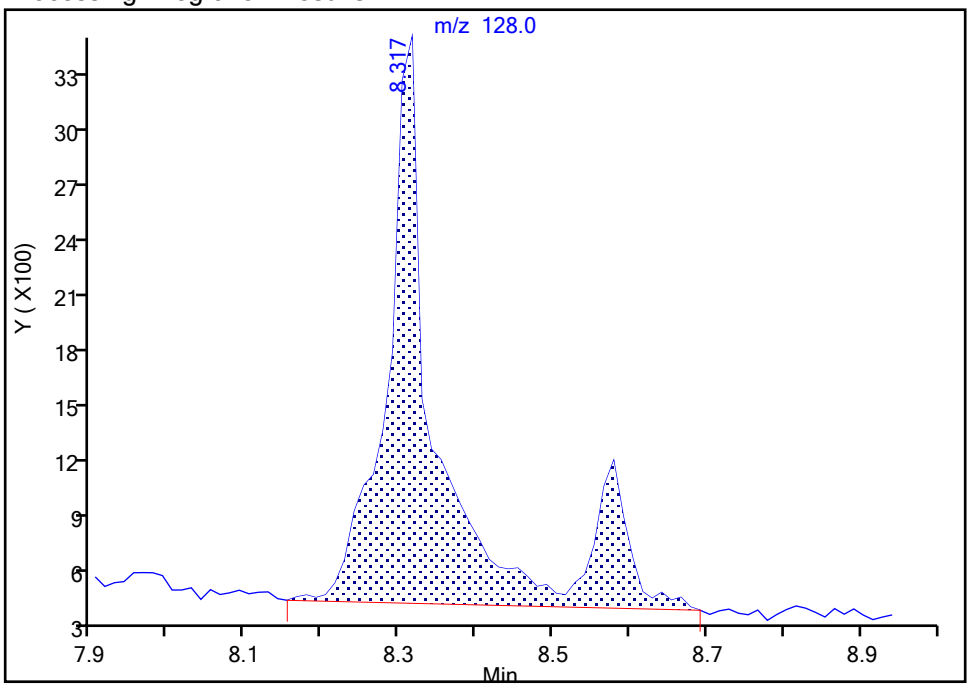
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Lims ID:	410-57303-B-19-A	Lab Sample ID:	410-57303-19
Client ID:	MW-13D-20210930		
Operator ID:	jmg00346	ALS Bottle#:	25 Worklist Smp#: 44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

6 Naphthalene, CAS: 91-20-3

Signal: 1

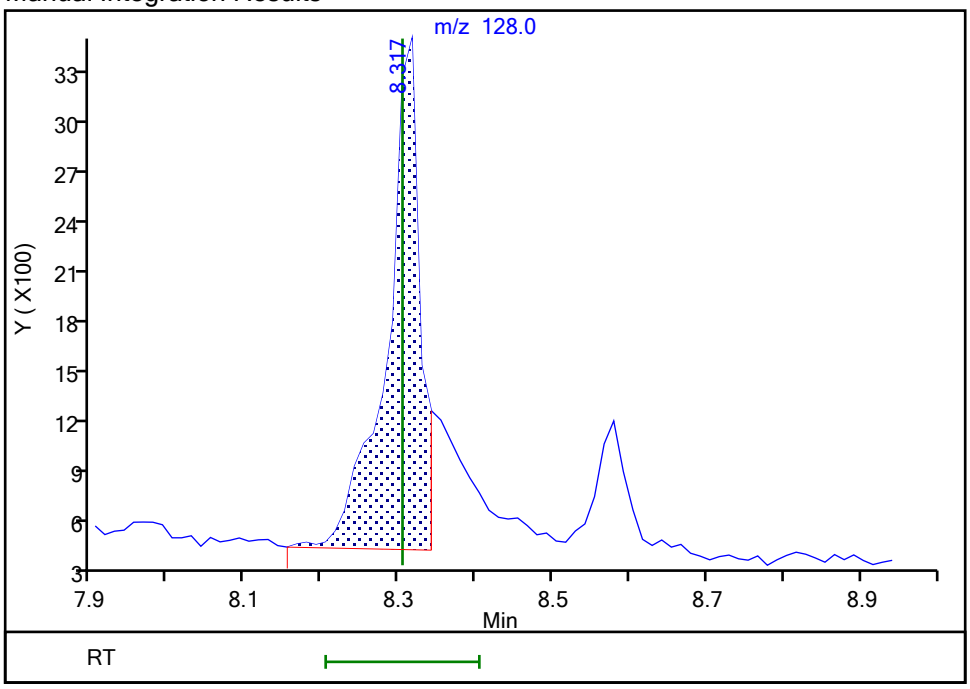
Processing Integration Results

RT: 8.32
Area: 14626
Amount: 0.012800
Amount Units: ug/ml



Manual Integration Results

RT: 8.32
Area: 8842
Amount: 0.007738
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:39:04
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

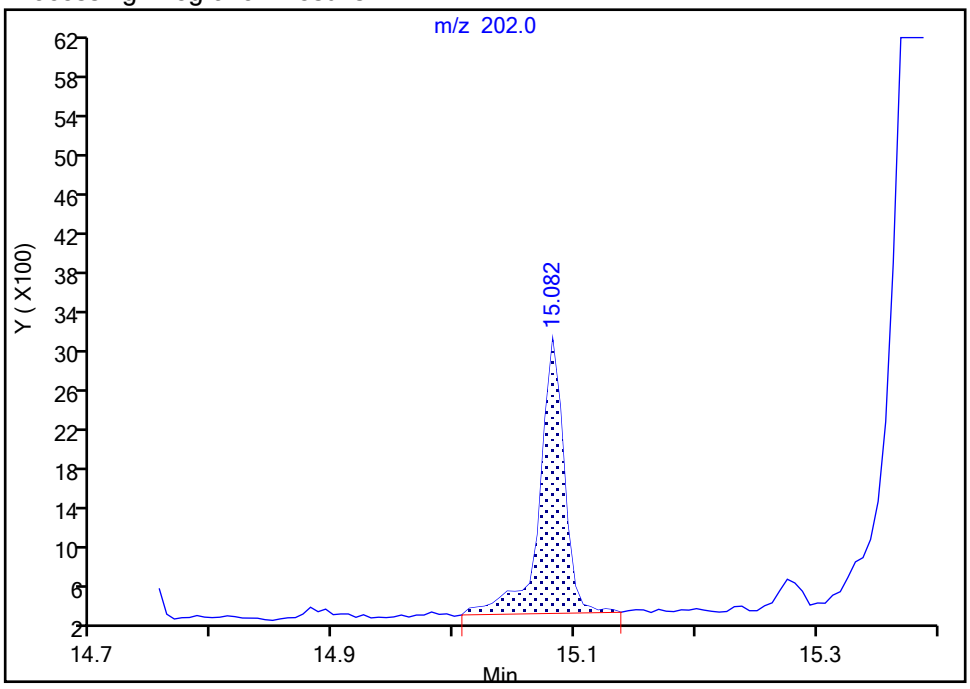
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Injection Date:	11-Oct-2021 21:07:30	Instrument ID:	HP23263
Lims ID:	410-57303-B-19-A	Lab Sample ID:	410-57303-19
Client ID:	MW-13D-20210930		
Operator ID:	jmg00346	ALS Bottle#:	25 Worklist Smp#: 44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	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

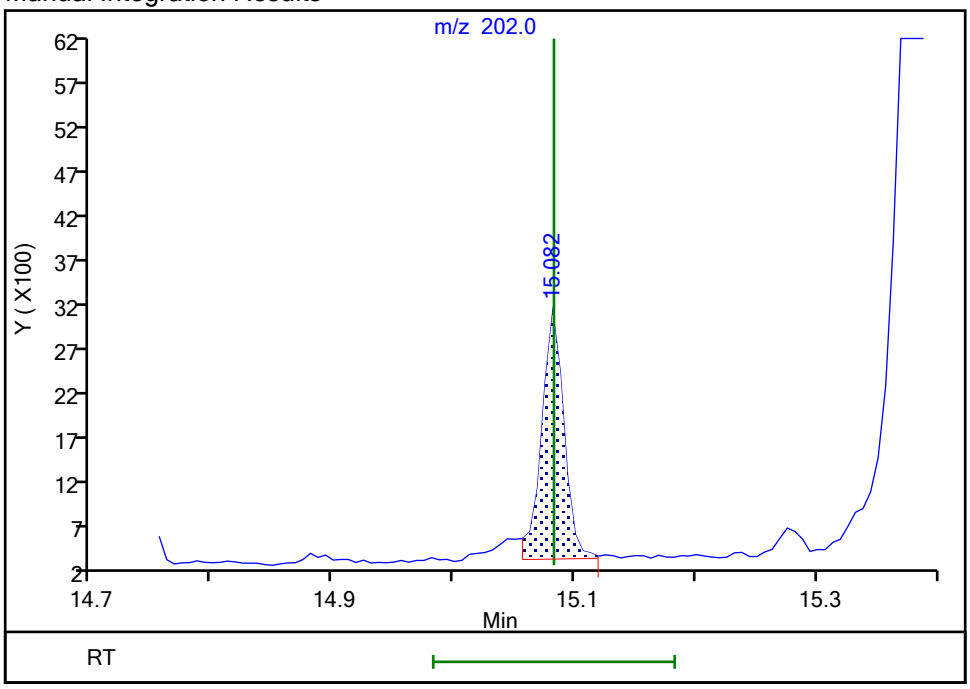
Processing Integration Results

RT: 15.08
Area: 3974
Amount: 0.003773
Amount Units: ug/ml



Manual Integration Results

RT: 15.08
Area: 3544
Amount: 0.003364
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:39:17

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: DUP-20210930 Lab Sample ID: 410-57303-20

Matrix: Ground Water Lab File ID: NJ0807.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 00:00

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 239.7(mL) Date Analyzed: 10/12/2021 09:13

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.: 181545 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	49		0.52	0.10
208-96-8	Acenaphthylene	6.3		0.52	0.10
120-12-7	Anthracene	2.4		0.52	0.10
56-55-3	Benzo[a]anthracene	1.6		0.52	0.10
50-32-8	Benzo[a]pyrene	ND		0.52	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.52	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.52	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.52	0.10
218-01-9	Chrysene	0.94		0.52	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.52	0.21
206-44-0	Fluoranthene	18		0.52	0.10
86-73-7	Fluorene	15		0.52	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.52	0.21
85-01-8	Phenanthrene	19		0.73	0.31
129-00-0	Pyrene	24		0.52	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)	83		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\20211012-41293.b\NJ0807.D
Lims ID: 410-57303-B-20-A
Client ID: DUP-20210930
Sample Type: Client
Inject. Date: 12-Oct-2021 09:13:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-57303-B-20-A
Misc. Info.: 410-0041293-008
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 07:26:59 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 07:08:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	88	74801	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	53	238614	0.2500	
6 Naphthalene	128	8.304	8.316	0.000	98	2873613	2.72	EM
$ 9 1-Methylnaphthalene-d10	152	9.545	9.545	-0.002	70	10183	0.0209	M
12 Acenaphthylene	152	10.897	10.897	-0.002	100	153674	0.1517	
* 13 Acenaphthene-d10	164	11.137	11.139	-0.002	92	116746	0.2500	
14 Acenaphthene	154	11.187	11.189	-0.003	96	654137	1.18	
17 Fluorene	166	11.887	11.912	-0.017	93	247798	0.3476	
* 20 Phenanthrene-d10	188	13.060	13.063	-0.003	100	176039	0.2500	
21 Phenanthrene	178	13.091	13.101	-0.003	100	413229	0.4613	
22 Anthracene	178	13.153	13.161	-0.002	98	45856	0.0565	M
$ 24 Fluoranthene-d10 (Surr)	212	14.712	14.750	-0.001	89	16039	0.0224	
25 Fluoranthene	202	14.737	14.743	-0.007	97	399654	0.4201	
26 Pyrene	202	15.082	15.082	-0.001	98	511923	0.5692	
28 Benzo[a]anthracene	228	17.104	17.166	-0.001	80	28869	0.0380	
* 29 Chrysene-d12	240	17.119	17.120	-0.001	82	125375	0.2500	
30 Chrysene	228	17.165	17.165	-0.001	100	16519	0.0225	
34 Benzo[k]fluoranthene	252	19.014	19.021	-0.008	96	584	0.000761	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.458	19.466	-0.009	98	9712	0.0216	
* 38 Perylene-d12	264	19.589	19.597	-0.008	96	121560	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

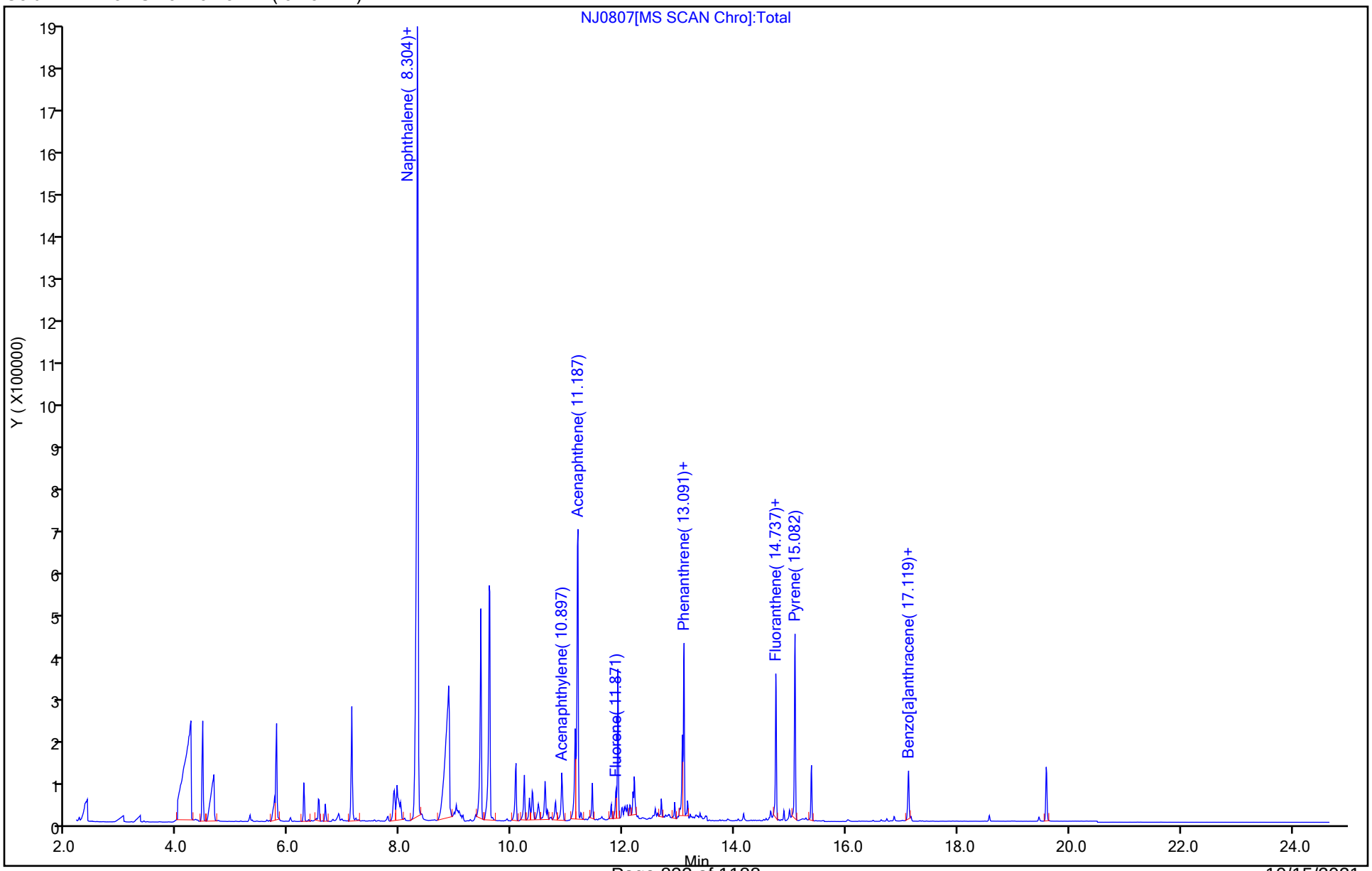
Report Date: 13-Oct-2021 07:27:28 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0807.D

Injection Date:	12-Oct-2021 09:13:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20	Worklist Smp#:	8
Client ID:	DUP-20210930				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	8
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



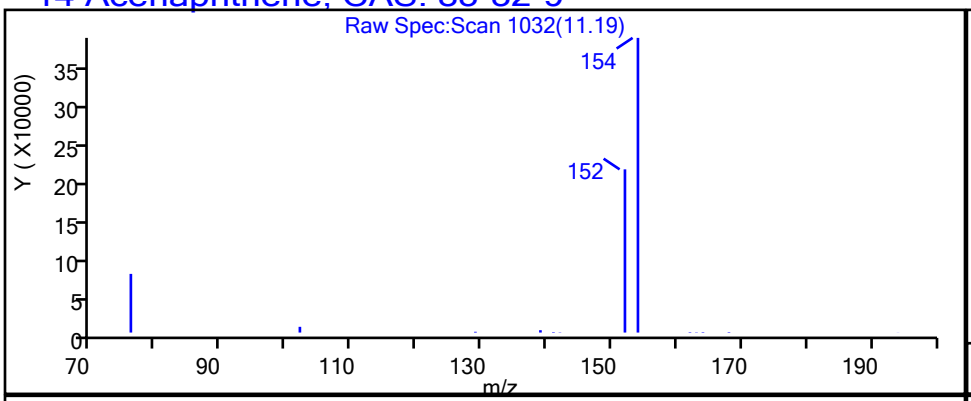
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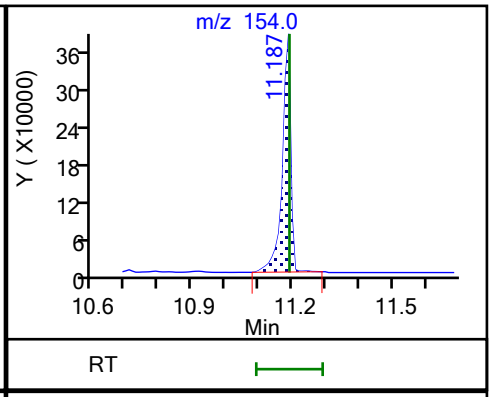
Eurofins Lancaster Laboratories Env, LLC

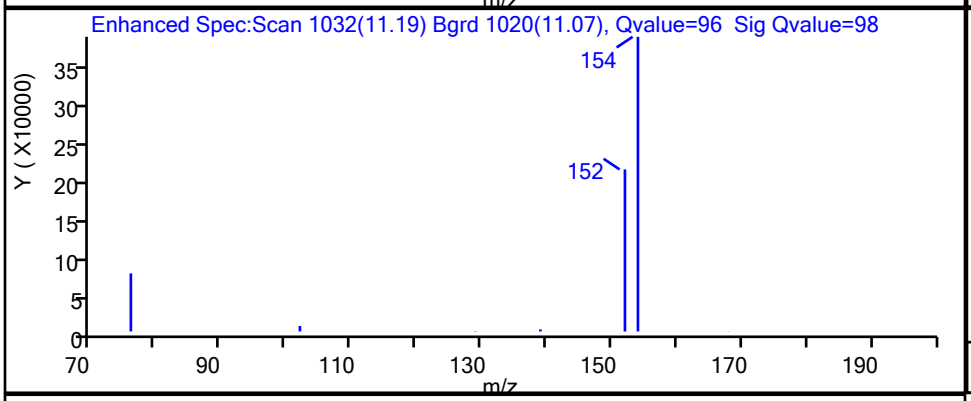
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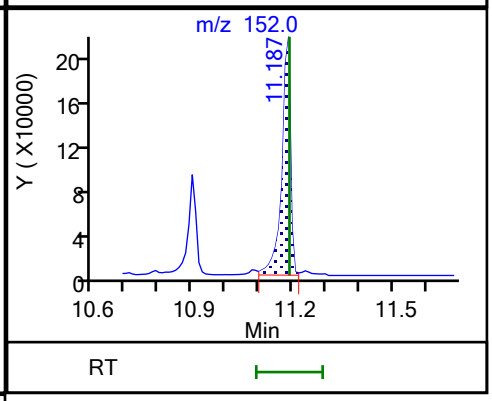
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Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

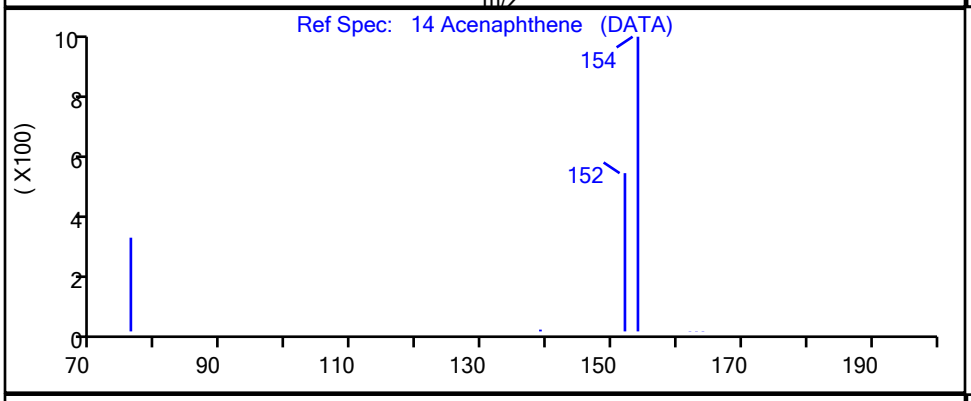
14 Acenaphthene, CAS: 83-32-9

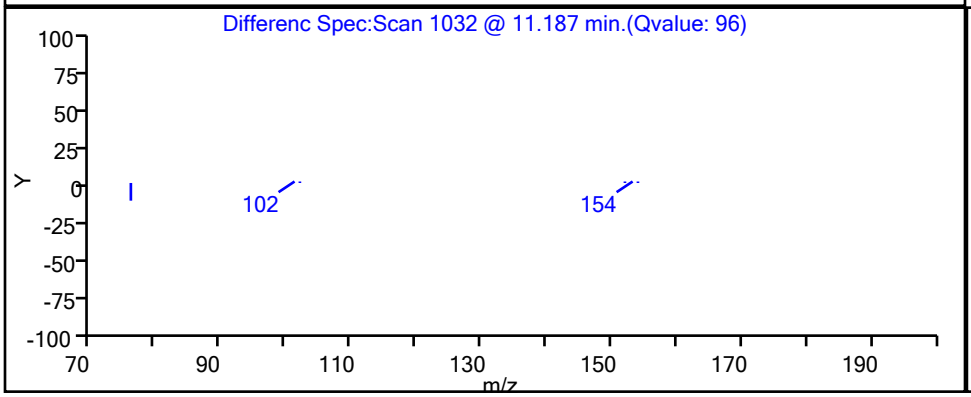


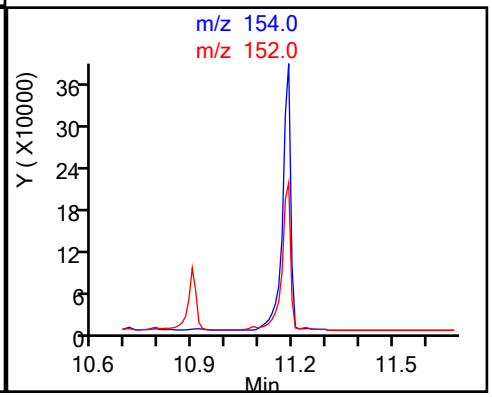












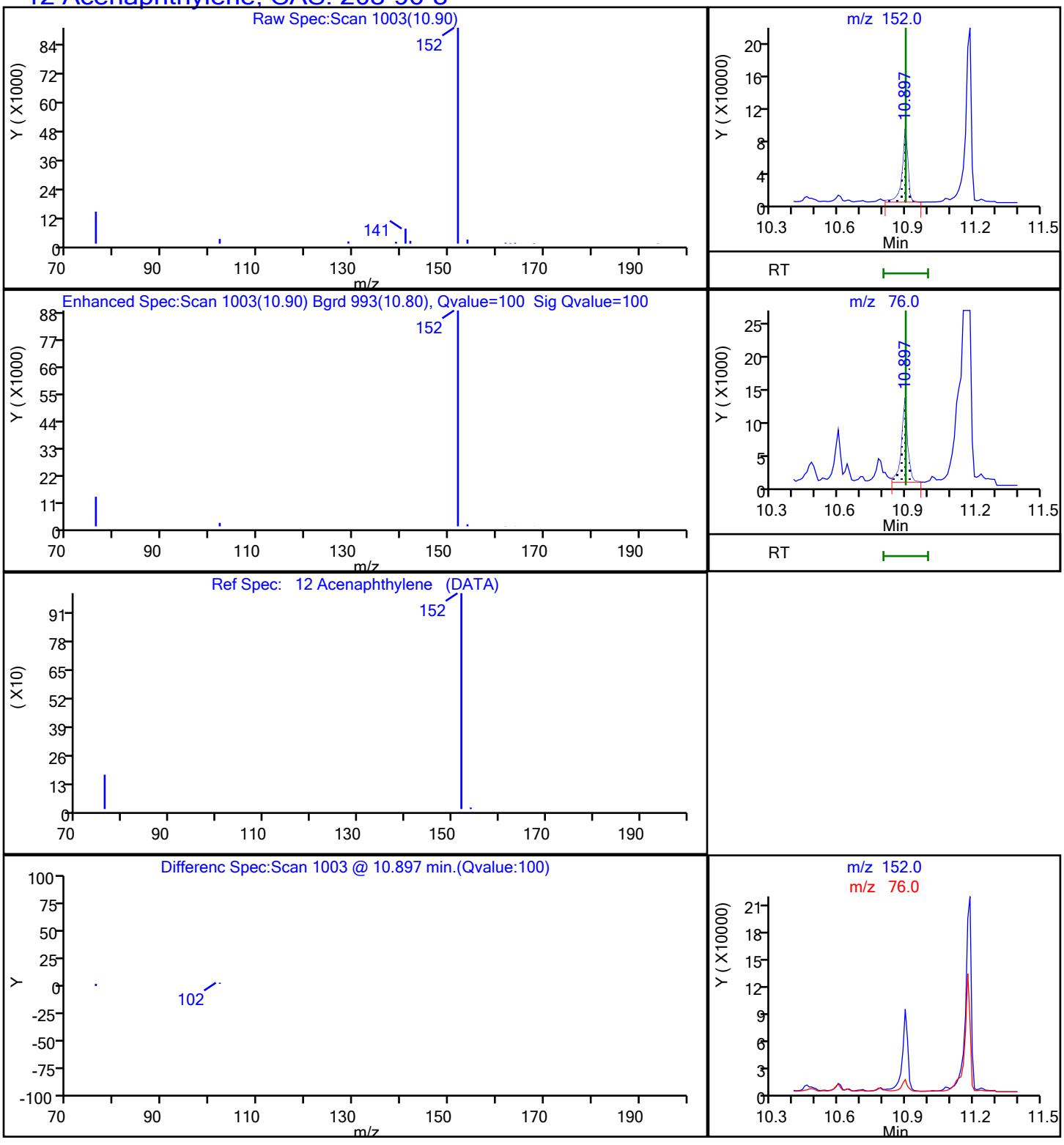
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	12-Oct-2021 09:13:30	Instrument ID:	HP23263		
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Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
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		

12 Acenaphthylene, CAS: 208-96-8



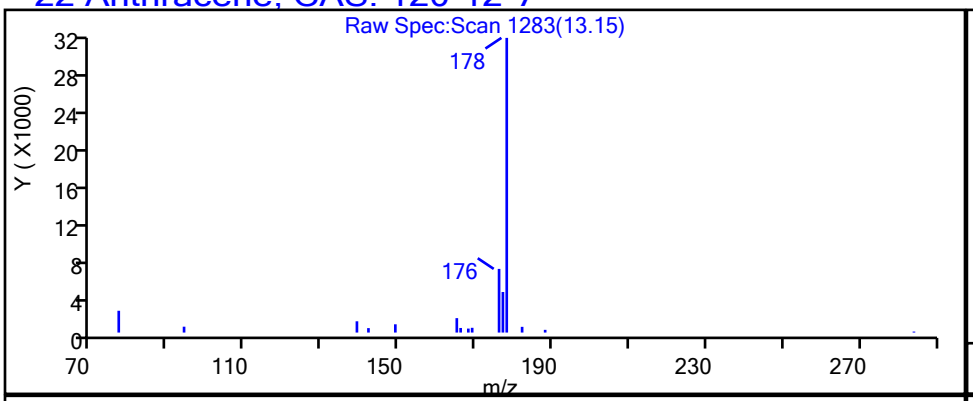
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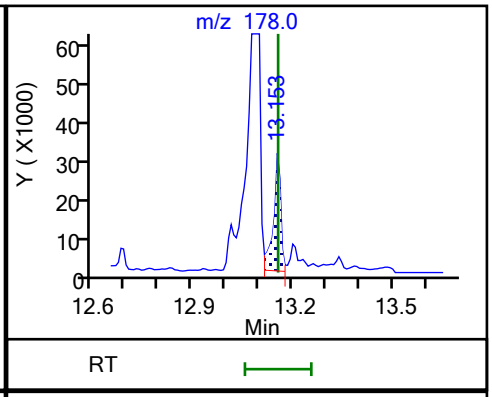
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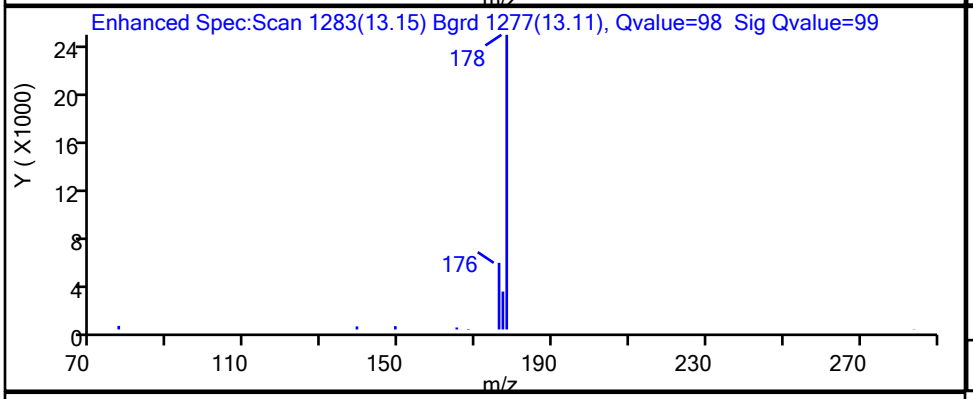
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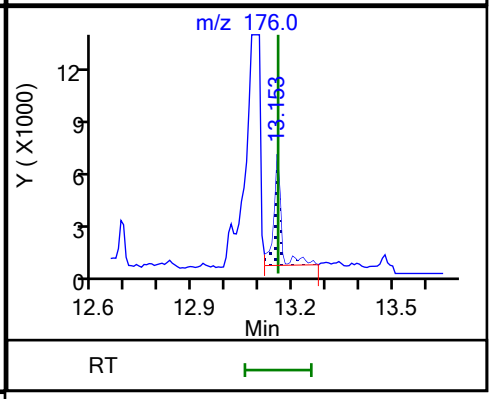
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Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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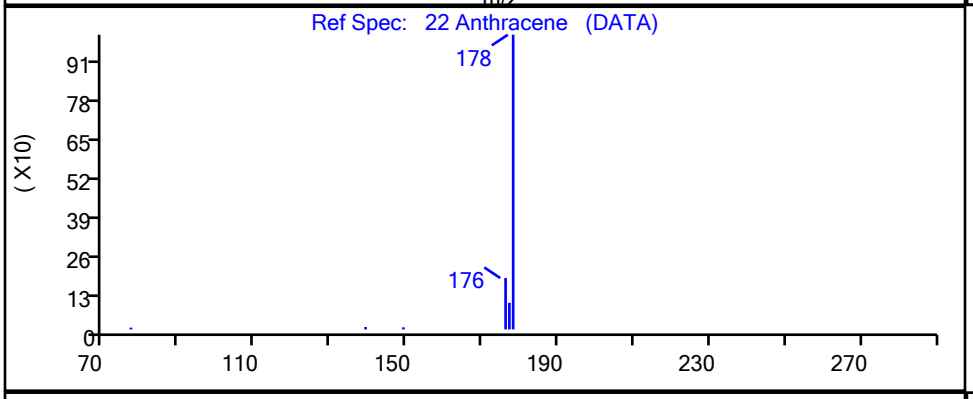
22 Anthracene, CAS: 120-12-7

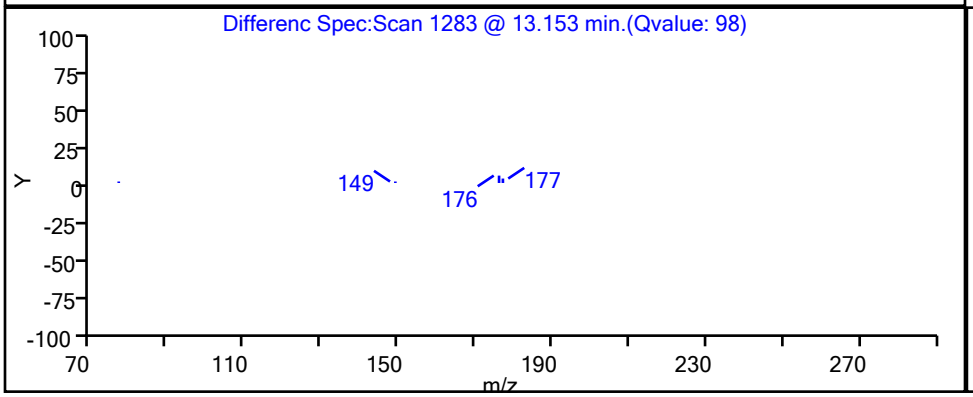


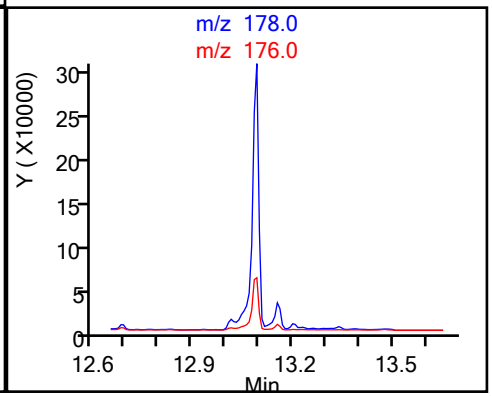








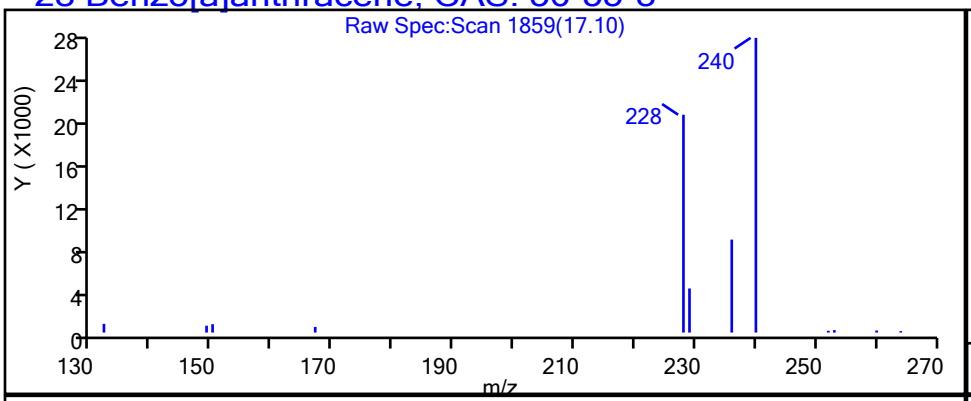


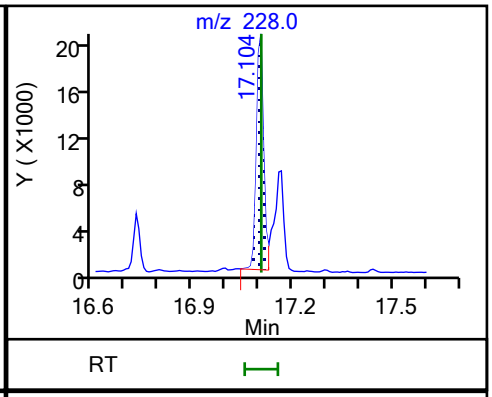


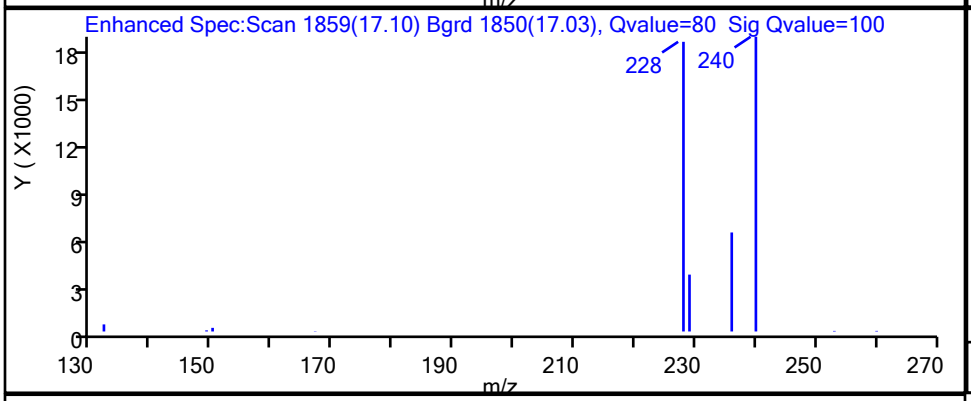
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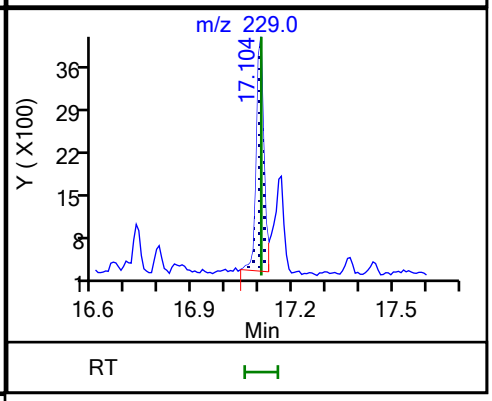
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Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

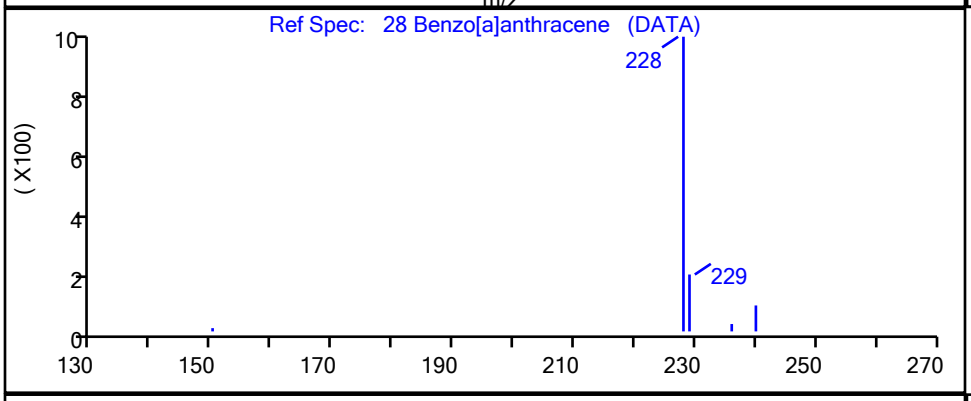
28 Benzo[a]anthracene, CAS: 56-55-3

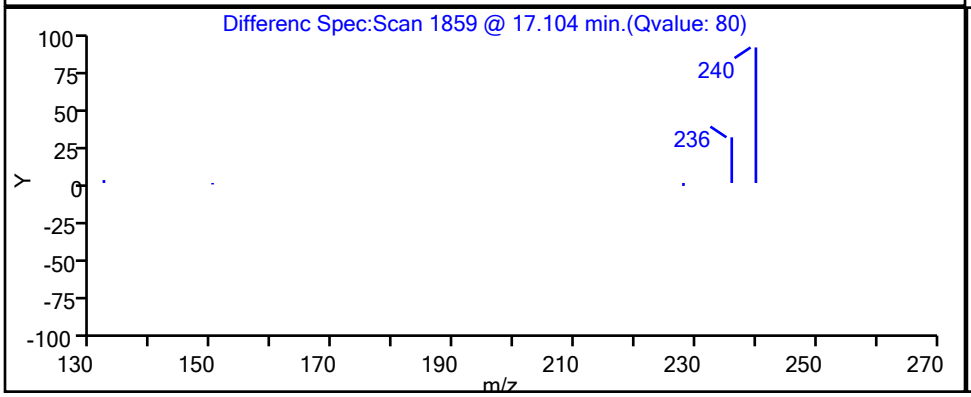


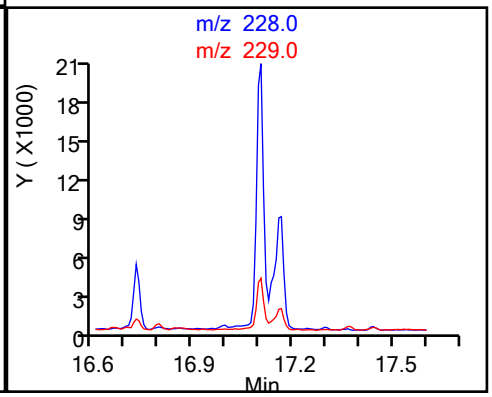










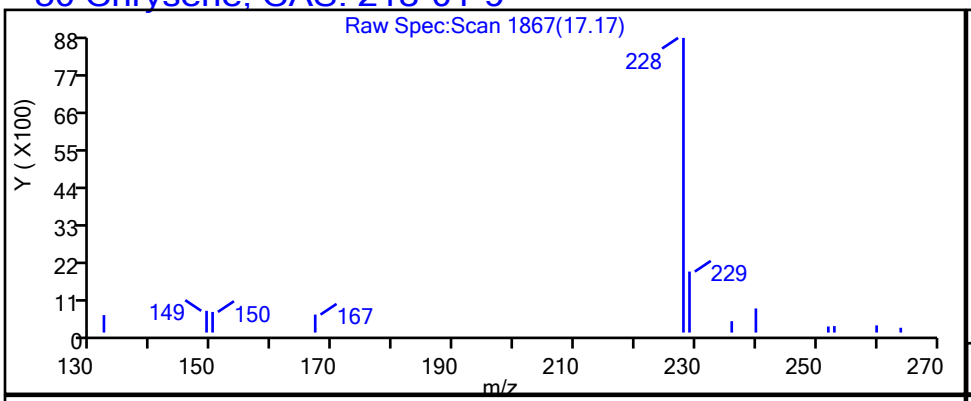


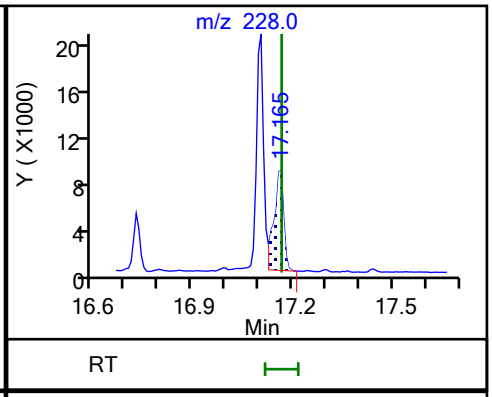
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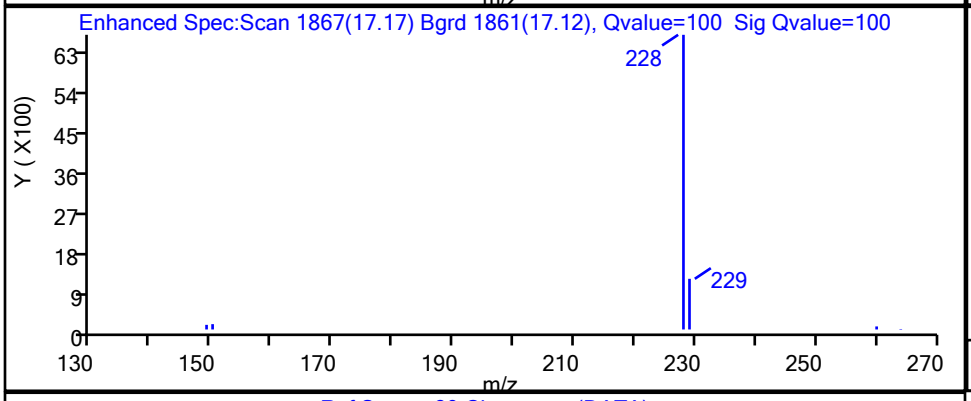
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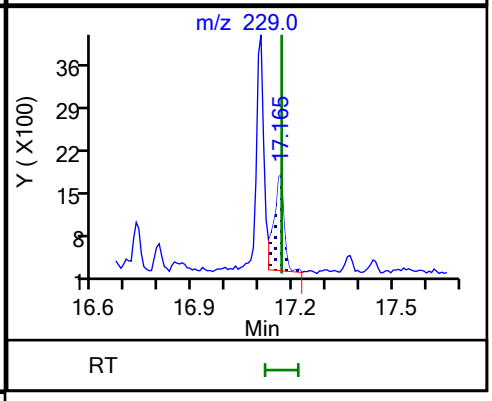
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Client ID:	DUP-20210930				
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

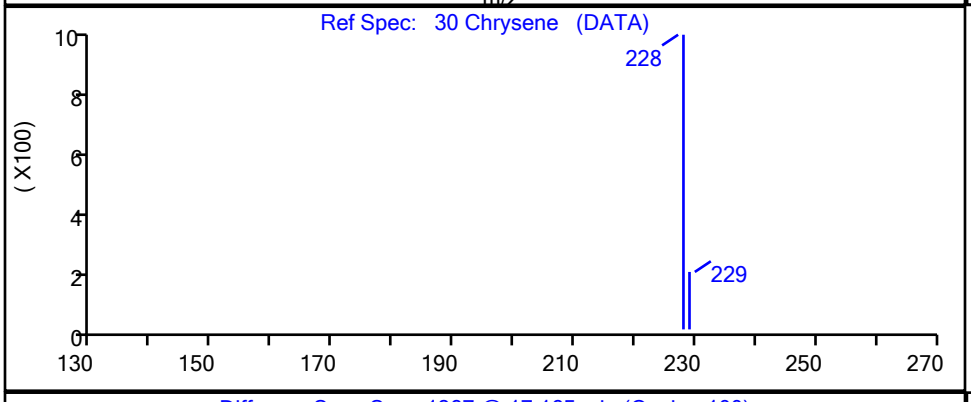
30 Chrysene, CAS: 218-01-9

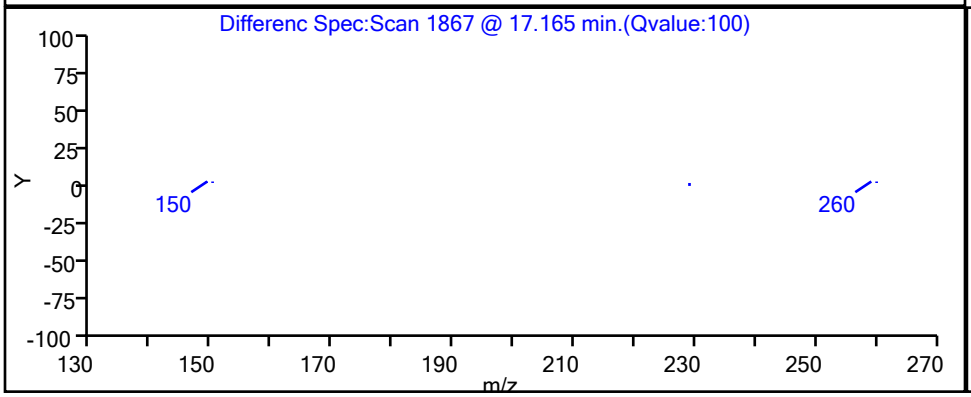


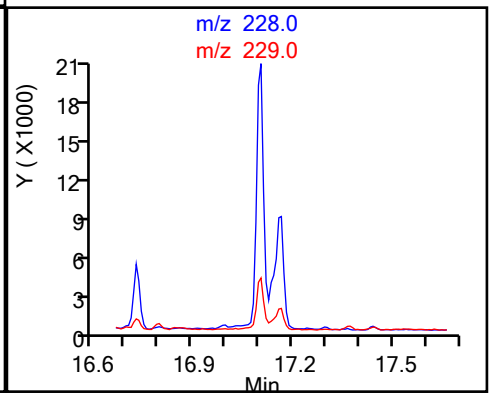












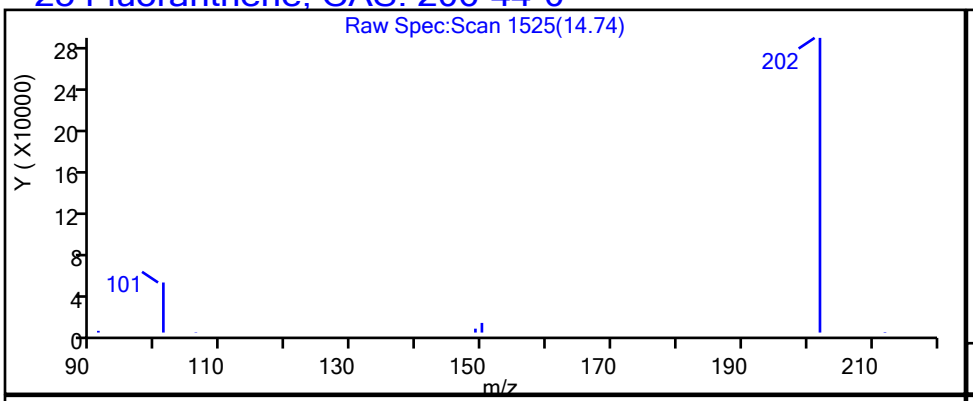
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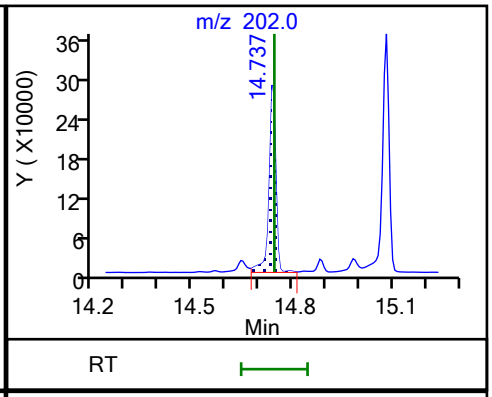
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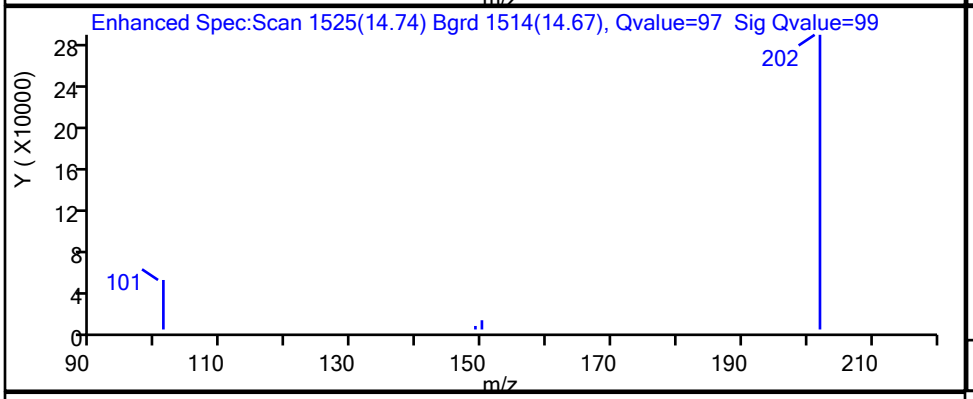
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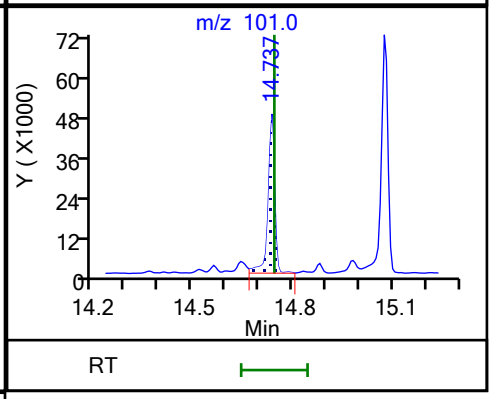
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Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

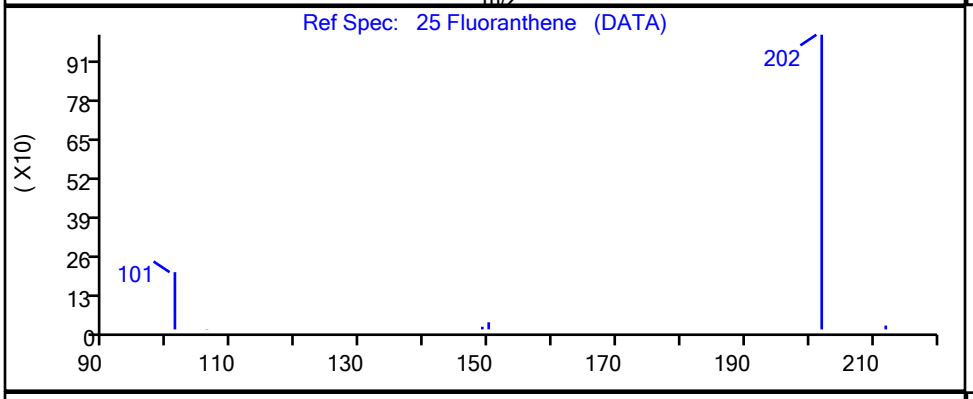
25 Fluoranthene, CAS: 206-44-0

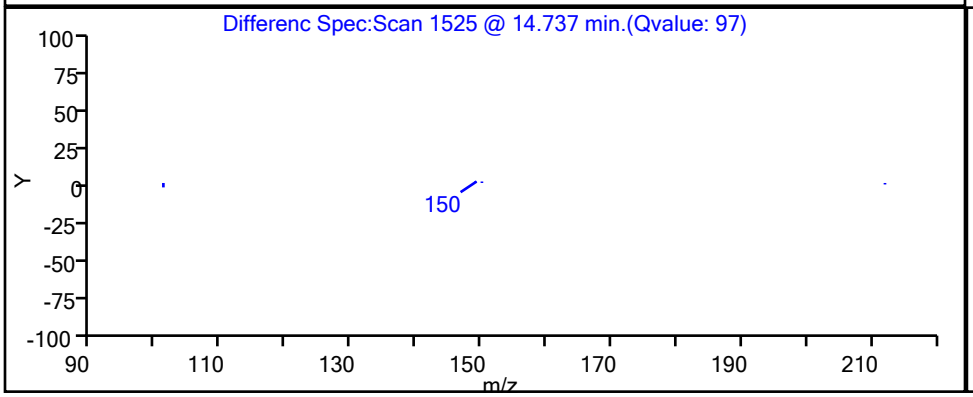


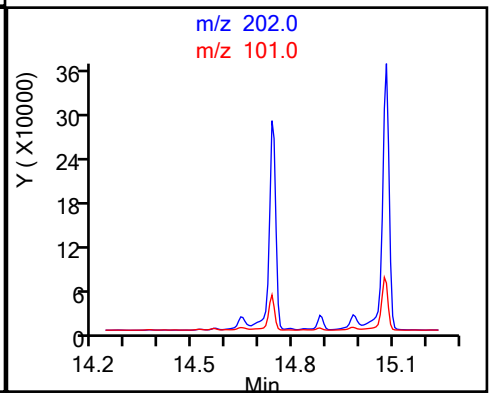








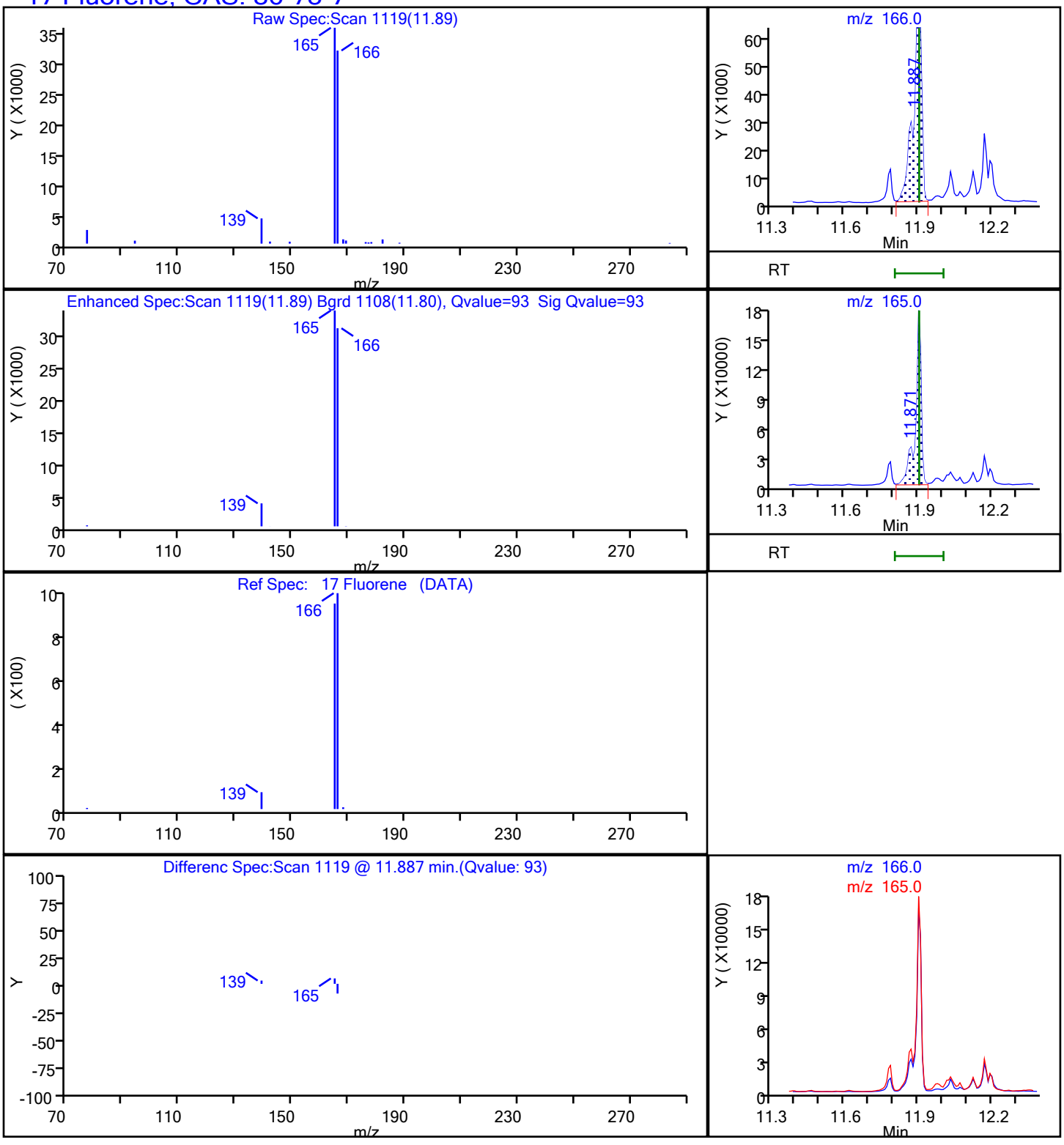




Eurofins Lancaster Laboratories Env, LLC

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Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
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		

17 Fluorene, CAS: 86-73-7

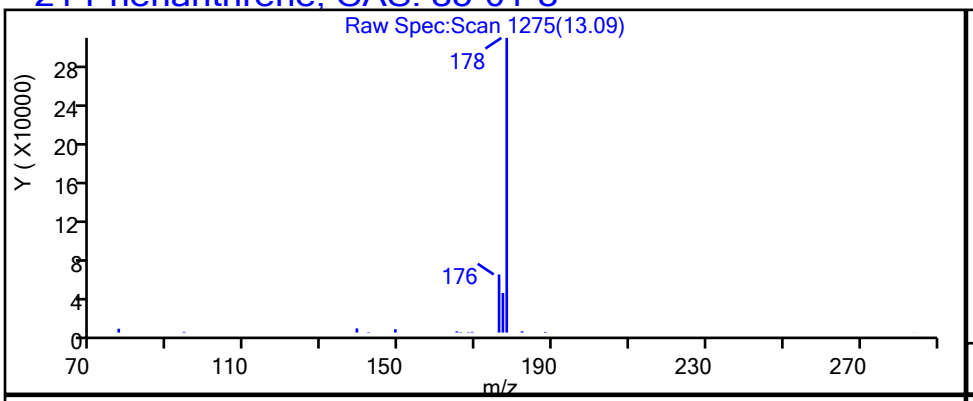


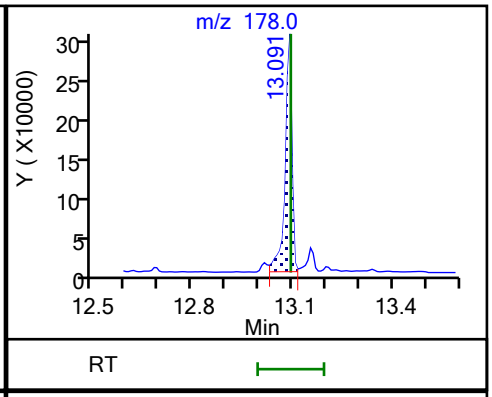
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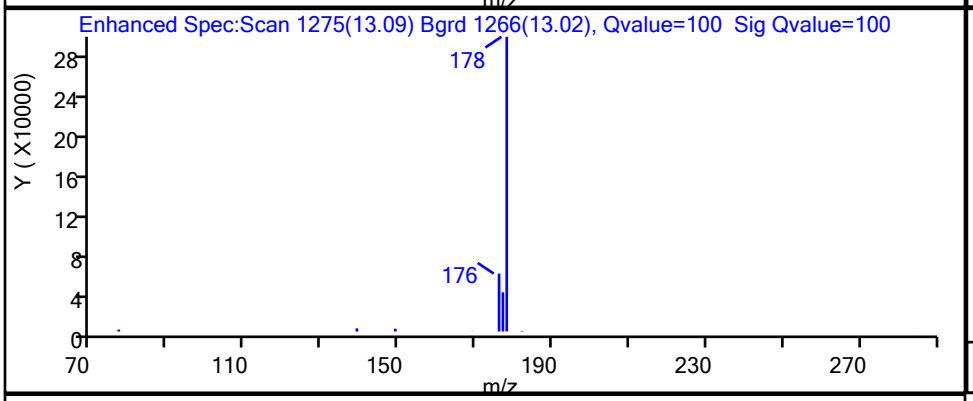
Eurofins Lancaster Laboratories Env, LLC

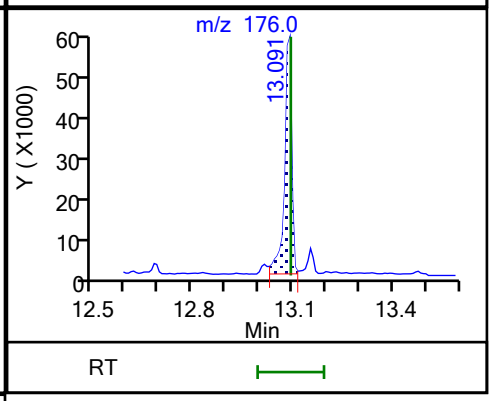
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Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20
Client ID:	DUP-20210930		
Operator ID:	jmg00346	ALS Bottle#:	8 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

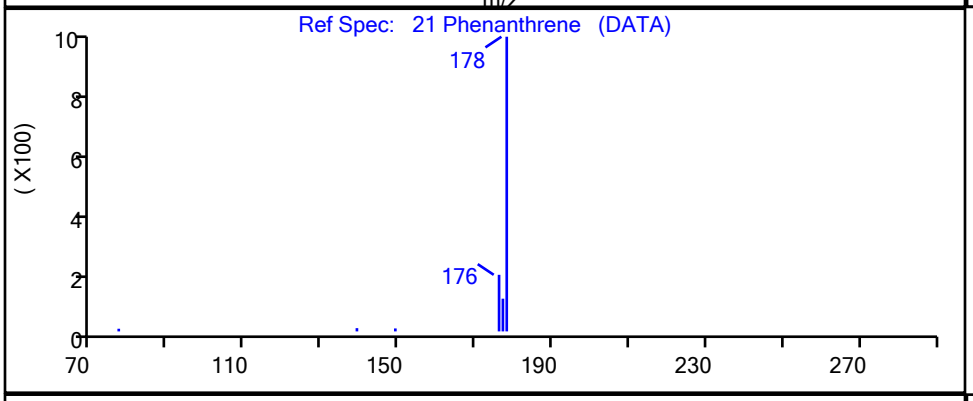
21 Phenanthrene, CAS: 85-01-8

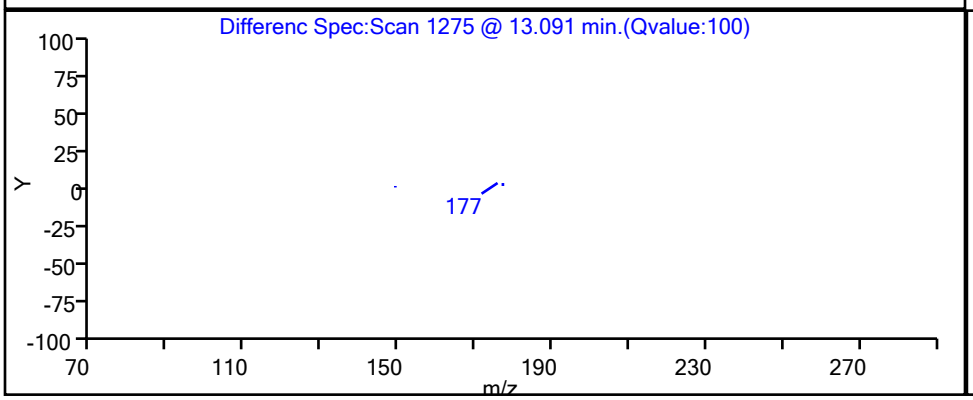


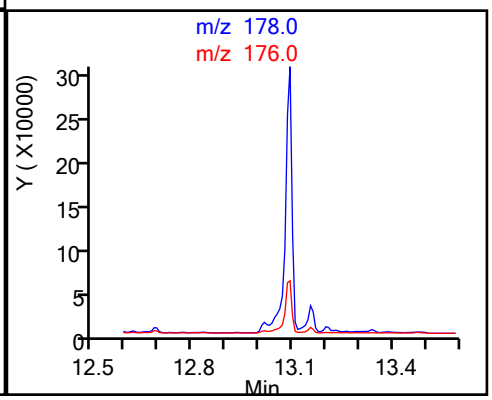












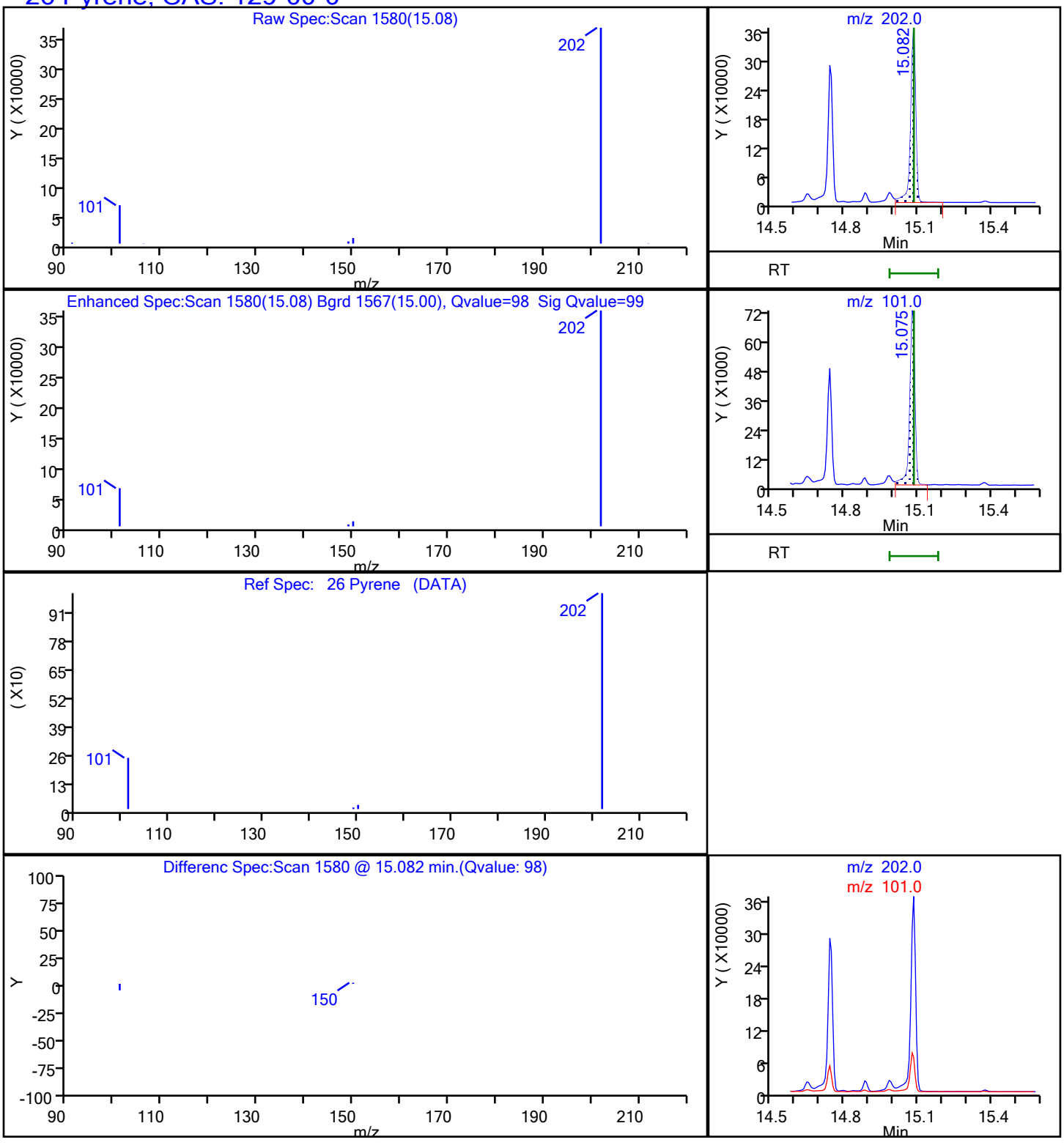
Report Date: 13-Oct-2021 07:27:28 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0807.D

Injection Date:	12-Oct-2021 09:13:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
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

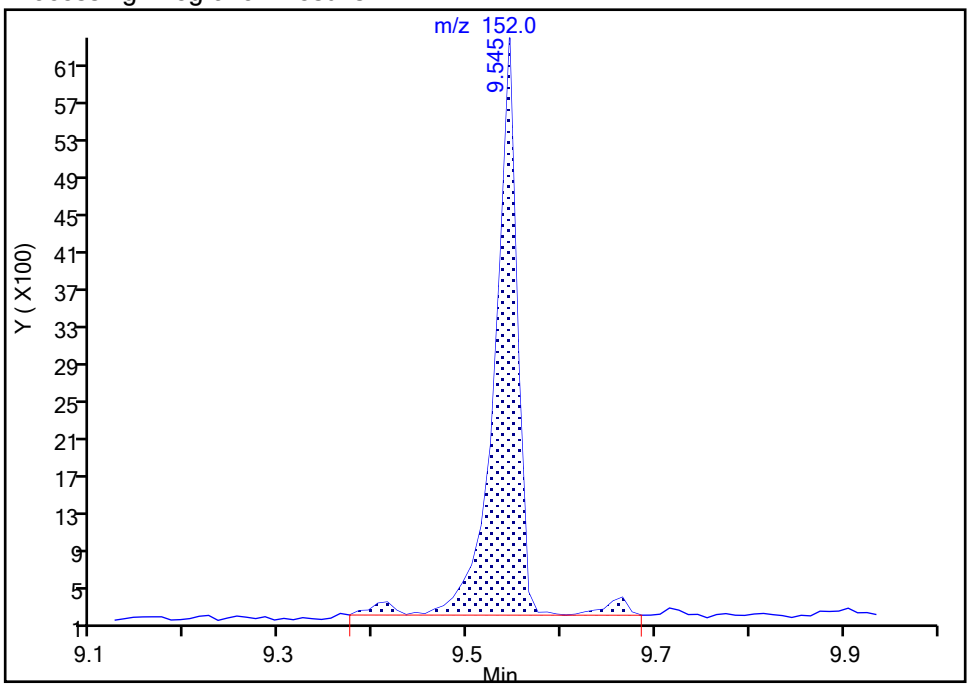
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Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	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: 9.54
Area: 10712
Amount: 0.021945
Amount Units: ug/ml



Manual Integration Results

RT: 9.54
Area: 10183
Amount: 0.020861
Amount Units: ug/ml

Reviewer: gamblerj, 13-Oct-2021 07:08:00
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

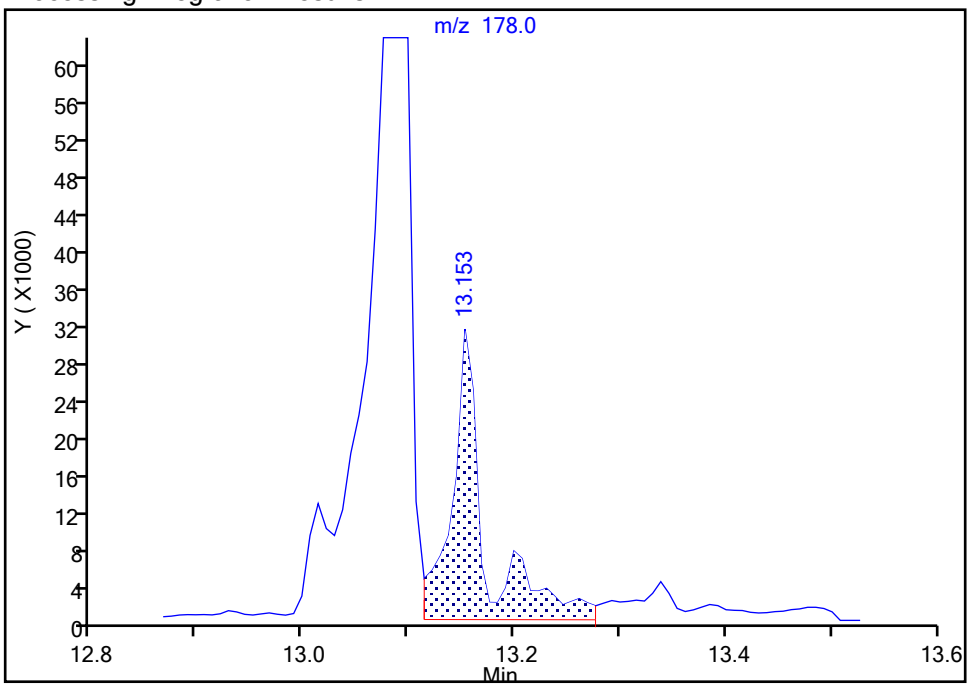
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Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

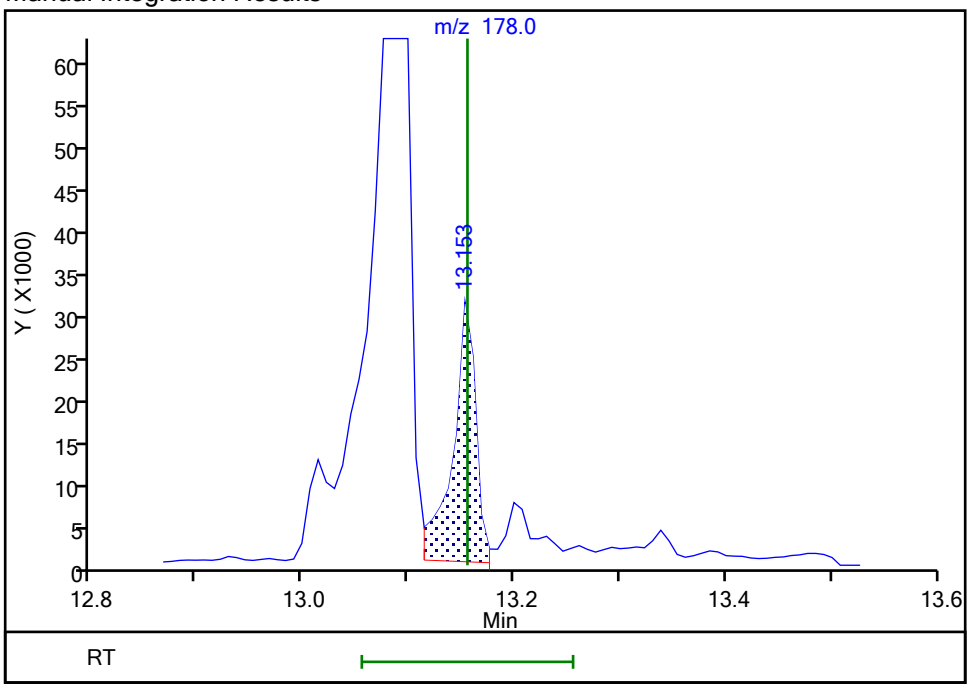
Processing Integration Results

RT: 13.15
Area: 66065
Amount: 0.081450
Amount Units: ug/ml



Manual Integration Results

RT: 13.15
Area: 45856
Amount: 0.056535
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 07:08:10
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

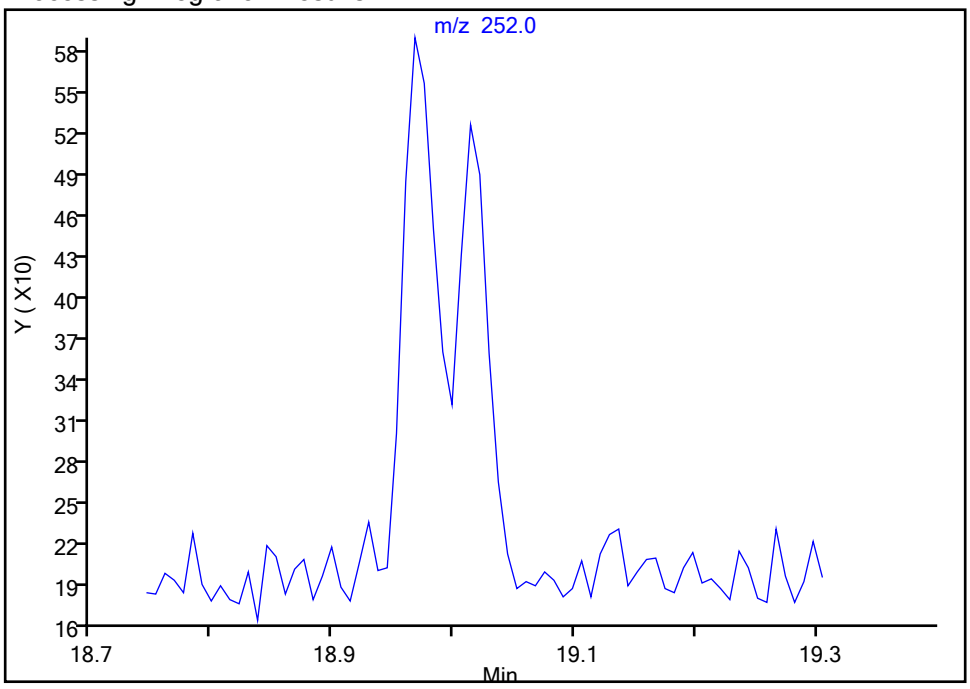
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Injection Date:	12-Oct-2021 09:13:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-20-A	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

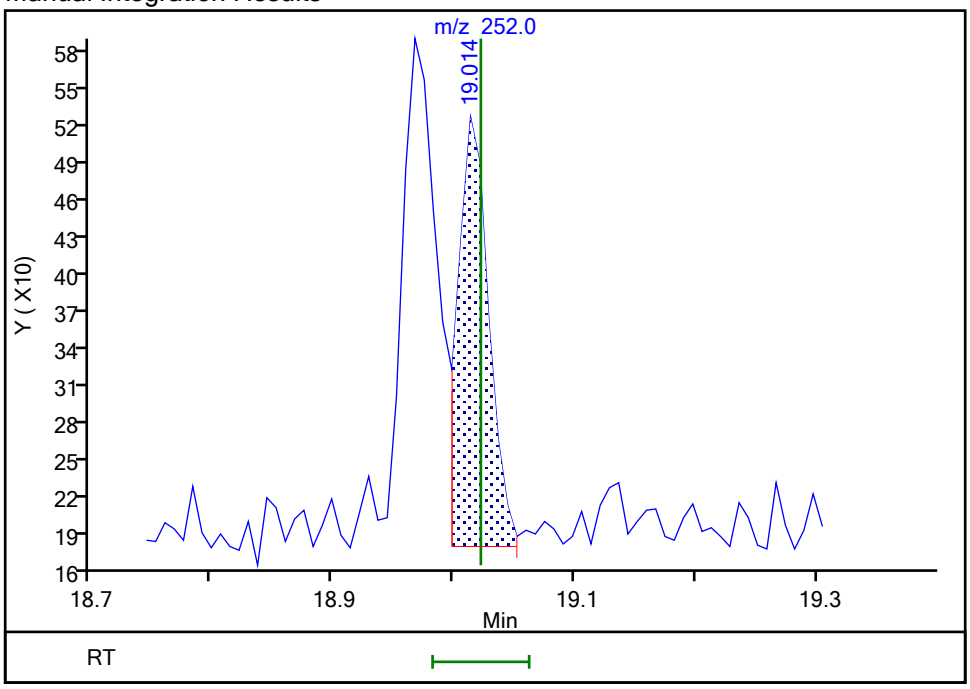
Not Detected
Expected RT: 19.02

Processing Integration Results



Manual Integration Results

RT: 19.01
Area: 584
Amount: 0.000761
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 07:08:21
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.: 410-57303-1

SDG No.:

Client Sample ID: DUP-20210930 DL Lab Sample ID: 410-57303-20 DL

Matrix: Ground Water Lab File ID: NJ0855.D

Analysis Method: 8270D SIM Date Collected: 09/30/2021 00:00

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 239.7(mL) Date Analyzed: 10/13/2021 10:47

Con. Extract Vol.: 1(mL) Dilution Factor: 50

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 182120 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	130		3.7	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	80		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	97		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\20211013-41421.b\NJ0855.D
Lims ID: 410-57303-B-20-A DL
Client ID: DUP-20210930
Sample Type: Client
Inject. Date: 13-Oct-2021 10:47:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: 410-57303-B-20-A
Misc. Info.: 410-0041421-006
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 15-Oct-2021 05:57:34 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: gamblerj Date: 15-Oct-2021 05:55:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	100	79427	0.2500	
* 5 Naphthalene-d8	136	8.267	8.267	0.000	100	254599	0.2500	
6 Naphthalene	128	8.292	8.292	0.000	99	676003	0.6006	
$ 9 1-Methylnaphthalene-d10	152	9.535	9.527	0.008	70	2519	0.004836	
12 Acenaphthylene	152	10.887	10.899	-0.002	99	37979	0.0357	
* 13 Acenaphthene-d10	164	11.127	11.119	0.008	97	122781	0.2500	
14 Acenaphthene	154	11.167	11.180	-0.003	97	152311	0.2621	
17 Fluorene	166	11.894	11.907	-0.003	96	58887	0.0786	
* 20 Phenanthrene-d10	188	13.045	13.047	-0.002	99	210335	0.2500	
21 Phenanthrene	178	13.076	13.078	-0.002	99	112689	0.1053	
22 Anthracene	178	13.145	13.145	0.005	99	9826	0.0101	M
$ 24 Fluoranthene-d10 (Surr)	212	14.699	14.700	-0.001	61	4440	0.005182	
25 Fluoranthene	202	14.724	14.725	-0.001	98	115387	0.1015	
26 Pyrene	202	15.063	15.064	-0.001	99	144336	0.1304	
28 Benzo[a]anthracene	228	17.081	17.082	-0.001	33	8014	0.008569	
* 29 Chrysene-d12	240	17.096	17.105	-0.009	82	154295	0.2500	
30 Chrysene	228	17.142	17.143	-0.001	99	4286	0.004739	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.443	19.444	-0.001	98	1981	0.003994	
* 38 Perylene-d12	264	19.573	19.574	-0.001	97	134348	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

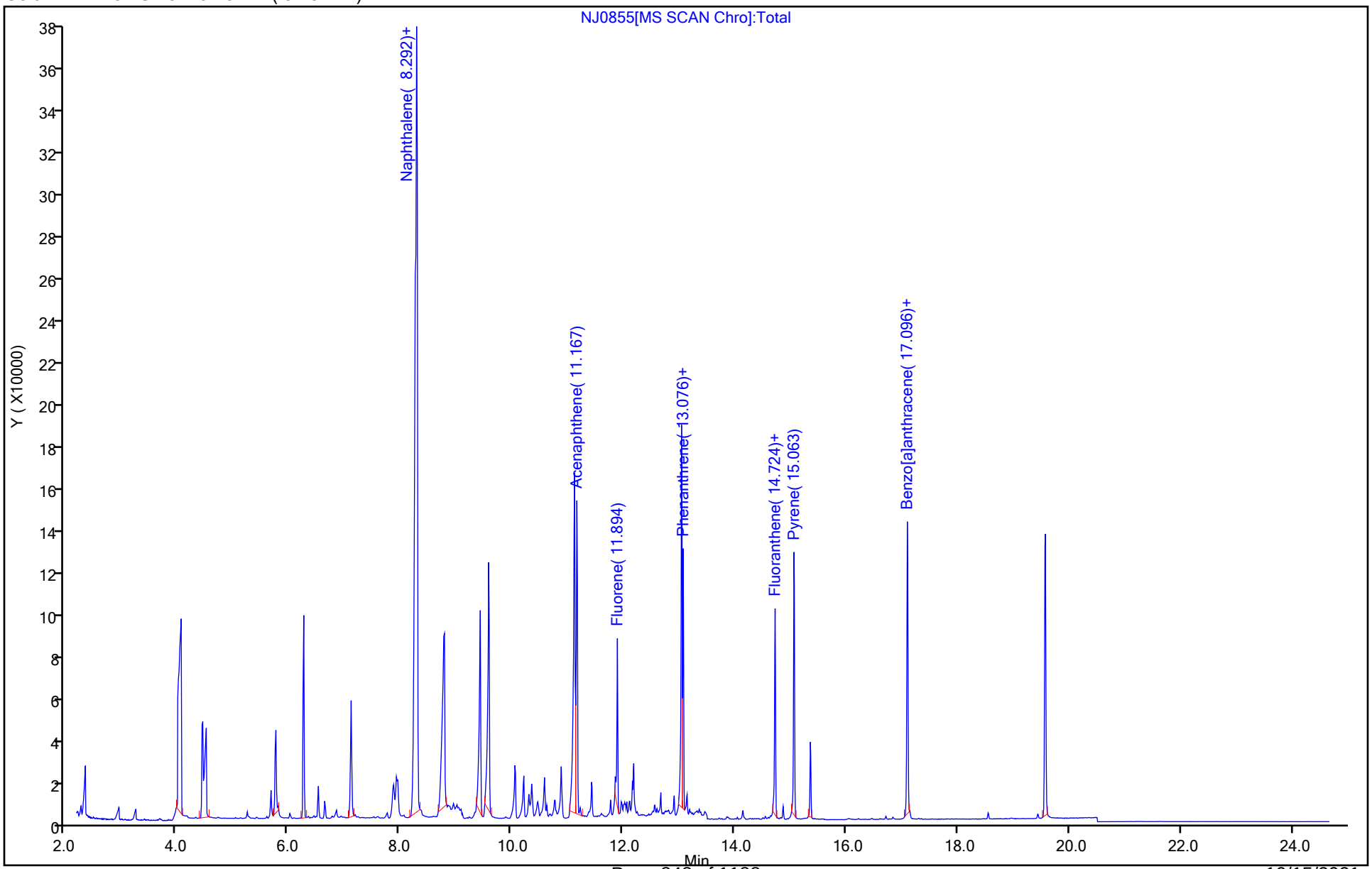
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0855.D

Injection Date:	13-Oct-2021 10:47:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-57303-B-20-A DL	Lab Sample ID:	410-57303-20	Worklist Smp#:	6
Client ID:	DUP-20210930				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



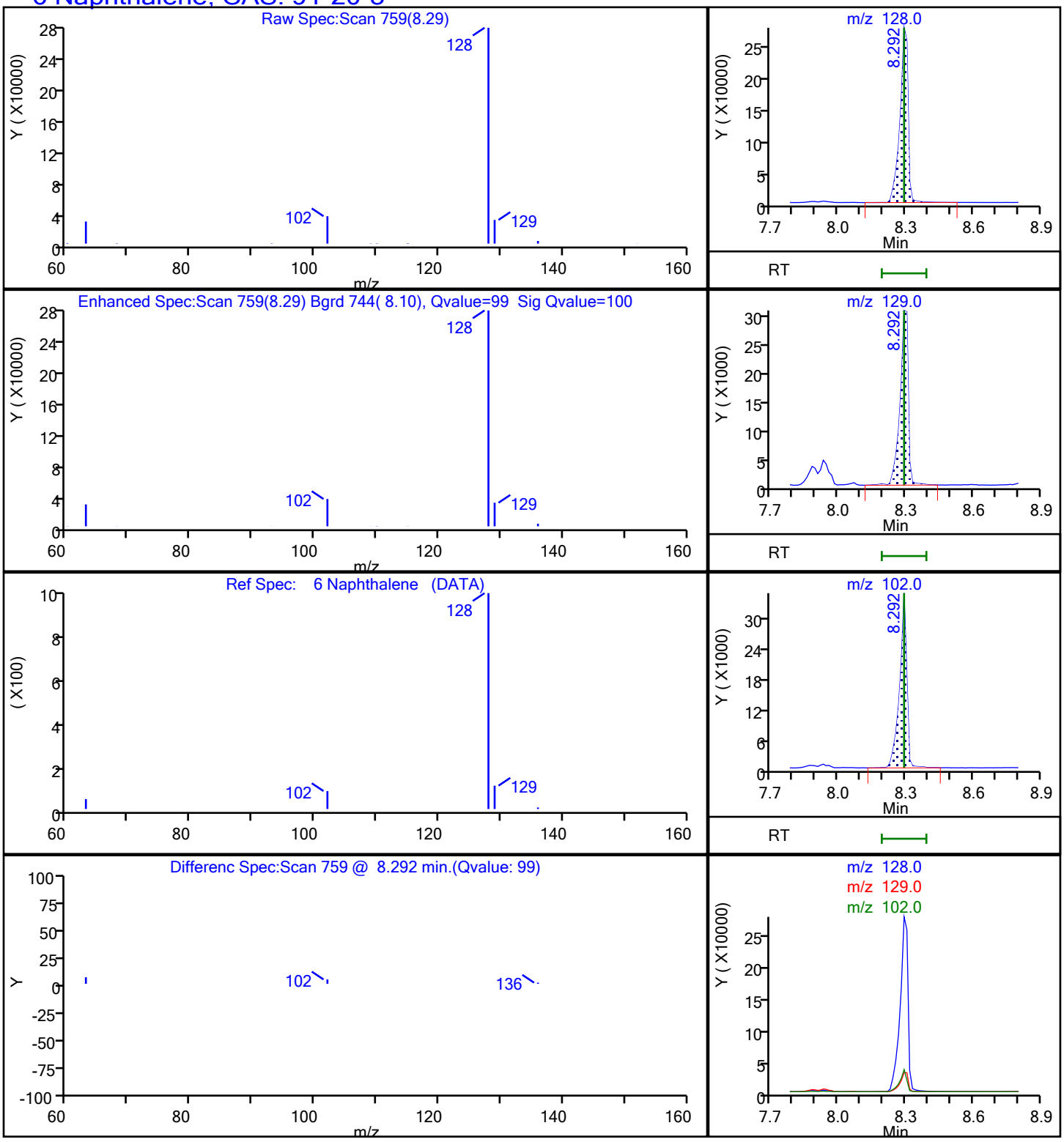
Report Date: 15-Oct-2021 05:58:46 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0855.D

Injection Date:	13-Oct-2021 10:47:30	Instrument ID:	HP23263		
Lims ID:	410-57303-B-20-A DL	Lab Sample ID:	410-57303-20		
Client ID:	DUP-20210930				
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
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



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 162682

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2021 06:11 Calibration End Date: 08/20/2021 09:08 Calibration ID: 29914

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-162682/7	MH1156.D
Level 2	IC 410-162682/6	MH1155.D
Level 3	IC 410-162682/5	MH1154.D
Level 4	ICIS 410-162682/2	MH1151.D
Level 5	IC 410-162682/4	MH1153.D
Level 6	IC 410-162682/3	MH1152.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	0.6724 0.6317	0.7484	0.6691	0.6382	0.6559	Ave		0.6693				6.3		20.4			
N-Nitrosodimethylamine	0.7732 0.7901	0.7840	0.7444	0.7791	0.8037	Ave		0.7791				2.6		20.4			
Bis(2-chloroethyl)ether	0.6087 0.4867	0.5190	0.4859	0.5041	0.5076	Ave		0.5187				8.8		20.4			
Naphthalene	1.2276 1.0828	1.2045	1.1469	1.1373	1.1690	Ave		1.1614				4.4		20.4			
Quinoline	0.6303 0.6492	0.6660	0.6383	0.6727	0.6760	Ave		0.6554				2.9		20.4			
2-Methylnaphthalene	0.7292 0.6941	0.7289	0.6895	0.7205	0.7379	Ave		0.7167				2.8		20.4			
1-Methylnaphthalene	0.6792 0.6396	0.6927	0.6583	0.6626	0.6848	Ave		0.6695				2.9		20.4			
Dimethylphthalate	1.2839 1.3246	1.4013	1.4031	1.3579	1.3640	Ave		1.3558				3.4		20.4			
Acenaphthylene	2.0789 2.1720	2.0492	1.9558	2.0938	2.2115	Ave		2.0935				4.3		20.4			
Acenaphthene	1.3898 1.2527	1.2782	1.2094	1.2295	1.2760	Ave		1.2726				5.0		20.4			
Dibenzofuran	2.0462 1.9397	2.0032	1.9156	1.9416	2.0280	Ave		1.9791				2.7		20.4			
Diethylphthalate	1.2258 1.3766	1.3746	1.3900	1.3641	1.4140	Ave		1.3575				4.9		20.4			
Fluorene	1.5005 1.5134	1.4804	1.4379	1.4840	1.5573	Ave		1.4956				2.6		20.4			
N-Nitrosodiphenylamine	0.6476 0.4838	0.5143	0.4963	0.5004	0.5228	Ave		0.5275				11.5		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.: 410-57303-1 Analy Batch No.: 162682

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2021 06:11 Calibration End Date: 08/20/2021 09:08 Calibration ID: 29914

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	0.2821 0.2572	0.2716	0.2587	0.2627	0.2703	Ave		0.2671				3.5		20.4			
Phenanthrene	1.3897 1.2477	1.3150	1.2457	1.2693	1.3090	Ave		1.2961				4.2		20.4			
Anthracene	1.1599 1.2270	1.1386	1.1152	1.2091	1.2665	Ave		1.1860				4.9		20.4			
Di-n-butyl phthalate	1.2210 1.1616	1.3782	1.4289	1.4936	1.5065	Ave		1.3650				10.5		20.4			
Fluoranthene	1.3182 1.4144	1.3235	1.2986	1.3994	1.4489	Ave		1.3672				4.5		20.4			
Pyrene	1.7180 1.6613	1.6318	1.5838	1.6565	1.7092	Ave		1.6601				3.0		20.4			
Butylbenzylphthalate	0.6016 0.7754	0.7018	0.7501	0.7928	0.8078	Ave		0.7383				10.4		20.4			
Benzo[a]anthracene	1.4568 1.4862	1.3574	1.3411	1.4610	1.5205	Ave		1.4372				5.0		20.4			
Chrysene	1.7300 1.5131	1.6143	1.5579	1.5456	1.6070	Ave		1.5947				4.8		20.4			
Bis(2-ethylhexyl) phthalate	0.8133 1.0646	0.9669	1.0492	1.1121	1.1374	Ave		1.0239				11.6		20.4			
Di-n-octyl phthalate	1.3155 1.3358	1.6032	1.7792	1.9223	1.9460	Ave		1.6503				17.0		20.4			
Benzo[b]fluoranthene	1.4152 1.3678	1.3880	1.3658	1.5024	1.4725	Ave		1.4186				4.0		20.4			
Benzo[k]fluoranthene	1.5086 1.4888	1.5040	1.4534	1.5201	1.6064	Ave		1.5136				3.4		20.4			
Benzo[e]pyrene	1.3950 1.3334	1.3596	1.3312	1.4205	1.4518	Ave		1.3819				3.5		20.4			
Benzo[a]pyrene	1.2208 1.3147	1.3010	1.2977	1.3824	1.4164	Ave		1.3222				5.2		20.4			
Perylene	1.6677 1.3399	1.4887	1.3785	1.4293	1.4492	Ave		1.4589				7.9		20.4			
Indeno[1,2,3-cd]pyrene	0.9504 1.1569	0.9590	0.9764	1.1270	1.1985	Ave		1.0614				10.5		20.4			
Dibenz(a,h)anthracene	1.1107 1.2685	1.1818	1.1721	1.2871	1.3524	Ave		1.2288				7.2		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.: 410-57303-1 Analy Batch No.: 162682

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2021 06:11 Calibration End Date: 08/20/2021 09:08 Calibration ID: 29914

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	1.2713 1.2894	1.2549	1.2417	1.3372	1.3879	Ave		1.2971				4.3		20.4			
1-Methylnaphthalene-d10 (Surr)	0.4710 0.4702	0.4932	0.4784	0.4860	0.5046	Ave		0.4839				2.8		20.4			
Fluoranthene-d10 (Surr)	0.9654 1.0332	0.9452	0.9257	1.0148	1.0566	Ave		0.9902				5.3		20.4			
Benzo(a)pyrene-d12 (Surr)	0.8098 0.9170	0.8429	0.8458	0.9424	0.9780	Ave		0.8893				7.4		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.: 410-57303-1 Analy Batch No.: 162682

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2021 06:11 Calibration End Date: 08/20/2021 09:08 Calibration ID: 29914

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-162682/7	MH1156.D
Level 2	IC 410-162682/6	MH1155.D
Level 3	IC 410-162682/5	MH1154.D
Level 4	ICIS 410-162682/2	MH1151.D
Level 5	IC 410-162682/4	MH1153.D
Level 6	IC 410-162682/3	MH1152.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	3441 731109	17965	32210	143276	304006	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	3957 914393	18820	35835	174913	372503	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	10360 1960471	41076	77002	384865	794307	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	20895 4361371	95328	181750	868318	1829164	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	10729 2614587	52712	101161	513553	1057810	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	12412 2795635	57683	109275	550088	1154593	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	11560 2576105	54819	104317	505904	1071571	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	253962 9751991	526702	1061849	2441200	5018999	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	16449 3997737	77024	148009	752808	1627520	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	10996 2305633	48045	91525	442078	939048	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	16190 3570167	75295	144971	698096	1492466	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	242478 10134823	516670	1051941	2452254	5202887	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	11872	55645	108817	533570	1146040	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.: 410-57303-1 Analy Batch No.: 162682

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2021 06:11 Calibration End Date: 08/20/2021 09:08 Calibration ID: 29914

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
			2785542					2.50				
N-Nitrosodiphenylamine	PHN	Ave	8494 1589848	32850	64512	305636	666044	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	3700 845255	17346	33632	160452	344413	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	18226 4100280	83994	161929	775317	1667633	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	15212 4032326	72727	144958	738563	1613479	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	400333 15269735	880265	1857433	4561681	9596412	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	17288 4648269	84536	168806	854799	1845900	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	18311 4859533	86553	174177	889367	1915618	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	160300 9071850	372253	824979	2128263	4527112	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	15527 4347394	71999	147487	784391	1704141	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	18439 4426070	85622	171336	829832	1801112	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	216696 12456124	512836	1153831	2985311	6373699	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	336240 16237066	833492	1933077	5101603	10875323	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	14469 4156414	72163	148394	797419	1645784	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	15424 4524091	78195	157913	806840	1795470	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	14262 4051780	70686	144638	753976	1622663	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	12481 3994949	67642	140990	733750	1583083	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	17051 4071689	77397	149768	758645	1619743	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	9717	49857	106084	598211	1339518	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.: 410-57303-1 Analy Batch No.: 162682

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/20/2021 06:11 Calibration End Date: 08/20/2021 09:08 Calibration ID: 29914

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
			3515545					2.50				
Dibenz(a,h)anthracene	PRY	Ave	11356 3854578	61440	127345	683170	1511550	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	12998 3918174	65242	134914	709770	1551193	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	8017 1893663	39032	75817	371052	789608	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	12661 3395596	60373	120325	619882	1346086	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	8279 2786468	43823	91898	500203	1093067	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\20210820-37357.b\MH1151.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 20-Aug-2021 06:11:49 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0037357-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:20:16 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: gamblerj Date: 20-Aug-2021 09:55:31

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	3.814	3.814	0.000	94	143276	0.5000	0.4768	
2 N-Nitrosodimethylamine	74	4.171	4.171	0.000	99	174913	0.5000	0.5000	
3 Bis(2-chloroethyl)ether	93	7.093	7.093	0.000	97	384865	0.5000	0.4860	
* 4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	90	112248	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.402	9.402	0.000	92	381731	0.2500	0.2500	
6 Naphthalene	128	9.422	9.422	0.000	93	868318	0.5000	0.4897	
7 Quinoline	129	9.958	9.958	0.000	100	513553	0.5000	0.5131	
8 2-Methylnaphthalene	142	10.536	10.536	0.000	95	550088	0.5000	0.5027	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.633	0.000	100	371052	0.5000	0.5022	
10 1-Methylnaphthalene	142	10.682	10.682	0.000	97	505904	0.5000	0.4949	
11 Dimethyl phthalate	163	11.771	11.771	0.000	78	2441200	2.50	2.50	
12 Acenaphthylene	152	11.917	11.917	0.000	100	752808	0.5000	0.5001	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	92	179773	0.2500	0.2500	
14 Acenaphthene	154	12.150	12.150	0.000	93	442078	0.5000	0.4831	
15 Dibenzofuran	168	12.377	12.377	0.000	100	698096	0.5000	0.4905	
16 Diethyl phthalate	149	12.689	12.689	0.000	99	2452254	2.50	2.51	
17 Fluorene	166	12.814	12.814	0.000	95	533570	0.5000	0.4961	
18 N-Nitrosodiphenylamine	169	12.978	12.978	0.000	98	305636	0.5000	0.4743	
19 Hexachlorobenzene	284	13.508	13.508	0.000	96	160452	0.5000	0.4917	
* 20 Phenanthrene-d10	188	14.039	14.039	0.000	100	305411	0.2500	0.2500	
21 Phenanthrene	178	14.070	14.070	0.000	100	775317	0.5000	0.4897	
22 Anthracene	178	14.141	14.141	0.000	100	738563	0.5000	0.5097	
23 Di-n-butyl phthalate	149	14.871	14.871	0.000	100	4561681	2.50	2.74	
$ 24 Fluoranthene-d10 (Surr)	212	15.780	15.780	0.000	100	619882	0.5000	0.5125	
25 Fluoranthene	202	15.811	15.811	0.000	100	854799	0.5000	0.5118	
26 Pyrene	202	16.169	16.169	0.000	100	889367	0.5000	0.4989	
27 Butyl benzyl phthalate	149	17.313	17.313	0.000	100	2128263	2.50	2.68	
28 Benzo[a]anthracene	228	18.249	18.249	0.000	100	784391	0.5000	0.5083	
* 29 Chrysene-d12	240	18.264	18.264	0.000	83	268442	0.2500	0.2500	
30 Chrysene	228	18.310	18.310	0.000	100	829832	0.5000	0.4846	

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	18.387	18.387	0.000	98	2985311	2.50	2.72	
32 Di-n-octyl phthalate	149	19.568	19.568	0.000	100	5101603	2.50	2.91	
33 Benzo[b]fluoranthene	252	20.135	20.135	0.000	100	797419	0.5000	0.5295	
34 Benzo[k]fluoranthene	252	20.189	20.189	0.000	100	806840	0.5000	0.5022	
35 Benzo[e]pyrene	252	20.596	20.596	0.000	100	753976	0.5000	0.5140	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.642	20.642	0.000	99	500203	0.5000	0.5299	
37 Benzo[a]pyrene	252	20.680	20.680	0.000	100	733750	0.5000	0.5228	
* 38 Perylene-d12	264	20.772	20.772	0.000	98	265388	0.2500	0.2500	
39 Perylene	252	20.818	20.818	0.000	100	758645	0.5000	0.4899	
40 Indeno[1,2,3-cd]pyrene	276	22.625	22.625	0.000	98	598211	0.5000	0.5309	M
41 Dibenz(a,h)anthracene	278	22.682	22.682	0.000	99	683170	0.5000	0.5237	
42 Benzo[g,h,i]perylene	276	23.148	23.148	0.000	99	709770	0.5000	0.5155	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

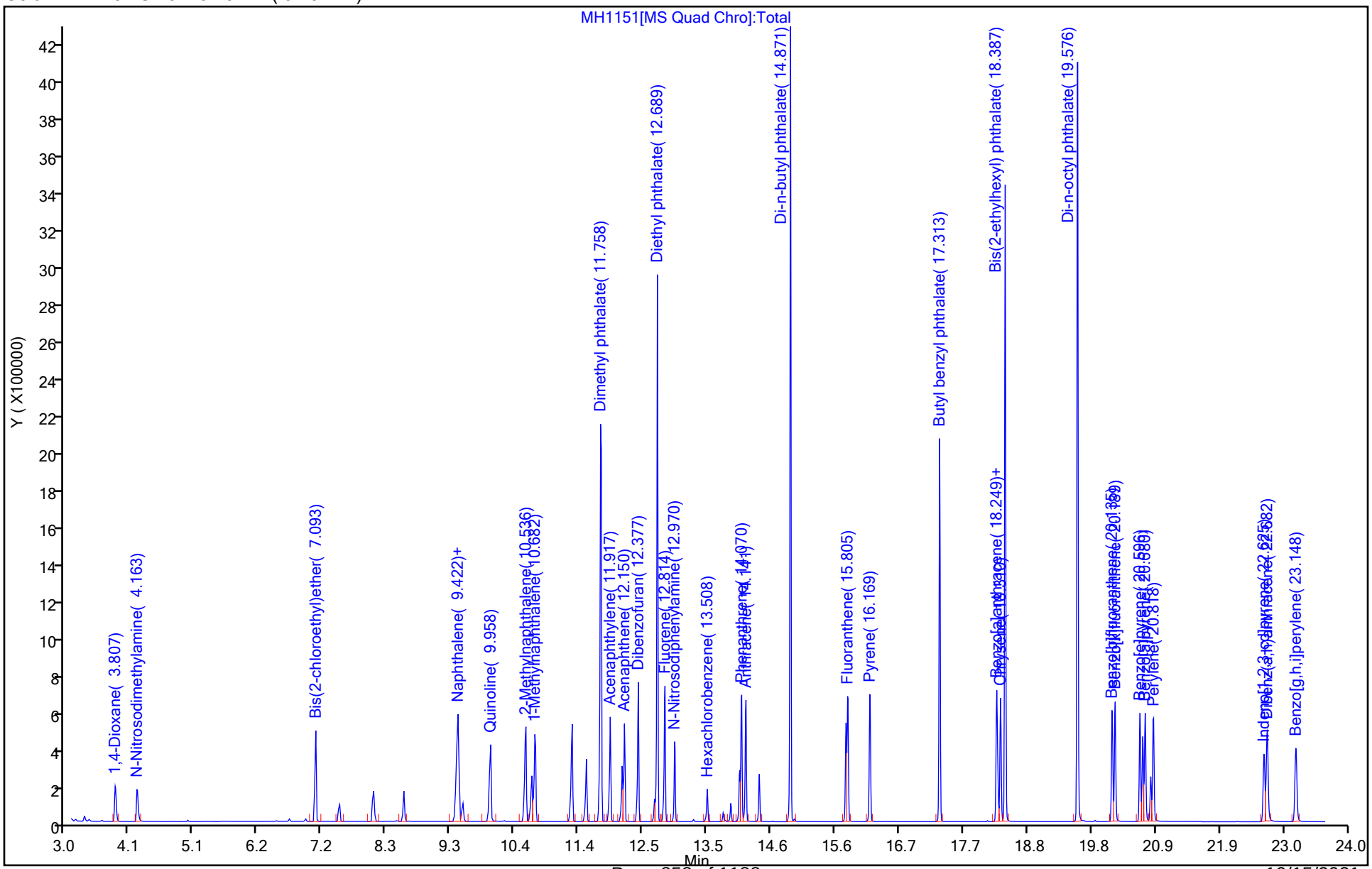
Report Date: 20-Aug-2021 12:20:16 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1151.D

Injection Date:	20-Aug-2021 06:11:49	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

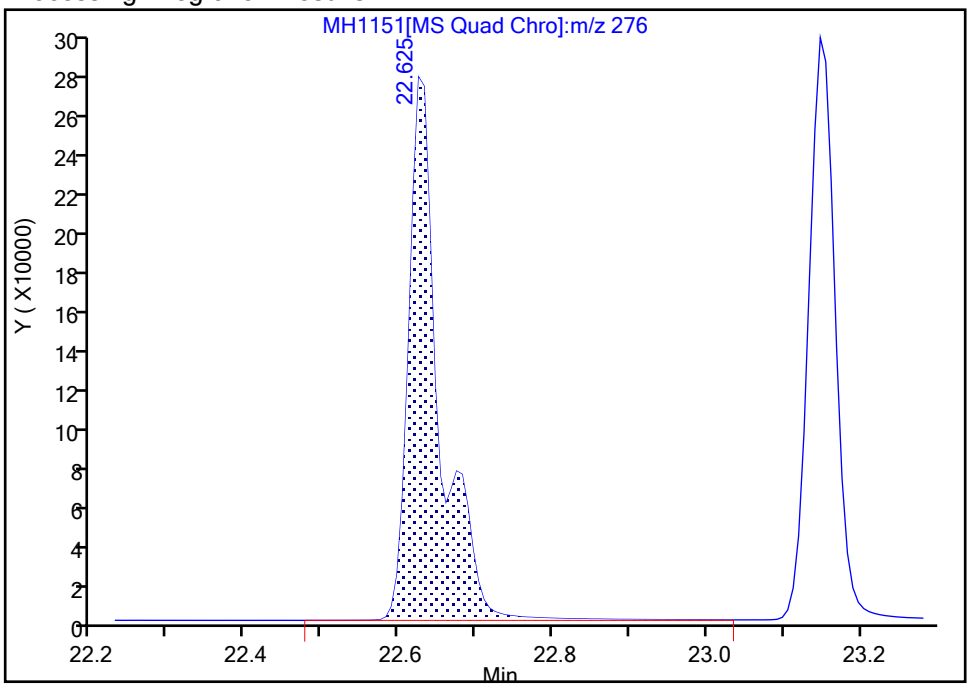
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Injection Date:	20-Aug-2021 06:11:49	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

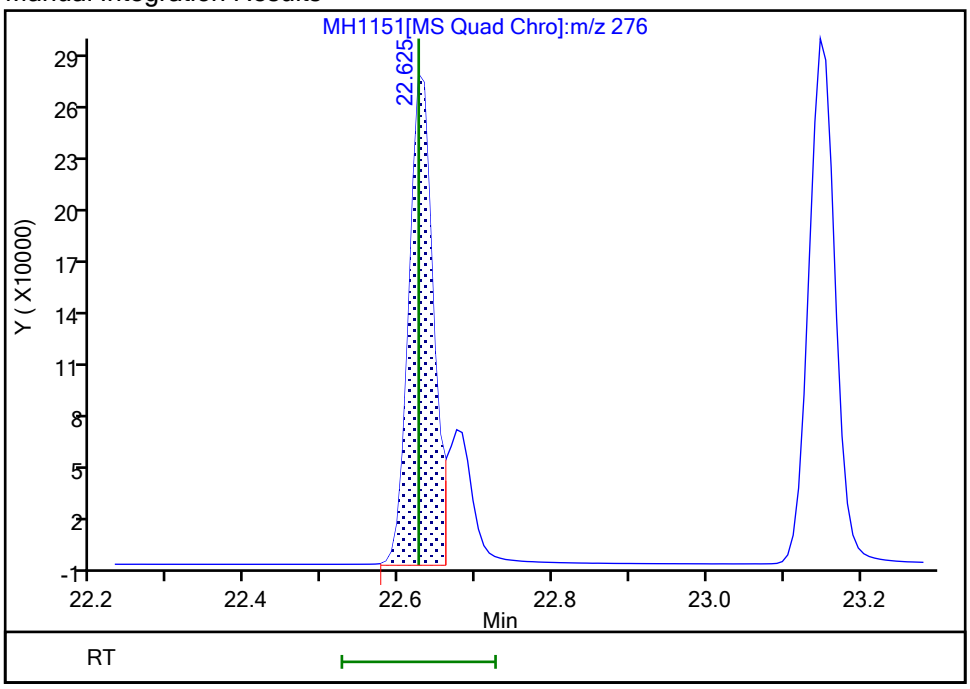
Processing Integration Results

RT: 22.63
Area: 770922
Amount: 0.500000
Amount Units: ug/ml



Manual Integration Results

RT: 22.63
Area: 598211
Amount: 0.530944
Amount Units: ug/ml



Reviewer: gamblerj, 20-Aug-2021 07:13:46

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1152.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Aug-2021 07:09:45 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0037357-003
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:20:19 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:15:11

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	3.807	3.814	-0.007	93	731109	2.50	2.36	
2 N-Nitrosodimethylamine	74	4.163	4.171	-0.008	99	914393	2.50	2.54	
3 Bis(2-chloroethyl)ether	93	7.093	7.093	0.000	95	1960471	2.50	2.35	
* 4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	90	115738	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.402	9.402	0.000	92	402769	0.2500	0.2500	
6 Naphthalene	128	9.422	9.422	0.000	94	4361371	2.50	2.33	
7 Quinoline	129	9.958	9.958	0.000	99	2614587	2.50	2.48	
8 2-Methylnaphthalene	142	10.536	10.536	0.000	95	2795635	2.50	2.42	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.633	0.000	100	1893663	2.50	2.43	
10 1-Methylnaphthalene	142	10.695	10.682	0.013	95	2576105	2.50	2.39	
11 Dimethyl phthalate	163	11.770	11.771	0.000	89	9751991	10.0	9.77	
12 Acenaphthylene	152	11.917	11.917	0.000	100	3997737	2.50	2.59	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	93	184055	0.2500	0.2500	
14 Acenaphthene	154	12.149	12.150	-0.001	93	2305633	2.50	2.46	
15 Dibenzofuran	168	12.377	12.377	0.000	100	3570167	2.50	2.45	
16 Diethyl phthalate	149	12.697	12.689	0.008	99	10134823	10.0	10.1	
17 Fluorene	166	12.814	12.814	0.000	95	2785542	2.50	2.53	
18 N-Nitrosodiphenylamine	169	12.978	12.978	0.000	98	1589848	2.50	2.29	
19 Hexachlorobenzene	284	13.508	13.508	0.000	97	845255	2.50	2.41	
* 20 Phenanthrene-d10	188	14.039	14.039	0.000	95	328635	0.2500	0.2500	
21 Phenanthrene	178	14.070	14.070	0.000	100	4100280	2.50	2.41	
22 Anthracene	178	14.141	14.141	0.000	100	4032326	2.50	2.59	
23 Di-n-butyl phthalate	149	14.877	14.871	0.006	100	15269735	10.0	8.51	
$ 24 Fluoranthene-d10 (Surr)	212	15.780	15.780	0.000	100	3395596	2.50	2.61	
25 Fluoranthene	202	15.811	15.811	0.000	100	4648269	2.50	2.59	
26 Pyrene	202	16.175	16.169	0.006	100	4859533	2.50	2.50	
27 Butyl benzyl phthalate	149	17.321	17.313	0.008	100	9071850	10.0	10.5	
28 Benzo[a]anthracene	228	18.249	18.249	0.000	100	4347394	2.50	2.59	
* 29 Chrysene-d12	240	18.272	18.264	0.008	81	292508	0.2500	0.2500	
30 Chrysene	228	18.318	18.310	0.008	100	4426070	2.50	2.37	

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	18.394	18.387	0.007	96	12456124	10.0	10.4	
32 Di-n-octyl phthalate	149	19.583	19.568	0.015	100	16237066	10.0	8.09	
33 Benzo[b]fluoranthene	252	20.143	20.135	0.008	100	4156414	2.50	2.41	
34 Benzo[k]fluoranthene	252	20.197	20.189	0.008	100	4524091	2.50	2.46	
35 Benzo[e]pyrene	252	20.603	20.596	0.007	100	4051780	2.50	2.41	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.649	20.642	0.007	99	2786468	2.50	2.58	
37 Benzo[a]pyrene	252	20.688	20.680	0.008	100	3994949	2.50	2.49	
* 38 Perylene-d12	264	20.780	20.772	0.008	99	303876	0.2500	0.2500	
39 Perylene	252	20.826	20.818	0.008	100	4071689	2.50	2.30	
40 Indeno[1,2,3-cd]pyrene	276	22.639	22.625	0.014	98	3515545	2.50	2.73	M
41 Dibenz(a,h)anthracene	278	22.689	22.682	0.007	98	3854578	2.50	2.58	
42 Benzo[g,h,i]perylene	276	23.169	23.148	0.021	100	3918174	2.50	2.49	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00011 Amount Added: 1.00 Units: mL

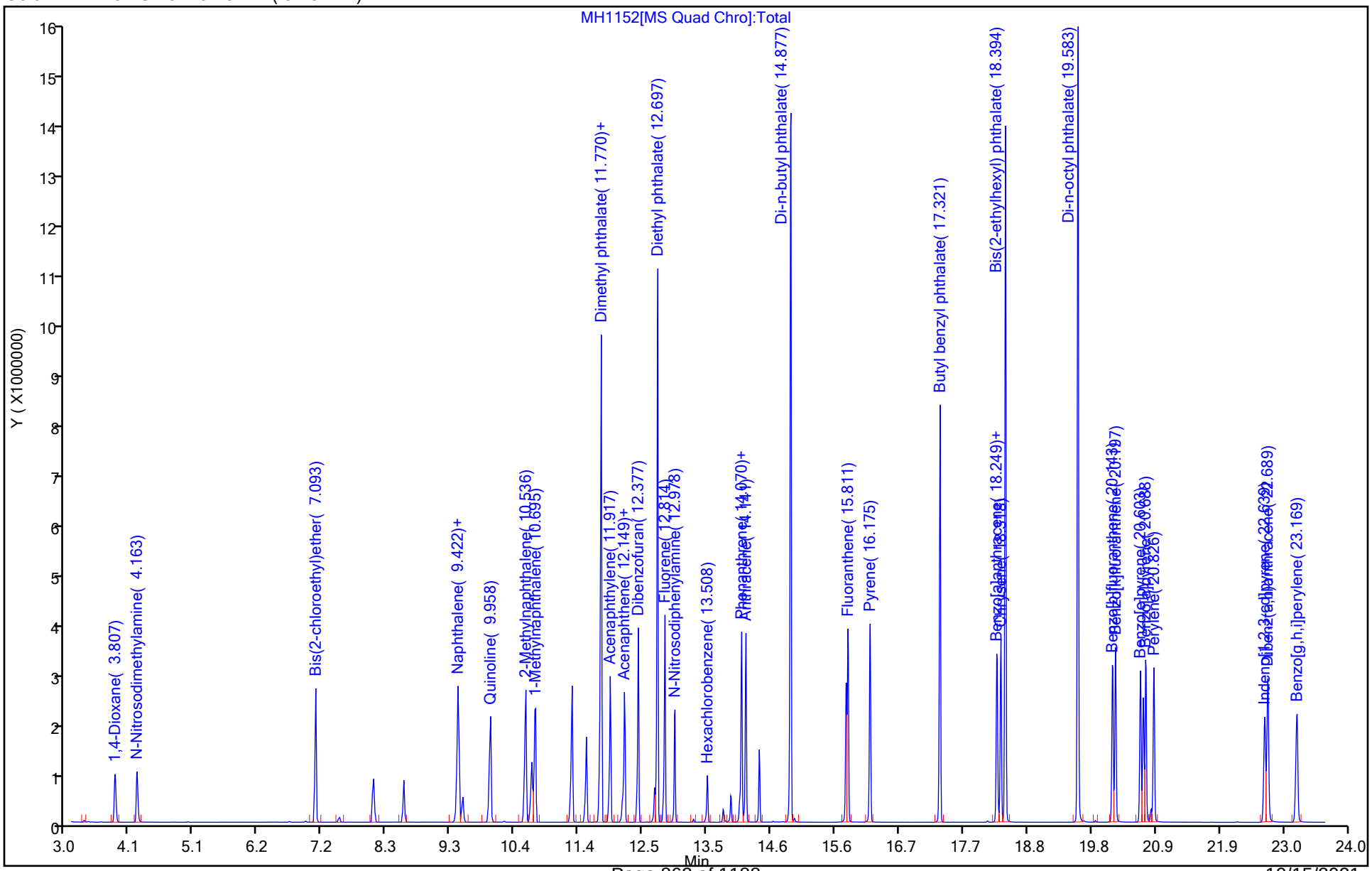
Report Date: 20-Aug-2021 12:20:20 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1152.D

Injection Date:	20-Aug-2021 07:09:45	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

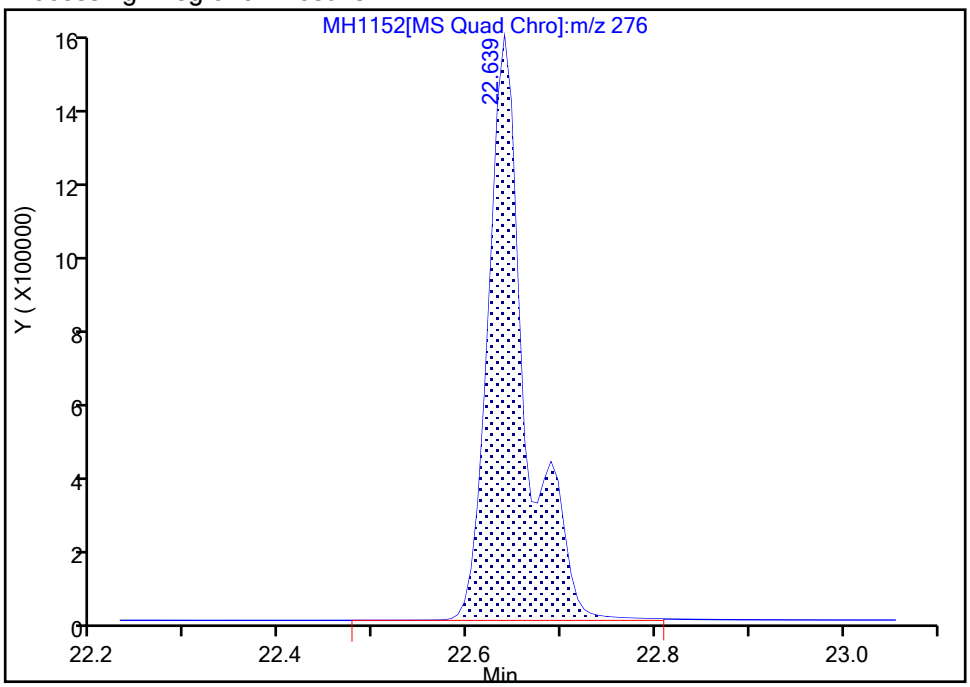
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Injection Date:	20-Aug-2021 07:09:45	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

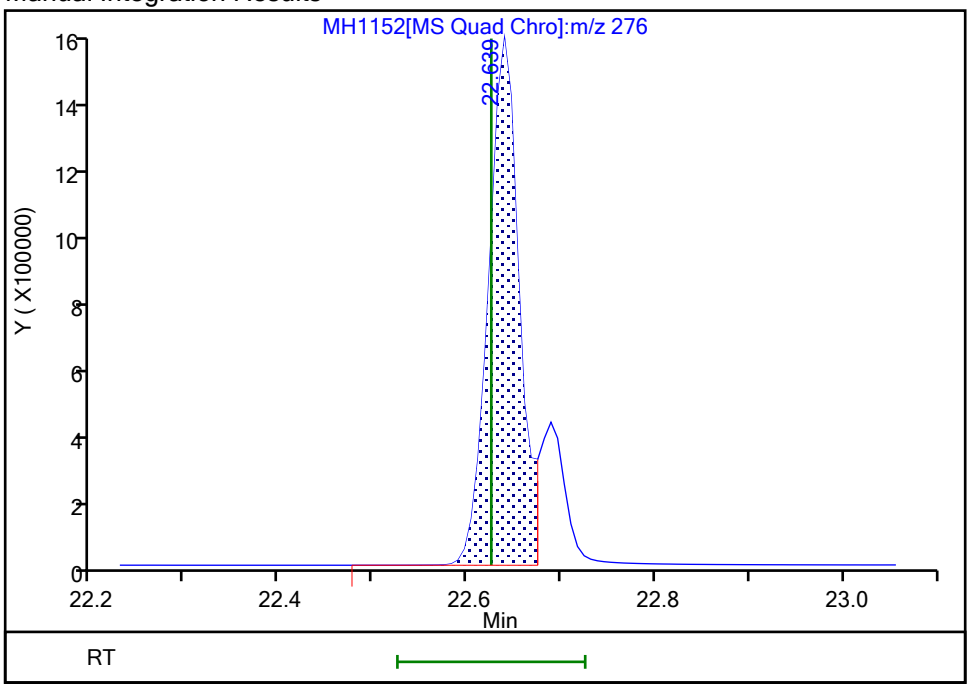
Processing Integration Results

RT: 22.64
Area: 4306206
Amount: 2.785011
Amount Units: ug/ml



Manual Integration Results

RT: 22.64
Area: 3515545
Amount: 2.725035
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:11:04

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\20210820-37357.b\MH1153.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Aug-2021 07:39:30 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0037357-004
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:20:23 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:15:35

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	3.814	3.814	0.000	92	304006	1.00	0.9800	
2 N-Nitrosodimethylamine	74	4.170	4.171	-0.001	98	372503	1.00	1.03	
3 Bis(2-chloroethyl)ether	93	7.093	7.093	0.000	95	794307	1.00	0.9787	
* 4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	89	115877	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.402	9.402	0.000	97	391193	0.2500	0.2500	
6 Naphthalene	128	9.422	9.422	0.000	94	1829164	1.00	1.01	
7 Quinoline	129	9.958	9.958	0.000	99	1057810	1.00	1.03	
8 2-Methylnaphthalene	142	10.536	10.536	0.000	95	1154593	1.00	1.03	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.633	0.000	100	789608	1.00	1.04	
10 1-Methylnaphthalene	142	10.682	10.682	0.000	96	1071571	1.00	1.02	
11 Dimethyl phthalate	163	11.770	11.771	0.000	78	5018999	5.00	5.03	
12 Acenaphthylene	152	11.917	11.917	0.000	100	1627520	1.00	1.06	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	88	183984	0.2500	0.2500	
14 Acenaphthene	154	12.149	12.150	-0.001	93	939048	1.00	1.00	
15 Dibenzofuran	168	12.377	12.377	0.000	100	1492466	1.00	1.02	
16 Diethyl phthalate	149	12.689	12.689	0.000	99	5202887	5.00	5.21	
17 Fluorene	166	12.806	12.814	-0.008	96	1146040	1.00	1.04	
18 N-Nitrosodiphenylamine	169	12.970	12.978	-0.008	98	666044	1.00	0.99	
19 Hexachlorobenzene	284	13.508	13.508	0.000	97	344413	1.00	1.01	
* 20 Phenanthrene-d10	188	14.031	14.039	-0.008	98	318491	0.2500	0.2500	
21 Phenanthrene	178	14.063	14.070	-0.008	100	1667633	1.00	1.01	
22 Anthracene	178	14.133	14.141	-0.008	100	1613479	1.00	1.07	
23 Di-n-butyl phthalate	149	14.871	14.871	0.000	100	9596412	5.00	5.52	
$ 24 Fluoranthene-d10 (Surr)	212	15.774	15.780	-0.006	100	1346086	1.00	1.07	
25 Fluoranthene	202	15.805	15.811	-0.006	100	1845900	1.00	1.06	
26 Pyrene	202	16.169	16.169	0.000	100	1915618	1.00	1.03	
27 Butyl benzyl phthalate	149	17.313	17.313	0.000	100	4527112	5.00	5.47	
28 Benzo[a]anthracene	228	18.241	18.249	-0.008	100	1704141	1.00	1.06	
* 29 Chrysene-d12	240	18.264	18.264	0.000	93	280198	0.2500	0.2500	
30 Chrysene	228	18.310	18.310	0.000	100	1801112	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	18.387	18.387	0.000	98	6373699	5.00	5.55	
32 Di-n-octyl phthalate	149	19.568	19.568	0.000	100	10875323	5.00	5.90	
33 Benzo[b]fluoranthene	252	20.135	20.135	0.000	100	1645784	1.00	1.04	
34 Benzo[k]fluoranthene	252	20.181	20.189	-0.008	100	1795470	1.00	1.06	
35 Benzo[e]pyrene	252	20.596	20.596	0.000	100	1622663	1.00	1.05	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.642	20.642	0.000	99	1093067	1.00	1.10	
37 Benzo[a]pyrene	252	20.680	20.680	0.000	100	1583083	1.00	1.07	
* 38 Perylene-d12	264	20.772	20.772	0.000	99	279423	0.2500	0.2500	
39 Perylene	252	20.810	20.818	-0.008	100	1619743	1.00	0.99	
40 Indeno[1,2,3-cd]pyrene	276	22.625	22.625	0.000	98	1339518	1.00	1.13	M
41 Dibenz(a,h)anthracene	278	22.675	22.682	-0.007	98	1511550	1.00	1.10	
42 Benzo[g,h,i]perylene	276	23.148	23.148	0.000	99	1551193	1.00	1.07	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00013 Amount Added: 1.00 Units: mL

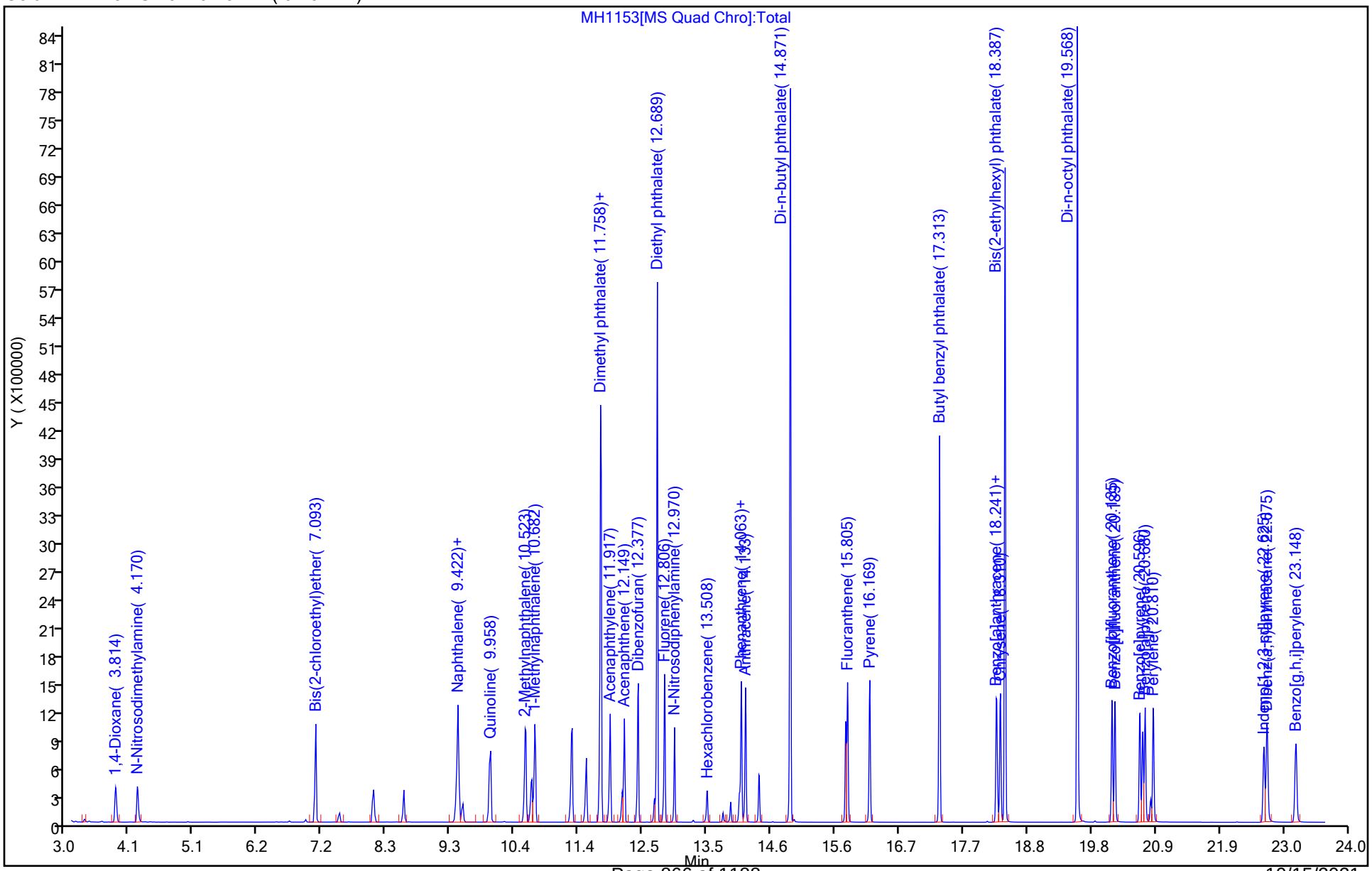
Report Date: 20-Aug-2021 12:20:23 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1153.D

Injection Date:	20-Aug-2021 07:39:30	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

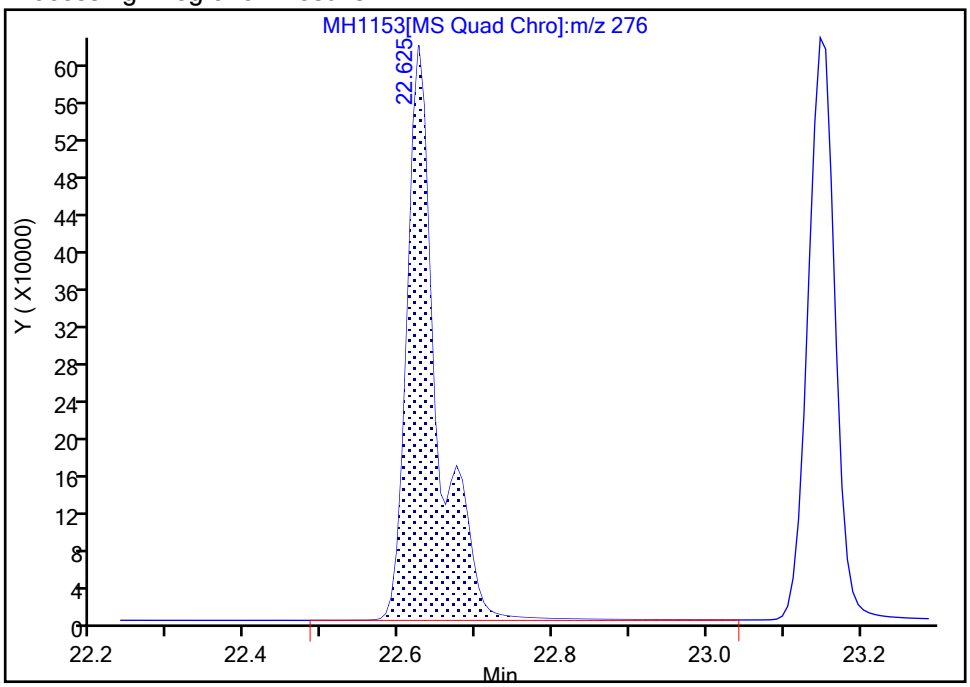
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Injection Date:	20-Aug-2021 07:39:30	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

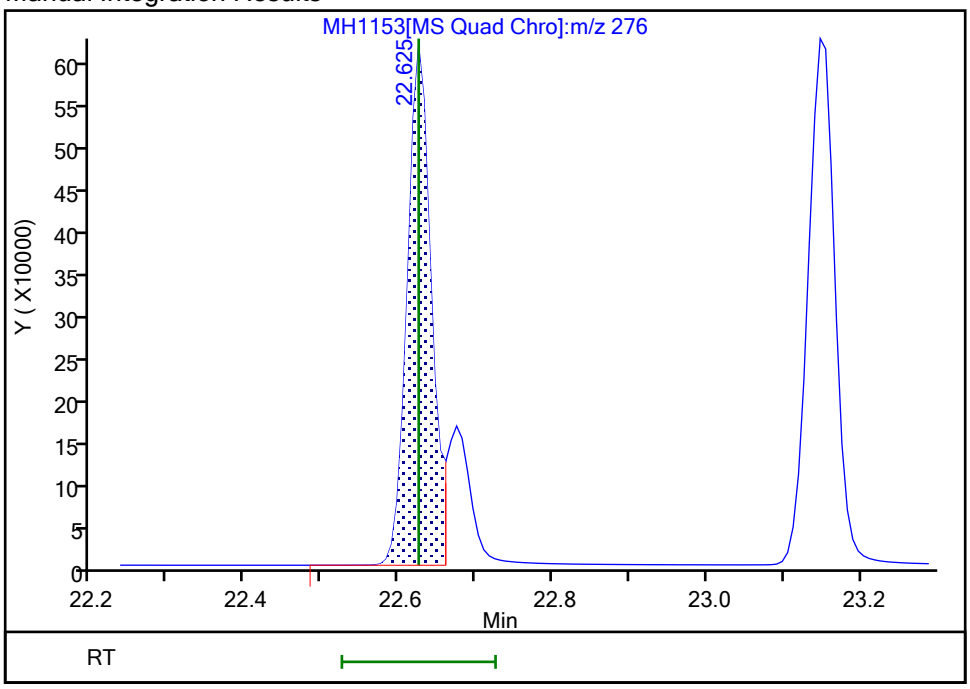
Processing Integration Results

RT: 22.63
Area: 1698623
Amount: 1.198640
Amount Units: ug/ml



Manual Integration Results

RT: 22.63
Area: 1339518
Amount: 1.129178
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:15:22

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\20210820-37357.b\MH1154.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Aug-2021 08:09:09 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0037357-005
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:20:26 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:15:59

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	3.814	3.814	0.000	93	32210	0.1000	0.1000	
2 N-Nitrosodimethylamine	74	4.178	4.171	0.007	99	35835	0.1000	0.0956	
3 Bis(2-chloroethyl)ether	93	7.093	7.093	0.000	95	77002	0.1000	0.0937	
* 4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	90	120342	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.402	9.402	0.000	96	396185	0.2500	0.2500	
6 Naphthalene	128	9.422	9.422	0.000	94	181750	0.1000	0.0988	
7 Quinoline	129	9.958	9.958	0.000	100	101161	0.1000	0.0974	
8 2-Methylnaphthalene	142	10.523	10.536	-0.013	96	109275	0.1000	0.0962	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.633	0.000	100	75817	0.1000	0.0989	
10 1-Methylnaphthalene	142	10.682	10.682	0.000	96	104317	0.1000	0.0983	
11 Dimethyl phthalate	163	11.758	11.771	-0.012	88	1061849	1.00	1.03	
12 Acenaphthylene	152	11.917	11.917	0.000	100	148009	0.1000	0.0934	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	87	189196	0.2500	0.2500	
14 Acenaphthene	154	12.149	12.150	-0.001	94	91525	0.1000	0.0950	
15 Dibenzofuran	168	12.376	12.377	-0.001	100	144971	0.1000	0.0968	
16 Diethyl phthalate	149	12.689	12.689	0.000	99	1051941	1.00	1.02	
17 Fluorene	166	12.806	12.814	-0.008	95	108817	0.1000	0.0961	
18 N-Nitrosodiphenylamine	169	12.970	12.978	-0.008	98	64512	0.1000	0.0941	
19 Hexachlorobenzene	284	13.500	13.508	-0.008	96	33632	0.1000	0.0969	
* 20 Phenanthrene-d10	188	14.031	14.039	-0.008	96	324971	0.2500	0.2500	
21 Phenanthrene	178	14.062	14.070	-0.008	100	161929	0.1000	0.0961	
22 Anthracene	178	14.133	14.141	-0.008	100	144958	0.1000	0.0940	
23 Di-n-butyl phthalate	149	14.865	14.871	-0.006	100	1857433	1.00	1.05	
$ 24 Fluoranthene-d10 (Surr)	212	15.774	15.780	-0.006	100	120325	0.1000	0.0935	
25 Fluoranthene	202	15.805	15.811	-0.006	100	168806	0.1000	0.0950	
26 Pyrene	202	16.169	16.169	0.000	100	174177	0.1000	0.0954	
27 Butyl benzyl phthalate	149	17.305	17.313	-0.008	100	824979	1.00	1.02	
28 Benzo[a]anthracene	228	18.241	18.249	-0.008	100	147487	0.1000	0.0933	
* 29 Chrysene-d12	240	18.256	18.264	-0.008	63	274940	0.2500	0.2500	
30 Chrysene	228	18.302	18.310	-0.008	100	171336	0.1000	0.0977	

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	18.379	18.387	-0.008	98	1153831	1.00	1.02	
32 Di-n-octyl phthalate	149	19.568	19.568	0.000	100	1933077	1.00	1.08	
33 Benzo[b]fluoranthene	252	20.135	20.135	0.000	100	148394	0.1000	0.0963	
34 Benzo[k]fluoranthene	252	20.181	20.189	-0.008	100	157913	0.1000	0.0960	
35 Benzo[e]pyrene	252	20.588	20.596	-0.008	100	144638	0.1000	0.0963	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.634	20.642	-0.008	98	91898	0.1000	0.0951	
37 Benzo[a]pyrene	252	20.672	20.680	-0.008	100	140990	0.1000	0.0981	
* 38 Perylene-d12	264	20.764	20.772	-0.008	98	271623	0.2500	0.2500	
39 Perylene	252	20.810	20.818	-0.008	100	149768	0.1000	0.0945	
40 Indeno[1,2,3-cd]pyrene	276	22.618	22.625	-0.007	98	106084	0.1000	0.0920	M
41 Dibenz(a,h)anthracene	278	22.674	22.682	-0.008	99	127345	0.1000	0.0954	
42 Benzo[g,h,i]perylene	276	23.141	23.148	-0.007	99	134914	0.1000	0.0957	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00011 Amount Added: 1.00 Units: mL

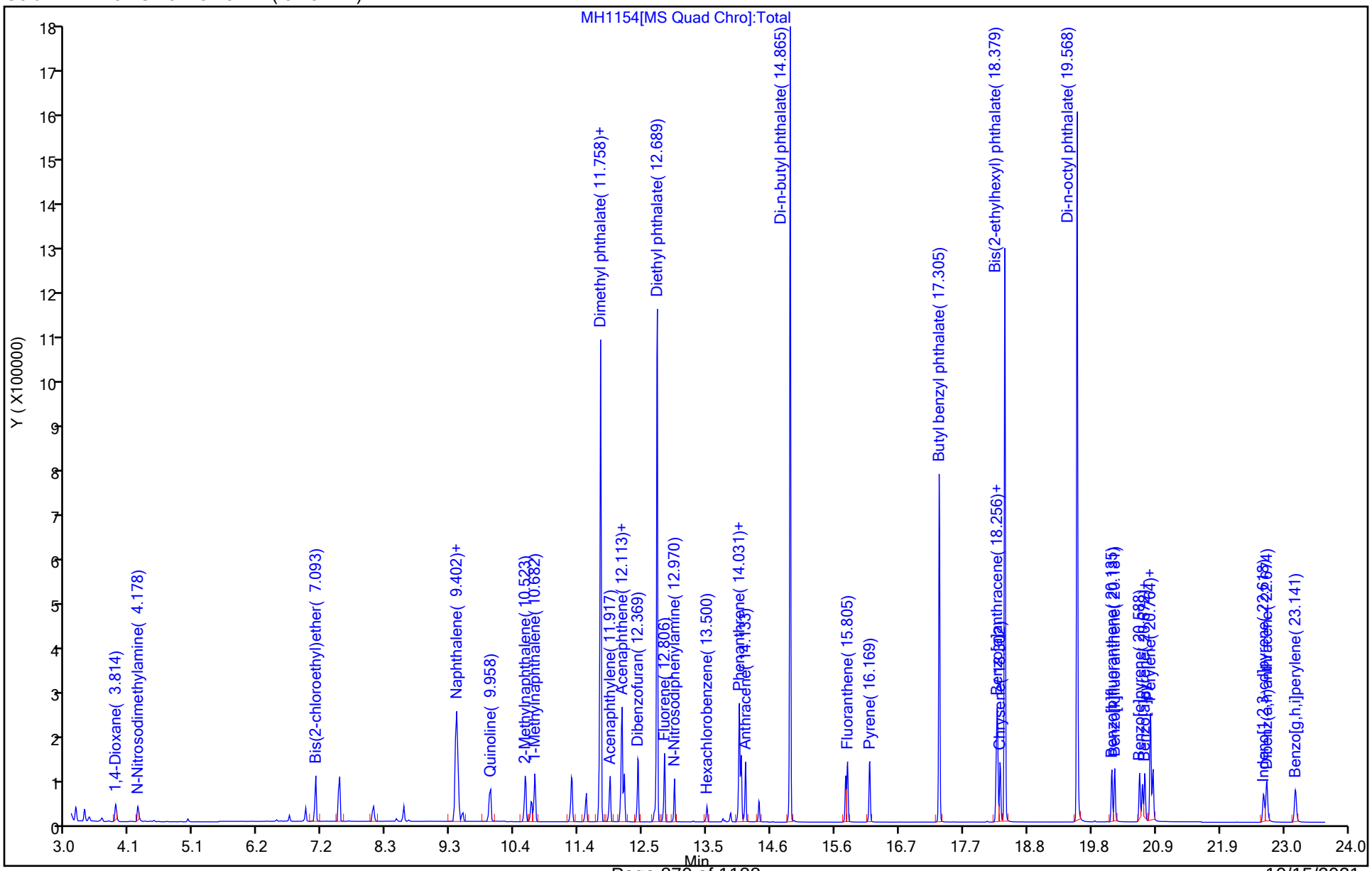
Report Date: 20-Aug-2021 12:20:27 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1154.D

Injection Date:	20-Aug-2021 08:09:09	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

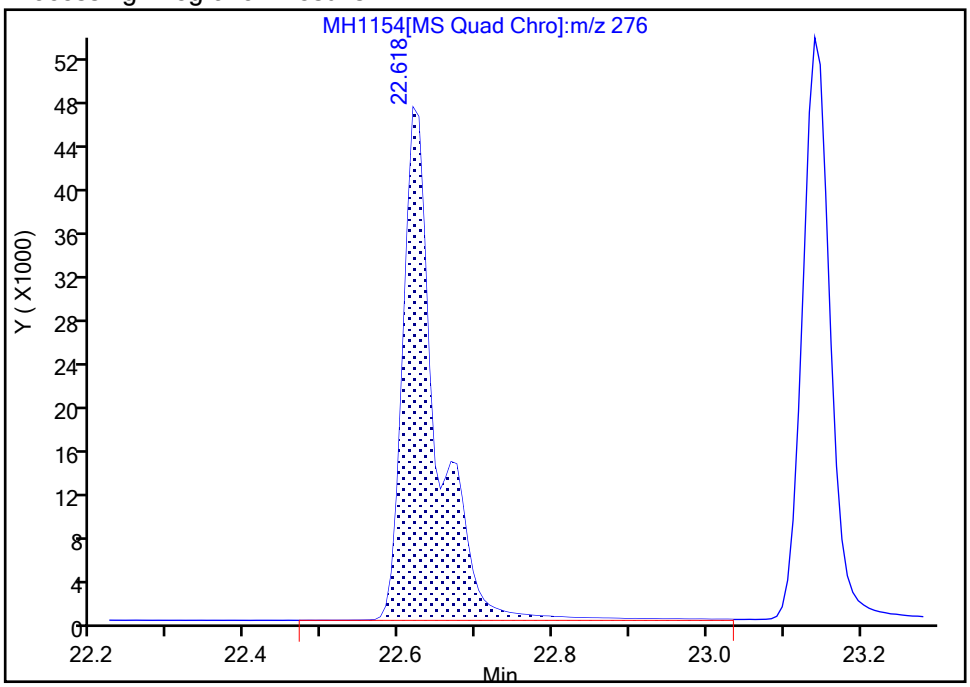
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1154.D				
Injection Date:	20-Aug-2021 08:09:09	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

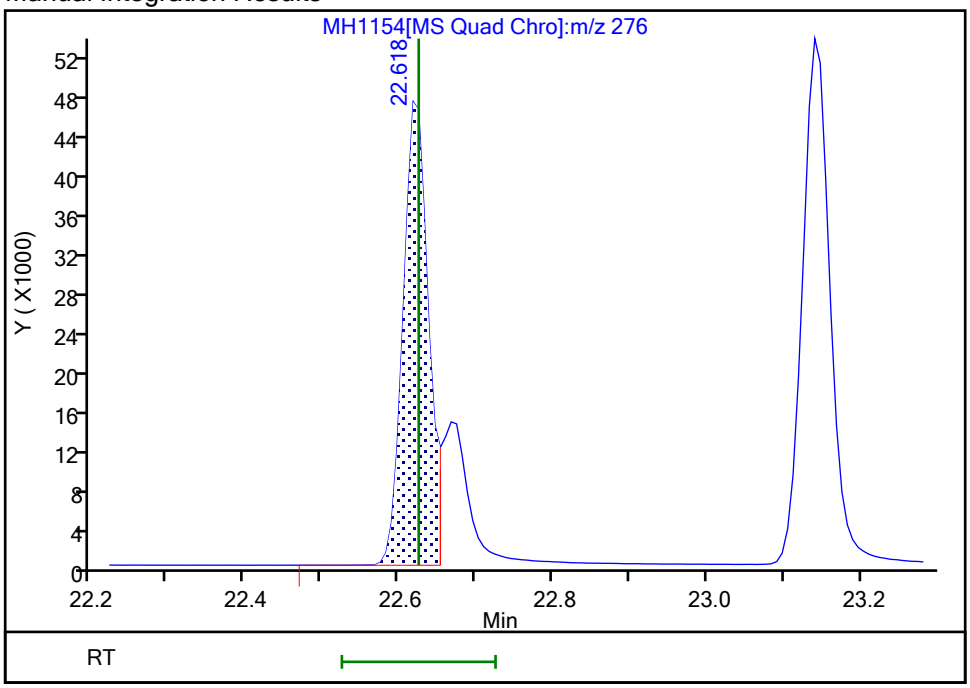
Processing Integration Results

RT: 22.62
Area: 143842
Amount: 0.110181
Amount Units: ug/ml



Manual Integration Results

RT: 22.62
Area: 106084
Amount: 0.091994
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:15:56

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\20210820-37357.b\MH1155.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Aug-2021 08:38:50 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0037357-006
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:20:29 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:16:45

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	3.822	3.814	0.008	94	17965	0.0500	0.0559	
2 N-Nitrosodimethylamine	74	4.185	4.171	0.014	99	18820	0.0500	0.0503	
3 Bis(2-chloroethyl)ether	93	7.093	7.093	0.000	95	41076	0.0500	0.0500	
* 4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	89	120029	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.402	9.402	0.000	94	395709	0.2500	0.2500	
6 Naphthalene	128	9.422	9.422	0.000	94	95328	0.0500	0.0519	
7 Quinoline	129	9.958	9.958	0.000	99	52712	0.0500	0.0508	
8 2-Methylnaphthalene	142	10.523	10.536	-0.013	96	57683	0.0500	0.0508	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.633	0.000	100	39032	0.0500	0.0510	
10 1-Methylnaphthalene	142	10.682	10.682	0.000	97	54819	0.0500	0.0517	
11 Dimethyl phthalate	163	11.758	11.771	-0.012	89	526702	0.5000	0.5168	
12 Acenaphthylene	152	11.917	11.917	0.000	100	77024	0.0500	0.0489	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	88	187939	0.2500	0.2500	
14 Acenaphthene	154	12.149	12.150	-0.001	93	48045	0.0500	0.0502	
15 Dibenzofuran	168	12.376	12.377	-0.001	100	75295	0.0500	0.0506	
16 Diethyl phthalate	149	12.689	12.689	0.000	99	516670	0.5000	0.5063	
17 Fluorene	166	12.806	12.814	-0.008	96	55645	0.0500	0.0495	
18 N-Nitrosodiphenylamine	169	12.970	12.978	-0.008	97	32850	0.0500	0.0487	
19 Hexachlorobenzene	284	13.508	13.508	0.000	96	17346	0.0500	0.0508	
* 20 Phenanthrene-d10	188	14.031	14.039	-0.008	95	319363	0.2500	0.2500	
21 Phenanthrene	178	14.062	14.070	-0.008	100	83994	0.0500	0.0507	
22 Anthracene	178	14.133	14.141	-0.008	100	72727	0.0500	0.0480	
23 Di-n-butyl phthalate	149	14.865	14.871	-0.006	100	880265	0.5000	0.5048	
$ 24 Fluoranthene-d10 (Surr)	212	15.774	15.780	-0.006	100	60373	0.0500	0.0477	
25 Fluoranthene	202	15.805	15.811	-0.006	100	84536	0.0500	0.0484	
26 Pyrene	202	16.168	16.169	-0.001	100	86553	0.0500	0.0491	
27 Butyl benzyl phthalate	149	17.305	17.313	-0.008	100	372253	0.5000	0.4753	
28 Benzo[a]anthracene	228	18.241	18.249	-0.008	100	71999	0.0500	0.0472	
* 29 Chrysene-d12	240	18.256	18.264	-0.008	59	265204	0.2500	0.2500	
30 Chrysene	228	18.302	18.310	-0.008	100	85622	0.0500	0.0506	

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	18.379	18.387	-0.008	98	512836	0.5000	0.4722	
32 Di-n-octyl phthalate	149	19.568	19.568	0.000	100	833492	0.5000	0.4857	
33 Benzo[b]fluoranthene	252	20.135	20.135	0.000	100	72163	0.0500	0.0489	
34 Benzo[k]fluoranthene	252	20.181	20.189	-0.008	100	78195	0.0500	0.0497	
35 Benzo[e]pyrene	252	20.588	20.596	-0.008	100	70686	0.0500	0.0492	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.634	20.642	-0.008	98	43823	0.0500	0.0474	
37 Benzo[a]pyrene	252	20.672	20.680	-0.008	100	67642	0.0500	0.0492	
* 38 Perylene-d12	264	20.764	20.772	-0.008	98	259953	0.2500	0.2500	
39 Perylene	252	20.810	20.818	-0.008	100	77397	0.0500	0.0510	
40 Indeno[1,2,3-cd]pyrene	276	22.618	22.625	-0.007	98	49857	0.0500	0.0452	M
41 Dibenz(a,h)anthracene	278	22.674	22.682	-0.008	99	61440	0.0500	0.0481	
42 Benzo[g,h,i]perylene	276	23.141	23.148	-0.007	99	65242	0.0500	0.0484	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00014 Amount Added: 1.00 Units: mL

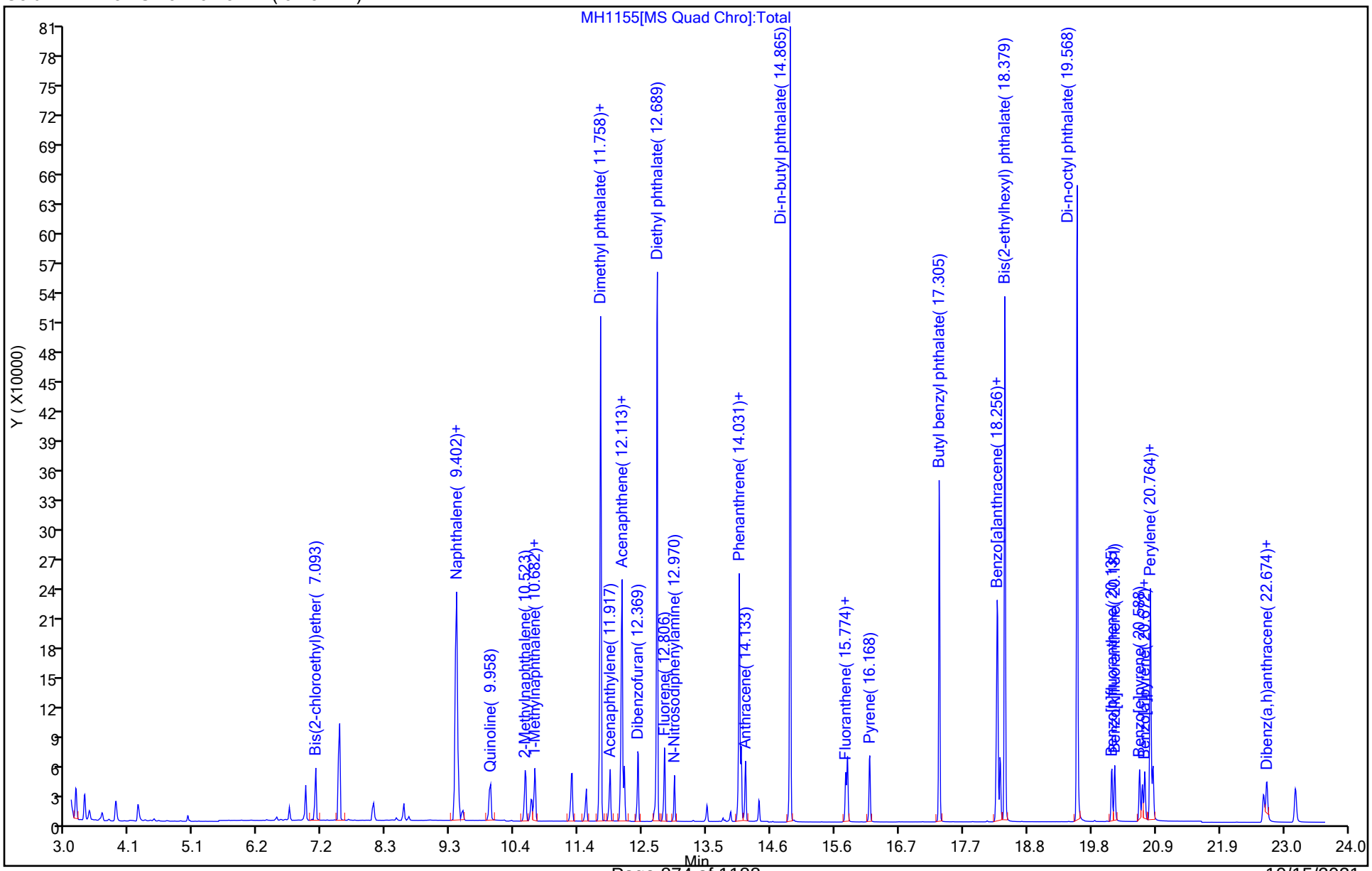
Report Date: 20-Aug-2021 12:20:30 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1155.D

Injection Date:	20-Aug-2021 08:38:50	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

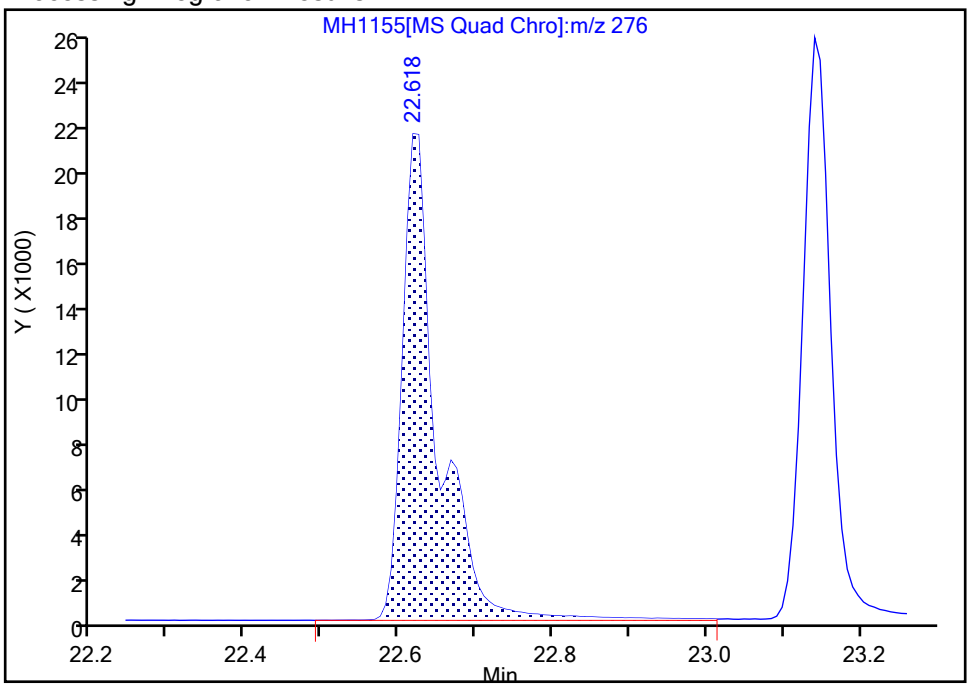
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Injection Date:	20-Aug-2021 08:38:50	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

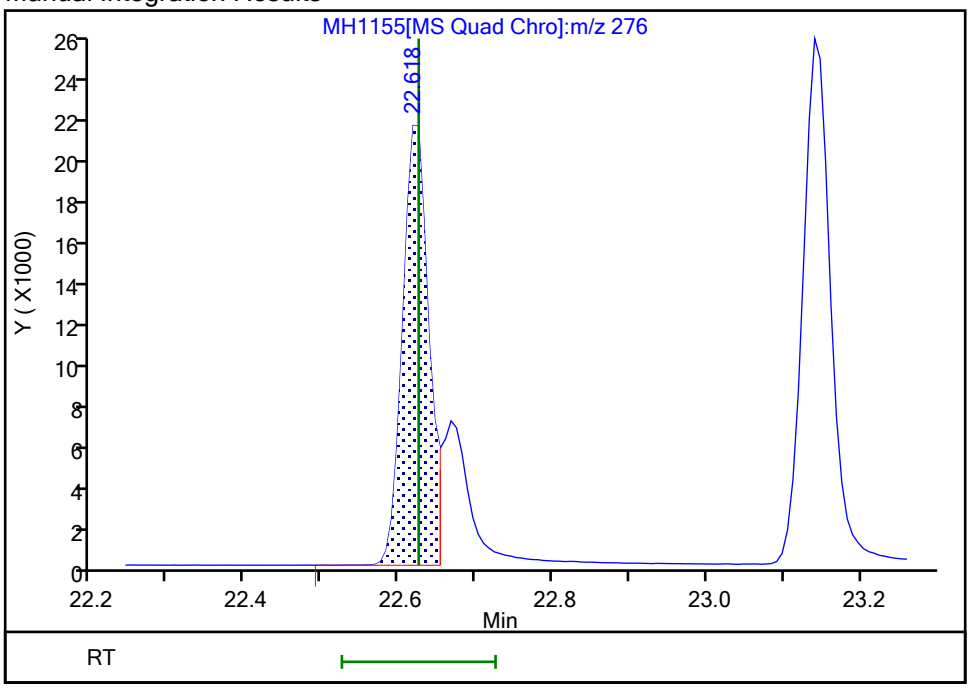
Processing Integration Results

RT: 22.62
Area: 68944
Amount: 0.057308
Amount Units: ug/ml



Manual Integration Results

RT: 22.62
Area: 49857
Amount: 0.045176
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:16:42

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\20210820-37357.b\MH1156.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Aug-2021 09:08:31 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0037357-007
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:20:32 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:17:21

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	3.822	3.822	0.000	93	3441	0.0100	0.0100	M
2 N-Nitrosodimethylamine	74	4.193	4.193	0.000	100	3957	0.0100	0.0099	
3 Bis(2-chloroethyl)ether	93	7.093	7.093	0.000	95	10360	0.0100	0.0117	
* 4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	90	127940	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.402	9.402	0.000	93	425519	0.2500	0.2500	
6 Naphthalene	128	9.422	9.422	0.000	94	20895	0.0100	0.0106	
7 Quinoline	129	9.958	9.958	0.000	99	10729	0.0100	0.009617	
8 2-Methylnaphthalene	142	10.523	10.523	0.000	95	12412	0.0100	0.0102	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.633	0.000	100	8017	0.0100	0.009734	
10 1-Methylnaphthalene	142	10.682	10.682	0.000	96	11560	0.0100	0.0101	
11 Dimethyl phthalate	163	11.758	11.758	0.000	89	253962	0.2500	0.2367	
12 Acenaphthylene	152	11.917	11.917	0.000	100	16449	0.0100	0.0099	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	86	197805	0.2500	0.2500	
14 Acenaphthene	154	12.149	12.149	0.000	93	10996	0.0100	0.0109	
15 Dibenzofuran	168	12.376	12.376	0.000	100	16190	0.0100	0.0103	
16 Diethyl phthalate	149	12.689	12.689	0.000	99	242478	0.2500	0.2258	
17 Fluorene	166	12.806	12.806	0.000	95	11872	0.0100	0.0100	
18 N-Nitrosodiphenylamine	169	12.970	12.970	0.000	97	8494	0.0100	0.0123	
19 Hexachlorobenzene	284	13.500	13.500	0.000	97	3700	0.0100	0.0106	
* 20 Phenanthrene-d10	188	14.031	14.031	0.000	95	327880	0.2500	0.2500	
21 Phenanthrene	178	14.062	14.062	0.000	100	18226	0.0100	0.0107	
22 Anthracene	178	14.133	14.133	0.000	100	15212	0.0100	0.009779	
23 Di-n-butyl phthalate	149	14.865	14.865	0.000	100	400333	0.2500	0.2236	
$ 24 Fluoranthene-d10 (Surr)	212	15.774	15.774	0.000	100	12661	0.0100	0.009750	
25 Fluoranthene	202	15.805	15.805	0.000	100	17288	0.0100	0.009641	
26 Pyrene	202	16.169	16.169	0.000	100	18311	0.0100	0.0103	
27 Butyl benzyl phthalate	149	17.305	17.305	0.000	100	160300	0.2500	0.2037	
28 Benzo[a]anthracene	228	18.241	18.241	0.000	100	15527	0.0100	0.0101	
* 29 Chrysene-d12	240	18.256	18.256	0.000	57	266453	0.2500	0.2500	
30 Chrysene	228	18.302	18.302	0.000	100	18439	0.0100	0.0108	

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	18.379	18.379	0.000	98	216696	0.2500	0.1986	
32 Di-n-octyl phthalate	149	19.568	19.568	0.000	100	336240	0.2500	0.1993	
33 Benzo[b]fluoranthene	252	20.135	20.135	0.000	100	14469	0.0100	0.0100	
34 Benzo[k]fluoranthene	252	20.181	20.181	0.000	100	15424	0.0100	0.0100	
35 Benzo[e]pyrene	252	20.588	20.588	0.000	100	14262	0.0100	0.0101	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.634	20.634	0.000	98	8279	0.0100	0.009106	
37 Benzo[a]pyrene	252	20.672	20.672	0.000	100	12481	0.0100	0.009233	
* 38 Perylene-d12	264	20.772	20.772	0.000	100	255600	0.2500	0.2500	
39 Perylene	252	20.810	20.810	0.000	100	17051	0.0100	0.0114	
40 Indeno[1,2,3-cd]pyrene	276	22.618	22.618	0.000	98	9717	0.0100	0.008955	M
41 Dibenz(a,h)anthracene	278	22.674	22.674	0.000	99	11356	0.0100	0.009039	
42 Benzo[g,h,i]perylene	276	23.141	23.141	0.000	99	12998	0.0100	0.009801	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00013 Amount Added: 1.00 Units: mL

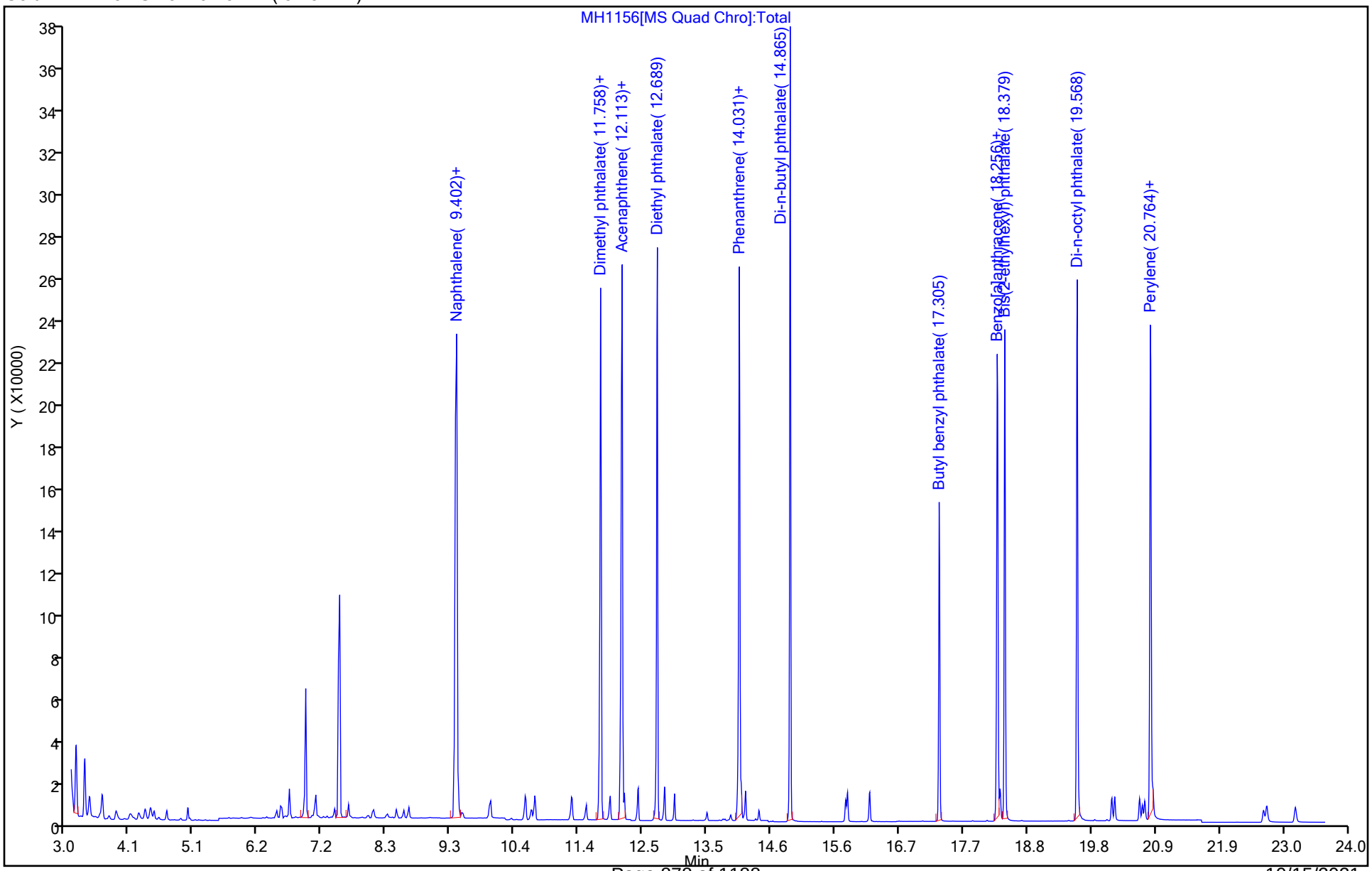
Report Date: 20-Aug-2021 12:20:33 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Injection Date:	20-Aug-2021 09:08:31	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

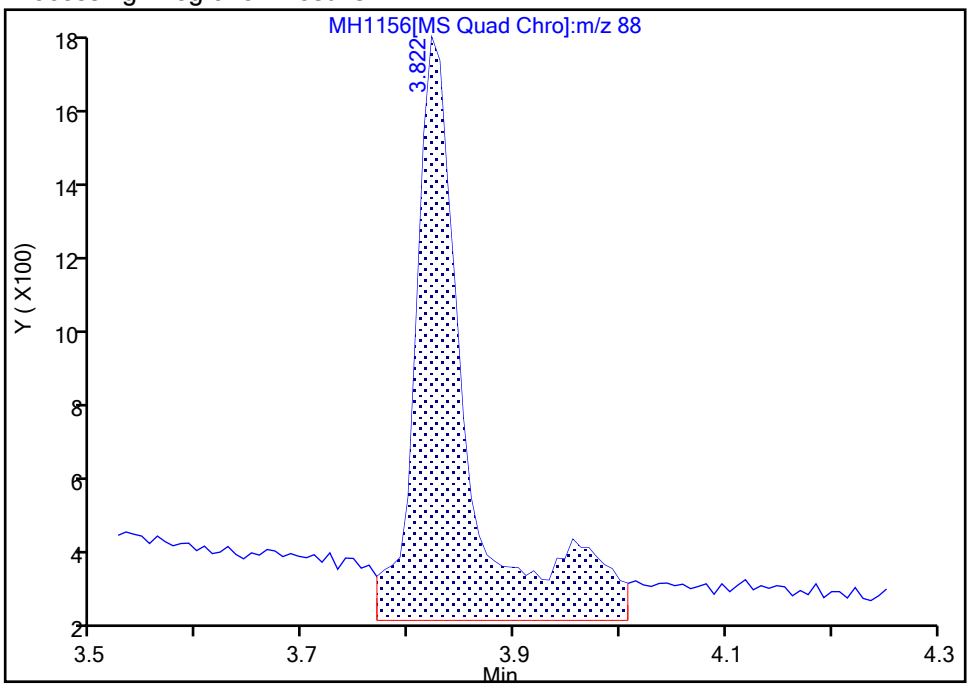
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Injection Date:	20-Aug-2021 09:08:31	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

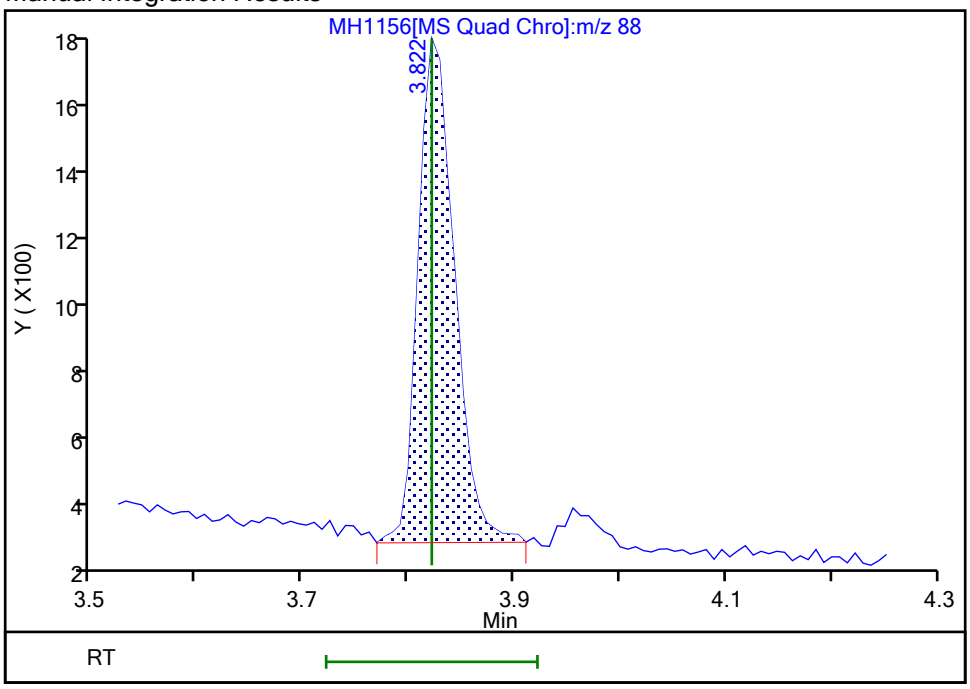
Processing Integration Results

RT: 3.82
Area: 5311
Amount: 0.005127
Amount Units: ug/ml



Manual Integration Results

RT: 3.82
Area: 3441
Amount: 0.010046
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:17:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

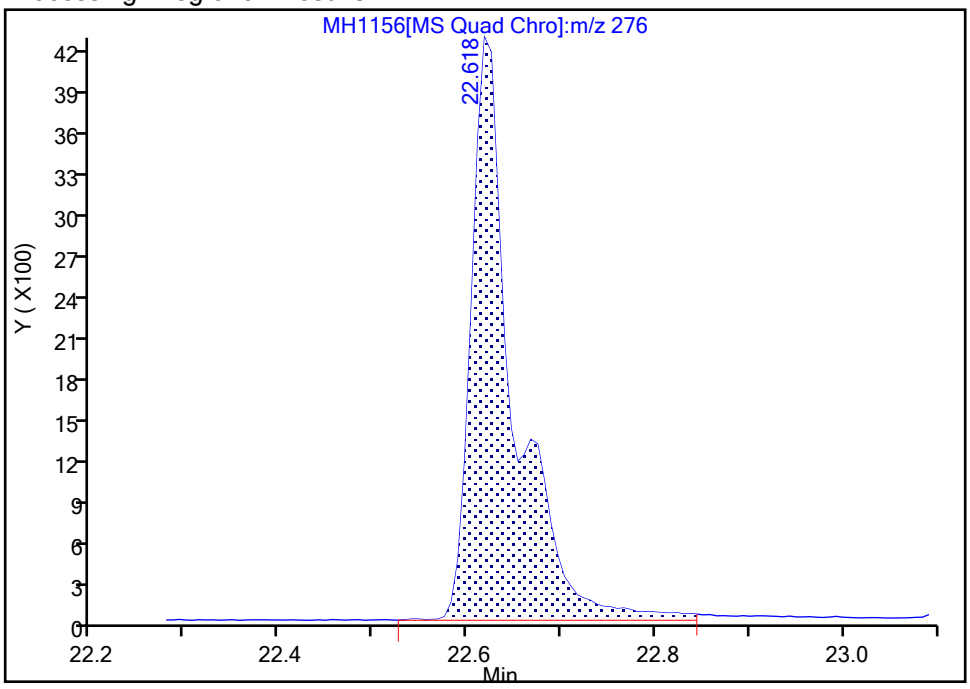
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Injection Date:	20-Aug-2021 09:08:31	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

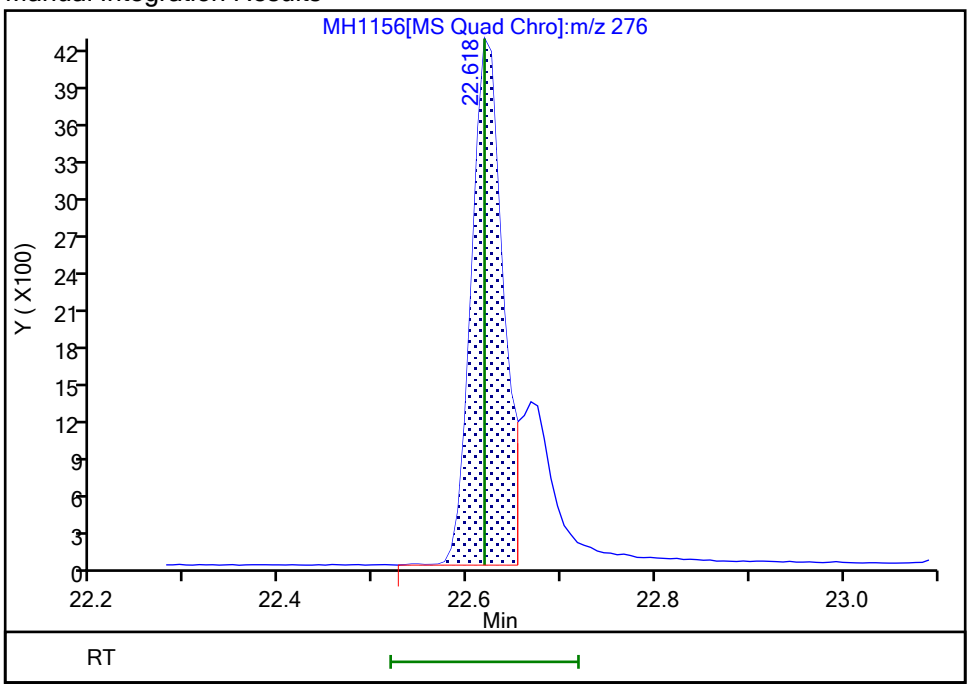
Processing Integration Results

RT: 22.62
Area: 13384
Amount: 0.011676
Amount Units: ug/ml



Manual Integration Results

RT: 22.62
Area: 9717
Amount: 0.008955
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:16:53

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

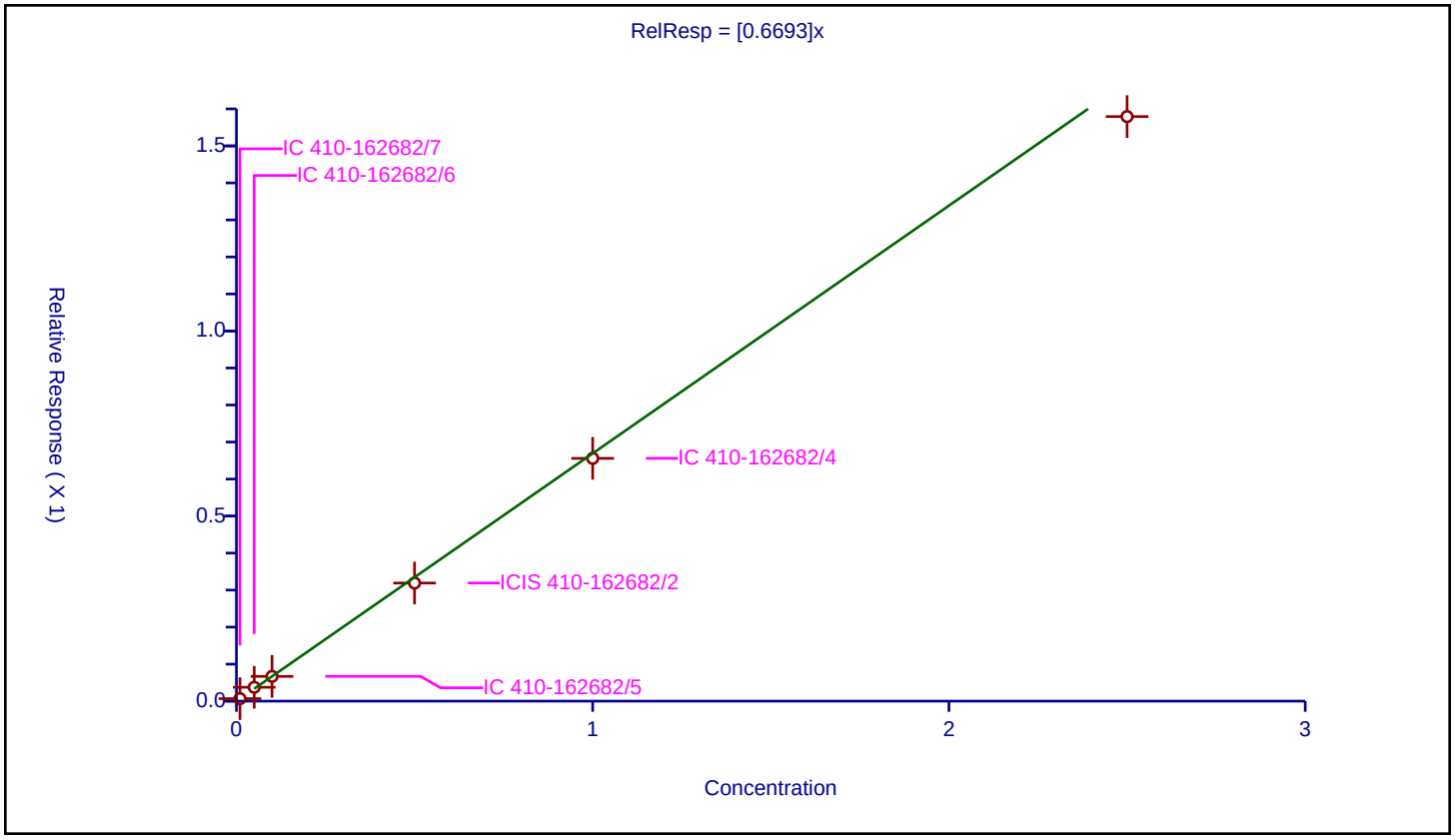
Curve Coefficients

Intercept:	0
Slope:	0.6693

Error Coefficients

Standard Error:	360000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.006724	0.25	127940.0	0.672385	Y
2	IC 410-162682/6	0.05	0.037418	0.25	120029.0	0.748361	Y
3	IC 410-162682/5	0.1	0.066913	0.25	120342.0	0.669135	Y
4	ICIS 410-162682/2	0.5	0.319106	0.25	112248.0	0.638212	Y
5	IC 410-162682/4	1.0	0.655881	0.25	115877.0	0.655881	Y
6	IC 410-162682/3	2.5	1.579233	0.25	115738.0	0.631693	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

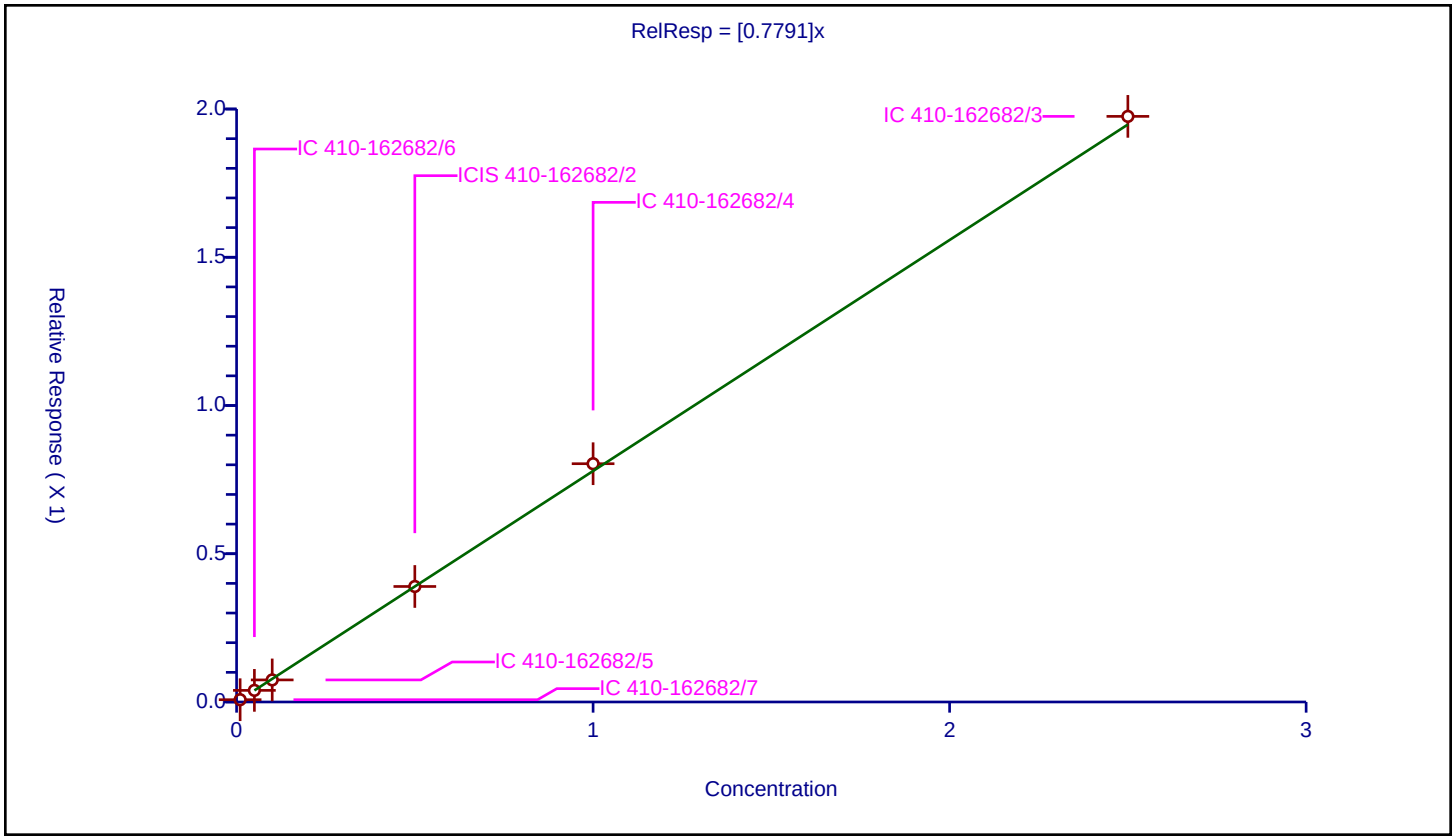
Curve Coefficients

Intercept:	0
Slope:	0.7791

Error Coefficients

Standard Error:	449000
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 410-162682/7	0.01	0.007732	0.25	127940.0	0.773214	Y
2	IC 410-162682/6	0.05	0.039199	0.25	120029.0	0.783977	Y
3	IC 410-162682/5	0.1	0.074444	0.25	120342.0	0.744441	Y
4	ICIS 410-162682/2	0.5	0.389568	0.25	112248.0	0.779136	Y
5	IC 410-162682/4	1.0	0.80366	0.25	115877.0	0.80366	Y
6	IC 410-162682/3	2.5	1.975136	0.25	115738.0	0.790054	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

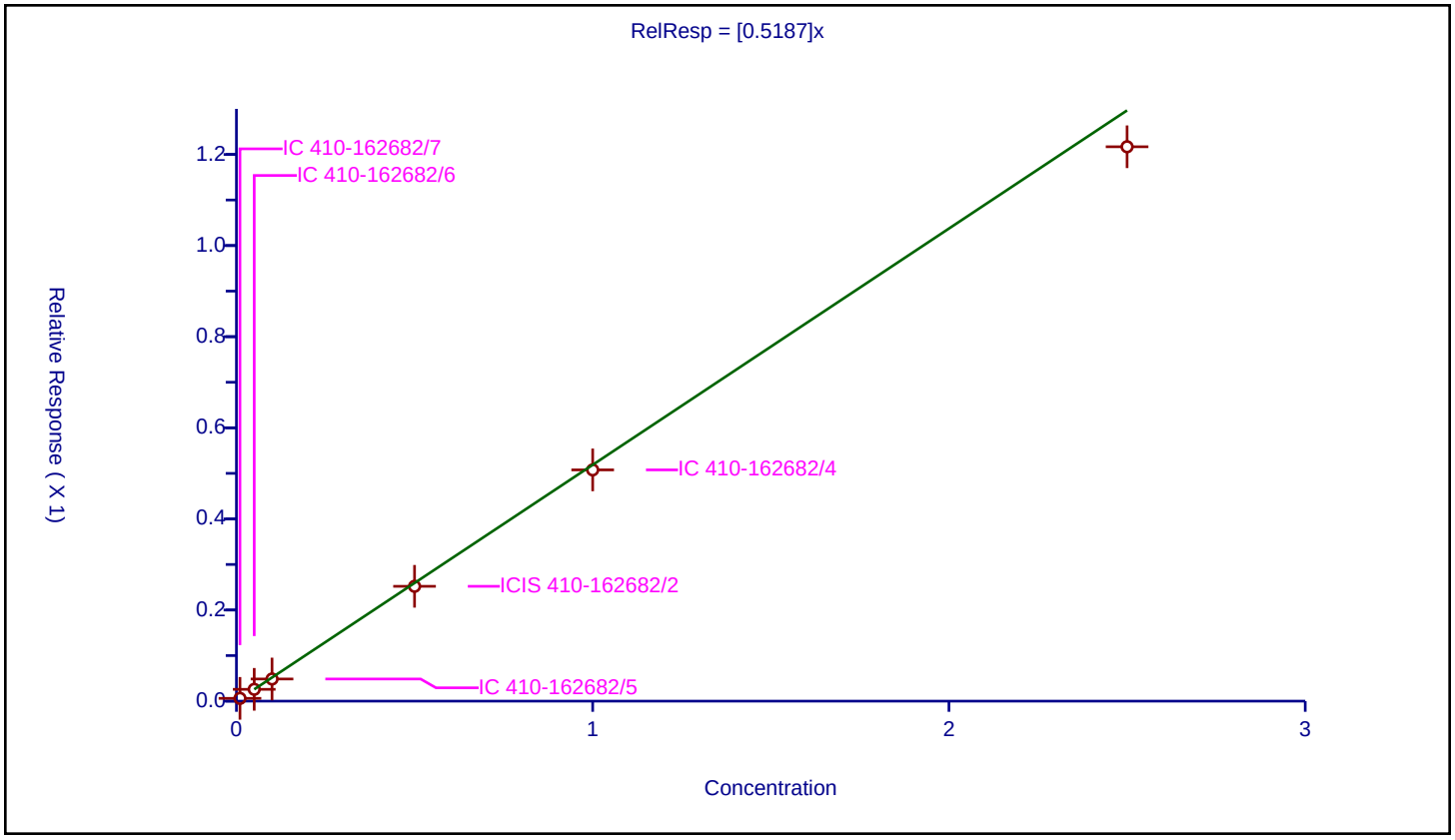
Curve Coefficients

Intercept:	0
Slope:	0.5187

Error Coefficients

Standard Error:	962000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.006087	0.25	425519.0	0.608668	Y
2	IC 410-162682/6	0.05	0.025951	0.25	395709.0	0.519018	Y
3	IC 410-162682/5	0.1	0.04859	0.25	396185.0	0.485897	Y
4	ICIS 410-162682/2	0.5	0.252052	0.25	381731.0	0.504105	Y
5	IC 410-162682/4	1.0	0.507618	0.25	391193.0	0.507618	Y
6	IC 410-162682/3	2.5	1.216871	0.25	402769.0	0.486748	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

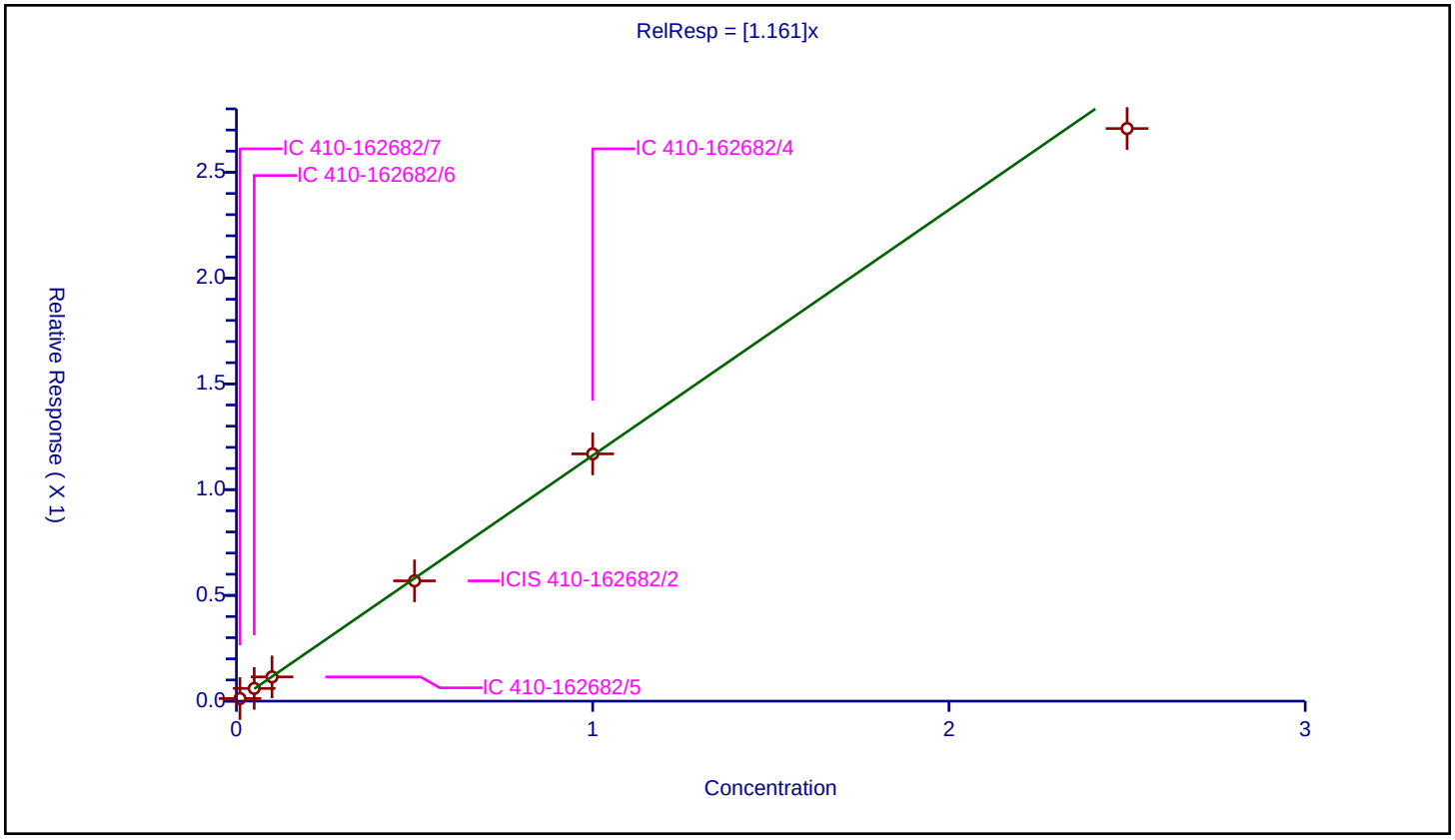
Curve Coefficients

Intercept:	0
Slope:	1.161

Error Coefficients

Standard Error:	2150000
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 410-162682/7	0.01	0.012276	0.25	425519.0	1.227619	Y
2	IC 410-162682/6	0.05	0.060226	0.25	395709.0	1.204522	Y
3	IC 410-162682/5	0.1	0.114688	0.25	396185.0	1.146876	Y
4	ICIS 410-162682/2	0.5	0.568671	0.25	381731.0	1.137343	Y
5	IC 410-162682/4	1.0	1.168965	0.25	391193.0	1.168965	Y
6	IC 410-162682/3	2.5	2.707117	0.25	402769.0	1.082847	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

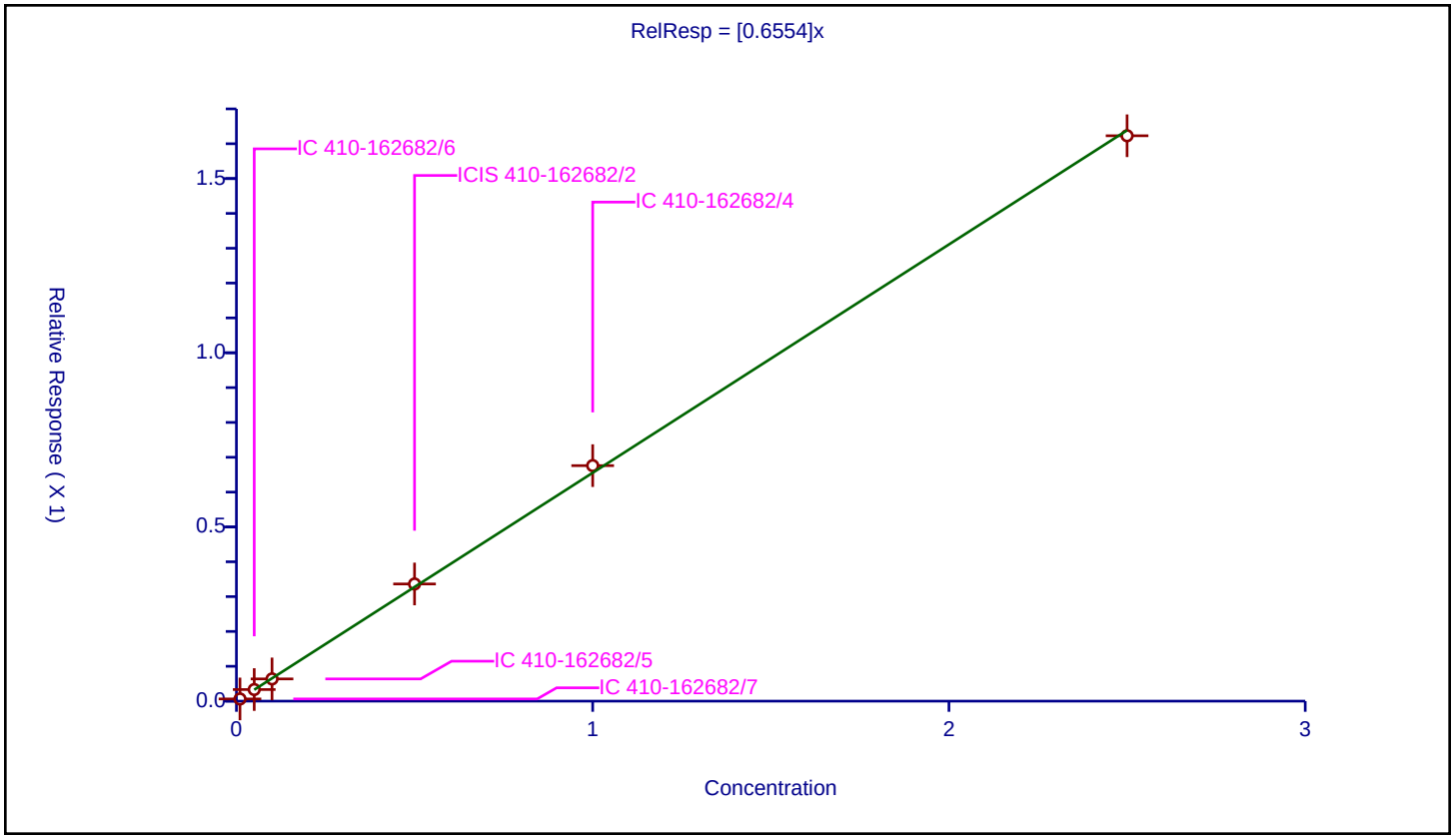
Curve Coefficients

Intercept:	0
Slope:	0.6554

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.006303	0.25	425519.0	0.630348	Y
2	IC 410-162682/6	0.05	0.033302	0.25	395709.0	0.666045	Y
3	IC 410-162682/5	0.1	0.063834	0.25	396185.0	0.638344	Y
4	ICIS 410-162682/2	0.5	0.336332	0.25	381731.0	0.672663	Y
5	IC 410-162682/4	1.0	0.676015	0.25	391193.0	0.676015	Y
6	IC 410-162682/3	2.5	1.622882	0.25	402769.0	0.649153	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

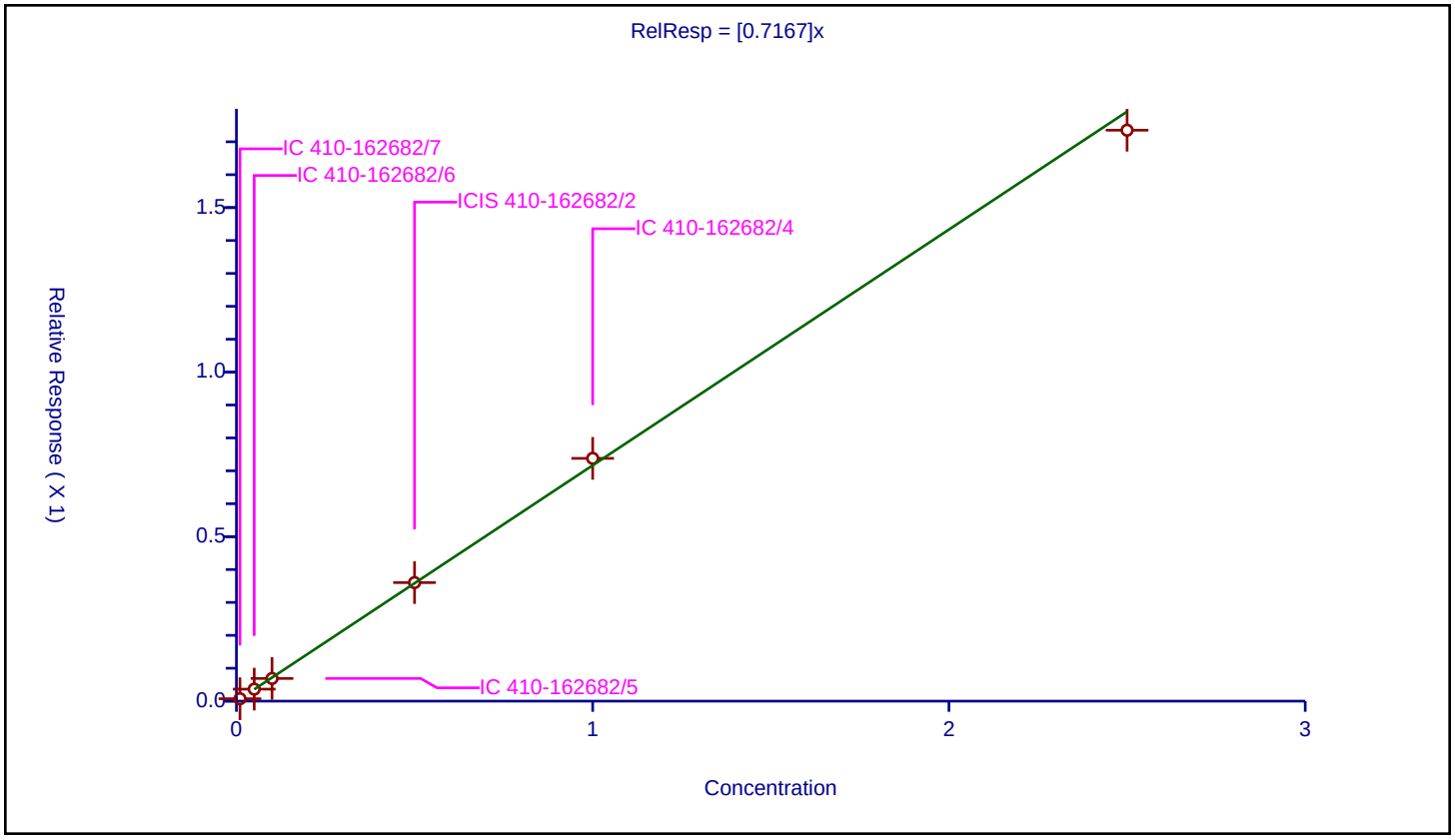
Curve Coefficients

Intercept:	0
Slope:	0.7167

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.007292	0.25	425519.0	0.729227	Y
2	IC 410-162682/6	0.05	0.036443	0.25	395709.0	0.728856	Y
3	IC 410-162682/5	0.1	0.068955	0.25	396185.0	0.689545	Y
4	ICIS 410-162682/2	0.5	0.360259	0.25	381731.0	0.720518	Y
5	IC 410-162682/4	1.0	0.737867	0.25	391193.0	0.737867	Y
6	IC 410-162682/3	2.5	1.73526	0.25	402769.0	0.694104	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

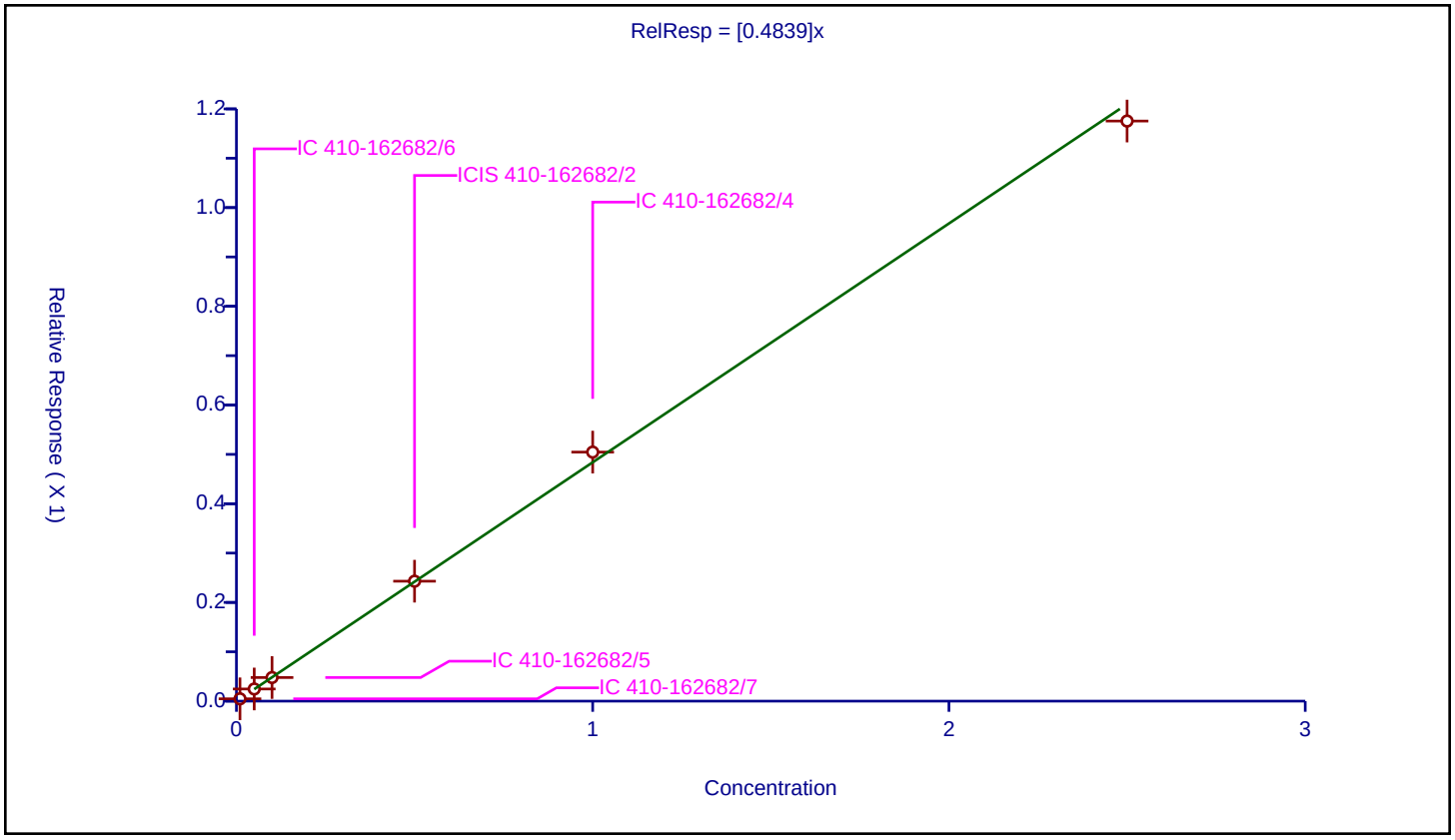
Curve Coefficients

Intercept:	0
Slope:	0.4839

Error Coefficients

Standard Error:	933000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.00471	0.25	425519.0	0.471013	Y
2	IC 410-162682/6	0.05	0.02466	0.25	395709.0	0.493191	Y
3	IC 410-162682/5	0.1	0.047842	0.25	396185.0	0.478419	Y
4	ICIS 410-162682/2	0.5	0.243006	0.25	381731.0	0.486012	Y
5	IC 410-162682/4	1.0	0.504615	0.25	391193.0	0.504615	Y
6	IC 410-162682/3	2.5	1.175403	0.25	402769.0	0.470161	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

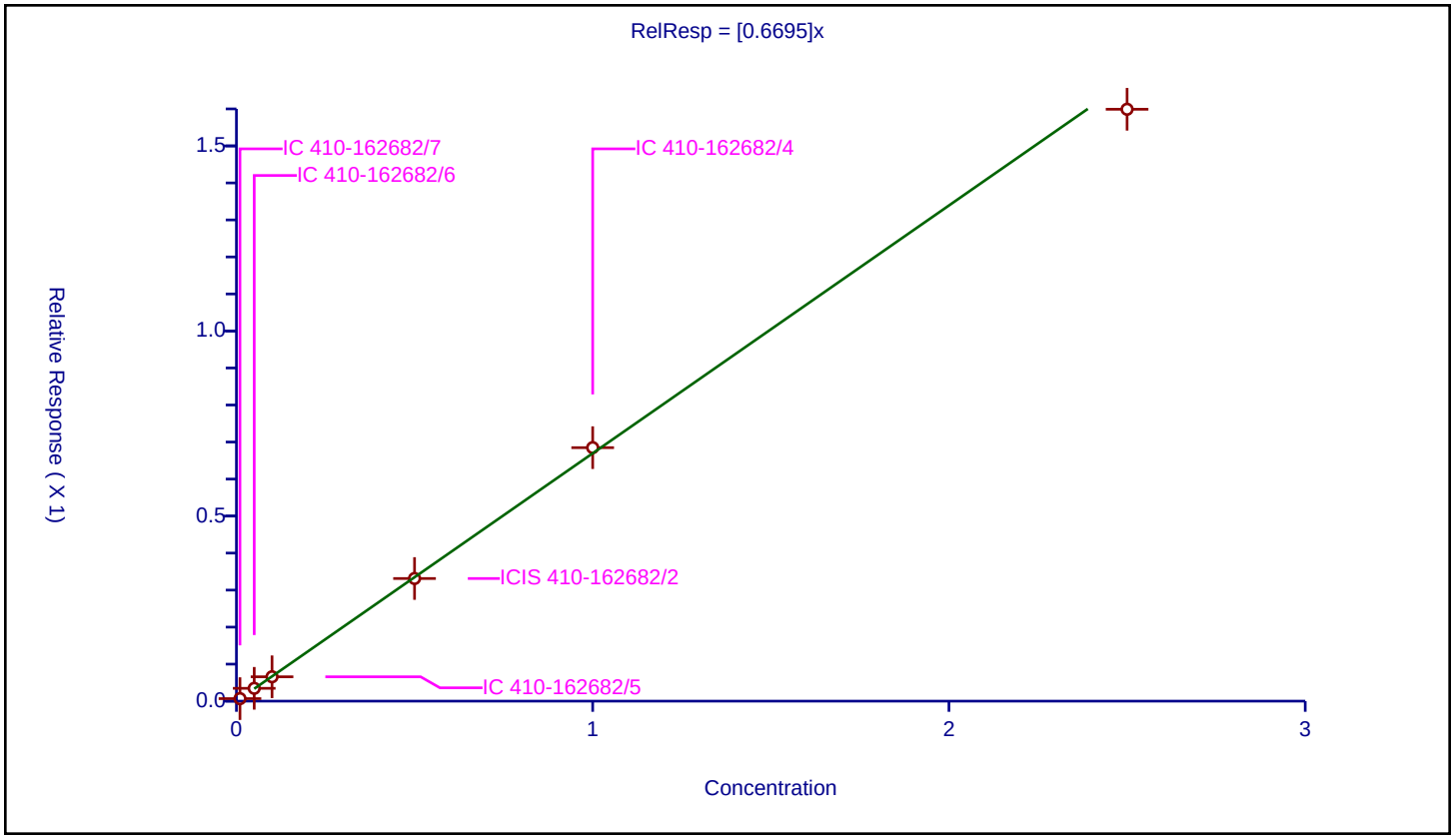
Curve Coefficients

Intercept:	0
Slope:	0.6695

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.006792	0.25	425519.0	0.679171	Y
2	IC 410-162682/6	0.05	0.034633	0.25	395709.0	0.692668	Y
3	IC 410-162682/5	0.1	0.065826	0.25	396185.0	0.658259	Y
4	ICIS 410-162682/2	0.5	0.331322	0.25	381731.0	0.662645	Y
5	IC 410-162682/4	1.0	0.68481	0.25	391193.0	0.68481	Y
6	IC 410-162682/3	2.5	1.598997	0.25	402769.0	0.639599	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

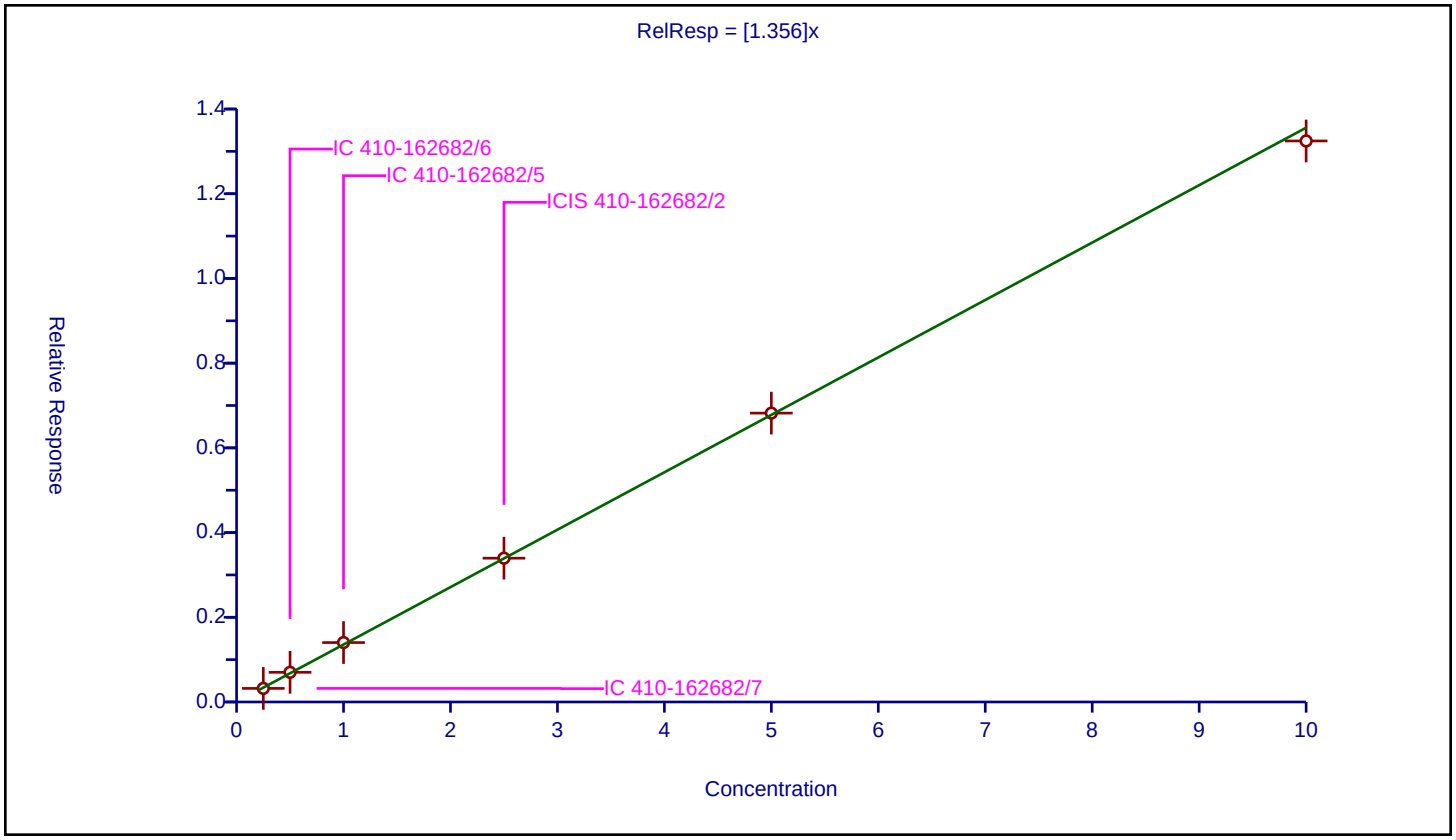
Curve Coefficients

Intercept:	0
Slope:	1.356

Error Coefficients

Standard Error:	5050000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.25	0.320975	0.25	197805.0	1.283901	Y
2	IC 410-162682/6	0.5	0.700629	0.25	187939.0	1.401258	Y
3	IC 410-162682/5	1.0	1.403107	0.25	189196.0	1.403107	Y
4	ICIS 410-162682/2	2.5	3.394837	0.25	179773.0	1.357935	Y
5	IC 410-162682/4	5.0	6.819885	0.25	183984.0	1.363977	Y
6	IC 410-162682/3	10.0	13.246028	0.25	184055.0	1.324603	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

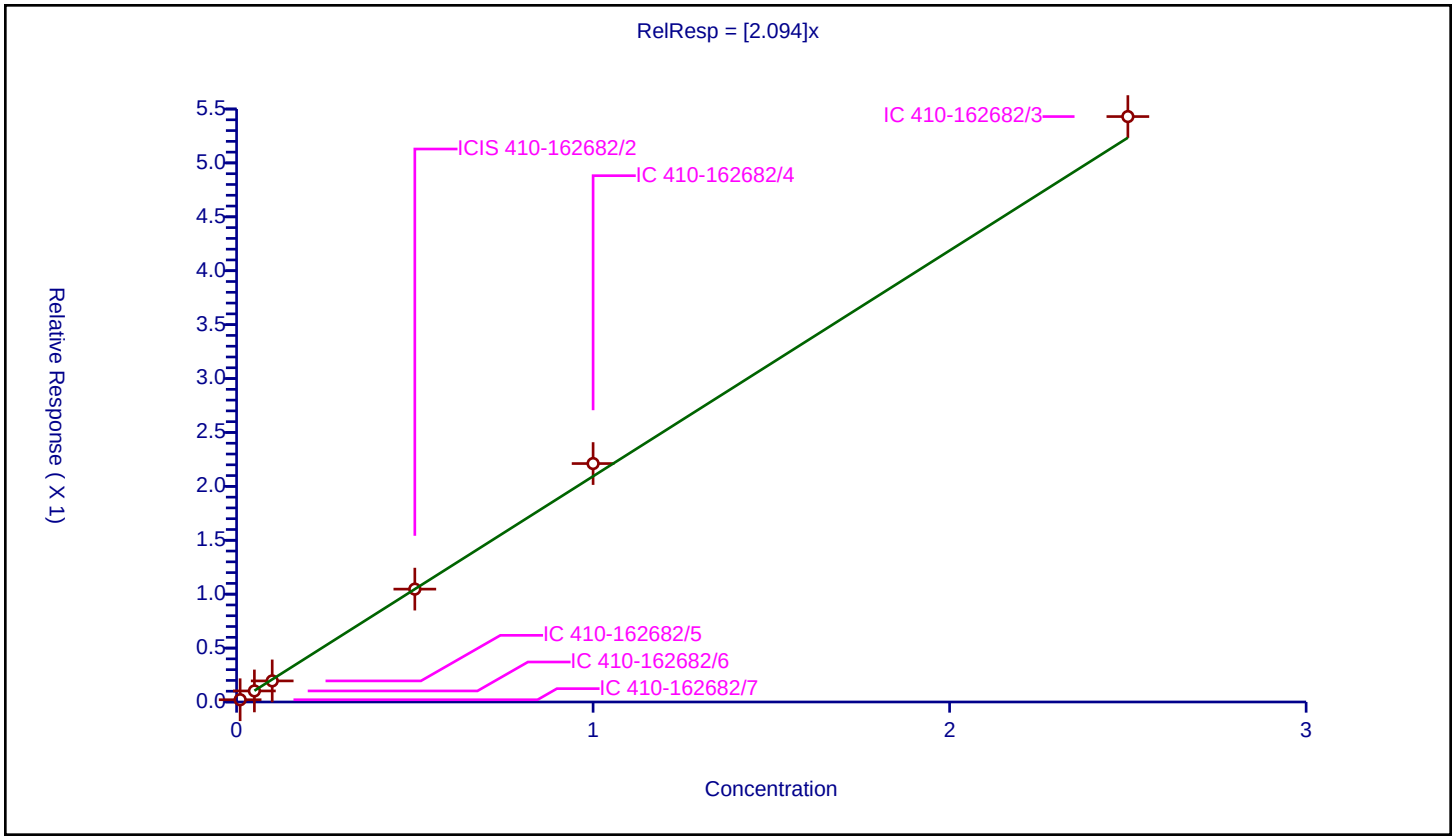
Curve Coefficients

Intercept:	0
Slope:	2.094

Error Coefficients

Standard Error:	1960000
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 410-162682/7	0.01	0.020789	0.25	197805.0	2.078941	Y
2	IC 410-162682/6	0.05	0.102459	0.25	187939.0	2.049176	Y
3	IC 410-162682/5	0.1	0.195576	0.25	189196.0	1.955763	Y
4	ICIS 410-162682/2	0.5	1.046887	0.25	179773.0	2.093774	Y
5	IC 410-162682/4	1.0	2.211497	0.25	183984.0	2.211497	Y
6	IC 410-162682/3	2.5	5.430085	0.25	184055.0	2.172034	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

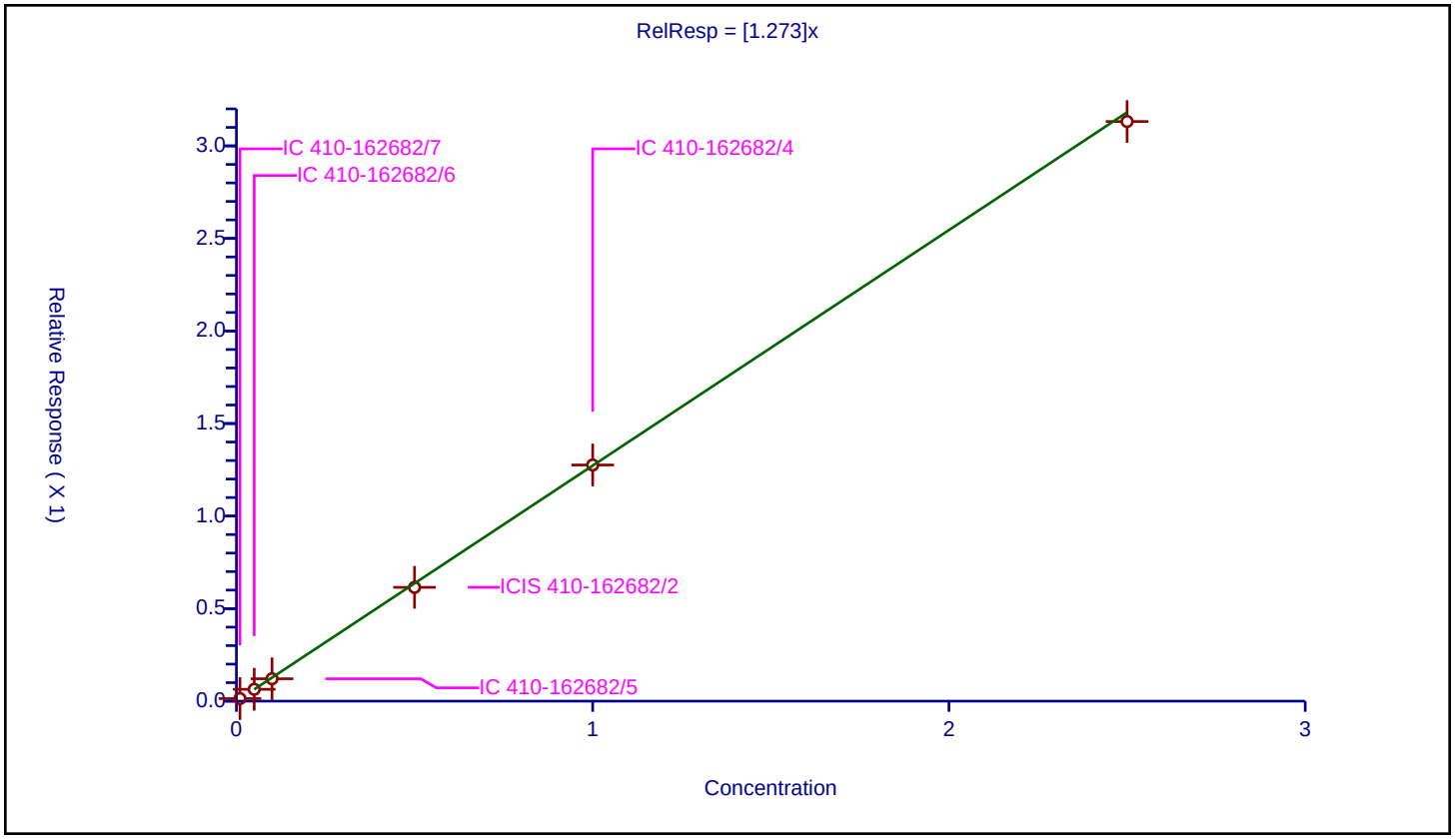
Curve Coefficients

Intercept:	0
Slope:	1.273

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.013898	0.25	197805.0	1.389753	Y
2	IC 410-162682/6	0.05	0.06391	0.25	187939.0	1.278207	Y
3	IC 410-162682/5	0.1	0.120939	0.25	189196.0	1.209394	Y
4	ICIS 410-162682/2	0.5	0.614773	0.25	179773.0	1.229545	Y
5	IC 410-162682/4	1.0	1.275991	0.25	183984.0	1.275991	Y
6	IC 410-162682/3	2.5	3.131717	0.25	184055.0	1.252687	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

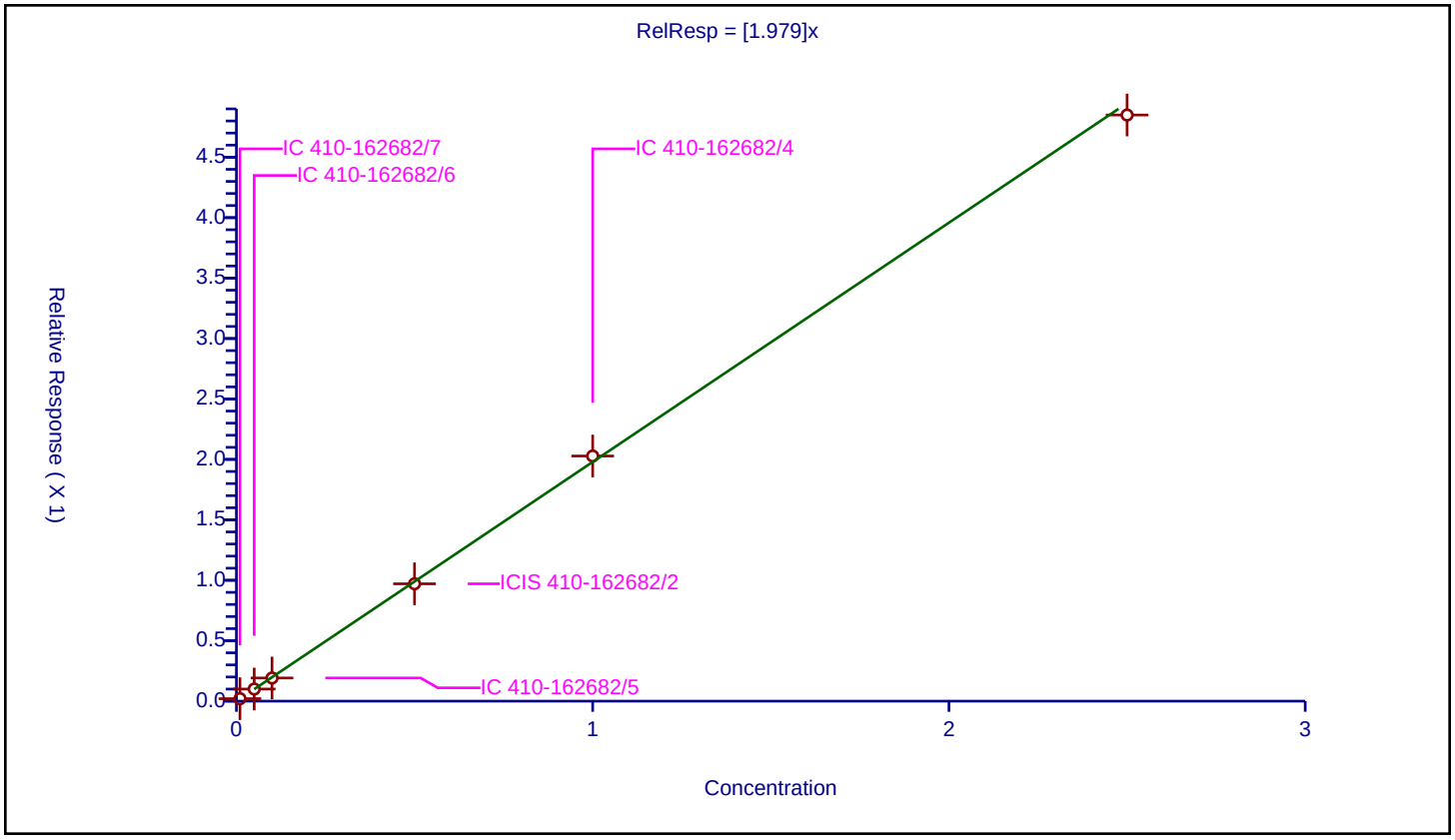
Curve Coefficients

Intercept:	0
Slope:	1.979

Error Coefficients

Standard Error:	1760000
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 410-162682/7	0.01	0.020462	0.25	197805.0	2.046207	Y
2	IC 410-162682/6	0.05	0.100159	0.25	187939.0	2.003177	Y
3	IC 410-162682/5	0.1	0.191562	0.25	189196.0	1.915619	Y
4	ICIS 410-162682/2	0.5	0.970802	0.25	179773.0	1.941604	Y
5	IC 410-162682/4	1.0	2.027983	0.25	183984.0	2.027983	Y
6	IC 410-162682/3	2.5	4.849321	0.25	184055.0	1.939728	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

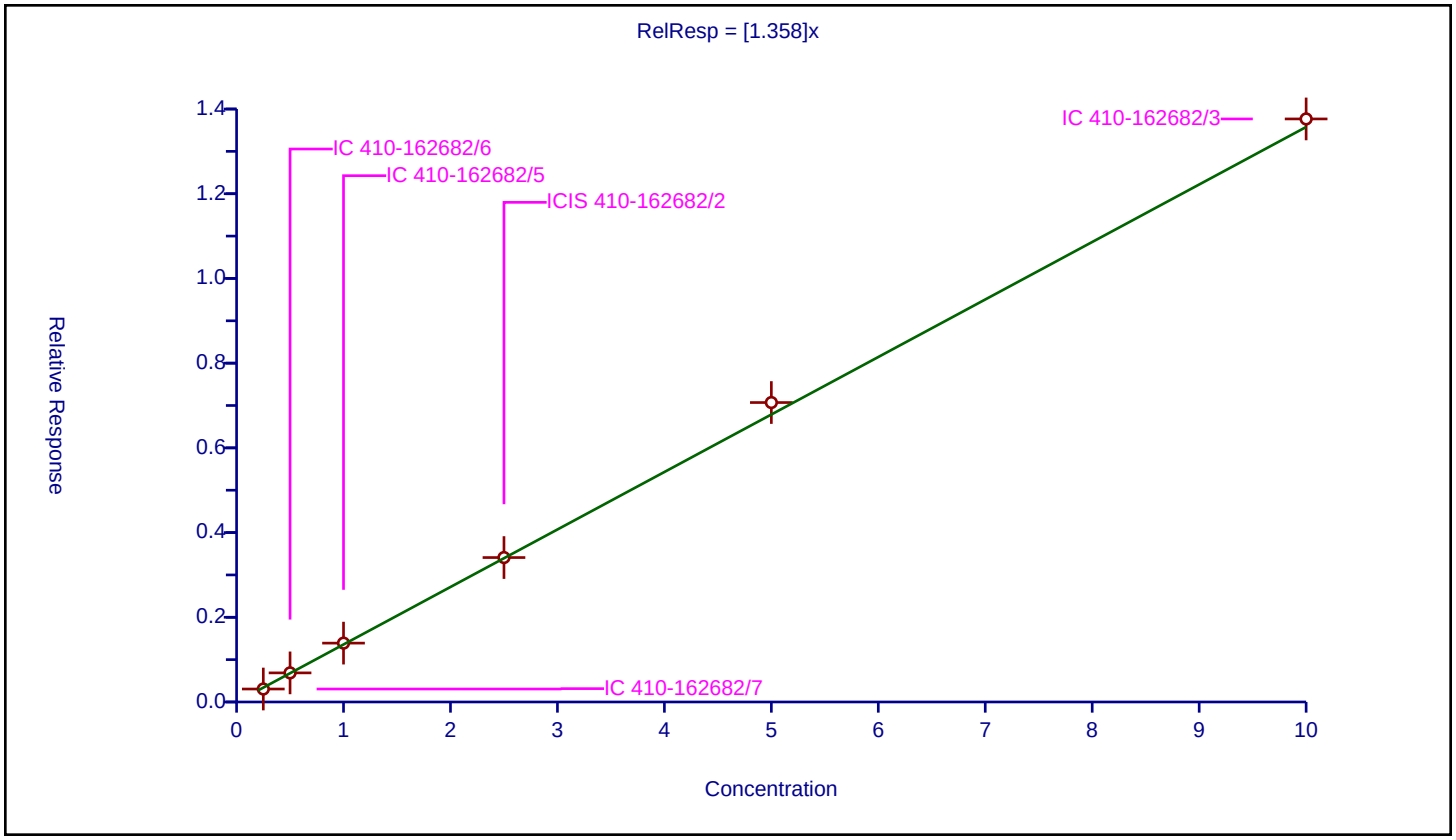
Curve Coefficients

Intercept:	0
Slope:	1.358

Error Coefficients

Standard Error:	5240000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.25	0.306461	0.25	197805.0	1.225844	Y
2	IC 410-162682/6	0.5	0.687284	0.25	187939.0	1.374568	Y
3	IC 410-162682/5	1.0	1.390015	0.25	189196.0	1.390015	Y
4	ICIS 410-162682/2	2.5	3.410209	0.25	179773.0	1.364084	Y
5	IC 410-162682/4	5.0	7.069755	0.25	183984.0	1.413951	Y
6	IC 410-162682/3	10.0	13.766025	0.25	184055.0	1.376603	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

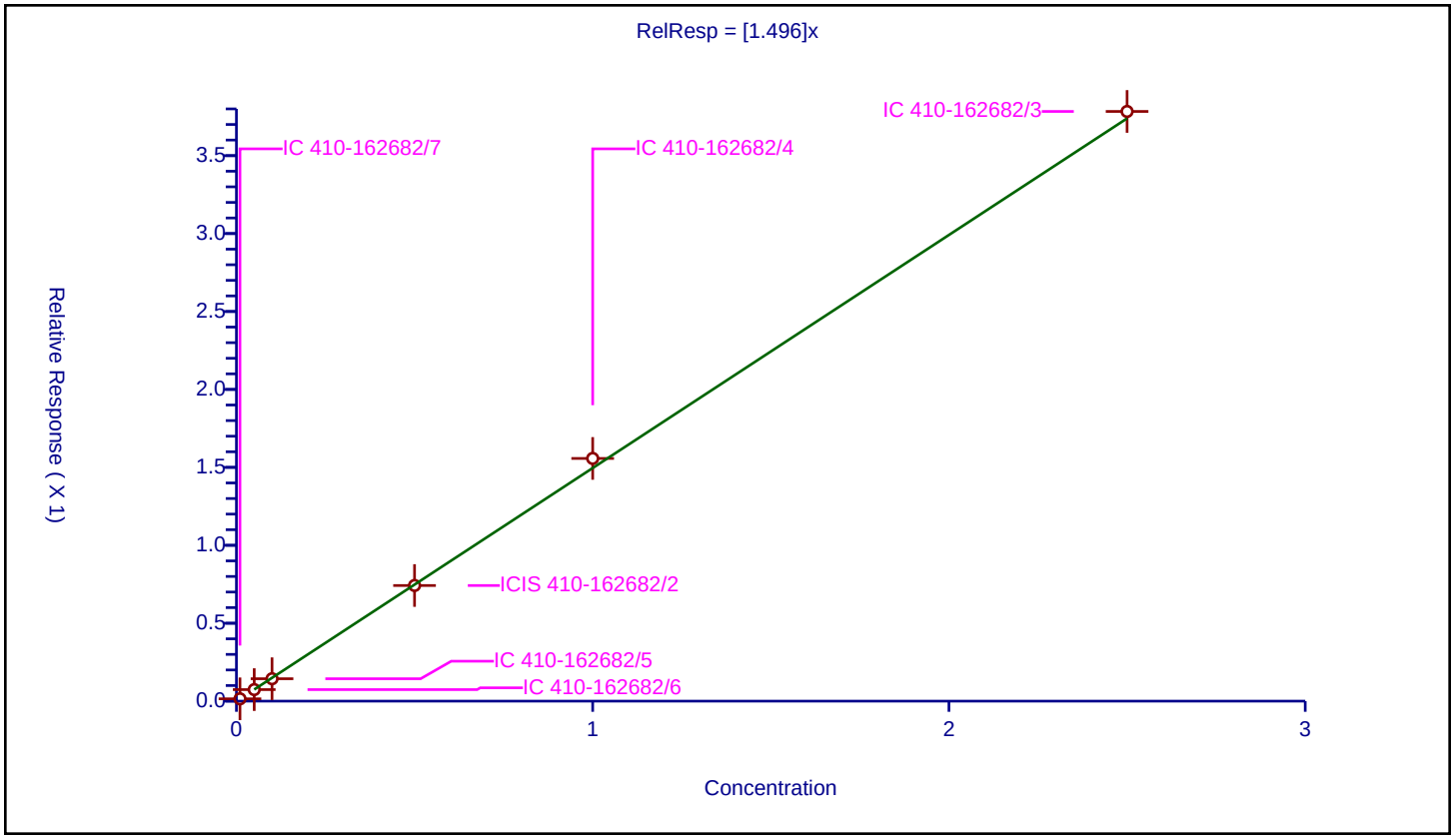
Curve Coefficients

Intercept:	0
Slope:	1.496

Error Coefficients

Standard Error:	1370000
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 410-162682/7	0.01	0.015005	0.25	197805.0	1.500468	Y
2	IC 410-162682/6	0.05	0.07402	0.25	187939.0	1.480401	Y
3	IC 410-162682/5	0.1	0.143789	0.25	189196.0	1.437887	Y
4	ICIS 410-162682/2	0.5	0.742005	0.25	179773.0	1.48401	Y
5	IC 410-162682/4	1.0	1.557255	0.25	183984.0	1.557255	Y
6	IC 410-162682/3	2.5	3.783573	0.25	184055.0	1.513429	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

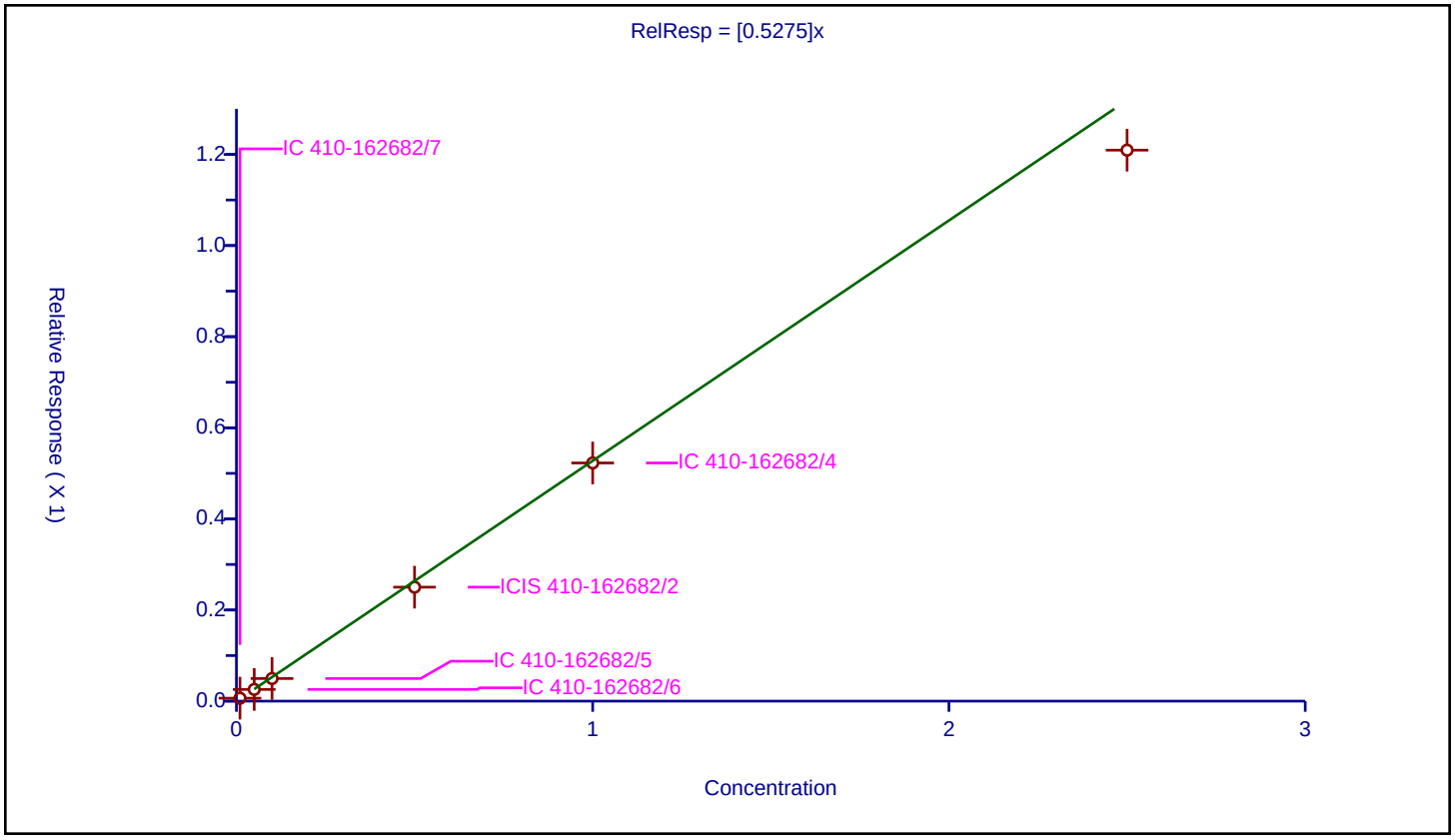
Curve Coefficients

Intercept:	0
Slope:	0.5275

Error Coefficients

Standard Error:	784000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.006476	0.25	327880.0	0.647645	Y
2	IC 410-162682/6	0.05	0.025715	0.25	319363.0	0.514305	Y
3	IC 410-162682/5	0.1	0.049629	0.25	324971.0	0.49629	Y
4	ICIS 410-162682/2	0.5	0.250184	0.25	305411.0	0.500368	Y
5	IC 410-162682/4	1.0	0.522812	0.25	318491.0	0.522812	Y
6	IC 410-162682/3	2.5	1.209433	0.25	328635.0	0.483773	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

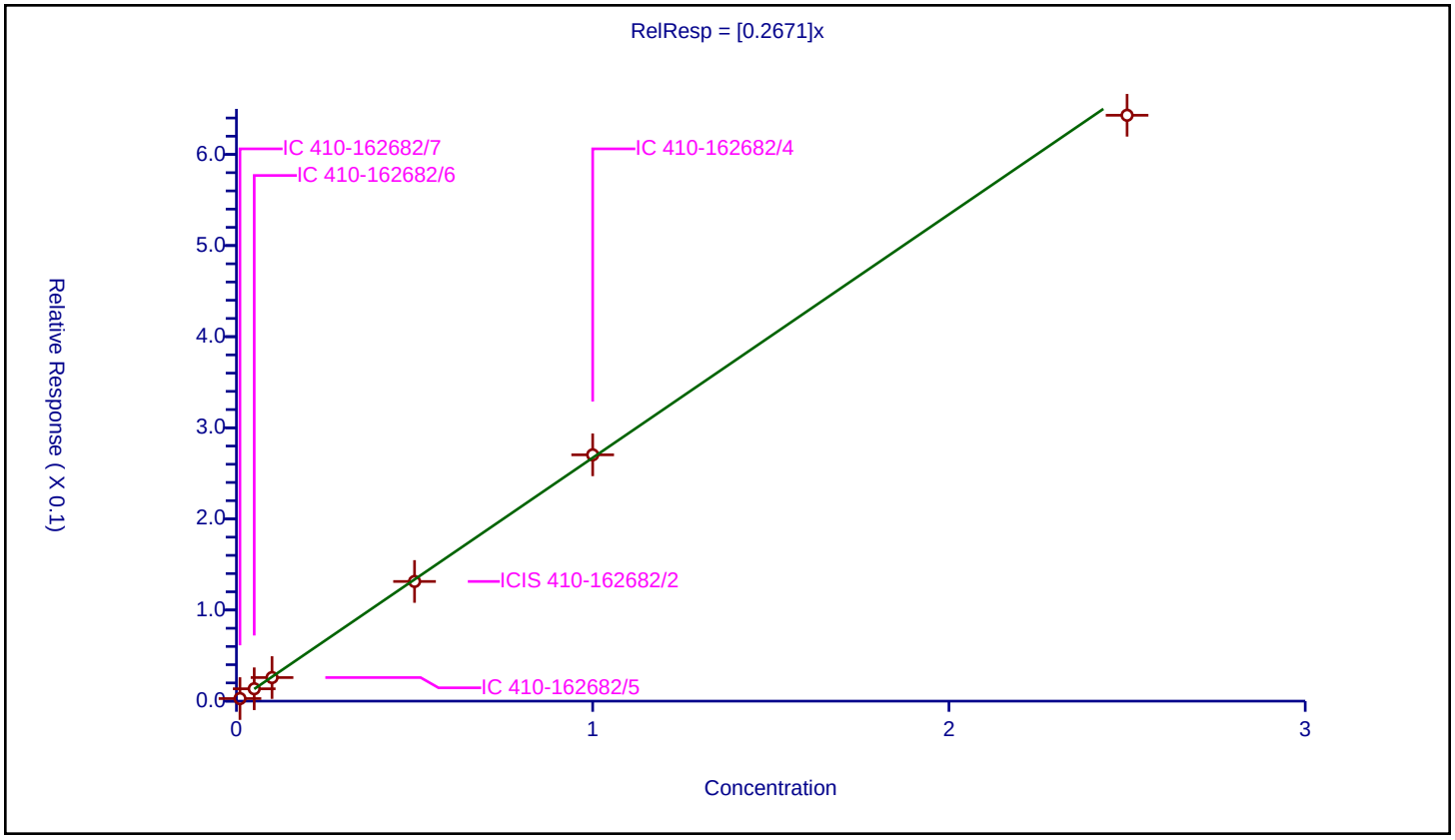
Curve Coefficients

Intercept:	0
Slope:	0.2671

Error Coefficients

Standard Error:	415000
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 410-162682/7	0.01	0.002821	0.25	327880.0	0.282115	Y
2	IC 410-162682/6	0.05	0.013579	0.25	319363.0	0.271572	Y
3	IC 410-162682/5	0.1	0.025873	0.25	324971.0	0.258731	Y
4	ICIS 410-162682/2	0.5	0.131341	0.25	305411.0	0.262682	Y
5	IC 410-162682/4	1.0	0.270348	0.25	318491.0	0.270348	Y
6	IC 410-162682/3	2.5	0.643004	0.25	328635.0	0.257202	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

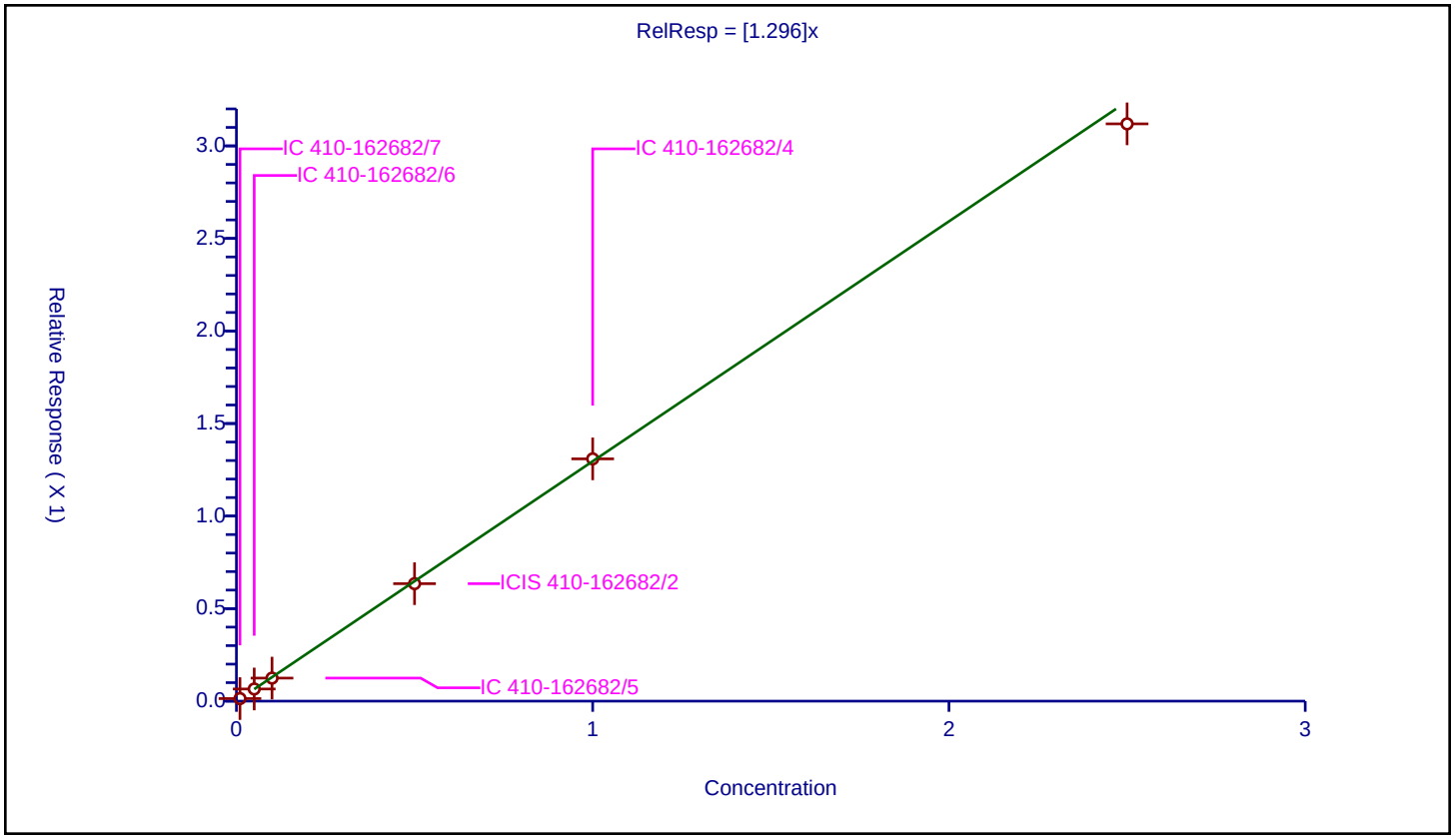
Curve Coefficients

Intercept:	0
Slope:	1.296

Error Coefficients

Standard Error:	2010000
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 410-162682/7	0.01	0.013897	0.25	327880.0	1.389685	Y
2	IC 410-162682/6	0.05	0.065751	0.25	319363.0	1.315024	Y
3	IC 410-162682/5	0.1	0.124572	0.25	324971.0	1.245719	Y
4	ICIS 410-162682/2	0.5	0.634651	0.25	305411.0	1.269301	Y
5	IC 410-162682/4	1.0	1.309011	0.25	318491.0	1.309011	Y
6	IC 410-162682/3	2.5	3.119175	0.25	328635.0	1.24767	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

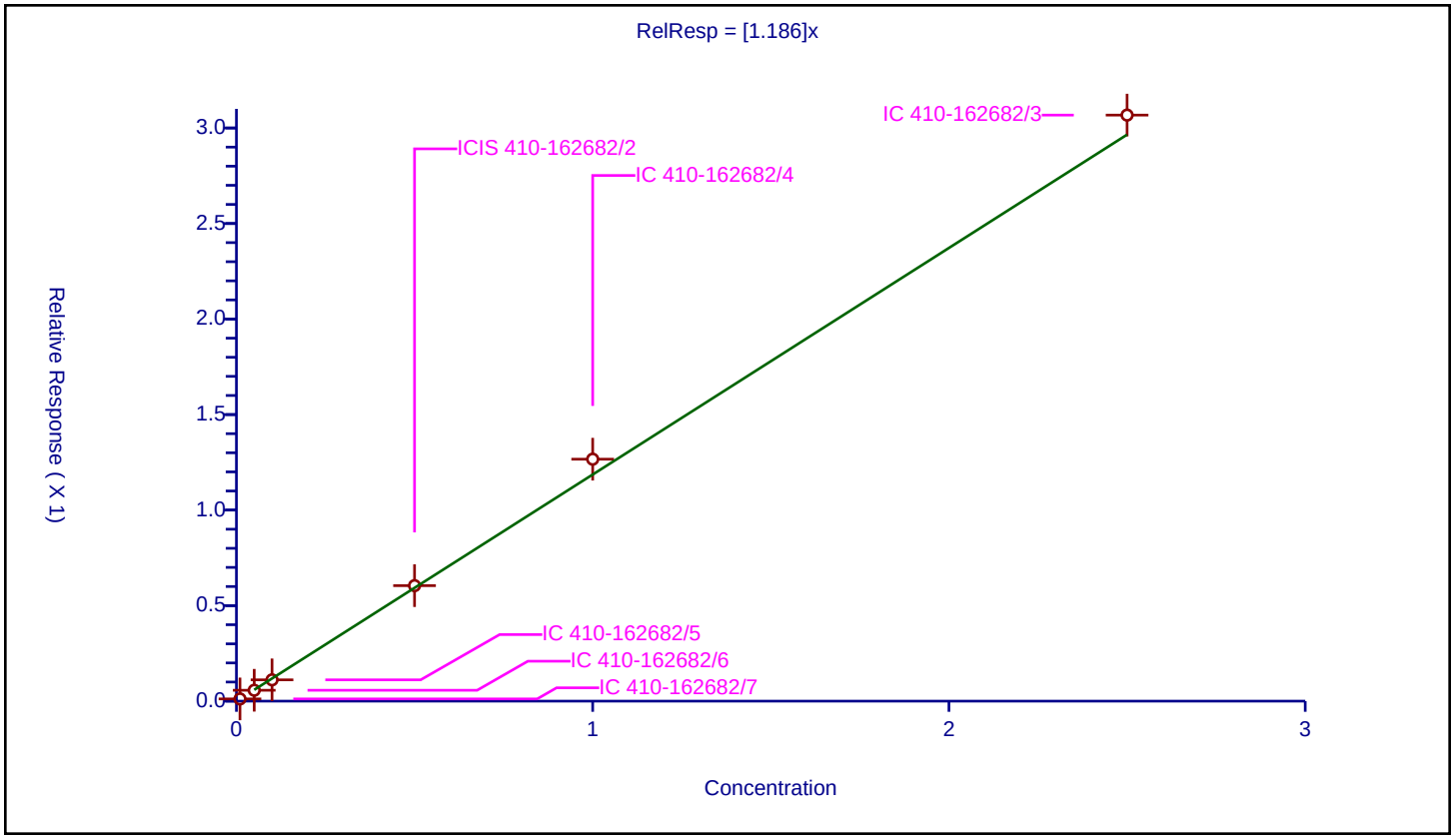
Curve Coefficients

Intercept:	0
Slope:	1.186

Error Coefficients

Standard Error:	1970000
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 410-162682/7	0.01	0.011599	0.25	327880.0	1.159876	Y
2	IC 410-162682/6	0.05	0.056931	0.25	319363.0	1.138626	Y
3	IC 410-162682/5	0.1	0.111516	0.25	324971.0	1.115161	Y
4	ICIS 410-162682/2	0.5	0.604565	0.25	305411.0	1.20913	Y
5	IC 410-162682/4	1.0	1.266503	0.25	318491.0	1.266503	Y
6	IC 410-162682/3	2.5	3.067481	0.25	328635.0	1.226992	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

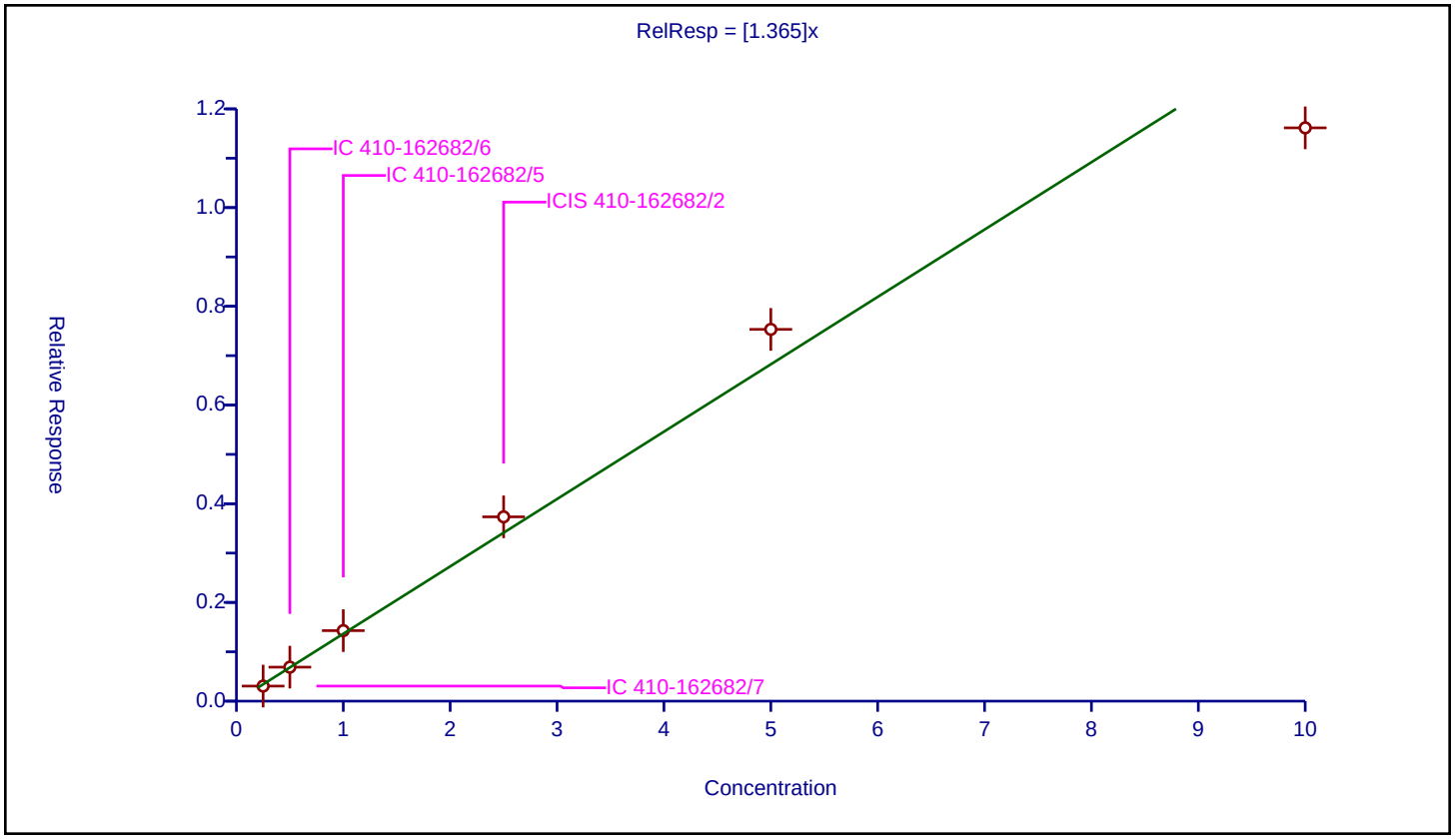
Curve Coefficients

Intercept:	0
Slope:	1.365

Error Coefficients

Standard Error:	8370000
Relative Standard Error:	10.5
Correlation Coefficient:	0.984
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.25	0.305244	0.25	327880.0	1.220974	Y
2	IC 410-162682/6	0.5	0.689079	0.25	319363.0	1.378157	Y
3	IC 410-162682/5	1.0	1.428922	0.25	324971.0	1.428922	Y
4	ICIS 410-162682/2	2.5	3.734051	0.25	305411.0	1.49362	Y
5	IC 410-162682/4	5.0	7.532718	0.25	318491.0	1.506544	Y
6	IC 410-162682/3	10.0	11.616029	0.25	328635.0	1.161603	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

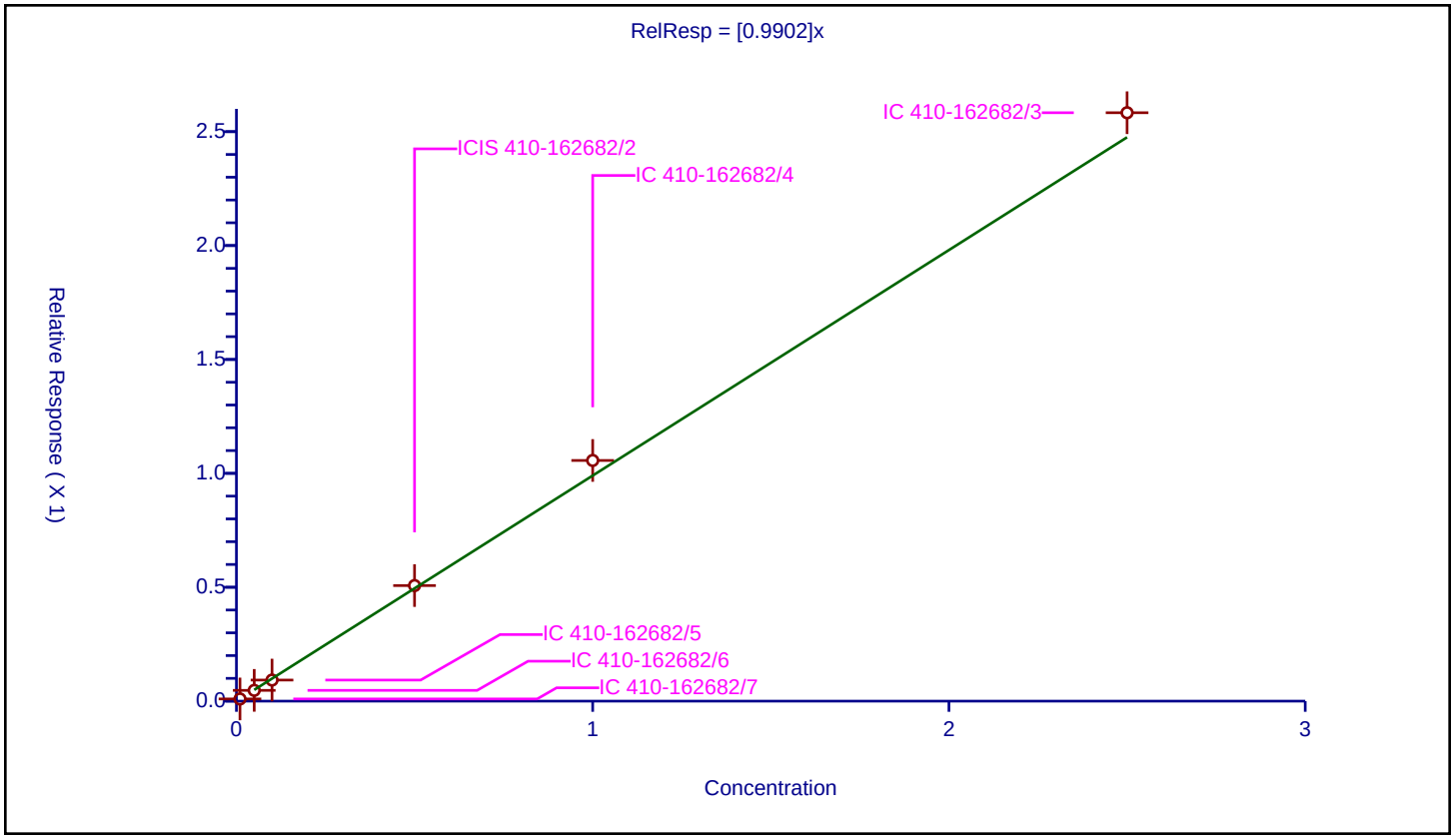
Curve Coefficients

Intercept:	0
Slope:	0.9902

Error Coefficients

Standard Error:	1660000
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 410-162682/7	0.01	0.009654	0.25	327880.0	0.965368	Y
2	IC 410-162682/6	0.05	0.04726	0.25	319363.0	0.94521	Y
3	IC 410-162682/5	0.1	0.092566	0.25	324971.0	0.92566	Y
4	ICIS 410-162682/2	0.5	0.507416	0.25	305411.0	1.014832	Y
5	IC 410-162682/4	1.0	1.056612	0.25	318491.0	1.056612	Y
6	IC 410-162682/3	2.5	2.583106	0.25	328635.0	1.033242	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

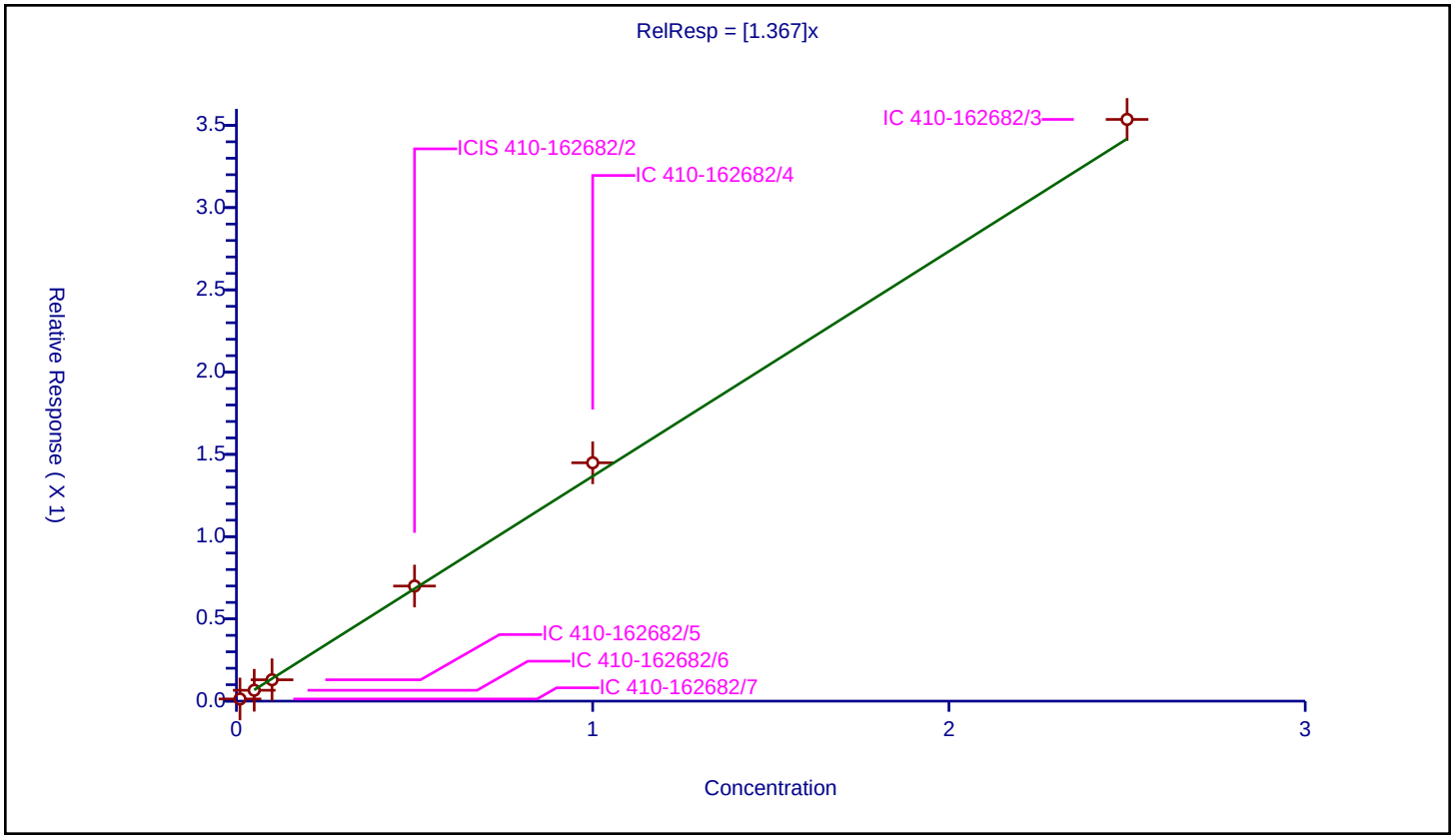
Curve Coefficients

Intercept:	0
Slope:	1.367

Error Coefficients

Standard Error:	2270000
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 410-162682/7	0.01	0.013182	0.25	327880.0	1.318165	Y
2	IC 410-162682/6	0.05	0.066175	0.25	319363.0	1.32351	Y
3	IC 410-162682/5	0.1	0.129862	0.25	324971.0	1.298624	Y
4	ICIS 410-162682/2	0.5	0.699712	0.25	305411.0	1.399424	Y
5	IC 410-162682/4	1.0	1.448942	0.25	318491.0	1.448942	Y
6	IC 410-162682/3	2.5	3.536042	0.25	328635.0	1.414417	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

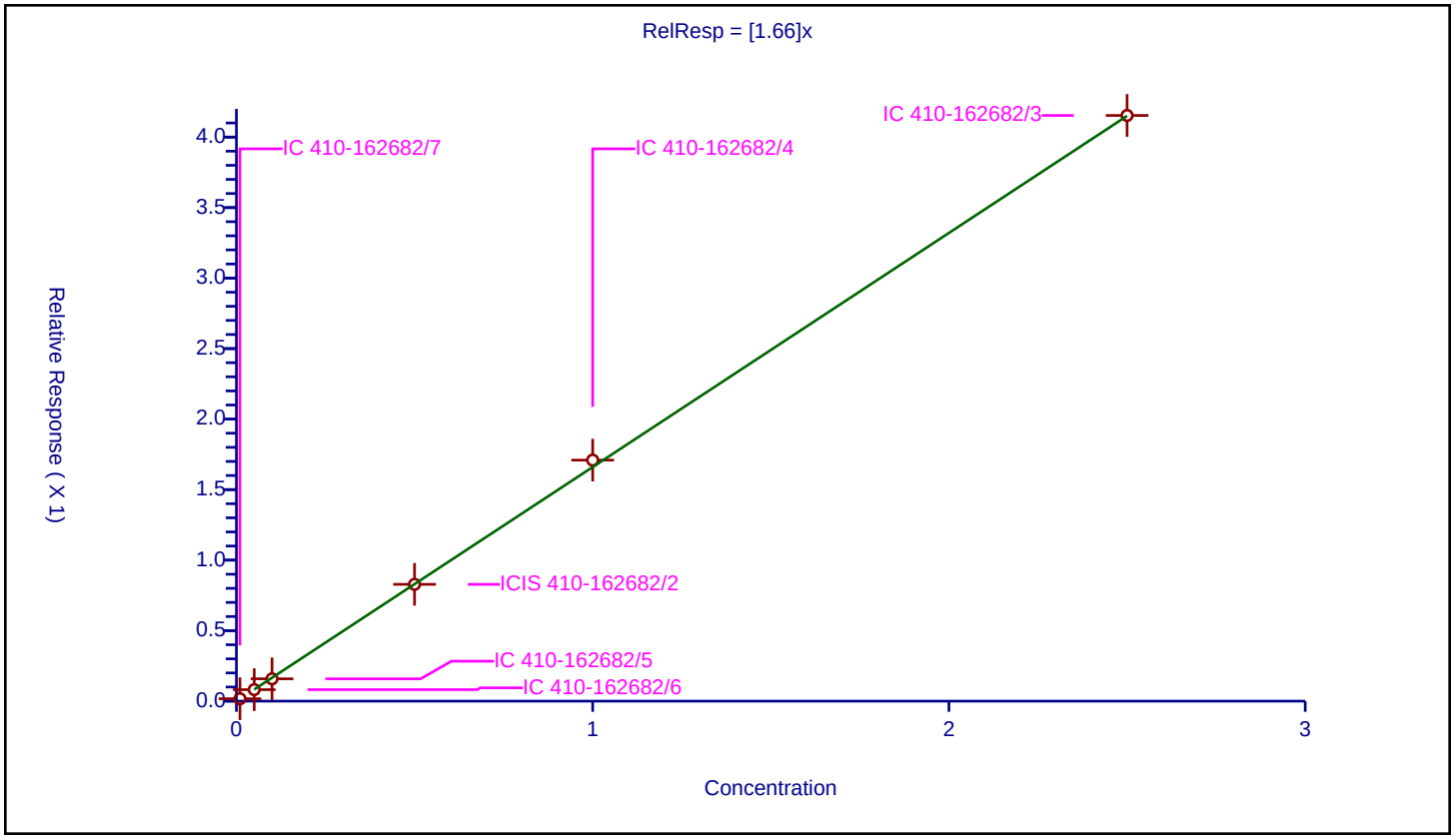
Curve Coefficients

Intercept:	0
Slope:	1.66

Error Coefficients

Standard Error:	2370000
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 410-162682/7	0.01	0.01718	0.25	266453.0	1.718033	Y
2	IC 410-162682/6	0.05	0.081591	0.25	265204.0	1.631819	Y
3	IC 410-162682/5	0.1	0.158377	0.25	274940.0	1.583773	Y
4	ICIS 410-162682/2	0.5	0.828267	0.25	268442.0	1.656535	Y
5	IC 410-162682/4	1.0	1.709165	0.25	280198.0	1.709165	Y
6	IC 410-162682/3	2.5	4.153333	0.25	292508.0	1.661333	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

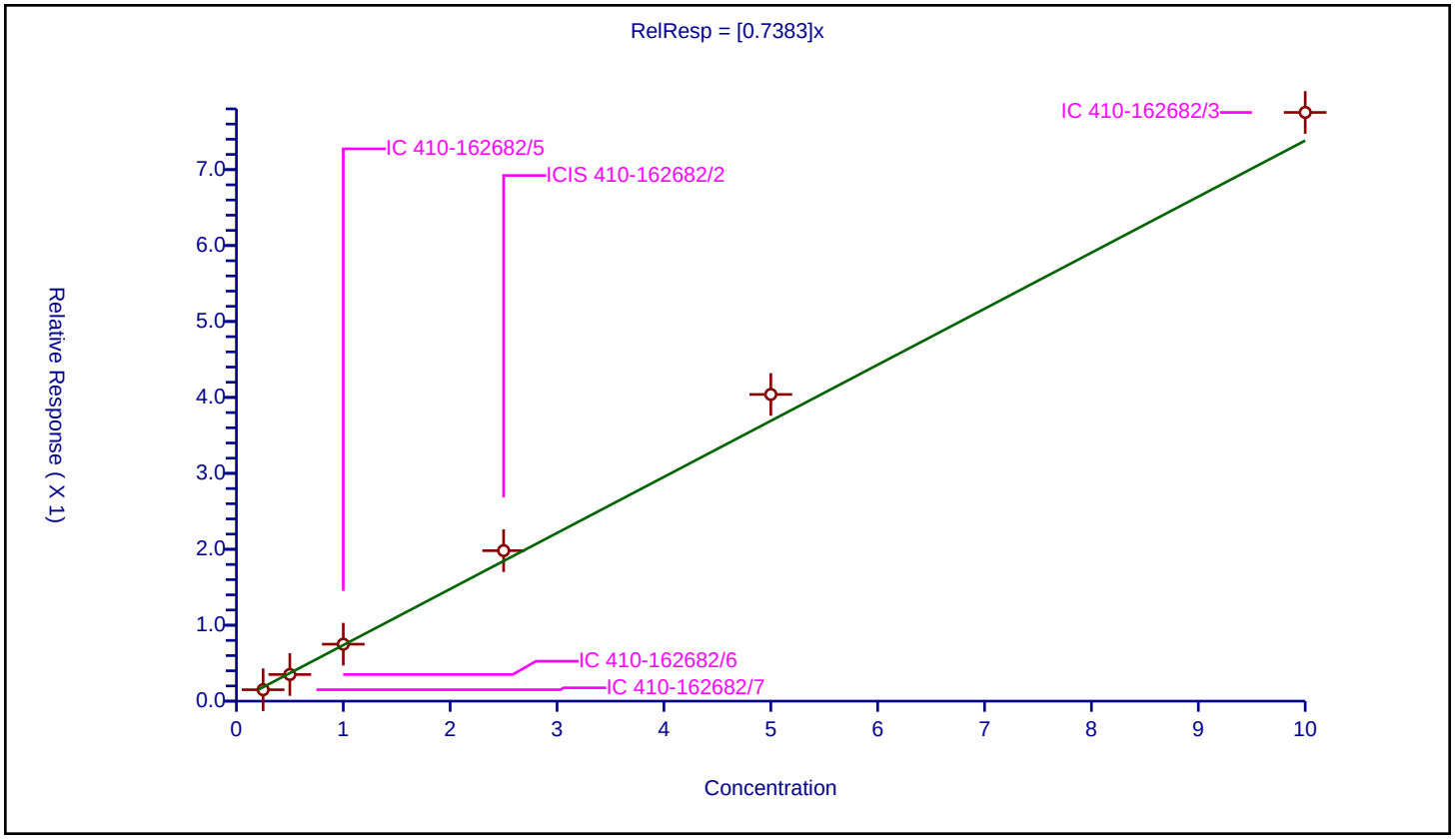
Curve Coefficients

Intercept:	0
Slope:	0.7383

Error Coefficients

Standard Error:	4650000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.25	0.150402	0.25	266453.0	0.601607	Y
2	IC 410-162682/6	0.5	0.350912	0.25	265204.0	0.701824	Y
3	IC 410-162682/5	1.0	0.750145	0.25	274940.0	0.750145	Y
4	ICIS 410-162682/2	2.5	1.982051	0.25	268442.0	0.79282	Y
5	IC 410-162682/4	5.0	4.039208	0.25	280198.0	0.807842	Y
6	IC 410-162682/3	10.0	7.753506	0.25	292508.0	0.775351	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

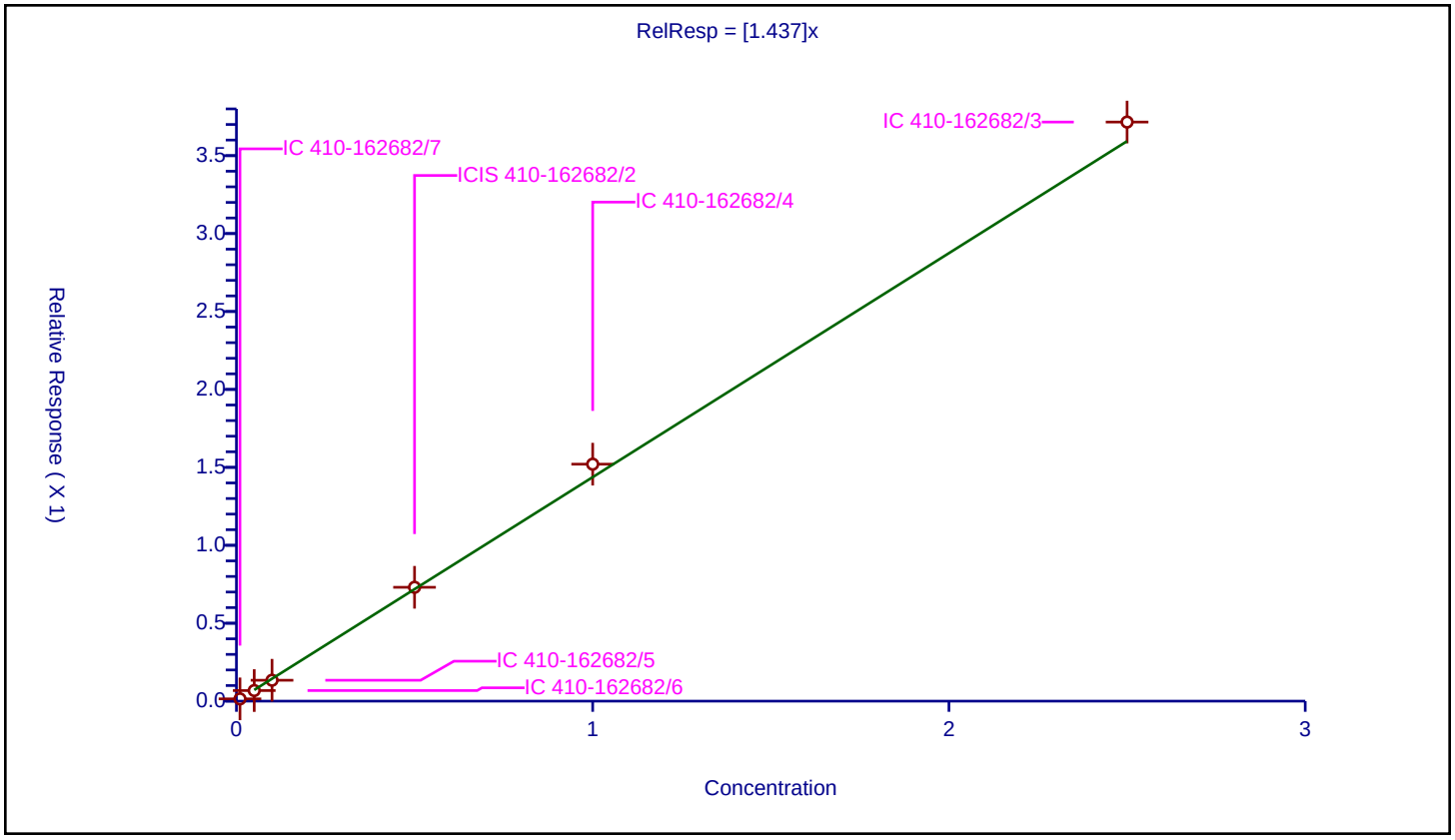
Curve Coefficients

Intercept:	0
Slope:	1.437

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.014568	0.25	266453.0	1.456824	Y
2	IC 410-162682/6	0.05	0.067871	0.25	265204.0	1.357427	Y
3	IC 410-162682/5	0.1	0.134108	0.25	274940.0	1.341084	Y
4	ICIS 410-162682/2	0.5	0.730503	0.25	268442.0	1.461006	Y
5	IC 410-162682/4	1.0	1.520479	0.25	280198.0	1.520479	Y
6	IC 410-162682/3	2.5	3.71562	0.25	292508.0	1.486248	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

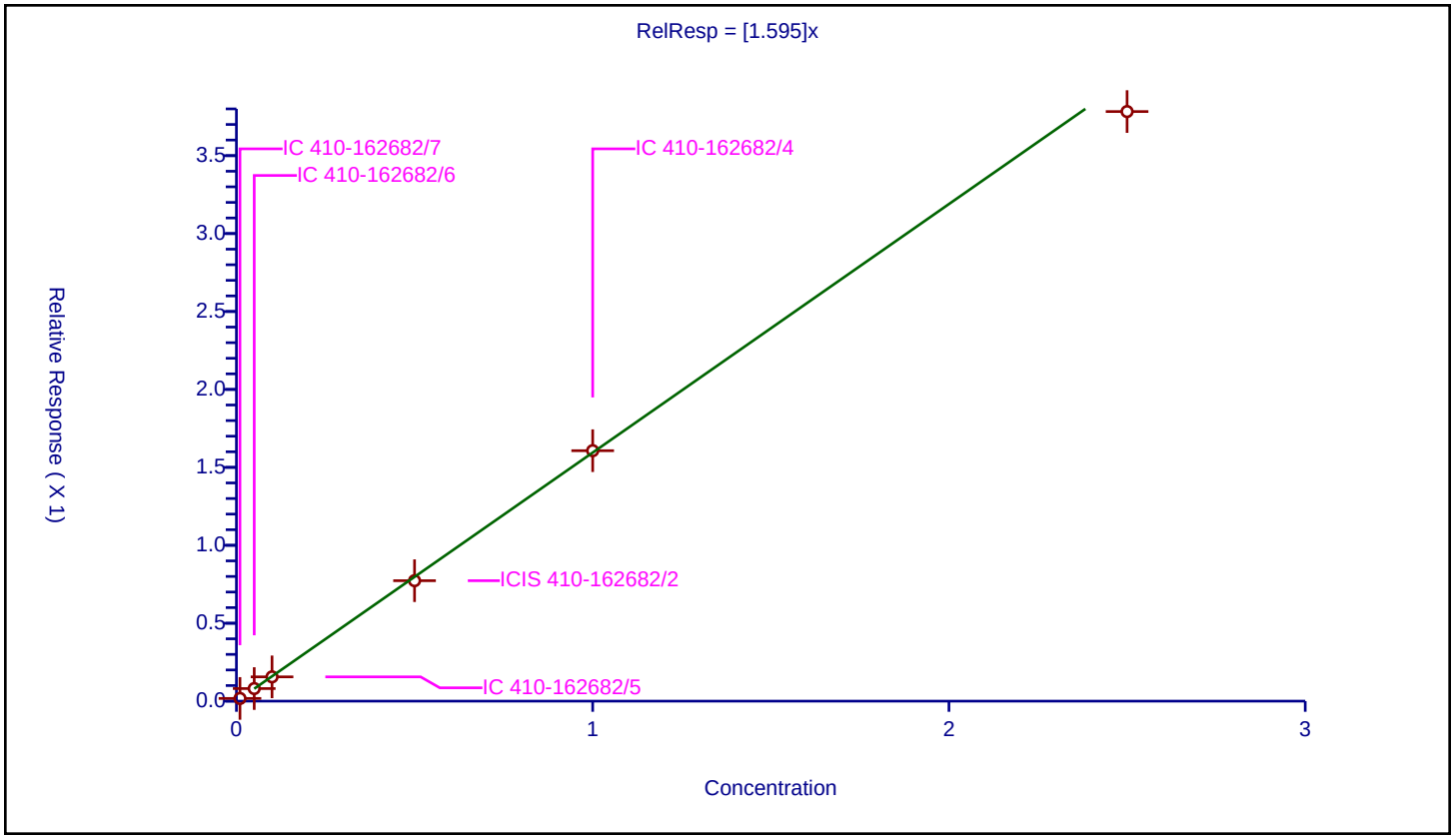
Curve Coefficients

Intercept:	0
Slope:	1.595

Error Coefficients

Standard Error:	2170000
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 410-162682/7	0.01	0.0173	0.25	266453.0	1.730042	Y
2	IC 410-162682/6	0.05	0.080713	0.25	265204.0	1.614267	Y
3	IC 410-162682/5	0.1	0.155794	0.25	274940.0	1.55794	Y
4	ICIS 410-162682/2	0.5	0.772822	0.25	268442.0	1.545645	Y
5	IC 410-162682/4	1.0	1.606999	0.25	280198.0	1.606999	Y
6	IC 410-162682/3	2.5	3.782862	0.25	292508.0	1.513145	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

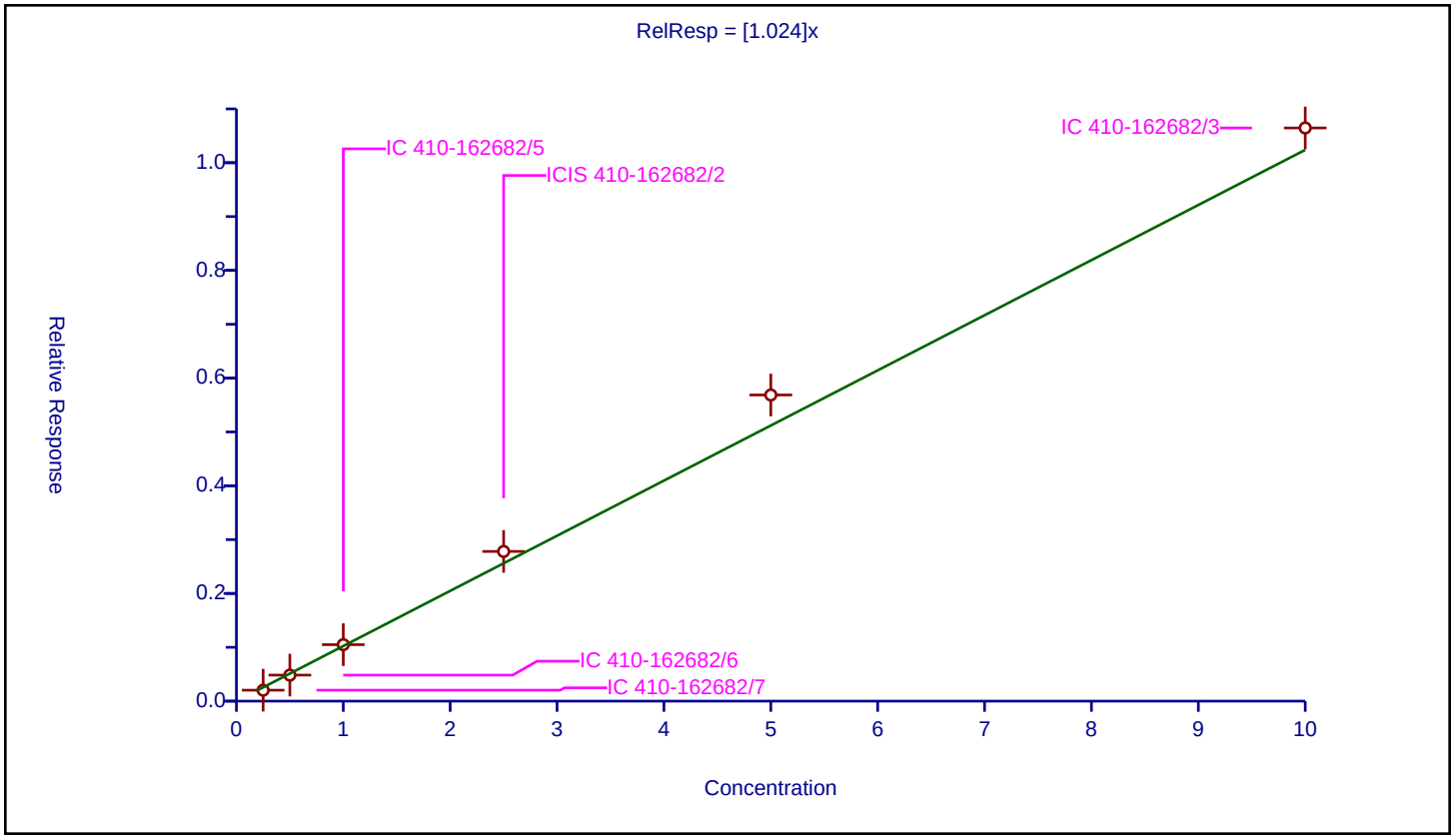
Curve Coefficients

Intercept:	0
Slope:	1.024

Error Coefficients

Standard Error:	6420000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.25	0.203315	0.25	266453.0	0.813262	Y
2	IC 410-162682/6	0.5	0.483435	0.25	265204.0	0.966871	Y
3	IC 410-162682/5	1.0	1.049166	0.25	274940.0	1.049166	Y
4	ICIS 410-162682/2	2.5	2.78022	0.25	268442.0	1.112088	Y
5	IC 410-162682/4	5.0	5.686781	0.25	280198.0	1.137356	Y
6	IC 410-162682/3	10.0	10.645969	0.25	292508.0	1.064597	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

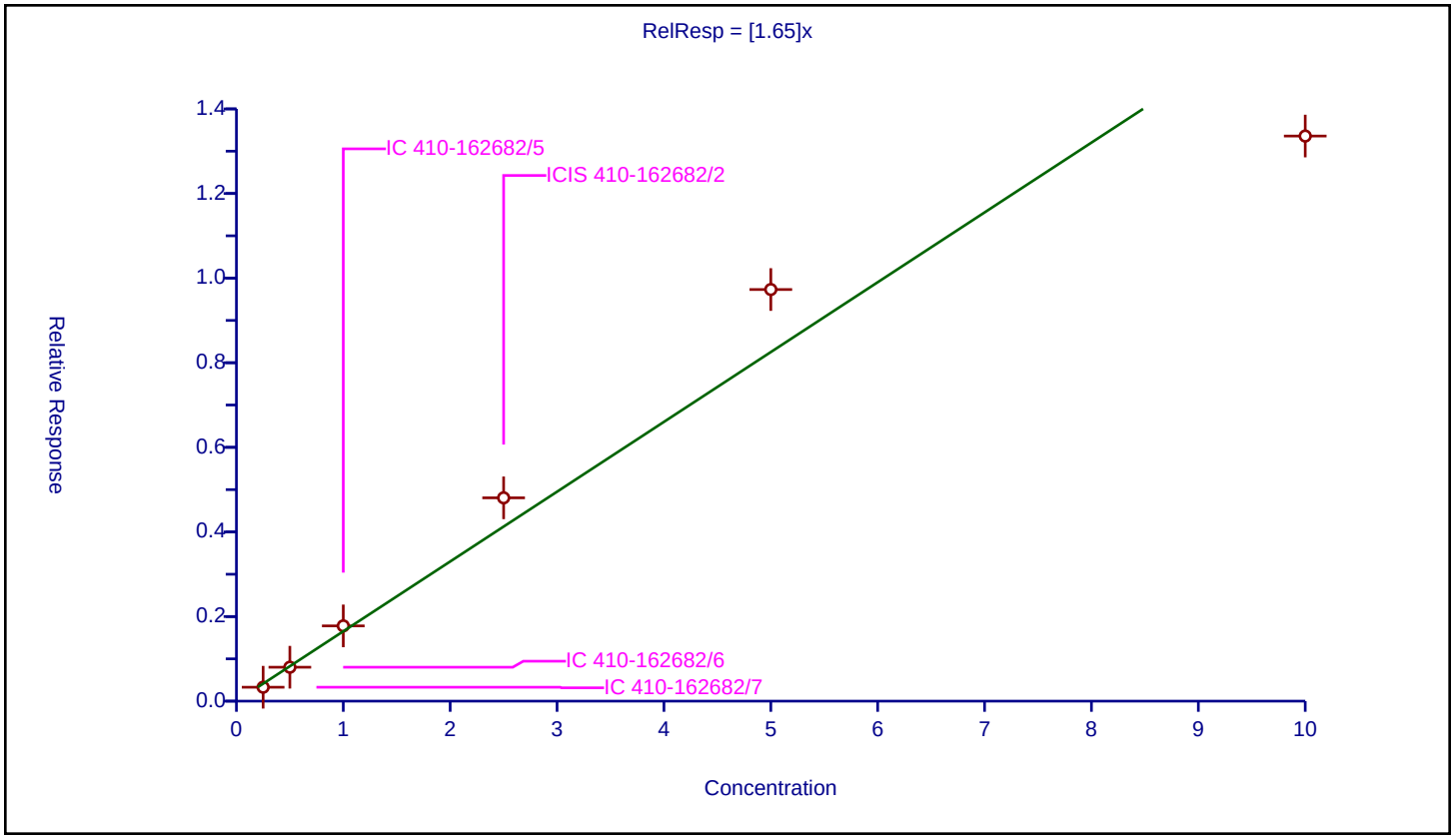
Curve Coefficients

Intercept:	0
Slope:	1.65

Error Coefficients

Standard Error:	9080000
Relative Standard Error:	17.0
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.25	0.328873	0.25	255600.0	1.315493	Y
2	IC 410-162682/6	0.5	0.80158	0.25	259953.0	1.603159	Y
3	IC 410-162682/5	1.0	1.779191	0.25	271623.0	1.779191	Y
4	ICIS 410-162682/2	2.5	4.805797	0.25	265388.0	1.922319	Y
5	IC 410-162682/4	5.0	9.730161	0.25	279423.0	1.946032	Y
6	IC 410-162682/3	10.0	13.358299	0.25	303876.0	1.33583	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

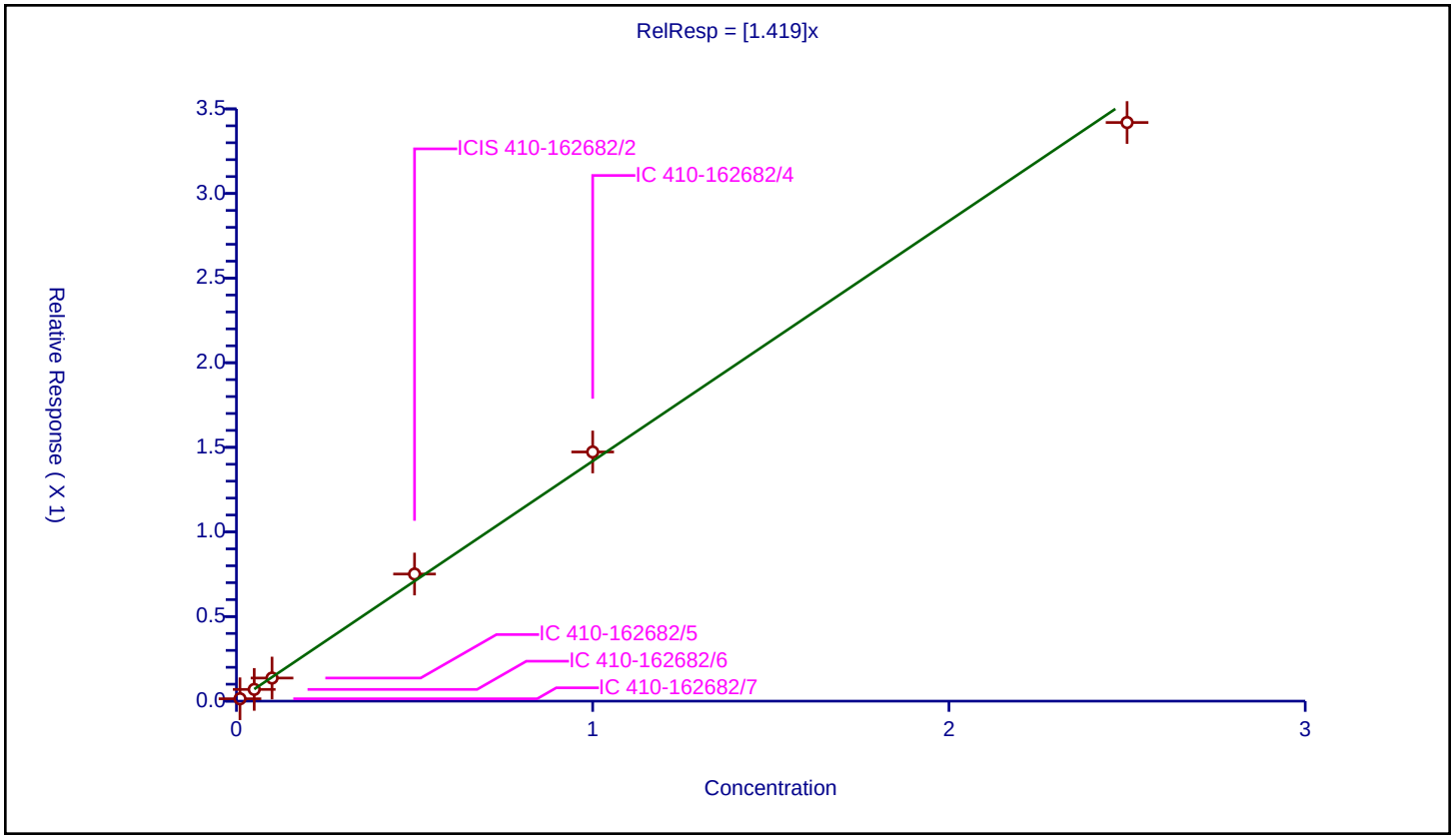
Curve Coefficients

Intercept:	0
Slope:	1.419

Error Coefficients

Standard Error:	2030000
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 410-162682/7	0.01	0.014152	0.25	255600.0	1.4152	Y
2	IC 410-162682/6	0.05	0.0694	0.25	259953.0	1.388001	Y
3	IC 410-162682/5	0.1	0.136581	0.25	271623.0	1.365808	Y
4	ICIS 410-162682/2	0.5	0.751182	0.25	265388.0	1.502364	Y
5	IC 410-162682/4	1.0	1.472484	0.25	279423.0	1.472484	Y
6	IC 410-162682/3	2.5	3.419498	0.25	303876.0	1.367799	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

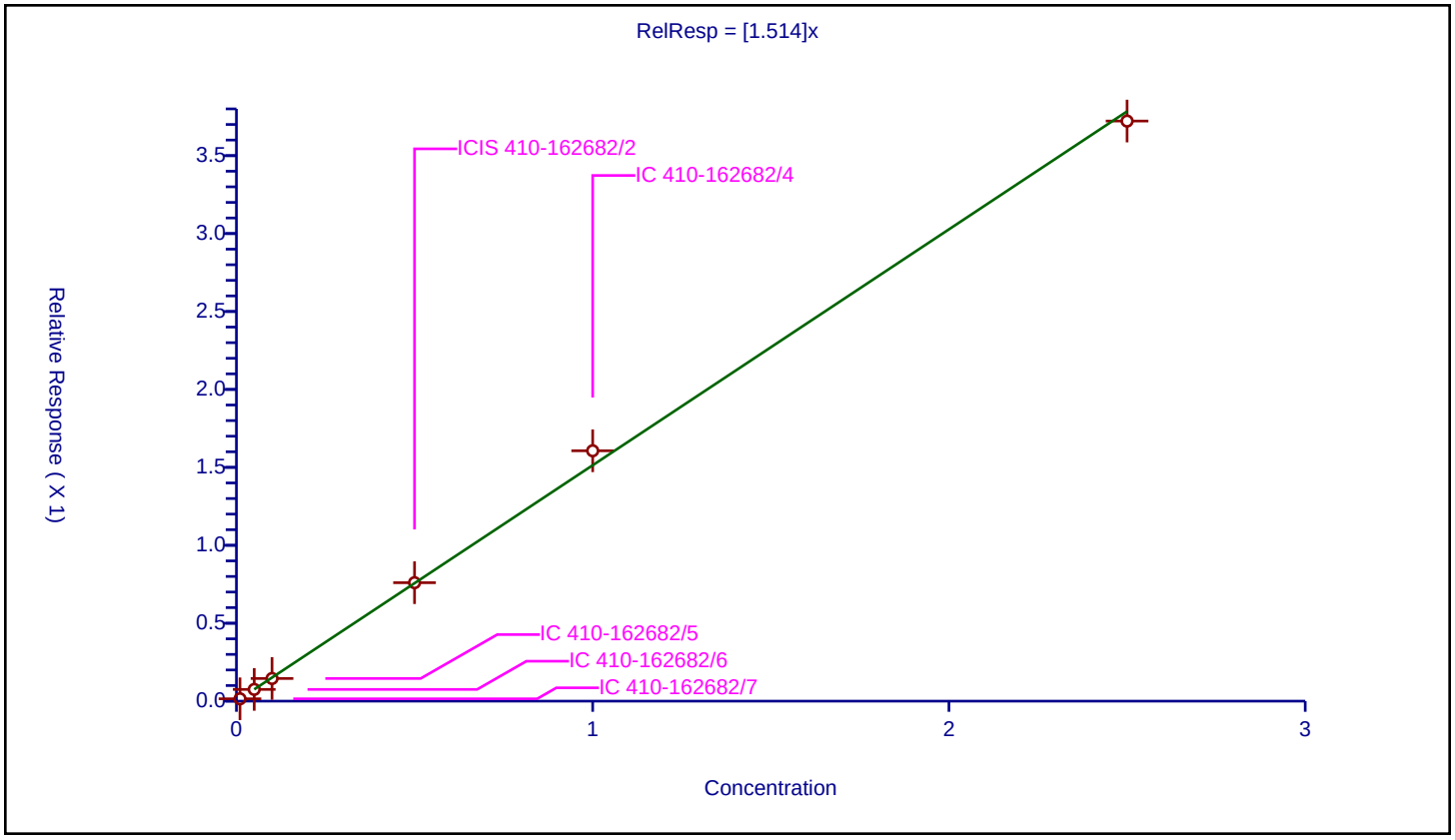
Curve Coefficients

Intercept:	0
Slope:	1.514

Error Coefficients

Standard Error:	2210000
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 410-162682/7	0.01	0.015086	0.25	255600.0	1.508607	Y
2	IC 410-162682/6	0.05	0.075201	0.25	259953.0	1.504022	Y
3	IC 410-162682/5	0.1	0.145342	0.25	271623.0	1.453421	Y
4	ICIS 410-162682/2	0.5	0.760057	0.25	265388.0	1.520114	Y
5	IC 410-162682/4	1.0	1.606409	0.25	279423.0	1.606409	Y
6	IC 410-162682/3	2.5	3.721988	0.25	303876.0	1.488795	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

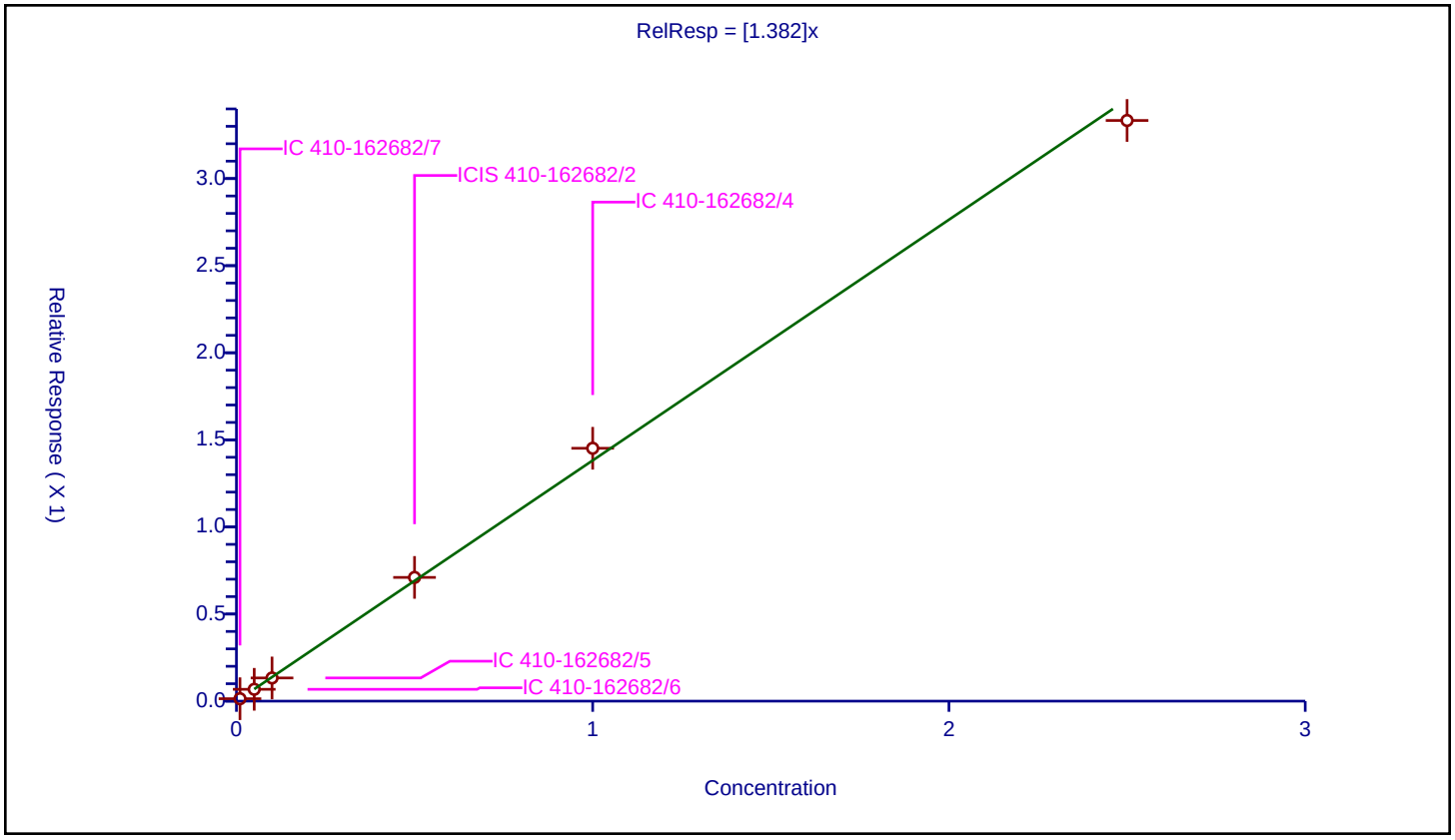
Curve Coefficients

Intercept:	0
Slope:	1.382

Error Coefficients

Standard Error:	1980000
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 410-162682/7	0.01	0.01395	0.25	255600.0	1.394953	Y
2	IC 410-162682/6	0.05	0.06798	0.25	259953.0	1.359592	Y
3	IC 410-162682/5	0.1	0.133124	0.25	271623.0	1.331239	Y
4	ICIS 410-162682/2	0.5	0.710258	0.25	265388.0	1.420516	Y
5	IC 410-162682/4	1.0	1.451798	0.25	279423.0	1.451798	Y
6	IC 410-162682/3	2.5	3.333416	0.25	303876.0	1.333366	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

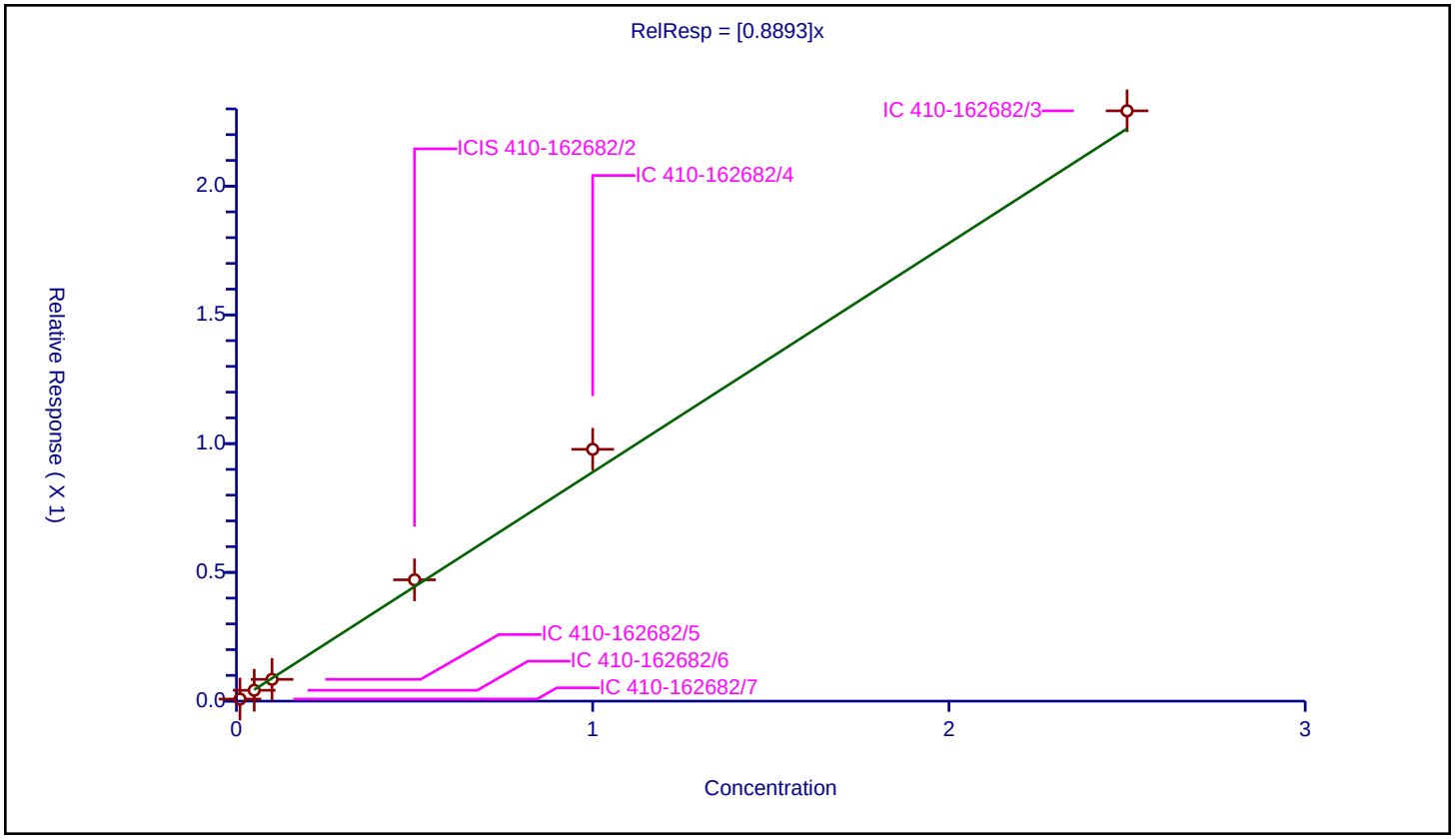
Curve Coefficients

Intercept:	0
Slope:	0.8893

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.008098	0.25	255600.0	0.809761	Y
2	IC 410-162682/6	0.05	0.042145	0.25	259953.0	0.842902	Y
3	IC 410-162682/5	0.1	0.084582	0.25	271623.0	0.845823	Y
4	ICIS 410-162682/2	0.5	0.4712	0.25	265388.0	0.942399	Y
5	IC 410-162682/4	1.0	0.977968	0.25	279423.0	0.977968	Y
6	IC 410-162682/3	2.5	2.292438	0.25	303876.0	0.916975	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

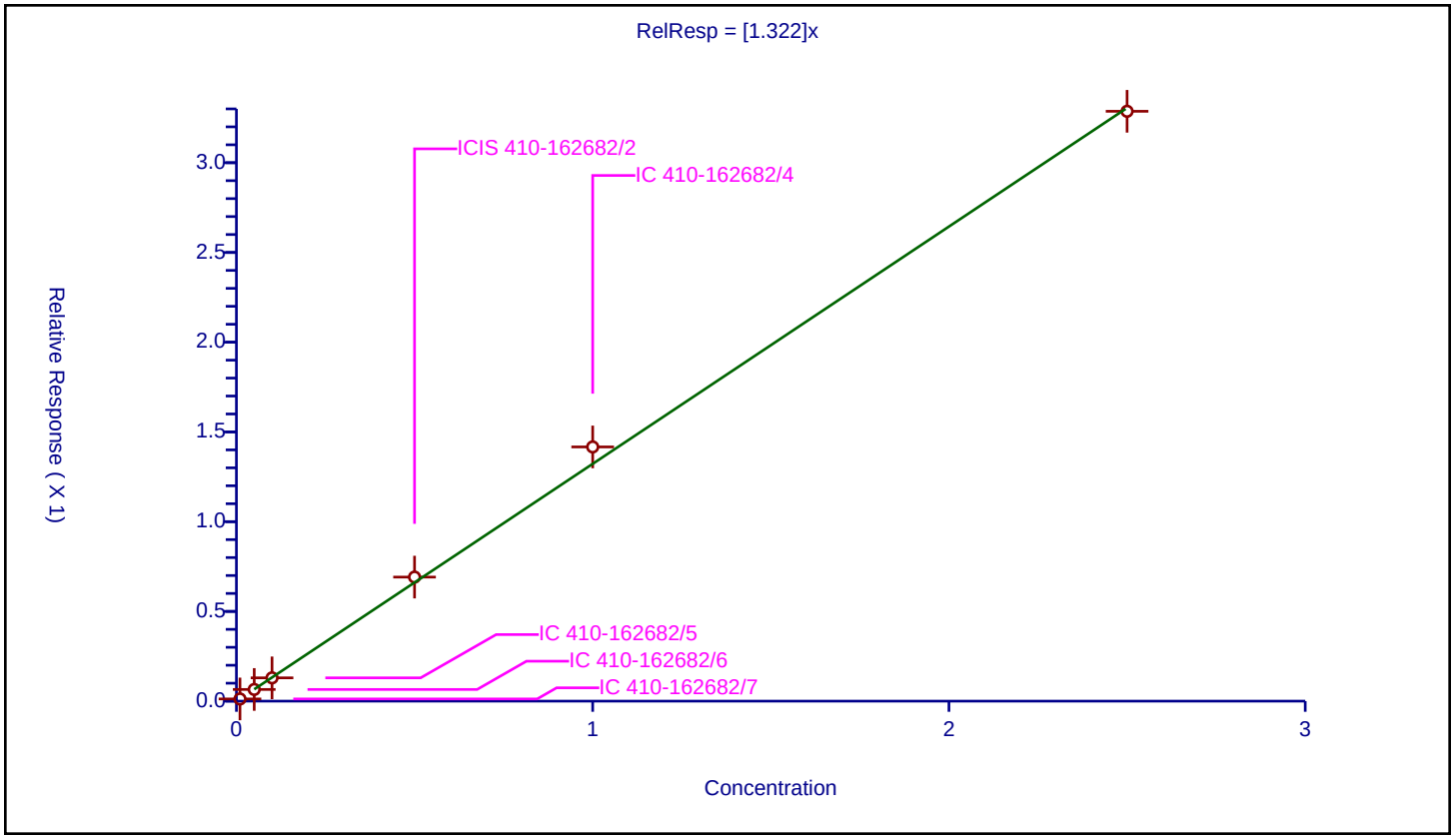
Curve Coefficients

Intercept:	0
Slope:	1.322

Error Coefficients

Standard Error:	1950000
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 410-162682/7	0.01	0.012208	0.25	255600.0	1.220755	Y
2	IC 410-162682/6	0.05	0.065052	0.25	259953.0	1.301043	Y
3	IC 410-162682/5	0.1	0.129766	0.25	271623.0	1.297663	Y
4	ICIS 410-162682/2	0.5	0.691205	0.25	265388.0	1.38241	Y
5	IC 410-162682/4	1.0	1.416386	0.25	279423.0	1.416386	Y
6	IC 410-162682/3	2.5	3.286661	0.25	303876.0	1.314664	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

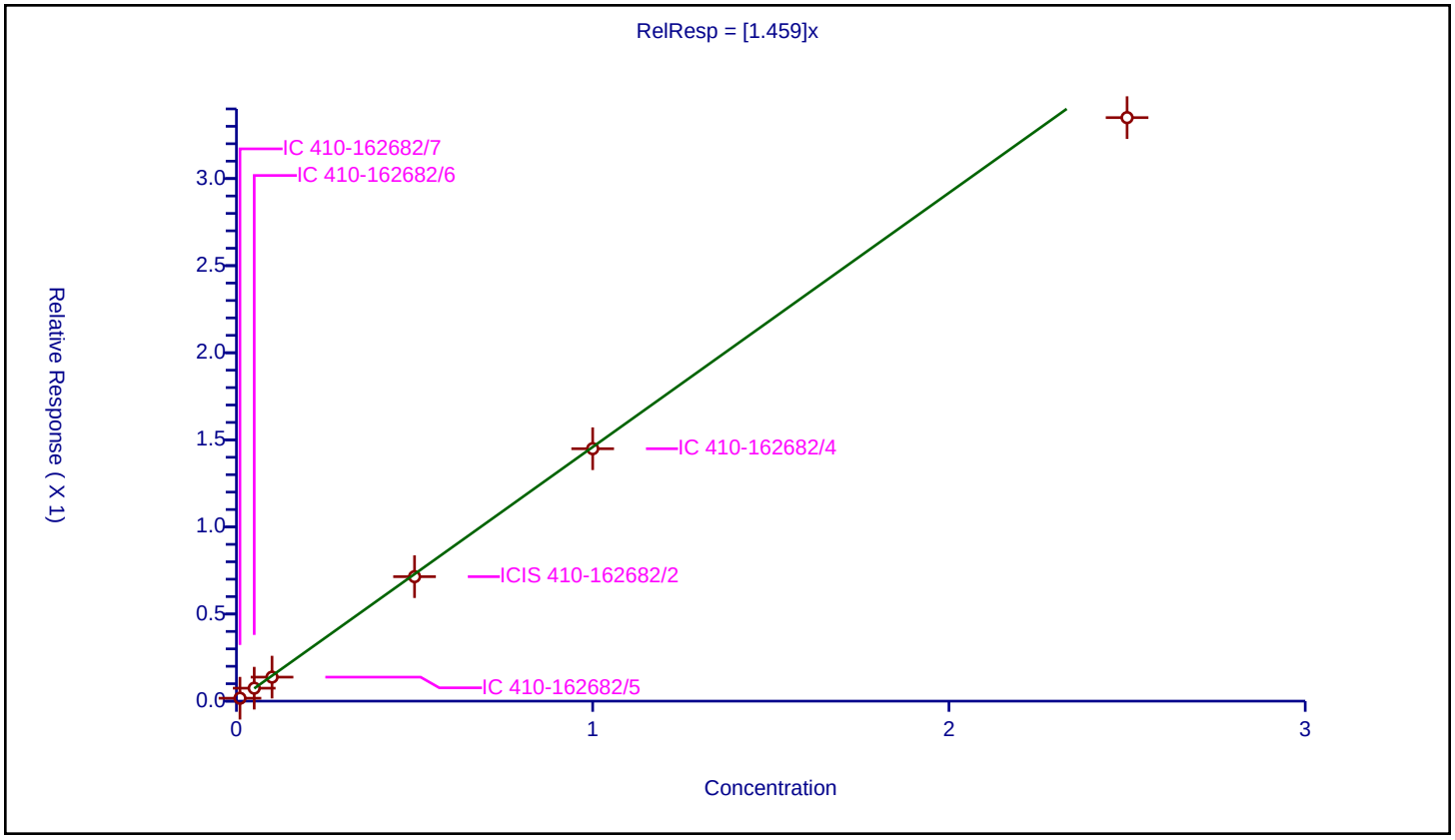
Curve Coefficients

Intercept:	0
Slope:	1.459

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.016677	0.25	255600.0	1.667743	Y
2	IC 410-162682/6	0.05	0.074434	0.25	259953.0	1.488673	Y
3	IC 410-162682/5	0.1	0.137845	0.25	271623.0	1.378455	Y
4	ICIS 410-162682/2	0.5	0.714656	0.25	265388.0	1.429313	Y
5	IC 410-162682/4	1.0	1.449185	0.25	279423.0	1.449185	Y
6	IC 410-162682/3	2.5	3.349795	0.25	303876.0	1.339918	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

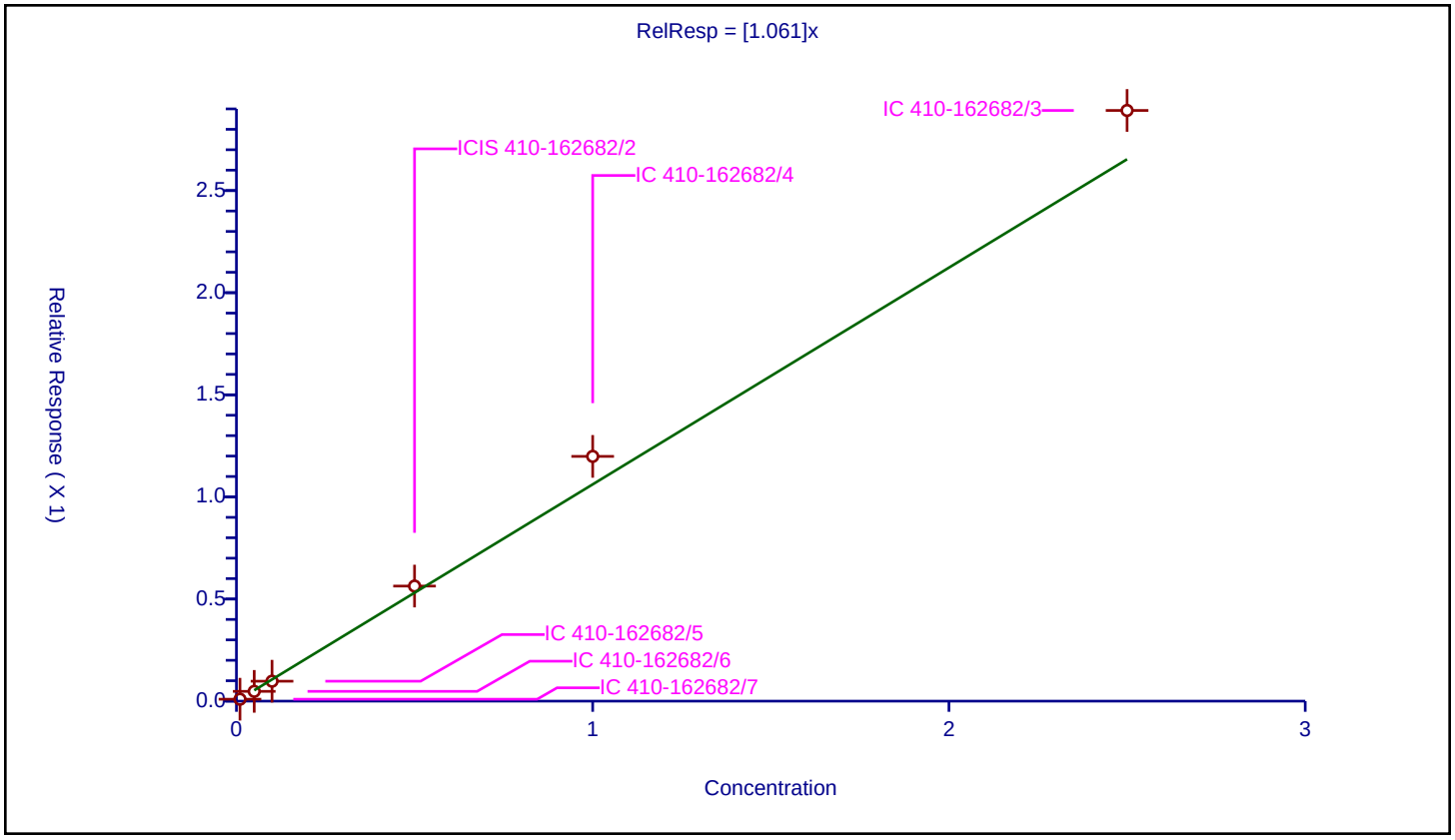
Curve Coefficients

Intercept:	0
Slope:	1.061

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-162682/7	0.01	0.009504	0.25	255600.0	0.950411	Y
2	IC 410-162682/6	0.05	0.047948	0.25	259953.0	0.958962	Y
3	IC 410-162682/5	0.1	0.097639	0.25	271623.0	0.97639	Y
4	ICIS 410-162682/2	0.5	0.563525	0.25	265388.0	1.12705	Y
5	IC 410-162682/4	1.0	1.198468	0.25	279423.0	1.198468	Y
6	IC 410-162682/3	2.5	2.892253	0.25	303876.0	1.156901	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

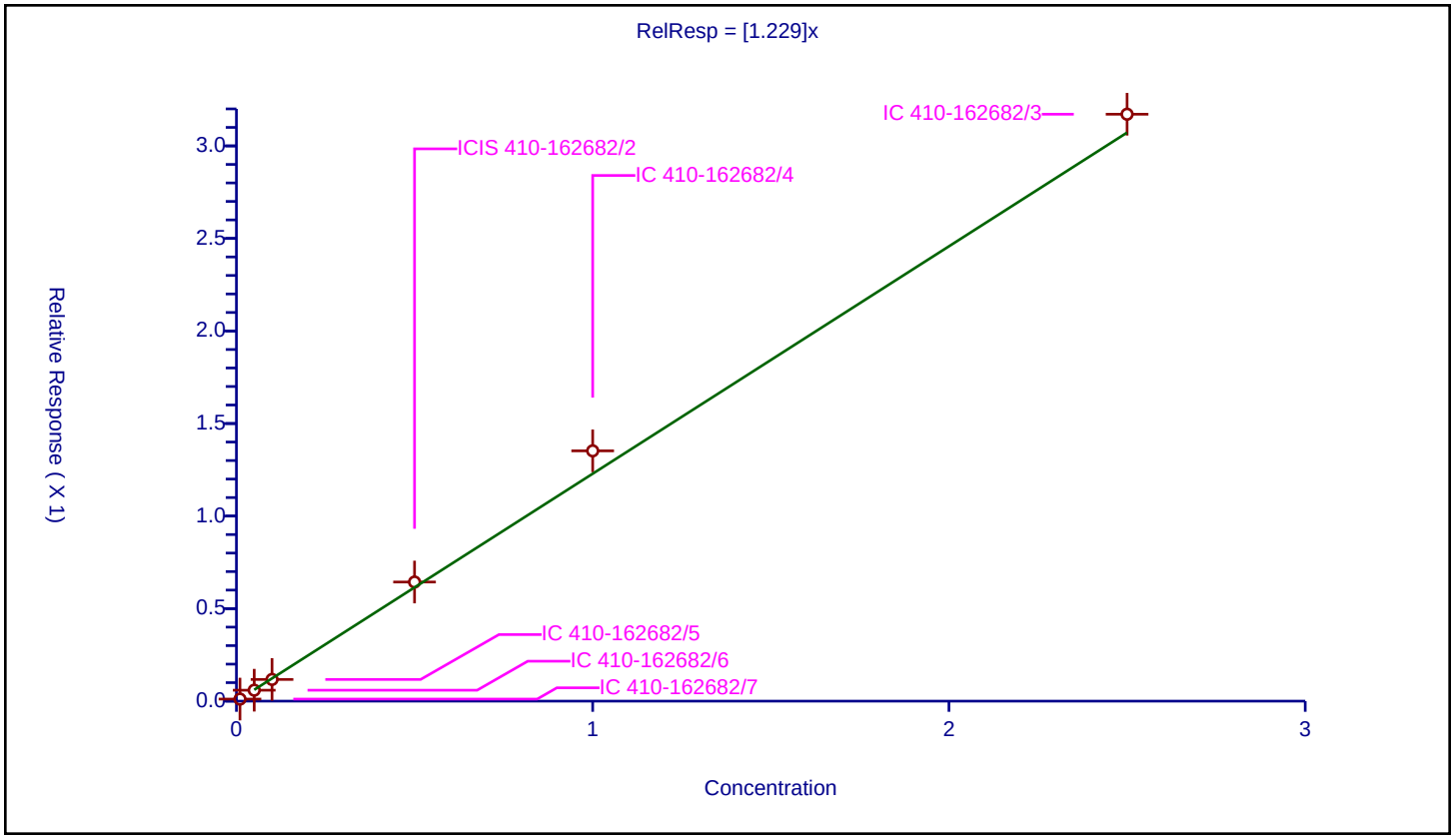
Curve Coefficients

Intercept:	0
Slope:	1.229

Error Coefficients

Standard Error:	1880000
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 410-162682/7	0.01	0.011107	0.25	255600.0	1.11072	Y
2	IC 410-162682/6	0.05	0.059088	0.25	259953.0	1.181752	Y
3	IC 410-162682/5	0.1	0.117207	0.25	271623.0	1.172075	Y
4	ICIS 410-162682/2	0.5	0.643558	0.25	265388.0	1.287115	Y
5	IC 410-162682/4	1.0	1.352385	0.25	279423.0	1.352385	Y
6	IC 410-162682/3	2.5	3.171177	0.25	303876.0	1.268471	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

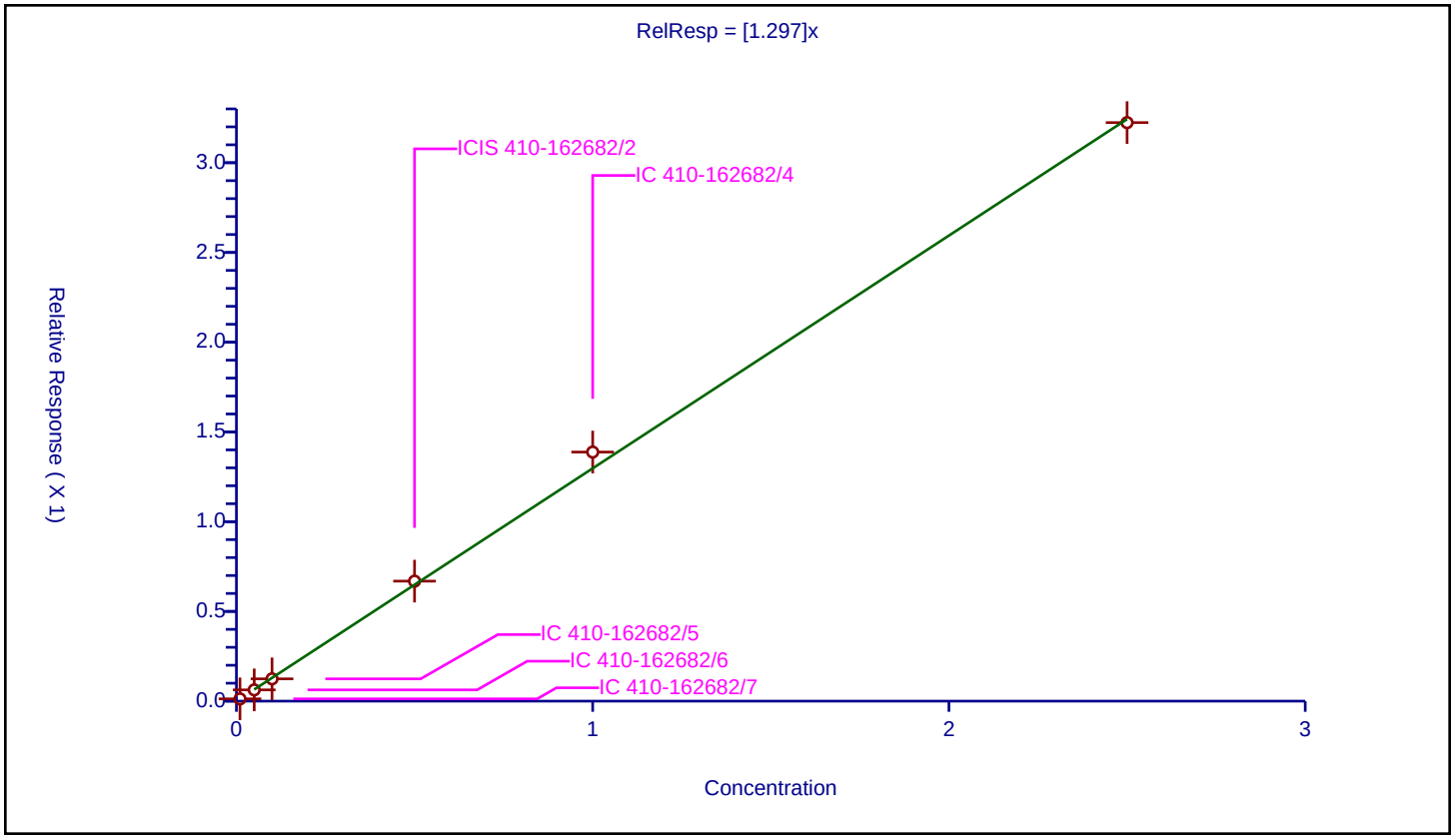
Curve Coefficients

Intercept:	0
Slope:	1.297

Error Coefficients

Standard Error:	1910000
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 410-162682/7	0.01	0.012713	0.25	255600.0	1.271322	Y
2	IC 410-162682/6	0.05	0.062744	0.25	259953.0	1.254881	Y
3	IC 410-162682/5	0.1	0.124174	0.25	271623.0	1.241739	Y
4	ICIS 410-162682/2	0.5	0.668615	0.25	265388.0	1.337231	Y
5	IC 410-162682/4	1.0	1.387854	0.25	279423.0	1.387854	Y
6	IC 410-162682/3	2.5	3.223497	0.25	303876.0	1.289399	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 180399

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2021 04:21 Calibration End Date: 10/08/2021 06:57 Calibration ID: 31373

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-180399/7	NJ0606.D
Level 2	IC 410-180399/6	NJ0605.D
Level 3	IC 410-180399/5	NJ0604.D
Level 4	ICIS 410-180399/2	NJ0601.D
Level 5	IC 410-180399/4	NJ0603.D
Level 6	IC 410-180399/3	NJ0602.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	0.6311 0.4573	0.5249	0.4998	0.4705	0.4716	Ave		0.5092				12.7		20.4			
N-Nitrosodimethylamine	0.5873 0.5445	0.5303	0.5073	0.5561	0.5933	Ave		0.5531				6.0		20.4			
Bis(2-chloroethyl)ether	0.2846 0.3329	0.3303	0.3142	0.3290	0.3508	Ave		0.3236				6.9		20.4			
Naphthalene	1.1937 1.0404	1.1839	1.0771	1.0704	1.0662	Ave		1.1053				6.0		20.4			
Quinoline	+++++ 0.6476	0.6598	0.6388	0.6748	0.6730	Ave		0.6588				2.4		20.4			
2-Methylnaphthalene	0.8036 0.7043	0.7881	0.7321	0.7418	0.7373	Ave		0.7512				5.0		20.4			
1-Methylnaphthalene	0.7321 0.6599	0.7340	0.6687	0.6754	0.6616	Ave		0.6886				5.1		20.4			
Dimethylphthalate	1.4850 1.3703	1.5537	1.4714	1.4148	1.4261	Ave		1.4536				4.4		20.4			
Acenaphthylene	2.2857 2.0415	2.2029	2.1342	2.1132	2.2341	Ave		2.1686				4.1		20.4			
Acenaphthene	1.0708 1.1479	1.2550	1.1879	1.1924	1.2452	Ave		1.1832				5.7		20.4			
Dibenzofuran	2.1344 1.8865	2.1016	1.9895	2.0673	2.0536	Ave		2.0388				4.4		20.4			
Diethylphthalate	1.5065 1.4544	1.5965	1.5579	1.5296	1.5705	Ave		1.5359				3.3		20.4			
Fluorene	1.5910 1.4655	1.5534	1.5092	1.5287	1.5103	Ave		1.5264				2.8		20.4			
N-Nitrosodiphenylamine	0.6474 0.4542	0.4966	0.5079	0.4861	0.5026	Ave		0.5158				13.0		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 180399

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2021 04:21 Calibration End Date: 10/08/2021 06:57 Calibration ID: 31373

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	0.3634 0.3347	0.3459	0.3189	0.3306	0.3269	Ave		0.3367				4.7		20.4			
Phenanthrene	1.4007 1.2527	1.2816	1.2027	1.2265	1.2688	Ave		1.2722				5.4		20.4			
Anthracene	1.1832 1.1810	1.1200	1.1171	1.1512	1.1589	Ave		1.1519				2.5		20.4			
Di-n-butyl phthalate	1.2466 1.3641	1.2971	1.3023	1.2740	1.3767	Ave		1.3101				3.9		20.4			
Fluoranthene	1.4511 1.2856	1.3762	1.3103	1.3275	1.3550	Ave		1.3509				4.3		20.4			
Pyrene	1.9399 1.6861	1.8602	1.8244	1.7019	1.7481	Ave		1.7934				5.5		20.4			
Butylbenzylphthalate	0.6713 0.7953	0.7708	0.7828	0.7611	0.8312	Ave		0.7688				7.0		20.4			
Benzo[a]anthracene	1.6219 1.4541	1.4993	1.4488	1.5042	1.5640	Ave		1.5154				4.4		20.4			
Chrysene	1.5822 1.3582	1.4943	1.4928	1.4165	1.4488	Ave		1.4655				5.2		20.4			
Bis(2-ethylhexyl) phthalate	0.9580 1.2481	1.0966	1.1514	1.0983	1.2245	Ave		1.1295				9.3		20.4			
Di-n-octyl phthalate	1.7586 1.8703	1.9608	1.9658	1.9275	2.0851	Ave		1.9280				5.6		20.4			
Benzo[b]fluoranthene	1.6213 1.4246	1.5581	1.5341	1.4717	1.4568	Ave		1.5111				4.9		20.4			
Benzo[k]fluoranthene	1.6627 1.4191	1.6378	1.5812	1.5579	1.6083	Ave		1.5778				5.5		20.4			
Benzo[e]pyrene	1.5596 1.3511	1.5272	1.4724	1.4516	1.4475	Ave		1.4682				4.9		20.4			
Benzo[a]pyrene	1.4312 1.2987	1.3872	1.3606	1.3963	1.4201	Ave		1.3823				3.5		20.4			
Perylene	1.4148 1.3670	1.4202	1.4016	1.4070	1.4539	Ave		1.4108				2.0		20.4			
Indeno[1,2,3-cd]pyrene	0.7870 1.1231	0.8093	0.8766	1.0831	1.1267	Ave		0.9676				16.6		20.4			
Dibenz(a,h)anthracene	0.7249 1.1824	0.8200	0.8742	1.1023	1.1658	Ave		0.9782				20.0		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 180399

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2021 04:21 Calibration End Date: 10/08/2021 06:57 Calibration ID: 31373

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	1.0247 1.2216	1.0403	1.0949	1.2402	1.2527	Ave		1.1457				9.1		20.4			
1-Methylnaphthalene-d10 (Surr)	0.5126 0.5030	0.5265	0.5007	0.5145	0.5112	Ave		0.5114				1.8		20.4			
Fluoranthene-d10 (Surr)	1.0741 0.9542	1.0454	0.9898	1.0269	1.0197	Ave		1.0184				4.1		20.4			
Benzo(a)pyrene-d12 (Surr)	0.9156 0.9189	0.8877	0.9154	0.9549	0.9448	Ave		0.9229				2.6		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-57303-1 Analy Batch No.: 180399

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2021 04:21 Calibration End Date: 10/08/2021 06:57 Calibration ID: 31373

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-180399/7	NJ0606.D
Level 2	IC 410-180399/6	NJ0605.D
Level 3	IC 410-180399/5	NJ0604.D
Level 4	ICIS 410-180399/2	NJ0601.D
Level 5	IC 410-180399/4	NJ0603.D
Level 6	IC 410-180399/3	NJ0602.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	2029 345420	7813	16157	67311	146381	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	1888 411248	7893	16398	79550	184124	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	2811 780218	15542	30992	143857	344792	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	11789 2438296	55702	106256	468060	1047982	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	+++++ 1517744	31040	63020	295077	661505	+++++ 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	7936 1650722	37080	72219	324372	724706	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	7230 1546569	34534	65964	295313	650258	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	192594 6861649	381912	754517	1626043	3534016	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	11858 2555549	54149	109437	485733	1107216	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	5555 1436896	30848	60912	274086	617149	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	11073 2361558	51658	102018	475178	1017763	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	195383 7282366	392435	798847	1757942	3891867	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	8254	38183	77390	351390	748517	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.: 410-57303-1 Analy Batch No.: 180399

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2021 04:21 Calibration End Date: 10/08/2021 06:57 Calibration ID: 31373

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
			1834497					2.50				
N-Nitrosodiphenylamine	PHN	Ave	6221 985588	23083	48551	212559	454272	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	3492 726268	16079	30484	144554	295475	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	13459 2717965	59572	114975	536280	1146814	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	11369 2562431	52062	106789	503367	1047484	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	299463 11838891	602922	1244900	2785292	6221922	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	13943 2789386	63969	125260	580462	1224770	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	14979 3002888	66964	132798	611379	1275819	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	129582 5665863	277494	569795	1367029	3033136	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	12523 2589655	53974	105459	540361	1141462	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	12217 2418876	53794	108660	508858	1057317	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	184925 8891371	394773	838085	1972677	4468196	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	305685 14042633	647893	1350128	3306589	7526239	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	11273 2674105	51482	105362	504927	1051673	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	11561 2663718	54116	108602	534509	1161024	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	10844 2536181	50460	101126	498049	1044965	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	9951 2437732	45837	93446	479056	1025180	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	9837 2566059	46927	96262	482729	1049596	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	5472	26741	60209	371598	813387	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.: 410-57303-1 Analy Batch No.: 180399

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/08/2021 04:21 Calibration End Date: 10/08/2021 06:57 Calibration ID: 31373

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
			2108131					2.50				
Dibenz(a,h)anthracene	PRY	Ave	5040 2219428	27093	60038	378194	841577	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	7125 2293090	34373	75201	425498	904373	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	5062 1178955	24773	49394	224982	502425	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	10321 2070422	48594	94618	449004	921729	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	6366 1724888	29331	62868	327637	682031	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\HP23263\20211008-41032.b\NJ0601.D
Lims ID: ICIS I4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Oct-2021 04:21:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0041032-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:00 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:39:49

	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	2.608	2.608	0.000	92	67311	0.5000	0.4620	
	2 N-Nitrosodimethylamine	74	2.892	2.892	0.000	95	79550	0.5000	0.5027	
	3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	88	143857	0.5000	0.5083	
*	4 1,4-Dichlorobenzene-d4	152	6.305	6.305	0.000	99	71530	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.304	8.304	0.000	100	218637	0.2500	0.2500	
	6 Naphthalene	128	8.342	8.342	0.000	100	468060	0.5000	0.4842	
	7 Quinoline	129	8.879	8.879	0.000	99	295077	0.5000	0.5121	
	8 2-Methylnaphthalene	142	9.475	9.475	0.000	99	324372	0.5000	0.4937	
$	9 1-Methylnaphthalene-d10	152	9.575	9.575	0.000	99	224982	0.5000	0.5030	
	10 1-Methylnaphthalene	142	9.625	9.625	0.000	97	295313	0.5000	0.4904	
	11 Dimethyl phthalate	163	10.797	10.797	0.000	100	1626043	2.50	2.43	
	12 Acenaphthylene	152	10.927	10.927	0.000	68	485733	0.5000	0.4872	
*	13 Acenaphthene-d10	164	11.167	11.167	0.000	98	114928	0.2500	0.2500	
	14 Acenaphthene	154	11.207	11.207	0.000	96	274086	0.5000	0.5039	
	15 Dibenzofuran	168	11.470	11.470	0.000	100	475178	0.5000	0.5070	
	16 Diethyl phthalate	149	11.848	11.848	0.000	99	1757942	2.50	2.49	
	17 Fluorene	166	11.925	11.925	0.000	96	351390	0.5000	0.5008	
	18 N-Nitrosodiphenylamine	169	12.103	12.103	0.000	98	212559	0.5000	0.4712	
	19 Hexachlorobenzene	284	12.597	12.597	0.000	93	144554	0.5000	0.4909	
*	20 Phenanthrene-d10	188	13.084	13.084	0.000	100	218624	0.2500	0.2500	
	21 Phenanthrene	178	13.114	13.114	0.000	100	536280	0.5000	0.4821	
	22 Anthracene	178	13.176	13.176	0.000	99	503367	0.5000	0.4997	
	23 Di-n-butyl phthalate	149	13.928	13.928	0.000	100	2785292	2.50	2.43	
$	24 Fluoranthene-d10 (Surr)	212	14.737	14.737	0.000	98	449004	0.5000	0.5042	
	25 Fluoranthene	202	14.768	14.768	0.000	97	580462	0.5000	0.4913	
	26 Pyrene	202	15.107	15.107	0.000	96	611379	0.5000	0.4745	
	27 Butyl benzyl phthalate	149	16.268	16.268	0.000	100	1367029	2.50	2.48	
	28 Benzo[a]anthracene	228	17.134	17.134	0.000	100	540361	0.5000	0.4963	
*	29 Chrysene-d12	240	17.150	17.150	0.000	99	179612	0.2500	0.2500	
	30 Chrysene	228	17.196	17.196	0.000	100	508858	0.5000	0.4833	

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	17.357	17.357	0.000	100	1972677	2.50	2.43	
32 Di-n-octyl phthalate	149	18.523	18.523	0.000	100	3306589	2.50	2.50	
33 Benzo[b]fluoranthene	252	18.998	18.998	0.000	100	504927	0.5000	0.4870	
34 Benzo[k]fluoranthene	252	19.052	19.052	0.000	100	534509	0.5000	0.4937	
35 Benzo[e]pyrene	252	19.451	19.451	0.000	100	498049	0.5000	0.4943	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.497	19.497	0.000	96	327637	0.5000	0.5174	
37 Benzo[a]pyrene	252	19.535	19.535	0.000	100	479056	0.5000	0.5050	
* 38 Perylene-d12	264	19.627	19.627	0.000	95	171547	0.2500	0.2500	
39 Perylene	252	19.665	19.665	0.000	100	482729	0.5000	0.4987	
40 Indeno[1,2,3-cd]pyrene	276	21.265	21.265	0.000	96	371598	0.5000	0.5597	
41 Dibenz(a,h)anthracene	278	21.314	21.314	0.000	97	378194	0.5000	0.5634	
42 Benzo[g,h,i]perylene	276	21.682	21.682	0.000	98	425498	0.5000	0.5412	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

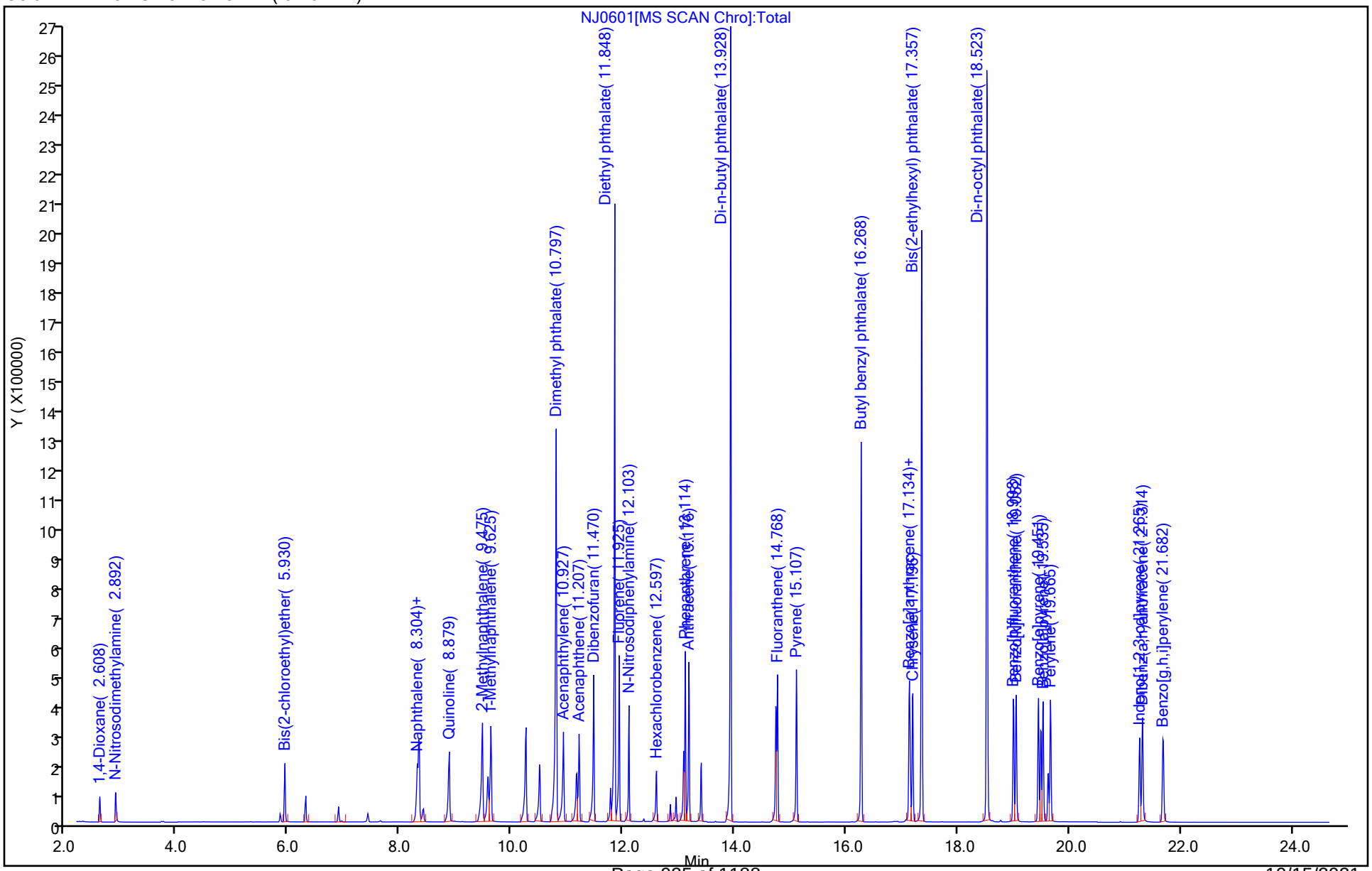
Report Date: 08-Oct-2021 13:46:01 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0601.D

Injection Date:	08-Oct-2021 04:21:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICIS I4			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\20211008-41032.b\NJ0602.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Oct-2021 04:56:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0041032-003
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:02 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:07:46

	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	2.603	2.608	-0.005	93	345420	2.50	2.25	
	2 N-Nitrosodimethylamine	74	2.888	2.892	-0.004	92	411248	2.50	2.46	
	3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	90	780218	2.50	2.57	
*	4 1,4-Dichlorobenzene-d4	152	6.304	6.305	-0.001	99	75533	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.304	8.304	0.000	100	234371	0.2500	0.2500	
	6 Naphthalene	128	8.342	8.342	0.000	99	2438296	2.50	2.35	
	7 Quinoline	129	8.879	8.879	0.000	97	1517744	2.50	2.46	
	8 2-Methylnaphthalene	142	9.474	9.475	-0.001	98	1650722	2.50	2.34	
$	9 1-Methylnaphthalene-d10	152	9.575	9.575	0.000	100	1178955	2.50	2.46	
	10 1-Methylnaphthalene	142	9.635	9.625	0.010	100	1546569	2.50	2.40	
	11 Dimethyl phthalate	163	10.806	10.797	0.009	98	6861649	10.0	9.43	
	12 Acenaphthylene	152	10.927	10.927	0.000	99	2555549	2.50	2.35	
*	13 Acenaphthene-d10	164	11.167	11.167	0.000	94	125181	0.2500	0.2500	
	14 Acenaphthene	154	11.217	11.207	0.010	95	1436896	2.50	2.43	
	15 Dibenzofuran	168	11.477	11.470	0.007	98	2361558	2.50	2.31	
	16 Diethyl phthalate	149	11.856	11.848	0.008	100	7282366	10.0	9.47	
	17 Fluorene	166	11.933	11.925	0.008	99	1834497	2.50	2.40	
	18 N-Nitrosodiphenylamine	169	12.103	12.103	0.000	88	985588	2.50	2.20	
	19 Hexachlorobenzene	284	12.597	12.597	0.000	98	726268	2.50	2.49	
*	20 Phenanthrene-d10	188	13.083	13.084	-0.001	100	216977	0.2500	0.2500	
	21 Phenanthrene	178	13.114	13.114	0.000	99	2717965	2.50	2.46	
	22 Anthracene	178	13.184	13.176	0.008	99	2562431	2.50	2.56	
	23 Di-n-butyl phthalate	149	13.934	13.928	0.006	99	11838891	10.0	10.4	e
$	24 Fluoranthene-d10 (Surr)	212	14.743	14.737	0.006	99	2070422	2.50	2.34	
	25 Fluoranthene	202	14.774	14.768	0.006	95	2789386	2.50	2.38	
	26 Pyrene	202	15.113	15.107	0.006	97	3002888	2.50	2.35	
	27 Butyl benzyl phthalate	149	16.283	16.268	0.015	100	5665863	10.0	10.3	
	28 Benzo[a]anthracene	228	17.142	17.134	0.008	98	2589655	2.50	2.40	
*	29 Chrysene-d12	240	17.157	17.150	0.007	54	178099	0.2500	0.2500	
	30 Chrysene	228	17.203	17.196	0.007	100	2418876	2.50	2.32	

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	17.364	17.357	0.007	100	8891371	10.0	11.1	
32 Di-n-octyl phthalate	149	18.538	18.523	0.015	99	14042633	10.0	9.70	e
33 Benzo[b]fluoranthene	252	19.013	18.998	0.015	100	2674105	2.50	2.36	
34 Benzo[k]fluoranthene	252	19.059	19.052	0.007	100	2663718	2.50	2.25	
35 Benzo[e]pyrene	252	19.458	19.451	0.007	100	2536181	2.50	2.30	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.512	19.497	0.015	97	1724888	2.50	2.49	
37 Benzo[a]pyrene	252	19.550	19.535	0.015	100	2437732	2.50	2.35	
* 38 Perylene-d12	264	19.635	19.627	0.008	95	187710	0.2500	0.2500	
39 Perylene	252	19.681	19.665	0.016	100	2566059	2.50	2.42	
40 Indeno[1,2,3-cd]pyrene	276	21.279	21.265	0.014	98	2108131	2.50	2.90	
41 Dibenz(a,h)anthracene	278	21.328	21.314	0.014	98	2219428	2.50	3.02	
42 Benzo[g,h,i]perylene	276	21.710	21.682	0.028	99	2293090	2.50	2.67	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

MSS_RVSIM_6_00011 Amount Added: 1.00 Units: mL

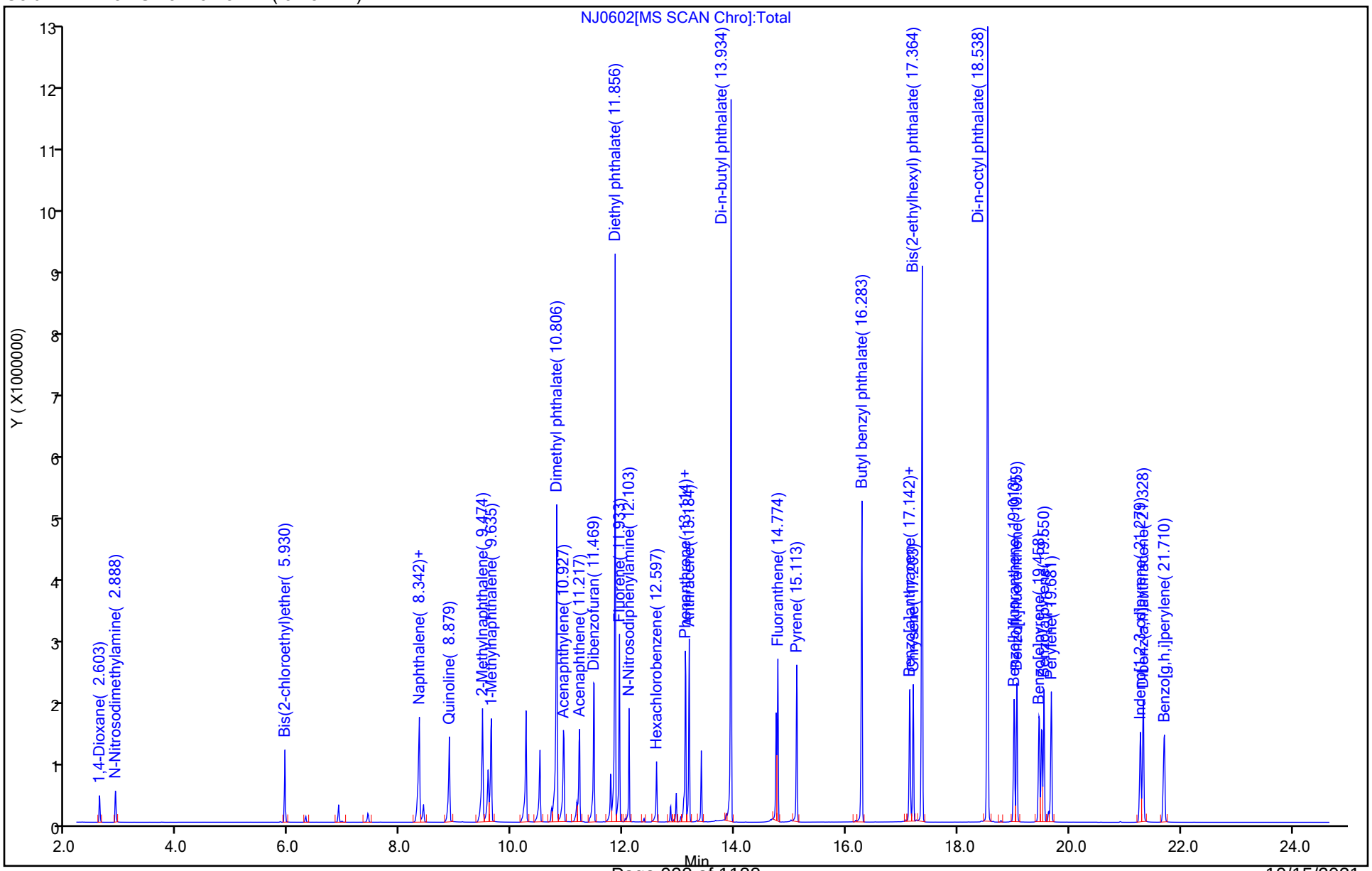
Report Date: 08-Oct-2021 13:46:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0602.D

Injection Date:	08-Oct-2021 04:56:30	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\20211008-41032.b\NJ0603.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Oct-2021 05:26:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0041032-004
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:05 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:08:07

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	2.612	2.608	0.004	94	146381	1.00	0.9262	
2 N-Nitrosodimethylamine	74	2.897	2.892	0.005	94	184124	1.00	1.07	
3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	89	344792	1.00	1.08	
* 4 1,4-Dichlorobenzene-d4	152	6.305	6.305	0.000	100	77590	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.304	8.304	0.000	100	245720	0.2500	0.2500	
6 Naphthalene	128	8.342	8.342	0.000	100	1047982	1.00	0.9647	
7 Quinoline	129	8.879	8.879	0.000	99	661505	1.00	1.02	
8 2-Methylnaphthalene	142	9.477	9.475	0.002	100	724706	1.00	0.9815	
$ 9 1-Methylnaphthalene-d10	152	9.577	9.575	0.002	99	502425	1.00	1.00	
10 1-Methylnaphthalene	142	9.627	9.625	0.002	97	650258	1.00	0.9608	
11 Dimethyl phthalate	163	10.799	10.797	0.002	99	3534016	5.00	4.91	
12 Acenaphthylene	152	10.929	10.927	0.002	68	1107216	1.00	1.03	
* 13 Acenaphthene-d10	164	11.160	11.167	-0.007	89	123902	0.2500	0.2500	
14 Acenaphthene	154	11.210	11.207	0.003	96	617149	1.00	1.05	
15 Dibenzofuran	168	11.472	11.470	0.002	100	1017763	1.00	1.01	
16 Diethyl phthalate	149	11.850	11.848	0.002	100	3891867	5.00	5.11	
17 Fluorene	166	11.928	11.925	0.003	97	748517	1.00	0.9895	
18 N-Nitrosodiphenylamine	169	12.105	12.103	0.002	99	454272	1.00	0.9743	
19 Hexachlorobenzene	284	12.599	12.597	0.002	92	295475	1.00	0.9708	
* 20 Phenanthrene-d10	188	13.086	13.084	0.002	100	225972	0.2500	0.2500	
21 Phenanthrene	178	13.117	13.114	0.003	100	1146814	1.00	1.00	
22 Anthracene	178	13.179	13.176	0.003	99	1047484	1.00	1.01	
23 Di-n-butyl phthalate	149	13.929	13.928	0.001	100	6221922	5.00	5.25	
$ 24 Fluoranthene-d10 (Surr)	212	14.738	14.737	0.001	98	921729	1.00	1.00	
25 Fluoranthene	202	14.769	14.768	0.001	97	1224770	1.00	1.00	
26 Pyrene	202	15.108	15.107	0.001	97	1275819	1.00	0.9747	
27 Butyl benzyl phthalate	149	16.276	16.268	0.008	100	3033136	5.00	5.41	
28 Benzo[a]anthracene	228	17.135	17.134	0.001	99	1141462	1.00	1.03	
* 29 Chrysene-d12	240	17.151	17.150	0.001	83	182453	0.2500	0.2500	
30 Chrysene	228	17.197	17.196	0.001	100	1057317	1.00	0.9886	

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	17.358	17.357	0.001	99	4468196	5.00	5.42	
32 Di-n-octyl phthalate	149	18.531	18.523	0.008	100	7526239	5.00	5.41	
33 Benzo[b]fluoranthene	252	19.007	18.998	0.009	100	1051673	1.00	0.9641	
34 Benzo[k]fluoranthene	252	19.053	19.052	0.001	100	1161024	1.00	1.02	
35 Benzo[e]pyrene	252	19.452	19.451	0.001	100	1044965	1.00	0.9859	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.498	19.497	0.001	98	682031	1.00	1.02	
37 Benzo[a]pyrene	252	19.536	19.535	0.001	100	1025180	1.00	1.03	
* 38 Perylene-d12	264	19.628	19.627	0.001	95	180479	0.2500	0.2500	
39 Perylene	252	19.666	19.665	0.001	100	1049596	1.00	1.03	
40 Indeno[1,2,3-cd]pyrene	276	21.266	21.265	0.001	98	813387	1.00	1.16	
41 Dibenz(a,h)anthracene	278	21.315	21.314	0.001	98	841577	1.00	1.19	
42 Benzo[g,h,i]perylene	276	21.690	21.682	0.008	99	904373	1.00	1.09	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_5_00013 Amount Added: 1.00 Units: mL

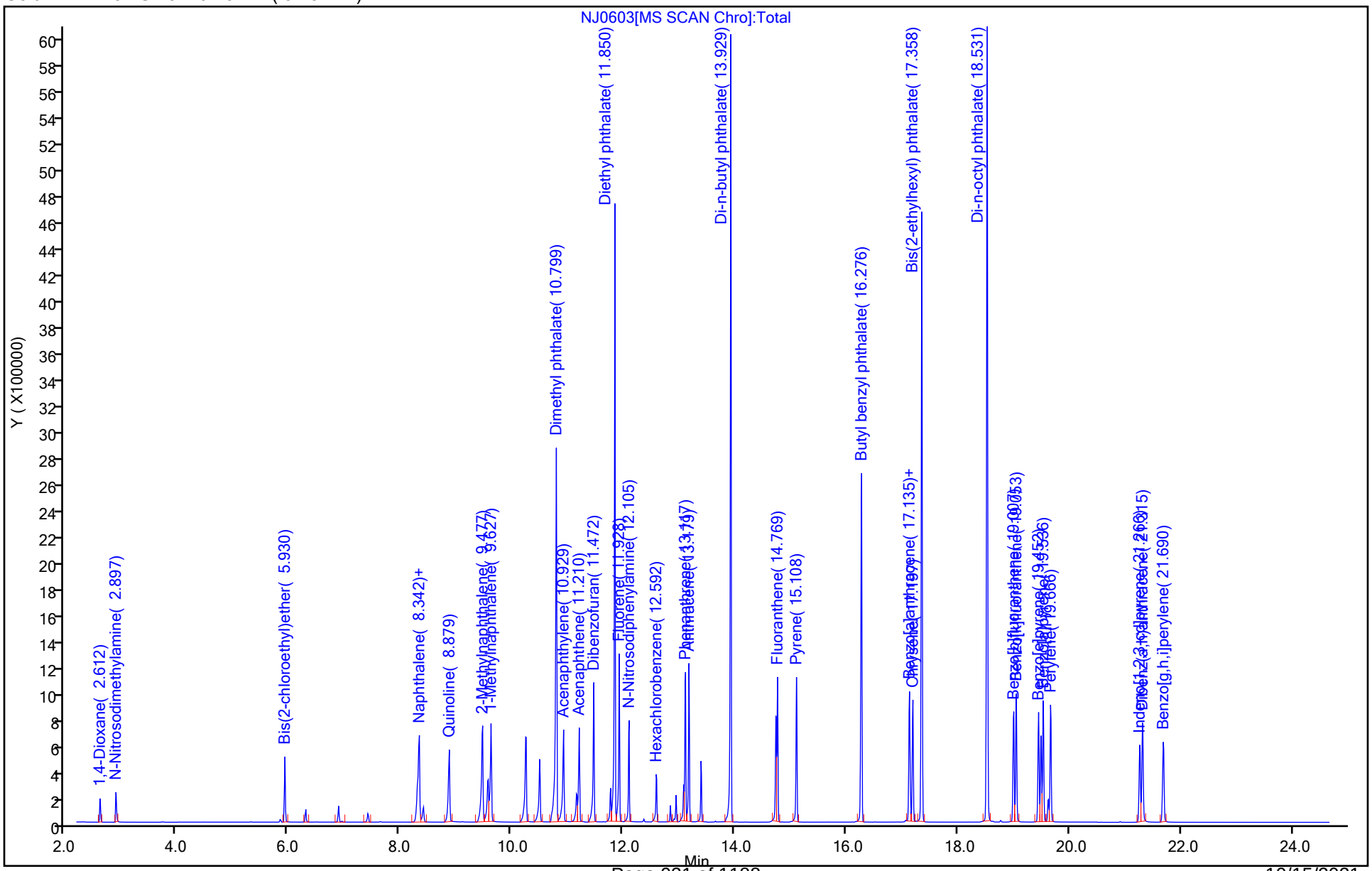
Report Date: 08-Oct-2021 13:46:06 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0603.D

Injection Date:	08-Oct-2021 05:26:30	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\20211008-41032.b\NJ0604.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Oct-2021 05:56:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0041032-005
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:08 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:08:24

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	2.616	2.608	0.008	94	16157	0.1000	0.0982	
2 N-Nitrosodimethylamine	74	2.910	2.892	0.018	96	16398	0.1000	0.0917	
3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	90	30992	0.1000	0.0971	
* 4 1,4-Dichlorobenzene-d4	152	6.305	6.305	0.000	100	80811	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.304	8.304	0.000	100	246618	0.2500	0.2500	
6 Naphthalene	128	8.342	8.342	0.000	100	106256	0.1000	0.0975	
7 Quinoline	129	8.879	8.879	0.000	99	63020	0.1000	0.0970	
8 2-Methylnaphthalene	142	9.477	9.475	0.002	100	72219	0.1000	0.0975	
$ 9 1-Methylnaphthalene-d10	152	9.567	9.575	-0.008	100	49394	0.1000	0.0979	
10 1-Methylnaphthalene	142	9.627	9.625	0.002	97	65964	0.1000	0.0971	
11 Dimethyl phthalate	163	10.799	10.797	0.002	99	754517	1.00	1.01	
12 Acenaphthylene	152	10.929	10.927	0.002	68	109437	0.1000	0.0984	
* 13 Acenaphthene-d10	164	11.160	11.167	-0.007	90	128195	0.2500	0.2500	
14 Acenaphthene	154	11.210	11.207	0.003	94	60912	0.1000	0.1004	
15 Dibenzofuran	168	11.472	11.470	0.002	98	102018	0.1000	0.0976	
16 Diethyl phthalate	149	11.843	11.848	-0.005	100	798847	1.00	1.01	
17 Fluorene	166	11.928	11.925	0.003	97	77390	0.1000	0.0989	
18 N-Nitrosodiphenylamine	169	12.098	12.103	-0.005	96	48551	0.1000	0.0985	
19 Hexachlorobenzene	284	12.592	12.597	-0.005	97	30484	0.1000	0.0947	
* 20 Phenanthrene-d10	188	13.086	13.084	0.002	100	238990	0.2500	0.2500	
21 Phenanthrene	178	13.109	13.114	-0.005	99	114975	0.1000	0.0945	
22 Anthracene	178	13.179	13.176	0.003	99	106789	0.1000	0.0970	
23 Di-n-butyl phthalate	149	13.923	13.928	-0.005	100	1244900	1.00	0.99	
$ 24 Fluoranthene-d10 (Surr)	212	14.738	14.737	0.001	97	94618	0.1000	0.0972	
25 Fluoranthene	202	14.763	14.768	-0.005	98	125260	0.1000	0.0970	
26 Pyrene	202	15.108	15.107	0.001	95	132798	0.1000	0.1017	
27 Butyl benzyl phthalate	149	16.269	16.268	0.001	100	569795	1.00	1.02	
28 Benzo[a]anthracene	228	17.128	17.134	-0.006	99	105459	0.1000	0.0956	
* 29 Chrysene-d12	240	17.143	17.150	-0.007	88	181977	0.2500	0.2500	
30 Chrysene	228	17.189	17.196	-0.007	100	108660	0.1000	0.1019	

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	17.350	17.357	-0.007	99	838085	1.00	1.02	
32 Di-n-octyl phthalate	149	18.524	18.523	0.001	100	1350128	1.00	1.02	
33 Benzo[b]fluoranthene	252	18.999	18.998	0.001	100	105362	0.1000	0.1015	
34 Benzo[k]fluoranthene	252	19.045	19.052	-0.007	100	108602	0.1000	0.1002	
35 Benzo[e]pyrene	252	19.444	19.451	-0.007	100	101126	0.1000	0.1003	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.490	19.497	-0.007	96	62868	0.1000	0.0992	
37 Benzo[a]pyrene	252	19.528	19.535	-0.007	100	93446	0.1000	0.0984	
* 38 Perylene-d12	264	19.620	19.627	-0.007	96	171703	0.2500	0.2500	
39 Perylene	252	19.659	19.665	-0.006	100	96262	0.1000	0.0993	
40 Indeno[1,2,3-cd]pyrene	276	21.259	21.265	-0.006	96	60209	0.1000	0.0906	
41 Dibenz(a,h)anthracene	278	21.308	21.314	-0.006	96	60038	0.1000	0.0894	
42 Benzo[g,h,i]perylene	276	21.676	21.682	-0.006	97	75201	0.1000	0.0956	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_3_00011 Amount Added: 1.00 Units: mL

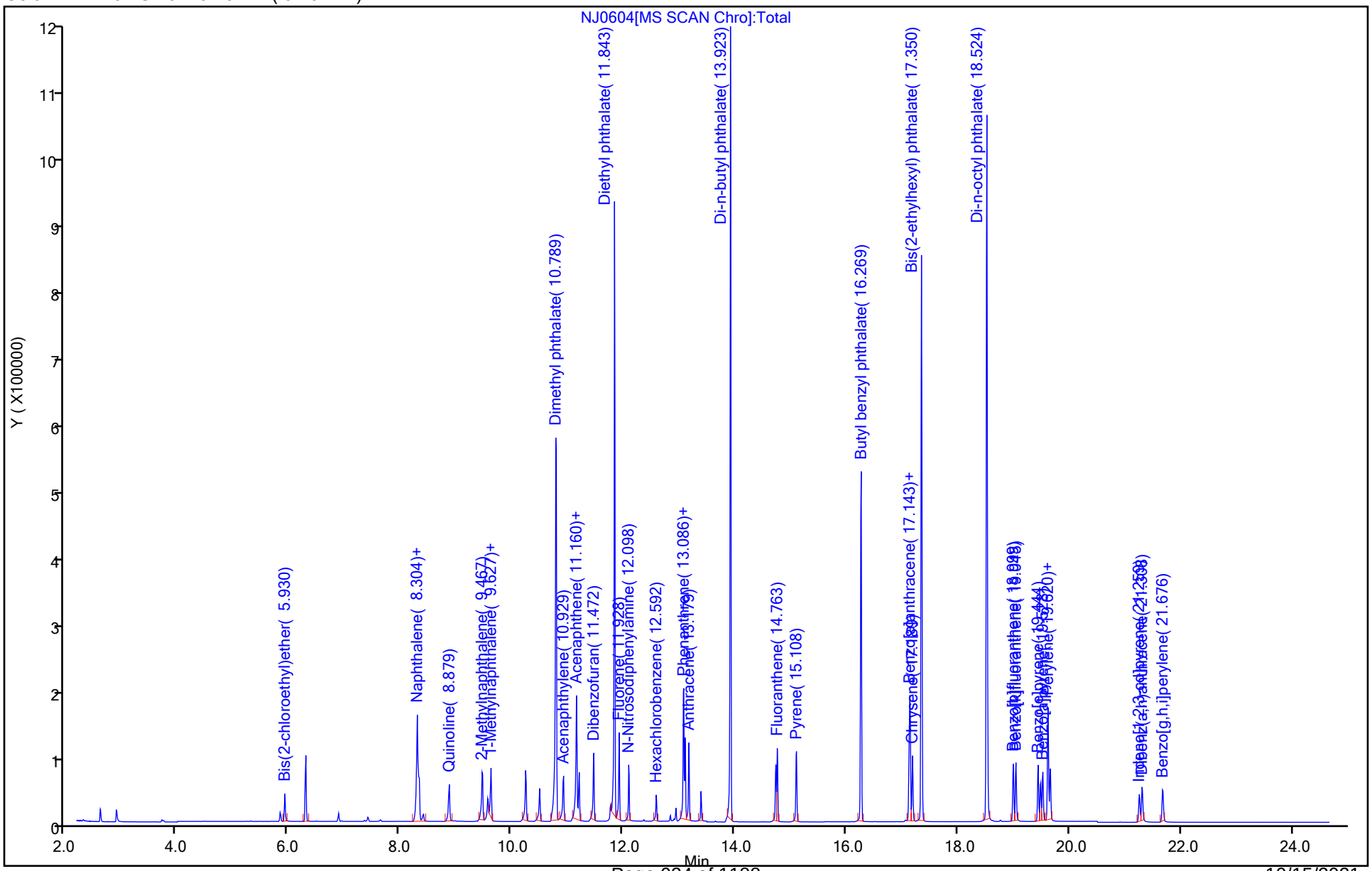
Report Date: 08-Oct-2021 13:46:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0604.D

Injection Date:	08-Oct-2021 05:56:30	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)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0605.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Oct-2021 06:26:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0041032-006
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:08:56

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	2.621	2.608	0.013	92	7813	0.0500	0.0515	
2 N-Nitrosodimethylamine	74	2.914	2.892	0.022	96	7893	0.0500	0.0479	
3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	92	15542	0.0500	0.0510	
* 4 1,4-Dichlorobenzene-d4	152	6.305	6.305	0.000	100	74424	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.304	8.304	0.000	100	235239	0.2500	0.2500	
6 Naphthalene	128	8.342	8.342	0.000	100	55702	0.0500	0.0536	
7 Quinoline	129	8.879	8.879	0.000	99	31040	0.0500	0.0501	
8 2-Methylnaphthalene	142	9.467	9.475	-0.008	94	37080	0.0500	0.0525	
$ 9 1-Methylnaphthalene-d10	152	9.567	9.575	-0.008	100	24773	0.0500	0.0515	
10 1-Methylnaphthalene	142	9.627	9.625	0.002	96	34534	0.0500	0.0533	
11 Dimethyl phthalate	163	10.799	10.797	0.002	99	381912	0.5000	0.5344	
12 Acenaphthylene	152	10.929	10.927	0.002	68	54149	0.0500	0.0508	
* 13 Acenaphthene-d10	164	11.160	11.167	-0.007	92	122904	0.2500	0.2500	
14 Acenaphthene	154	11.210	11.207	0.003	94	30848	0.0500	0.0530	
15 Dibenzofuran	168	11.472	11.470	0.002	99	51658	0.0500	0.0515	
16 Diethyl phthalate	149	11.843	11.848	-0.005	100	392435	0.5000	0.5197	
17 Fluorene	166	11.928	11.925	0.003	95	38183	0.0500	0.0509	
18 N-Nitrosodiphenylamine	169	12.105	12.103	0.002	97	23083	0.0500	0.0481	
19 Hexachlorobenzene	284	12.592	12.597	-0.005	100	16079	0.0500	0.0514	
* 20 Phenanthrene-d10	188	13.086	13.084	0.002	100	232416	0.2500	0.2500	
21 Phenanthrene	178	13.109	13.114	-0.005	99	59572	0.0500	0.0504	
22 Anthracene	178	13.179	13.176	0.003	99	52062	0.0500	0.0486	
23 Di-n-butyl phthalate	149	13.923	13.928	-0.005	100	602922	0.5000	0.4950	
$ 24 Fluoranthene-d10 (Surr)	212	14.738	14.737	0.001	97	48594	0.0500	0.0513	
25 Fluoranthene	202	14.763	14.768	-0.005	97	63969	0.0500	0.0509	
26 Pyrene	202	15.108	15.107	0.001	95	66964	0.0500	0.0519	
27 Butyl benzyl phthalate	149	16.261	16.268	-0.007	100	277494	0.5000	0.5014	
28 Benzo[a]anthracene	228	17.128	17.134	-0.006	95	53974	0.0500	0.0495	
* 29 Chrysene-d12	240	17.143	17.150	-0.007	85	179996	0.2500	0.2500	
30 Chrysene	228	17.189	17.196	-0.007	100	53794	0.0500	0.0510	

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	17.350	17.357	-0.007	99	394773	0.5000	0.4855	
32 Di-n-octyl phthalate	149	18.524	18.523	0.001	100	647893	0.5000	0.5085	
33 Benzo[b]fluoranthene	252	18.999	18.998	0.001	100	51482	0.0500	0.0516	
34 Benzo[k]fluoranthene	252	19.045	19.052	-0.007	100	54116	0.0500	0.0519	
35 Benzo[e]pyrene	252	19.444	19.451	-0.007	100	50460	0.0500	0.0520	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.490	19.497	-0.007	96	29331	0.0500	0.0481	
37 Benzo[a]pyrene	252	19.528	19.535	-0.007	100	45837	0.0500	0.0502	
* 38 Perylene-d12	264	19.620	19.627	-0.007	96	165209	0.2500	0.2500	
39 Perylene	252	19.659	19.665	-0.006	100	46927	0.0500	0.0503	
40 Indeno[1,2,3-cd]pyrene	276	21.259	21.265	-0.006	95	26741	0.0500	0.0418	
41 Dibenz(a,h)anthracene	278	21.308	21.314	-0.006	96	27093	0.0500	0.0419	
42 Benzo[g,h,i]perylene	276	21.675	21.682	-0.007	97	34373	0.0500	0.0454	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_2_00014 Amount Added: 1.00 Units: mL

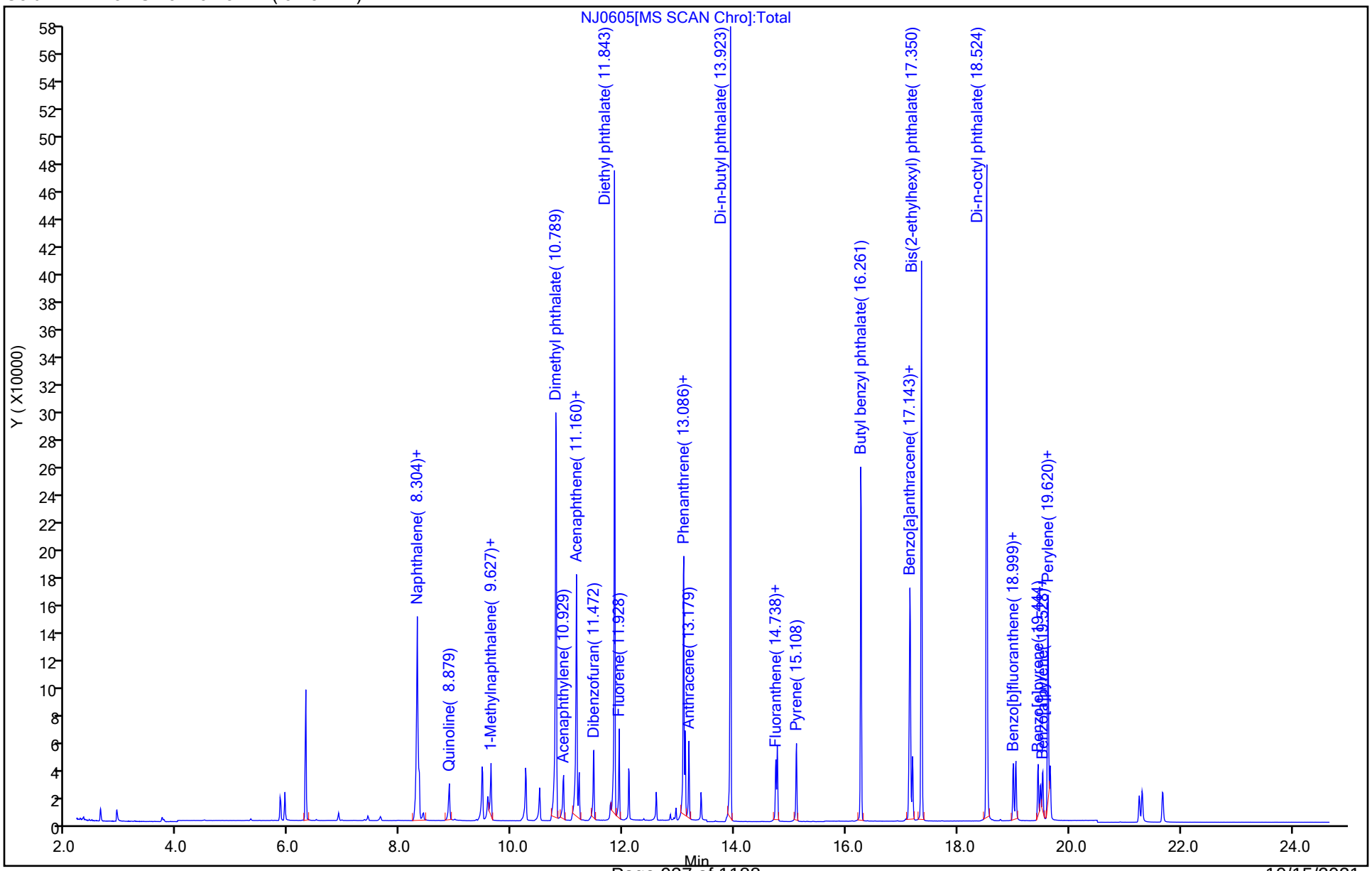
Report Date: 08-Oct-2021 13:46:11 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0605.D

Injection Date:	08-Oct-2021 06:26:30	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\20211008-41032.b\NJ0606.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Oct-2021 06:57:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0041032-007
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:13 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:09:40

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	2.625	2.625	0.000	99	2029	0.0100	0.0124	
2 N-Nitrosodimethylamine	74	2.923	2.923	0.000	98	1888	0.0100	0.0106	M
3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	98	2811	0.0100	0.008795	M
* 4 1,4-Dichlorobenzene-d4	152	6.304	6.304	0.000	100	80372	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.304	8.304	0.000	100	246894	0.2500	0.2500	
6 Naphthalene	128	8.341	8.341	0.000	100	11789	0.0100	0.0108	
7 Quinoline	129	8.879	8.879	0.000	98	5629	0.0100	0.008652	
8 2-Methylnaphthalene	142	9.474	9.474	0.000	98	7936	0.0100	0.0107	
$ 9 1-Methylnaphthalene-d10	152	9.575	9.575	0.000	100	5062	0.0100	0.0100	
10 1-Methylnaphthalene	142	9.625	9.625	0.000	94	7230	0.0100	0.0106	
11 Dimethyl phthalate	163	10.796	10.796	0.000	99	192594	0.2500	0.2554	
12 Acenaphthylene	152	10.927	10.927	0.000	68	11858	0.0100	0.0105	
* 13 Acenaphthene-d10	164	11.157	11.157	0.000	88	129695	0.2500	0.2500	
14 Acenaphthene	154	11.207	11.207	0.000	66	5555	0.0100	0.009050	
15 Dibenzofuran	168	11.469	11.469	0.000	100	11073	0.0100	0.0105	
16 Diethyl phthalate	149	11.840	11.840	0.000	99	195383	0.2500	0.2452	
17 Fluorene	166	11.925	11.925	0.000	94	8254	0.0100	0.0104	
18 N-Nitrosodiphenylamine	169	12.103	12.103	0.000	98	6221	0.0100	0.0126	
19 Hexachlorobenzene	284	12.597	12.597	0.000	93	3492	0.0100	0.0108	
* 20 Phenanthrene-d10	188	13.083	13.083	0.000	100	240218	0.2500	0.2500	
21 Phenanthrene	178	13.114	13.114	0.000	99	13459	0.0100	0.0110	
22 Anthracene	178	13.176	13.176	0.000	99	11369	0.0100	0.0103	
23 Di-n-butyl phthalate	149	13.922	13.922	0.000	100	299463	0.2500	0.2379	
$ 24 Fluoranthene-d10 (Surr)	212	14.737	14.737	0.000	97	10321	0.0100	0.0105	
25 Fluoranthene	202	14.762	14.762	0.000	97	13943	0.0100	0.0107	
26 Pyrene	202	15.107	15.107	0.000	95	14979	0.0100	0.0108	
27 Butyl benzyl phthalate	149	16.268	16.268	0.000	100	129582	0.2500	0.2183	
28 Benzo[a]anthracene	228	17.127	17.127	0.000	64	12523	0.0100	0.0107	
* 29 Chrysene-d12	240	17.142	17.142	0.000	82	193035	0.2500	0.2500	
30 Chrysene	228	17.188	17.188	0.000	100	12217	0.0100	0.0108	

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	17.349	17.349	0.000	99	184925	0.2500	0.2120	
32 Di-n-octyl phthalate	149	18.522	18.522	0.000	100	305685	0.2500	0.2280	
33 Benzo[b]fluoranthene	252	18.998	18.998	0.000	100	11273	0.0100	0.0107	
34 Benzo[k]fluoranthene	252	19.044	19.044	0.000	100	11561	0.0100	0.0105	
35 Benzo[e]pyrene	252	19.443	19.443	0.000	100	10844	0.0100	0.0106	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.489	19.489	0.000	96	6366	0.0100	0.0099	
37 Benzo[a]pyrene	252	19.527	19.527	0.000	100	9951	0.0100	0.0104	
* 38 Perylene-d12	264	19.619	19.619	0.000	96	173824	0.2500	0.2500	
39 Perylene	252	19.658	19.658	0.000	99	9837	0.0100	0.0100	
40 Indeno[1,2,3-cd]pyrene	276	21.258	21.258	0.000	95	5472	0.0100	0.008133	
41 Dibenz(a,h)anthracene	278	21.314	21.314	0.000	96	5040	0.0100	0.007410	
42 Benzo[g,h,i]perylene	276	21.674	21.674	0.000	97	7125	0.0100	0.008944	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00013 Amount Added: 1.00 Units: mL

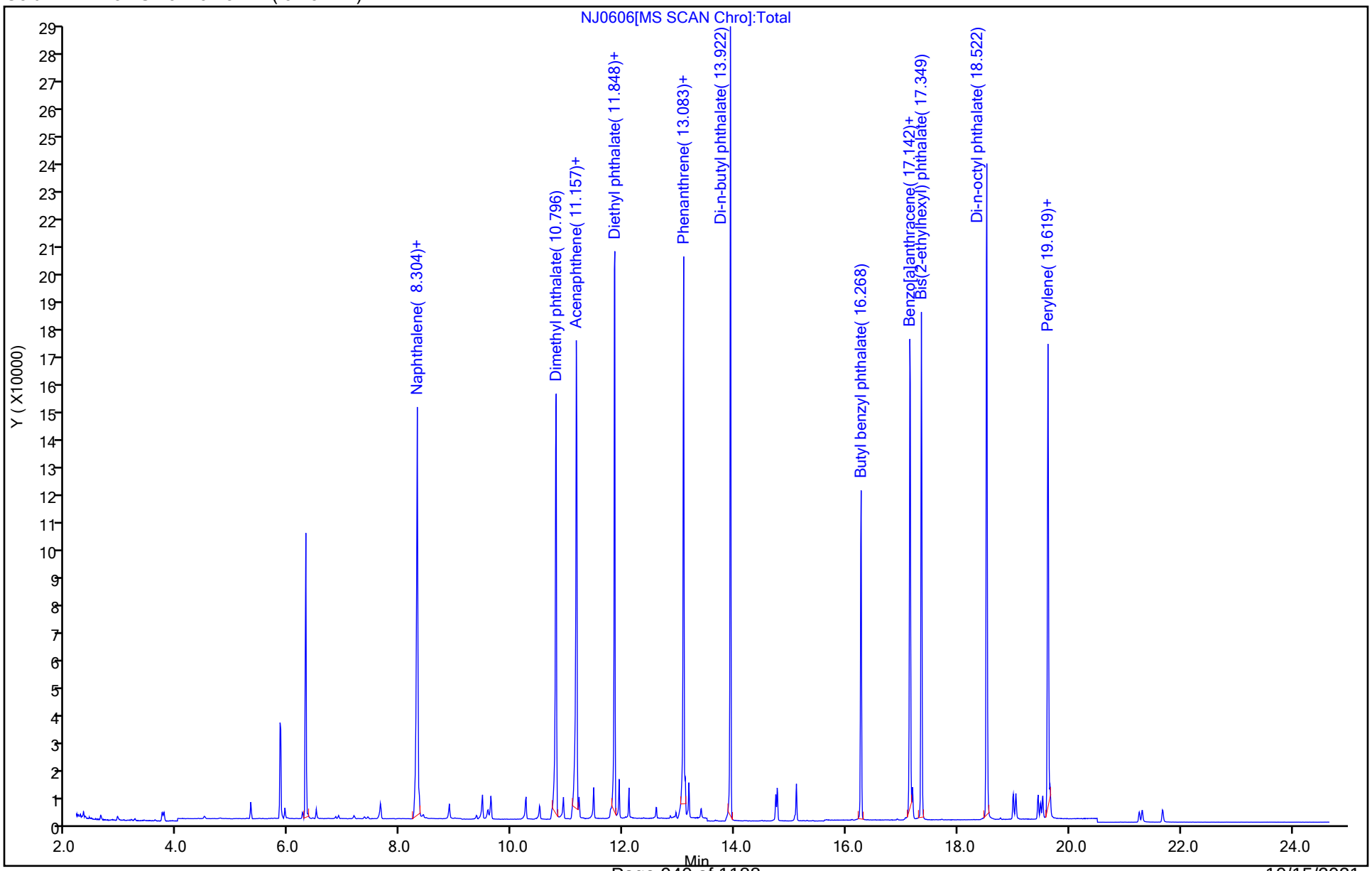
Report Date: 08-Oct-2021 13:46:13 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Injection Date:	08-Oct-2021 06:57:30	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

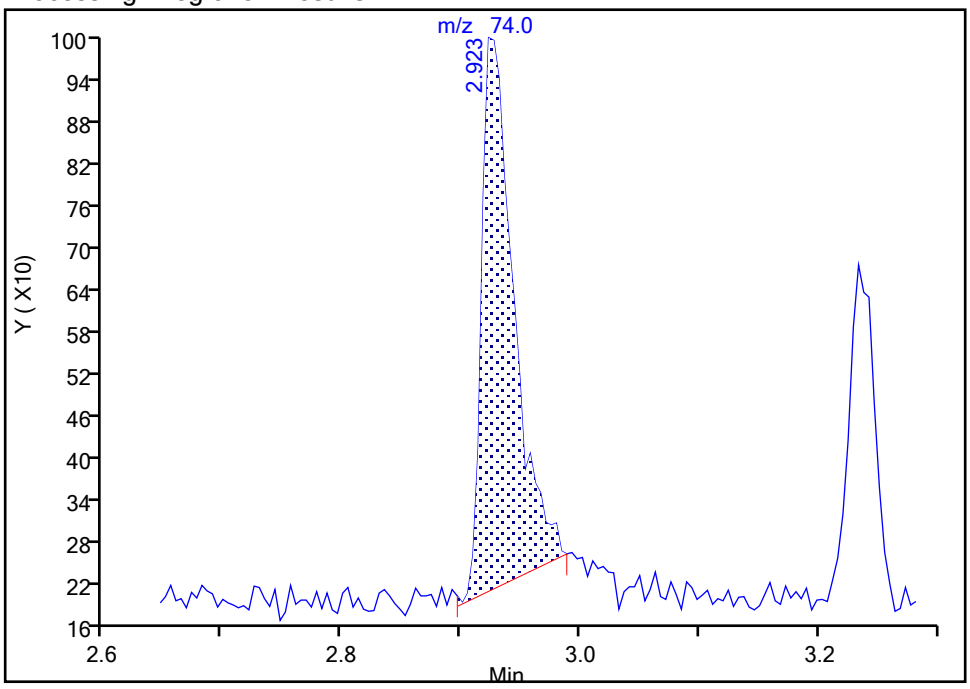
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Injection Date:	08-Oct-2021 06:57:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

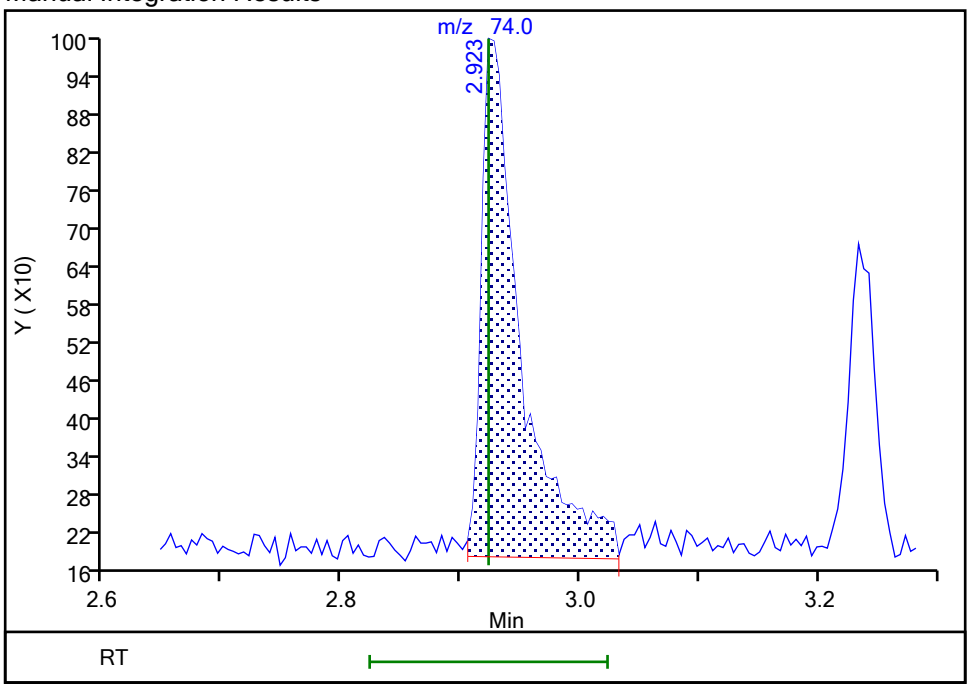
Processing Integration Results

RT: 2.92
Area: 1477
Amount: 0.008639
Amount Units: ug/ml



Manual Integration Results

RT: 2.92
Area: 1888
Amount: 0.010618
Amount Units: ug/ml



Reviewer: saadehw, 08-Oct-2021 13:09:33

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

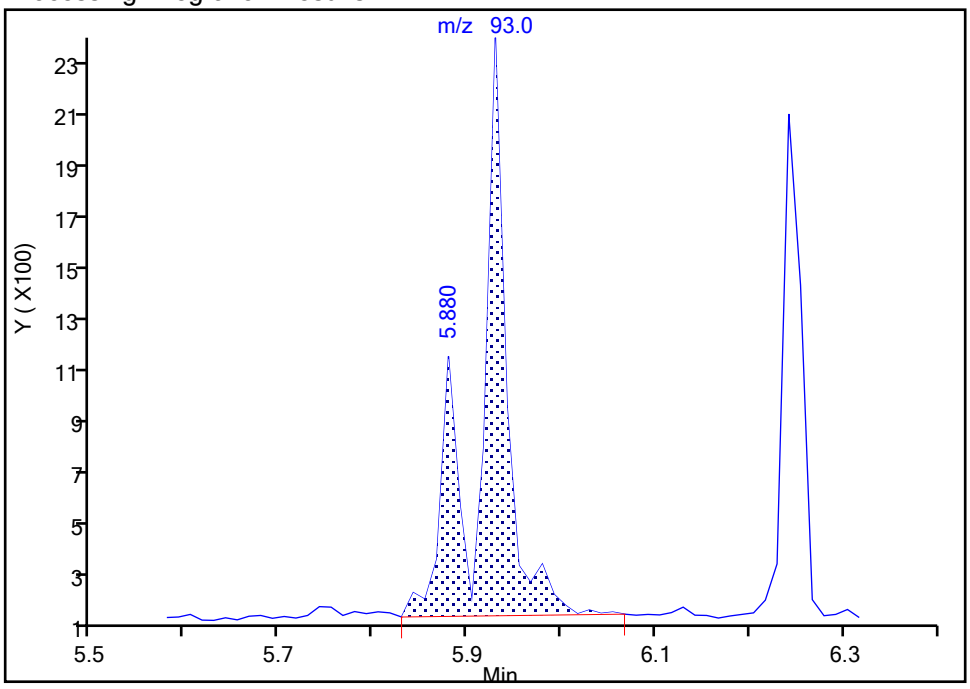
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D				
Injection Date:	08-Oct-2021 06:57:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

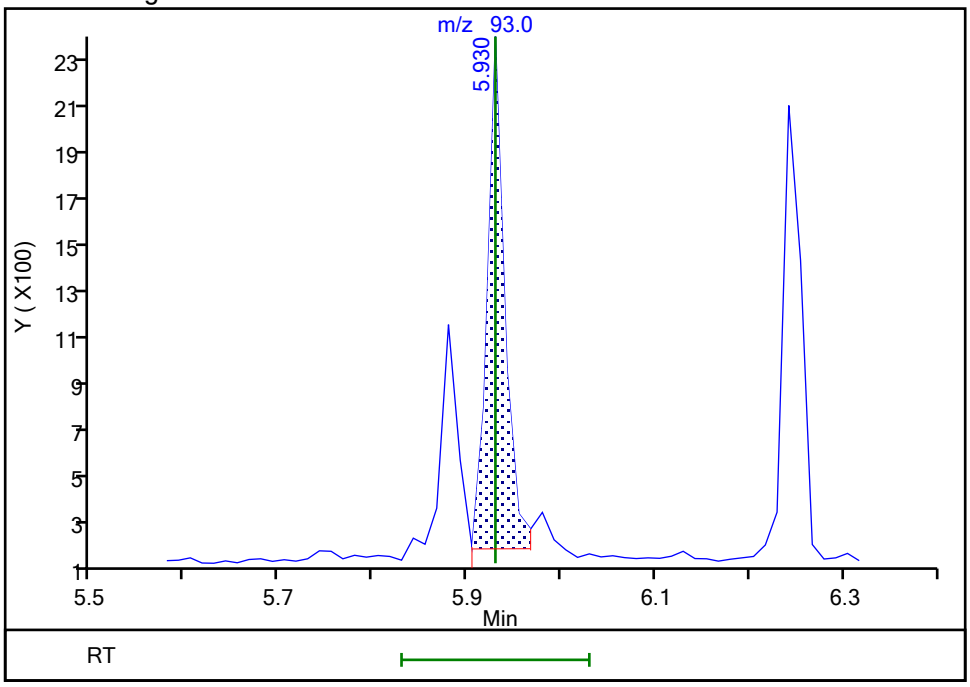
Processing Integration Results

RT: 5.88
Area: 4657
Amount: 0.009205
Amount Units: ug/ml



Manual Integration Results

RT: 5.93
Area: 2811
Amount: 0.008795
Amount Units: ug/ml



Reviewer: saadehw, 08-Oct-2021 13:09:24

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

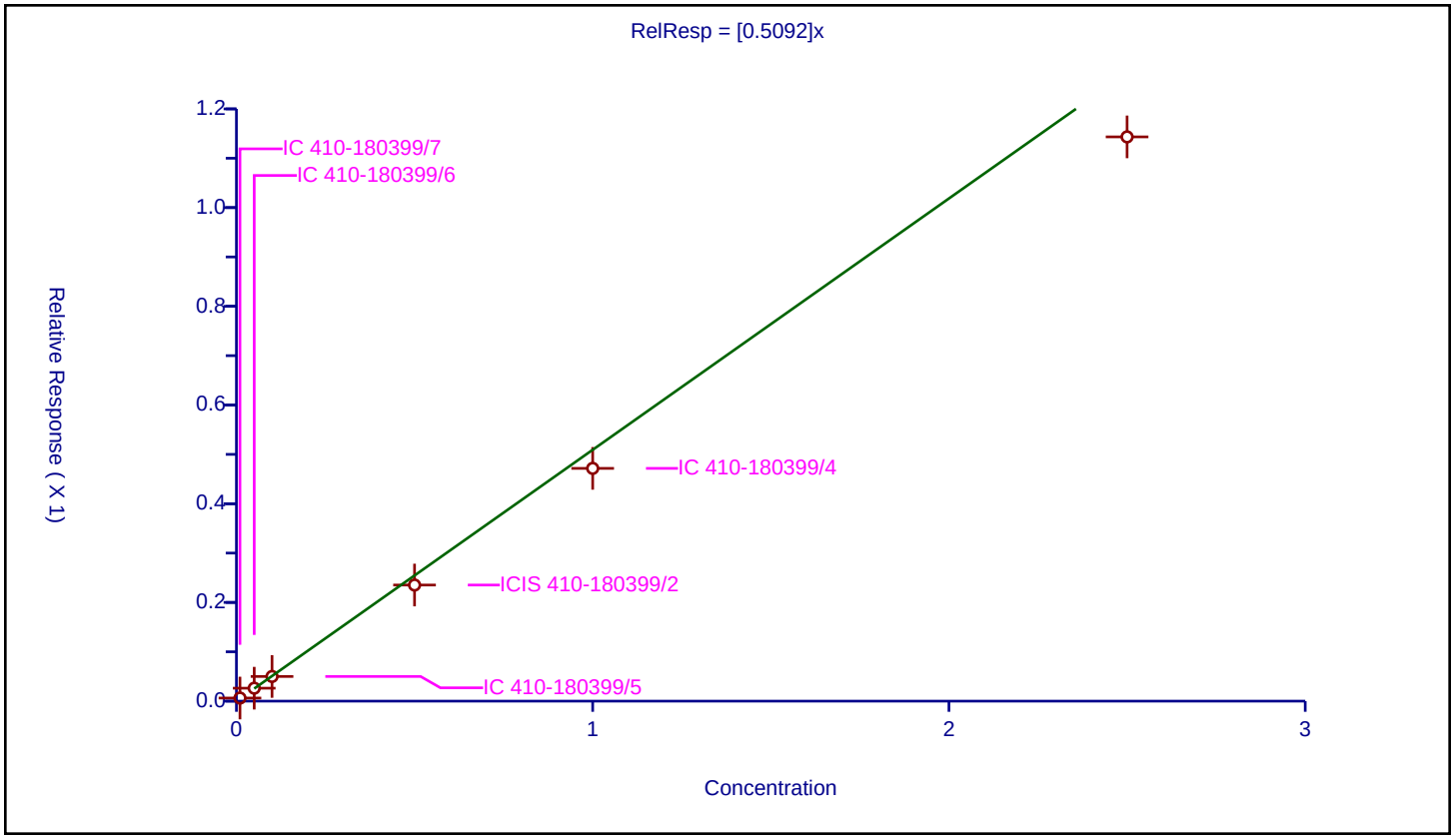
Curve Coefficients

Intercept:	0
Slope:	0.5092

Error Coefficients

Standard Error:	171000
Relative Standard Error:	12.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.006311	0.25	80372.0	0.631128	Y
2	IC 410-180399/6	0.05	0.026245	0.25	74424.0	0.524898	Y
3	IC 410-180399/5	0.1	0.049984	0.25	80811.0	0.499839	Y
4	ICIS 410-180399/2	0.5	0.235254	0.25	71530.0	0.470509	Y
5	IC 410-180399/4	1.0	0.471649	0.25	77590.0	0.471649	Y
6	IC 410-180399/3	2.5	1.143275	0.25	75533.0	0.45731	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

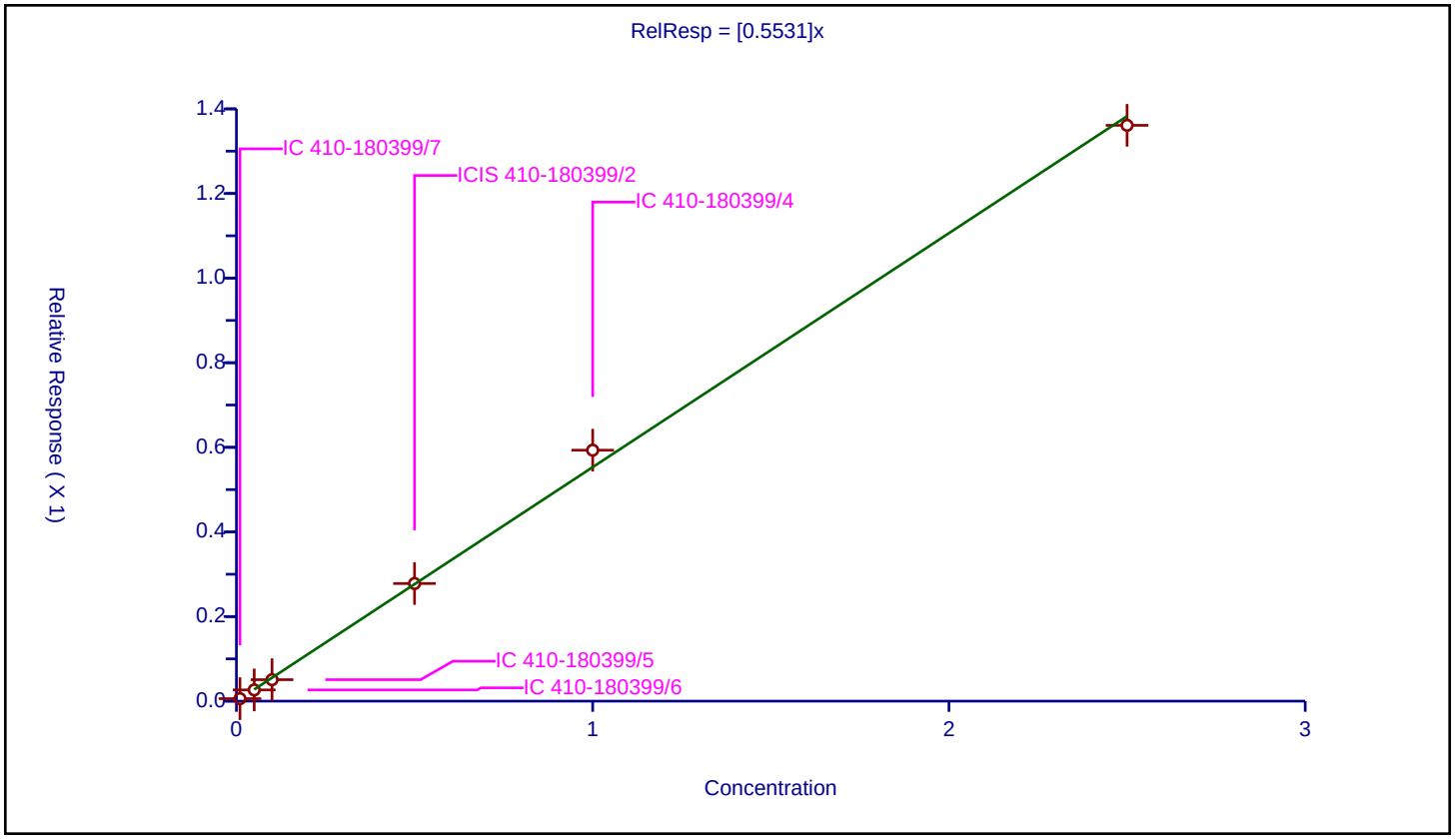
Curve Coefficients

Intercept:	0
Slope:	0.5531

Error Coefficients

Standard Error:	205000
Relative Standard Error:	6.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.005873	0.25	80372.0	0.587269	Y
2	IC 410-180399/6	0.05	0.026514	0.25	74424.0	0.530272	Y
3	IC 410-180399/5	0.1	0.050729	0.25	80811.0	0.507295	Y
4	ICIS 410-180399/2	0.5	0.27803	0.25	71530.0	0.55606	Y
5	IC 410-180399/4	1.0	0.593259	0.25	77590.0	0.593259	Y
6	IC 410-180399/3	2.5	1.361153	0.25	75533.0	0.544461	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

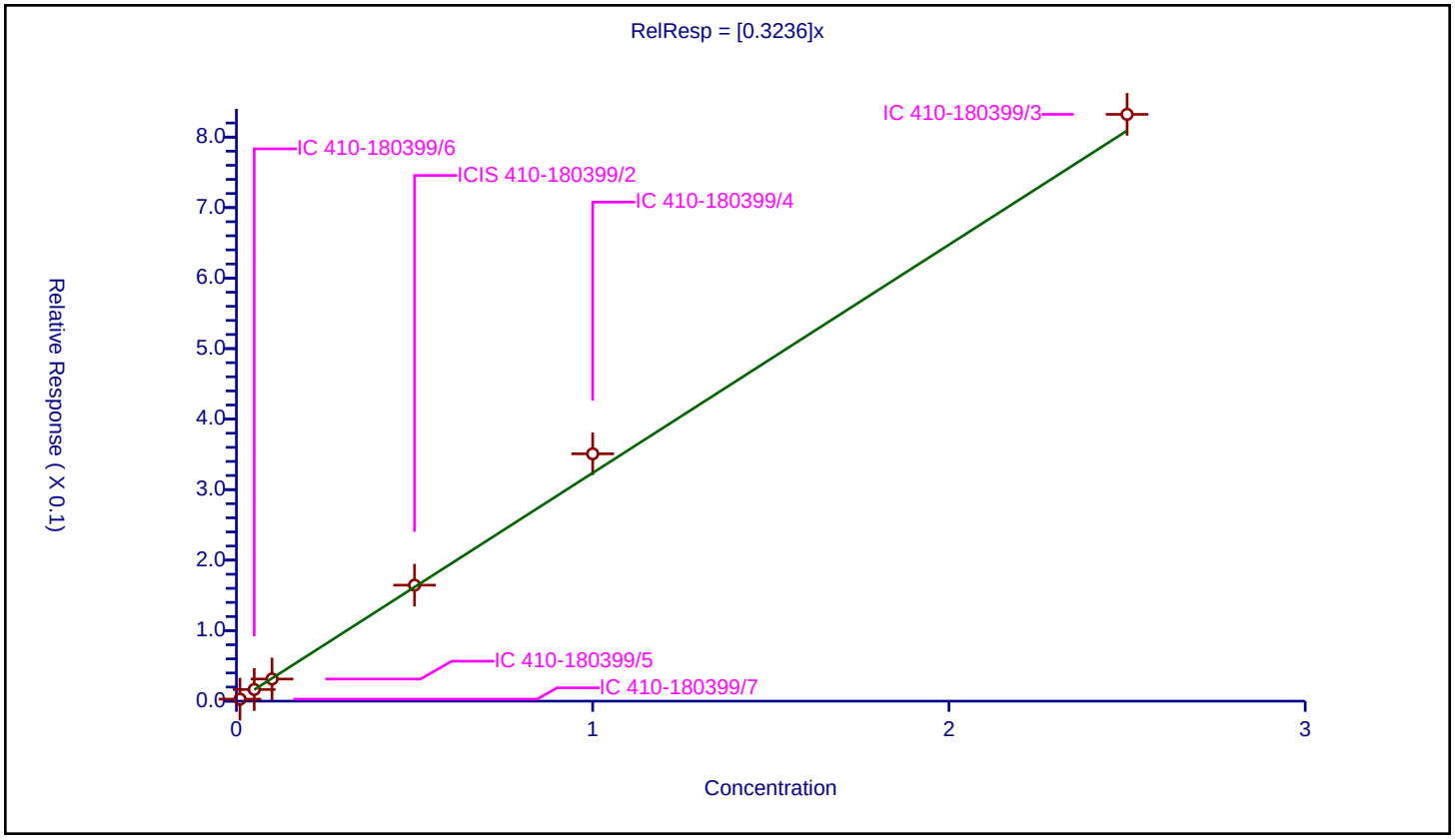
Curve Coefficients

Intercept:	0
Slope:	0.3236

Error Coefficients

Standard Error:	387000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.002846	0.25	246894.0	0.284636	Y
2	IC 410-180399/6	0.05	0.016517	0.25	235239.0	0.330345	Y
3	IC 410-180399/5	0.1	0.031417	0.25	246618.0	0.31417	Y
4	ICIS 410-180399/2	0.5	0.164493	0.25	218637.0	0.328986	Y
5	IC 410-180399/4	1.0	0.350798	0.25	245720.0	0.350798	Y
6	IC 410-180399/3	2.5	0.832247	0.25	234371.0	0.332899	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

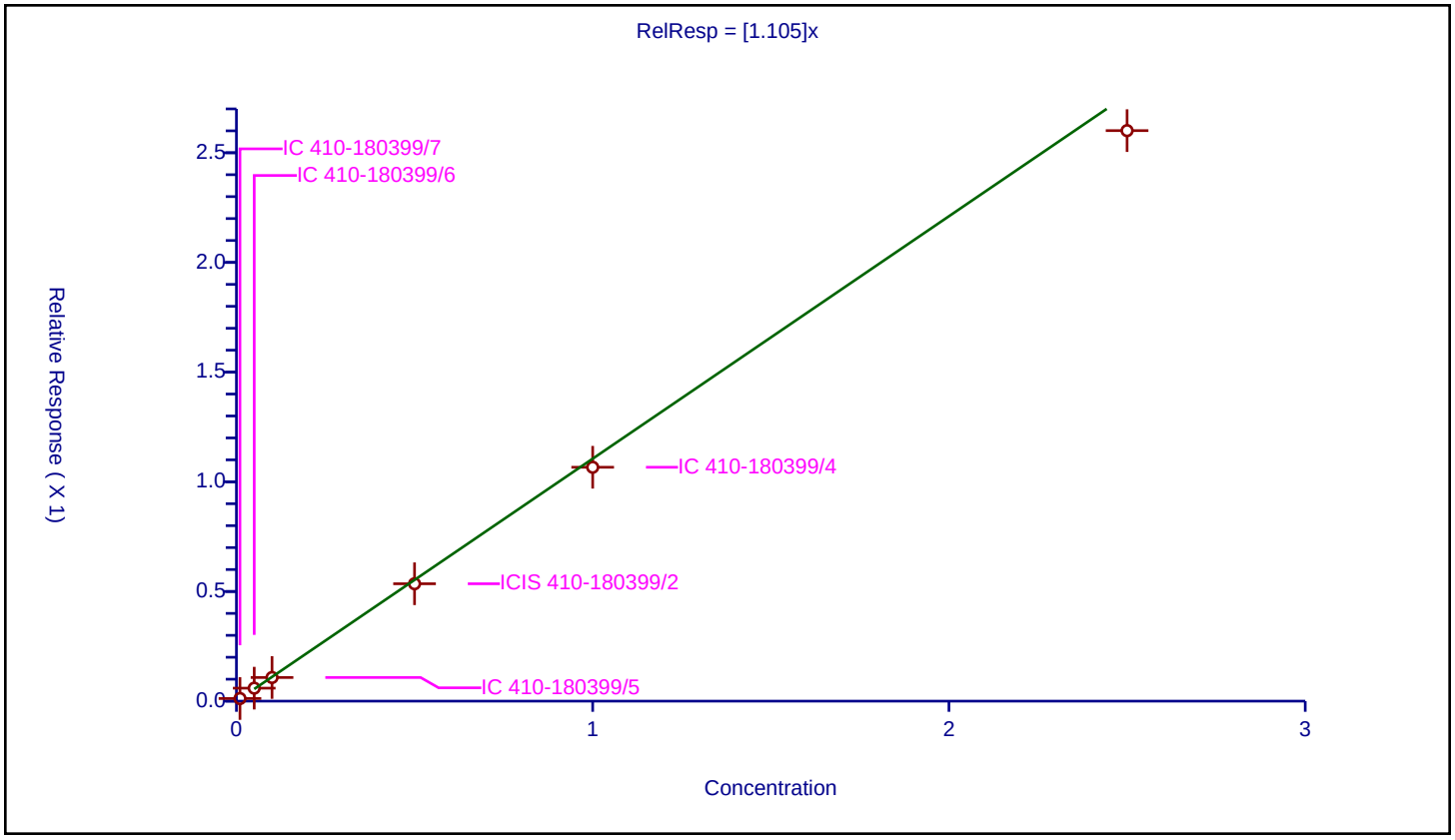
Curve Coefficients

Intercept:	0
Slope:	1.105

Error Coefficients

Standard Error:	1210000
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 410-180399/7	0.01	0.011937	0.25	246894.0	1.193731	Y
2	IC 410-180399/6	0.05	0.059197	0.25	235239.0	1.183945	Y
3	IC 410-180399/5	0.1	0.107713	0.25	246618.0	1.077131	Y
4	ICIS 410-180399/2	0.5	0.535202	0.25	218637.0	1.070404	Y
5	IC 410-180399/4	1.0	1.066236	0.25	245720.0	1.066236	Y
6	IC 410-180399/3	2.5	2.600893	0.25	234371.0	1.040357	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

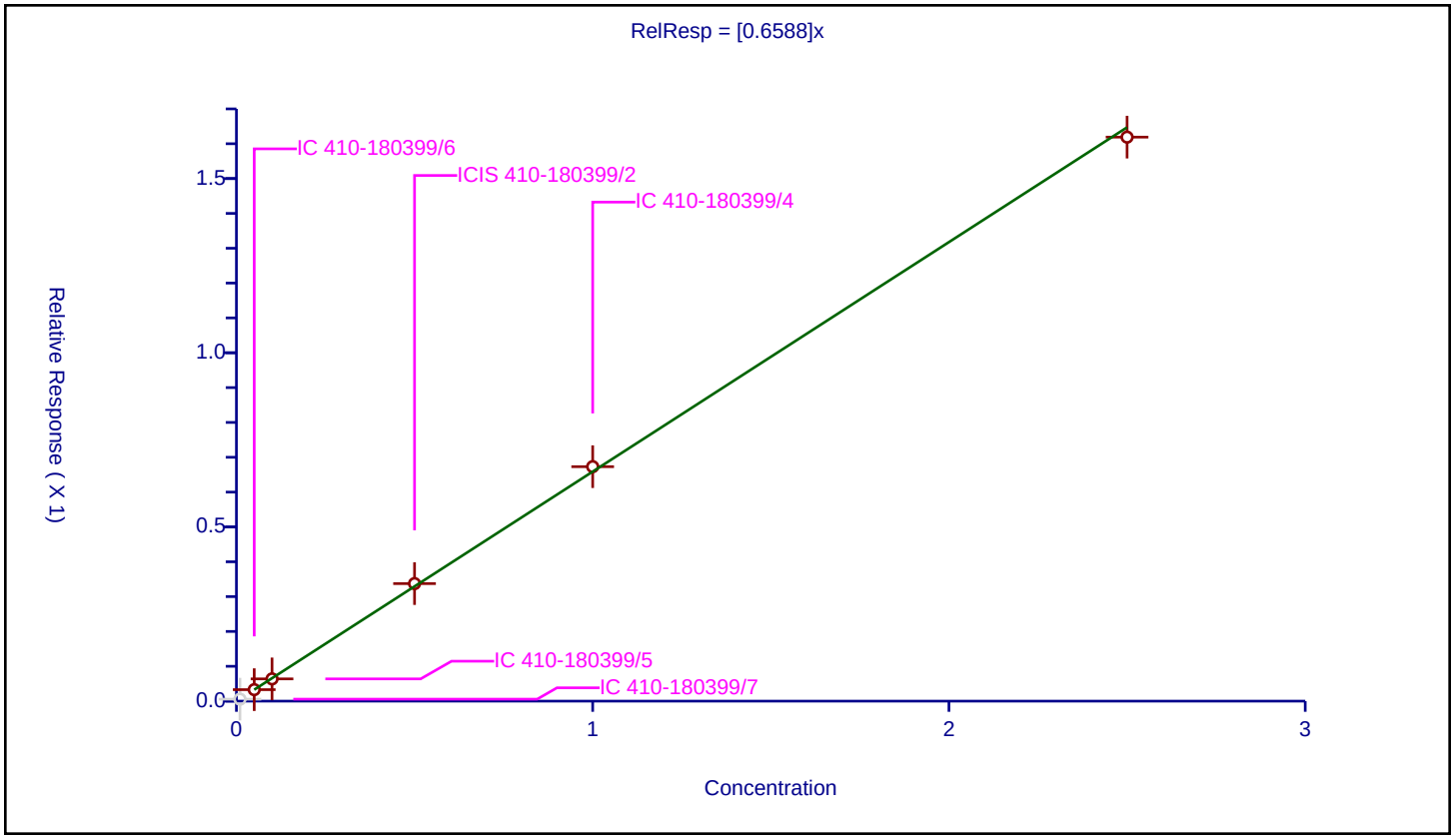
Curve Coefficients

Intercept:	0
Slope:	0.6588

Error Coefficients

Standard Error:	842000
Relative Standard Error:	2.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.0057	0.25	246894.0	0.569981	N
2	IC 410-180399/6	0.05	0.032988	0.25	235239.0	0.659755	Y
3	IC 410-180399/5	0.1	0.063884	0.25	246618.0	0.638842	Y
4	ICIS 410-180399/2	0.5	0.337405	0.25	218637.0	0.67481	Y
5	IC 410-180399/4	1.0	0.673027	0.25	245720.0	0.673027	Y
6	IC 410-180399/3	2.5	1.618955	0.25	234371.0	0.647582	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

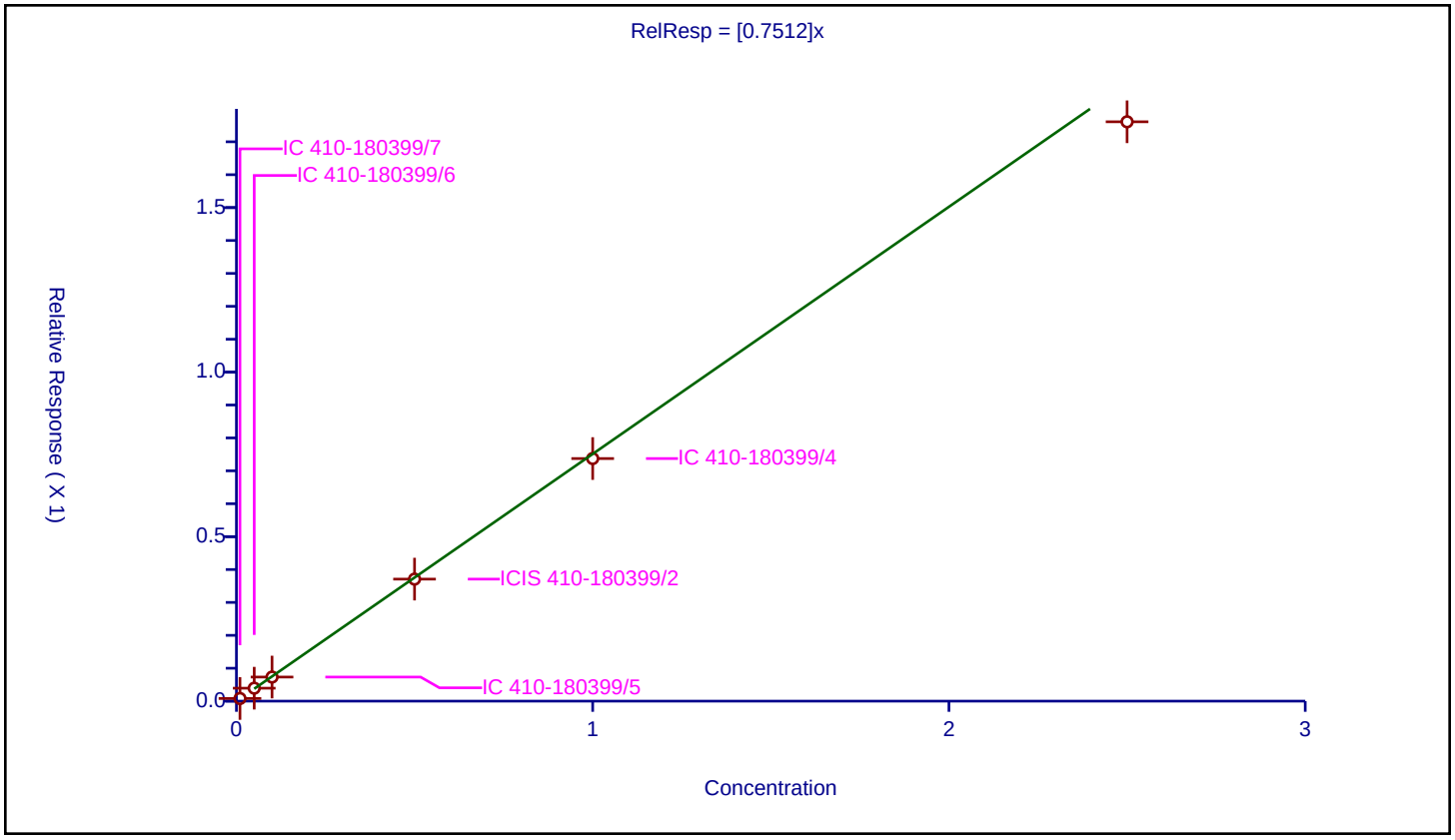
Curve Coefficients

Intercept:	0
Slope:	0.7512

Error Coefficients

Standard Error:	820000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.008036	0.25	246894.0	0.803584	Y
2	IC 410-180399/6	0.05	0.039407	0.25	235239.0	0.788135	Y
3	IC 410-180399/5	0.1	0.073209	0.25	246618.0	0.732094	Y
4	ICIS 410-180399/2	0.5	0.370902	0.25	218637.0	0.741805	Y
5	IC 410-180399/4	1.0	0.737329	0.25	245720.0	0.737329	Y
6	IC 410-180399/3	2.5	1.7608	0.25	234371.0	0.70432	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

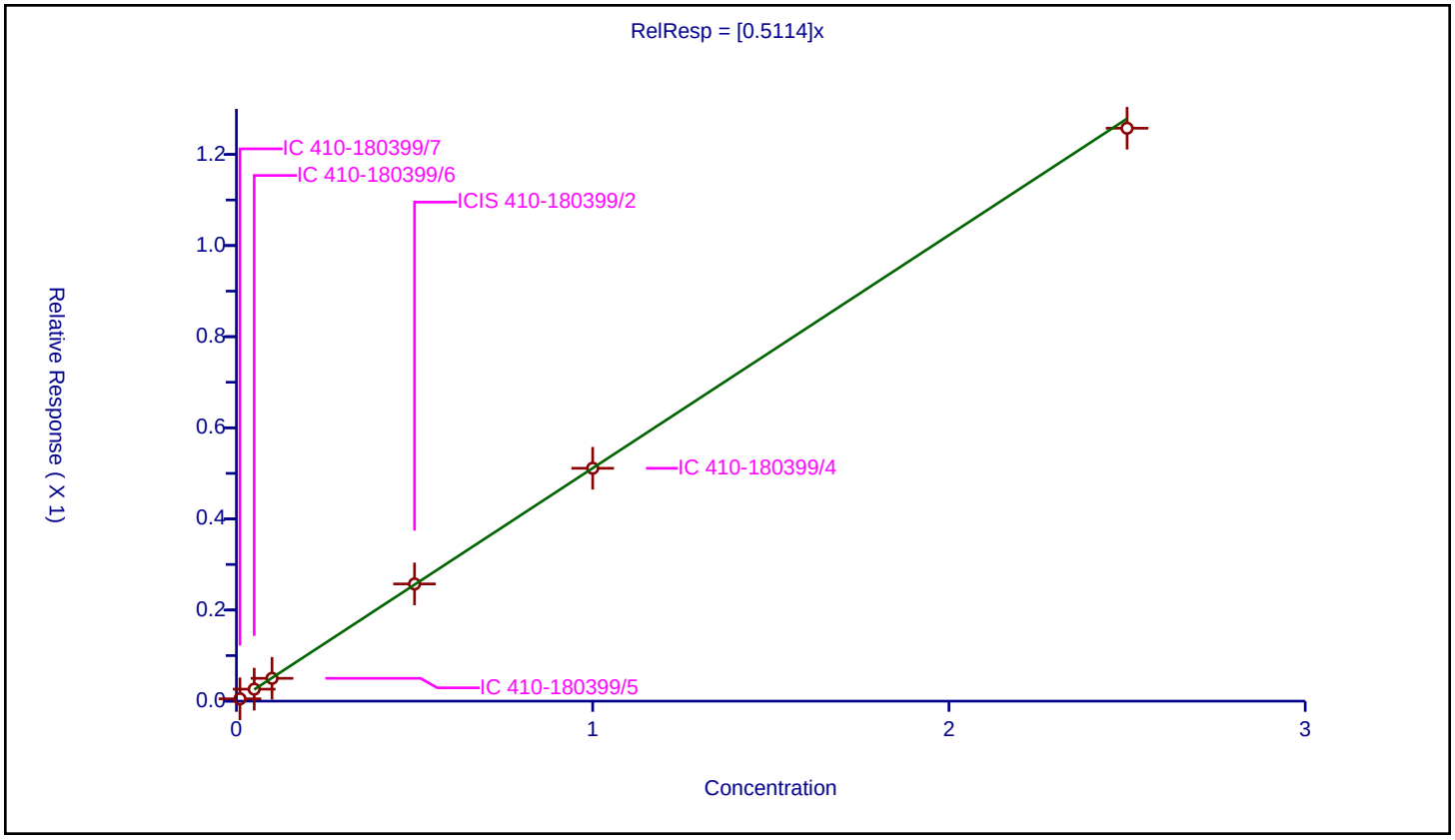
Curve Coefficients

Intercept:	0
Slope:	0.5114

Error Coefficients

Standard Error:	582000
Relative Standard Error:	1.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.005126	0.25	246894.0	0.512568	Y
2	IC 410-180399/6	0.05	0.026327	0.25	235239.0	0.52655	Y
3	IC 410-180399/5	0.1	0.050071	0.25	246618.0	0.500714	Y
4	ICIS 410-180399/2	0.5	0.257255	0.25	218637.0	0.51451	Y
5	IC 410-180399/4	1.0	0.511176	0.25	245720.0	0.511176	Y
6	IC 410-180399/3	2.5	1.257573	0.25	234371.0	0.503029	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

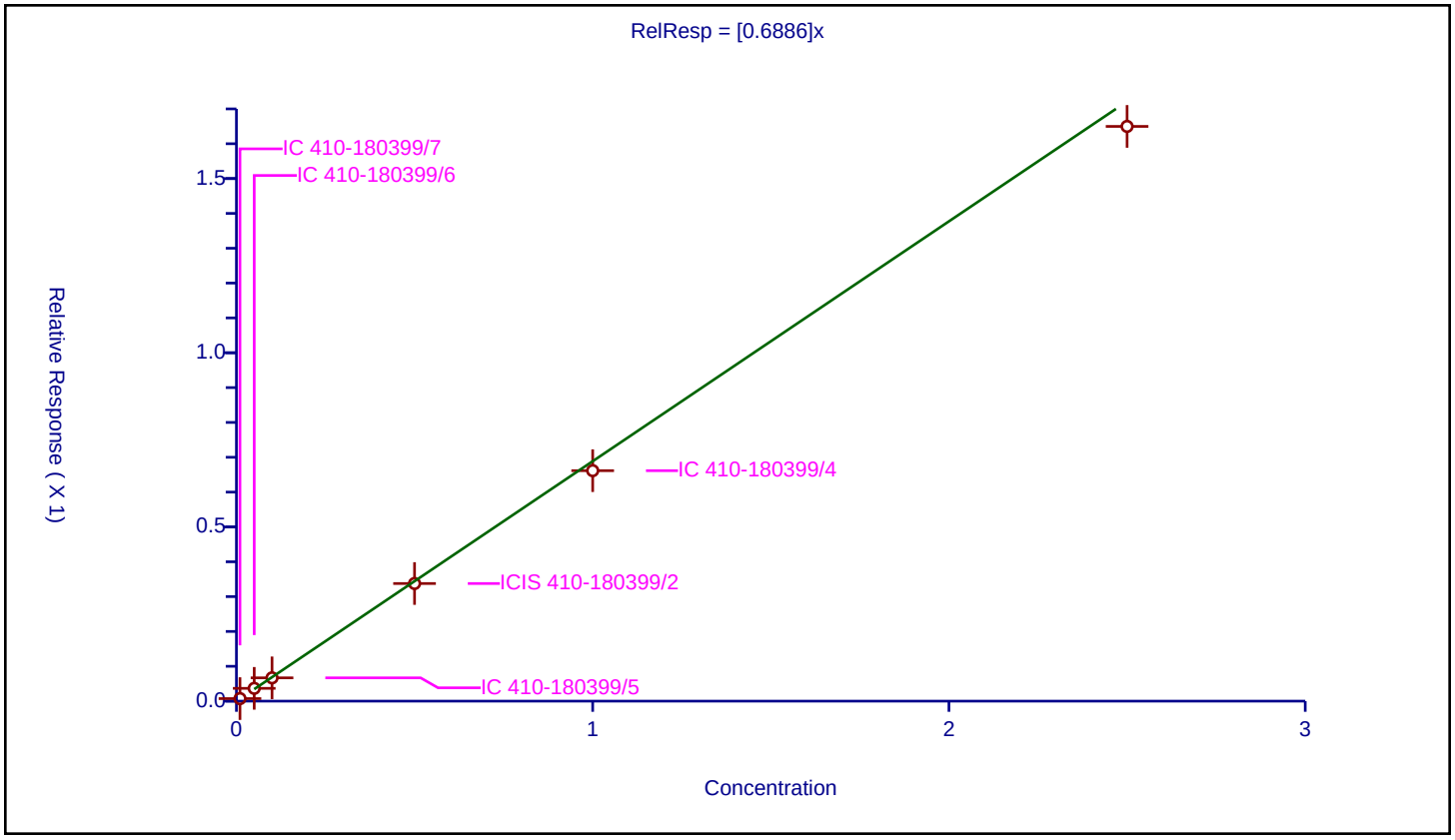
Curve Coefficients

Intercept:	0
Slope:	0.6886

Error Coefficients

Standard Error:	763000
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 410-180399/7	0.01	0.007321	0.25	246894.0	0.732096	Y
2	IC 410-180399/6	0.05	0.036701	0.25	235239.0	0.734019	Y
3	IC 410-180399/5	0.1	0.066869	0.25	246618.0	0.668686	Y
4	ICIS 410-180399/2	0.5	0.337675	0.25	218637.0	0.67535	Y
5	IC 410-180399/4	1.0	0.661584	0.25	245720.0	0.661584	Y
6	IC 410-180399/3	2.5	1.649702	0.25	234371.0	0.659881	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

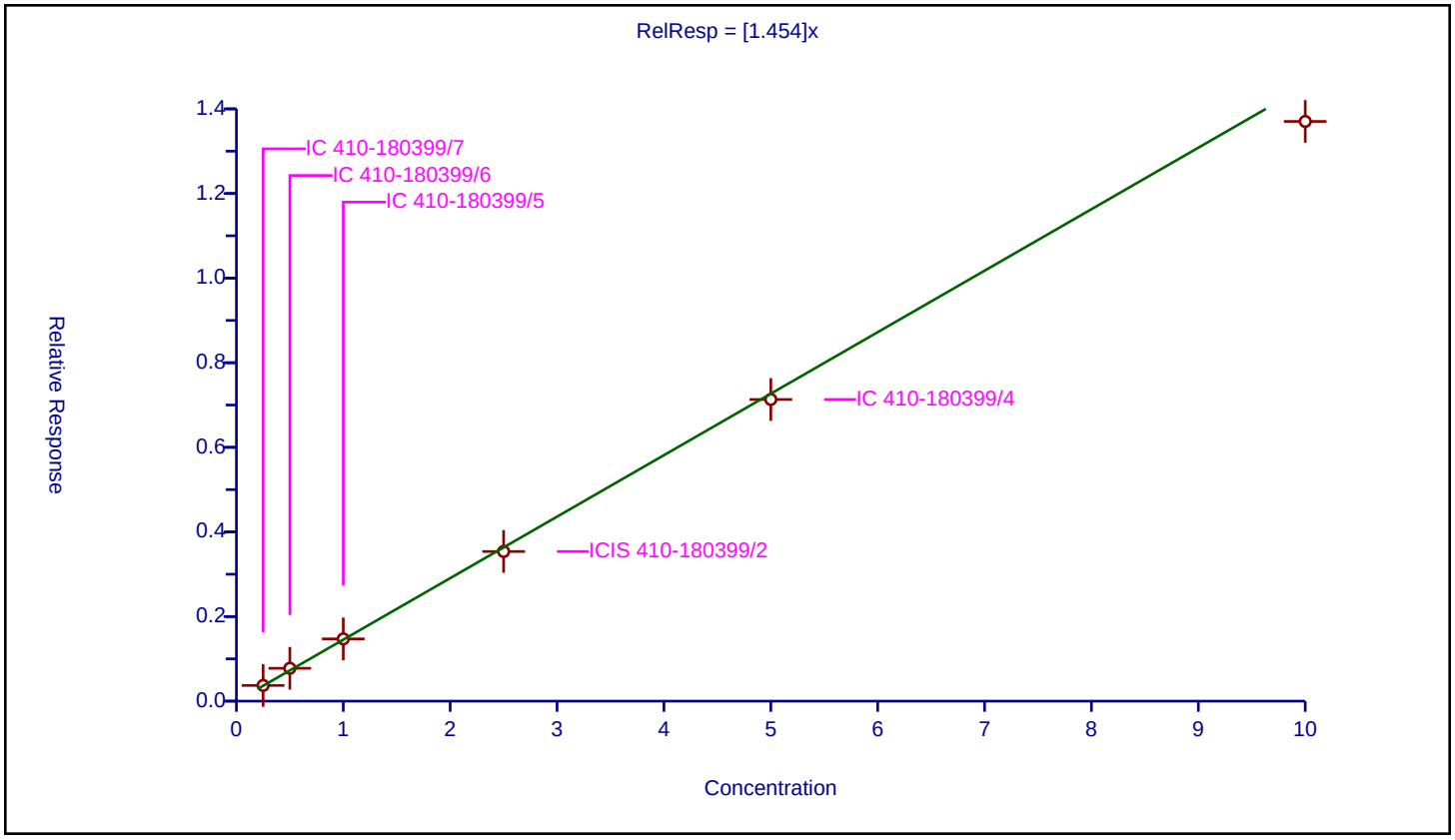
Curve Coefficients

Intercept:	0
Slope:	1.454

Error Coefficients

Standard Error:	3550000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.25	0.371244	0.25	129695.0	1.484976	Y
2	IC 410-180399/6	0.5	0.77685	0.25	122904.0	1.5537	Y
3	IC 410-180399/5	1.0	1.471424	0.25	128195.0	1.471424	Y
4	ICIS 410-180399/2	2.5	3.537091	0.25	114928.0	1.414836	Y
5	IC 410-180399/4	5.0	7.130668	0.25	123902.0	1.426134	Y
6	IC 410-180399/3	10.0	13.703455	0.25	125181.0	1.370346	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

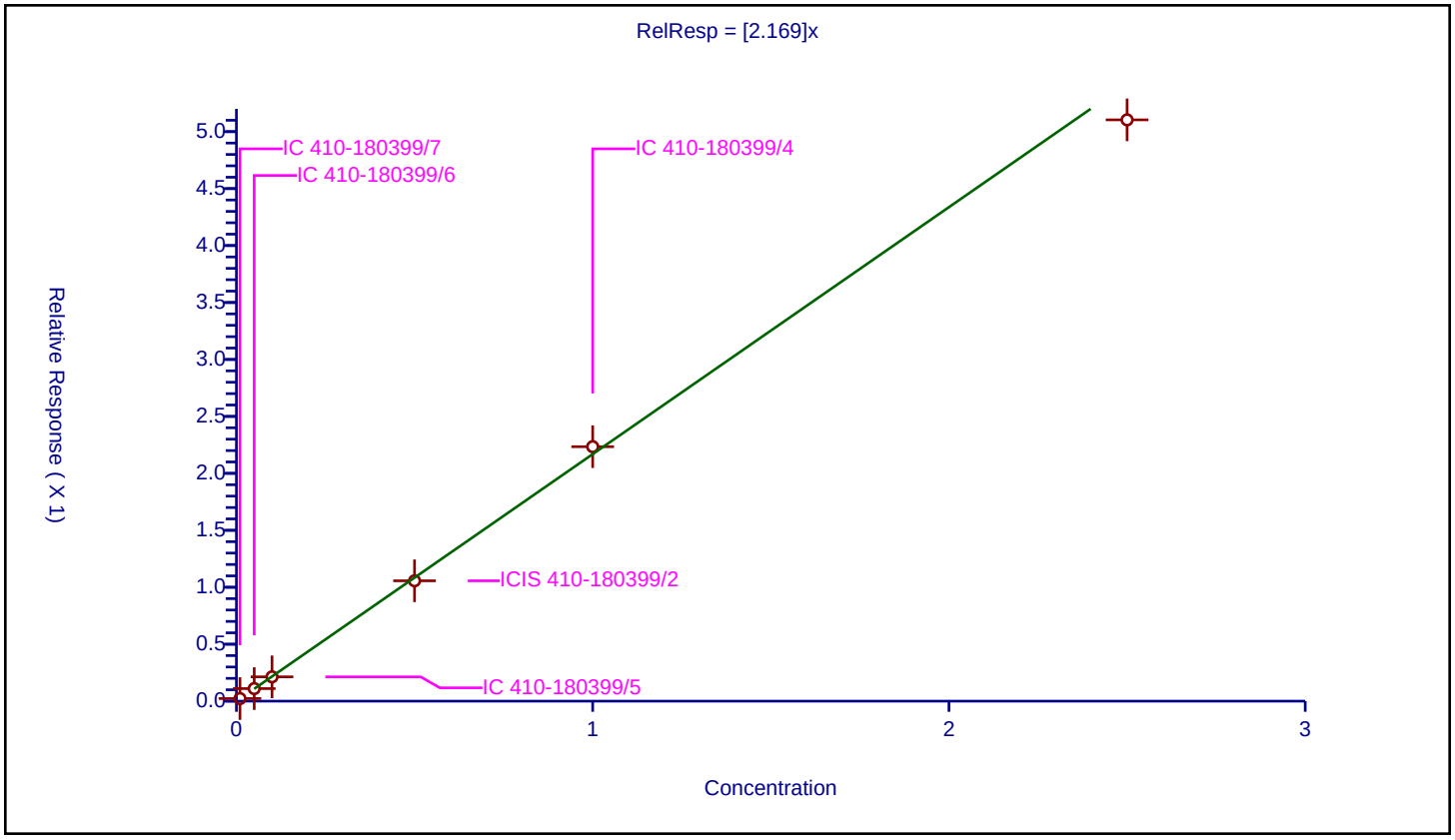
Curve Coefficients

Intercept:	0
Slope:	2.169

Error Coefficients

Standard Error:	1270000
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 410-180399/7	0.01	0.022857	0.25	129695.0	2.285747	Y
2	IC 410-180399/6	0.05	0.110145	0.25	122904.0	2.202898	Y
3	IC 410-180399/5	0.1	0.213419	0.25	128195.0	2.13419	Y
4	ICIS 410-180399/2	0.5	1.056603	0.25	114928.0	2.113206	Y
5	IC 410-180399/4	1.0	2.234056	0.25	123902.0	2.234056	Y
6	IC 410-180399/3	2.5	5.103708	0.25	125181.0	2.041483	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

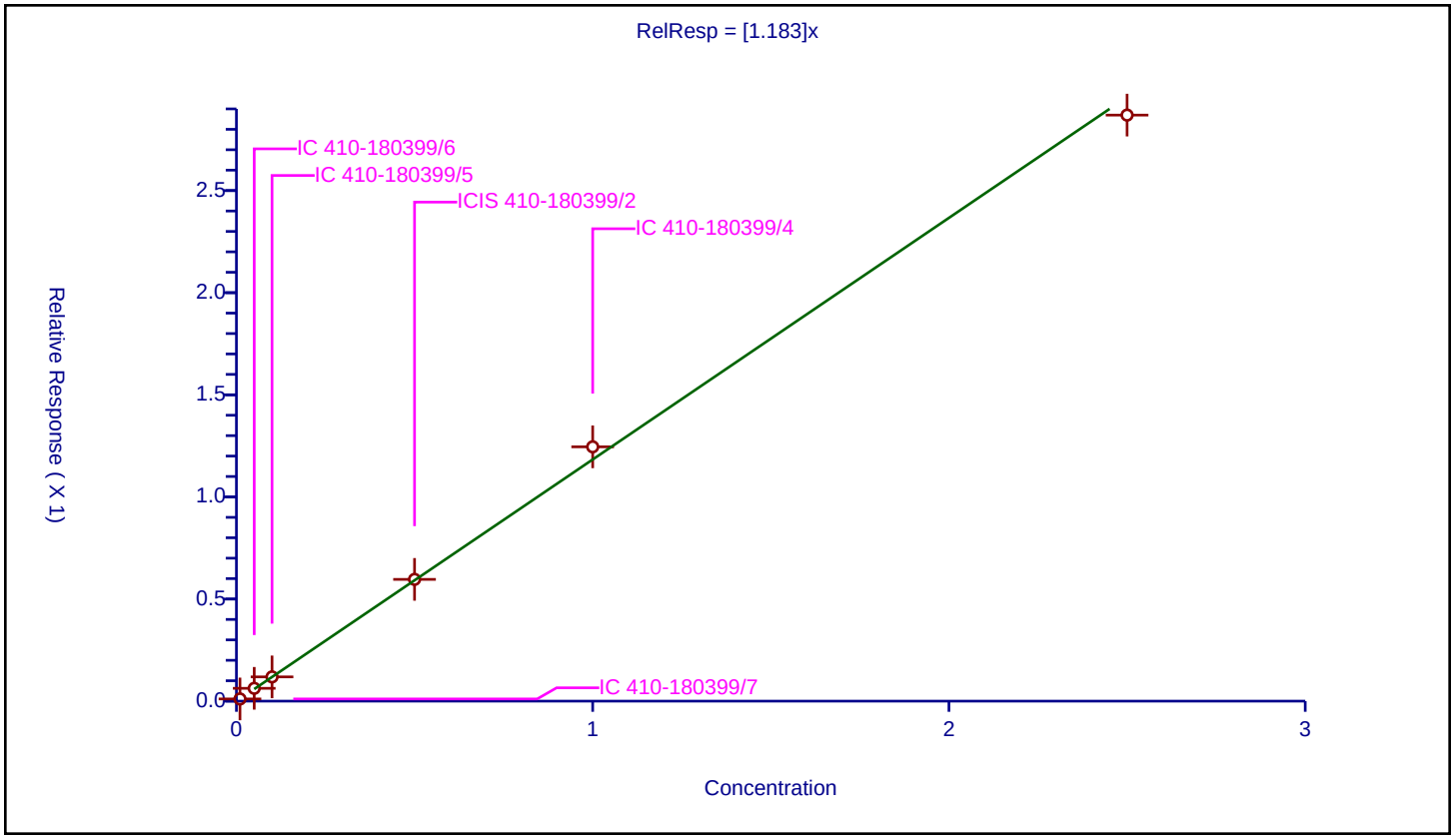
Curve Coefficients

Intercept:	0
Slope:	1.183

Error Coefficients

Standard Error:	711000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.010708	0.25	129695.0	1.070781	Y
2	IC 410-180399/6	0.05	0.062748	0.25	122904.0	1.254963	Y
3	IC 410-180399/5	0.1	0.118788	0.25	128195.0	1.187878	Y
4	ICIS 410-180399/2	0.5	0.596212	0.25	114928.0	1.192425	Y
5	IC 410-180399/4	1.0	1.245236	0.25	123902.0	1.245236	Y
6	IC 410-180399/3	2.5	2.869637	0.25	125181.0	1.147855	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

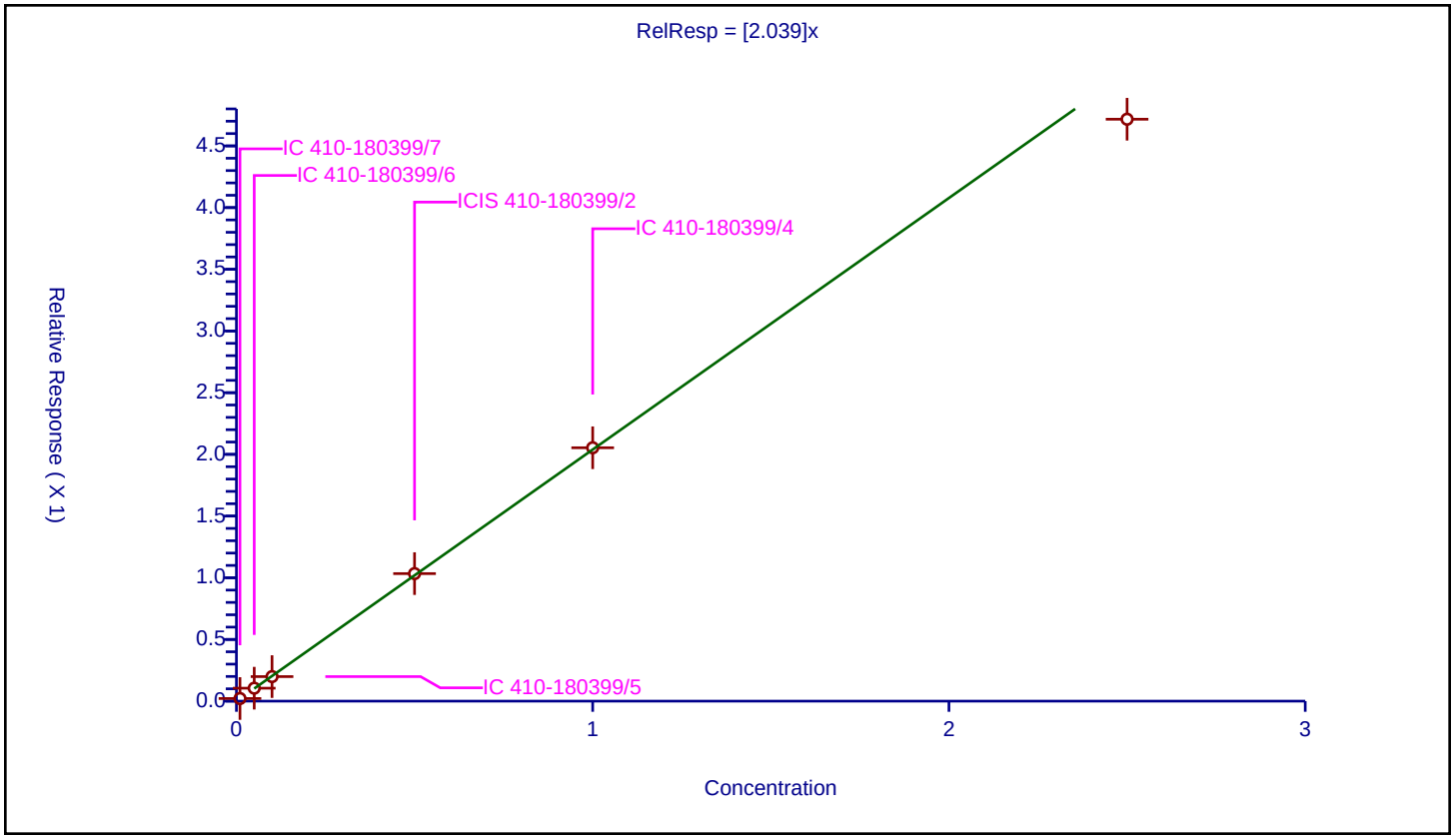
Curve Coefficients

Intercept:	0
Slope:	2.039

Error Coefficients

Standard Error:	1170000
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 410-180399/7	0.01	0.021344	0.25	129695.0	2.134431	Y
2	IC 410-180399/6	0.05	0.105078	0.25	122904.0	2.101559	Y
3	IC 410-180399/5	0.1	0.198951	0.25	128195.0	1.989508	Y
4	ICIS 410-180399/2	0.5	1.033643	0.25	114928.0	2.067286	Y
5	IC 410-180399/4	1.0	2.053565	0.25	123902.0	2.053565	Y
6	IC 410-180399/3	2.5	4.716287	0.25	125181.0	1.886515	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

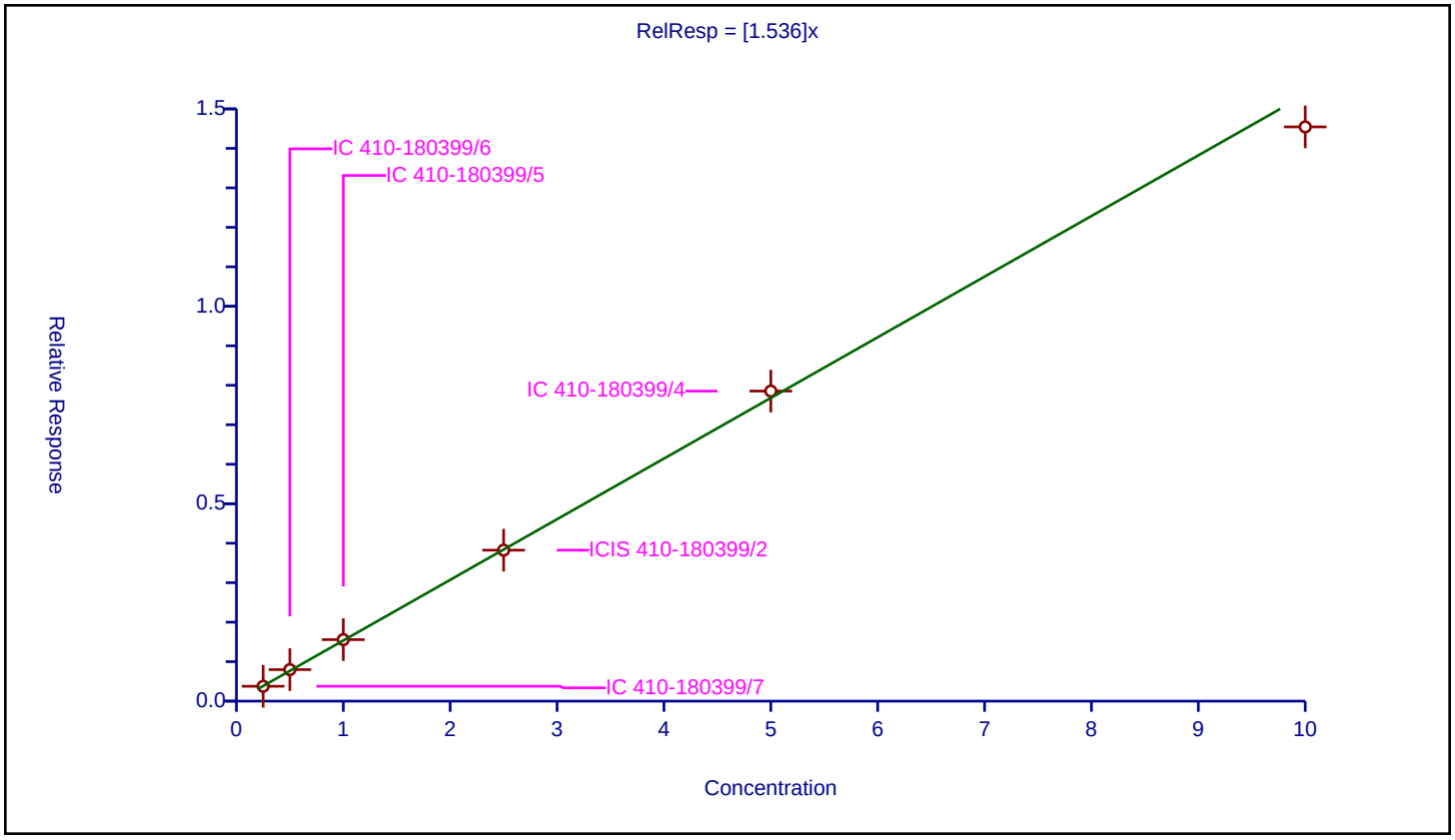
Curve Coefficients

Intercept:	0
Slope:	1.536

Error Coefficients

Standard Error:	3800000
Relative Standard Error:	3.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.25	0.37662	0.25	129695.0	1.506481	Y
2	IC 410-180399/6	0.5	0.798255	0.25	122904.0	1.59651	Y
3	IC 410-180399/5	1.0	1.557875	0.25	128195.0	1.557875	Y
4	ICIS 410-180399/2	2.5	3.824007	0.25	114928.0	1.529603	Y
5	IC 410-180399/4	5.0	7.852712	0.25	123902.0	1.570542	Y
6	IC 410-180399/3	10.0	14.543673	0.25	125181.0	1.454367	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

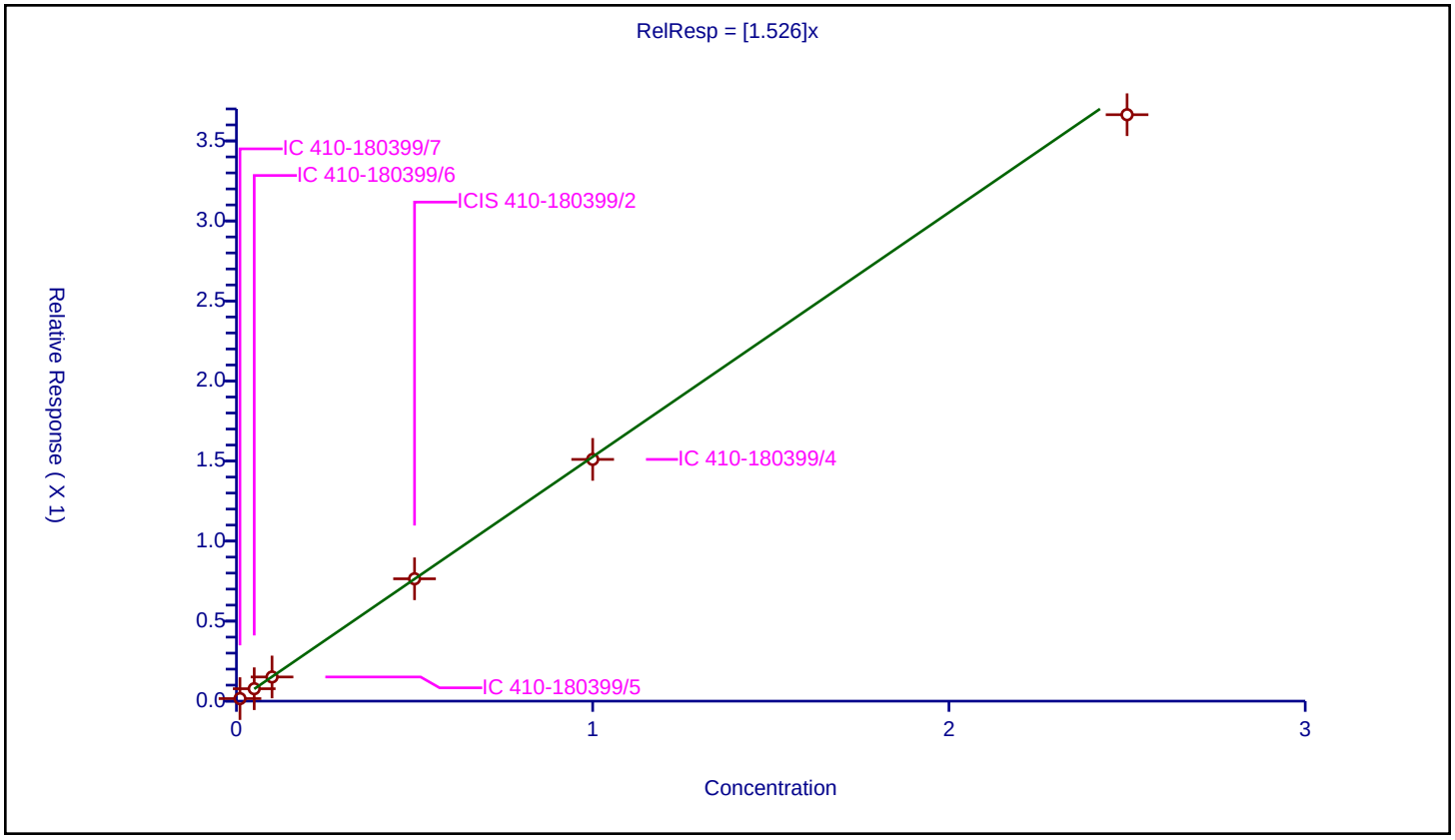
Curve Coefficients

Intercept:	0
Slope:	1.526

Error Coefficients

Standard Error:	901000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.01591	0.25	129695.0	1.591041	Y
2	IC 410-180399/6	0.05	0.077668	0.25	122904.0	1.553367	Y
3	IC 410-180399/5	0.1	0.150922	0.25	128195.0	1.509224	Y
4	ICIS 410-180399/2	0.5	0.76437	0.25	114928.0	1.52874	Y
5	IC 410-180399/4	1.0	1.5103	0.25	123902.0	1.5103	Y
6	IC 410-180399/3	2.5	3.663689	0.25	125181.0	1.465476	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

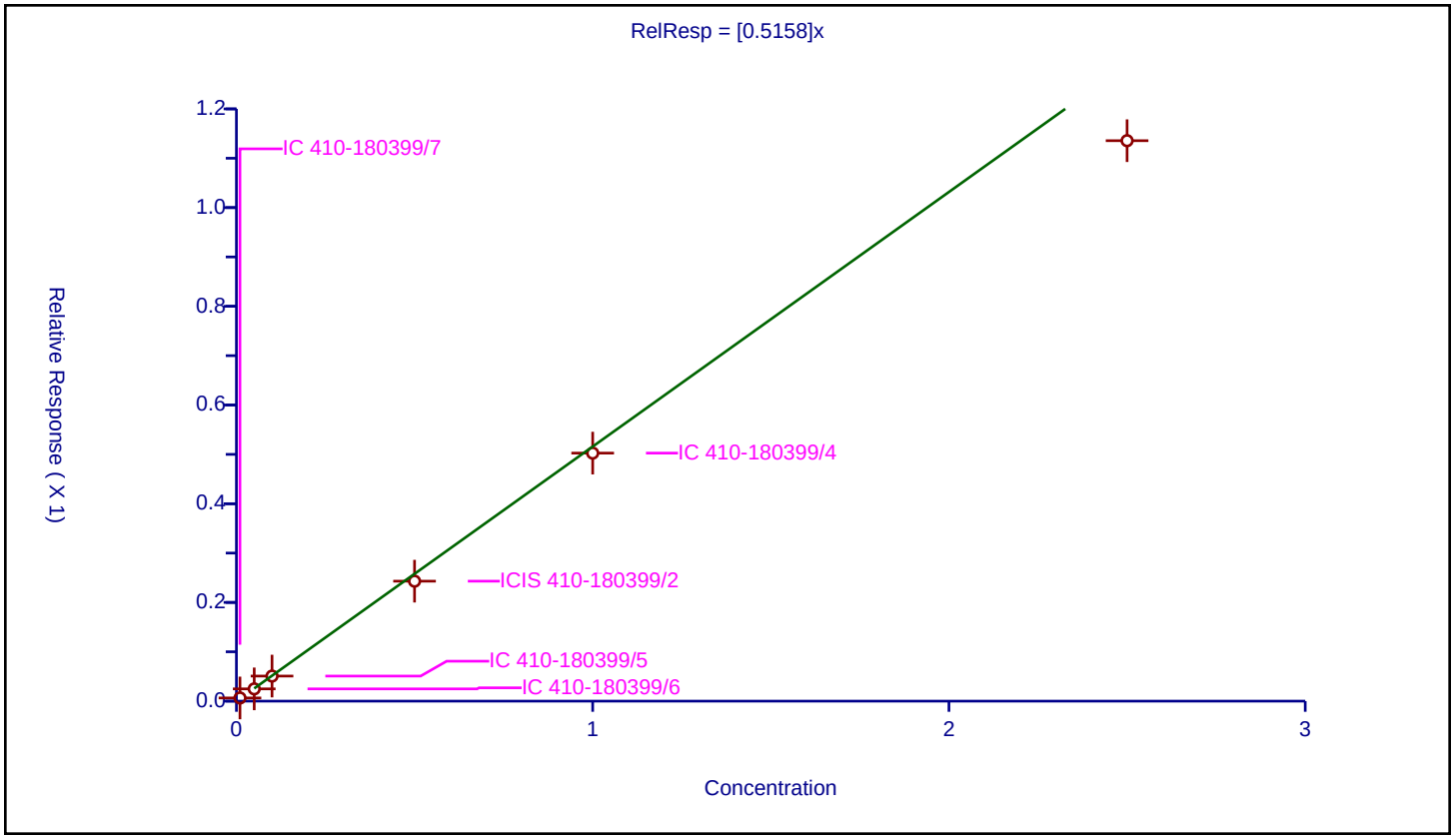
Curve Coefficients

Intercept:	0
Slope:	0.5158

Error Coefficients

Standard Error:	495000
Relative Standard Error:	13.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.006474	0.25	240218.0	0.647433	Y
2	IC 410-180399/6	0.05	0.024829	0.25	232416.0	0.496588	Y
3	IC 410-180399/5	0.1	0.050788	0.25	238990.0	0.507877	Y
4	ICIS 410-180399/2	0.5	0.243065	0.25	218624.0	0.486129	Y
5	IC 410-180399/4	1.0	0.502576	0.25	225972.0	0.502576	Y
6	IC 410-180399/3	2.5	1.13559	0.25	216977.0	0.454236	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

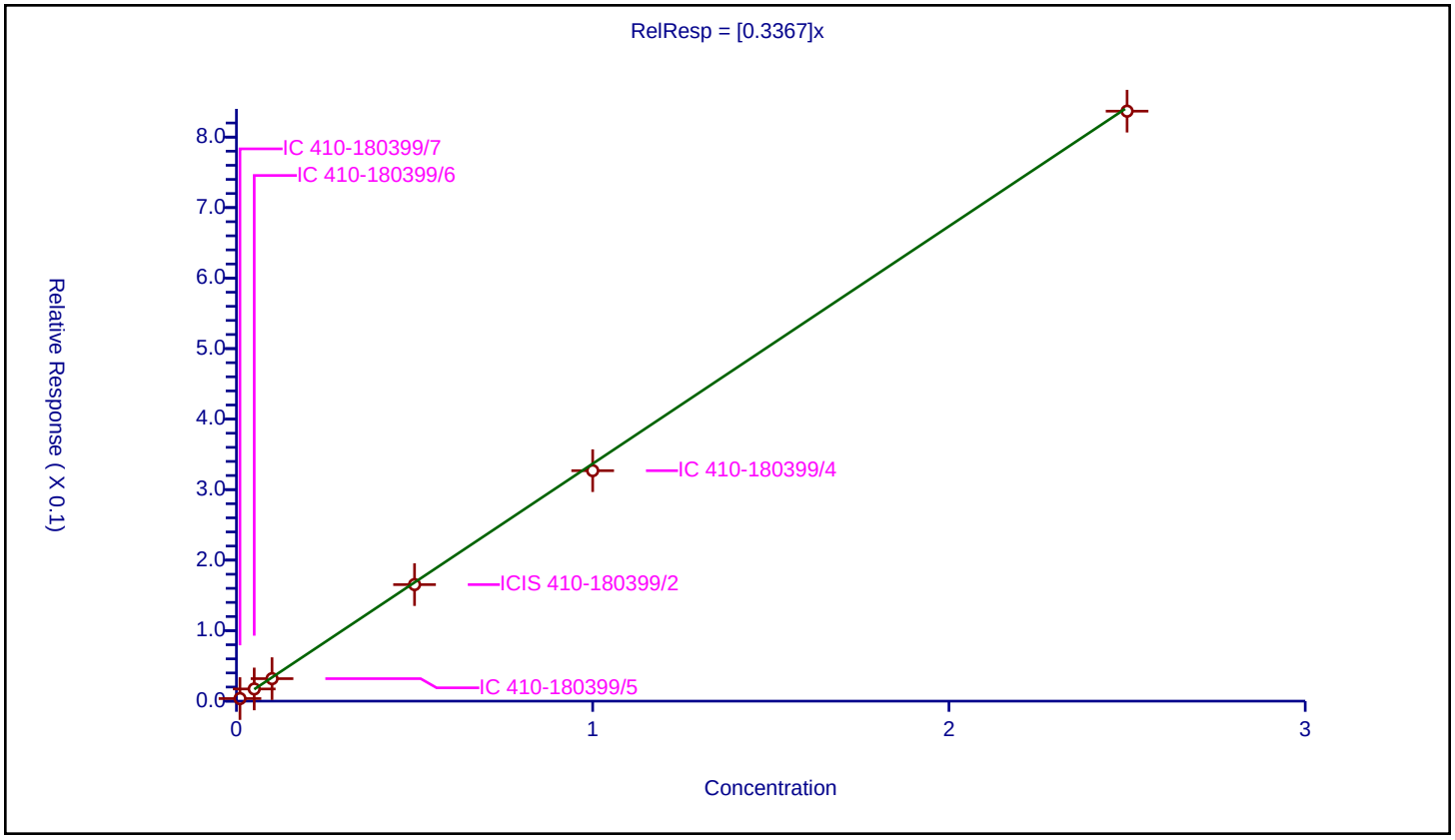
Curve Coefficients

Intercept:	0
Slope:	0.3367

Error Coefficients

Standard Error:	357000
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 410-180399/7	0.01	0.003634	0.25	240218.0	0.36342	Y
2	IC 410-180399/6	0.05	0.017295	0.25	232416.0	0.34591	Y
3	IC 410-180399/5	0.1	0.031888	0.25	238990.0	0.318884	Y
4	ICIS 410-180399/2	0.5	0.1653	0.25	218624.0	0.3306	Y
5	IC 410-180399/4	1.0	0.326893	0.25	225972.0	0.326893	Y
6	IC 410-180399/3	2.5	0.836803	0.25	216977.0	0.334721	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

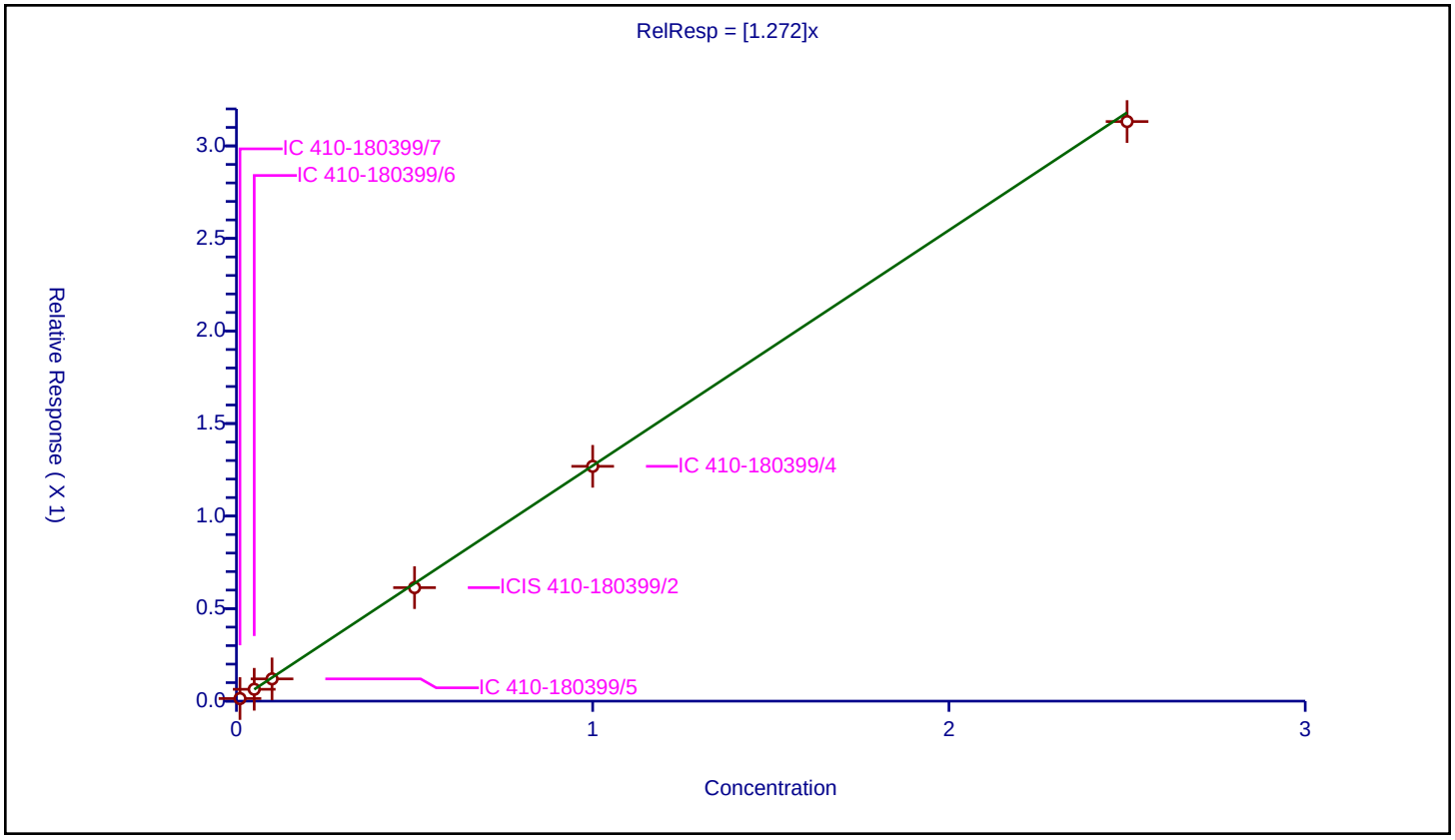
Curve Coefficients

Intercept:	0
Slope:	1.272

Error Coefficients

Standard Error:	1340000
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 410-180399/7	0.01	0.014007	0.25	240218.0	1.400707	Y
2	IC 410-180399/6	0.05	0.064079	0.25	232416.0	1.281581	Y
3	IC 410-180399/5	0.1	0.120272	0.25	238990.0	1.202718	Y
4	ICIS 410-180399/2	0.5	0.613245	0.25	218624.0	1.226489	Y
5	IC 410-180399/4	1.0	1.268757	0.25	225972.0	1.268757	Y
6	IC 410-180399/3	2.5	3.131628	0.25	216977.0	1.252651	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

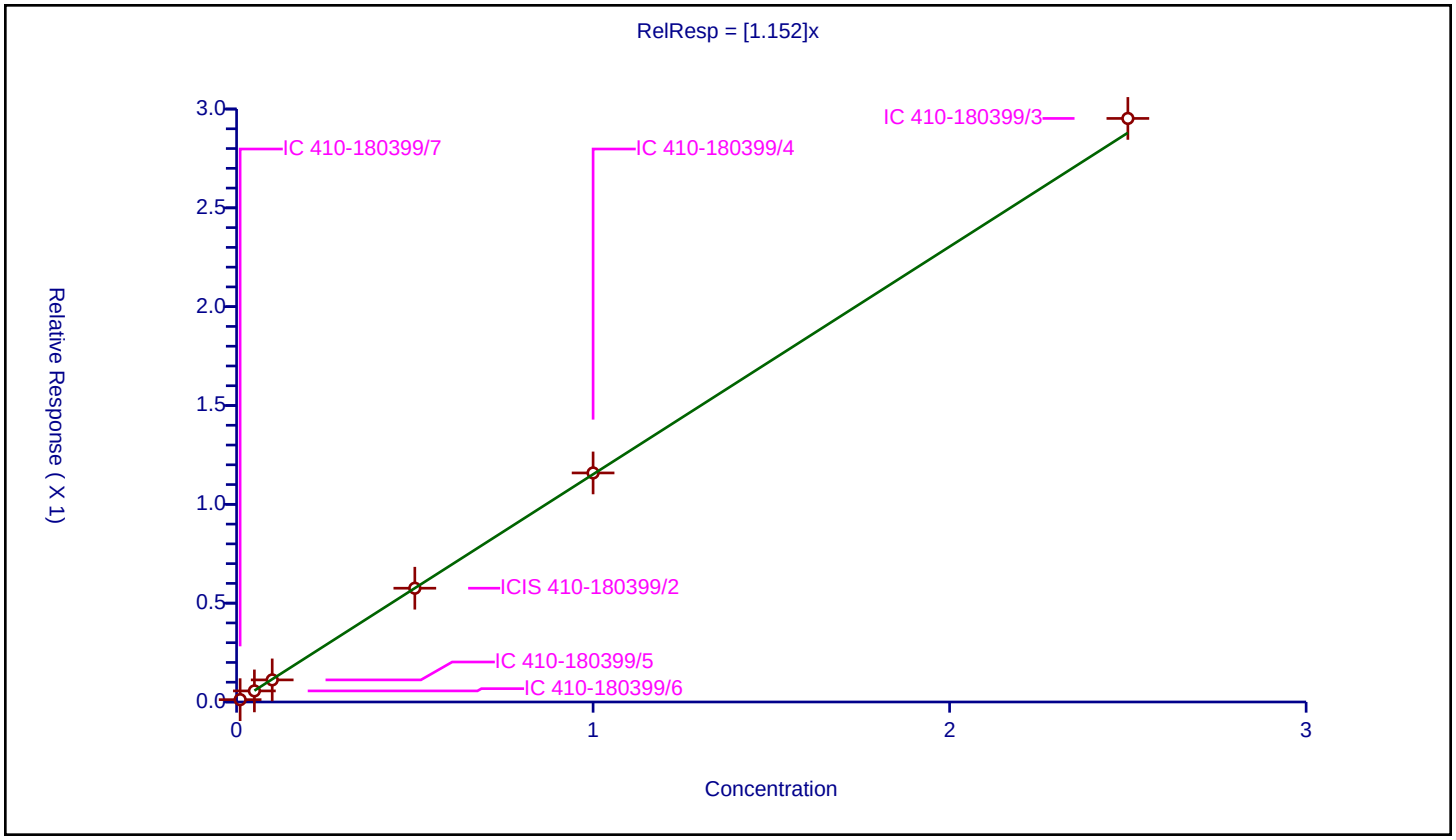
Curve Coefficients

Intercept:	0
Slope:	1.152

Error Coefficients

Standard Error:	1260000
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 410-180399/7	0.01	0.011832	0.25	240218.0	1.183196	Y
2	IC 410-180399/6	0.05	0.056001	0.25	232416.0	1.120018	Y
3	IC 410-180399/5	0.1	0.111709	0.25	238990.0	1.117086	Y
4	ICIS 410-180399/2	0.5	0.575608	0.25	218624.0	1.151216	Y
5	IC 410-180399/4	1.0	1.158865	0.25	225972.0	1.158865	Y
6	IC 410-180399/3	2.5	2.952422	0.25	216977.0	1.180969	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

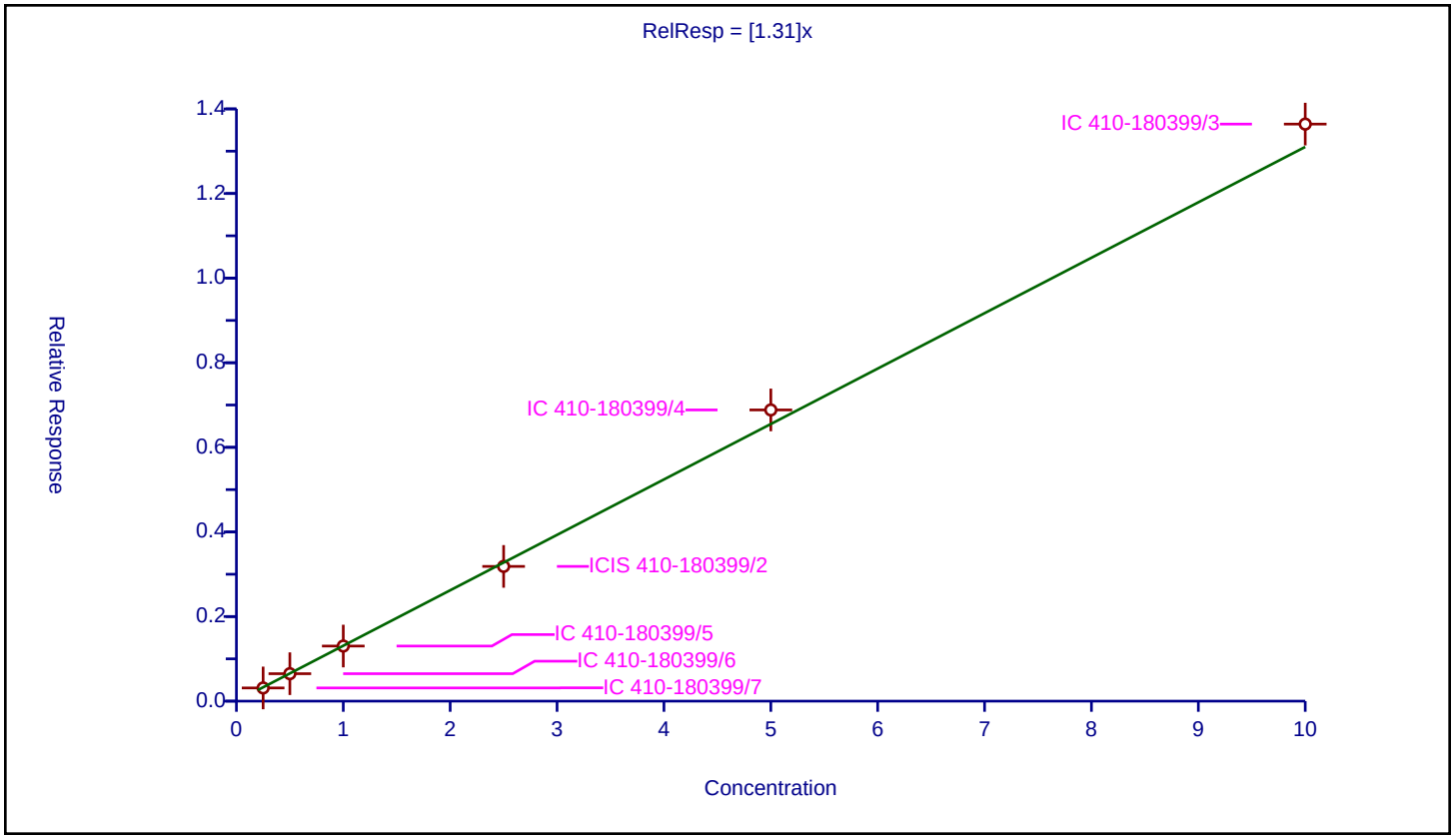
Curve Coefficients

Intercept:	0
Slope:	1.31

Error Coefficients

Standard Error:	6140000
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 410-180399/7	0.25	0.311658	0.25	240218.0	1.24663	Y
2	IC 410-180399/6	0.5	0.648538	0.25	232416.0	1.297075	Y
3	IC 410-180399/5	1.0	1.302251	0.25	238990.0	1.302251	Y
4	ICIS 410-180399/2	2.5	3.185025	0.25	218624.0	1.27401	Y
5	IC 410-180399/4	5.0	6.88351	0.25	225972.0	1.376702	Y
6	IC 410-180399/3	10.0	13.640721	0.25	216977.0	1.364072	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

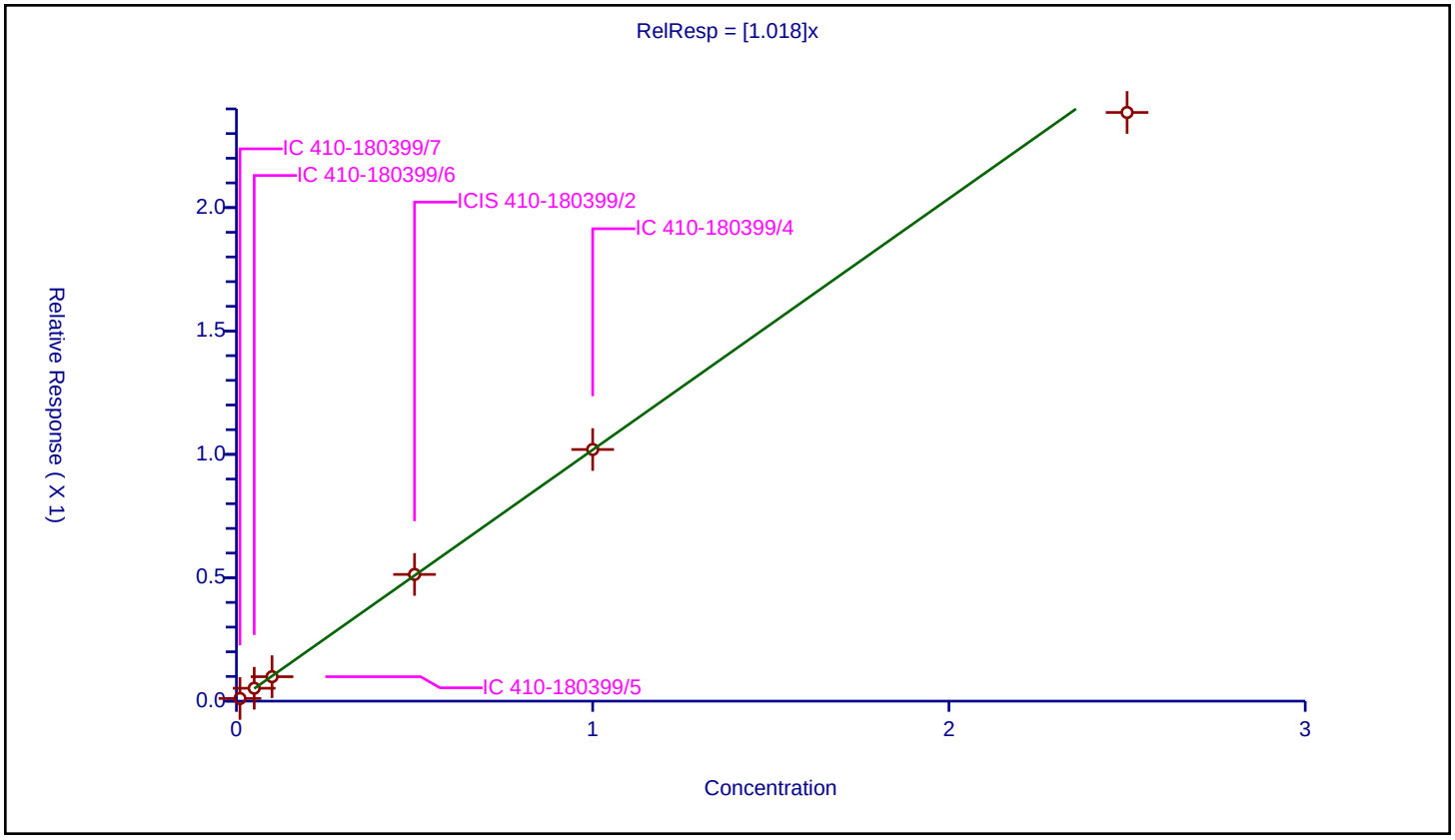
Curve Coefficients

Intercept:	0
Slope:	1.018

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	4.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.010741	0.25	240218.0	1.074128	Y
2	IC 410-180399/6	0.05	0.05227	0.25	232416.0	1.04541	Y
3	IC 410-180399/5	0.1	0.098977	0.25	238990.0	0.989769	Y
4	ICIS 410-180399/2	0.5	0.513443	0.25	218624.0	1.026886	Y
5	IC 410-180399/4	1.0	1.019738	0.25	225972.0	1.019738	Y
6	IC 410-180399/3	2.5	2.385532	0.25	216977.0	0.954213	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

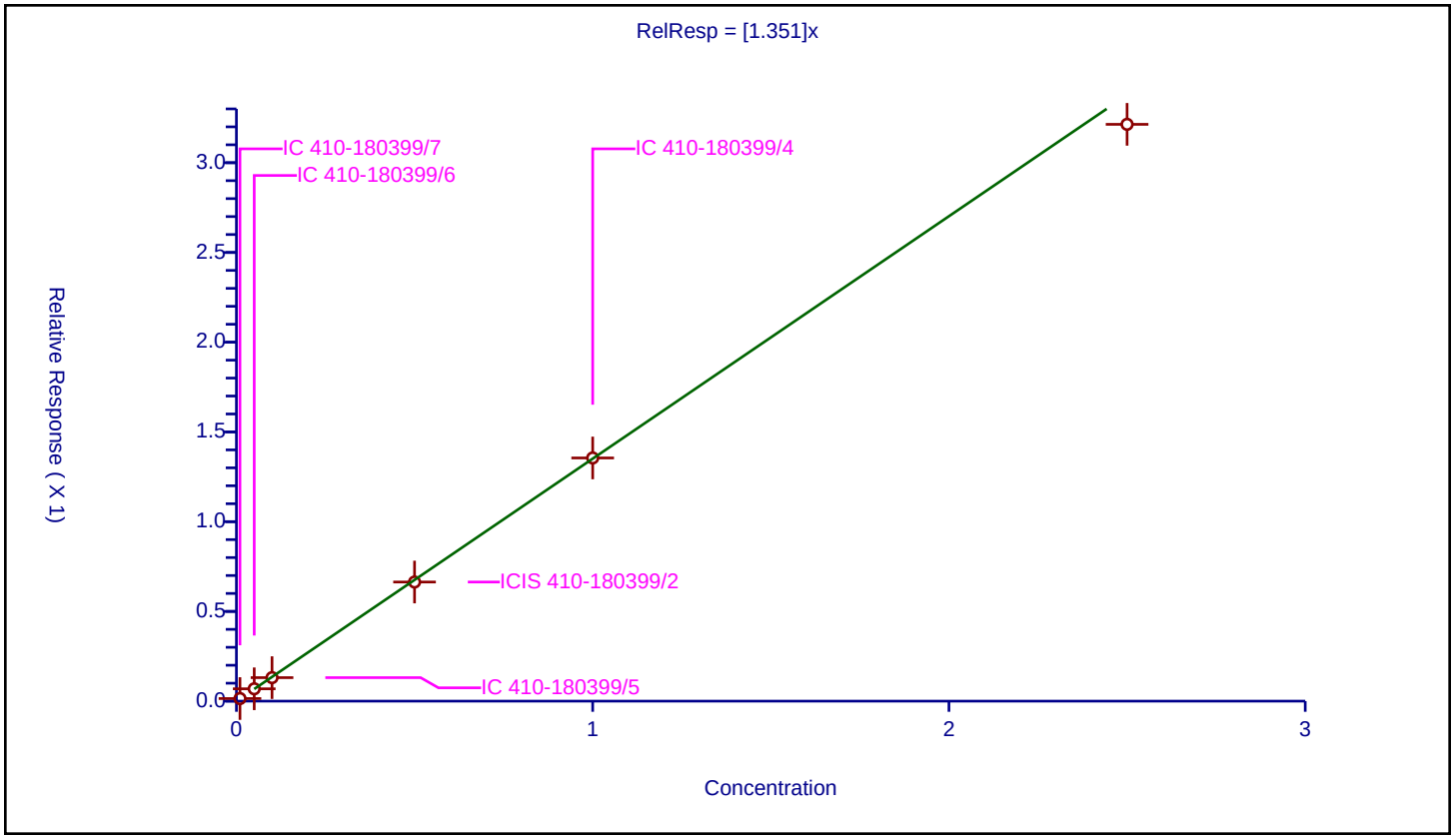
Curve Coefficients

Intercept:	0
Slope:	1.351

Error Coefficients

Standard Error:	1390000
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 410-180399/7	0.01	0.014511	0.25	240218.0	1.451078	Y
2	IC 410-180399/6	0.05	0.068809	0.25	232416.0	1.376175	Y
3	IC 410-180399/5	0.1	0.131031	0.25	238990.0	1.310306	Y
4	ICIS 410-180399/2	0.5	0.663767	0.25	218624.0	1.327535	Y
5	IC 410-180399/4	1.0	1.355002	0.25	225972.0	1.355002	Y
6	IC 410-180399/3	2.5	3.213919	0.25	216977.0	1.285568	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

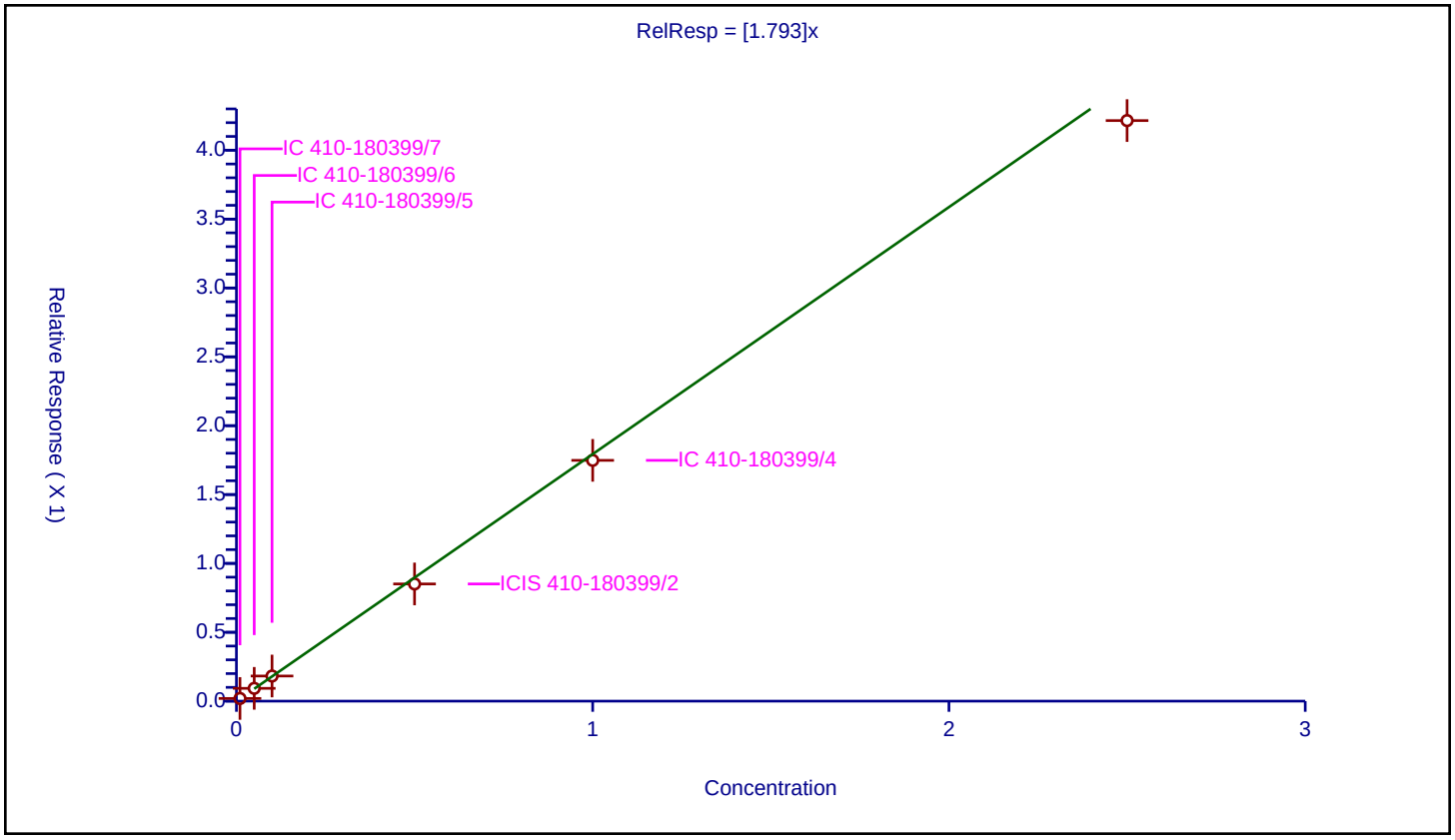
Curve Coefficients

Intercept:	0
Slope:	1.793

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.019399	0.25	193035.0	1.939933	Y
2	IC 410-180399/6	0.05	0.093008	0.25	179996.0	1.860152	Y
3	IC 410-180399/5	0.1	0.182438	0.25	181977.0	1.824379	Y
4	ICIS 410-180399/2	0.5	0.850972	0.25	179612.0	1.701944	Y
5	IC 410-180399/4	1.0	1.748147	0.25	182453.0	1.748147	Y
6	IC 410-180399/3	2.5	4.215195	0.25	178099.0	1.686078	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

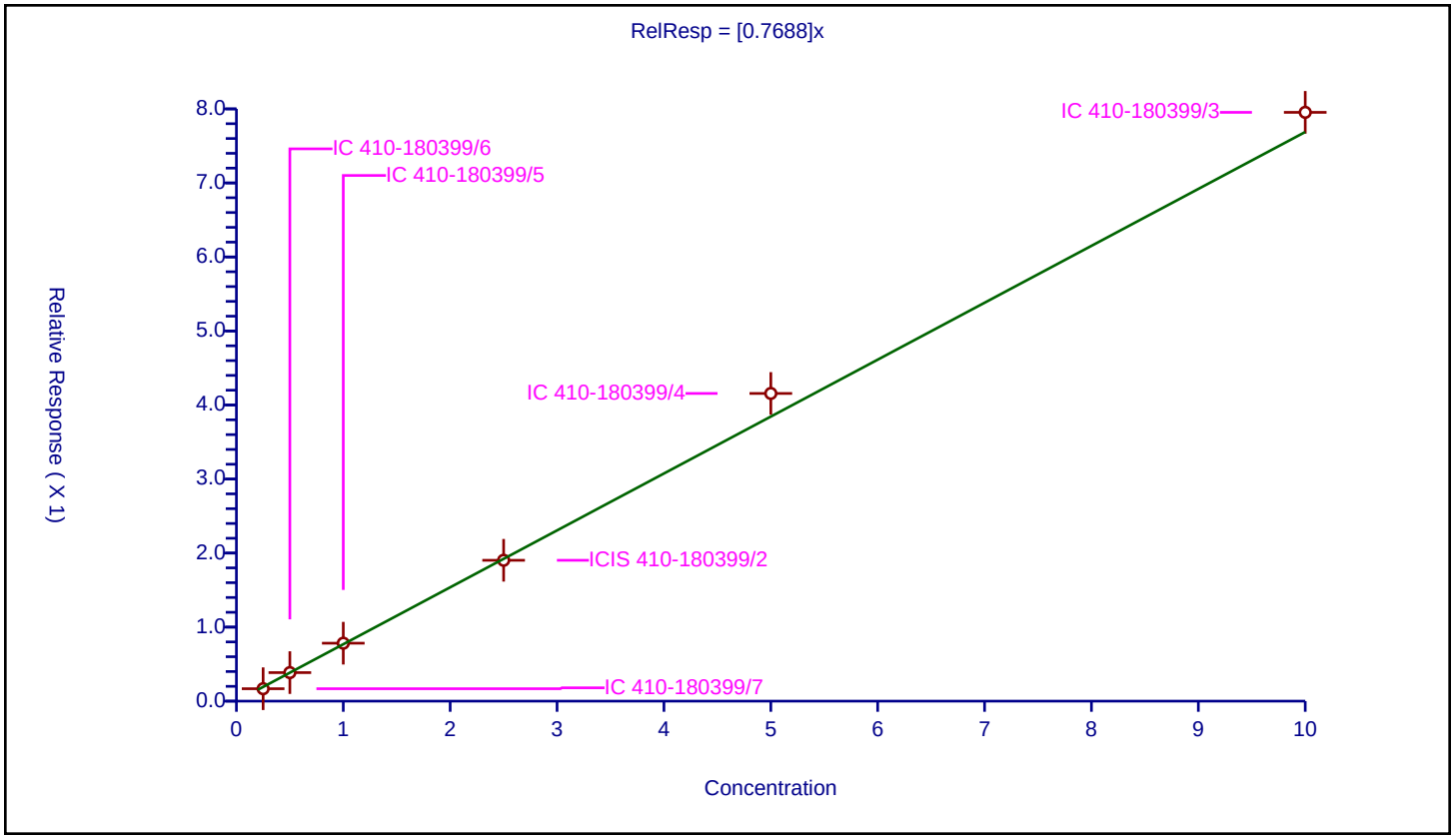
Curve Coefficients

Intercept:	0
Slope:	0.7688

Error Coefficients

Standard Error:	2950000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.25	0.167822	0.25	193035.0	0.671288	Y
2	IC 410-180399/6	0.5	0.385417	0.25	179996.0	0.770834	Y
3	IC 410-180399/5	1.0	0.782784	0.25	181977.0	0.782784	Y
4	ICIS 410-180399/2	2.5	1.902753	0.25	179612.0	0.761101	Y
5	IC 410-180399/4	5.0	4.156051	0.25	182453.0	0.83121	Y
6	IC 410-180399/3	10.0	7.953249	0.25	178099.0	0.795325	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

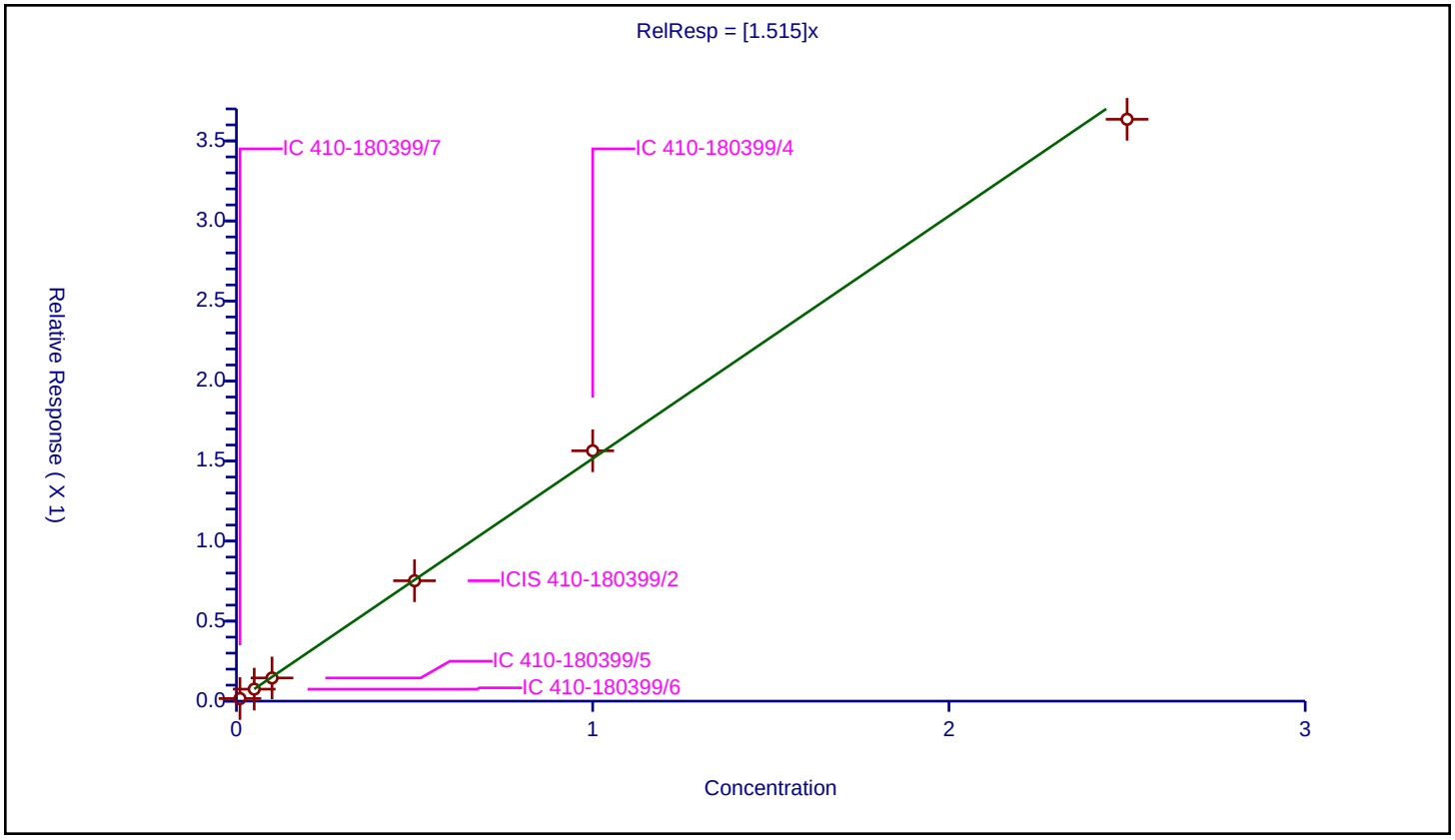
Curve Coefficients

Intercept:	0
Slope:	1.515

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	4.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.016219	0.25	193035.0	1.621856	Y
2	IC 410-180399/6	0.05	0.074966	0.25	179996.0	1.499311	Y
3	IC 410-180399/5	0.1	0.14488	0.25	181977.0	1.448796	Y
4	ICIS 410-180399/2	0.5	0.752123	0.25	179612.0	1.504245	Y
5	IC 410-180399/4	1.0	1.564049	0.25	182453.0	1.564049	Y
6	IC 410-180399/3	2.5	3.635134	0.25	178099.0	1.454054	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

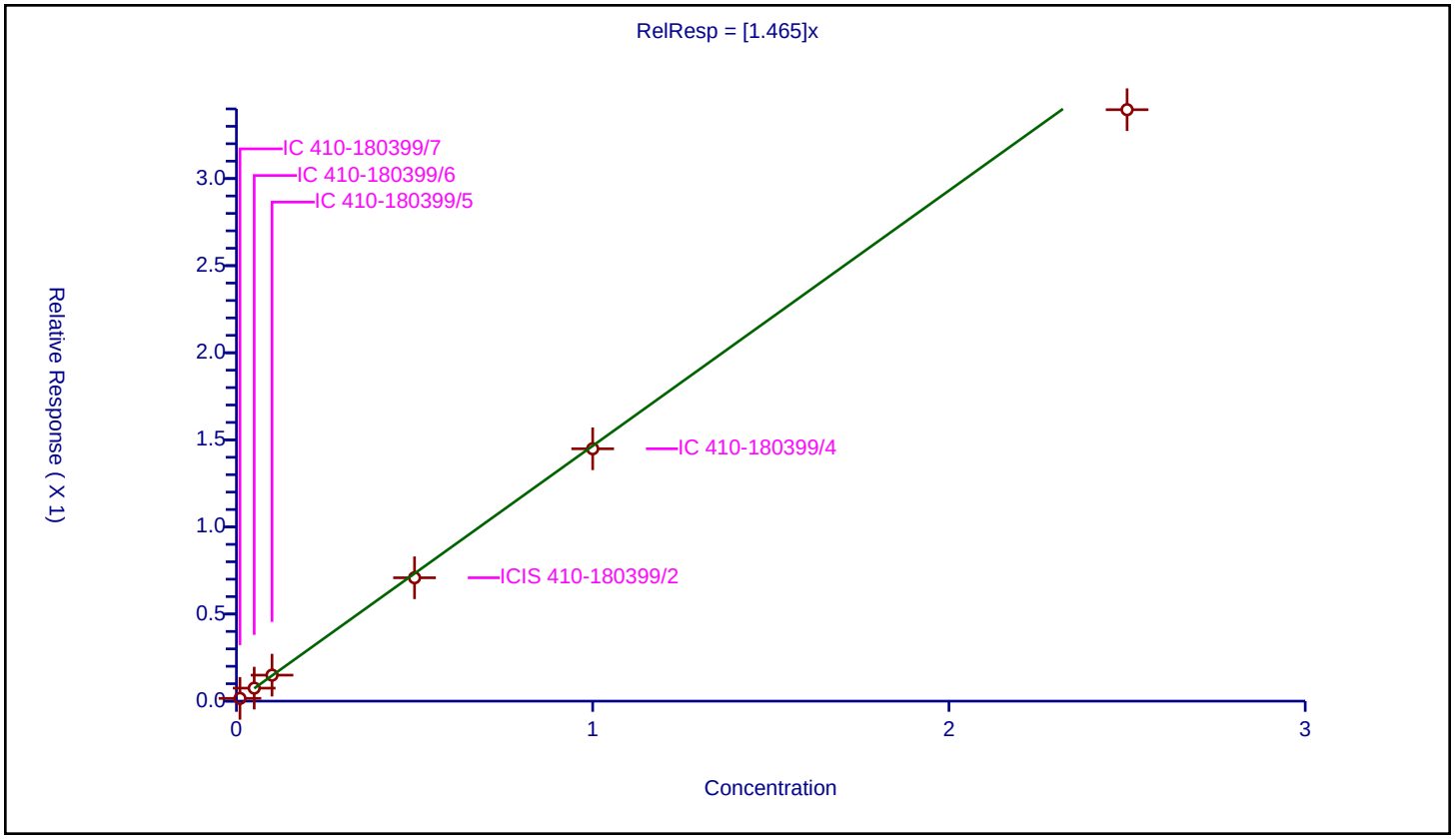
Curve Coefficients

Intercept:	0
Slope:	1.465

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.015822	0.25	193035.0	1.582226	Y
2	IC 410-180399/6	0.05	0.074716	0.25	179996.0	1.494311	Y
3	IC 410-180399/5	0.1	0.149277	0.25	181977.0	1.492771	Y
4	ICIS 410-180399/2	0.5	0.708274	0.25	179612.0	1.416548	Y
5	IC 410-180399/4	1.0	1.448753	0.25	182453.0	1.448753	Y
6	IC 410-180399/3	2.5	3.395409	0.25	178099.0	1.358164	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

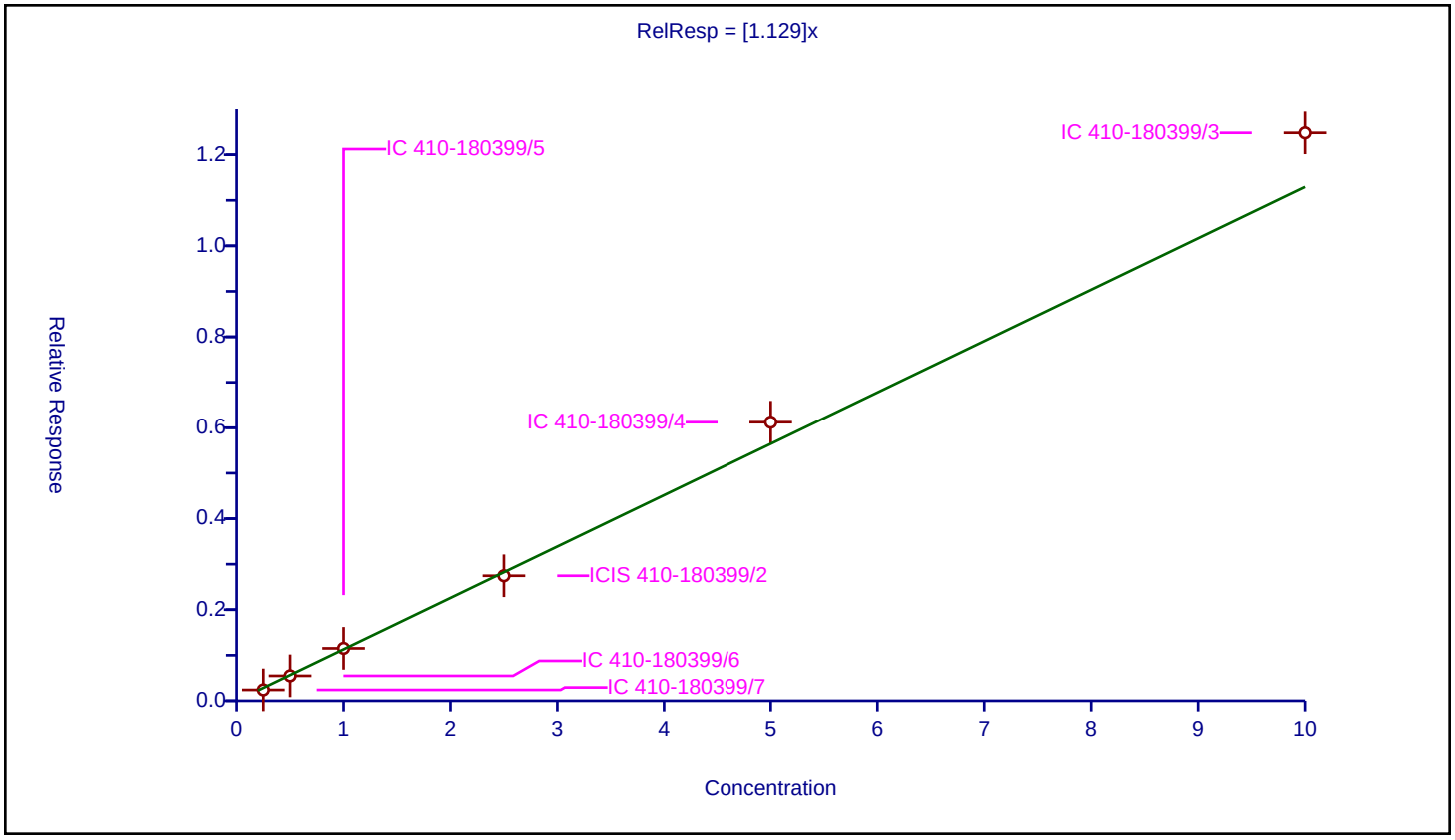
Curve Coefficients

Intercept:	0
Slope:	1.129

Error Coefficients

Standard Error:	4560000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.25	0.239497	0.25	193035.0	0.957987	Y
2	IC 410-180399/6	0.5	0.548308	0.25	179996.0	1.096616	Y
3	IC 410-180399/5	1.0	1.151361	0.25	181977.0	1.151361	Y
4	ICIS 410-180399/2	2.5	2.745748	0.25	179612.0	1.098299	Y
5	IC 410-180399/4	5.0	6.122393	0.25	182453.0	1.224479	Y
6	IC 410-180399/3	10.0	12.480939	0.25	178099.0	1.248094	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

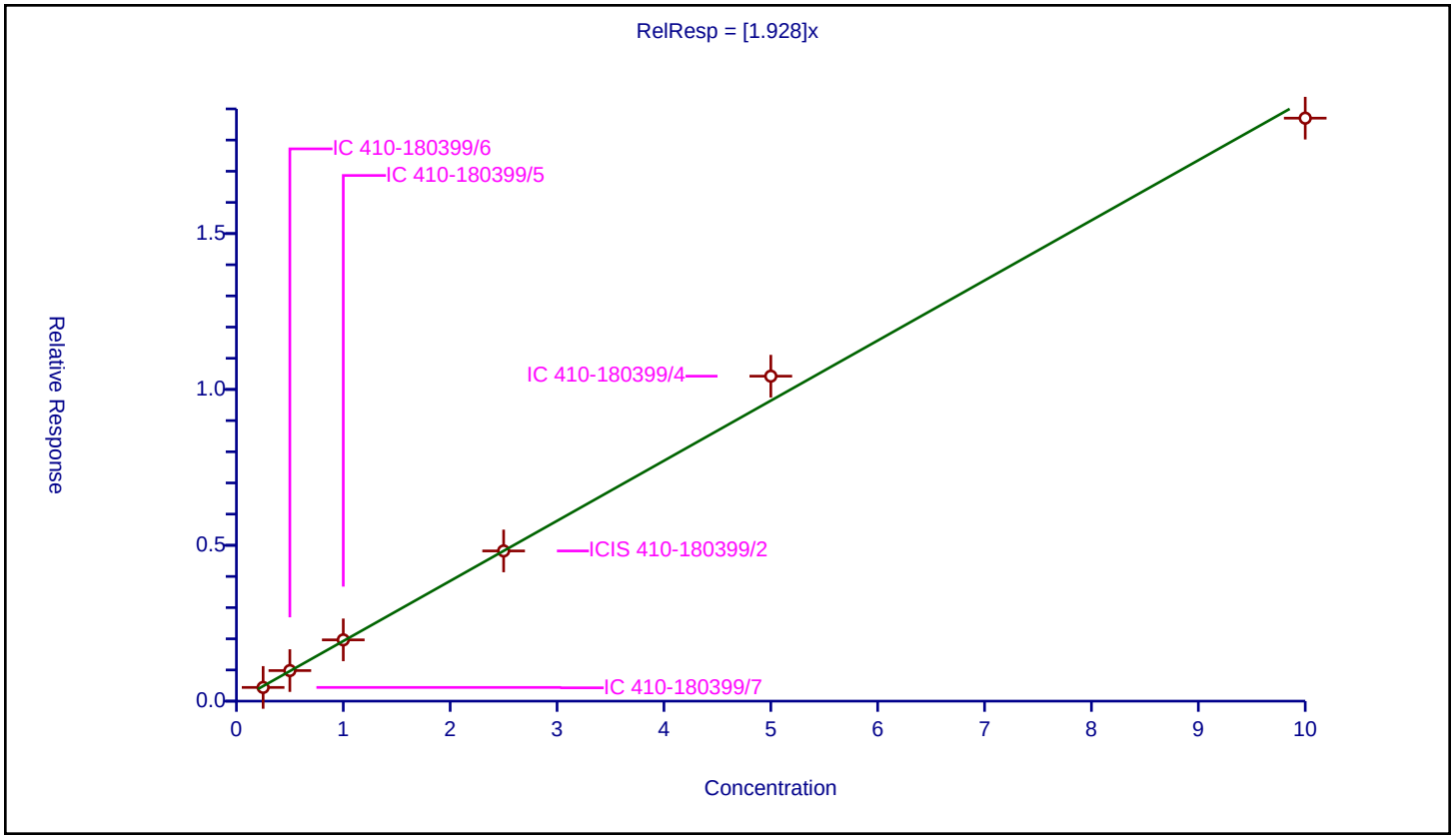
Curve Coefficients

Intercept:	0
Slope:	1.928

Error Coefficients

Standard Error:	7310000
Relative Standard Error:	5.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.25	0.439647	0.25	173824.0	1.758589	Y
2	IC 410-180399/6	0.5	0.980414	0.25	165209.0	1.960828	Y
3	IC 410-180399/5	1.0	1.96579	0.25	171703.0	1.96579	Y
4	ICIS 410-180399/2	2.5	4.81878	0.25	171547.0	1.927512	Y
5	IC 410-180399/4	5.0	10.425367	0.25	180479.0	2.085073	Y
6	IC 410-180399/3	10.0	18.702564	0.25	187710.0	1.870256	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

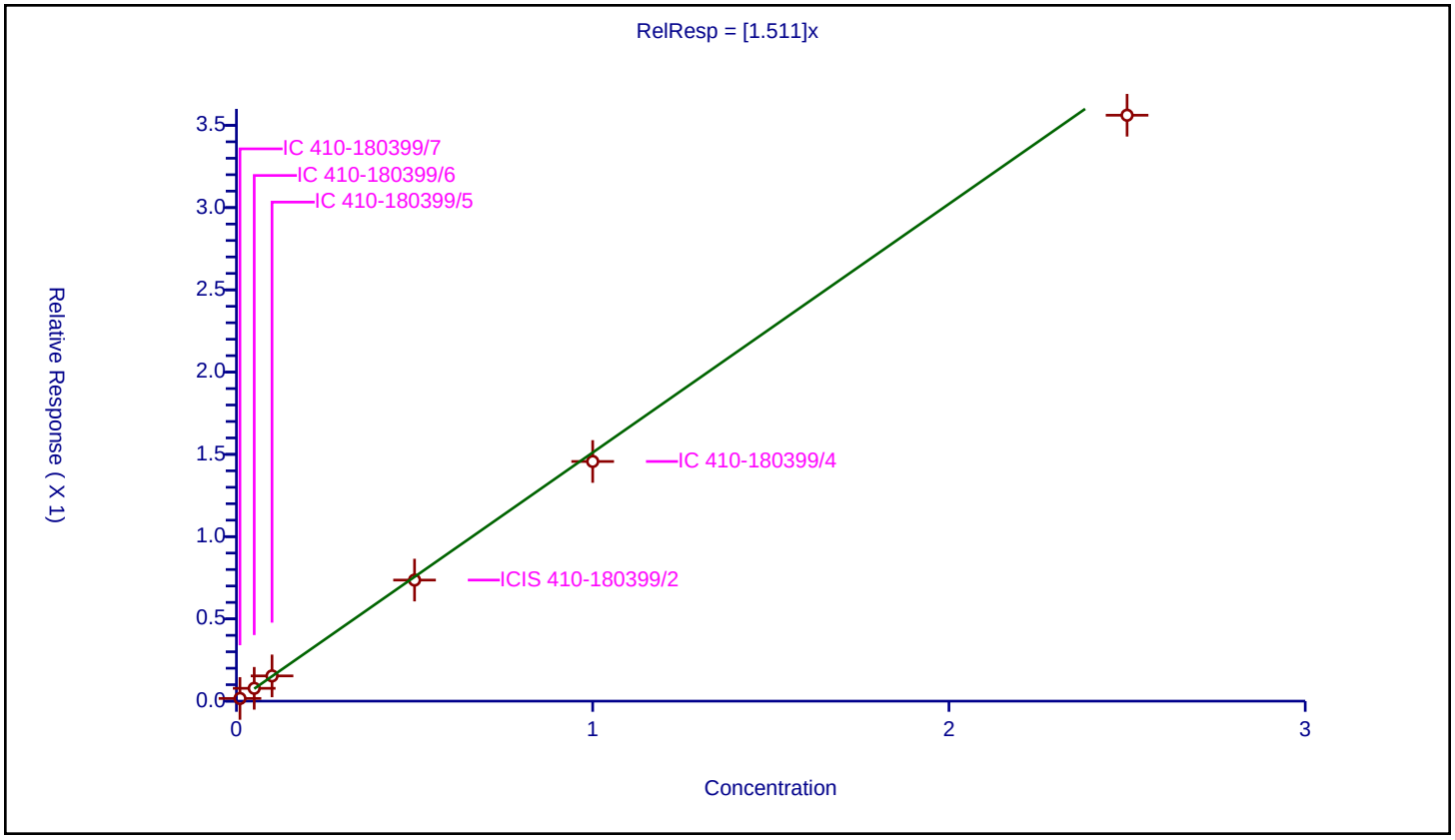
Curve Coefficients

Intercept:	0
Slope:	1.511

Error Coefficients

Standard Error:	1310000
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 410-180399/7	0.01	0.016213	0.25	173824.0	1.621324	Y
2	IC 410-180399/6	0.05	0.077904	0.25	165209.0	1.558087	Y
3	IC 410-180399/5	0.1	0.153407	0.25	171703.0	1.534073	Y
4	ICIS 410-180399/2	0.5	0.735844	0.25	171547.0	1.471687	Y
5	IC 410-180399/4	1.0	1.45678	0.25	180479.0	1.45678	Y
6	IC 410-180399/3	2.5	3.561484	0.25	187710.0	1.424594	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

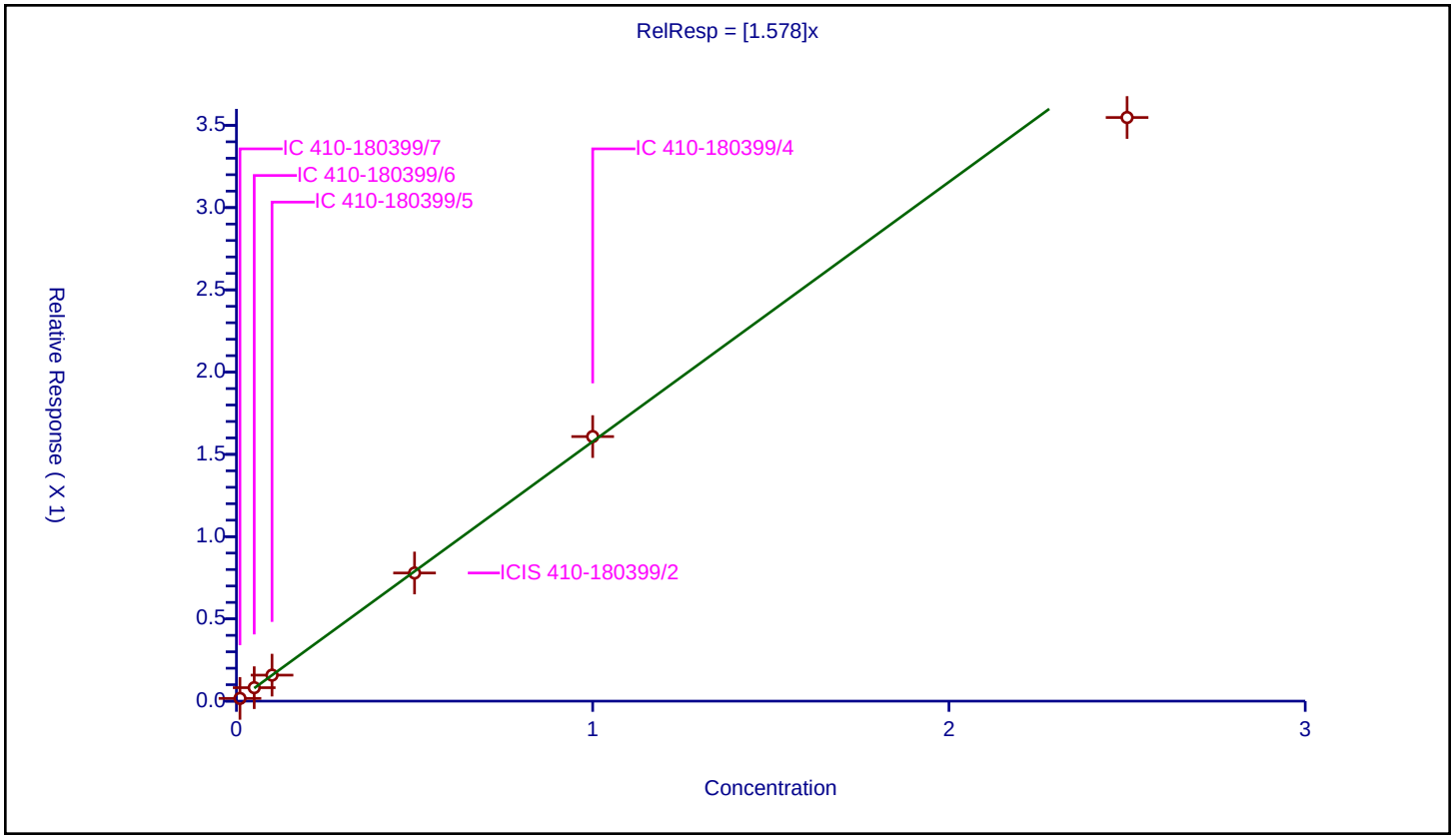
Curve Coefficients

Intercept:	0
Slope:	1.578

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.016627	0.25	173824.0	1.662745	Y
2	IC 410-180399/6	0.05	0.08189	0.25	165209.0	1.637804	Y
3	IC 410-180399/5	0.1	0.158125	0.25	171703.0	1.581248	Y
4	ICIS 410-180399/2	0.5	0.778954	0.25	171547.0	1.557908	Y
5	IC 410-180399/4	1.0	1.608254	0.25	180479.0	1.608254	Y
6	IC 410-180399/3	2.5	3.547651	0.25	187710.0	1.41906	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

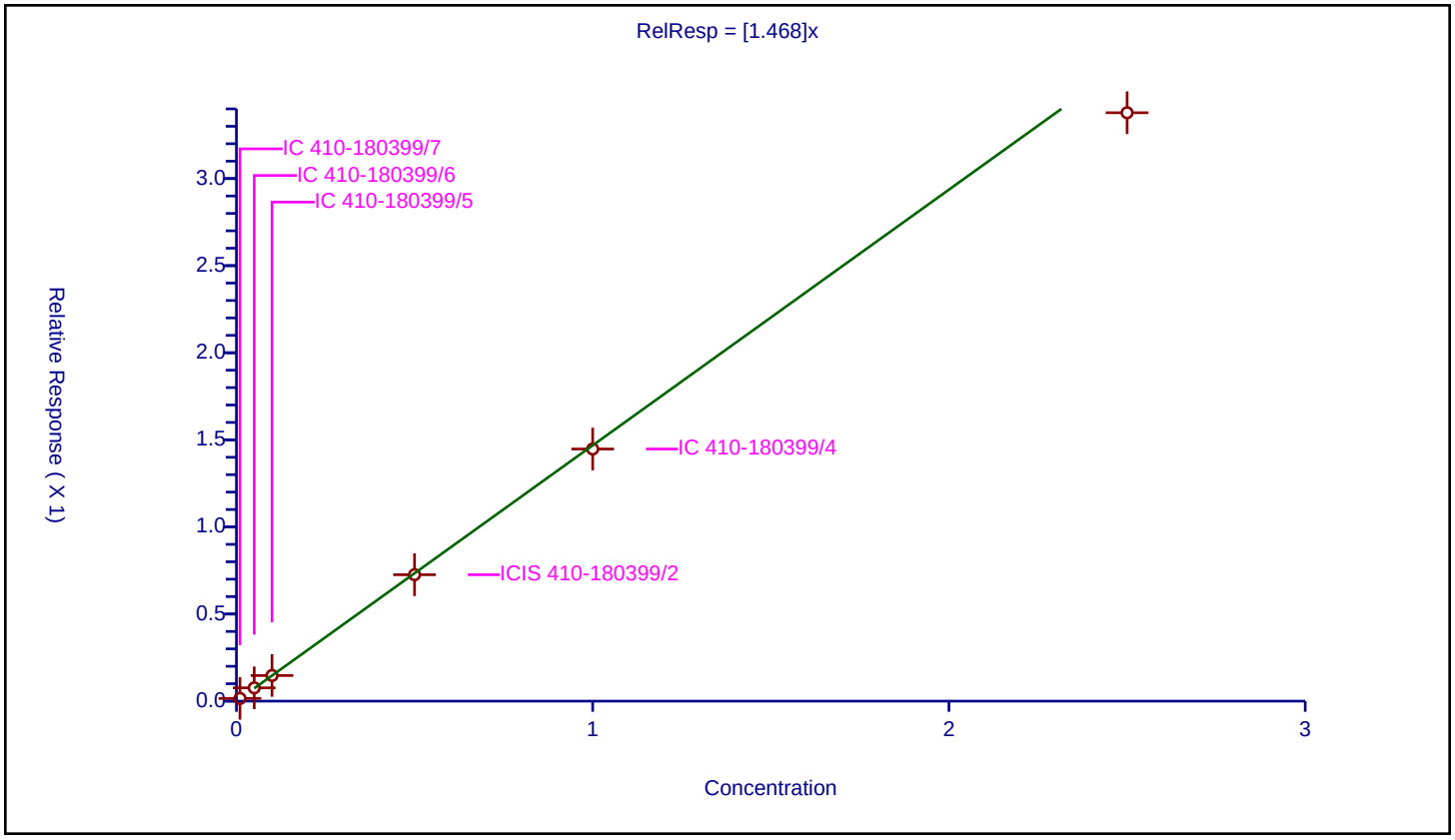
Curve Coefficients

Intercept:	0
Slope:	1.468

Error Coefficients

Standard Error:	1250000
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 410-180399/7	0.01	0.015596	0.25	173824.0	1.559624	Y
2	IC 410-180399/6	0.05	0.076358	0.25	165209.0	1.527157	Y
3	IC 410-180399/5	0.1	0.14724	0.25	171703.0	1.472397	Y
4	ICIS 410-180399/2	0.5	0.72582	0.25	171547.0	1.45164	Y
5	IC 410-180399/4	1.0	1.447488	0.25	180479.0	1.447488	Y
6	IC 410-180399/3	2.5	3.377792	0.25	187710.0	1.351117	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

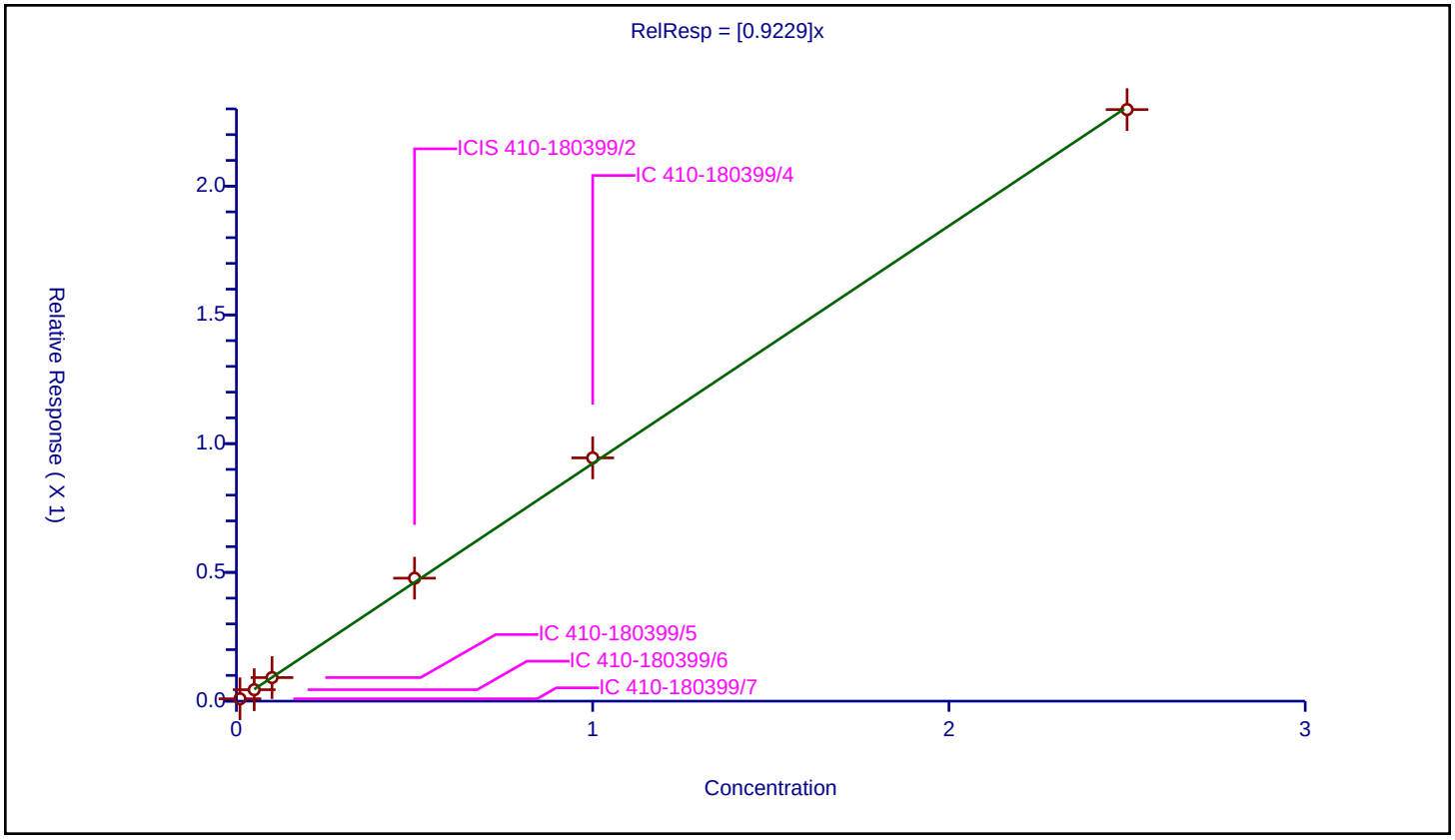
Curve Coefficients

Intercept:	0
Slope:	0.9229

Error Coefficients

Standard Error:	843000
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 410-180399/7	0.01	0.009156	0.25	173824.0	0.915581	Y
2	IC 410-180399/6	0.05	0.044385	0.25	165209.0	0.887694	Y
3	IC 410-180399/5	0.1	0.091536	0.25	171703.0	0.91536	Y
4	ICIS 410-180399/2	0.5	0.477474	0.25	171547.0	0.954948	Y
5	IC 410-180399/4	1.0	0.944751	0.25	180479.0	0.944751	Y
6	IC 410-180399/3	2.5	2.297278	0.25	187710.0	0.918911	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

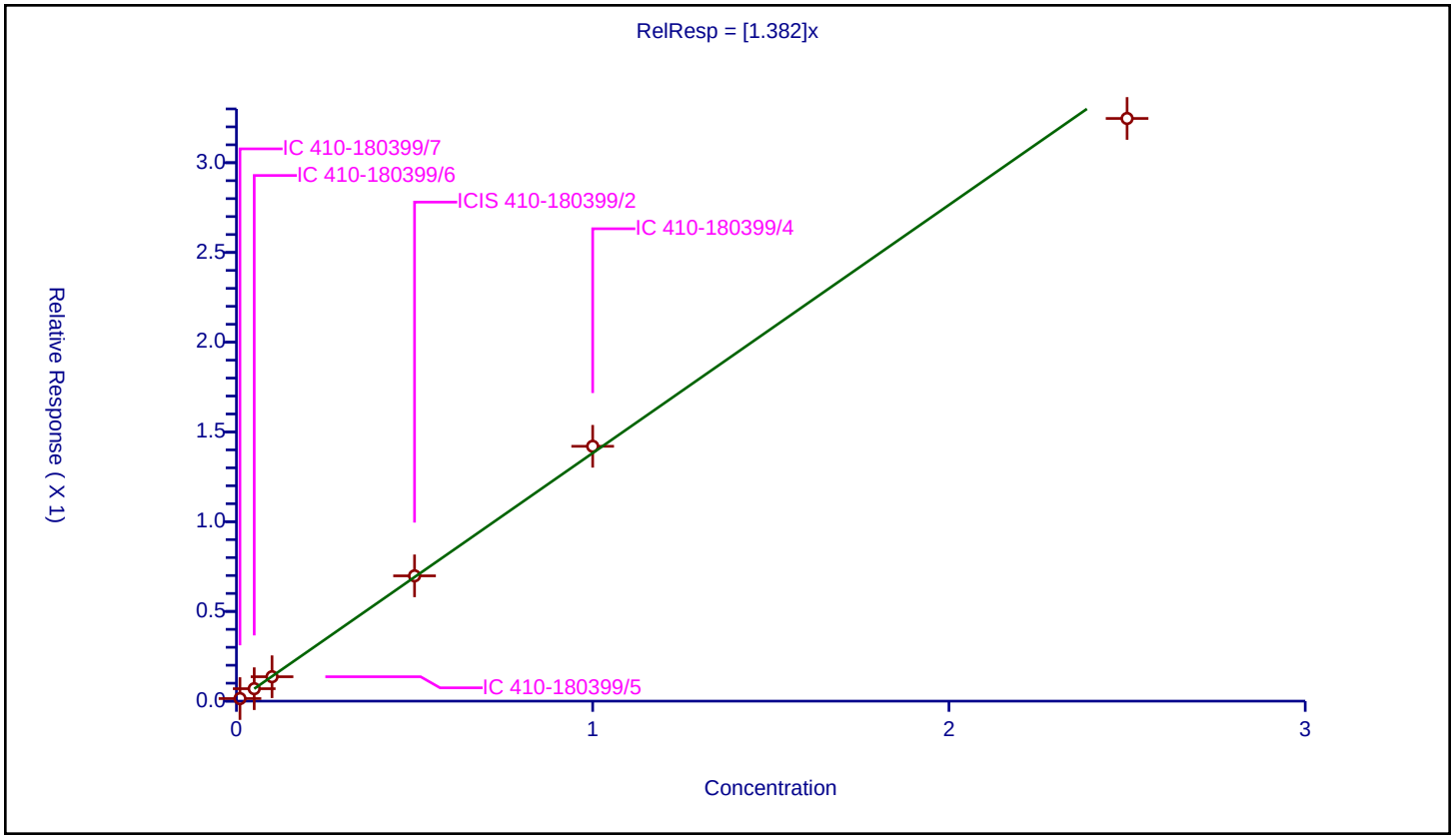
Curve Coefficients

Intercept:	0
Slope:	1.382

Error Coefficients

Standard Error:	1200000
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 410-180399/7	0.01	0.014312	0.25	173824.0	1.431189	Y
2	IC 410-180399/6	0.05	0.069362	0.25	165209.0	1.387243	Y
3	IC 410-180399/5	0.1	0.136058	0.25	171703.0	1.360576	Y
4	ICIS 410-180399/2	0.5	0.698141	0.25	171547.0	1.396282	Y
5	IC 410-180399/4	1.0	1.420082	0.25	180479.0	1.420082	Y
6	IC 410-180399/3	2.5	3.246673	0.25	187710.0	1.298669	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

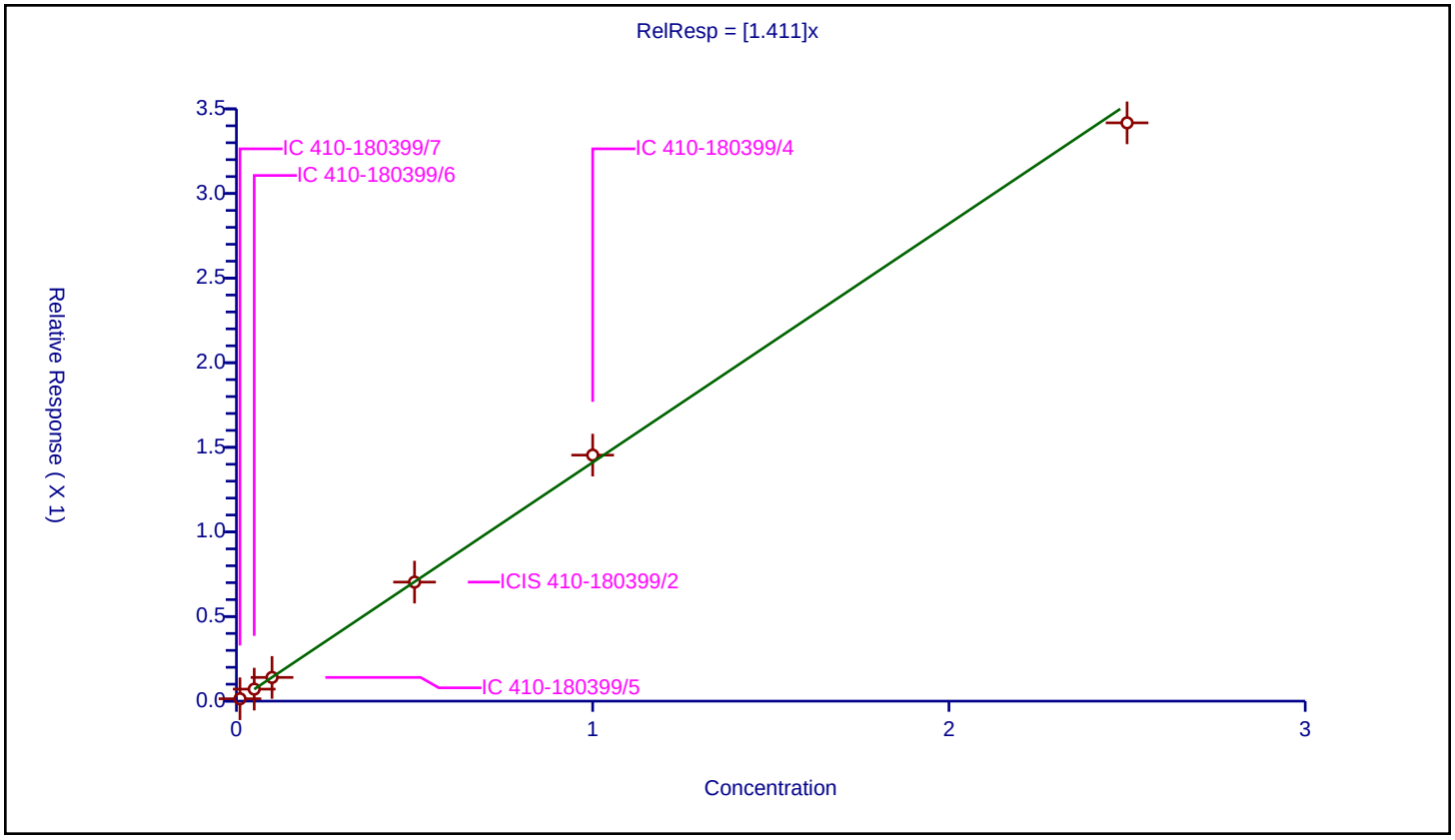
Curve Coefficients

Intercept:	0
Slope:	1.411

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.014148	0.25	173824.0	1.414793	Y
2	IC 410-180399/6	0.05	0.071012	0.25	165209.0	1.420231	Y
3	IC 410-180399/5	0.1	0.140158	0.25	171703.0	1.401577	Y
4	ICIS 410-180399/2	0.5	0.703494	0.25	171547.0	1.406988	Y
5	IC 410-180399/4	1.0	1.453903	0.25	180479.0	1.453903	Y
6	IC 410-180399/3	2.5	3.417584	0.25	187710.0	1.367034	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

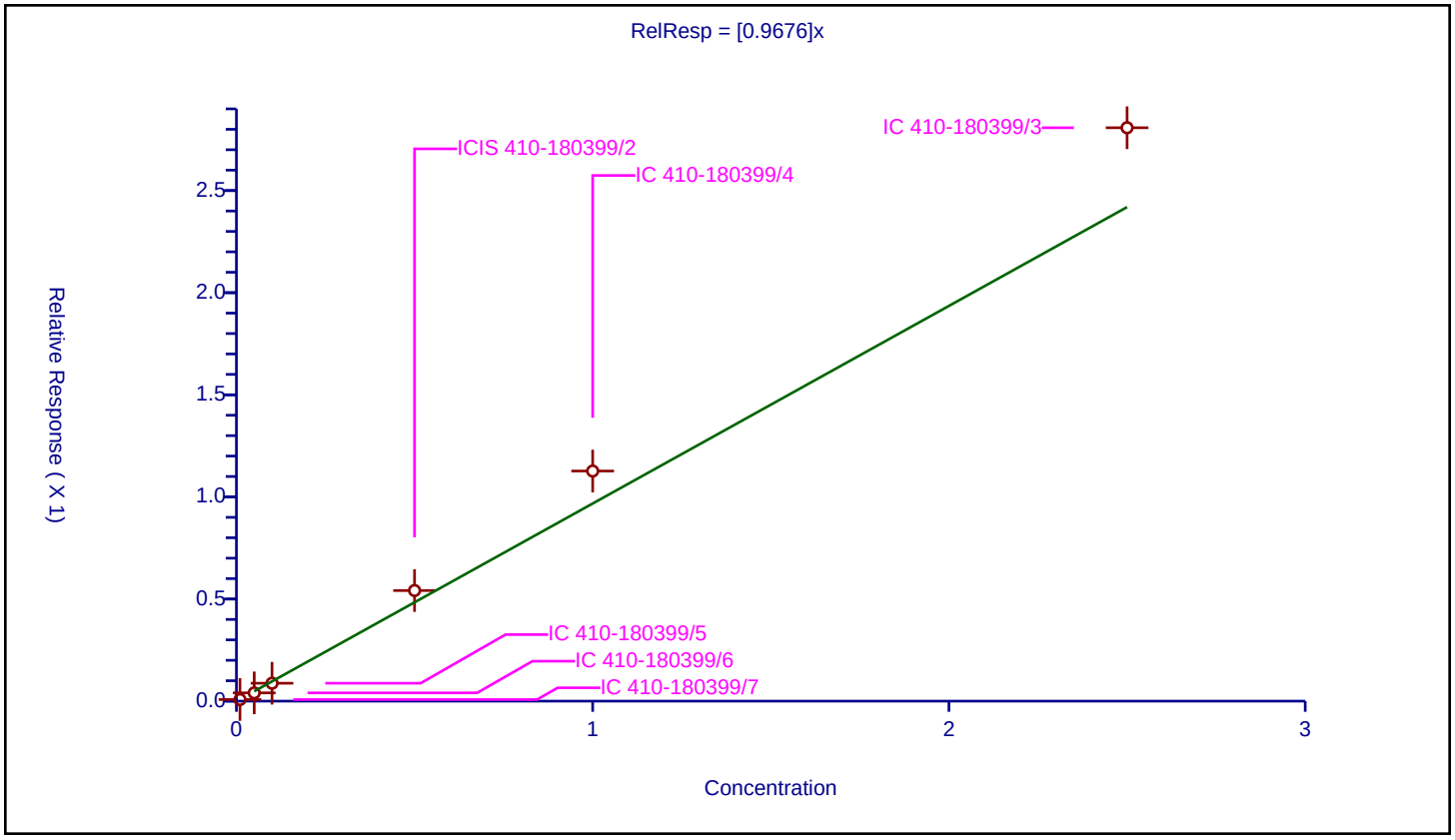
Curve Coefficients

Intercept:	0
Slope:	0.9676

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	16.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.00787	0.25	173824.0	0.787003	Y
2	IC 410-180399/6	0.05	0.040465	0.25	165209.0	0.809308	Y
3	IC 410-180399/5	0.1	0.087664	0.25	171703.0	0.876645	Y
4	ICIS 410-180399/2	0.5	0.54154	0.25	171547.0	1.083079	Y
5	IC 410-180399/4	1.0	1.126706	0.25	180479.0	1.126706	Y
6	IC 410-180399/3	2.5	2.807697	0.25	187710.0	1.123079	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

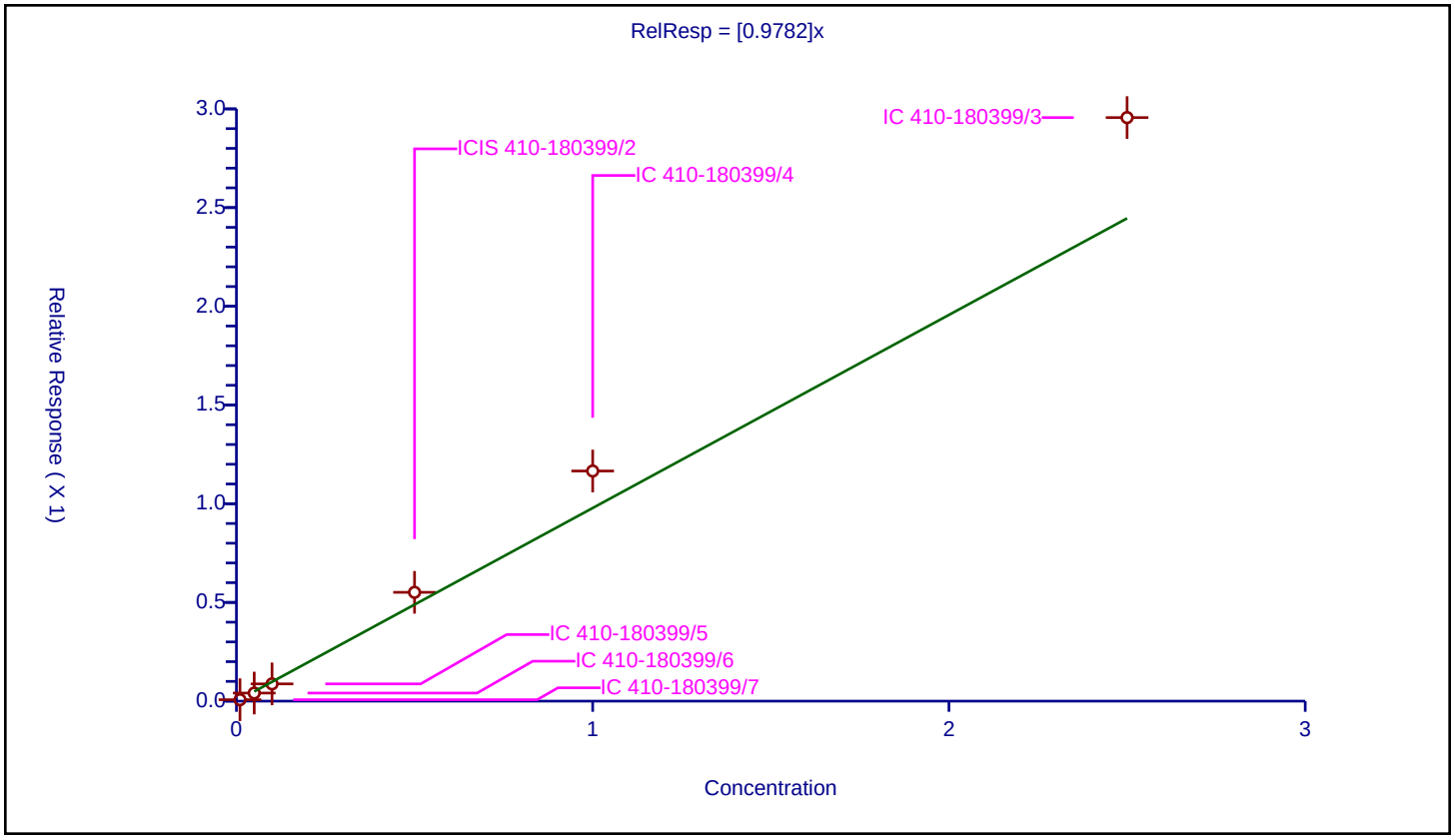
Curve Coefficients

Intercept:	0
Slope:	0.9782

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	20.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.007249	0.25	173824.0	0.724871	Y
2	IC 410-180399/6	0.05	0.040998	0.25	165209.0	0.819961	Y
3	IC 410-180399/5	0.1	0.087415	0.25	171703.0	0.874155	Y
4	ICIS 410-180399/2	0.5	0.551152	0.25	171547.0	1.102304	Y
5	IC 410-180399/4	1.0	1.165755	0.25	180479.0	1.165755	Y
6	IC 410-180399/3	2.5	2.955927	0.25	187710.0	1.182371	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

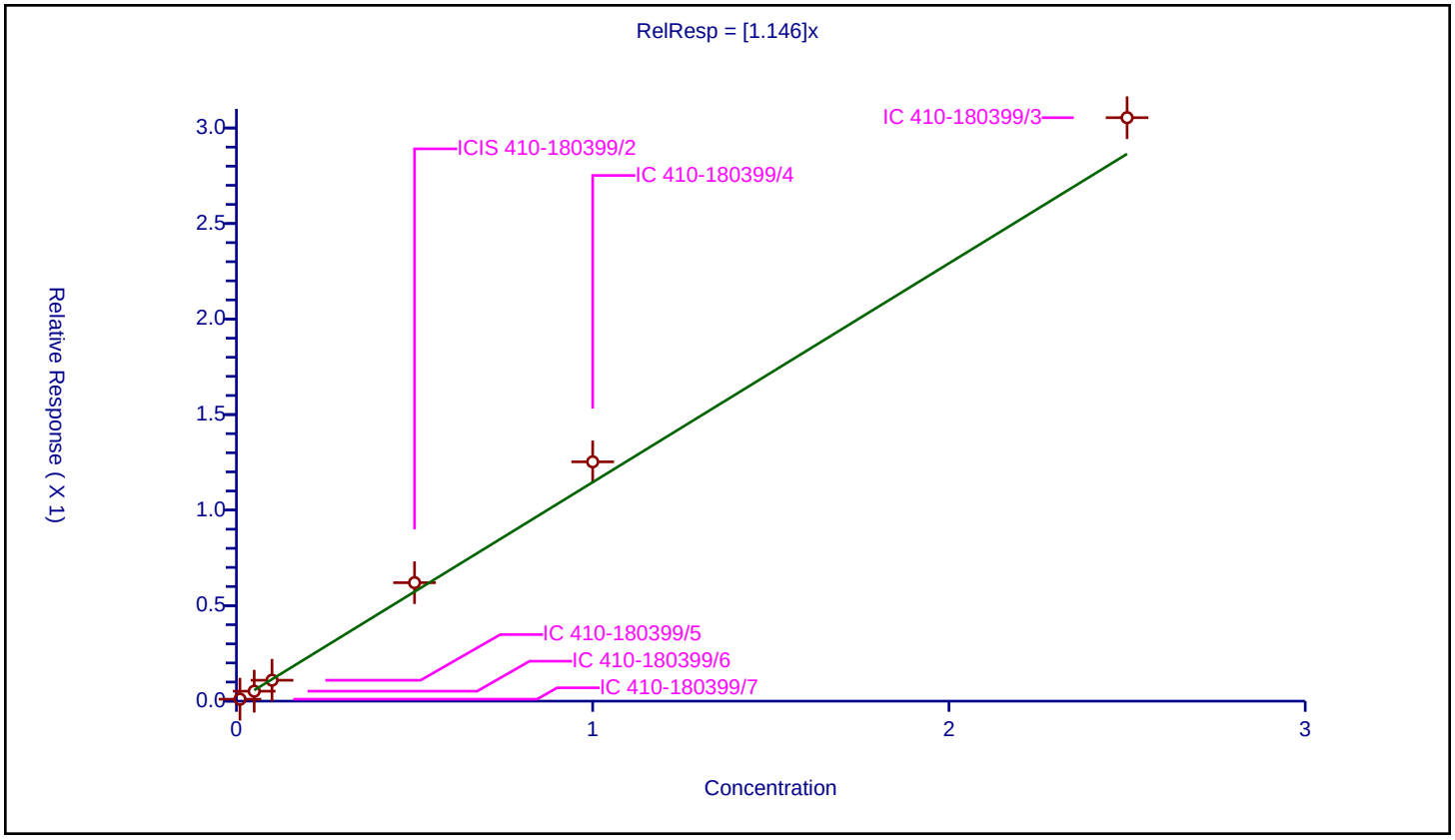
Curve Coefficients

Intercept:	0
Slope:	1.146

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-180399/7	0.01	0.010247	0.25	173824.0	1.024743	Y
2	IC 410-180399/6	0.05	0.052014	0.25	165209.0	1.040288	Y
3	IC 410-180399/5	0.1	0.109493	0.25	171703.0	1.094928	Y
4	ICIS 410-180399/2	0.5	0.62009	0.25	171547.0	1.240179	Y
5	IC 410-180399/4	1.0	1.25274	0.25	180479.0	1.25274	Y
6	IC 410-180399/3	2.5	3.054033	0.25	187710.0	1.221613	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): ICIS 410-162682/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 08/20/2021 06:11

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	20.14	17.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-179971/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/07/2021 08:55

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.93	21.70

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): ICIS 410-180399/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/08/2021 04:21

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.00	14.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-180407/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/08/2021 06:11

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.91	19.20

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-180937/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/09/2021 21:15

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.92	22.30

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-181246/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/11/2021 09:26

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.98	14.10

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-181545/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/12/2021 06:08

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.98	12.70

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-181586/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/12/2021 08:28

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.92	26.90

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-57303-1

SDG No.:

Lab Sample ID (1): CCVIS 410-182120/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 10/13/2021 08:35

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.95	12.70

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-162682/9 Calibration Date: 08/20/2021 10:08

Instrument ID: HP21585 Calib Start Date: 08/20/2021 06:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 08/20/2021 09:08

Lab File ID: MH1158.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6693	0.7108		0.266	0.250	6.2	30.0
Bis(2-chloroethyl)ether	Ave	0.5187	0.5222		0.252	0.250	0.7	30.0
Naphthalene	Ave	1.161	1.172		0.252	0.250	0.9	30.0
2-Methylnaphthalene	Ave	0.7167	0.6645		0.232	0.250	-7.3	30.0
1-Methylnaphthalene	Ave	0.6695	0.6319		0.236	0.250	-5.6	30.0
Dimethylphthalate	Ave	1.356	1.336		0.246	0.250	-1.5	30.0
Acenaphthylene	Ave	2.094	1.992		0.238	0.250	-4.8	30.0
Acenaphthene	Ave	1.273	1.208		0.237	0.250	-5.1	30.0
Dibenzofuran	Ave	1.979	1.859		0.235	0.250	-6.1	30.0
Diethylphthalate	Ave	1.358	1.296		0.239	0.250	-4.6	30.0
Fluorene	Ave	1.496	1.411		0.236	0.250	-5.6	30.0
N-Nitrosodiphenylamine	Ave	0.5275	0.6698		0.270	0.213	27.0	30.0
Hexachlorobenzene	Ave	0.2671	0.2641		0.247	0.250	-1.1	30.0
Phenanthrene	Ave	1.296	1.234		0.238	0.250	-4.8	30.0
Anthracene	Ave	1.186	1.172		0.247	0.250	-1.2	30.0
Di-n-butyl phthalate	Ave	1.365	1.271		0.233	0.250	-6.9	30.0
Fluoranthene	Ave	1.367	1.244		0.228	0.250	-9.0	30.0
Pyrene	Ave	1.660	1.567		0.236	0.250	-5.6	30.0
Butylbenzylphthalate	Ave	0.7383	0.6097		0.206	0.250	-17.4	30.0
Benzo[a]anthracene	Ave	1.437	1.375		0.239	0.250	-4.3	30.0
Chrysene	Ave	1.595	1.510		0.237	0.250	-5.3	30.0
Bis(2-ethylhexyl) phthalate	Ave	1.024	0.8070		0.197	0.250	-21.2	30.0
Di-n-octyl phthalate	Ave	1.650	1.333		0.202	0.250	-19.3	30.0
Benzo[b]fluoranthene	Ave	1.419	1.426		0.251	0.250	0.5	30.0
Benzo[k]fluoranthene	Ave	1.514	1.538		0.254	0.250	1.6	30.0
Benzo[a]pyrene	Ave	1.322	1.275		0.241	0.250	-3.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.061	1.096		0.258	0.250	3.3	30.0
Dibenz(a,h)anthracene	Ave	1.229	1.245		0.253	0.250	1.3	30.0
Benzo[g,h,i]perylene	Ave	1.297	1.296		0.250	0.250	-0.1	30.0
N-Nitrosodimethylamine	Ave	0.7791				0.250		

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1158.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 20-Aug-2021 10:08:01 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0037357-009
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:13:15 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:22:21

	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	3.814	3.822	-0.008	92	84941	0.2500	0.2655	
	3 Bis(2-chloroethyl)ether	93	7.093	7.094	0.000	96	209063	0.2500	0.2517	
*	4 1,4-Dichlorobenzene-d4	152	7.485	7.485	0.000	94	119501	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.402	9.402	0.000	97	400368	0.2500	0.2500	
	6 Naphthalene	128	9.422	9.423	0.000	93	469046	0.2500	0.2522	
	8 2-Methylnaphthalene	142	10.523	10.524	0.000	96	266046	0.2500	0.2318	
	10 1-Methylnaphthalene	142	10.682	10.683	0.000	96	252984	0.2500	0.2359	
	11 Dimethyl phthalate	163	11.758	11.758	0.000	88	255414	0.2500	0.2463	
	12 Acenaphthylene	152	11.917	11.917	0.000	100	380859	0.2500	0.2379	
*	13 Acenaphthene-d10	164	12.113	12.113	0.000	92	191178	0.2500	0.2500	
	14 Acenaphthene	154	12.149	12.150	0.000	93	230900	0.2500	0.2373	
	15 Dibenzofuran	168	12.377	12.377	0.001	100	355439	0.2500	0.2349	
	16 Diethyl phthalate	149	12.689	12.696	0.000	99	247673	0.2500	0.2386	
	17 Fluorene	166	12.806	12.806	0.000	96	269812	0.2500	0.2359	
	18 N-Nitrosodiphenylamine	169	12.970	12.977	0.000	97	181525	0.2125	0.2698	
	19 Hexachlorobenzene	284	13.508	13.508	0.008	97	84205	0.2500	0.2472	
*	20 Phenanthrene-d10	188	14.031	14.031	0.000	97	318816	0.2500	0.2500	
	21 Phenanthrene	178	14.063	14.071	0.001	100	393575	0.2500	0.2381	
	22 Anthracene	178	14.133	14.141	0.000	100	373495	0.2500	0.2469	
	23 Di-n-butyl phthalate	149	14.865	14.873	0.000	100	405330	0.2500	0.2329	
	25 Fluoranthene	202	15.805	15.814	0.000	100	396685	0.2500	0.2275	
	26 Pyrene	202	16.169	16.176	0.000	100	415697	0.2500	0.2360	
	27 Butyl benzyl phthalate	149	17.305	17.313	0.000	100	161766	0.2500	0.2065	
	28 Benzo[a]anthracene	228	18.241	18.249	0.000	100	364850	0.2500	0.2392	
*	29 Chrysene-d12	240	18.256	18.256	0.000	75	265306	0.2500	0.2500	
	30 Chrysene	228	18.302	18.310	0.000	100	400660	0.2500	0.2368	
	31 Bis(2-ethylhexyl) phthalate	149	18.379	18.387	0.000	98	214090	0.2500	0.1970	
	32 Di-n-octyl phthalate	149	19.568	19.575	0.000	100	332651	0.2500	0.2019	
	33 Benzo[b]fluoranthene	252	20.135	20.143	0.000	100	356009	0.2500	0.2513	
	34 Benzo[k]fluoranthene	252	20.181	20.189	0.000	100	384013	0.2500	0.2541	

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	20.672	20.680	0.000	100	318194	0.2500	0.2410	
* 38 Perylene-d12	264	20.764	20.772	-0.008	98	249626	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.625	22.627	0.007	98	273641	0.2500	0.2582	M
41 Dibenz(a,h)anthracene	278	22.675	22.683	0.001	99	310690	0.2500	0.2532	
42 Benzo[g,h,i]perylene	276	23.141	23.149	0.000	99	323402	0.2500	0.2497	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00026 Amount Added: 1.00 Units: mL

Report Date: 20-Aug-2021 14:14:29 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1158.D

Injection Date: 20-Aug-2021 10:08:01 Instrument ID: HP21585 Operator ID: jmg00346

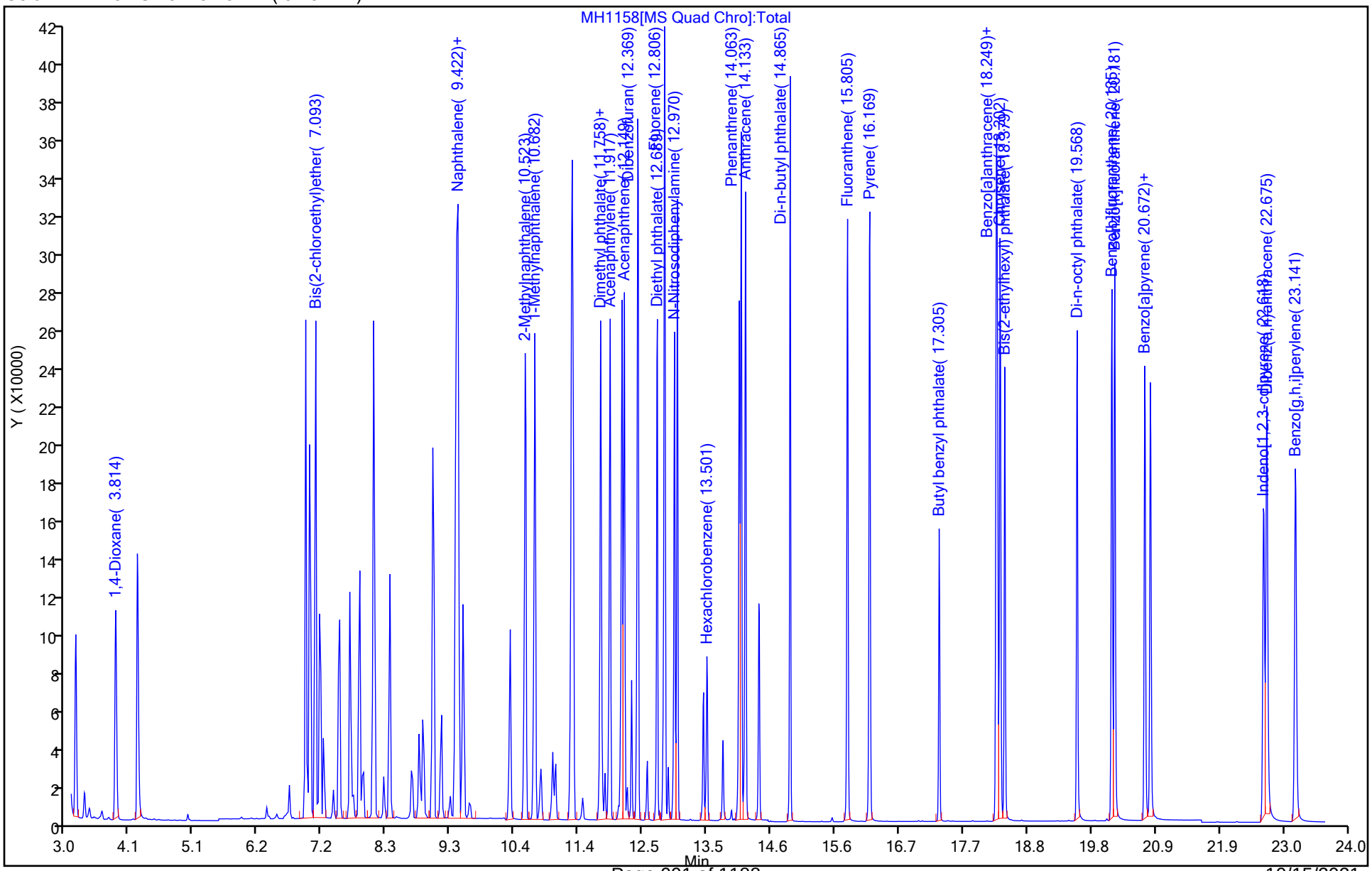
Lims ID: ICV Worklist Smp#: 9

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

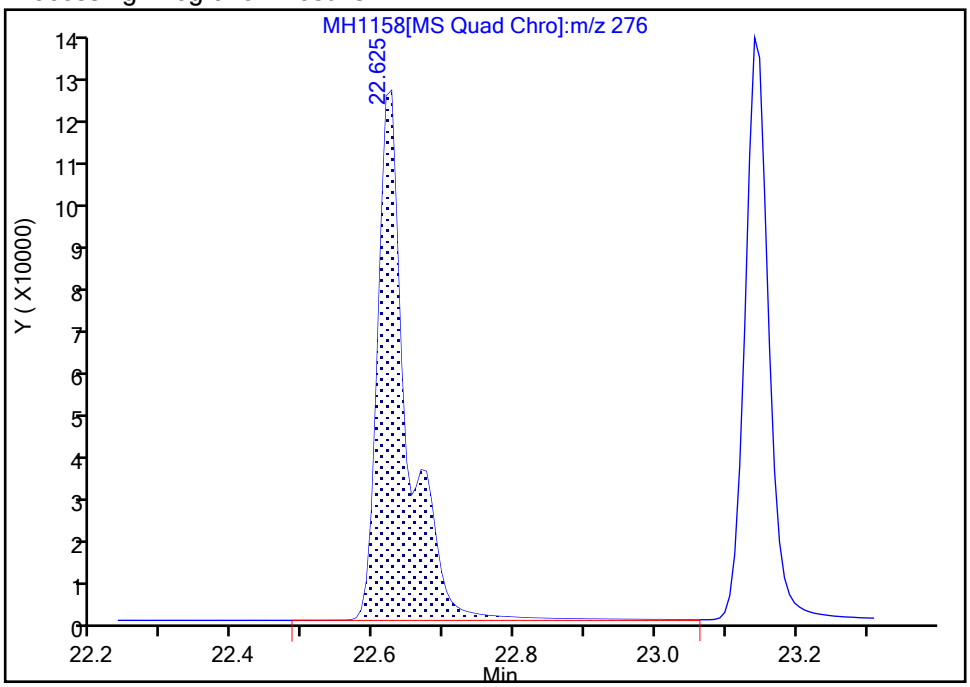
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1158.D				
Injection Date:	20-Aug-2021 10:08:01	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

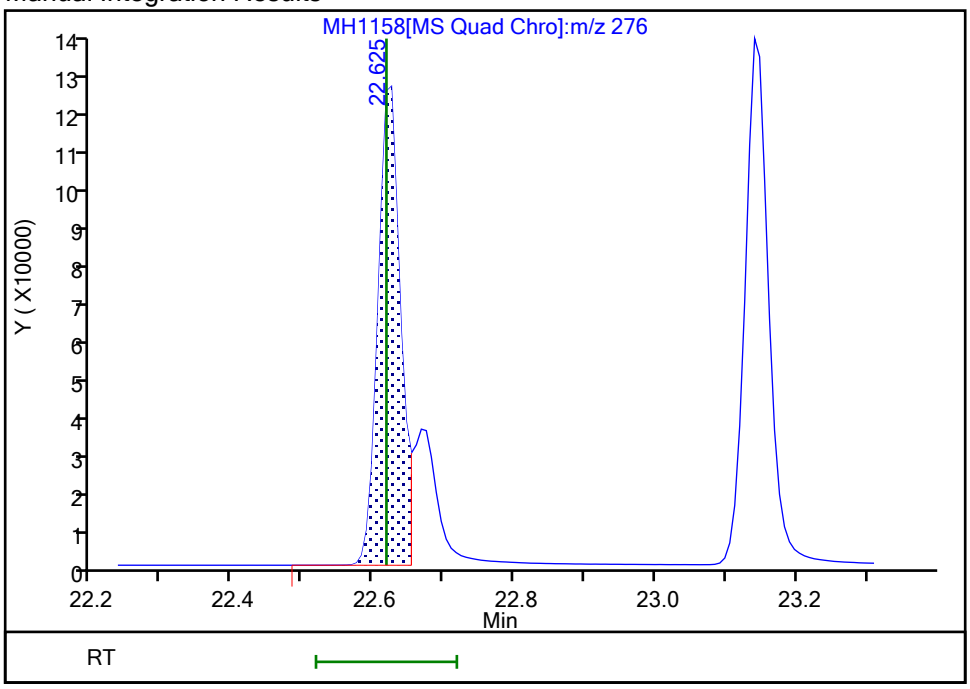
Processing Integration Results

RT: 22.63
Area: 365391
Amount: 0.344781
Amount Units: ug/ml



Manual Integration Results

RT: 22.63
Area: 273641
Amount: 0.258207
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:27:11

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

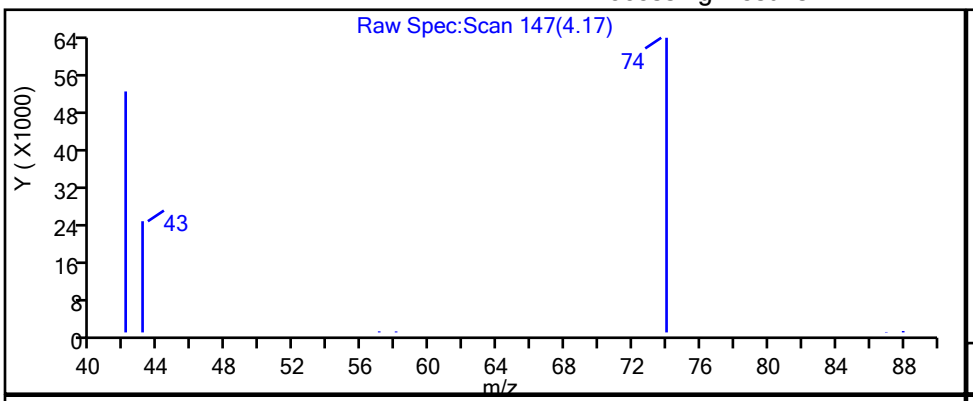
User Disabled Compound Report

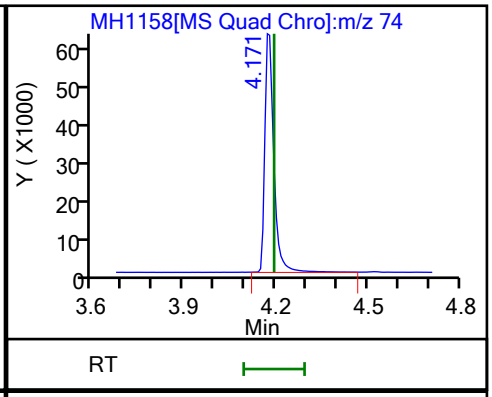
Eurofins Lancaster Laboratories Env, LLC

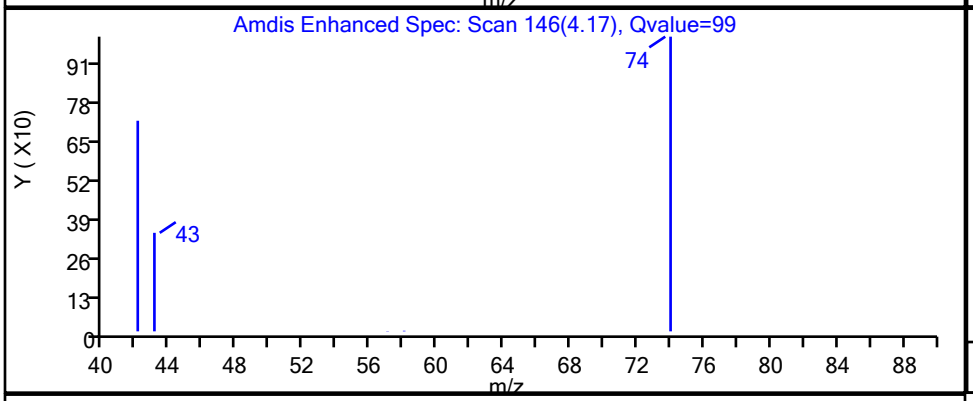
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1158.D				
Injection Date:	20-Aug-2021 10:08:01	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

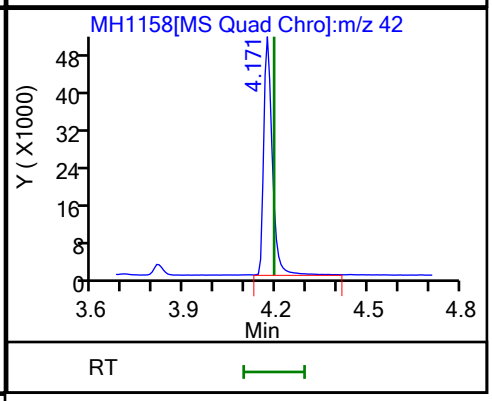
2 N-Nitrosodimethylamine, CAS: 62-75-9

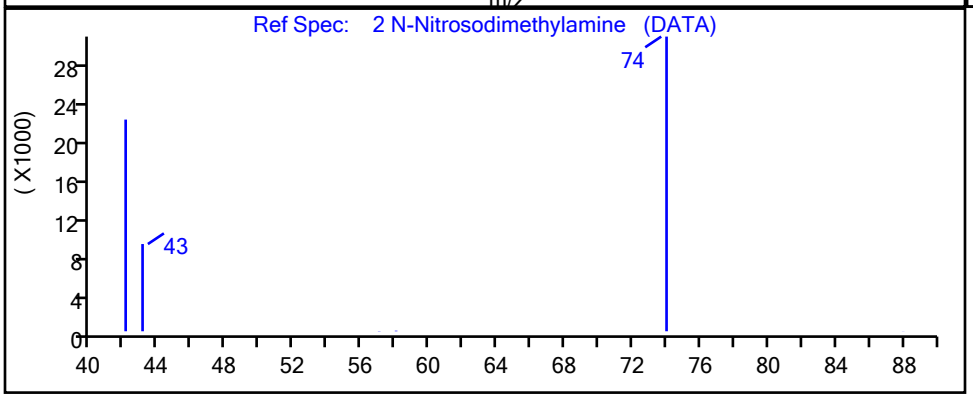
Processing Results











RT	Mass	Response	Amount
4.17	74.00	129841	0.348657
4.17	42.00	101253	

Reviewer: saadehw, 20-Aug-2021 12:26:22

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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-162682/10 Calibration Date: 08/20/2021 10:37

Instrument ID: HP21585 Calib Start Date: 08/20/2021 06:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 08/20/2021 09:08

Lab File ID: MH1159.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Methylnaphthalene-d10 (Surr)	Ave	0.4839	0.5022		0.259	0.250	3.8	30.0
Fluoranthene-d10 (Surr)	Ave	0.9902	0.9869		0.249	0.250	-0.3	30.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8893	0.8482		0.238	0.250	-4.6	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1159.D
Lims ID: ICV SS
Client ID:
Sample Type: ICV
Inject. Date: 20-Aug-2021 10:37:44 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV SS
Misc. Info.: 410-0037357-010
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 12:13:15 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: saadehw Date: 20-Aug-2021 11:22:57

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	7.382	7.485	-0.103	99	155584	0.2500	0.2500	a
* 5 Naphthalene-d8	136	9.402	9.402	0.000	93	389250	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.633	10.634	0.000	100	195475	0.2500	0.2594	
* 13 Acenaphthene-d10	164	12.113	12.113	0.000	98	185371	0.2500	0.2500	
* 20 Phenanthrene-d10	188	14.031	14.031	0.000	95	326511	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.774	15.783	0.000	100	322240	0.2500	0.2492	
* 29 Chrysene-d12	240	18.264	18.256	0.008	55	266580	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.634	20.642	0.000	98	225151	0.2500	0.2385	
* 38 Perylene-d12	264	20.764	20.772	-0.008	98	265436	0.2500	0.2500	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

MSS_RVSIM_ICV_00025 Amount Added: 1.00 Units: mL

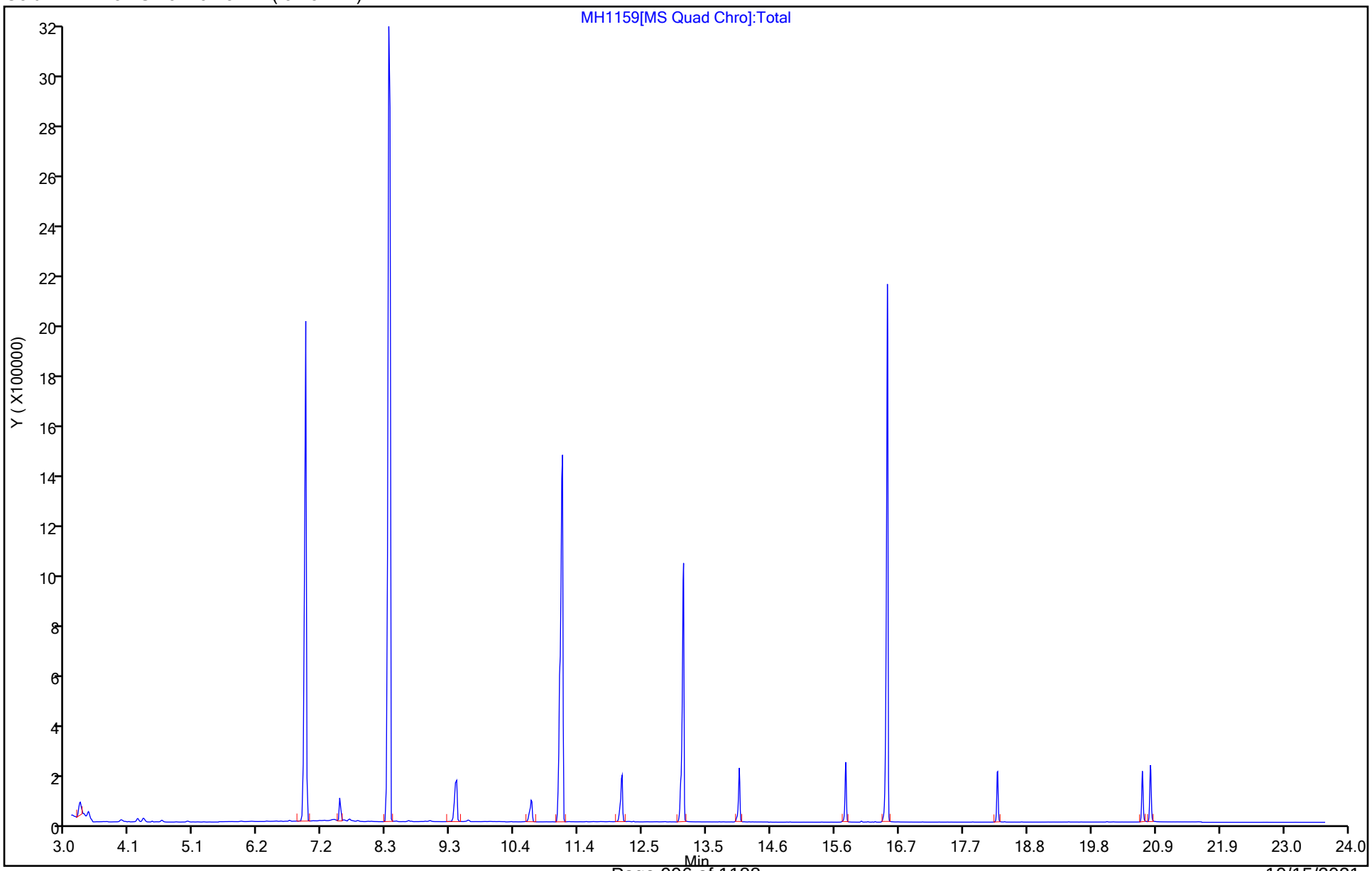
Report Date: 20-Aug-2021 14:14:31 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1159.D

Injection Date:	20-Aug-2021 10:37:44	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV SS			Worklist Smp#:	10
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

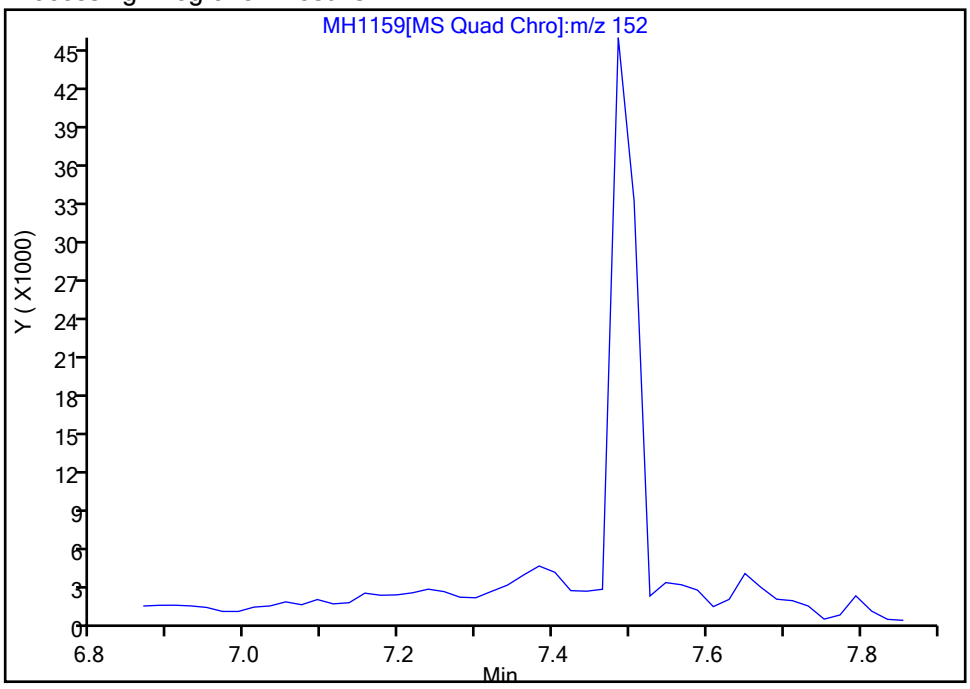
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1159.D				
Injection Date:	20-Aug-2021 10:37:44	Instrument ID:	HP21585		
Lims ID:	ICV SS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

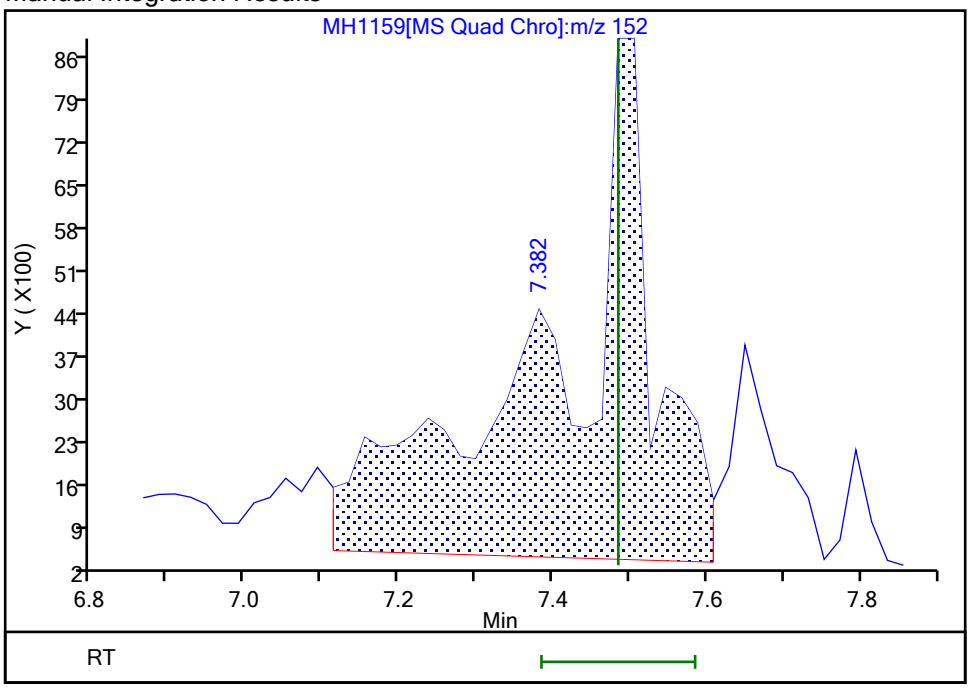
Not Detected
Expected RT: 7.48

Processing Integration Results



Manual Integration Results

RT: 7.38
Area: 155584
Amount: 0.250000
Amount Units: ug/ml



Reviewer: saadehw, 20-Aug-2021 11:22:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-179971/2 Calibration Date: 10/07/2021 08:55

Instrument ID: HP21585 Calib Start Date: 08/20/2021 06:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 08/20/2021 09:08

Lab File ID: MJ0501.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6693	0.7535		0.563	0.500	12.6	20.0
N-Nitrosodimethylamine	Ave	0.7791	0.8416		0.540	0.500	8.0	20.0
Bis(2-chloroethyl)ether	Ave	0.5187	0.4436		0.428	0.500	-14.5	20.0
Naphthalene	Ave	1.161	1.197		0.516	0.500	3.1	20.0
Quinoline	Ave	0.6554	0.5975		0.456	0.500	-8.8	20.0
2-Methylnaphthalene	Ave	0.7167	0.7344		0.512	0.500	2.5	20.0
1-Methylnaphthalene	Ave	0.6695	0.7129		0.532	0.500	6.5	20.0
Dimethylphthalate	Ave	1.356	1.222		2.25	2.50	-9.9	20.0
Acenaphthylene	Ave	2.094	1.889		0.451	0.500	-9.7	20.0
Acenaphthene	Ave	1.273	1.159		0.455	0.500	-8.9	20.0
Dibenzofuran	Ave	1.979	1.778		0.449	0.500	-10.1	20.0
Diethylphthalate	Ave	1.358	1.266		2.33	2.50	-6.7	20.0
Fluorene	Ave	1.496	1.379		0.461	0.500	-7.8	20.0
N-Nitrosodiphenylamine	Ave	0.5275	0.4882		0.463	0.500	-7.4	20.0
Hexachlorobenzene	Ave	0.2671	0.1985		0.372	0.500	-25.7*	20.0
Phenanthrene	Ave	1.296	1.149		0.443	0.500	-11.3	20.0
Anthracene	Ave	1.186	1.181		0.498	0.500	-0.4	20.0
Di-n-butyl phthalate	Ave	1.365	1.343		2.46	2.50	-1.6	20.0
Fluoranthene	Ave	1.367	1.389		0.508	0.500	1.6	20.0
Pyrene	Ave	1.660	1.433		0.431	0.500	-13.7	20.0
Butylbenzylphthalate	Ave	0.7383	0.6462		2.19	2.50	-12.5	20.0
Benzo[a]anthracene	Ave	1.437	1.297		0.451	0.500	-9.8	20.0
Chrysene	Ave	1.595	1.478		0.463	0.500	-7.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.024	0.9223		2.25	2.50	-9.9	20.0
Di-n-octyl phthalate	Ave	1.650	1.486		2.25	2.50	-9.9	20.0
Benzo[b]fluoranthene	Ave	1.419	1.252		0.441	0.500	-11.8	20.0
Benzo[k]fluoranthene	Ave	1.514	1.437		0.475	0.500	-5.1	20.0
Benzo[e]pyrene	Ave	1.382	1.257		0.455	0.500	-9.0	20.0
Benzo[a]pyrene	Ave	1.322	1.248		0.472	0.500	-5.6	20.0
Perylene	Ave	1.459	1.300		0.446	0.500	-10.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.061	0.9919		0.467	0.500	-6.5	20.0
Dibenz(a,h)anthracene	Ave	1.229	1.241		0.505	0.500	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.297	1.215		0.468	0.500	-6.3	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.4839	0.5326		0.550	0.500	10.1	20.0
Fluoranthene-d10 (Surr)	Ave	0.9902	1.101		0.556	0.500	11.2	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8893	0.9167		0.515	0.500	3.1	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0501.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Oct-2021 08:55:41 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0040957-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Oct-2021 09:25:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: gamblerj Date: 07-Oct-2021 09:25:19

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	3.569	3.569	0.000	98	94165	0.5000	0.5629	
2 N-Nitrosodimethylamine	74	3.992	3.992	0.000	100	105180	0.5000	0.5401	
3 Bis(2-chloroethyl)ether	93	6.970	6.970	0.000	96	202983	0.5000	0.4276	
* 4 1,4-Dichlorobenzene-d4	152	7.341	7.341	0.000	88	62488	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	228799	0.2500	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	93	547922	0.5000	0.5155	
7 Quinoline	129	9.855	9.855	0.000	100	273419	0.5000	0.4558	
8 2-Methylnaphthalene	142	10.377	10.377	0.000	96	336068	0.5000	0.5124	
$ 9 1-Methylnaphthalene-d10	152	10.475	10.475	0.000	100	243698	0.5000	0.5503	
10 1-Methylnaphthalene	142	10.536	10.536	0.000	97	326236	0.5000	0.5324	
11 Dimethyl phthalate	163	11.636	11.636	0.000	87	1469417	2.50	2.25	
12 Acenaphthylene	152	11.783	11.783	0.000	100	454420	0.5000	0.4513	
* 13 Acenaphthene-d10	164	11.991	11.991	0.000	88	120249	0.2500	0.2500	
14 Acenaphthene	154	12.027	12.027	0.000	93	278702	0.5000	0.4553	
15 Dibenzofuran	168	12.266	12.266	0.000	100	427721	0.5000	0.4493	
16 Diethyl phthalate	149	12.570	12.570	0.000	99	1522363	2.50	2.33	
17 Fluorene	166	12.687	12.687	0.000	96	331552	0.5000	0.4609	
18 N-Nitrosodiphenylamine	169	12.859	12.859	0.000	98	202280	0.5000	0.4628	
19 Hexachlorobenzene	284	13.374	13.374	0.000	100	82252	0.5000	0.3716	
* 20 Phenanthrene-d10	188	13.889	13.889	0.000	95	207154	0.2500	0.2500	
21 Phenanthrene	178	13.920	13.920	0.000	100	476175	0.5000	0.4434	
22 Anthracene	178	13.998	13.998	0.000	100	489240	0.5000	0.4978	
23 Di-n-butyl phthalate	149	14.706	14.706	0.000	100	2782986	2.50	2.46	
$ 24 Fluoranthene-d10 (Surr)	212	15.603	15.603	0.000	100	456289	0.5000	0.5561	
25 Fluoranthene	202	15.634	15.634	0.000	100	575366	0.5000	0.5079	
26 Pyrene	202	15.991	15.991	0.000	100	611404	0.5000	0.4315	
27 Butyl benzyl phthalate	149	17.112	17.112	0.000	100	1379020	2.50	2.19	
28 Benzo[a]anthracene	228	18.048	18.048	0.000	100	553526	0.5000	0.4512	
* 29 Chrysene-d12	240	18.063	18.063	0.000	92	213390	0.2500	0.2500	
30 Chrysene	228	18.109	18.109	0.000	100	630831	0.5000	0.4635	

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	18.163	18.163	0.000	98	1968201	2.50	2.25	
32 Di-n-octyl phthalate	149	19.344	19.344	0.000	100	3464611	2.50	2.25	
33 Benzo[b]fluoranthene	252	19.934	19.934	0.000	100	583495	0.5000	0.4411	
34 Benzo[k]fluoranthene	252	19.980	19.980	0.000	100	669761	0.5000	0.4746	
35 Benzo[e]pyrene	252	20.387	20.387	0.000	100	586078	0.5000	0.4548	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.440	20.440	0.000	99	427400	0.5000	0.5154	
37 Benzo[a]pyrene	252	20.479	20.479	0.000	100	581664	0.5000	0.4718	
* 38 Perylene-d12	264	20.571	20.571	0.000	99	233115	0.2500	0.2500	
39 Perylene	252	20.609	20.609	0.000	100	606118	0.5000	0.4456	
40 Indeno[1,2,3-cd]pyrene	276	22.355	22.355	0.000	98	462446	0.5000	0.4673	M
41 Dibenz(a,h)anthracene	278	22.390	22.390	0.000	96	578774	0.5000	0.5051	
42 Benzo[g,h,i]perylene	276	22.849	22.849	0.000	100	566512	0.5000	0.4684	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

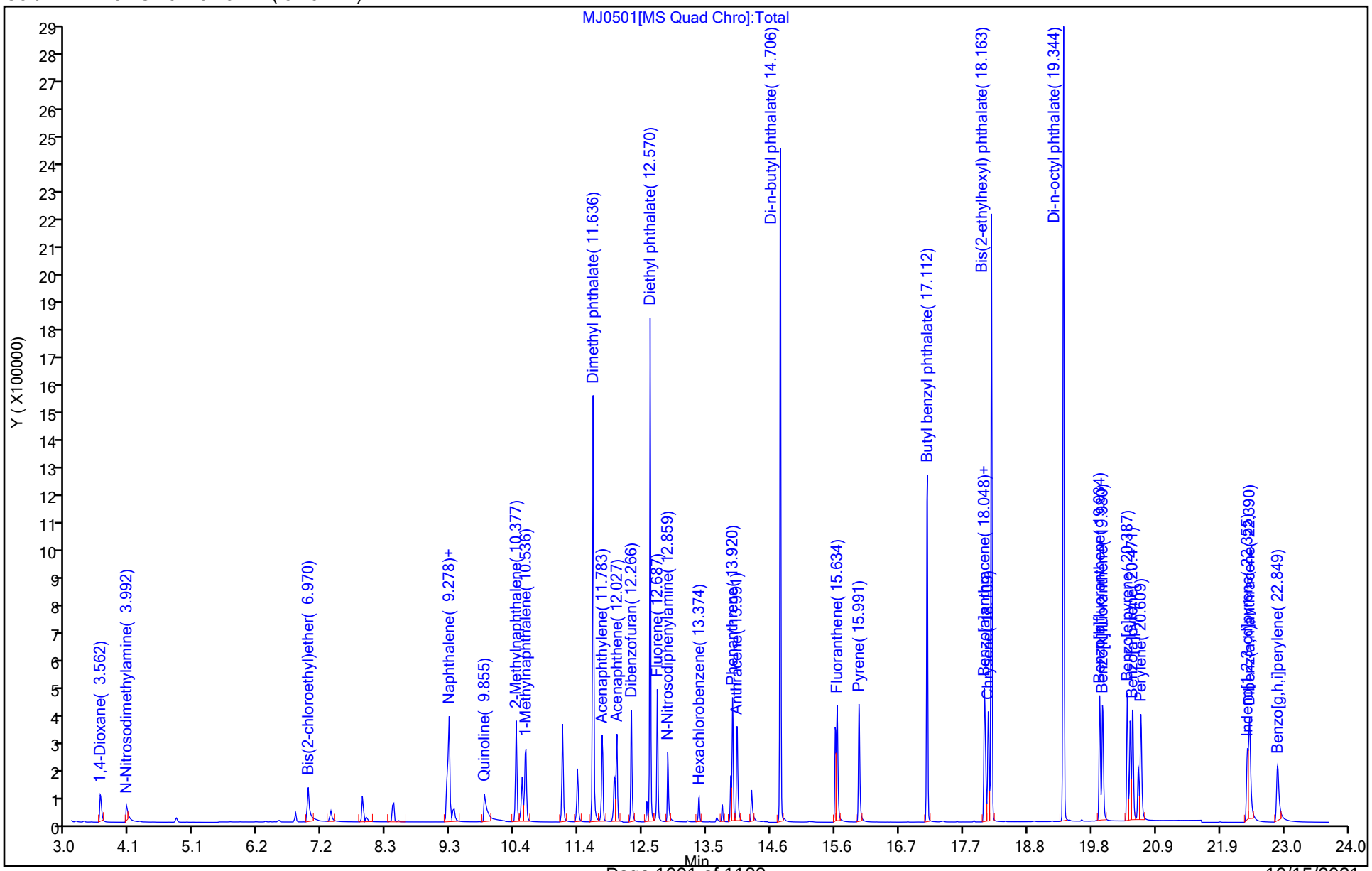
Report Date: 07-Oct-2021 09:25:25 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0501.D

Injection Date:	07-Oct-2021 08:55:41	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

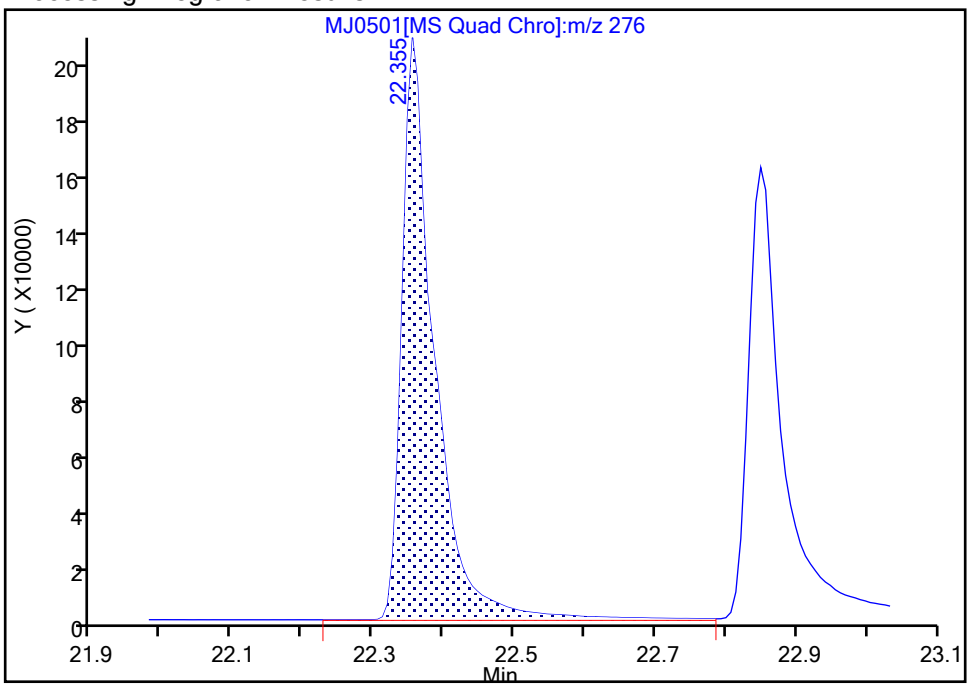
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0501.D				
Injection Date:	07-Oct-2021 08:55:41	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

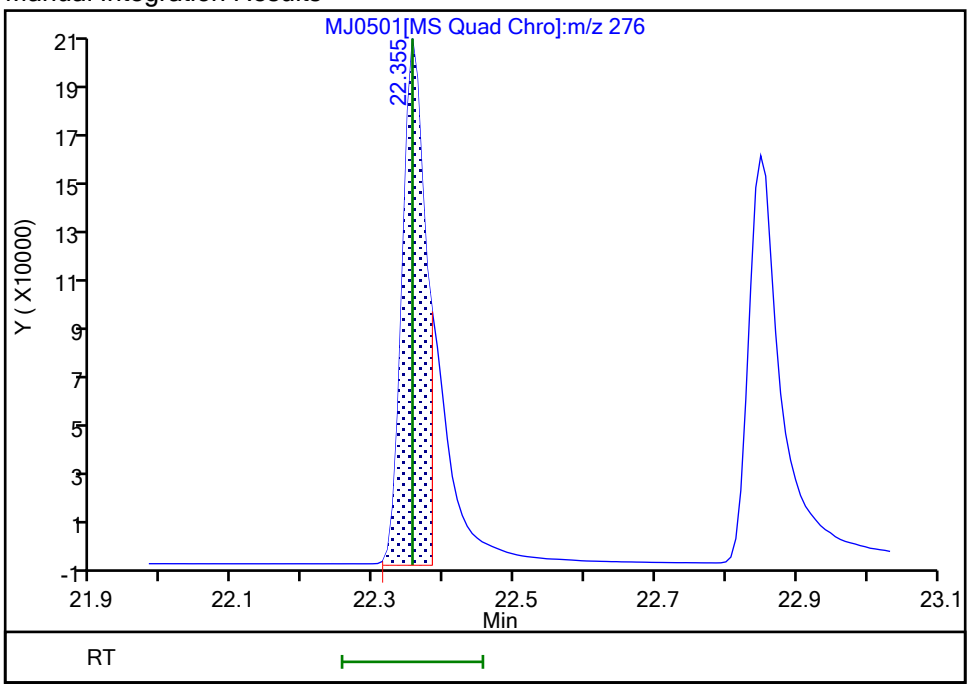
Processing Integration Results

RT: 22.35
Area: 658511
Amount: 0.665378
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 462446
Amount: 0.467269
Amount Units: ug/ml



Reviewer: gamblerj, 07-Oct-2021 09:24:37

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-180407/2 Calibration Date: 10/08/2021 06:11

Instrument ID: HP21585 Calib Start Date: 08/20/2021 06:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 08/20/2021 09:08

Lab File ID: MJ0561.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6693	0.7796		0.582	0.500	16.5	20.0
N-Nitrosodimethylamine	Ave	0.7791	0.8739		0.561	0.500	12.2	20.0
Bis(2-chloroethyl)ether	Ave	0.5187	0.4358		0.420	0.500	-16.0	20.0
Naphthalene	Ave	1.161	1.181		0.509	0.500	1.7	20.0
Quinoline	Ave	0.6554	0.6038		0.461	0.500	-7.9	20.0
2-Methylnaphthalene	Ave	0.7167	0.7314		0.510	0.500	2.1	20.0
1-Methylnaphthalene	Ave	0.6695	0.7168		0.535	0.500	7.1	20.0
Dimethylphthalate	Ave	1.356	1.269		2.34	2.50	-6.4	20.0
Acenaphthylene	Ave	2.094	1.911		0.456	0.500	-8.7	20.0
Acenaphthene	Ave	1.273	1.164		0.457	0.500	-8.5	20.0
Dibenzofuran	Ave	1.979	1.791		0.452	0.500	-9.5	20.0
Diethylphthalate	Ave	1.358	1.282		2.36	2.50	-5.5	20.0
Fluorene	Ave	1.496	1.407		0.470	0.500	-5.9	20.0
N-Nitrosodiphenylamine	Ave	0.5275	0.4821		0.457	0.500	-8.6	20.0
Hexachlorobenzene	Ave	0.2671	0.1982		0.371	0.500	-25.8*	20.0
Phenanthrene	Ave	1.296	1.178		0.455	0.500	-9.1	20.0
Anthracene	Ave	1.186	1.148		0.484	0.500	-3.2	20.0
Di-n-butyl phthalate	Ave	1.365	1.381		2.53	2.50	1.2	20.0
Fluoranthene	Ave	1.367	1.366		0.500	0.500	-0.0	20.0
Pyrene	Ave	1.660	1.439		0.433	0.500	-13.3	20.0
Butylbenzylphthalate	Ave	0.7383	0.6641		2.25	2.50	-10.0	20.0
Benzo[a]anthracene	Ave	1.437	1.276		0.444	0.500	-11.2	20.0
Chrysene	Ave	1.595	1.475		0.463	0.500	-7.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.024	0.9443		2.31	2.50	-7.8	20.0
Di-n-octyl phthalate	Ave	1.650	1.545		2.34	2.50	-6.4	20.0
Benzo[b]fluoranthene	Ave	1.419	1.300		0.458	0.500	-8.3	20.0
Benzo[k]fluoranthene	Ave	1.514	1.448		0.478	0.500	-4.4	20.0
Benzo[e]pyrene	Ave	1.382	1.308		0.473	0.500	-5.4	20.0
Benzo[a]pyrene	Ave	1.322	1.249		0.472	0.500	-5.6	20.0
Perylene	Ave	1.459	1.275		0.437	0.500	-12.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.061	1.069		0.504	0.500	0.7	20.0
Dibenz(a,h)anthracene	Ave	1.229	1.119		0.455	0.500	-9.0	20.0
Benzo[g,h,i]perylene	Ave	1.297	1.190		0.459	0.500	-8.2	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.4839	0.5301		0.548	0.500	9.6	20.0
Fluoranthene-d10 (Surr)	Ave	0.9902	1.078		0.544	0.500	8.8	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8893	0.9241		0.520	0.500	3.9	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0561.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Oct-2021 06:11:44 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0041033-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 06:57:28 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 06:57:21

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	3.540	3.540	0.000	98	91811	0.5000	0.5824	
2 N-Nitrosodimethylamine	74	3.963	3.963	0.000	100	102918	0.5000	0.5608	
3 Bis(2-chloroethyl)ether	93	6.949	6.949	0.000	96	191308	0.5000	0.4201	
* 4 1,4-Dichlorobenzene-d4	152	7.320	7.320	0.000	89	58887	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.216	9.216	0.000	92	219483	0.2500	0.2500	
6 Naphthalene	128	9.258	9.258	0.000	93	518634	0.5000	0.5087	
7 Quinoline	129	9.835	9.835	0.000	100	265052	0.5000	0.4606	
8 2-Methylnaphthalene	142	10.352	10.352	0.000	96	321073	0.5000	0.5103	
$ 9 1-Methylnaphthalene-d10	152	10.450	10.450	0.000	100	232712	0.5000	0.5478	
10 1-Methylnaphthalene	142	10.511	10.511	0.000	96	314632	0.5000	0.5353	
11 Dimethyl phthalate	163	11.624	11.624	0.000	98	1445941	2.50	2.34	
12 Acenaphthylene	152	11.771	11.771	0.000	100	435705	0.5000	0.4565	
* 13 Acenaphthene-d10	164	11.966	11.966	0.000	89	113979	0.2500	0.2500	
14 Acenaphthene	154	12.003	12.003	0.000	91	265432	0.5000	0.4575	
15 Dibenzofuran	168	12.242	12.242	0.000	100	408187	0.5000	0.4524	
16 Diethyl phthalate	149	12.554	12.554	0.000	99	1461587	2.50	2.36	
17 Fluorene	166	12.671	12.671	0.000	96	320708	0.5000	0.4703	
18 N-Nitrosodiphenylamine	169	12.843	12.843	0.000	98	187687	0.5000	0.4570	
19 Hexachlorobenzene	284	13.351	13.351	0.000	99	77145	0.5000	0.3709	
* 20 Phenanthrene-d10	188	13.874	13.874	0.000	96	194649	0.2500	0.2500	
21 Phenanthrene	178	13.905	13.905	0.000	100	458643	0.5000	0.4545	
22 Anthracene	178	13.975	13.975	0.000	100	446778	0.5000	0.4838	
23 Di-n-butyl phthalate	149	14.688	14.688	0.000	100	2688391	2.50	2.53	
$ 24 Fluoranthene-d10 (Surr)	212	15.584	15.584	0.000	100	419515	0.5000	0.5442	
25 Fluoranthene	202	15.615	15.615	0.000	100	531779	0.5000	0.4996	
26 Pyrene	202	15.973	15.973	0.000	100	561044	0.5000	0.4333	
27 Butyl benzyl phthalate	149	17.089	17.089	0.000	100	1294997	2.50	2.25	
28 Benzo[a]anthracene	228	18.025	18.025	0.000	100	497781	0.5000	0.4440	
* 29 Chrysene-d12	240	18.040	18.040	0.000	89	195005	0.2500	0.2500	
30 Chrysene	228	18.086	18.086	0.000	100	575437	0.5000	0.4626	

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	18.140	18.140	0.000	99	1841413	2.50	2.31	
32 Di-n-octyl phthalate	149	19.321	19.321	0.000	100	3160694	2.50	2.34	
33 Benzo[b]fluoranthene	252	19.911	19.911	0.000	100	532020	0.5000	0.4583	
34 Benzo[k]fluoranthene	252	19.957	19.957	0.000	100	592384	0.5000	0.4782	
35 Benzo[e]pyrene	252	20.364	20.364	0.000	100	535072	0.5000	0.4731	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.410	20.410	0.000	99	378141	0.5000	0.5196	
37 Benzo[a]pyrene	252	20.456	20.456	0.000	100	510963	0.5000	0.4722	
* 38 Perylene-d12	264	20.548	20.548	0.000	99	204596	0.2500	0.2500	
39 Perylene	252	20.586	20.586	0.000	100	521762	0.5000	0.4370	
40 Indeno[1,2,3-cd]pyrene	276	22.320	22.320	0.000	98	437433	0.5000	0.5036	M
41 Dibenz(a,h)anthracene	278	22.362	22.362	0.000	100	457723	0.5000	0.4552	
42 Benzo[g,h,i]perylene	276	22.814	22.814	0.000	100	487134	0.5000	0.4589	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

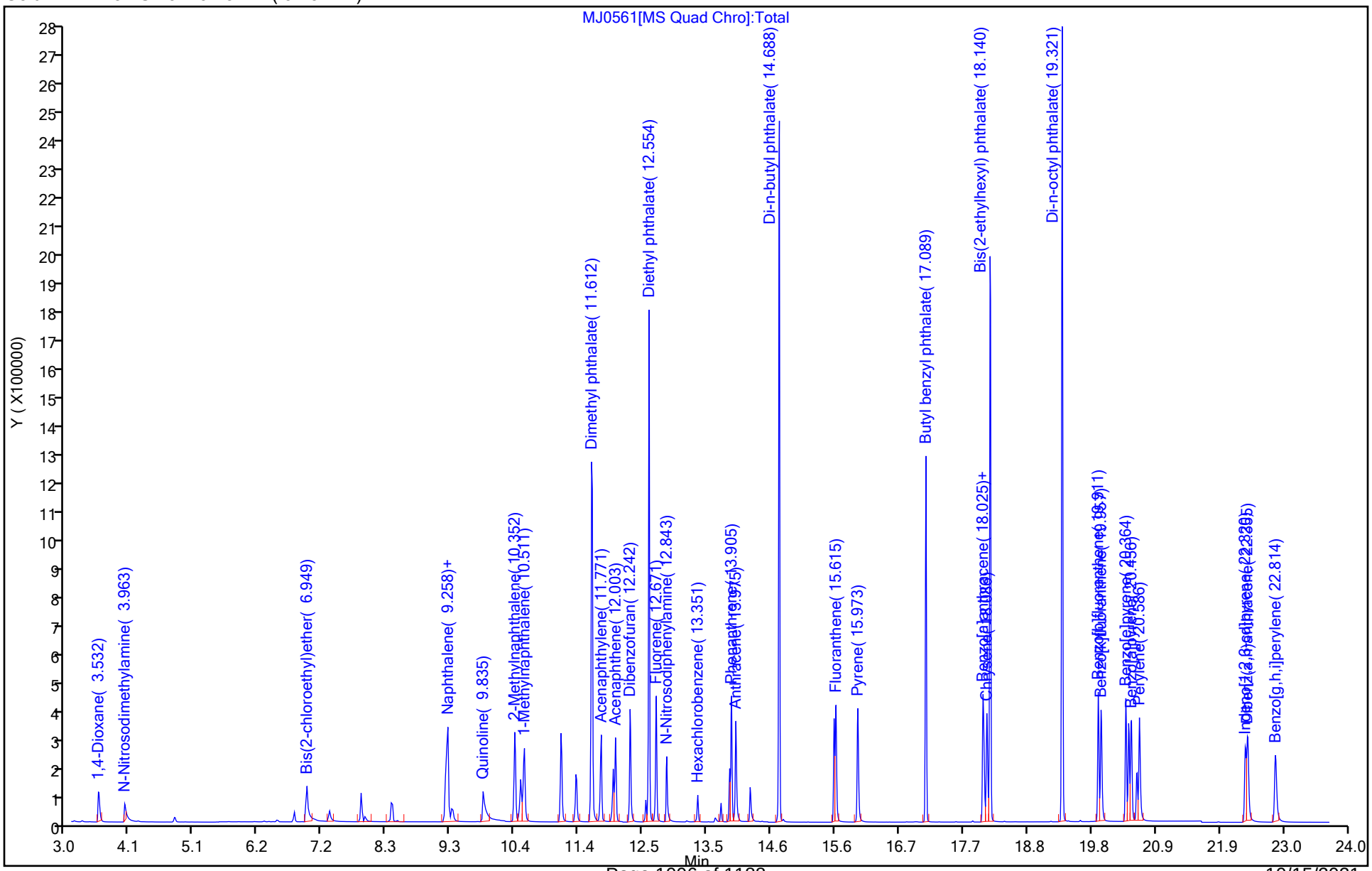
Report Date: 08-Oct-2021 06:57:28 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0561.D

Injection Date:	08-Oct-2021 06:11:44	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

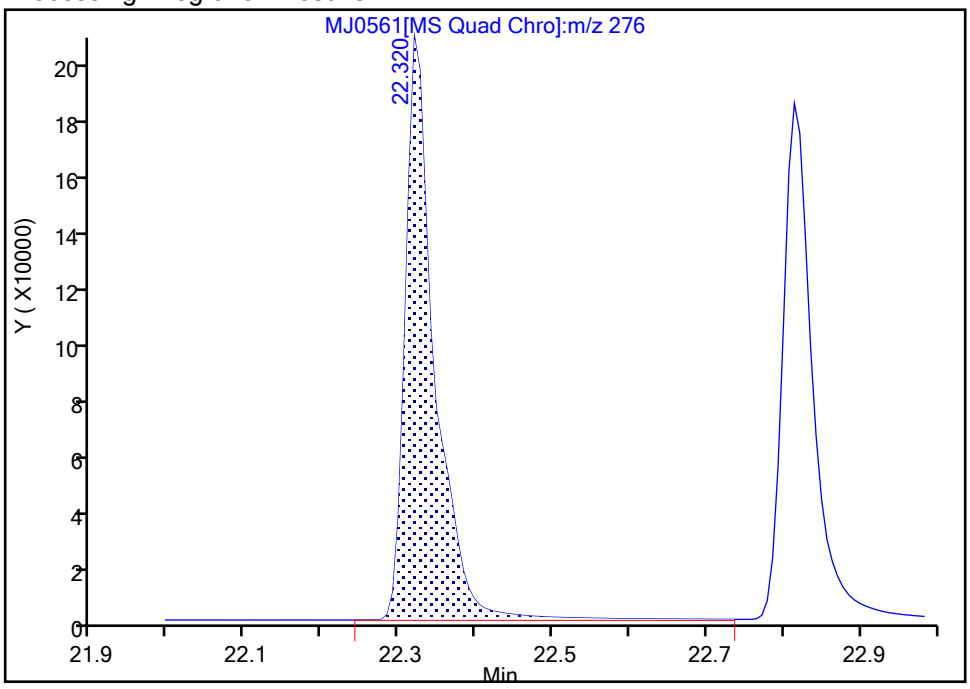
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0561.D				
Injection Date:	08-Oct-2021 06:11:44	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

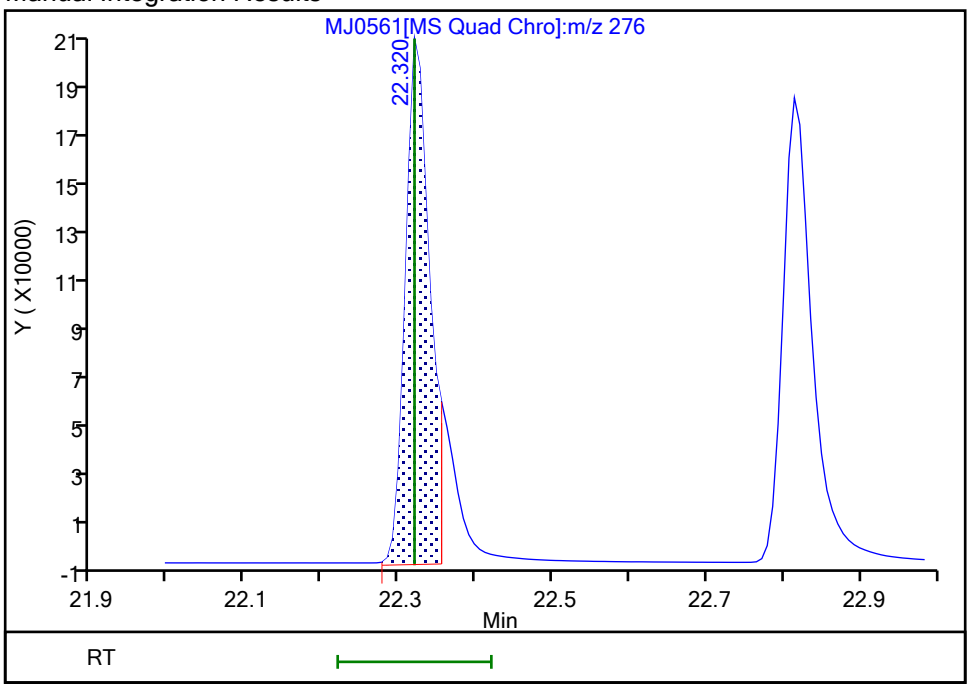
Processing Integration Results

RT: 22.32
Area: 536003
Amount: 0.617086
Amount Units: ug/ml



Manual Integration Results

RT: 22.32
Area: 437433
Amount: 0.503605
Amount Units: ug/ml



Reviewer: gamblerj, 08-Oct-2021 06:49:36

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-180937/2 Calibration Date: 10/09/2021 21:15

Instrument ID: HP21585 Calib Start Date: 08/20/2021 06:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 08/20/2021 09:08

Lab File ID: MJ0601a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6693	0.7322		0.547	0.500	9.4	20.0
N-Nitrosodimethylamine	Ave	0.7791	0.7921		0.508	0.500	1.7	20.0
Bis(2-chloroethyl)ether	Ave	0.5187	0.4526		0.436	0.500	-12.7	20.0
Naphthalene	Ave	1.161	1.154		0.497	0.500	-0.6	20.0
Quinoline	Ave	0.6554	0.5809		0.443	0.500	-11.4	20.0
2-Methylnaphthalene	Ave	0.7167	0.7195		0.502	0.500	0.4	20.0
1-Methylnaphthalene	Ave	0.6695	0.6995		0.522	0.500	4.5	20.0
Dimethylphthalate	Ave	1.356	1.258		2.32	2.50	-7.2	20.0
Acenaphthylene	Ave	2.094	1.896		0.453	0.500	-9.4	20.0
Acenaphthene	Ave	1.273	1.165		0.458	0.500	-8.4	20.0
Dibenzofuran	Ave	1.979	1.798		0.454	0.500	-9.1	20.0
Diethylphthalate	Ave	1.358	1.283		2.36	2.50	-5.5	20.0
Fluorene	Ave	1.496	1.411		0.472	0.500	-5.7	20.0
N-Nitrosodiphenylamine	Ave	0.5275	0.4688		0.444	0.500	-11.1	20.0
Hexachlorobenzene	Ave	0.2671	0.1964		0.368	0.500	-26.5*	20.0
Phenanthrene	Ave	1.296	1.175		0.453	0.500	-9.3	20.0
Anthracene	Ave	1.186	1.147		0.483	0.500	-3.3	20.0
Di-n-butyl phthalate	Ave	1.365	1.300		2.38	2.50	-4.7	20.0
Fluoranthene	Ave	1.367	1.300		0.475	0.500	-4.9	20.0
Pyrene	Ave	1.660	1.528		0.460	0.500	-7.9	20.0
Butylbenzylphthalate	Ave	0.7383	0.6589		2.23	2.50	-10.7	20.0
Benzo[a]anthracene	Ave	1.437	1.256		0.437	0.500	-12.6	20.0
Chrysene	Ave	1.595	1.511		0.474	0.500	-5.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.024	0.9421		2.30	2.50	-8.0	20.0
Di-n-octyl phthalate	Ave	1.650	1.510		2.29	2.50	-8.5	20.0
Benzo[b]fluoranthene	Ave	1.419	1.262		0.445	0.500	-11.1	20.0
Benzo[k]fluoranthene	Ave	1.514	1.471		0.486	0.500	-2.8	20.0
Benzo[e]pyrene	Ave	1.382	1.292		0.468	0.500	-6.5	20.0
Benzo[a]pyrene	Ave	1.322	1.252		0.474	0.500	-5.3	20.0
Perylene	Ave	1.459	1.325		0.454	0.500	-9.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.061	1.098		0.517	0.500	3.4	20.0
Dibenz(a,h)anthracene	Ave	1.229	1.327		0.540	0.500	8.0	20.0
Benzo[g,h,i]perylene	Ave	1.297	1.353		0.521	0.500	4.3	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.4839	0.5246		0.542	0.500	8.4	20.0
Fluoranthene-d10 (Surr)	Ave	0.9902	1.015		0.512	0.500	2.5	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8893	0.9129		0.513	0.500	2.7	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0601a.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Oct-2021 21:15:24 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0041033-002, 4
Operator ID: whs02991 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:00:22 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 22:04:41

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	3.577	3.577	0.000	97	89188	0.5000	0.5470	
2 N-Nitrosodimethylamine	74	4.007	4.007	0.000	99	96475	0.5000	0.5083	
3 Bis(2-chloroethyl)ether	93	6.970	6.970	0.000	87	194460	0.5000	0.4363	
* 4 1,4-Dichlorobenzene-d4	152	7.341	7.341	0.000	96	60901	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	91	214813	0.2500	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	93	495836	0.5000	0.4969	
7 Quinoline	129	9.855	9.855	0.000	100	249576	0.5000	0.4432	
8 2-Methylnaphthalene	142	10.377	10.377	0.000	95	309131	0.5000	0.5020	
$ 9 1-Methylnaphthalene-d10	152	10.474	10.474	0.000	100	225395	0.5000	0.5421	
10 1-Methylnaphthalene	142	10.523	10.523	0.000	96	300504	0.5000	0.5224	
11 Dimethyl phthalate	163	11.636	11.636	0.000	88	1392700	2.50	2.32	
12 Acenaphthylene	152	11.783	11.783	0.000	100	419757	0.5000	0.4529	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	93	110677	0.2500	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	91	257919	0.5000	0.4578	
15 Dibenzofuran	168	12.258	12.258	0.000	100	398092	0.5000	0.4544	
16 Diethyl phthalate	149	12.562	12.562	0.000	99	1420116	2.50	2.36	
17 Fluorene	166	12.679	12.679	0.000	96	312330	0.5000	0.4717	
18 N-Nitrosodiphenylamine	169	12.851	12.851	0.000	98	176040	0.5000	0.4443	
19 Hexachlorobenzene	284	13.366	13.366	0.000	99	73760	0.5000	0.3677	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	96	187774	0.2500	0.2500	
21 Phenanthrene	178	13.912	13.912	0.000	100	441399	0.5000	0.4534	
22 Anthracene	178	13.983	13.983	0.000	100	430571	0.5000	0.4833	
23 Di-n-butyl phthalate	149	14.694	14.694	0.000	100	2441822	2.50	2.38	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.596	0.000	100	381096	0.5000	0.5124	
25 Fluoranthene	202	15.621	15.621	0.000	100	488234	0.5000	0.4755	
26 Pyrene	202	15.985	15.985	0.000	100	507582	0.5000	0.4603	
27 Butyl benzyl phthalate	149	17.096	17.096	0.000	100	1094170	2.50	2.23	
28 Benzo[a]anthracene	228	18.032	18.032	0.000	100	417132	0.5000	0.4370	
* 29 Chrysene-d12	240	18.047	18.047	0.000	100	166051	0.2500	0.2500	
30 Chrysene	228	18.093	18.093	0.000	100	501722	0.5000	0.4737	

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	18.147	18.147	0.000	99	1564309	2.50	2.30	
32 Di-n-octyl phthalate	149	19.328	19.328	0.000	100	2722963	2.50	2.29	
33 Benzo[b]fluoranthene	252	19.919	19.919	0.000	100	455040	0.5000	0.4447	
34 Benzo[k]fluoranthene	252	19.965	19.965	0.000	100	530324	0.5000	0.4858	
35 Benzo[e]pyrene	252	20.371	20.371	0.000	100	466015	0.5000	0.4676	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.425	0.000	99	329201	0.5000	0.5133	
37 Benzo[a]pyrene	252	20.463	20.463	0.000	100	451633	0.5000	0.4736	
* 38 Perylene-d12	264	20.555	20.555	0.000	100	180307	0.2500	0.2500	
39 Perylene	252	20.594	20.594	0.000	100	477713	0.5000	0.4540	
40 Indeno[1,2,3-cd]pyrene	276	22.334	22.334	0.000	98	395898	0.5000	0.5172	M
41 Dibenz(a,h)anthracene	278	22.369	22.369	0.000	99	478364	0.5000	0.5398	
42 Benzo[g,h,i]perylene	276	22.821	22.821	0.000	100	487812	0.5000	0.5215	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

Report Date: 09-Oct-2021 23:00:23 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0601a.D

Injection Date: 09-Oct-2021 21:15:24 Instrument ID: HP21585 Operator ID: whs02991

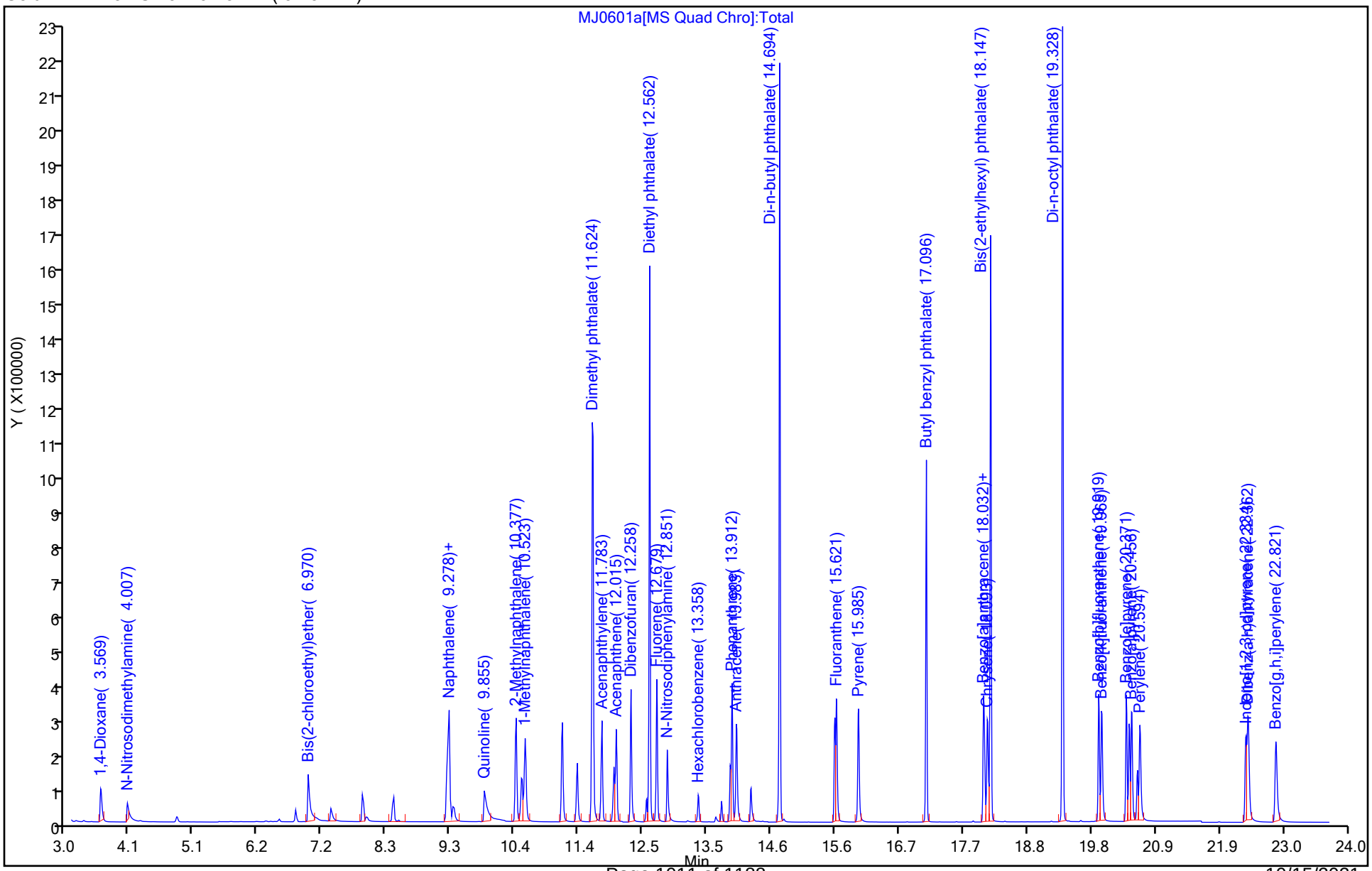
Lims ID: CCVIS Worklist Smp#: 2

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

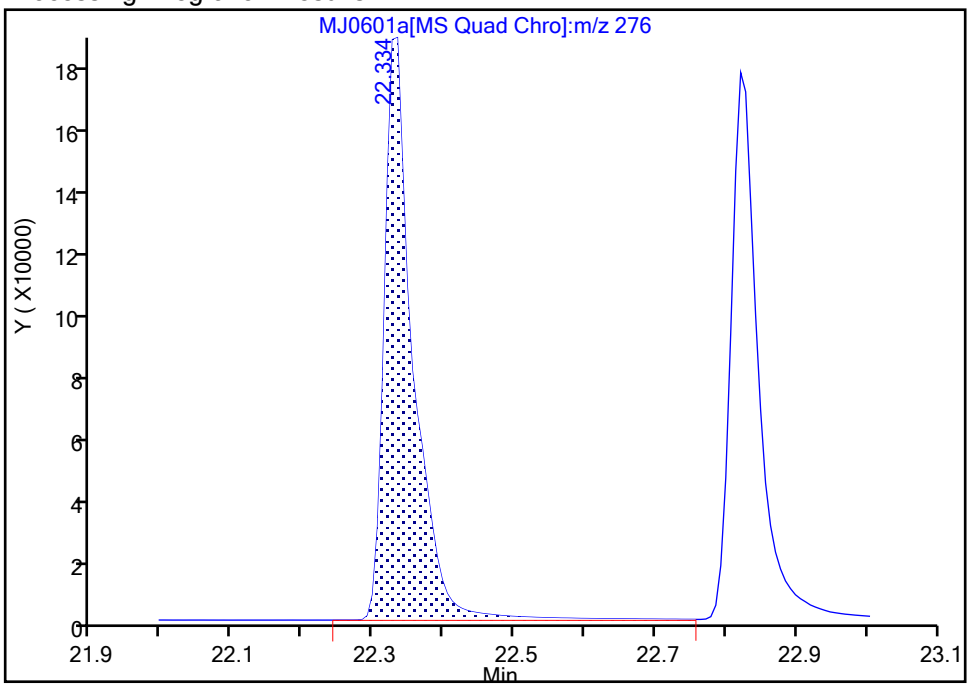
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0601a.D				
Injection Date:	09-Oct-2021 21:15:24	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	whs02991	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

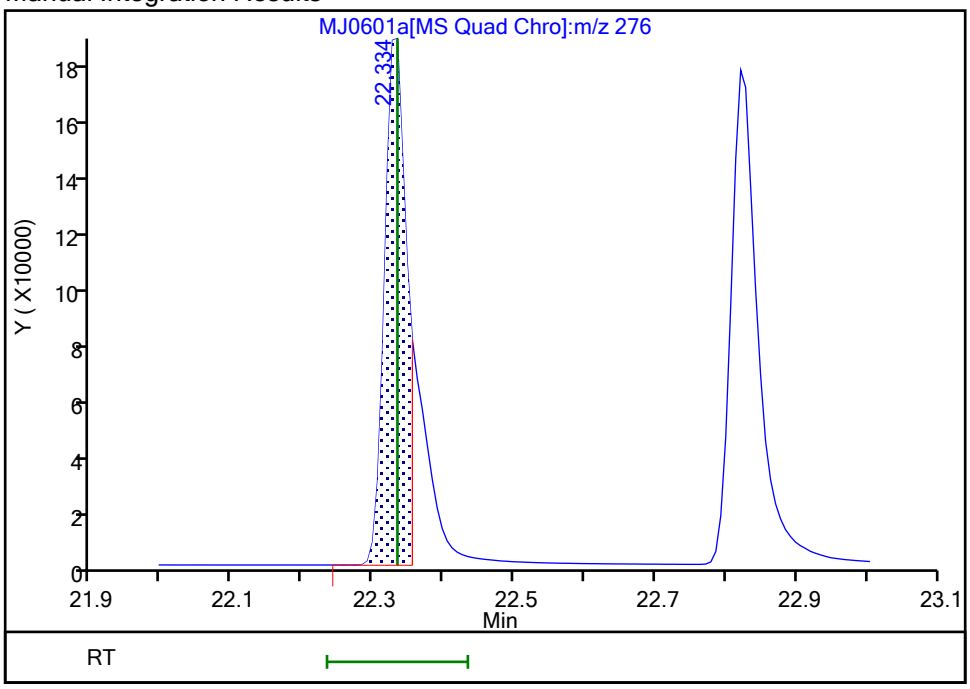
Processing Integration Results

RT: 22.33
Area: 538303
Amount: 0.703218
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 395898
Amount: 0.517186
Amount Units: ug/ml



Reviewer: saadehw, 09-Oct-2021 22:04:37

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.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-181586/2 Calibration Date: 10/12/2021 08:28

Instrument ID: HP21585 Calib Start Date: 08/20/2021 06:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 08/20/2021 09:08

Lab File ID: MJ0711.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6693	0.7496		0.560	0.500	12.0	20.0
N-Nitrosodimethylamine	Ave	0.7791	0.8003		0.514	0.500	2.7	20.0
Bis(2-chloroethyl)ether	Ave	0.5187	0.4800		0.463	0.500	-7.5	20.0
Naphthalene	Ave	1.161	1.185		0.510	0.500	2.0	20.0
Quinoline	Ave	0.6554	0.5369		0.410	0.500	-18.1	20.0
2-Methylnaphthalene	Ave	0.7167	0.7336		0.512	0.500	2.4	20.0
1-Methylnaphthalene	Ave	0.6695	0.7176		0.536	0.500	7.2	20.0
Dimethylphthalate	Ave	1.356	1.267		2.34	2.50	-6.5	20.0
Acenaphthylene	Ave	2.094	1.897		0.453	0.500	-9.4	20.0
Acenaphthene	Ave	1.273	1.167		0.459	0.500	-8.3	20.0
Dibenzofuran	Ave	1.979	1.796		0.454	0.500	-9.3	20.0
Diethylphthalate	Ave	1.358	1.294		2.38	2.50	-4.7	20.0
Fluorene	Ave	1.496	1.413		0.473	0.500	-5.5	20.0
N-Nitrosodiphenylamine	Ave	0.5275	0.4809		0.456	0.500	-8.8	20.0
Hexachlorobenzene	Ave	0.2671	0.1909		0.357	0.500	-28.5*	20.0
Phenanthrene	Ave	1.296	1.179		0.455	0.500	-9.1	20.0
Anthracene	Ave	1.186	1.152		0.486	0.500	-2.9	20.0
Di-n-butyl phthalate	Ave	1.365	1.339		2.45	2.50	-1.9	20.0
Fluoranthene	Ave	1.367	1.343		0.491	0.500	-1.8	20.0
Pyrene	Ave	1.660	1.458		0.439	0.500	-12.2	20.0
Butylbenzylphthalate	Ave	0.7383	0.6544		2.22	2.50	-11.4	20.0
Benzo[a]anthracene	Ave	1.437	1.251		0.435	0.500	-13.0	20.0
Chrysene	Ave	1.595	1.507		0.473	0.500	-5.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.024	0.9268		2.26	2.50	-9.5	20.0
Di-n-octyl phthalate	Ave	1.650	1.492		2.26	2.50	-9.6	20.0
Benzo[b]fluoranthene	Ave	1.419	1.310		0.462	0.500	-7.7	20.0
Benzo[k]fluoranthene	Ave	1.514	1.394		0.460	0.500	-7.9	20.0
Benzo[e]pyrene	Ave	1.382	1.271		0.460	0.500	-8.1	20.0
Benzo[a]pyrene	Ave	1.322	1.240		0.469	0.500	-6.2	20.0
Perylene	Ave	1.459	1.307		0.448	0.500	-10.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.061	1.061		0.500	0.500	0.0	20.0
Dibenz(a,h)anthracene	Ave	1.229	1.201		0.489	0.500	-2.3	20.0
Benzo[g,h,i]perylene	Ave	1.297	1.245		0.480	0.500	-4.0	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.4839	0.5373		0.555	0.500	11.0	20.0
Fluoranthene-d10 (Surr)	Ave	0.9902	1.046		0.528	0.500	5.6	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8893	0.8994		0.506	0.500	1.1	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0711.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Oct-2021 08:28:45 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0041301-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 12-Oct-2021 09:03:03 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: gamblerj Date: 12-Oct-2021 09:02:57

	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	3.562	3.562	0.000	97	102639	0.5000	0.5600	
	2 N-Nitrosodimethylamine	74	4.000	4.000	0.000	99	109578	0.5000	0.5136	
	3 Bis(2-chloroethyl)ether	93	6.970	6.970	0.000	86	240016	0.5000	0.4627	
*	4 1,4-Dichlorobenzene-d4	152	7.341	7.341	0.000	94	68458	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.237	9.237	0.000	91	250007	0.2500	0.2500	
	6 Naphthalene	128	9.278	9.278	0.000	93	592301	0.5000	0.5100	
	7 Quinoline	129	9.876	9.876	0.000	100	268437	0.5000	0.4095	
	8 2-Methylnaphthalene	142	10.377	10.377	0.000	96	366834	0.5000	0.5118	
$	9 1-Methylnaphthalene-d10	152	10.475	10.475	0.000	100	268682	0.5000	0.5552	
	10 1-Methylnaphthalene	142	10.524	10.524	0.000	97	358816	0.5000	0.5359	
	11 Dimethyl phthalate	163	11.636	11.636	0.000	81	1652911	2.50	2.34	
	12 Acenaphthylene	152	11.783	11.783	0.000	100	494988	0.5000	0.4531	
*	13 Acenaphthene-d10	164	11.978	11.978	0.000	93	130452	0.2500	0.2500	
	14 Acenaphthene	154	12.015	12.015	0.000	91	304554	0.5000	0.4586	
	15 Dibenzofuran	168	12.258	12.258	0.000	100	468487	0.5000	0.4537	
	16 Diethyl phthalate	149	12.562	12.562	0.000	99	1688352	2.50	2.38	
	17 Fluorene	166	12.679	12.679	0.000	96	368785	0.5000	0.4726	
	18 N-Nitrosodiphenylamine	169	12.851	12.851	0.000	98	214728	0.5000	0.4558	
	19 Hexachlorobenzene	284	13.366	13.366	0.000	100	85221	0.5000	0.3573	
*	20 Phenanthrene-d10	188	13.881	13.881	0.000	95	223244	0.2500	0.2500	
	21 Phenanthrene	178	13.913	13.913	0.000	100	526230	0.5000	0.4547	
	22 Anthracene	178	13.991	13.991	0.000	100	514386	0.5000	0.4857	
	23 Di-n-butyl phthalate	149	14.694	14.694	0.000	100	2989322	2.50	2.45	
$	24 Fluoranthene-d10 (Surr)	212	15.597	15.597	0.000	100	467027	0.5000	0.5282	
	25 Fluoranthene	202	15.628	15.628	0.000	100	599506	0.5000	0.4911	
	26 Pyrene	202	15.985	15.985	0.000	100	623542	0.5000	0.4392	
	27 Butyl benzyl phthalate	149	17.097	17.097	0.000	100	1399113	2.50	2.22	
	28 Benzo[a]anthracene	228	18.032	18.032	0.000	100	534869	0.5000	0.4352	
*	29 Chrysene-d12	240	18.055	18.055	0.000	79	213785	0.2500	0.2500	
	30 Chrysene	228	18.101	18.101	0.000	100	644426	0.5000	0.4726	

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	18.147	18.147	0.000	99	1981260	2.50	2.26	
32 Di-n-octyl phthalate	149	19.328	19.328	0.000	100	3400068	2.50	2.26	
33 Benzo[b]fluoranthene	252	19.919	19.919	0.000	100	596978	0.5000	0.4616	
34 Benzo[k]fluoranthene	252	19.973	19.973	0.000	100	635285	0.5000	0.4604	
35 Benzo[e]pyrene	252	20.372	20.372	0.000	100	579166	0.5000	0.4597	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.425	0.000	99	409983	0.5000	0.5057	
37 Benzo[a]pyrene	252	20.464	20.464	0.000	100	565314	0.5000	0.4690	
* 38 Perylene-d12	264	20.556	20.556	0.000	99	227922	0.2500	0.2500	
39 Perylene	252	20.594	20.594	0.000	100	595620	0.5000	0.4478	
40 Indeno[1,2,3-cd]pyrene	276	22.334	22.334	0.000	98	483829	0.5000	0.5000	M
41 Dibenz(a,h)anthracene	278	22.376	22.376	0.000	98	547391	0.5000	0.4886	
42 Benzo[g,h,i]perylene	276	22.835	22.835	0.000	100	567633	0.5000	0.4800	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

Report Date: 12-Oct-2021 09:03:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0711.D

Injection Date: 12-Oct-2021 08:28:45 Instrument ID: HP21585 Operator ID: jmg00346

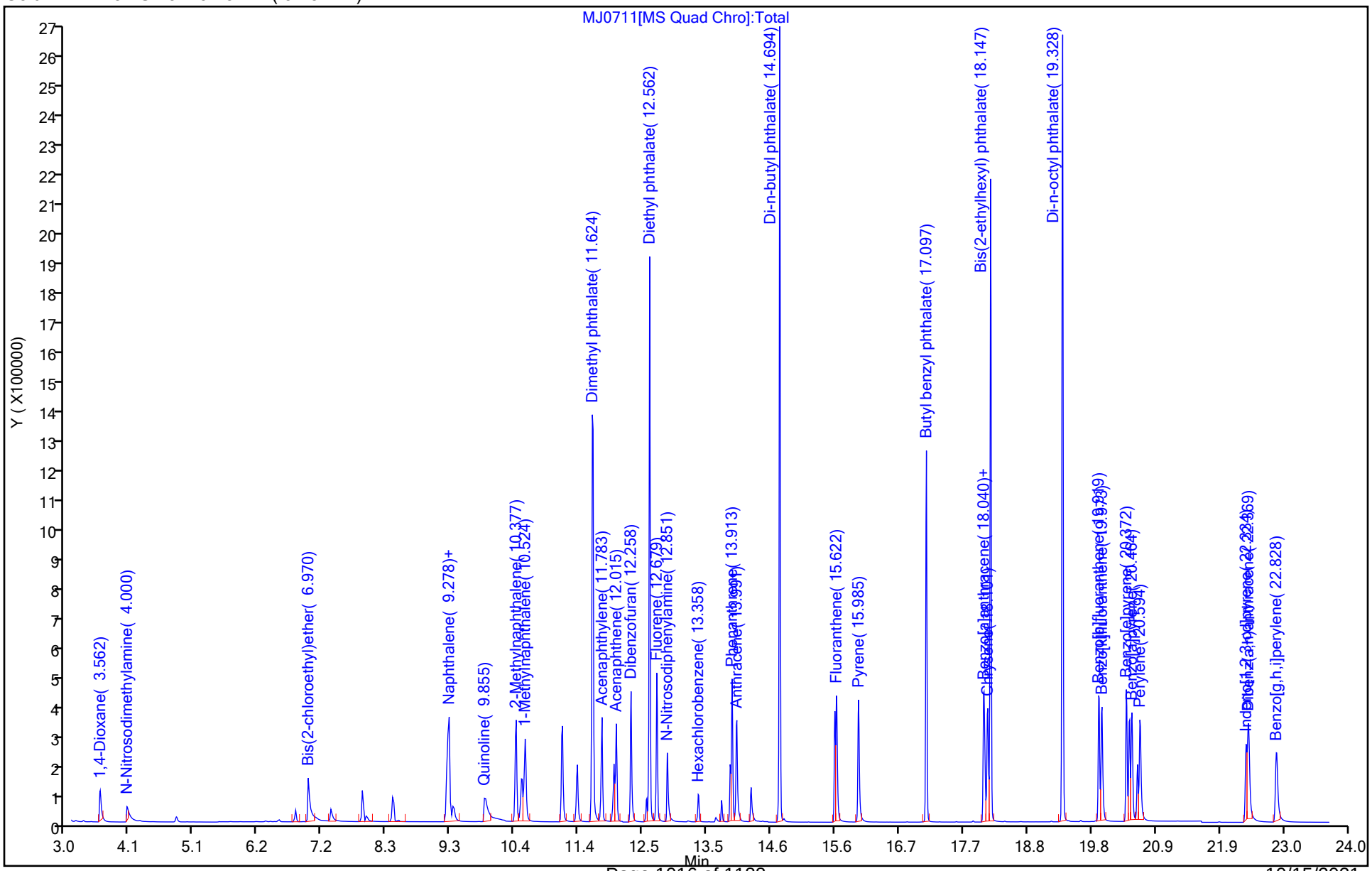
Lims ID: CCVIS Worklist Smp#: 2

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

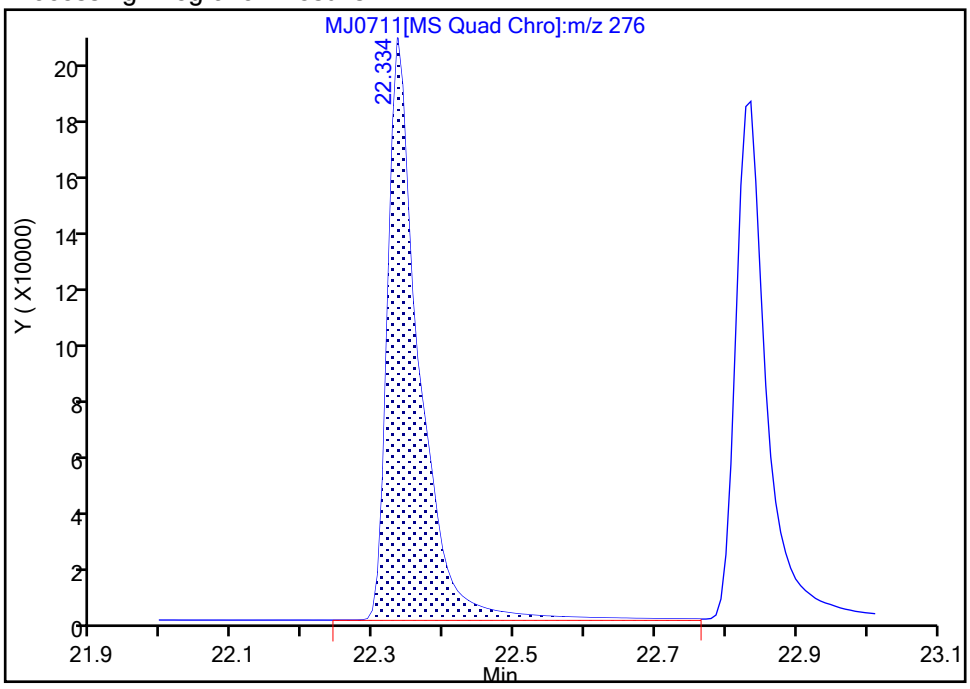
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Injection Date:	12-Oct-2021 08:28:45	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

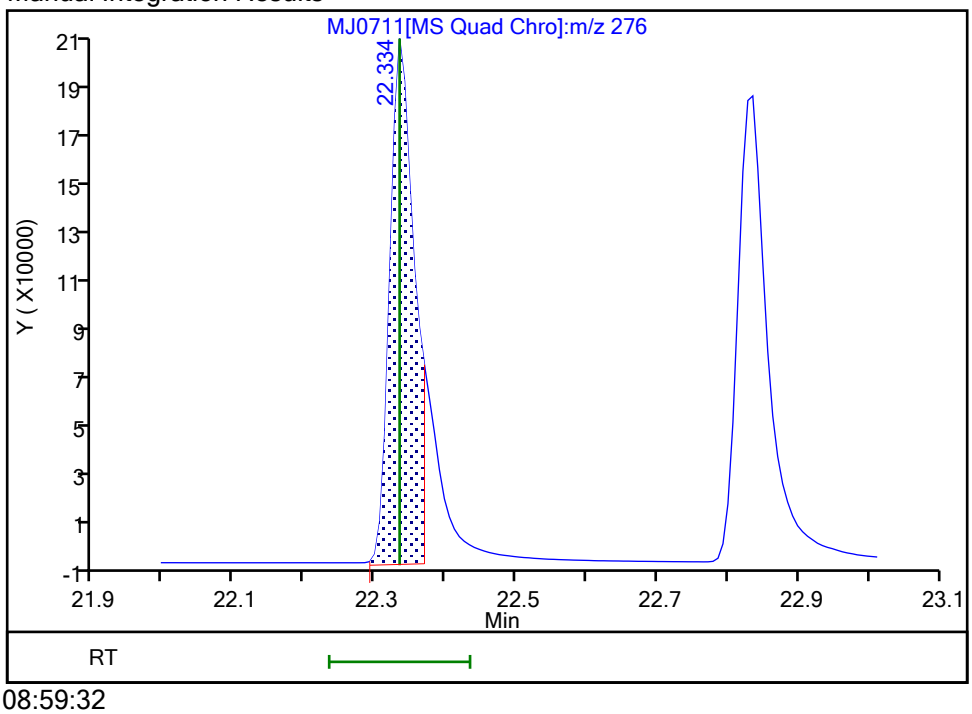
Processing Integration Results

RT: 22.33
Area: 626740
Amount: 0.647705
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 483829
Amount: 0.500013
Amount Units: ug/ml



Reviewer: gamblerj, 12-Oct-2021 08:59:32

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.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-180399/9 Calibration Date: 10/08/2021 07:57

Instrument ID: HP23263 Calib Start Date: 10/08/2021 04:21

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/08/2021 06:57

Lab File ID: NJ0608.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5092	0.5065		0.249	0.250	-0.5	30.0
Bis(2-chloroethyl)ether	Ave	0.3236	0.3790		0.293	0.250	17.1	30.0
Naphthalene	Ave	1.105	1.040		0.235	0.250	-5.9	30.0
2-Methylnaphthalene	Ave	0.7512	0.6851		0.228	0.250	-8.8	30.0
1-Methylnaphthalene	Ave	0.6886	0.6620		0.240	0.250	-3.9	30.0
Dimethylphthalate	Ave	1.454	1.581		0.272	0.250	8.8	30.0
Acenaphthylene	Ave	2.169	2.135		0.246	0.250	-1.5	30.0
Acenaphthene	Ave	1.183	1.163		0.246	0.250	-1.7	30.0
Dibenzofuran	Ave	2.039	1.902		0.233	0.250	-6.7	30.0
Diethylphthalate	Ave	1.536	1.592		0.259	0.250	3.7	30.0
Fluorene	Ave	1.526	1.457		0.239	0.250	-4.6	30.0
N-Nitrosodiphenylamine	Ave	0.5158	0.6419		0.264	0.213	24.4	30.0
Hexachlorobenzene	Ave	0.3367	0.3097		0.230	0.250	-8.0	30.0
Phenanthrene	Ave	1.272	1.180		0.232	0.250	-7.2	30.0
Anthracene	Ave	1.152	1.146		0.249	0.250	-0.5	30.0
Di-n-butyl phthalate	Ave	1.310	1.328		0.253	0.250	1.4	30.0
Fluoranthene	Ave	1.351	1.293		0.239	0.250	-4.3	30.0
Pyrene	Ave	1.793	1.712		0.239	0.250	-4.5	30.0
Butylbenzylphthalate	Ave	0.7688	0.7820		0.254	0.250	1.7	30.0
Benzo[a]anthracene	Ave	1.515	1.501		0.248	0.250	-0.9	30.0
Chrysene	Ave	1.465	1.464		0.250	0.250	-0.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	1.129	1.073		0.237	0.250	-5.0	30.0
Di-n-octyl phthalate	Ave	1.928	1.841		0.239	0.250	-4.5	30.0
Benzo[b]fluoranthene	Ave	1.511	1.521		0.252	0.250	0.7	30.0
Benzo[k]fluoranthene	Ave	1.578	1.502		0.238	0.250	-4.8	30.0
Benzo[a]pyrene	Ave	1.382	1.382		0.250	0.250	-0.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.9676	0.9526		0.246	0.250	-1.6	30.0
Dibenz(a,h)anthracene	Ave	0.9782	0.9077		0.232	0.250	-7.2	30.0
Benzo[g,h,i]perylene	Ave	1.146	1.084		0.236	0.250	-5.4	30.0
N-Nitrosodimethylamine	Ave	0.5531	0.7610			0.250	37.6*	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0608.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Oct-2021 07:57:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0041032-009
Operator ID: jmg00346 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:51:35 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:11:56

	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	2.621	2.621	0.000	92	34679	0.2500	0.2487	
	3 Bis(2-chloroethyl)ether	93	5.930	5.930	0.000	90	80625	0.2500	0.2928	
*	4 1,4-Dichlorobenzene-d4	152	6.305	6.305	0.000	100	68466	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.304	8.304	0.000	100	212737	0.2500	0.2500	
	6 Naphthalene	128	8.342	8.342	0.000	100	221337	0.2500	0.2353	
	8 2-Methylnaphthalene	142	9.467	9.467	0.000	96	145738	0.2500	0.2280	
	10 1-Methylnaphthalene	142	9.627	9.627	0.000	98	140839	0.2500	0.2404	
	11 Dimethyl phthalate	163	10.789	10.789	0.000	92	177651	0.2500	0.2720	
	12 Acenaphthylene	152	10.929	10.929	0.000	97	239876	0.2500	0.2462	
*	13 Acenaphthene-d10	164	11.160	11.160	0.000	91	112334	0.2500	0.2500	
	14 Acenaphthene	154	11.210	11.210	0.000	94	130635	0.2500	0.2457	
	15 Dibenzofuran	168	11.472	11.472	0.000	99	213632	0.2500	0.2332	
	16 Diethyl phthalate	149	11.843	11.843	0.000	99	178840	0.2500	0.2591	
	17 Fluorene	166	11.928	11.928	0.000	97	163658	0.2500	0.2386	
	18 N-Nitrosodiphenylamine	169	12.098	12.098	0.000	94	115044	0.2125	0.2644	
	19 Hexachlorobenzene	284	12.592	12.592	0.000	97	65310	0.2500	0.2299	
*	20 Phenanthrene-d10	188	13.086	13.086	0.000	100	210862	0.2500	0.2500	
	21 Phenanthrene	178	13.109	13.109	0.000	99	248878	0.2500	0.2319	
	22 Anthracene	178	13.179	13.179	0.000	99	241722	0.2500	0.2488	
	23 Di-n-butyl phthalate	149	13.923	13.923	0.000	100	280033	0.2500	0.2534	
	25 Fluoranthene	202	14.763	14.763	0.000	95	272631	0.2500	0.2393	
	26 Pyrene	202	15.108	15.108	0.000	96	272725	0.2500	0.2387	
	27 Butyl benzyl phthalate	149	16.261	16.261	0.000	100	124569	0.2500	0.2543	
	28 Benzo[a]anthracene	228	17.128	17.128	0.000	100	239119	0.2500	0.2476	
*	29 Chrysene-d12	240	17.143	17.143	0.000	97	159296	0.2500	0.2500	
	30 Chrysene	228	17.189	17.189	0.000	100	233192	0.2500	0.2497	
	31 Bis(2-ethylhexyl) phthalate	149	17.350	17.350	0.000	99	170847	0.2500	0.2374	
	32 Di-n-octyl phthalate	149	18.516	18.516	0.000	100	280415	0.2500	0.2387	
	33 Benzo[b]fluoranthene	252	18.999	18.999	0.000	100	231638	0.2500	0.2516	
	34 Benzo[k]fluoranthene	252	19.045	19.045	0.000	100	228804	0.2500	0.2380	

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	19.528	19.528	0.000	100	210495	0.2500	0.2500	
* 38 Perylene-d12	264	19.620	19.620	0.000	95	152298	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.259	21.259	0.000	96	145082	0.2500	0.2461	
41 Dibenz(a,h)anthracene	278	21.308	21.308	0.000	97	138236	0.2500	0.2320	M
42 Benzo[g,h,i]perylene	276	21.676	21.676	0.000	98	165058	0.2500	0.2365	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00026 Amount Added: 1.00 Units: mL

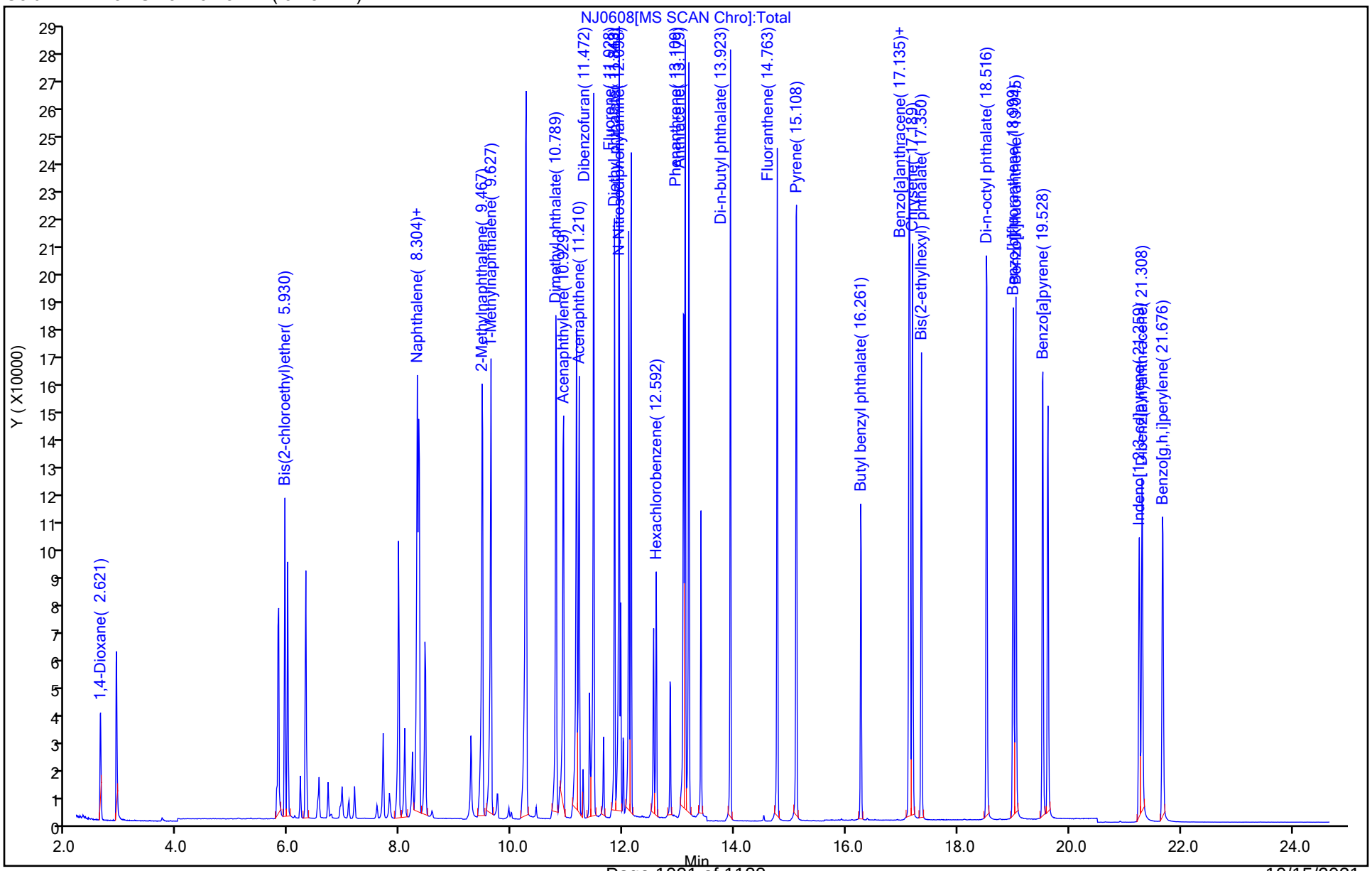
Report Date: 08-Oct-2021 13:51:36 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0608.D

Injection Date:	08-Oct-2021 07:57:30	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)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

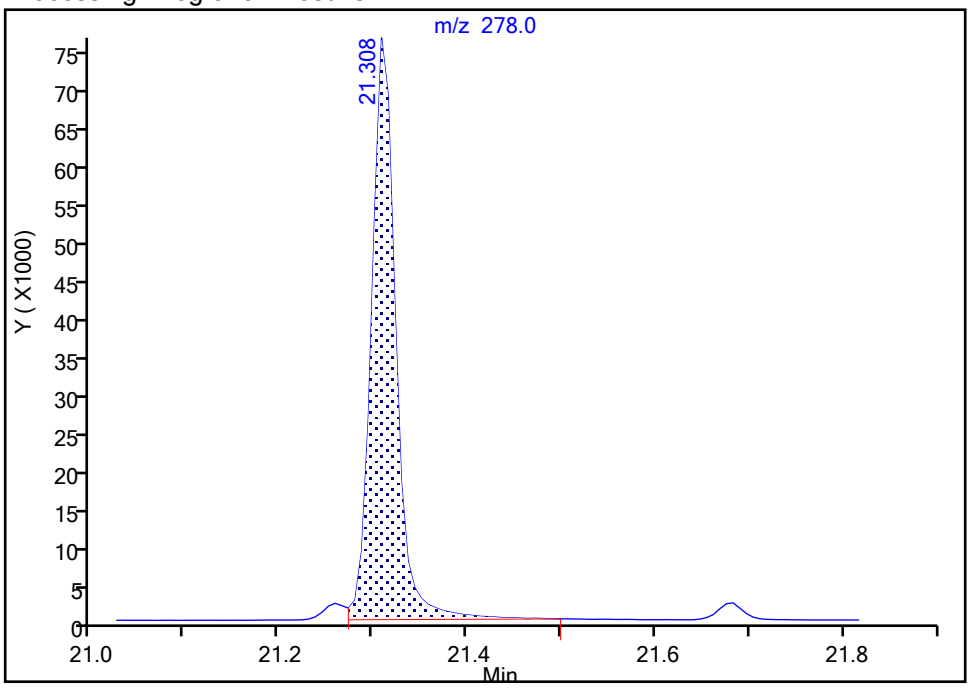
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Injection Date:	08-Oct-2021 07:57:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

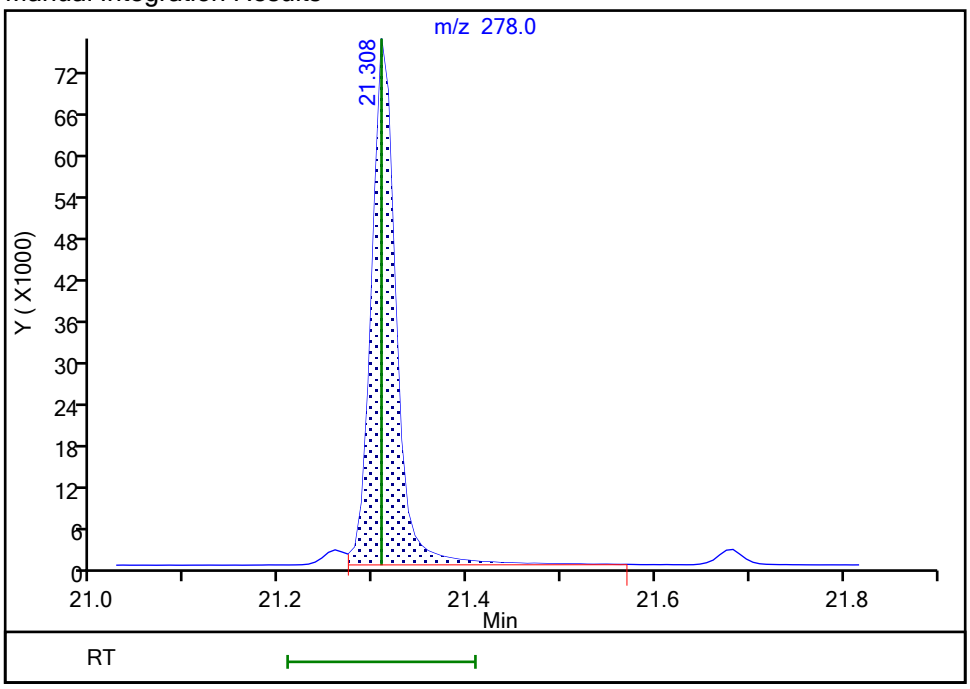
Processing Integration Results

RT: 21.31
Area: 136871
Amount: 0.199639
Amount Units: ug/ml



Manual Integration Results

RT: 21.31
Area: 138236
Amount: 0.231965
Amount Units: ug/ml



Reviewer: saadehw, 08-Oct-2021 13:11:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

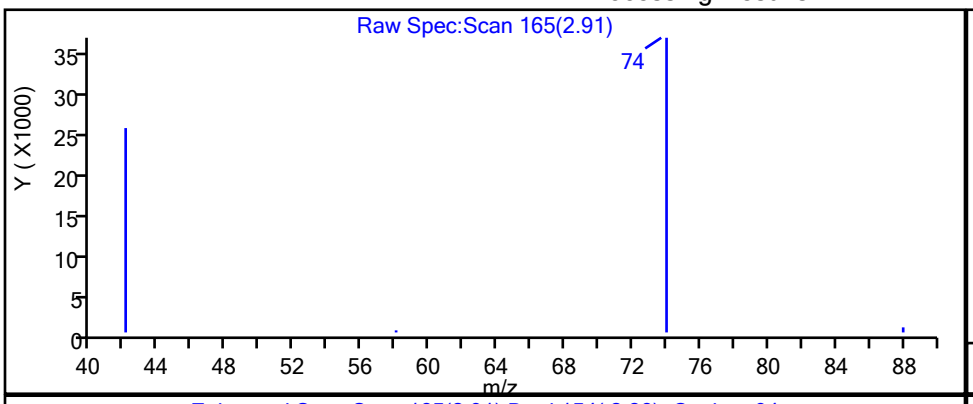
User Disabled Compound Report

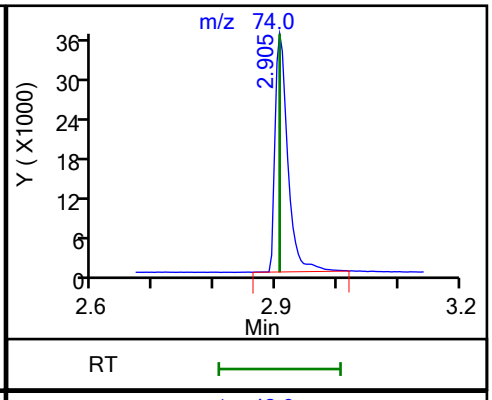
Eurofins Lancaster Laboratories Env, LLC

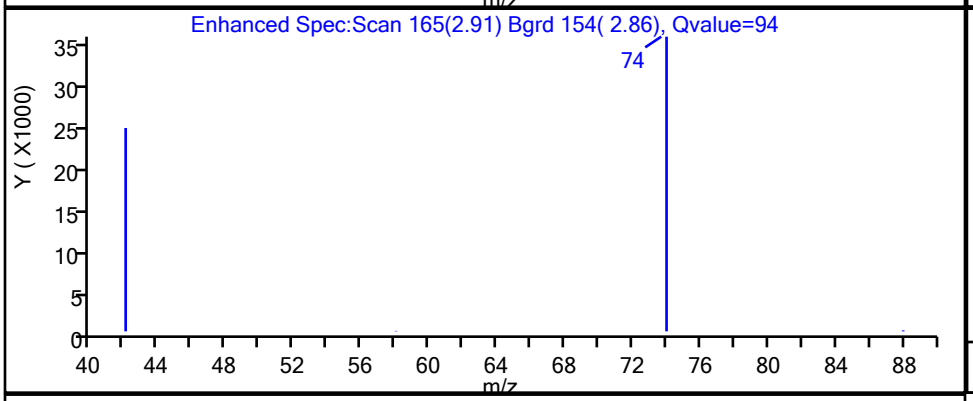
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Injection Date:	08-Oct-2021 07:57:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

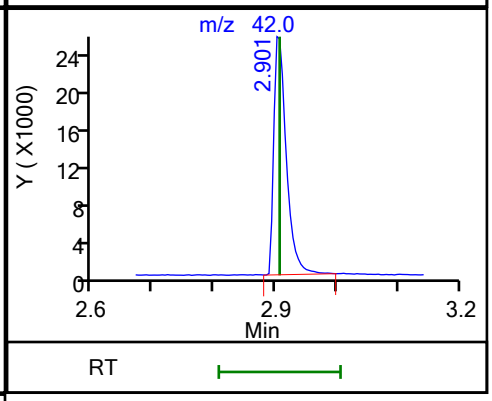
2 N-Nitrosodimethylamine, CAS: 62-75-9

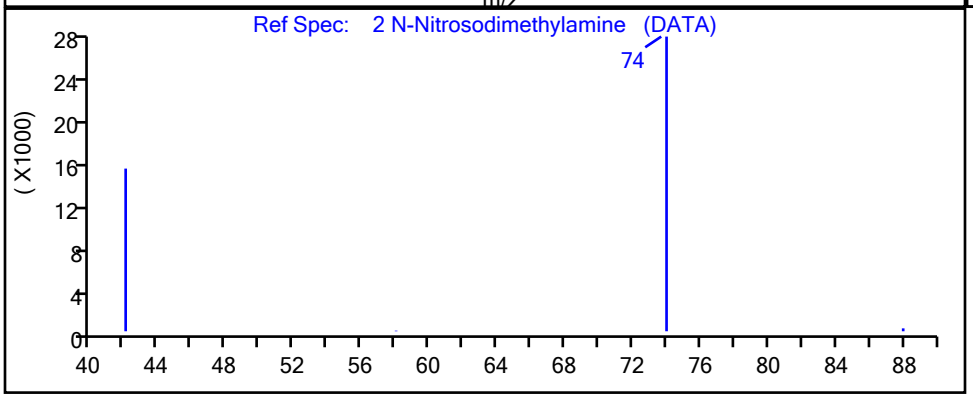
Processing Results











RT	Mass	Response	Amount
2.91	74.00	52106	0.343991
2.90	42.00	35998	

Reviewer: saadehw, 08-Oct-2021 13:51:30

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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: ICV 410-180399/11 Calibration Date: 10/08/2021 08:57

Instrument ID: HP23263 Calib Start Date: 10/08/2021 04:21

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/08/2021 06:57

Lab File ID: NJ0610.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Methylnaphthalene-d10 (Surr)	Ave	0.5114	0.5156		0.252	0.250	0.8	30.0
Fluoranthene-d10 (Surr)	Ave	1.018	0.9834		0.241	0.250	-3.4	30.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9229	0.8986		0.243	0.250	-2.6	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0610.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Oct-2021 08:57:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0041032-011
Operator ID: jmg00346 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 14:02:56 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: saadehw Date: 08-Oct-2021 13:12:26

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	6.330	6.330	0.000	100	79116	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.304	8.304	0.000	100	252757	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.567	9.567	0.000	100	130330	0.2500	0.2521	
* 13 Acenaphthene-d10	164	11.160	11.160	0.000	92	123486	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.086	13.086	0.000	100	226580	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.738	14.738	0.000	97	222824	0.2500	0.2414	
* 29 Chrysene-d12	240	17.143	17.143	0.000	81	167767	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.490	19.490	0.000	97	139519	0.2500	0.2434	
* 38 Perylene-d12	264	19.620	19.620	0.000	97	155264	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_ICV_00025 Amount Added: 1.00 Units: mL

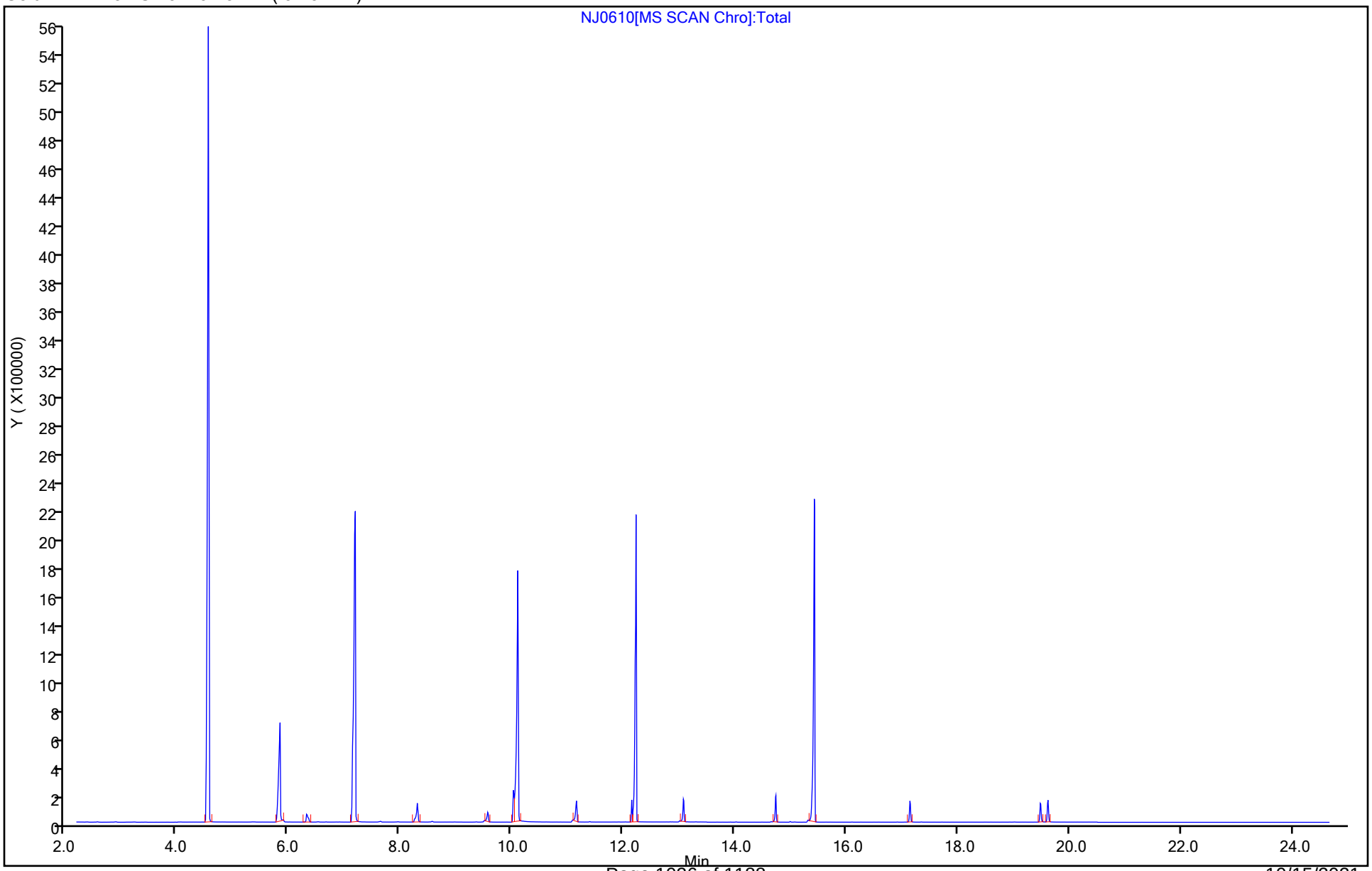
Report Date: 08-Oct-2021 14:02:57 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0610.D

Injection Date:	08-Oct-2021 08:57:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-181246/2 Calibration Date: 10/11/2021 09:26

Instrument ID: HP23263 Calib Start Date: 10/08/2021 04:21

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/08/2021 06:57

Lab File ID: NJ0761.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5092	0.5013		0.492	0.500	-1.6	20.0
N-Nitrosodimethylamine	Ave	0.5531	0.6105		0.552	0.500	10.4	20.0
Bis(2-chloroethyl)ether	Ave	0.3236	0.3717		0.574	0.500	14.9	20.0
Naphthalene	Ave	1.105	1.088		0.492	0.500	-1.6	20.0
Quinoline	Ave	0.6588	0.6940		0.527	0.500	5.3	20.0
2-Methylnaphthalene	Ave	0.7512	0.7156		0.476	0.500	-4.7	20.0
1-Methylnaphthalene	Ave	0.6886	0.6571		0.477	0.500	-4.6	20.0
Dimethylphthalate	Ave	1.454	1.488		2.56	2.50	2.4	20.0
Acenaphthylene	Ave	2.169	2.208		0.509	0.500	1.8	20.0
Acenaphthene	Ave	1.183	1.202		0.508	0.500	1.6	20.0
Dibenzofuran	Ave	2.039	1.999		0.490	0.500	-1.9	20.0
Diethylphthalate	Ave	1.536	1.600		2.60	2.50	4.2	20.0
Fluorene	Ave	1.526	1.594		0.522	0.500	4.4	20.0
N-Nitrosodiphenylamine	Ave	0.5158	0.5064		0.491	0.500	-1.8	20.0
Hexachlorobenzene	Ave	0.3367	0.3050		0.453	0.500	-9.4	20.0
Phenanthrene	Ave	1.272	1.263		0.497	0.500	-0.7	20.0
Anthracene	Ave	1.152	1.168		0.507	0.500	1.4	20.0
Di-n-butyl phthalate	Ave	1.310	1.378		2.63	2.50	5.2	20.0
Fluoranthene	Ave	1.351	1.322		0.489	0.500	-2.2	20.0
Pyrene	Ave	1.793	1.796		0.501	0.500	0.1	20.0
Butylbenzylphthalate	Ave	0.7688	0.8858		2.88	2.50	15.2	20.0
Benzo[a]anthracene	Ave	1.515	1.496		0.494	0.500	-1.3	20.0
Chrysene	Ave	1.465	1.531		0.522	0.500	4.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.129	1.266		2.80	2.50	12.1	20.0
Di-n-octyl phthalate	Ave	1.928	2.117		2.75	2.50	9.8	20.0
Benzo[b]fluoranthene	Ave	1.511	1.542		0.510	0.500	2.0	20.0
Benzo[k]fluoranthene	Ave	1.578	1.521		0.482	0.500	-3.6	20.0
Benzo[e]pyrene	Ave	1.468	1.441		0.491	0.500	-1.9	20.0
Benzo[a]pyrene	Ave	1.382	1.378		0.498	0.500	-0.3	20.0
Perylene	Ave	1.411	1.364		0.483	0.500	-3.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9676	1.150		0.594	0.500	18.9	20.0
Dibenz(a,h)anthracene	Ave	0.9782	1.241		0.634	0.500	26.8*	20.0
Benzo[g,h,i]perylene	Ave	1.146	1.351		0.590	0.500	17.9	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5114	0.4985		0.487	0.500	-2.5	20.0
Fluoranthene-d10 (Surr)	Ave	1.018	0.9735		0.478	0.500	-4.4	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9229	0.8954		0.485	0.500	-3.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0761.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Oct-2021 09:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0041227-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 10:03:29 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: gamblerj Date: 11-Oct-2021 10:03:23

	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	2.533	2.533	0.000	93	115273	0.5000	0.4922	
	2 N-Nitrosodimethylamine	74	2.827	2.827	0.000	99	140382	0.5000	0.5519	
	3 Bis(2-chloroethyl)ether	93	5.892	5.892	0.000	99	263727	0.5000	0.5743	
*	4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	86	114970	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.279	8.279	0.000	100	354748	0.2500	0.2500	
	6 Naphthalene	128	8.304	8.304	0.000	99	771696	0.5000	0.4920	
	7 Quinoline	129	8.854	8.854	0.000	100	492366	0.5000	0.5267	
	8 2-Methylnaphthalene	142	9.447	9.447	0.000	100	507691	0.5000	0.4763	
$	9 1-Methylnaphthalene-d10	152	9.547	9.547	0.000	100	353697	0.5000	0.4874	
	10 1-Methylnaphthalene	142	9.607	9.607	0.000	100	466178	0.5000	0.4771	
	11 Dimethyl phthalate	163	10.779	10.779	0.000	99	2616546	2.50	2.56	
	12 Acenaphthylene	152	10.899	10.899	0.000	68	776495	0.5000	0.5091	
*	13 Acenaphthene-d10	164	11.140	11.140	0.000	94	175819	0.2500	0.2500	
	14 Acenaphthene	154	11.190	11.190	0.000	96	422575	0.5000	0.5078	
	15 Dibenzofuran	168	11.449	11.449	0.000	100	703031	0.5000	0.4903	
	16 Diethyl phthalate	149	11.827	11.827	0.000	100	2812829	2.50	2.60	
	17 Fluorene	166	11.904	11.904	0.000	96	560534	0.5000	0.5222	
	18 N-Nitrosodiphenylamine	169	12.082	12.082	0.000	98	326817	0.5000	0.4909	
	19 Hexachlorobenzene	284	12.576	12.576	0.000	93	196840	0.5000	0.4529	
*	20 Phenanthrene-d10	188	13.063	13.063	0.000	100	322690	0.2500	0.2500	
	21 Phenanthrene	178	13.094	13.094	0.000	100	815397	0.5000	0.4966	
	22 Anthracene	178	13.155	13.155	0.000	99	753506	0.5000	0.5068	
	23 Di-n-butyl phthalate	149	13.904	13.904	0.000	100	4448062	2.50	2.63	
$	24 Fluoranthene-d10 (Surr)	212	14.713	14.713	0.000	99	628281	0.5000	0.4780	
	25 Fluoranthene	202	14.744	14.744	0.000	98	852907	0.5000	0.4891	
	26 Pyrene	202	15.083	15.083	0.000	97	885520	0.5000	0.5006	
	27 Butyl benzyl phthalate	149	16.246	16.246	0.000	100	2184364	2.50	2.88	
	28 Benzo[a]anthracene	228	17.105	17.105	0.000	99	737950	0.5000	0.4937	
*	29 Chrysene-d12	240	17.120	17.120	0.000	91	246590	0.2500	0.2500	
	30 Chrysene	228	17.166	17.166	0.000	100	755240	0.5000	0.5225	

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	17.327	17.327	0.000	99	3120920	2.50	2.80	
32 Di-n-octyl phthalate	149	18.501	18.501	0.000	100	5257667	2.50	2.75	
33 Benzo[b]fluoranthene	252	18.976	18.976	0.000	100	765855	0.5000	0.5102	
34 Benzo[k]fluoranthene	252	19.022	19.022	0.000	100	755656	0.5000	0.4821	
35 Benzo[e]pyrene	252	19.421	19.421	0.000	100	715530	0.5000	0.4906	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.467	19.467	0.000	98	444688	0.5000	0.4851	
37 Benzo[a]pyrene	252	19.505	19.505	0.000	100	684221	0.5000	0.4983	
* 38 Perylene-d12	264	19.597	19.597	0.000	97	248329	0.2500	0.2500	
39 Perylene	252	19.636	19.636	0.000	100	677302	0.5000	0.4833	
40 Indeno[1,2,3-cd]pyrene	276	21.230	21.230	0.000	100	571403	0.5000	0.5945	
41 Dibenz(a,h)anthracene	278	21.287	21.287	0.000	98	616141	0.5000	0.6341	
42 Benzo[g,h,i]perylene	276	21.654	21.654	0.000	100	671186	0.5000	0.5897	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

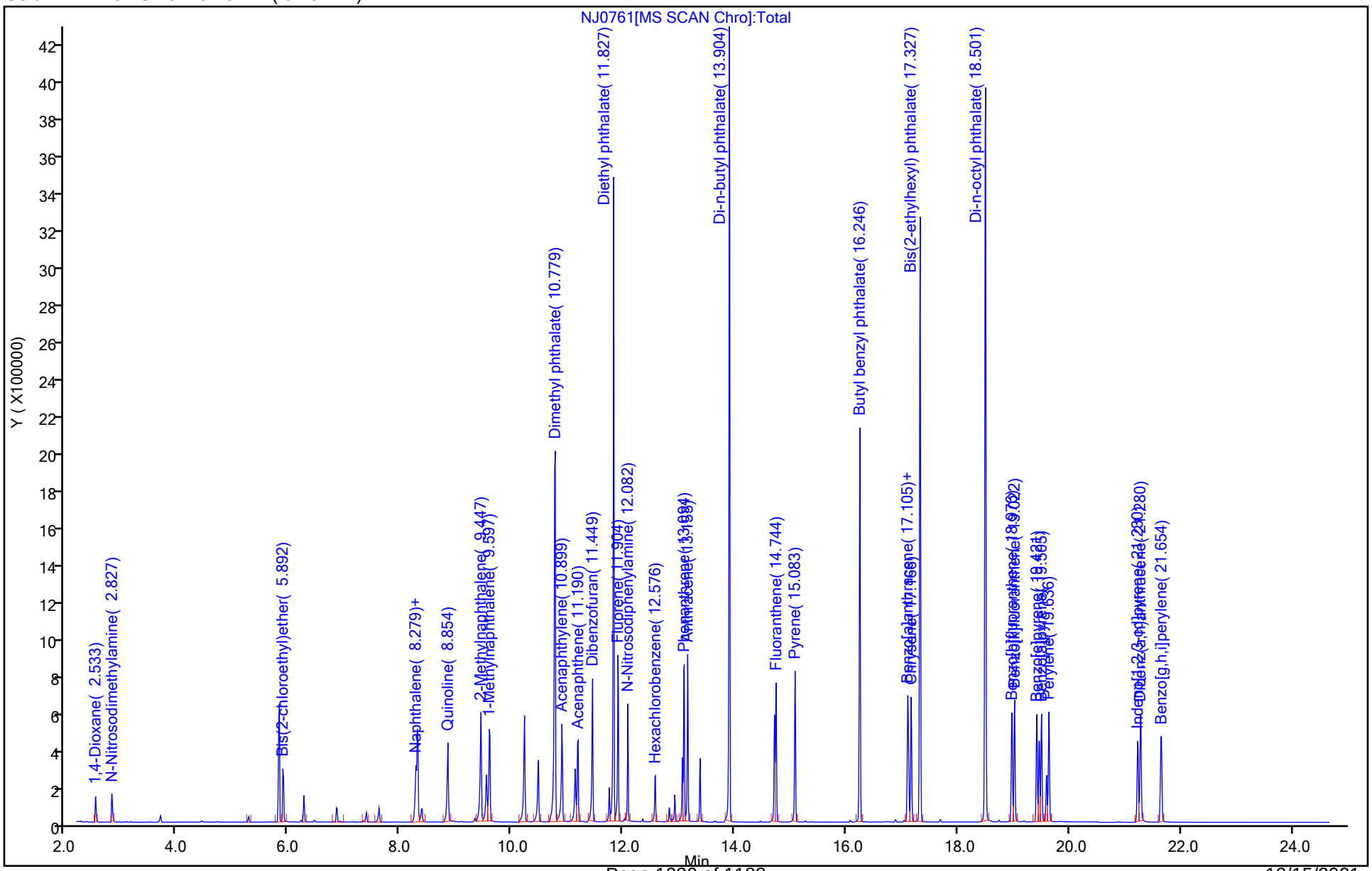
Report Date: 11-Oct-2021 10:03:30 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0761.D

Injection Date:	11-Oct-2021 09:26:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS 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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-181545/2 Calibration Date: 10/12/2021 06:08

Instrument ID: HP23263 Calib Start Date: 10/08/2021 04:21

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/08/2021 06:57

Lab File ID: NJ0801.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5092	0.5240		0.514	0.500	2.9	20.0
N-Nitrosodimethylamine	Ave	0.5531	0.6103		0.552	0.500	10.3	20.0
Bis(2-chloroethyl)ether	Ave	0.3236	0.3378		0.522	0.500	4.4	20.0
Naphthalene	Ave	1.105	1.082		0.490	0.500	-2.1	20.0
Quinoline	Ave	0.6588	0.6320		0.480	0.500	-4.1	20.0
2-Methylnaphthalene	Ave	0.7512	0.7051		0.469	0.500	-6.1	20.0
1-Methylnaphthalene	Ave	0.6886	0.6584		0.478	0.500	-4.4	20.0
Dimethylphthalate	Ave	1.454	1.374		2.36	2.50	-5.5	20.0
Acenaphthylene	Ave	2.169	2.132		0.492	0.500	-1.7	20.0
Acenaphthene	Ave	1.183	1.223		0.517	0.500	3.4	20.0
Dibenzofuran	Ave	2.039	1.950		0.478	0.500	-4.3	20.0
Diethylphthalate	Ave	1.536	1.538		2.50	2.50	0.1	20.0
Fluorene	Ave	1.526	1.442		0.472	0.500	-5.5	20.0
N-Nitrosodiphenylamine	Ave	0.5158	0.5202		0.504	0.500	0.8	20.0
Hexachlorobenzene	Ave	0.3367	0.3132		0.465	0.500	-7.0	20.0
Phenanthrene	Ave	1.272	1.245		0.489	0.500	-2.2	20.0
Anthracene	Ave	1.152	1.179		0.512	0.500	2.4	20.0
Di-n-butyl phthalate	Ave	1.310	1.439		2.75	2.50	9.8	20.0
Fluoranthene	Ave	1.351	1.305		0.483	0.500	-3.4	20.0
Pyrene	Ave	1.793	1.815		0.506	0.500	1.2	20.0
Butylbenzylphthalate	Ave	0.7688	0.9262		3.01	2.50	20.5*	20.0
Benzo[a]anthracene	Ave	1.515	1.579		0.521	0.500	4.2	20.0
Chrysene	Ave	1.465	1.579		0.539	0.500	7.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.129	1.334		2.95	2.50	18.1	20.0
Di-n-octyl phthalate	Ave	1.928	2.459		3.19	2.50	27.6*	20.0
Benzo[b]fluoranthene	Ave	1.511	1.707		0.565	0.500	13.0	20.0
Benzo[k]fluoranthene	Ave	1.578	1.652		0.523	0.500	4.7	20.0
Benzo[e]pyrene	Ave	1.468	1.550		0.528	0.500	5.6	20.0
Benzo[a]pyrene	Ave	1.382	1.453		0.526	0.500	5.1	20.0
Perylene	Ave	1.411	1.458		0.517	0.500	3.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9676	0.8973		0.464	0.500	-7.3	20.0
Dibenz(a,h)anthracene	Ave	0.9782	0.9387		0.480	0.500	-4.0	20.0
Benzo[g,h,i]perylene	Ave	1.146	0.9669		0.422	0.500	-15.6	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5114	0.4705		0.460	0.500	-8.0	20.0
Fluoranthene-d10 (Surr)	Ave	1.018	0.9793		0.481	0.500	-3.8	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9229	0.9450		0.512	0.500	2.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0801.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Oct-2021 06:08:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L4
Misc. Info.: 410-0041293-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 12-Oct-2021 06:41:21 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: gamblerj Date: 12-Oct-2021 06:41:15

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	2.537	2.537	0.000	95	77970	0.5000	0.5145	
2 N-Nitrosodimethylamine	74	2.831	2.831	0.000	100	90822	0.5000	0.5517	
3 Bis(2-chloroethyl)ether	93	5.892	5.892	0.000	99	164742	0.5000	0.5219	
* 4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	89	74405	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	243826	0.2500	0.2500	
6 Naphthalene	128	8.304	8.304	0.000	99	527796	0.5000	0.4896	
7 Quinoline	129	8.854	8.854	0.000	100	308189	0.5000	0.4796	
8 2-Methylnaphthalene	142	9.447	9.447	0.000	99	343859	0.5000	0.4693	
$ 9 1-Methylnaphthalene-d10	152	9.547	9.547	0.000	100	229442	0.5000	0.4600	
10 1-Methylnaphthalene	142	9.597	9.597	0.000	96	321071	0.5000	0.4781	
11 Dimethyl phthalate	163	10.769	10.769	0.000	98	1605569	2.50	2.36	
12 Acenaphthylene	152	10.899	10.899	0.000	68	498301	0.5000	0.4917	
* 13 Acenaphthene-d10	164	11.139	11.139	0.000	94	116839	0.2500	0.2500	
14 Acenaphthene	154	11.190	11.190	0.000	95	285759	0.5000	0.5168	
15 Dibenzofuran	168	11.449	11.449	0.000	100	455744	0.5000	0.4783	
16 Diethyl phthalate	149	11.827	11.827	0.000	100	1796771	2.50	2.50	
17 Fluorene	166	11.904	11.904	0.000	96	337021	0.5000	0.4724	
18 N-Nitrosodiphenylamine	169	12.082	12.082	0.000	98	202910	0.5000	0.5042	
19 Hexachlorobenzene	284	12.576	12.576	0.000	95	122178	0.5000	0.4651	
* 20 Phenanthrene-d10	188	13.063	13.063	0.000	100	195042	0.2500	0.2500	
21 Phenanthrene	178	13.094	13.094	0.000	100	485461	0.5000	0.4891	
22 Anthracene	178	13.155	13.155	0.000	99	460065	0.5000	0.5119	
23 Di-n-butyl phthalate	149	13.904	13.904	0.000	100	2806508	2.50	2.75	
$ 24 Fluoranthene-d10 (Surr)	212	14.713	14.713	0.000	100	382003	0.5000	0.4808	
25 Fluoranthene	202	14.744	14.744	0.000	98	508983	0.5000	0.4829	
26 Pyrene	202	15.083	15.083	0.000	98	526629	0.5000	0.5060	
27 Butyl benzyl phthalate	149	16.246	16.246	0.000	100	1343619	2.50	3.01	
28 Benzo[a]anthracene	228	17.105	17.105	0.000	99	457993	0.5000	0.5208	
* 29 Chrysene-d12	240	17.120	17.120	0.000	87	145067	0.2500	0.2500	
30 Chrysene	228	17.166	17.166	0.000	100	458203	0.5000	0.5388	

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	17.327	17.327	0.000	99	1935490	2.50	2.95	
32 Di-n-octyl phthalate	149	18.493	18.493	0.000	100	3356167	2.50	3.19	
33 Benzo[b]fluoranthene	252	18.976	18.976	0.000	100	465938	0.5000	0.5649	
34 Benzo[k]fluoranthene	252	19.022	19.022	0.000	100	450759	0.5000	0.5234	
35 Benzo[e]pyrene	252	19.421	19.421	0.000	100	423073	0.5000	0.5279	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.467	19.467	0.000	99	257912	0.5000	0.5120	
37 Benzo[a]pyrene	252	19.505	19.505	0.000	100	396609	0.5000	0.5256	
* 38 Perylene-d12	264	19.597	19.597	0.000	98	136466	0.2500	0.2500	
39 Perylene	252	19.636	19.636	0.000	100	398003	0.5000	0.5168	
40 Indeno[1,2,3-cd]pyrene	276	21.230	21.230	0.000	99	244894	0.5000	0.4636	
41 Dibenz(a,h)anthracene	278	21.287	21.287	0.000	99	256199	0.5000	0.4798	
42 Benzo[g,h,i]perylene	276	21.654	21.654	0.000	100	263895	0.5000	0.4219	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

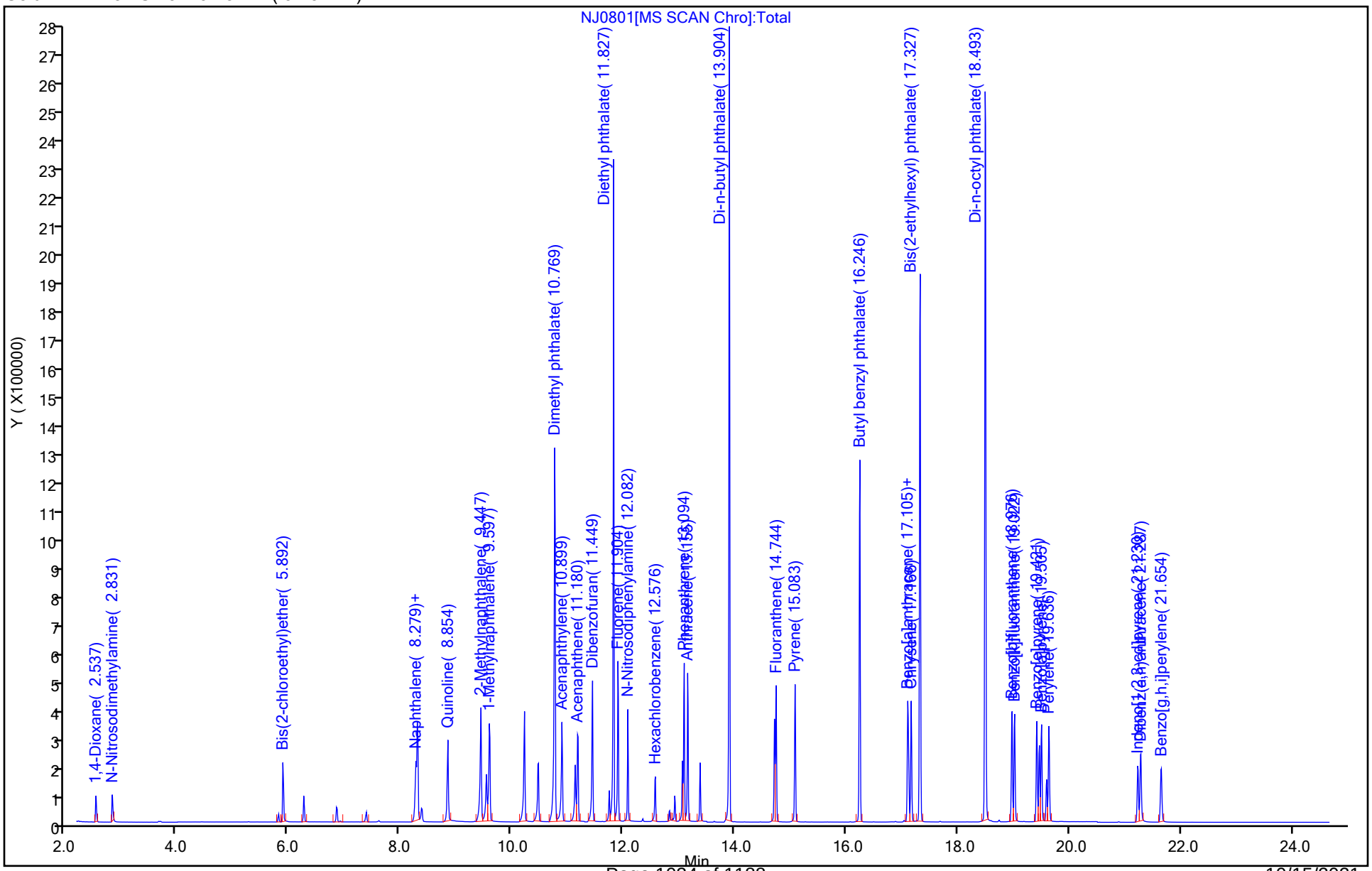
Report Date: 12-Oct-2021 06:41:22 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0801.D

Injection Date:	12-Oct-2021 06:08:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS 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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Lab Sample ID: CCVIS 410-182120/2 Calibration Date: 10/13/2021 08:35

Instrument ID: HP23263 Calib Start Date: 10/08/2021 04:21

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/08/2021 06:57

Lab File ID: NJ0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5092	0.5325		0.523	0.500	4.6	20.0
N-Nitrosodimethylamine	Ave	0.5531	0.6138		0.555	0.500	11.0	20.0
Bis(2-chloroethyl)ether	Ave	0.3236	0.3472		0.536	0.500	7.3	20.0
Naphthalene	Ave	1.105	1.088		0.492	0.500	-1.6	20.0
Quinoline	Ave	0.6588	0.6442		0.489	0.500	-2.2	20.0
2-Methylnaphthalene	Ave	0.7512	0.7131		0.475	0.500	-5.1	20.0
1-Methylnaphthalene	Ave	0.6886	0.6942		0.504	0.500	0.8	20.0
Dimethylphthalate	Ave	1.454	1.407		2.42	2.50	-3.2	20.0
Acenaphthylene	Ave	2.169	2.134		0.492	0.500	-1.6	20.0
Acenaphthene	Ave	1.183	1.201		0.508	0.500	1.5	20.0
Dibenzofuran	Ave	2.039	1.987		0.487	0.500	-2.5	20.0
Diethylphthalate	Ave	1.536	1.550		2.52	2.50	0.9	20.0
Fluorene	Ave	1.526	1.473		0.482	0.500	-3.5	20.0
N-Nitrosodiphenylamine	Ave	0.5158	0.5043		0.489	0.500	-2.2	20.0
Hexachlorobenzene	Ave	0.3367	0.2974		0.442	0.500	-11.7	20.0
Phenanthrene	Ave	1.272	1.273		0.500	0.500	0.0	20.0
Anthracene	Ave	1.152	1.153		0.500	0.500	0.0	20.0
Di-n-butyl phthalate	Ave	1.310	1.429		2.73	2.50	9.1	20.0
Fluoranthene	Ave	1.351	1.321		0.489	0.500	-2.2	20.0
Pyrene	Ave	1.793	1.879		0.524	0.500	4.8	20.0
Butylbenzylphthalate	Ave	0.7688	0.9153		2.98	2.50	19.1	20.0
Benzo[a]anthracene	Ave	1.515	1.595		0.526	0.500	5.2	20.0
Chrysene	Ave	1.465	1.511		0.516	0.500	3.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.129	1.301		2.88	2.50	15.2	20.0
Di-n-octyl phthalate	Ave	1.928	2.323		3.01	2.50	20.5*	20.0
Benzo[b]fluoranthene	Ave	1.511	1.593		0.527	0.500	5.4	20.0
Benzo[k]fluoranthene	Ave	1.578	1.562		0.495	0.500	-1.0	20.0
Benzo[e]pyrene	Ave	1.468	1.486		0.506	0.500	1.2	20.0
Benzo[a]pyrene	Ave	1.382	1.399		0.506	0.500	1.2	20.0
Perylene	Ave	1.411	1.427		0.506	0.500	1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9676	1.119		0.578	0.500	15.6	20.0
Dibenz(a,h)anthracene	Ave	0.9782	1.132		0.579	0.500	15.7	20.0
Benzo[g,h,i]perylene	Ave	1.146	1.253		0.547	0.500	9.3	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5114	0.4952		0.484	0.500	-3.2	20.0
Fluoranthene-d10 (Surr)	Ave	1.018	0.998		0.490	0.500	-2.0	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9229	0.9157		0.496	0.500	-0.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0851.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Oct-2021 08:35:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L4
Misc. Info.: 410-0041421-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 09:15:42 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 09:15:35

	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	2.559	2.559	0.000	94	89616	0.5000	0.5228	
	2 N-Nitrosodimethylamine	74	2.848	2.848	0.000	99	103313	0.5000	0.5549	
	3 Bis(2-chloroethyl)ether	93	5.892	5.892	0.000	88	191956	0.5000	0.5364	
*	4 1,4-Dichlorobenzene-d4	152	6.267	6.267	0.000	98	84152	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.267	8.267	0.000	100	276420	0.2500	0.2500	
	6 Naphthalene	128	8.292	8.292	0.000	99	601385	0.5000	0.4921	
	7 Quinoline	129	8.841	8.841	0.000	100	356135	0.5000	0.4889	
	8 2-Methylnaphthalene	142	9.437	9.437	0.000	100	394206	0.5000	0.4746	
$	9 1-Methylnaphthalene-d10	152	9.527	9.527	0.000	100	273784	0.5000	0.4842	
	10 1-Methylnaphthalene	142	9.587	9.587	0.000	98	383784	0.5000	0.5041	
	11 Dimethyl phthalate	163	10.759	10.759	0.000	100	1973279	2.50	2.42	
	12 Acenaphthylene	152	10.889	10.889	0.000	68	598707	0.5000	0.4920	
*	13 Acenaphthene-d10	164	11.119	11.119	0.000	88	140295	0.2500	0.2500	
	14 Acenaphthene	154	11.170	11.170	0.000	98	337099	0.5000	0.5077	
	15 Dibenzofuran	168	11.433	11.433	0.000	99	557658	0.5000	0.4874	
	16 Diethyl phthalate	149	11.812	11.812	0.000	99	2174096	2.50	2.52	
	17 Fluorene	166	11.897	11.897	0.000	98	413252	0.5000	0.4825	
	18 N-Nitrosodiphenylamine	169	12.074	12.074	0.000	98	257191	0.5000	0.4889	
	19 Hexachlorobenzene	284	12.561	12.561	0.000	98	151692	0.5000	0.4417	
*	20 Phenanthrene-d10	188	13.047	13.047	0.000	100	254988	0.2500	0.2500	
	21 Phenanthrene	178	13.078	13.078	0.000	100	649157	0.5000	0.5003	
	22 Anthracene	178	13.140	13.140	0.000	99	587904	0.5000	0.5004	
	23 Di-n-butyl phthalate	149	13.892	13.892	0.000	100	3644283	2.50	2.73	
$	24 Fluoranthene-d10 (Surr)	212	14.700	14.700	0.000	98	509114	0.5000	0.4902	
	25 Fluoranthene	202	14.725	14.725	0.000	98	673659	0.5000	0.4889	
	26 Pyrene	202	15.064	15.064	0.000	98	733286	0.5000	0.5238	
	27 Butyl benzyl phthalate	149	16.223	16.223	0.000	100	1786203	2.50	2.98	
	28 Benzo[a]anthracene	228	17.082	17.082	0.000	99	622525	0.5000	0.5262	
*	29 Chrysene-d12	240	17.105	17.105	0.000	93	195160	0.2500	0.2500	
	30 Chrysene	228	17.143	17.143	0.000	100	589948	0.5000	0.5157	

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	17.304	17.304	0.000	99	2539587	2.50	2.88	
32 Di-n-octyl phthalate	149	18.478	18.478	0.000	100	4406779	2.50	3.01	
33 Benzo[b]fluoranthene	252	18.953	18.953	0.000	100	604601	0.5000	0.5272	
34 Benzo[k]fluoranthene	252	18.999	18.999	0.000	100	592873	0.5000	0.4951	
35 Benzo[e]pyrene	252	19.398	19.398	0.000	100	563808	0.5000	0.5060	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.444	19.444	0.000	99	347477	0.5000	0.4961	
37 Benzo[a]pyrene	252	19.482	19.482	0.000	100	531025	0.5000	0.5062	
* 38 Perylene-d12	264	19.574	19.574	0.000	98	189735	0.2500	0.2500	
39 Perylene	252	19.613	19.613	0.000	100	541654	0.5000	0.5059	
40 Indeno[1,2,3-cd]pyrene	276	21.209	21.209	0.000	98	424543	0.5000	0.5781	
41 Dibenz(a,h)anthracene	278	21.259	21.259	0.000	100	429661	0.5000	0.5787	
42 Benzo[g,h,i]perylene	276	21.626	21.626	0.000	100	475379	0.5000	0.5467	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00017 Amount Added: 1.00 Units: mL

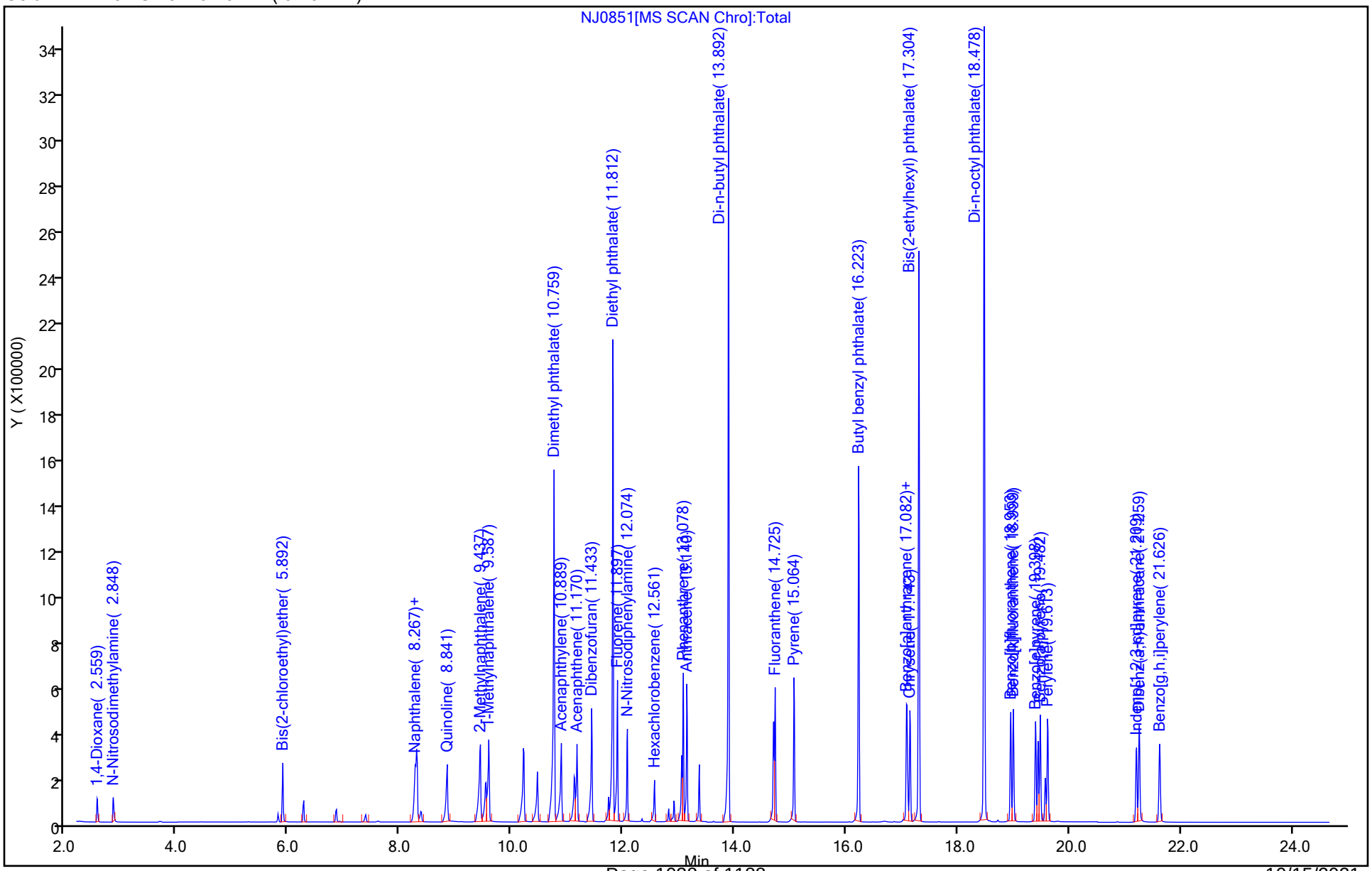
Report Date: 13-Oct-2021 09:15:43 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0851.D

Injection Date:	13-Oct-2021 08:35:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS 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\HP21585\20210820-37357.b\MH1150.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 20-Aug-2021 05:06:23 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0037357-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Aug-2021 14:14:34 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: gamblerj Date: 20-Aug-2021 06:07:55

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	5.306	5.306	0.000	0	1537357	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.582	6.582	0.000	0	3831365	NR	NR	
47 4,4'-DDE	246	6.737	6.737	0.000	0	3151		NR	
48 4,4'-DDD	235	7.034	7.034	0.000	0	5243		NR	
49 4,4'-DDT	235	7.309	7.309	0.000	0	2458697	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

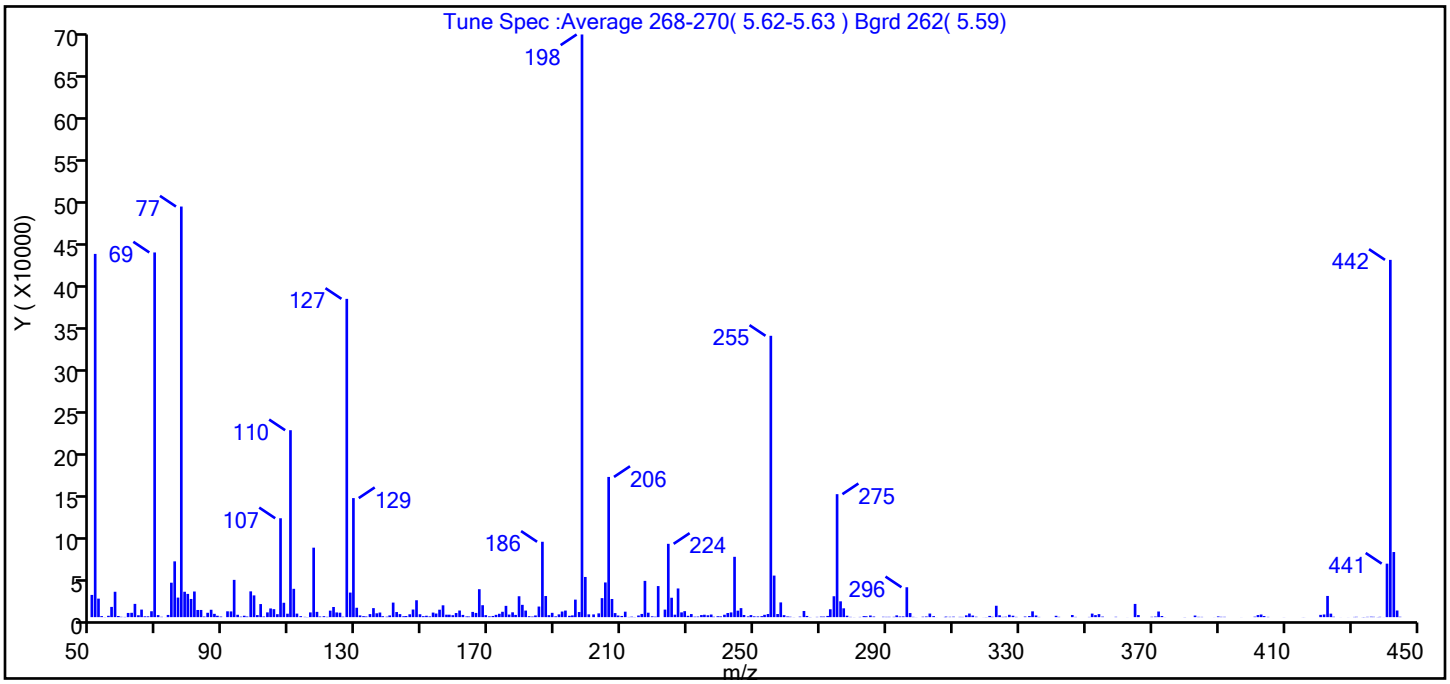
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D
Injection Date: 20-Aug-2021 05:06:23 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 8270

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (163.1)
51	10-80% of the base peak	62.3
68	<2% of mass 69	1.0 (1.6)
69	Present	62.6
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	54.6
197	<2% of mass 198	0.9
199	5-9% of mass 198	6.9
275	10-60% of the base peak	21.1
365	>1% of mass 198	2.3
441	present but <24% of mass 442	9.2 (15.0)
442	base peak, or >50% of 198	61.3
443	15-24% of mass 442	11.2 (18.2)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 20-Aug-2021 05:06:23
Spectrum: Tune Spec :Average 268-270(5.62-5.63) Bgrd 262(5.59)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	26480	134.00	3644	218.00	5280	309.00	431
51.00	432896	135.00	10753	219.00	969	310.00	572
52.00	22072	136.00	4578	220.00	542	312.00	356
53.00	1231	137.00	5499	221.00	37032	313.00	289
54.00	133	138.00	1103	223.00	8985	314.00	2131
55.00	1622	139.00	548	224.00	87384	315.00	4288
56.00	12193	140.00	2045	225.00	23112	316.00	1906
57.00	30248	141.00	17336	226.00	2929	317.00	501
58.00	1362	142.00	6091	227.00	34184	319.00	73
59.00	417	143.00	3610	228.00	5686	320.00	157
60.00	262	144.00	1058	229.00	7132	321.00	1466
61.00	4996	145.00	1300	230.00	1613	322.00	399
62.00	5170	146.00	3406	231.00	3682	323.00	13571
63.00	15803	147.00	9074	232.00	571	324.00	2218
64.00	2244	148.00	20120	233.00	725	325.00	328
65.00	9003	149.00	3458	234.00	2491	326.00	538
66.00	931	150.00	1150	235.00	2857	327.00	2782
67.00	951	151.00	1672	236.00	2198	328.00	1693
68.00	7028	152.00	897	237.00	3118	329.00	314
69.00	434624	153.00	5438	238.00	472	332.00	740
70.00	2429	154.00	4304	239.00	1102	333.00	1315
71.00	424	155.00	8863	240.00	881	334.00	6923
72.00	44	156.00	14106	241.00	2867	335.00	1964
73.00	2627	157.00	2929	242.00	4916	336.00	282
74.00	41048	158.00	2910	243.00	5629	341.00	1602
75.00	66472	159.00	2328	244.00	71896	342.00	375
76.00	23312	160.00	4897	245.00	7736	346.00	2521
77.00	489344	161.00	7876	246.00	10759	347.00	307
78.00	30264	162.00	2666	247.00	2536	351.00	272
79.00	27704	163.00	807	248.00	882	352.00	4226
80.00	21680	164.00	757	249.00	2479	353.00	2403
81.00	30560	165.00	6238	250.00	926	354.00	3600
82.00	8555	166.00	5031	251.00	834	355.00	669

Report Date: 20-Aug-2021 14:14:35 Chrom Revision: 2.3 03-Aug-2021 10:08:16
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 20-Aug-2021 05:06:23
Spectrum: Tune Spec :Average 268-270(5.62-5.63) Bgrd 262(5.59)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	8563	167.00	33288	252.00	1168	359.00	426
84.00	704	168.00	14221	253.00	2783	363.00	51
85.00	5198	169.00	2365	254.00	3714	365.00	15756
86.00	8801	170.00	945	255.00	335296	366.00	2488
87.00	3936	171.00	1423	256.00	49520	370.00	426
88.00	1663	172.00	2759	257.00	3712	371.00	727
89.00	702	173.00	3997	258.00	17568	372.00	6723
91.00	6961	174.00	6397	259.00	2364	373.00	1337
92.00	6831	175.00	13450	260.00	816	374.00	85
93.00	44424	176.00	3047	261.00	485	380.00	156
94.00	2829	177.00	5759	262.00	113	383.00	1901
95.00	591	178.00	2661	264.00	615	384.00	379
96.00	1679	179.00	24912	265.00	7354	385.00	312
97.00	742	180.00	14665	266.00	1423	389.00	58
98.00	30728	181.00	7839	267.00	182	390.00	871
99.00	25920	182.00	1092	269.00	326	391.00	400
100.00	2439	183.00	700	270.00	715	392.00	387
101.00	15595	184.00	1992	271.00	671	397.00	59
102.00	786	185.00	12632	272.00	1455	401.00	580
103.00	5669	186.00	89832	273.00	9402	402.00	2472
104.00	10375	187.00	25168	274.00	24912	403.00	3155
105.00	9514	188.00	2340	275.00	146560	404.00	1298
106.00	3517	189.00	5147	276.00	18856	405.00	314
107.00	117848	190.00	946	277.00	10513	410.00	83
108.00	17136	191.00	3291	278.00	1711	416.00	58
109.00	4088	192.00	6692	279.00	320	416.00	81
110.00	222784	193.00	7824	280.00	107	421.00	2710
111.00	33752	194.00	1598	282.00	276	422.00	3181
112.00	4222	195.00	2053	283.00	1204	423.00	25256
113.00	1196	196.00	20888	284.00	1050	424.00	4174
114.00	339	197.00	6087	285.00	1969	425.00	483
115.00	160	198.00	694400	286.00	737	427.00	55
116.00	5661	199.00	47888	289.00	452	429.00	65
117.00	82792	200.00	3326	290.00	368	431.00	275

Report Date: 20-Aug-2021 14:14:35 Chrom Revision: 2.3 03-Aug-2021 10:08:16
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 20-Aug-2021 05:06:23
Spectrum: Tune Spec :Average 268-270(5.62-5.63) Bgrd 262(5.59)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	6299	201.00	3259	291.00	388	432.00	390
119.00	745	203.00	4504	292.00	388	434.00	132
120.00	1136	204.00	22656	293.00	2114	434.00	156
121.00	394	205.00	41336	294.00	766	435.00	364
122.00	7747	206.00	167104	295.00	850	436.00	532
123.00	12101	207.00	21632	296.00	35624	437.00	414
124.00	5623	208.00	4828	297.00	4865	438.00	155
125.00	5293	209.00	1954	298.00	357	439.00	385
126.00	548	210.00	1418	299.00	97	440.00	64
127.00	379328	211.00	6509	301.00	535	441.00	63752
128.00	29272	212.00	248	302.00	789	442.00	425792
129.00	141888	213.00	565	303.00	4302	443.00	77600
130.00	11193	214.00	193	304.00	1215	444.00	7912
131.00	2075	215.00	1953	305.00	56	445.00	446
132.00	1174	216.00	3820	308.00	247		
133.00	785	217.00	43224	308.00	636		

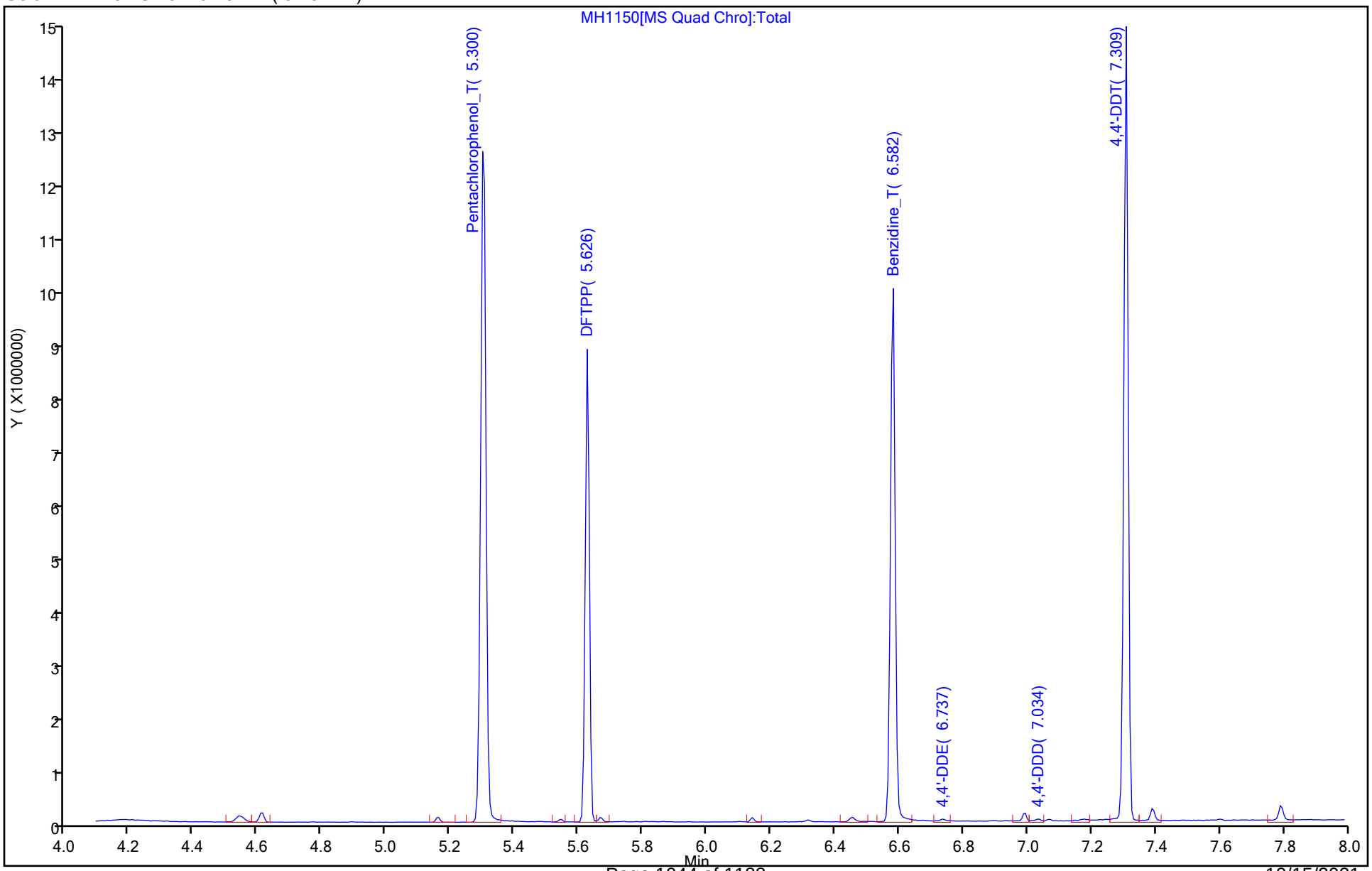
Report Date: 20-Aug-2021 14:14:35 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D

Injection Date:	20-Aug-2021 05:06:23	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)

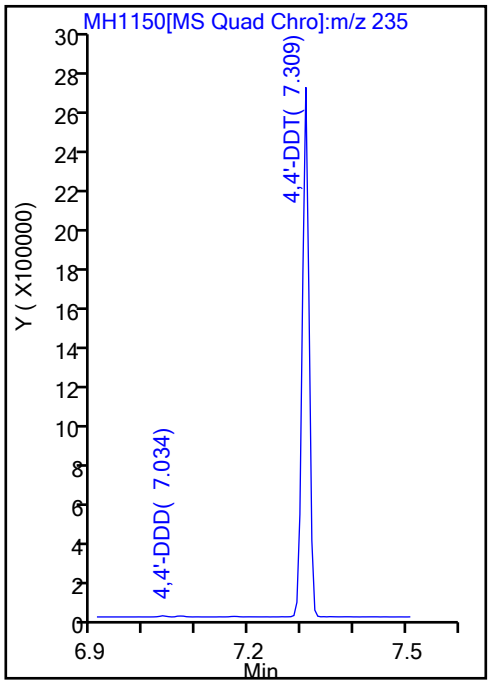


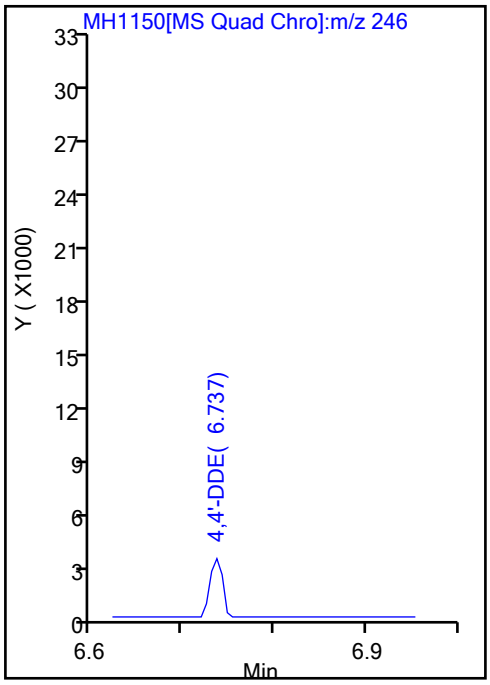
Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D
Injection Date: 20-Aug-2021 05:06:23 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 = 2458697
47 4,4'-DDE, Area = 3151
48 4,4'-DDD, Area = 5243

%Breakdown: 0.34%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

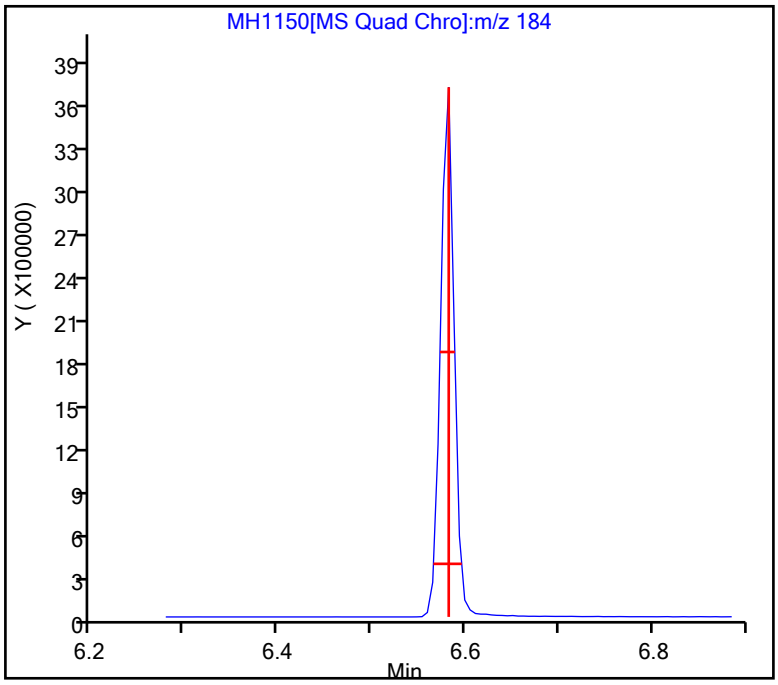
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D
Injection Date: 20-Aug-2021 05:06:23 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.88, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

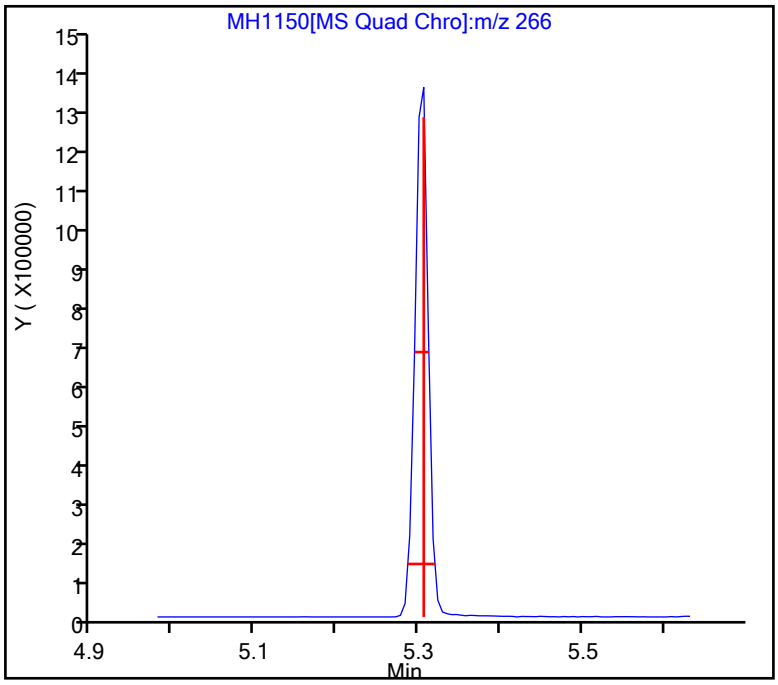
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1150.D
Injection Date: 20-Aug-2021 05:06:23 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 0.70, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Oct-2021 08:34:12 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0040957-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Oct-2021 09:25:31 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: gamblerj Date: 07-Oct-2021 09:25:31

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	5.140	5.140	0.000	0	1366517	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.405	6.405	0.000	0	3517938	NR	NR	
47 4,4'-DDE	246	6.548	6.548	0.000	0	4868		NR	
48 4,4'-DDD	235	6.845	6.845	0.000	0	101308		NR	
49 4,4'-DDT	235	7.108	7.108	0.000	0	2080399	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

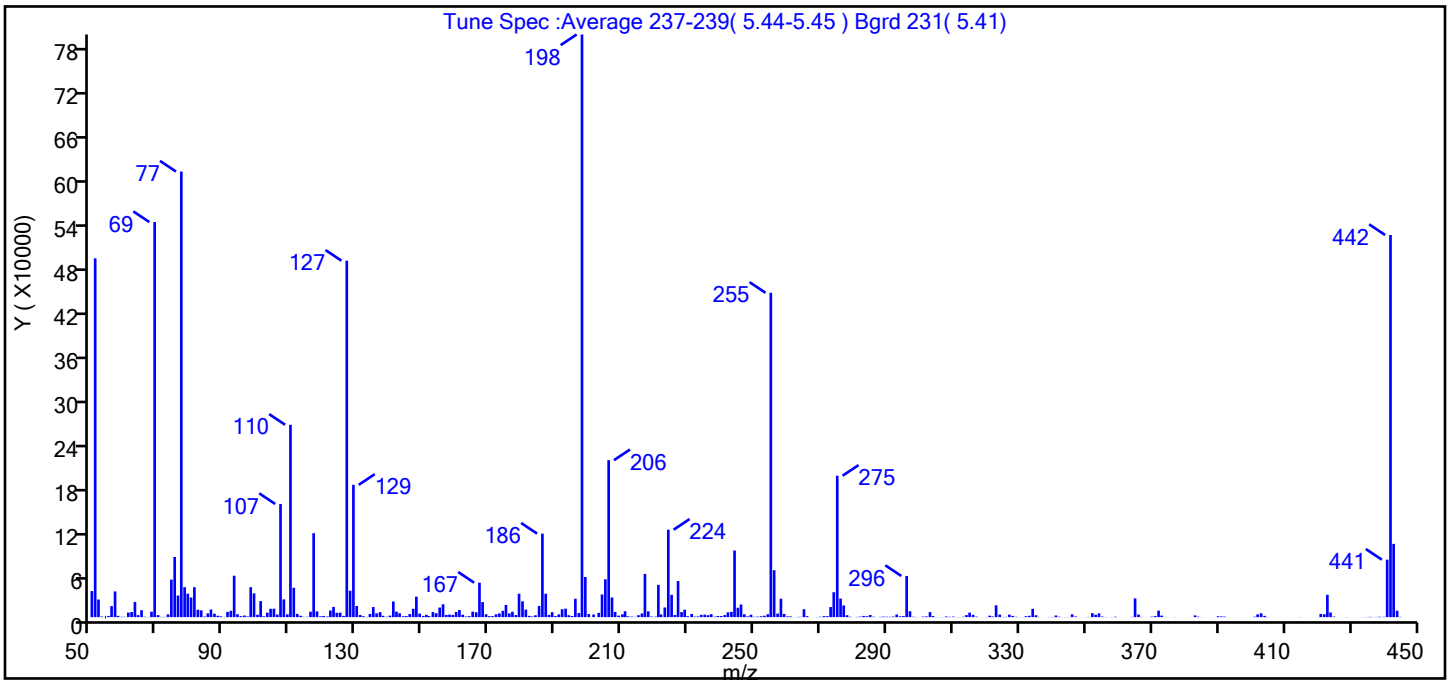
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D
Injection Date: 07-Oct-2021 08:34:12 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 (152.5)
51	10-80% of the base peak	61.6
68	<2% of mass 69	0.9 (1.4)
69	Present	67.8
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	61.2
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.9
275	10-60% of the base peak	24.3
365	>1% of mass 198	3.2
441	present but <24% of mass 442	9.9 (15.0)
442	base peak, or >50% of 198	65.6
443	15-24% of mass 442	12.6 (19.2)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 07-Oct-2021 08:34:12
Spectrum: Tune Spec :Average 237-239(5.44-5.45) Bgrd 231(5.41)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	35832	138.00	1864	227.00	49576	319.00	76
51.00	492480	139.00	557	228.00	6921	320.00	164
52.00	24200	140.00	2071	229.00	10224	321.00	1964
53.00	848	141.00	21488	230.00	1241	322.00	900
54.00	1	142.00	7556	231.00	4409	323.00	16249
55.00	1692	143.00	5299	232.00	776	324.00	3478
56.00	15092	144.00	1232	233.00	1019	325.00	157
57.00	35320	145.00	1431	234.00	3134	326.00	368
58.00	1803	146.00	4167	235.00	3444	327.00	3519
59.00	442	147.00	11511	236.00	2627	328.00	1656
60.00	441	148.00	28144	237.00	4083	329.00	480
61.00	6274	149.00	4825	238.00	578	330.00	154
62.00	6989	150.00	1704	239.00	1547	331.00	93
63.00	20880	151.00	3198	240.00	1581	332.00	1283
64.00	2767	152.00	1539	241.00	2837	333.00	1850
65.00	9551	153.00	6965	242.00	6635	334.00	11401
66.00	532	154.00	5343	243.00	7213	335.00	2616
67.00	160	155.00	13145	244.00	91440	336.00	261
68.00	7516	156.00	17664	245.00	12860	339.00	272
69.00	542336	157.00	3047	246.00	17408	340.00	295
70.00	2814	158.00	3552	247.00	3885	341.00	2261
71.00	381	159.00	3008	248.00	1003	342.00	581
72.00	346	160.00	7157	249.00	3332	343.00	108
73.00	3925	161.00	9815	250.00	494	344.00	163
74.00	51520	162.00	3322	251.00	723	345.00	161
75.00	82624	163.00	877	252.00	1247	346.00	3879
76.00	29688	164.00	1335	253.00	1984	347.00	850
77.00	611648	165.00	7596	254.00	4044	348.00	76
78.00	41128	166.00	6713	255.00	445248	350.00	142
79.00	32192	167.00	47320	256.00	64472	351.00	301
80.00	26944	168.00	20664	257.00	4893	352.00	5455
81.00	41112	169.00	3974	258.00	25336	353.00	3369
82.00	10217	170.00	1408	259.00	4404	354.00	5204

Report Date: 07-Oct-2021 09:25:32 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 07-Oct-2021 08:34:12
Spectrum: Tune Spec :Average 237-239(5.44-5.45) Bgrd 231(5.41)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	9383	171.00	1434	260.00	1022	355.00	806
84.00	818	172.00	3923	261.00	995	356.00	229
85.00	5204	173.00	5082	262.00	139	357.00	4
86.00	10404	174.00	8640	263.00	332	358.00	185
87.00	4689	175.00	16696	264.00	489	359.00	621
88.00	1951	176.00	5046	265.00	10809	361.00	65
89.00	1131	177.00	7434	266.00	1363	364.00	317
90.00	302	178.00	2822	269.00	249	365.00	25736
91.00	7195	179.00	32136	270.00	494	366.00	3551
92.00	8721	180.00	21688	271.00	1470	367.00	309
93.00	56840	181.00	10363	272.00	1320	370.00	643
94.00	3961	182.00	1759	273.00	13833	371.00	1451
95.00	1393	183.00	829	274.00	34288	372.00	8915
96.00	2208	184.00	2557	275.00	194112	373.00	2105
97.00	875	185.00	15356	276.00	25472	374.00	278
98.00	41112	186.00	114648	277.00	16055	377.00	176
99.00	32640	187.00	32208	278.00	2635	383.00	2381
100.00	3242	188.00	3091	279.00	625	384.00	665
101.00	21992	189.00	6832	280.00	59	385.00	148
102.00	1179	190.00	1416	281.00	347	389.00	66
103.00	6126	191.00	3748	282.00	758	390.00	1215
104.00	11476	192.00	10842	283.00	1718	391.00	957
105.00	11595	193.00	11647	284.00	1304	392.00	714
106.00	3531	194.00	2657	285.00	2961	393.00	61
107.00	155328	195.00	1556	286.00	621	395.00	56
108.00	24392	196.00	25296	288.00	446	397.00	76
109.00	3844	197.00	5587	289.00	717	401.00	618
110.00	264064	198.00	799808	290.00	630	402.00	3810
111.00	40320	199.00	55048	291.00	415	403.00	5313
112.00	4422	200.00	4244	292.00	815	404.00	1743
113.00	1882	201.00	3593	293.00	3642	405.00	226
114.00	433	203.00	5882	294.00	1155	415.00	234
115.00	469	204.00	31104	295.00	1458	420.00	60
116.00	7503	205.00	51936	296.00	56496	421.00	4436

Report Date: 07-Oct-2021 09:25:32 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 07-Oct-2021 08:34:12
Spectrum: Tune Spec :Average 237-239(5.44-5.45) Bgrd 231(5.41)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	115216	206.00	215488	297.00	8113	422.00	4041
118.00	7870	207.00	26944	298.00	554	423.00	30712
119.00	1080	208.00	7155	299.00	204	424.00	6357
120.00	1662	209.00	2118	301.00	763	425.00	790
121.00	841	210.00	3839	302.00	1013	429.00	136
122.00	9106	211.00	8046	303.00	6917	432.00	56
123.00	14048	212.00	1163	304.00	1542	433.00	123
124.00	5966	213.00	737	305.00	208	434.00	186
125.00	6175	214.00	327	306.00	193	435.00	313
126.00	1730	215.00	2673	307.00	167	436.00	368
127.00	489280	216.00	5018	308.00	933	438.00	241
128.00	36240	217.00	59304	309.00	459	438.00	421
129.00	181632	218.00	7942	310.00	767	439.00	391
130.00	15279	219.00	781	311.00	146	440.00	497
131.00	2976	220.00	628	312.00	207	441.00	78864
132.00	1292	221.00	44368	313.00	529	442.00	524544
133.00	294	222.00	3747	314.00	2794	443.00	100584
134.00	4456	223.00	13246	315.00	6151	444.00	8790
135.00	13884	224.00	120016	316.00	3191	445.00	408
136.00	5226	225.00	30616	317.00	704		
137.00	6847	226.00	2965	319.00	55		

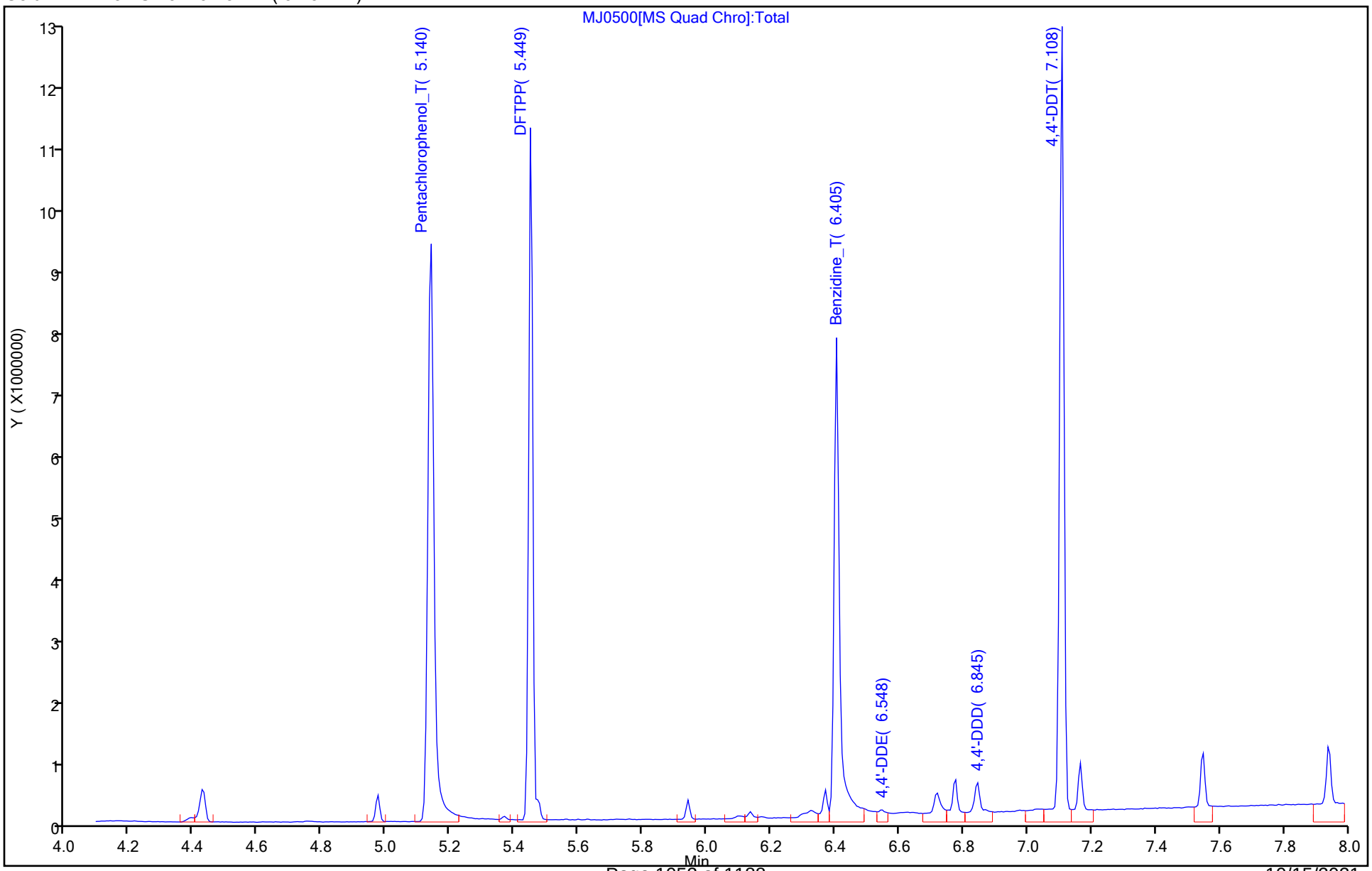
Report Date: 07-Oct-2021 09:25:32 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D

Injection Date:	07-Oct-2021 08:34:12	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)

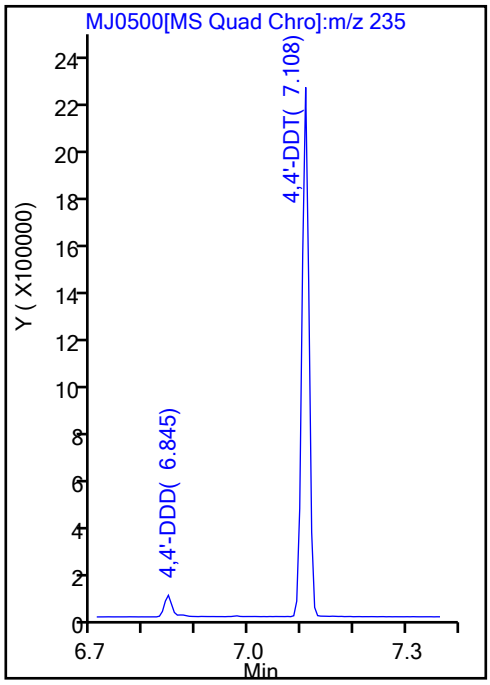


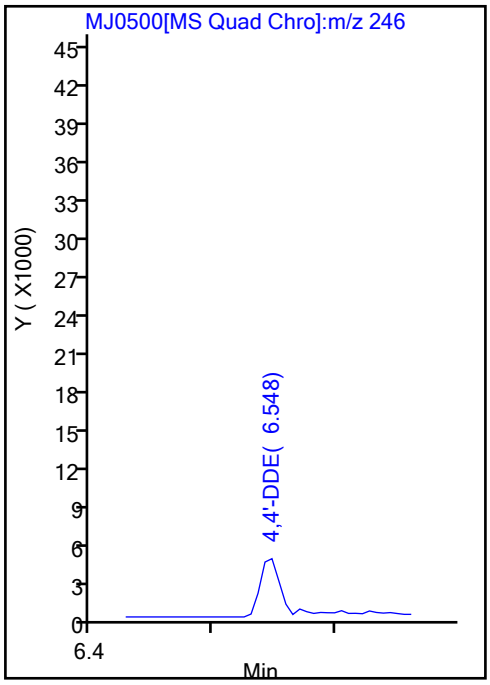
Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0500.D
Injection Date: 07-Oct-2021 08:34:12 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 = 2080399
47 4,4'-DDE, Area = 4868
48 4,4'-DDD, Area = 101308

%Breakdown: 4.86%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

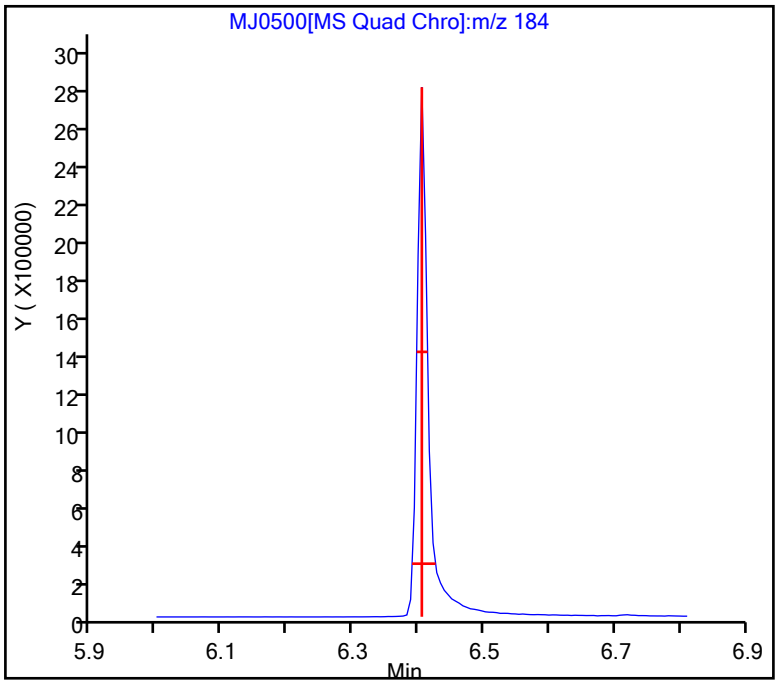
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Injection Date: 07-Oct-2021 08:34:12 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.40, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

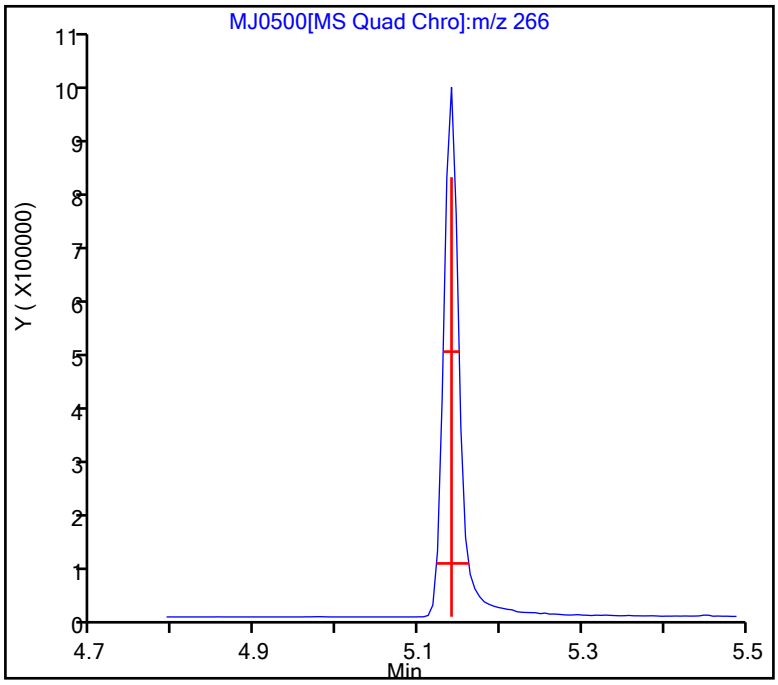
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Injection Date: 07-Oct-2021 08:34:12 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.17, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Oct-2021 05:52:38 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041033-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 06:57:35 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 06:57:35

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	5.111	5.111	0.000	0	1172831	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.359	6.359	0.000	0	3342686	NR	NR	
47 4,4'-DDE	246	6.490	6.490	0.000	0	12084		NR	
48 4,4'-DDD	235	6.776	6.776	0.000	0	42462		NR	
49 4,4'-DDT	235	7.028	7.028	0.000	0	2172951	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

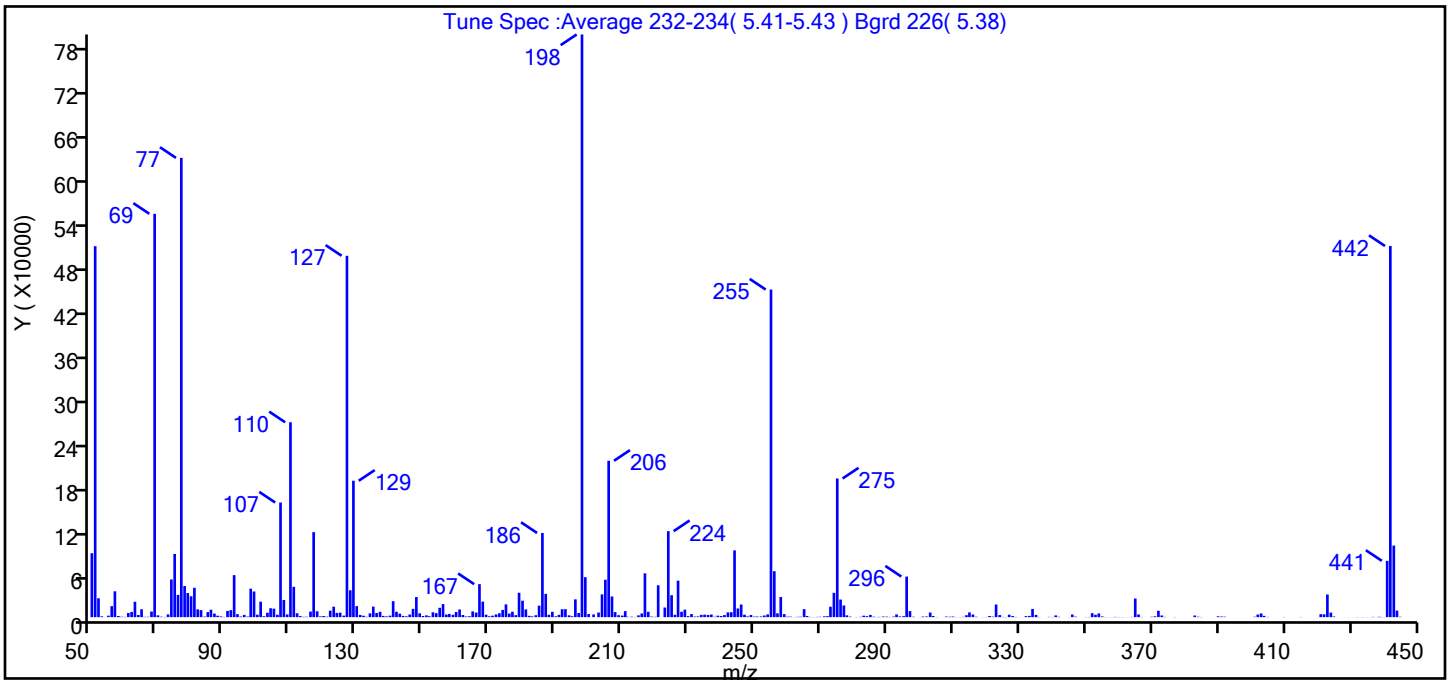
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D
Injection Date: 08-Oct-2021 05:52:38 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 (157.0)
51	10-80% of the base peak	63.7
68	<2% of mass 69	1.0 (1.4)
69	Present	69.2
70	<2% of mass 69	0.3 (0.4)
127	10-80% of the base peak	62.0
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.9
275	10-60% of the base peak	23.8
365	>1% of mass 198	3.2
441	present but <24% of mass 442	9.7 (15.2)
442	base peak, or >50% of 198	63.7
443	15-24% of mass 442	12.3 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Oct-2021 05:52:38
Spectrum: Tune Spec :Average 232-234(5.41-5.43) Bgrd 226(5.38)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	87520	139.00	1039	230.00	1398	322.00	698
51.00	507712	140.00	2041	231.00	4234	323.00	17272
52.00	25848	141.00	21832	232.00	796	324.00	2852
53.00	1118	142.00	7414	233.00	1019	325.00	323
54.00	76	143.00	4779	234.00	3106	326.00	220
55.00	2027	144.00	1708	235.00	3400	327.00	3324
56.00	15029	145.00	1124	236.00	2986	328.00	1521
57.00	35392	146.00	3581	237.00	3596	329.00	336
58.00	1607	147.00	11332	238.00	481	330.00	51
59.00	576	148.00	27512	239.00	1996	331.00	56
60.00	374	149.00	5247	240.00	1610	332.00	1374
61.00	5668	150.00	1612	241.00	2873	333.00	1707
62.00	7096	151.00	2451	242.00	6551	334.00	11212
63.00	21096	152.00	1253	243.00	6709	335.00	3044
64.00	2914	153.00	6634	244.00	91400	336.00	252
65.00	10761	154.00	5492	245.00	11906	339.00	363
66.00	440	155.00	12800	246.00	17304	340.00	278
67.00	521	156.00	17880	247.00	3340	341.00	2390
68.00	7686	157.00	3514	248.00	1023	342.00	500
69.00	552064	158.00	4419	249.00	2897	343.00	53
70.00	2428	159.00	3215	250.00	720	345.00	123
71.00	619	160.00	7021	251.00	837	346.00	3571
72.00	280	161.00	10484	252.00	949	347.00	681
73.00	3755	162.00	2930	253.00	2262	350.00	181
74.00	51552	163.00	913	254.00	3771	351.00	255
75.00	86488	164.00	1223	255.00	448384	352.00	5434
76.00	30512	165.00	7840	256.00	62864	353.00	3208
77.00	628608	166.00	6336	257.00	5205	354.00	5066
78.00	42584	167.00	45160	258.00	27520	355.00	955
79.00	33008	168.00	21240	259.00	4151	356.00	229
80.00	28568	169.00	3284	260.00	681	357.00	122
81.00	40192	170.00	1227	261.00	688	358.00	177
82.00	10643	171.00	2009	262.00	136	359.00	377

Report Date: 08-Oct-2021 06:57:35 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Oct-2021 05:52:38
Spectrum: Tune Spec :Average 232-234(5.41-5.43) Bgrd 226(5.38)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	9630	172.00	3708	263.00	425	360.00	211
84.00	780	173.00	5248	264.00	617	361.00	192
85.00	6898	174.00	9867	265.00	10927	362.00	68
86.00	10180	175.00	17480	266.00	1546	363.00	68
87.00	4894	176.00	4833	267.00	324	364.00	326
88.00	1939	177.00	7423	268.00	161	365.00	25488
89.00	1013	178.00	2736	269.00	357	366.00	3653
90.00	310	179.00	33376	270.00	462	367.00	257
91.00	8466	180.00	22488	271.00	1128	370.00	497
92.00	9591	181.00	10588	272.00	1323	371.00	1186
93.00	57512	182.00	1800	273.00	14231	372.00	8713
94.00	4121	183.00	1100	274.00	33312	373.00	2277
95.00	867	184.00	2643	275.00	189760	374.00	368
96.00	3095	185.00	15711	276.00	24080	377.00	228
97.00	783	186.00	115216	277.00	15995	383.00	2242
98.00	38976	187.00	31848	278.00	2485	384.00	607
99.00	35088	188.00	3192	279.00	746	385.00	225
100.00	3307	189.00	7331	281.00	262	390.00	1158
101.00	21176	190.00	1175	282.00	454	391.00	811
102.00	1305	191.00	3163	283.00	1978	392.00	575
103.00	6037	192.00	10845	284.00	1358	395.00	52
104.00	12178	193.00	10962	285.00	3063	397.00	54
105.00	11627	194.00	2501	286.00	615	401.00	539
106.00	3245	195.00	1201	287.00	246	402.00	3551
107.00	156864	196.00	24336	288.00	350	403.00	5054
108.00	23464	197.00	5632	289.00	831	404.00	1776
109.00	3703	198.00	797504	290.00	697	405.00	326
110.00	266752	199.00	54664	291.00	290	410.00	227
111.00	41512	200.00	4253	292.00	790	415.00	239
112.00	5355	201.00	3657	293.00	3698	416.00	58
113.00	1491	203.00	6296	294.00	999	420.00	85
114.00	445	204.00	31144	295.00	1331	421.00	4066
115.00	568	205.00	51240	296.00	55520	422.00	3837
116.00	7645	206.00	214016	297.00	8230	423.00	30968

Report Date: 08-Oct-2021 06:57:35 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Oct-2021 05:52:38
Spectrum: Tune Spec :Average 232-234(5.41-5.43) Bgrd 226(5.38)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 353

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	116352	207.00	28312	298.00	544	424.00	6220
118.00	8031	208.00	6915	300.00	136	425.00	849
119.00	1039	209.00	2708	301.00	826	428.00	60
120.00	1539	210.00	2143	302.00	900	429.00	106
121.00	707	211.00	8201	303.00	6299	431.00	60
122.00	8815	212.00	564	304.00	1571	432.00	200
123.00	14312	213.00	627	305.00	229	433.00	67
124.00	5816	214.00	306	306.00	51	434.00	167
125.00	6111	215.00	2450	307.00	52	435.00	139
126.00	2096	216.00	5039	308.00	788	436.00	114
127.00	494592	217.00	59992	309.00	591	437.00	383
128.00	36752	218.00	7310	310.00	848	438.00	389
129.00	186688	219.00	747	311.00	224	439.00	402
130.00	15102	220.00	452	312.00	234	440.00	182
131.00	3027	221.00	43640	313.00	427	441.00	77032
132.00	1927	223.00	13163	314.00	2652	442.00	507968
133.00	518	224.00	117688	315.00	6490	443.00	98008
134.00	5162	225.00	30032	316.00	3598	444.00	8972
135.00	14407	226.00	3215	317.00	568	445.00	490
136.00	5700	227.00	49928	319.00	115		
137.00	7321	228.00	7346	320.00	242		
138.00	1699	229.00	10248	321.00	1581		

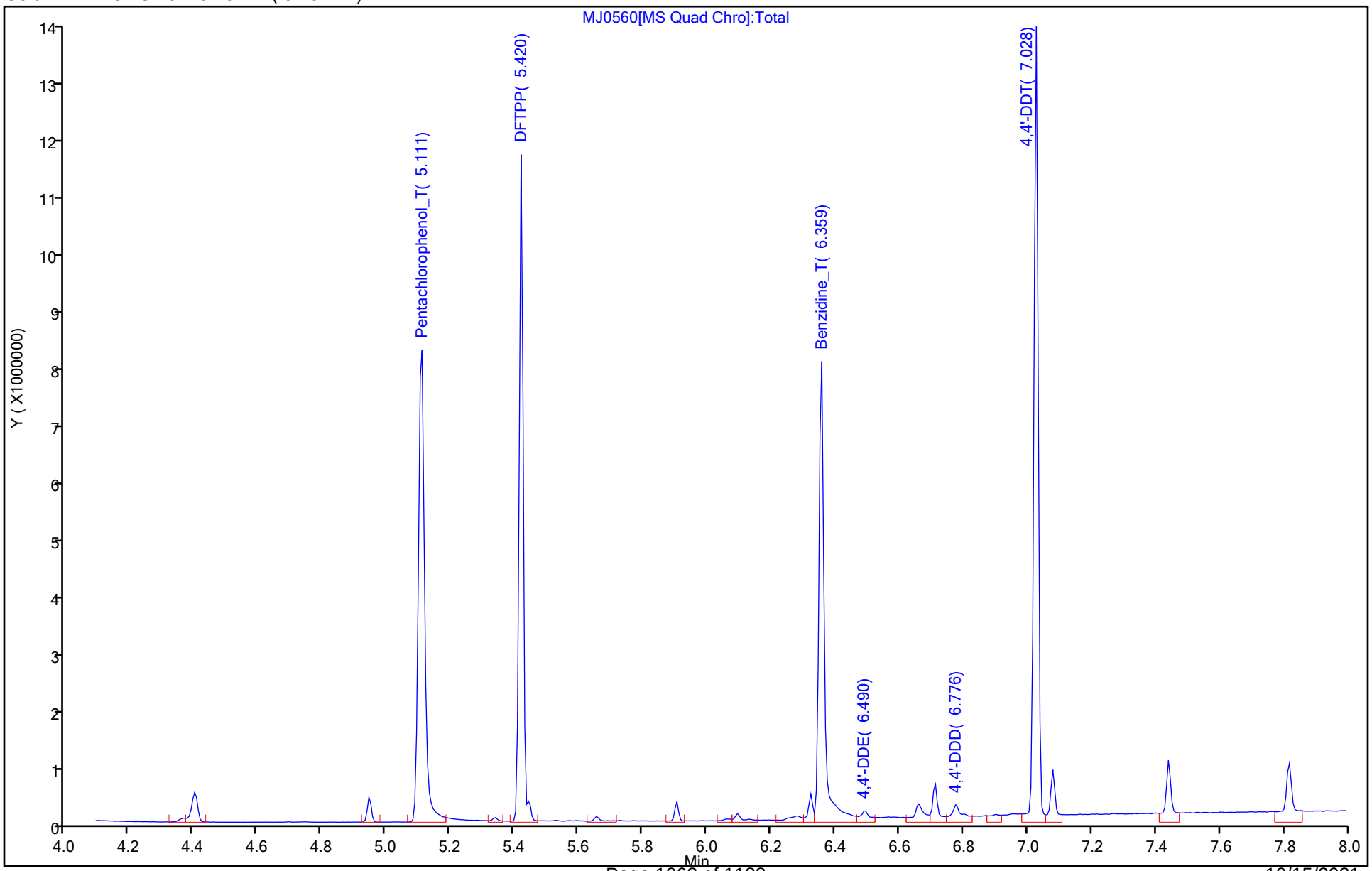
Report Date: 08-Oct-2021 06:57:35 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D

Injection Date:	08-Oct-2021 05:52:38	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\20211008-41033.b\MJ0560.D
Injection Date: 08-Oct-2021 05:52:38 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

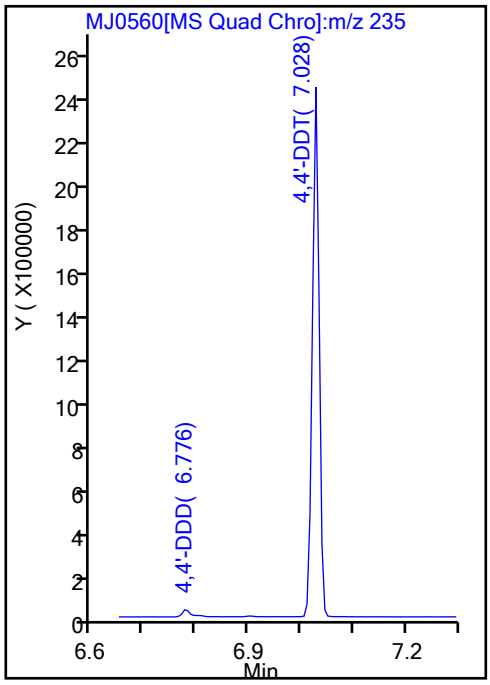
49 4,4'-DDT, Detector: MS Quad

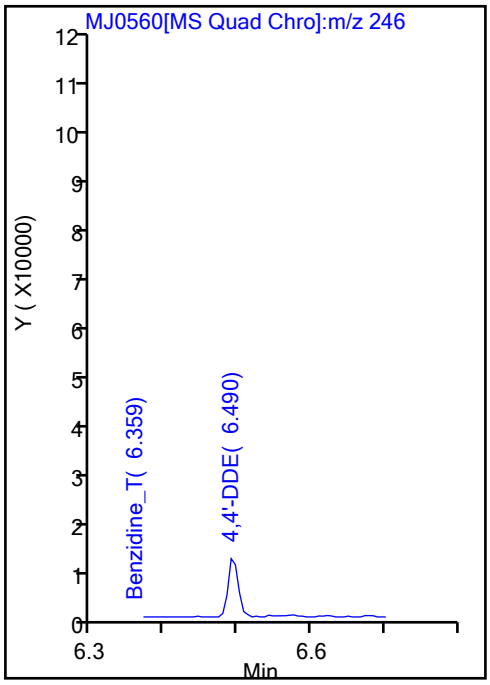
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2172951
47 4,4'-DDE, Area = 12084
48 4,4'-DDD, Area = 42462

%Breakdown: 2.45%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

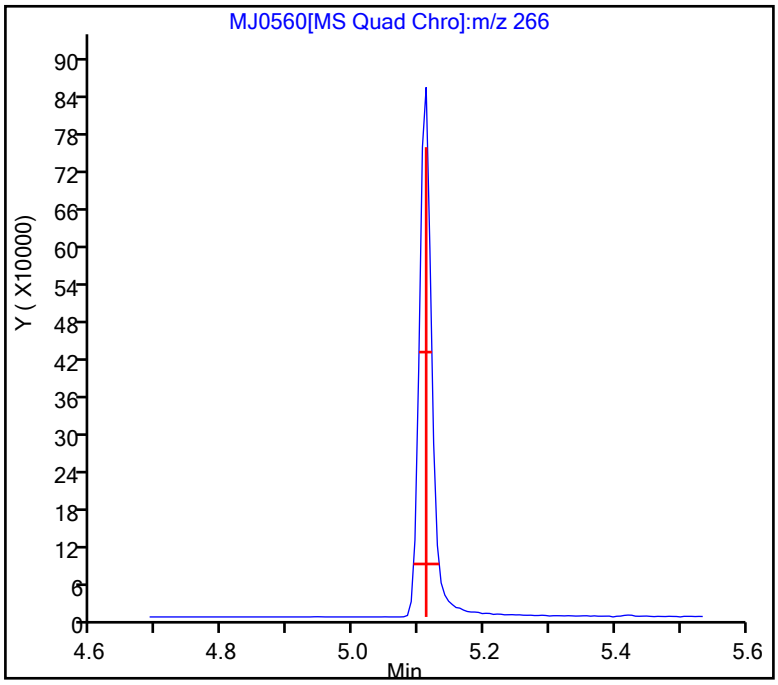
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D
Injection Date: 08-Oct-2021 05:52:38 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.05, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

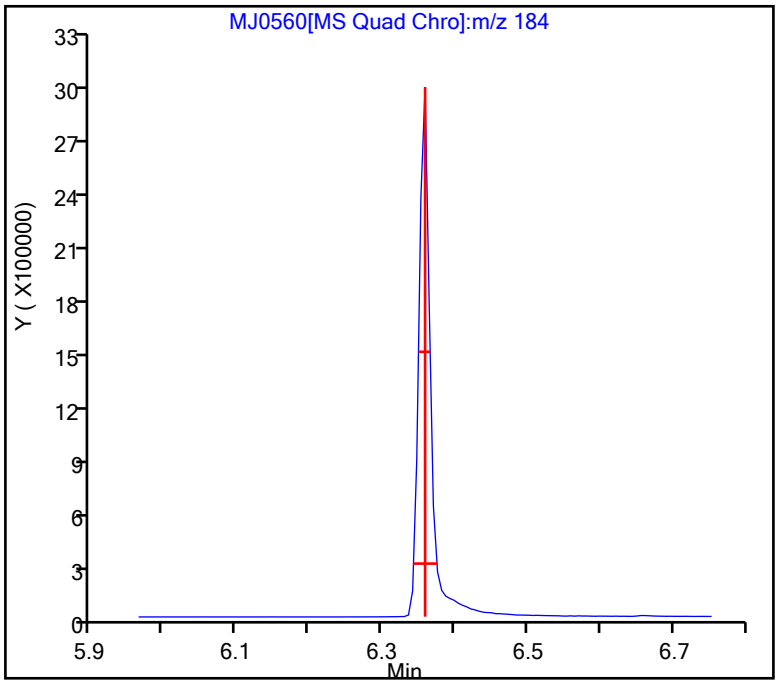
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211008-41033.b\MJ0560.D
Injection Date: 08-Oct-2021 05:52:38 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.00, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Oct-2021 20:49:01 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041033-001
Operator ID: whs02991 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Oct-2021 23:00:21 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: saadehw Date: 09-Oct-2021 21:06:04

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	5.123	5.123	0.000	0	992171	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.376	6.376	0.000	0	2744715	NR	NR	
47 4,4'-DDE	246	6.513	6.513	0.000	0	3265		NR	
48 4,4'-DDD	235	6.805	6.805	0.000	0	11658		NR	
49 4,4'-DDT	235	7.057	7.057	0.000	0	1750100	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

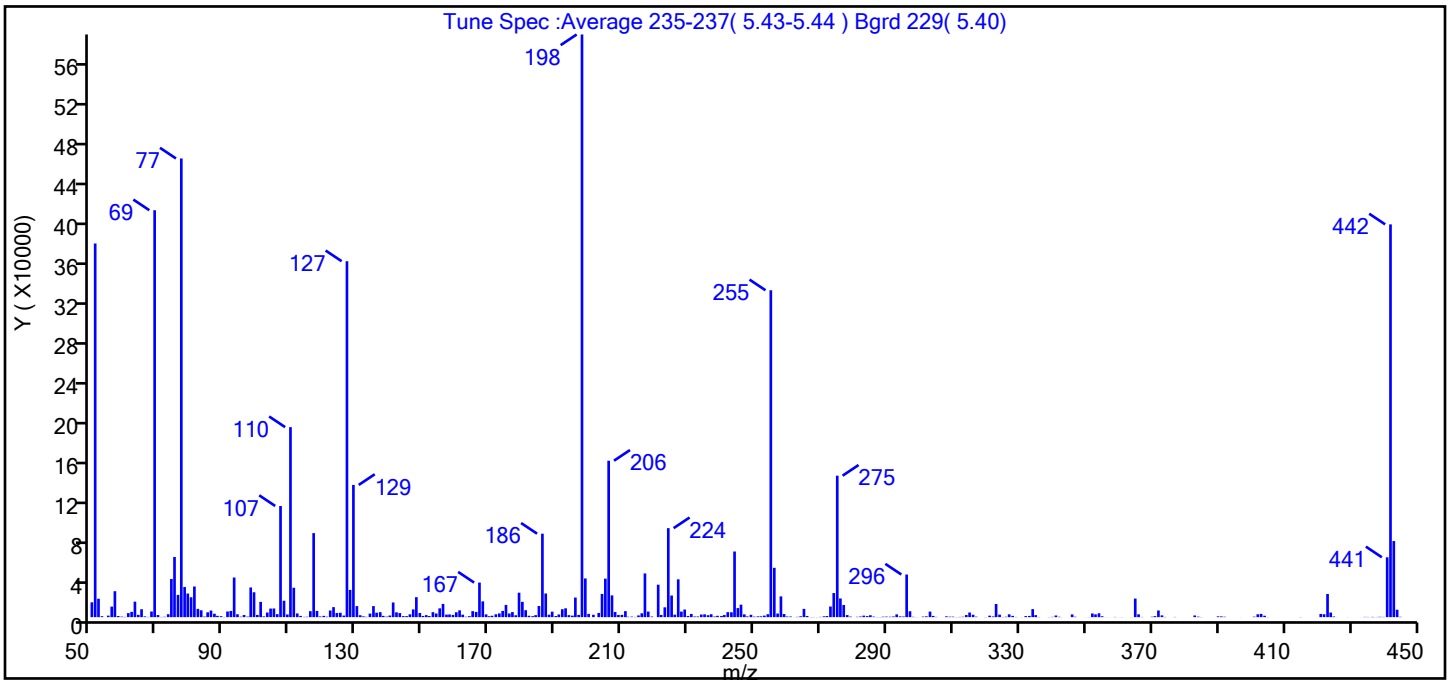
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D
Injection Date: 09-Oct-2021 20:49:01 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 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 (148.3)
51	10-80% of the base peak	64.1
68	<2% of mass 69	1.0 (1.4)
69	Present	69.8
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	61.1
197	<2% of mass 198	0.4
199	5-9% of mass 198	6.6
275	10-60% of the base peak	24.3
365	>1% of mass 198	3.2
441	present but <24% of mass 442	10.3 (15.2)
442	base peak, or >50% of 198	67.4
443	15-24% of mass 442	13.1 (19.4)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D\8270_SIM_HP21585.rslt\spectr
Injection Date: 09-Oct-2021 20:49:01
Spectrum: Tune Spec :Average 235-237(5.43-5.44) Bgrd 229(5.40)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	14917	136.00	4444	223.00	9859	312.00	231
51.00	375296	137.00	5005	224.00	89392	313.00	408
52.00	18480	138.00	1293	225.00	21704	314.00	2114
53.00	946	139.00	533	226.00	2485	315.00	4649
55.00	1525	140.00	1621	227.00	37968	316.00	2417
56.00	10581	141.00	14738	228.00	5593	317.00	455
57.00	26048	142.00	4845	229.00	7658	320.00	146
58.00	1134	143.00	4109	230.00	1214	321.00	1470
59.00	516	144.00	1027	231.00	3217	322.00	710
60.00	257	145.00	1014	232.00	630	323.00	13216
61.00	4033	146.00	2819	233.00	663	324.00	2512
62.00	5305	147.00	7773	234.00	2609	325.00	187
63.00	15573	148.00	20064	235.00	2834	326.00	412
64.00	2287	149.00	4174	236.00	1932	327.00	2810
65.00	7950	150.00	1210	237.00	2924	328.00	1260
66.00	755	151.00	2020	238.00	592	329.00	193
67.00	232	152.00	1108	239.00	1347	331.00	59
68.00	5654	153.00	5015	240.00	1189	332.00	1066
69.00	408704	154.00	3689	241.00	2119	333.00	1235
70.00	2102	155.00	8836	242.00	5007	334.00	8077
71.00	219	156.00	13294	243.00	4893	335.00	2004
72.00	377	157.00	2554	244.00	65928	336.00	188
73.00	2929	158.00	2718	245.00	9112	339.00	147
74.00	38320	159.00	2232	246.00	12556	340.00	281
75.00	60432	160.00	4907	247.00	2775	341.00	1648
76.00	22344	161.00	6832	248.00	726	342.00	369
77.00	460672	162.00	2468	249.00	2360	343.00	66
78.00	30256	163.00	393	250.00	479	346.00	2711
79.00	23720	164.00	988	251.00	770	347.00	418
80.00	19976	165.00	6037	252.00	822	350.00	56
81.00	30784	166.00	5254	253.00	1526	351.00	114
82.00	8309	167.00	34720	254.00	2937	352.00	3692
83.00	6904	168.00	15846	255.00	328320	353.00	2806

Report Date: 09-Oct-2021 23:00:21 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D\8270_SIM_HP21585.rslt\spectr
Injection Date: 09-Oct-2021 20:49:01
Spectrum: Tune Spec :Average 235-237(5.43-5.44) Bgrd 229(5.40)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	570	169.00	2773	256.00	49528	354.00	3882
85.00	4847	170.00	932	257.00	3614	355.00	898
86.00	6631	171.00	1397	258.00	20848	356.00	66
87.00	3407	172.00	2886	259.00	3115	357.00	52
88.00	1307	173.00	3729	260.00	653	359.00	206
89.00	967	174.00	6248	261.00	631	360.00	61
90.00	187	175.00	12271	262.00	53	361.00	128
91.00	5662	176.00	3635	263.00	296	364.00	83
92.00	6209	177.00	5096	264.00	845	365.00	18664
93.00	39808	178.00	1886	265.00	8316	366.00	2849
94.00	2876	179.00	24560	266.00	1158	367.00	211
95.00	448	180.00	15353	267.00	111	370.00	403
96.00	2130	181.00	6979	268.00	173	371.00	996
97.00	519	182.00	1395	269.00	125	372.00	6685
98.00	29816	183.00	985	270.00	257	373.00	1778
99.00	24984	184.00	2000	271.00	821	374.00	237
100.00	2226	185.00	11197	272.00	1081	377.00	210
101.00	15310	186.00	83824	273.00	10673	383.00	1687
102.00	770	187.00	23760	274.00	24200	384.00	520
103.00	4629	188.00	2420	275.00	142080	385.00	144
104.00	8600	189.00	5523	276.00	18760	390.00	806
105.00	8716	190.00	1131	277.00	12215	391.00	753
106.00	3007	191.00	2663	278.00	2079	392.00	395
107.00	111648	192.00	7963	279.00	561	397.00	53
108.00	16504	193.00	8881	281.00	353	401.00	492
109.00	2673	194.00	2029	282.00	622	402.00	2865
110.00	190848	195.00	1493	283.00	1528	403.00	3296
111.00	29520	196.00	19680	284.00	1039	404.00	1397
112.00	3715	197.00	2218	285.00	1922	405.00	138
113.00	1250	198.00	585216	286.00	527	415.00	155
114.00	276	199.00	38856	287.00	152	421.00	3192
115.00	389	200.00	3279	288.00	147	422.00	2904
116.00	5996	201.00	2381	289.00	465	423.00	23256
117.00	84392	203.00	4186	290.00	525	424.00	4620

Report Date: 09-Oct-2021 23:00:22 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D\8270_SIM_HP21585.rslt\spectr
Injection Date: 09-Oct-2021 20:49:01
Spectrum: Tune Spec :Average 235-237(5.43-5.44) Bgrd 229(5.40)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	6223	204.00	23328	291.00	412	425.00	642
119.00	702	205.00	38640	292.00	672	426.00	51
120.00	1296	206.00	157120	293.00	2774	429.00	51
121.00	474	207.00	21864	294.00	769	433.00	54
122.00	6662	208.00	5186	295.00	621	434.00	252
123.00	10061	209.00	2187	296.00	42808	435.00	201
124.00	4135	210.00	2277	297.00	5910	436.00	260
125.00	4381	211.00	6029	298.00	348	437.00	121
126.00	1581	212.00	409	299.00	91	438.00	221
127.00	357504	213.00	527	301.00	541	439.00	339
128.00	27368	214.00	230	302.00	818	440.00	244
129.00	132800	215.00	1708	303.00	5565	441.00	60120
130.00	11091	216.00	3861	304.00	1235	442.00	394496
131.00	1922	217.00	43904	305.00	242	443.00	76432
132.00	765	218.00	5571	308.00	817	444.00	7467
133.00	348	219.00	617	309.00	458	445.00	342
134.00	3581	221.00	32608	310.00	496		
135.00	11100	222.00	2156	311.00	137		

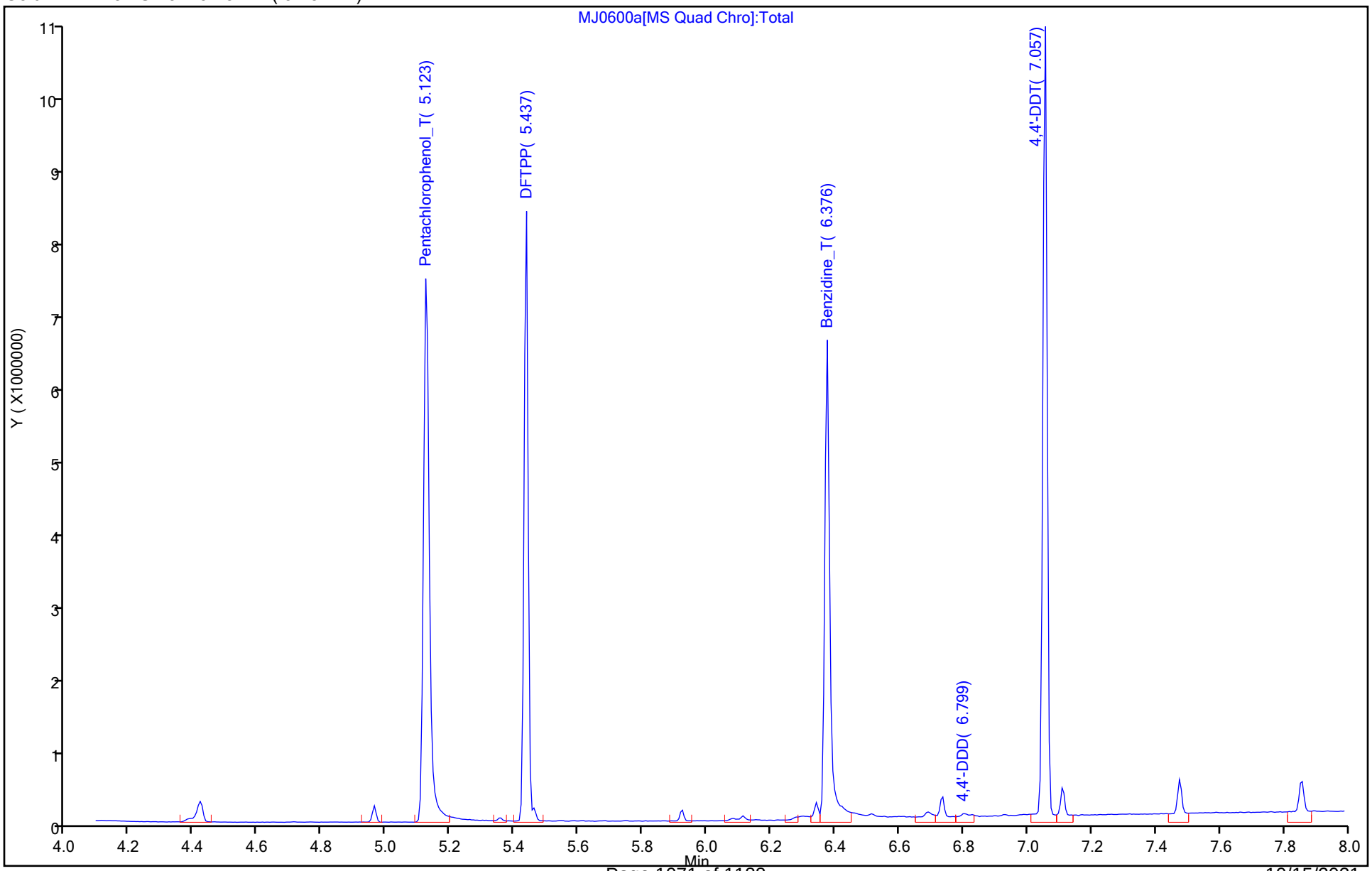
Report Date: 09-Oct-2021 23:00:22 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D

Injection Date:	09-Oct-2021 20:49:01	Instrument ID:	HP21585	Operator ID:	whs02991
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)

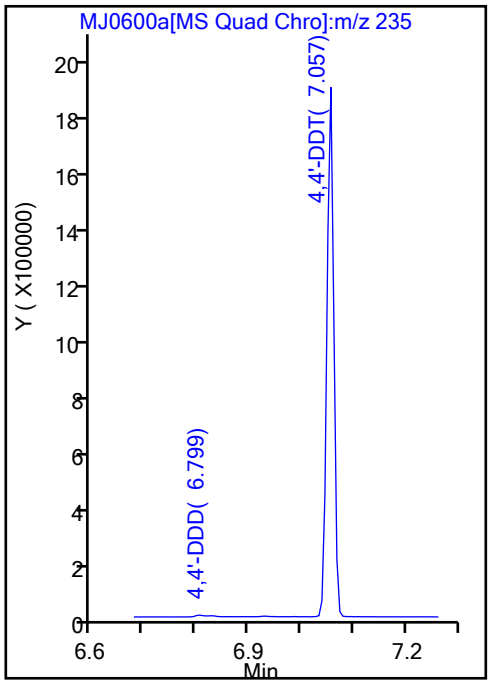


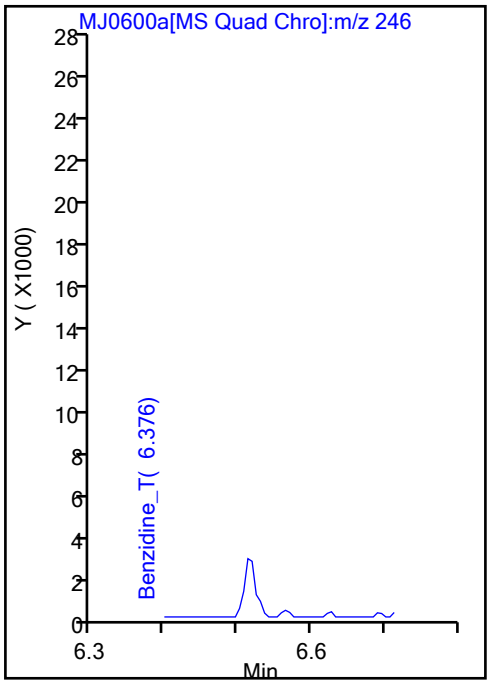
Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D
Injection Date: 09-Oct-2021 20:49:01 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 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 = 1750100
47 4,4'-DDE, Area = 3265
48 4,4'-DDD, Area = 11658

%Breakdown: 0.85%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

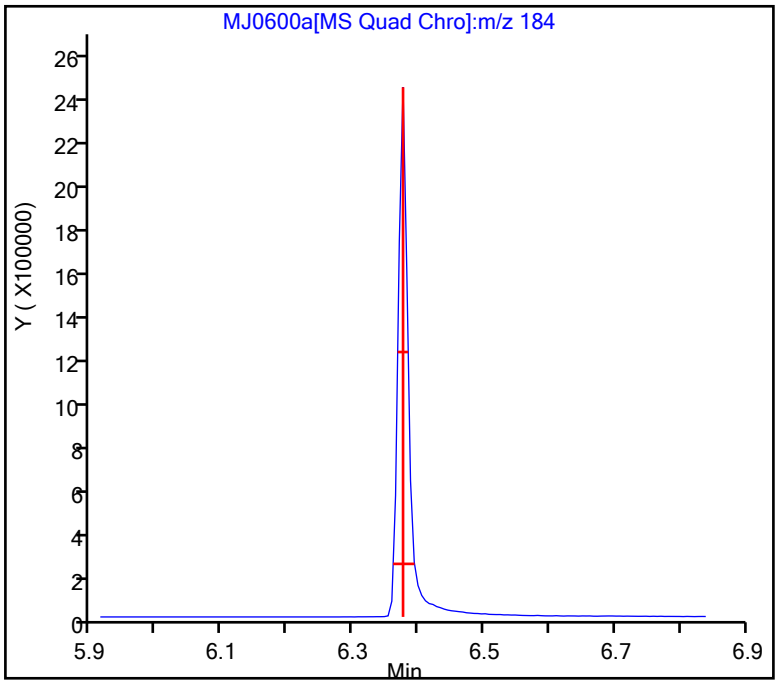
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D
Injection Date: 09-Oct-2021 20:49:01 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.20, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

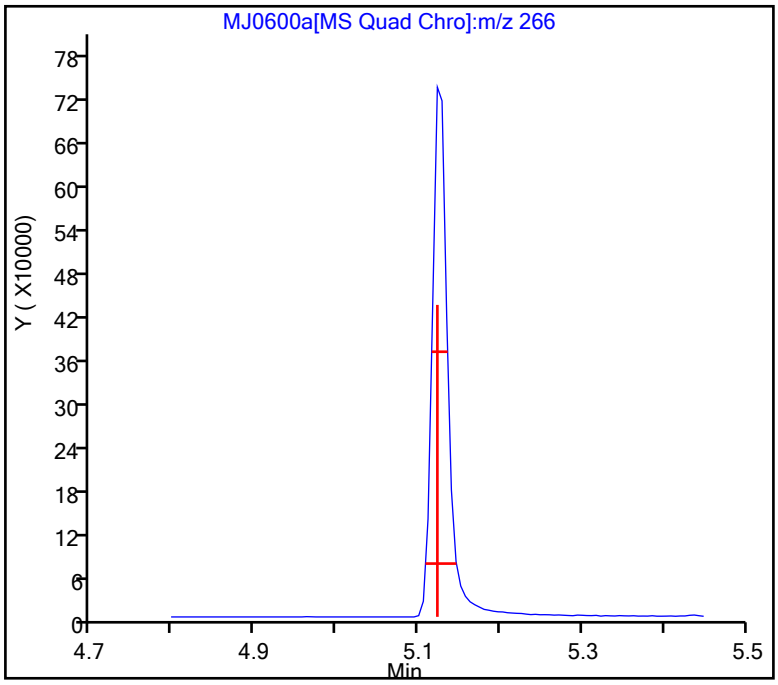
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211009-41150.b\MJ0600a.D
Injection Date: 09-Oct-2021 20:49:01 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.53, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 12-Oct-2021 08:13:32 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041301-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 12-Oct-2021 17:46:51 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: luttek Date: 12-Oct-2021 17:46:03

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	5.123	5.123	0.000	0	1063338	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.376	6.376	0.000	0	3182847	NR	NR	
47 4,4'-DDE	246	6.513	6.513	0.000	0	4234		NR	
48 4,4'-DDD	235	6.799	6.799	0.000	0	44945		NR	
49 4,4'-DDT	235	7.051	7.051	0.000	0	1792131	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

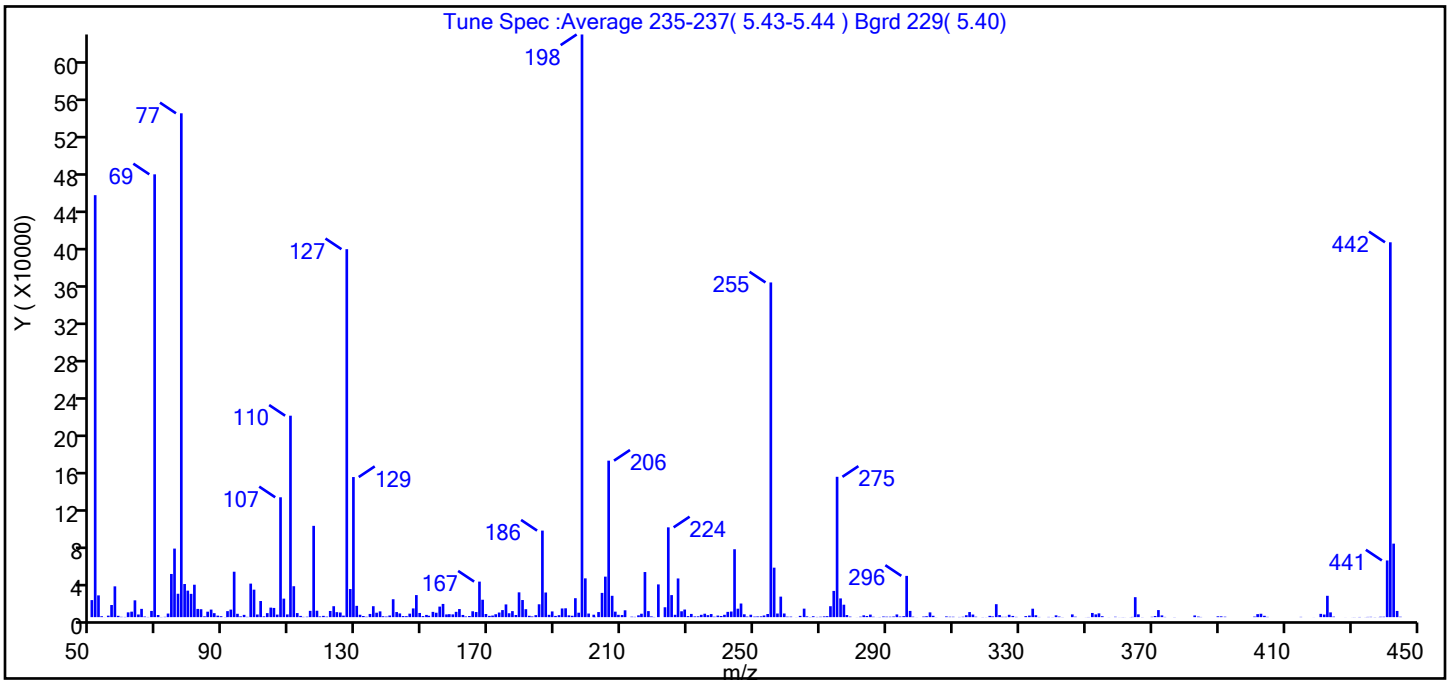
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D
Injection Date: 12-Oct-2021 08:13:32 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 (155.4)
51	10-80% of the base peak	72.4
68	<2% of mass 69	1.1 (1.4)
69	Present	76.0
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	63.2
197	<2% of mass 198	0.8
199	5-9% of mass 198	6.7
275	10-60% of the base peak	24.1
365	>1% of mass 198	3.4
441	present but <24% of mass 442	9.7 (15.1)
442	base peak, or >50% of 198	64.3
443	15-24% of mass 442	12.6 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 12-Oct-2021 08:13:32
Spectrum: Tune Spec :Average 235-237(5.43-5.44) Bgrd 229(5.40)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	18184	135.00	11663	221.00	34912	313.00	436
51.00	449920	136.00	4717	223.00	10529	314.00	2023
52.00	23216	137.00	6169	224.00	95744	315.00	5419
53.00	973	138.00	963	225.00	23504	316.00	2783
54.00	54	139.00	617	226.00	2501	317.00	478
55.00	1587	140.00	1746	227.00	41248	319.00	138
56.00	12929	141.00	19104	228.00	6251	320.00	86
57.00	32840	142.00	5442	229.00	8113	321.00	1364
58.00	1414	143.00	3979	230.00	1092	322.00	744
59.00	342	144.00	1170	231.00	3426	323.00	13825
60.00	225	145.00	1039	232.00	757	324.00	2228
61.00	5099	146.00	3725	233.00	868	325.00	333
62.00	5852	147.00	9302	234.00	2490	326.00	354
63.00	17928	148.00	23520	235.00	3644	327.00	2509
64.00	2827	149.00	4465	236.00	2092	328.00	1288
65.00	8822	150.00	1137	237.00	3312	329.00	274
66.00	620	151.00	2382	238.00	473	332.00	1106
67.00	204	152.00	1502	239.00	1679	333.00	1666
68.00	6632	153.00	5616	240.00	1228	334.00	8996
69.00	472128	154.00	4699	241.00	2497	335.00	2004
70.00	2258	155.00	11249	242.00	5624	336.00	221
71.00	180	156.00	14088	243.00	5997	339.00	244
72.00	333	157.00	2918	244.00	72408	340.00	117
73.00	3835	158.00	3164	245.00	9013	341.00	1917
74.00	46032	159.00	2960	246.00	14534	342.00	620
75.00	73096	160.00	5656	247.00	3050	343.00	131
76.00	24936	161.00	8637	248.00	614	346.00	2922
77.00	537216	162.00	2336	249.00	2589	347.00	494
78.00	35320	163.00	707	250.00	574	350.00	72
79.00	28248	164.00	1212	251.00	774	351.00	176
80.00	24840	165.00	6255	252.00	822	352.00	4463
81.00	34576	166.00	5433	253.00	1778	353.00	2944
82.00	8765	167.00	37896	254.00	3348	354.00	4050

Report Date: 12-Oct-2021 17:46:52 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 12-Oct-2021 08:13:32
Spectrum: Tune Spec :Average 235-237(5.43-5.44) Bgrd 229(5.40)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	8448	168.00	18560	255.00	356864	355.00	994
84.00	830	169.00	3334	256.00	52752	357.00	62
85.00	5817	170.00	1358	257.00	3869	359.00	423
86.00	8063	171.00	1692	258.00	21872	360.00	64
87.00	4236	172.00	3099	259.00	3897	361.00	115
88.00	1604	173.00	4909	260.00	542	362.00	67
89.00	1001	174.00	7534	261.00	561	364.00	130
90.00	122	175.00	13575	263.00	74	364.00	244
91.00	6413	176.00	4149	264.00	1339	365.00	21288
92.00	8037	177.00	6403	265.00	9066	366.00	2992
93.00	48432	178.00	2289	266.00	826	367.00	125
94.00	3574	179.00	26440	267.00	171	370.00	370
95.00	818	180.00	18248	268.00	966	371.00	1195
96.00	2426	181.00	8475	269.00	237	372.00	7531
97.00	318	182.00	1456	270.00	439	373.00	1859
98.00	35752	183.00	742	271.00	805	374.00	233
99.00	29304	184.00	2105	272.00	1020	377.00	136
100.00	2824	185.00	13707	273.00	11664	383.00	1807
101.00	17192	186.00	92272	274.00	27968	384.00	615
102.00	855	187.00	26272	275.00	149632	385.00	208
103.00	4285	188.00	2463	276.00	19984	390.00	907
104.00	10160	189.00	6106	277.00	13266	391.00	861
105.00	9823	190.00	1320	278.00	2231	392.00	477
106.00	2731	191.00	2086	279.00	556	401.00	613
107.00	127800	192.00	9255	281.00	54	402.00	3196
108.00	19736	193.00	9437	282.00	473	403.00	3625
109.00	2904	194.00	1911	283.00	1940	404.00	1429
110.00	214784	195.00	1472	284.00	1203	405.00	286
111.00	32968	196.00	20208	285.00	2709	415.00	285
112.00	4333	197.00	4712	286.00	425	419.00	57
113.00	1338	198.00	621248	287.00	52	421.00	3493
114.00	296	199.00	41352	288.00	181	422.00	2797
115.00	457	200.00	3840	289.00	679	423.00	22760
116.00	6707	202.00	2584	290.00	497	424.00	5079

Report Date: 12-Oct-2021 17:46:52 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 12-Oct-2021 08:13:32
Spectrum: Tune Spec :Average 235-237(5.43-5.44) Bgrd 229(5.40)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	97336	202.00	388	291.00	462	425.00	552
118.00	6846	203.00	5425	292.00	692	428.00	51
119.00	738	204.00	25848	293.00	2890	431.00	56
120.00	1381	205.00	43184	294.00	630	431.00	107
121.00	557	206.00	166848	295.00	1052	433.00	63
122.00	6584	207.00	22760	296.00	44000	433.00	195
123.00	11661	208.00	5853	297.00	6648	434.00	93
124.00	5332	209.00	2475	298.00	530	435.00	262
125.00	4946	210.00	2196	299.00	69	436.00	331
126.00	1619	211.00	7305	301.00	637	437.00	146
127.00	392320	213.00	492	302.00	975	439.00	74
128.00	29976	214.00	309	303.00	5078	439.00	429
129.00	149376	215.00	1931	304.00	1446	440.00	440
130.00	12053	216.00	3647	305.00	85	441.00	60456
131.00	2551	217.00	48104	308.00	795	442.00	399680
132.00	1222	218.00	6451	309.00	444	443.00	78384
133.00	434	219.00	769	310.00	419	444.00	6614
134.00	3409	220.00	215	312.00	214	445.00	418

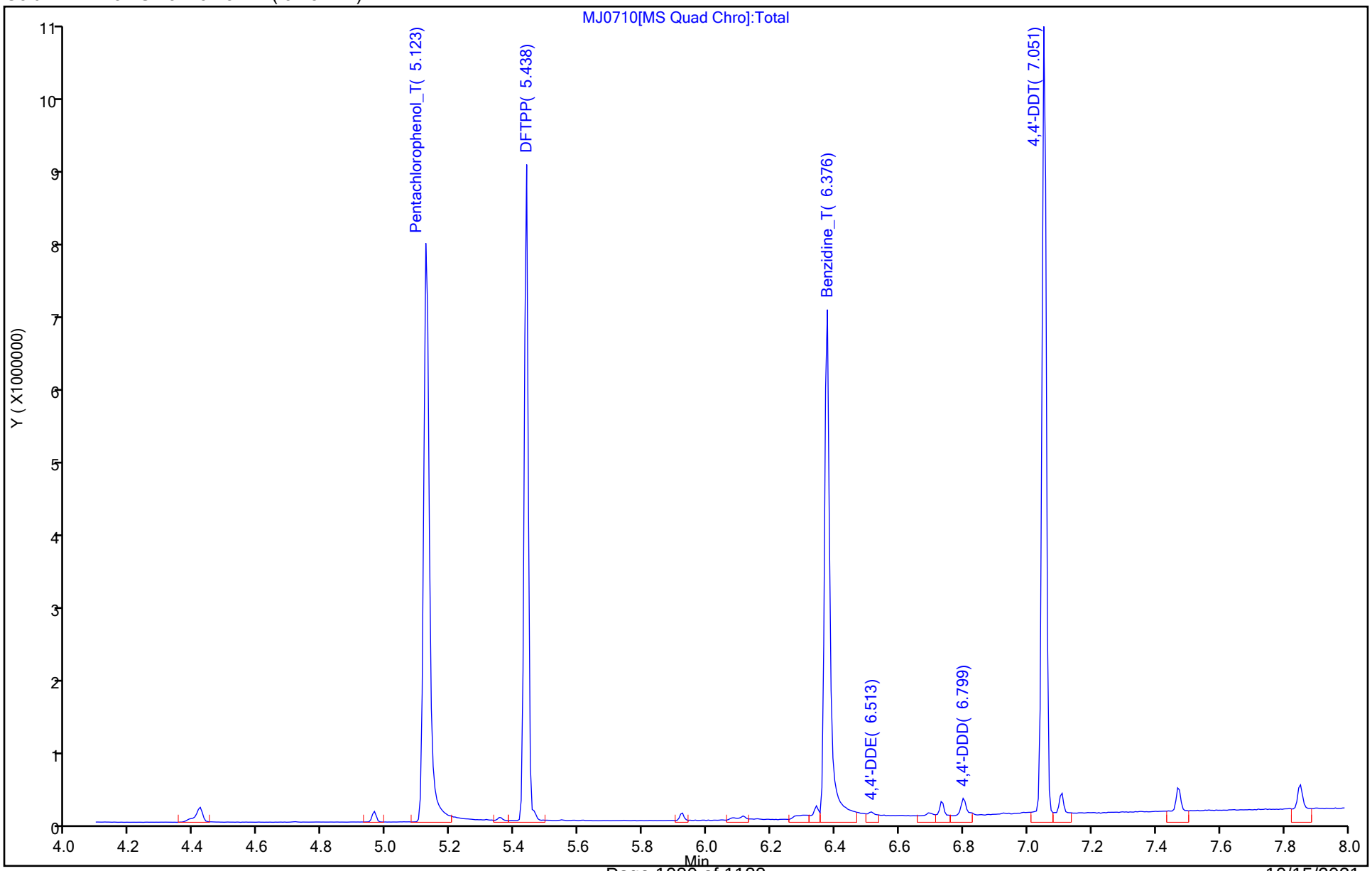
Report Date: 12-Oct-2021 17:46:52 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D

Injection Date:	12-Oct-2021 08:13:32	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\20211012-41301.b\MJ0710.D
Injection Date: 12-Oct-2021 08:13:32 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

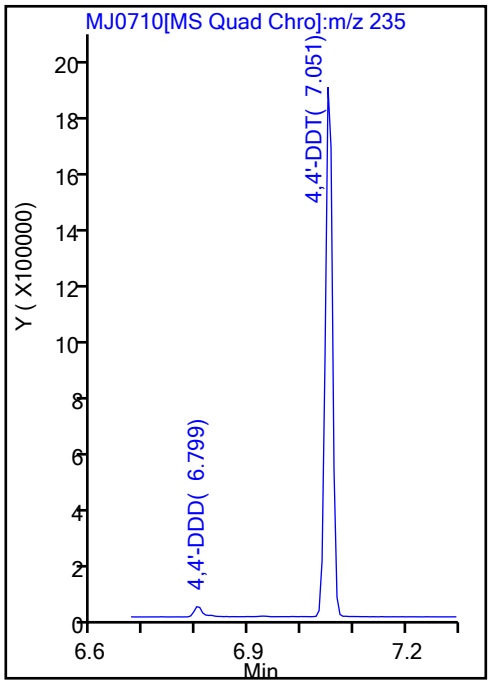
49 4,4'-DDT, Detector: MS Quad

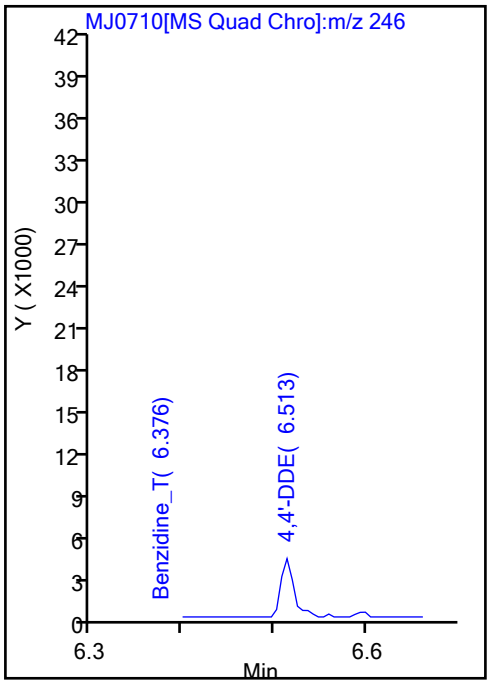
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1792131
47 4,4'-DDE, Area = 4234
48 4,4'-DDD, Area = 44945

%Breakdown: 2.67%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

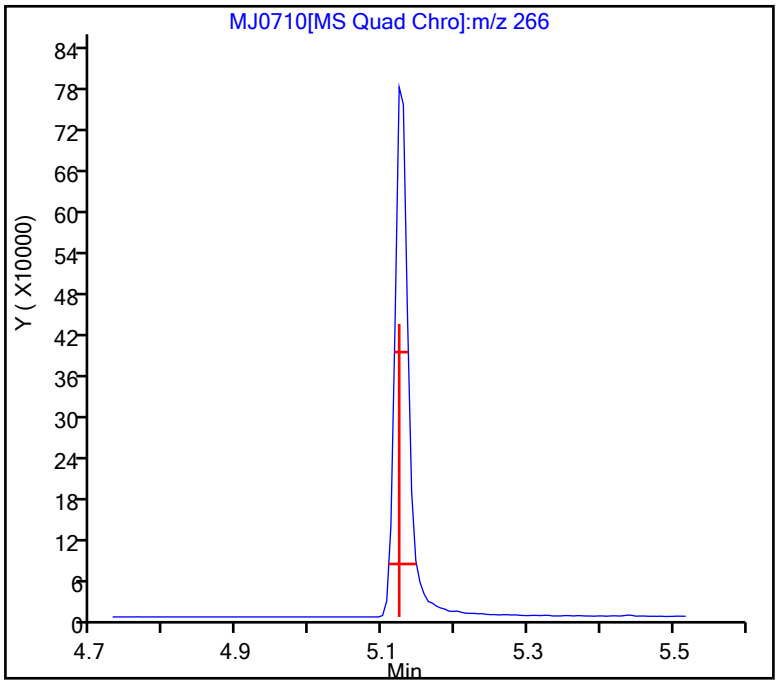
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D
Injection Date: 12-Oct-2021 08:13:32 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.71, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

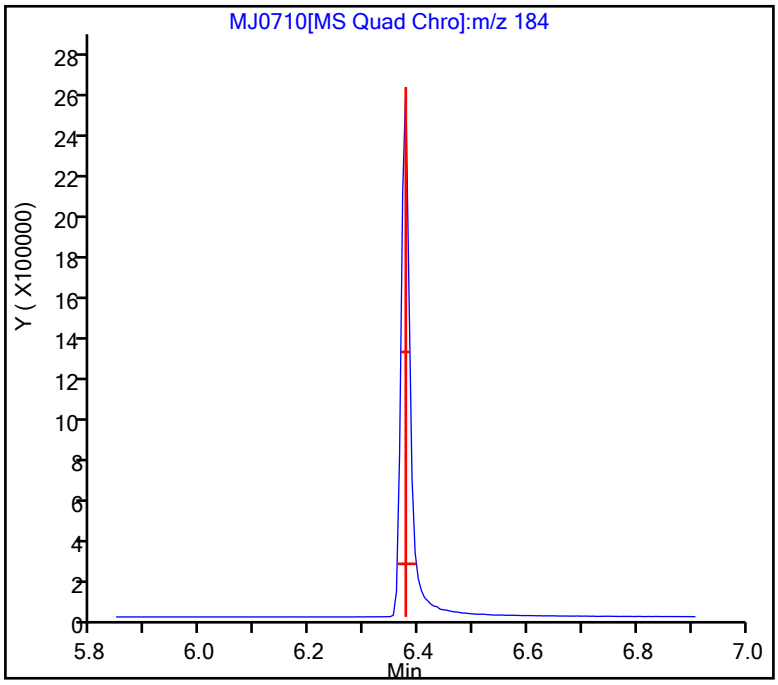
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0710.D
Injection Date: 12-Oct-2021 08:13:32 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.25, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Oct-2021 03:58:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041032-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 13:46:52 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1647

First Level Reviewer: gamblerj Date: 08-Oct-2021 04:51:48

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	4.530	4.530	0.000	85	1889812	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.818	5.818	0.000	98	5886340	NR	NR	
47 4,4'-DDE	246	5.974	5.974	0.000	77	14471		NR	
48 4,4'-DDD	235	6.251	6.251	0.000	93	75148		NR	
49 4,4'-DDT	235	6.511	6.511	0.000	89	6195846	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

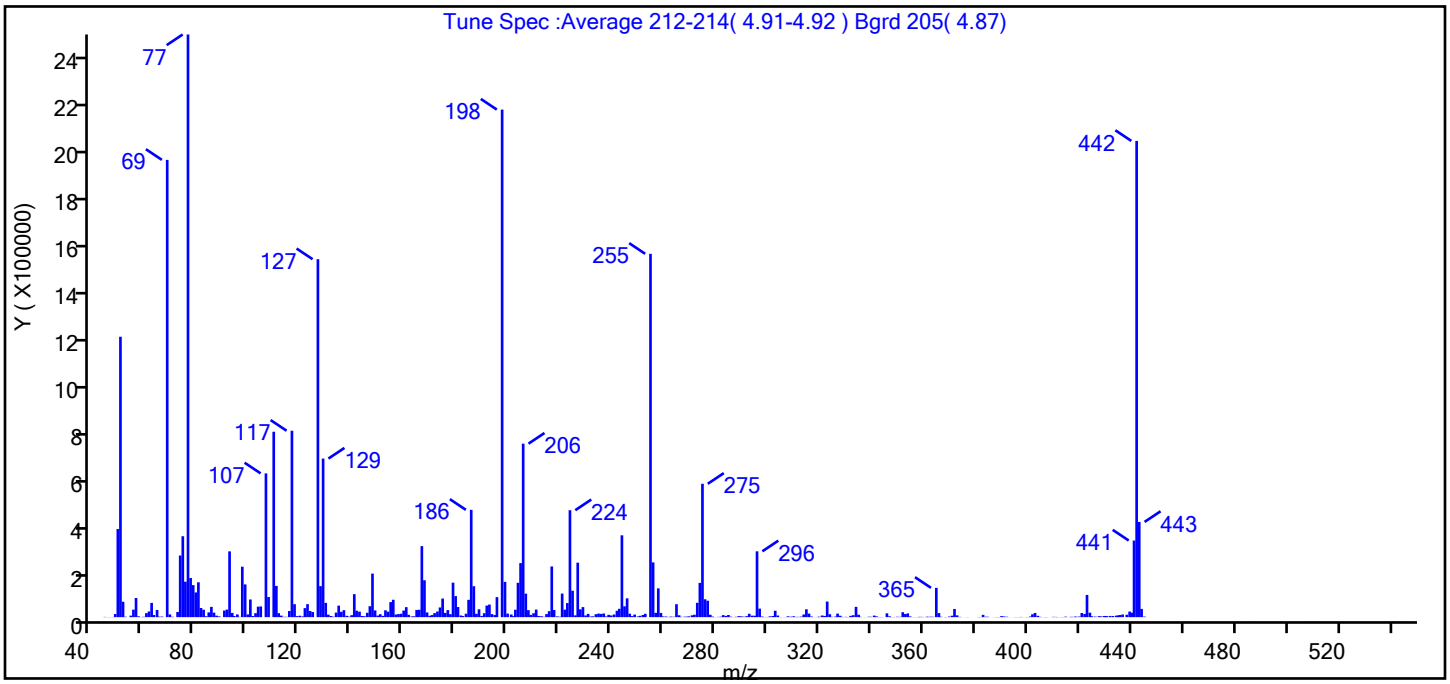
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D
Injection Date: 08-Oct-2021 03:58:30 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 (106.6)
51	10-80% of the base peak	55.2
68	<2% of mass 69	0.0 (0.0)
69	Present	90.1
70	<2% of mass 69	0.5 (0.6)
127	10-80% of the base peak	70.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	26.3
365	>1% of mass 198	5.8
441	present but <24% of mass 442	15.1 (16.1)
442	base peak, or >50% of 198	93.8
443	15-24% of mass 442	18.8 (20.0)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 08-Oct-2021 03:58:30
Spectrum: Tune Spec :Average 212-214(4.91-4.92) Bgrd 205(4.87)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 396

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	971	150.00	6655	250.00	2932	351.00	1250
46.00	342	151.00	12244	251.00	5545	352.00	20608
47.00	469	152.00	5392	252.00	9201	353.00	12926
48.00	668	153.00	28680	253.00	14012	354.00	15583
49.00	12985	154.00	22888	255.00	1520640	355.00	2926
50.00	368704	155.00	62960	256.00	229056	356.00	424
51.00	1173504	156.00	72864	257.00	17992	357.00	436
52.00	64432	157.00	10961	258.00	120456	358.00	832
53.00	1730	158.00	12924	259.00	17480	359.00	1241
54.00	129	159.00	14258	260.00	2939	360.00	937
55.00	6289	160.00	27512	261.00	2566	361.00	1571
56.00	31336	161.00	41784	262.00	908	362.00	1506
57.00	80080	162.00	9756	263.00	2356	363.00	1771
58.00	3568	163.00	3010	264.00	1602	364.00	1439
59.00	741	164.00	3522	265.00	54128	365.00	122648
60.00	1555	165.00	30072	266.00	7792	366.00	16904
61.00	16784	166.00	30976	267.00	1309	367.00	1551
62.00	23840	167.00	297280	268.00	1984	368.00	456
63.00	59688	168.00	154304	269.00	1974	369.00	413
64.00	8805	169.00	19592	270.00	3249	370.00	2696
65.00	30016	170.00	5475	271.00	7625	371.00	5957
66.00	2327	171.00	8781	272.00	10120	372.00	34256
67.00	2466	172.00	16704	273.00	59952	373.00	7475
69.00	1913856	173.00	23512	274.00	143424	374.00	1135
70.00	11364	174.00	40544	275.00	558144	375.00	161
71.00	1612	175.00	77800	276.00	74928	377.00	517
73.00	21608	176.00	17800	277.00	68696	378.00	68
74.00	257920	177.00	29520	278.00	10002	381.00	58
75.00	338624	178.00	12347	279.00	2415	381.00	612
76.00	148224	179.00	144320	280.00	464	382.00	570
77.00	2438656	180.00	88032	281.00	1067	383.00	9529
78.00	163904	181.00	42328	282.00	1894	384.00	1649
79.00	134144	182.00	6940	283.00	8489	385.00	1405

Report Date: 08-Oct-2021 13:46:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 08-Oct-2021 03:58:30
Spectrum: Tune Spec :Average 212-214(4.91-4.92) Bgrd 205(4.87)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 396

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	103416	183.00	4659	284.00	5250	386.00	158
81.00	145920	184.00	14323	285.00	8977	388.00	289
82.00	38304	185.00	72448	286.00	1931	388.00	569
83.00	31080	186.00	449088	287.00	395	389.00	683
84.00	3868	187.00	129480	288.00	1478	390.00	4340
85.00	19832	188.00	13998	289.00	4262	391.00	2932
86.00	42856	189.00	32824	290.00	3226	392.00	1827
87.00	18840	190.00	4969	291.00	1976	393.00	267
88.00	6182	191.00	16320	292.00	4164	394.00	68
89.00	3093	192.00	48440	293.00	14051	395.00	318
91.00	27656	193.00	52600	294.00	6237	396.00	550
92.00	31744	194.00	12729	295.00	5938	397.00	649
93.00	275328	195.00	8790	296.00	275520	398.00	808
94.00	17760	196.00	83784	297.00	35608	399.00	354
95.00	4835	198.00	2124288	298.00	2525	400.00	664
96.00	11236	199.00	147712	299.00	758	401.00	2722
97.00	1095	200.00	14840	300.00	854	402.00	12023
98.00	211072	201.00	10970	301.00	3542	403.00	17488
99.00	137024	202.00	4056	302.00	4886	404.00	5580
100.00	11416	203.00	31040	303.00	26792	405.00	1186
101.00	73984	204.00	143808	304.00	6734	406.00	412
102.00	4571	205.00	226112	305.00	578	407.00	524
103.00	16592	206.00	726080	306.00	122	408.00	379
104.00	43880	207.00	98264	307.00	516	410.00	1182
105.00	44704	208.00	29312	308.00	3517	411.00	1040
107.00	601664	209.00	9434	309.00	1985	412.00	566
108.00	84248	210.00	16304	310.00	3646	413.00	470
110.00	775936	211.00	31704	311.00	1136	414.00	662
111.00	130744	212.00	5077	312.00	1185	415.00	2107
112.00	16504	213.00	3860	313.00	2419	416.00	865
113.00	6317	214.00	1568	314.00	11115	417.00	1307
114.00	1396	215.00	12924	315.00	32888	418.00	1924
115.00	1391	216.00	24816	316.00	14891	419.00	1987
116.00	25472	217.00	212160	317.00	2729	420.00	2400

Report Date: 08-Oct-2021 13:46:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 08-Oct-2021 03:58:30
Spectrum: Tune Spec :Average 212-214(4.91-4.92) Bgrd 205(4.87)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 396

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	780160	218.00	29920	318.00	395	421.00	17216
118.00	54264	219.00	3197	319.00	1078	422.00	13367
119.00	4335	220.00	1771	320.00	1886	423.00	92944
120.00	5893	221.00	98704	321.00	6858	424.00	18744
121.00	3177	222.00	31304	322.00	4936	425.00	3771
122.00	37672	223.00	58840	323.00	65288	426.00	2235
123.00	54416	224.00	447616	324.00	12123	428.00	3947
124.00	25640	225.00	110512	325.00	1438	428.00	3336
125.00	21376	226.00	7456	326.00	2445	430.00	5002
127.00	1498112	227.00	228032	327.00	14764	430.00	4437
128.00	129760	228.00	32744	328.00	5763	431.00	3901
129.00	663616	229.00	42064	329.00	1022	432.00	5074
130.00	59648	230.00	7019	330.00	1204	433.00	4935
131.00	10400	231.00	13733	331.00	570	434.00	6110
132.00	4721	232.00	2746	332.00	5354	435.00	7202
133.00	2060	233.00	3347	333.00	8079	436.00	8957
134.00	19008	234.00	12396	334.00	43192	437.00	11219
135.00	48120	235.00	14891	335.00	10044	438.00	9988
136.00	22288	236.00	13596	336.00	1392	439.00	23344
137.00	29216	237.00	15251	338.00	443	440.00	18536
138.00	5609	238.00	2902	339.00	1604	441.00	320704
139.00	2291	239.00	9595	340.00	1466	442.00	1993216
140.00	8266	240.00	7004	341.00	6525	443.00	398464
141.00	96272	241.00	11076	342.00	3320	444.00	34440
142.00	26928	242.00	26840	343.00	789	445.00	2349
143.00	22968	243.00	34952	344.00	471	446.00	53
144.00	4743	244.00	342528	345.00	230	451.00	134
145.00	3819	245.00	45224	346.00	15966	461.00	63
146.00	18288	246.00	78728	347.00	3690	486.00	73
147.00	45776	247.00	14342	348.00	503	510.00	59
148.00	182272	248.00	4440	349.00	558	541.00	115
149.00	28168	249.00	10807	350.00	1697	544.00	85

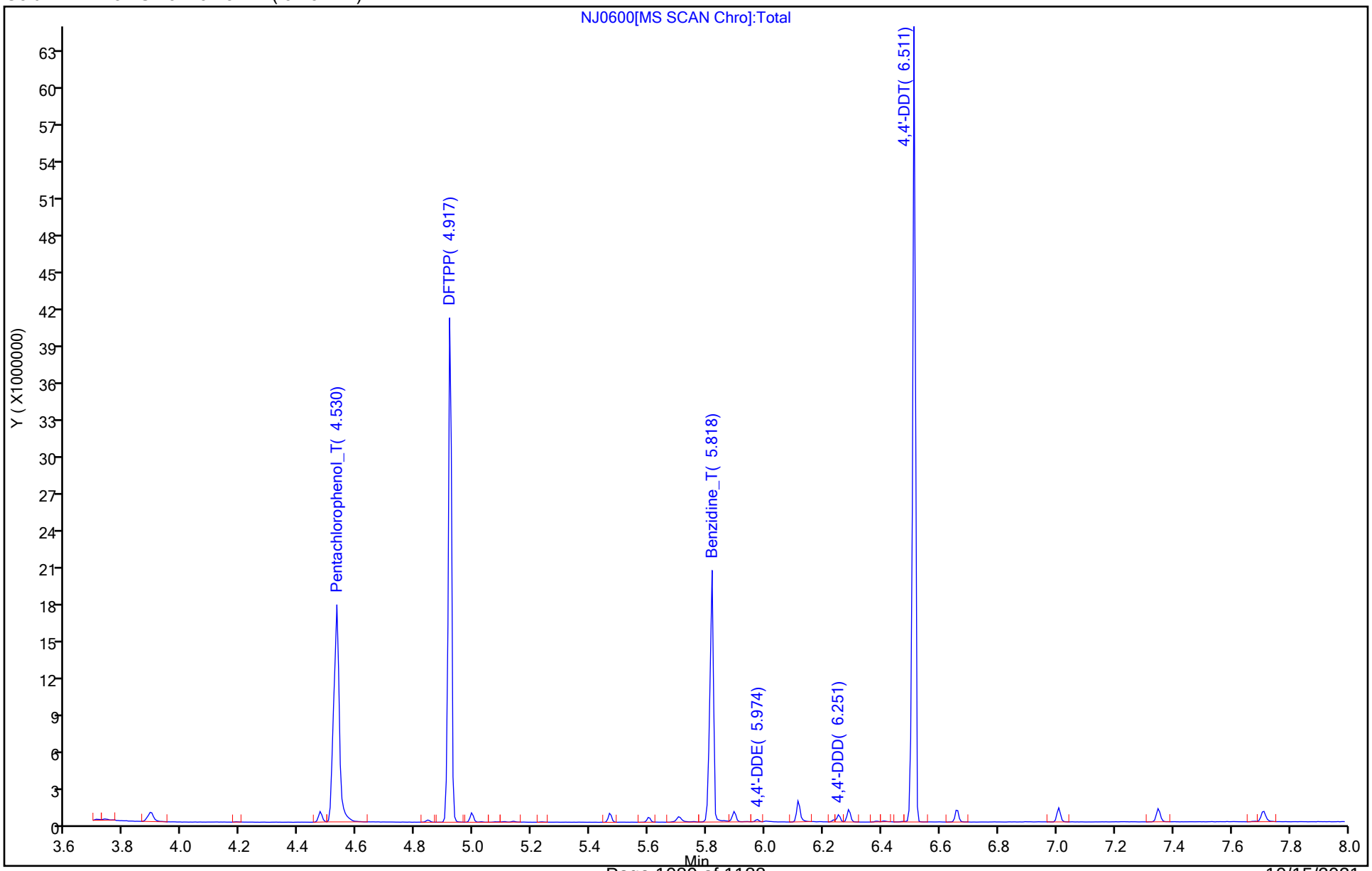
Report Date: 08-Oct-2021 13:46:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D

Injection Date:	08-Oct-2021 03:58:30	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\20211008-41032.b\NJ0600.D
Injection Date: 08-Oct-2021 03:58:30 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

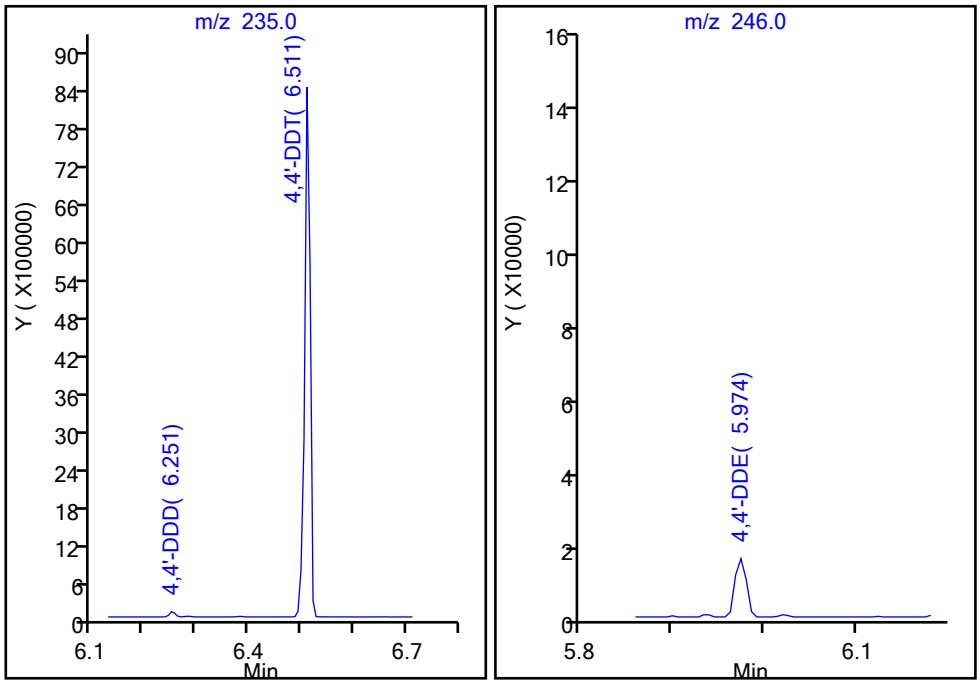
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 6195846
47 4,4'-DDE, Area = 14471
48 4,4'-DDD, Area = 75148

%Breakdown: 1.43%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

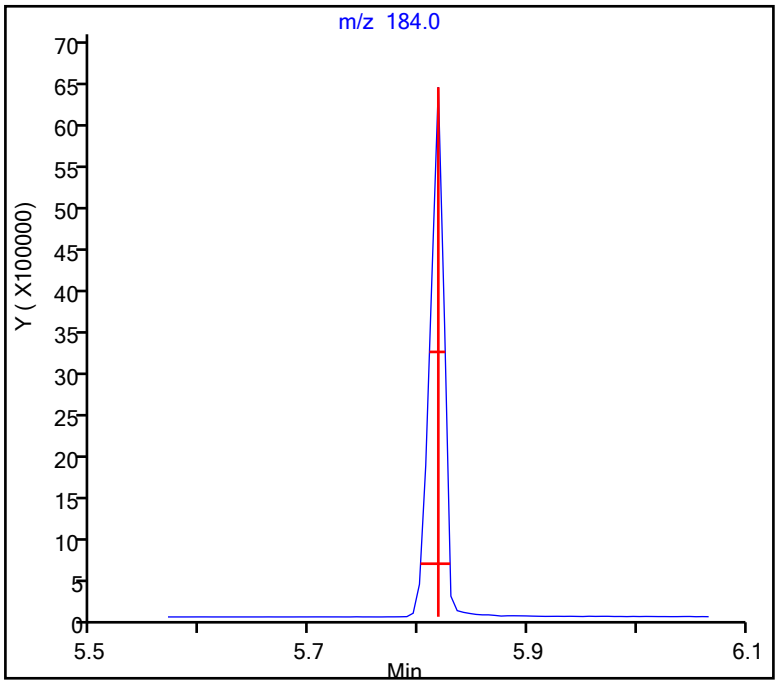
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D
Injection Date: 08-Oct-2021 03:58:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

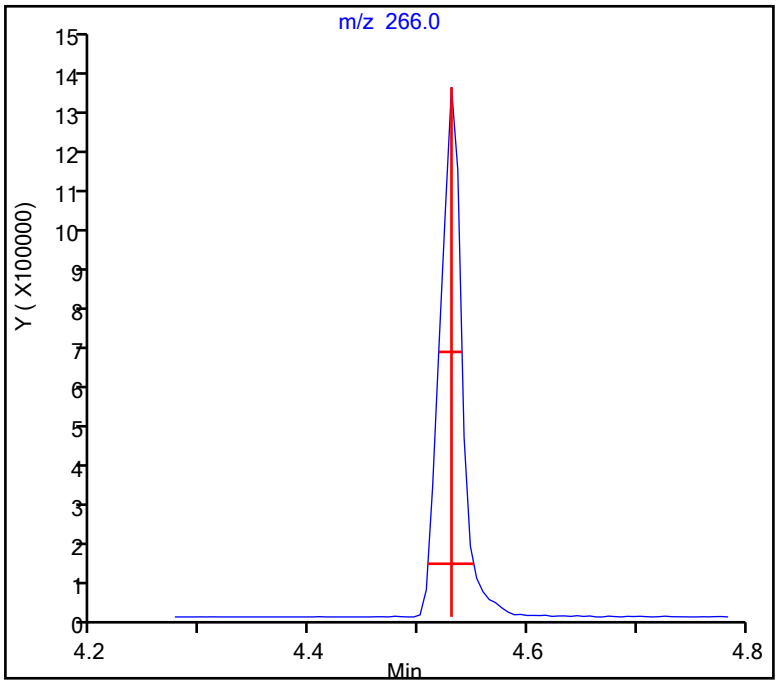
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0600.D
Injection Date: 08-Oct-2021 03:58:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 0.95, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Oct-2021 09:07:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041227-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 10:03:45 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: gamblerj Date: 11-Oct-2021 10:03:45

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	4.518	4.518	0.000	85	1441079	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.806	5.806	0.000	98	5788684	NR	NR	
47 4,4'-DDE	246	5.956	5.956	0.000	74	8538		NR	
48 4,4'-DDD	235	6.239	6.239	0.000	92	48241		NR	
49 4,4'-DDT	235	6.494	6.494	0.000	91	4797135	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

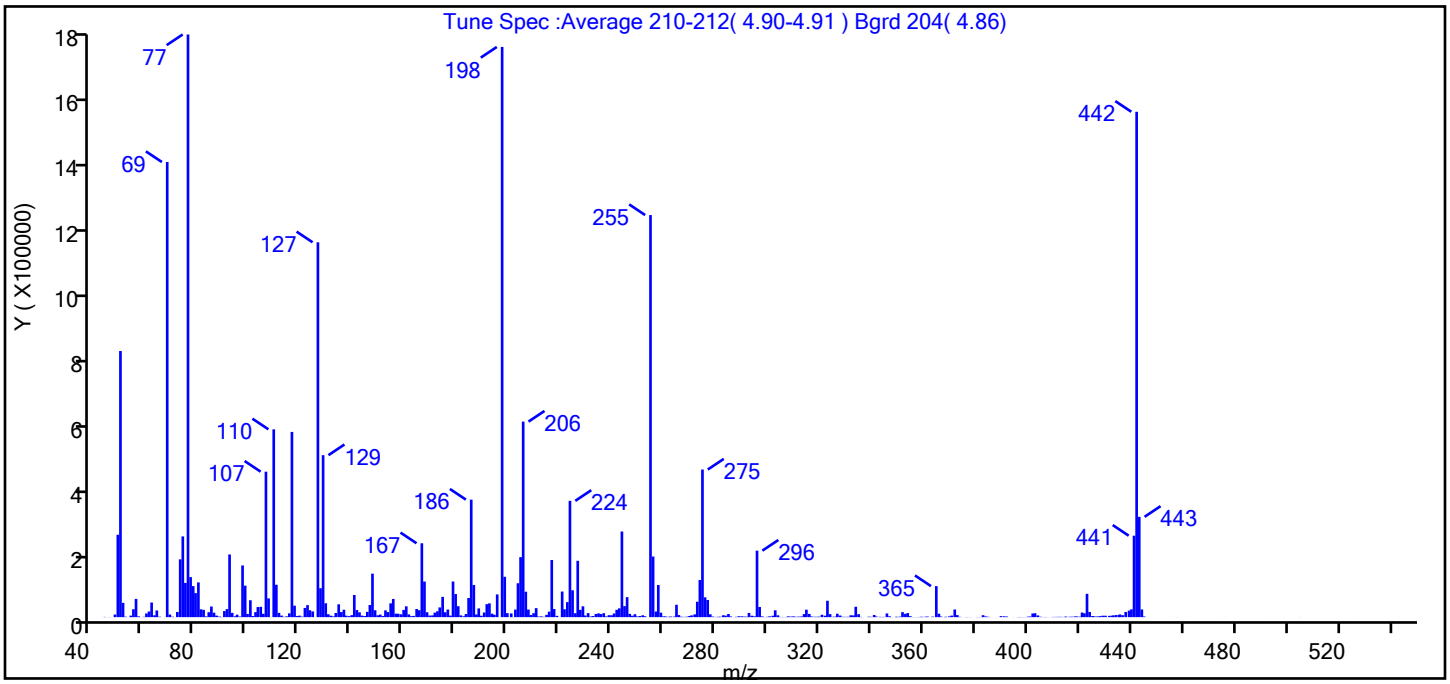
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D
Injection Date: 11-Oct-2021 09:07:30 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 (112.8)
51	10-80% of the base peak	46.7
68	<2% of mass 69	0.0 (0.0)
69	Present	79.8
70	<2% of mass 69	0.5 (0.6)
127	10-80% of the base peak	65.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	25.9
365	>1% of mass 198	5.4
441	present but <24% of mass 442	14.3 (16.1)
442	base peak, or >50% of 198	88.6
443	15-24% of mass 442	17.6 (19.9)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 11-Oct-2021 09:07:30
Spectrum: Tune Spec :Average 210-212(4.90-4.91) Bgrd 204(4.86)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 399

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	687	150.00	5403	252.00	5401	353.00	9722
47.00	335	151.00	7483	253.00	2556	354.00	11956
49.00	7637	152.00	3196	255.00	1187840	355.00	2828
50.00	243392	153.00	20064	256.00	179008	356.00	363
51.00	786240	154.00	14957	257.00	16512	357.00	382
52.00	42216	155.00	40760	258.00	94912	358.00	315
53.00	1326	156.00	53712	259.00	13228	359.00	1188
54.00	88	157.00	10241	260.00	2298	360.00	645
55.00	4395	158.00	9991	261.00	1983	361.00	1412
56.00	23400	159.00	8422	262.00	1066	362.00	1457
57.00	53936	160.00	21320	263.00	1820	364.00	1523
58.00	2385	161.00	31944	264.00	1698	365.00	91656
59.00	241	162.00	8020	265.00	36552	366.00	9999
60.00	911	163.00	2730	266.00	6094	367.00	1717
61.00	10846	164.00	3663	267.00	1331	368.00	447
62.00	16656	165.00	24064	268.00	831	369.00	1165
63.00	43256	166.00	20512	269.00	1424	370.00	2279
64.00	5454	167.00	218240	270.00	3374	371.00	4573
65.00	19688	168.00	105104	271.00	5220	372.00	22552
66.00	1269	169.00	14444	272.00	8036	373.00	5972
69.00	1344512	170.00	4782	273.00	45536	374.00	863
70.00	7729	171.00	5183	274.00	109656	375.00	120
71.00	1299	172.00	13287	275.00	436096	377.00	475
72.00	165	173.00	17352	276.00	58520	378.00	279
73.00	15170	174.00	28688	277.00	50552	379.00	111
74.00	170752	175.00	59856	278.00	8424	380.00	75
75.00	238464	176.00	14468	279.00	1707	381.00	493
76.00	101120	177.00	22504	280.00	634	382.00	407
77.00	1721344	178.00	4546	281.00	1061	383.00	5776
78.00	118296	179.00	105248	282.00	1233	384.00	2250
79.00	91672	180.00	68192	283.00	5479	385.00	1041
80.00	70968	181.00	32272	284.00	4505	387.00	94
81.00	102576	182.00	5229	285.00	9265	388.00	198

Report Date: 11-Oct-2021 10:03:46 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 11-Oct-2021 09:07:30
Spectrum: Tune Spec :Average 210-212(4.90-4.91) Bgrd 204(4.86)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 399

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	23120	183.00	2457	286.00	2021	390.00	3048
83.00	21432	184.00	9204	287.00	224	391.00	2487
84.00	2210	185.00	56480	288.00	944	392.00	1893
85.00	14609	186.00	347200	289.00	2673	395.00	195
86.00	31336	187.00	95040	290.00	2382	397.00	356
87.00	13243	188.00	7955	291.00	1601	397.00	477
88.00	4558	189.00	25848	292.00	1427	398.00	342
89.00	1710	190.00	4188	293.00	12433	399.00	375
90.00	528	191.00	13759	294.00	4215	400.00	1452
91.00	17968	192.00	38368	295.00	2459	401.00	1782
92.00	23776	193.00	40728	296.00	196416	402.00	10770
93.00	185152	194.00	10211	297.00	30048	403.00	11520
94.00	12643	195.00	6996	298.00	2188	404.00	5126
95.00	2645	196.00	67128	299.00	296	405.00	1117
96.00	7302	198.00	1684480	300.00	1061	406.00	197
97.00	1749	199.00	119200	301.00	2423	407.00	516
98.00	152704	200.00	11854	302.00	4125	408.00	222
99.00	93008	201.00	10988	303.00	20256	410.00	256
100.00	9468	202.00	257	304.00	5357	410.00	682
101.00	49936	203.00	22392	305.00	908	411.00	798
102.00	3361	204.00	100168	306.00	496	412.00	966
103.00	14751	205.00	177216	307.00	486	413.00	749
104.00	29824	206.00	577664	308.00	2410	414.00	762
105.00	30488	207.00	75168	309.00	1694	415.00	1733
106.00	9861	208.00	22480	310.00	2174	416.00	1177
107.00	429760	209.00	6306	311.00	1121	417.00	1229
108.00	55408	210.00	11579	312.00	1603	418.00	2220
109.00	232	211.00	26600	313.00	2060	419.00	1955
110.00	554816	212.00	1756	314.00	8892	420.00	1282
111.00	95680	213.00	2360	315.00	22048	421.00	13568
112.00	12581	214.00	965	316.00	9594	422.00	11356
113.00	4551	215.00	6832	317.00	1950	423.00	68944
114.00	870	216.00	16216	318.00	1155	424.00	15314
115.00	2329	217.00	168704	319.00	1056	425.00	3259

Report Date: 11-Oct-2021 10:03:46 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 11-Oct-2021 09:07:30
Spectrum: Tune Spec :Average 210-212(4.90-4.91) Bgrd 204(4.86)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 399

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	11197	218.00	24032	320.00	1431	426.00	2310
117.00	547136	219.00	3804	321.00	6943	427.00	1960
118.00	33840	221.00	75608	322.00	4232	428.00	3017
119.00	3446	222.00	23344	323.00	48400	429.00	4273
120.00	4441	223.00	44376	324.00	8945	430.00	4307
121.00	1545	224.00	343616	325.00	968	432.00	3887
122.00	27304	225.00	79328	326.00	1469	433.00	4381
123.00	35552	226.00	11570	327.00	10057	433.00	5134
124.00	20312	227.00	166464	328.00	4792	434.00	6120
125.00	16808	228.00	21608	329.00	1033	435.00	6699
127.00	1107456	229.00	31984	330.00	861	436.00	7794
128.00	85384	230.00	4824	331.00	1080	437.00	5803
129.00	478528	231.00	11929	332.00	5591	438.00	15249
130.00	41024	232.00	1961	333.00	5098	439.00	19312
131.00	8523	233.00	3281	334.00	30688	440.00	22976
132.00	4251	234.00	9400	335.00	8693	441.00	240576
133.00	2198	235.00	11111	336.00	809	442.00	1492992
134.00	12313	236.00	9160	337.00	161	443.00	296384
135.00	37888	237.00	11694	338.00	61	444.00	22712
136.00	14925	238.00	2148	339.00	1355	445.00	1841
137.00	21896	239.00	5742	340.00	875	447.00	114
138.00	4372	240.00	5558	341.00	6292	455.00	112
139.00	3040	241.00	10873	342.00	1737	458.00	151
140.00	5858	242.00	21720	343.00	912	461.00	89
141.00	65488	243.00	25960	344.00	562	475.00	65
142.00	21000	244.00	252992	345.00	754	476.00	109
143.00	14207	245.00	32520	346.00	10908	492.00	60
144.00	4424	246.00	59096	347.00	2621	495.00	89
145.00	3286	247.00	9640	348.00	331	498.00	84
146.00	15679	248.00	4147	350.00	1190	505.00	166
147.00	35848	249.00	8645	350.00	598	526.00	56
148.00	128472	250.00	2002	351.00	1539	543.00	80
149.00	20456	251.00	3318	352.00	14746		

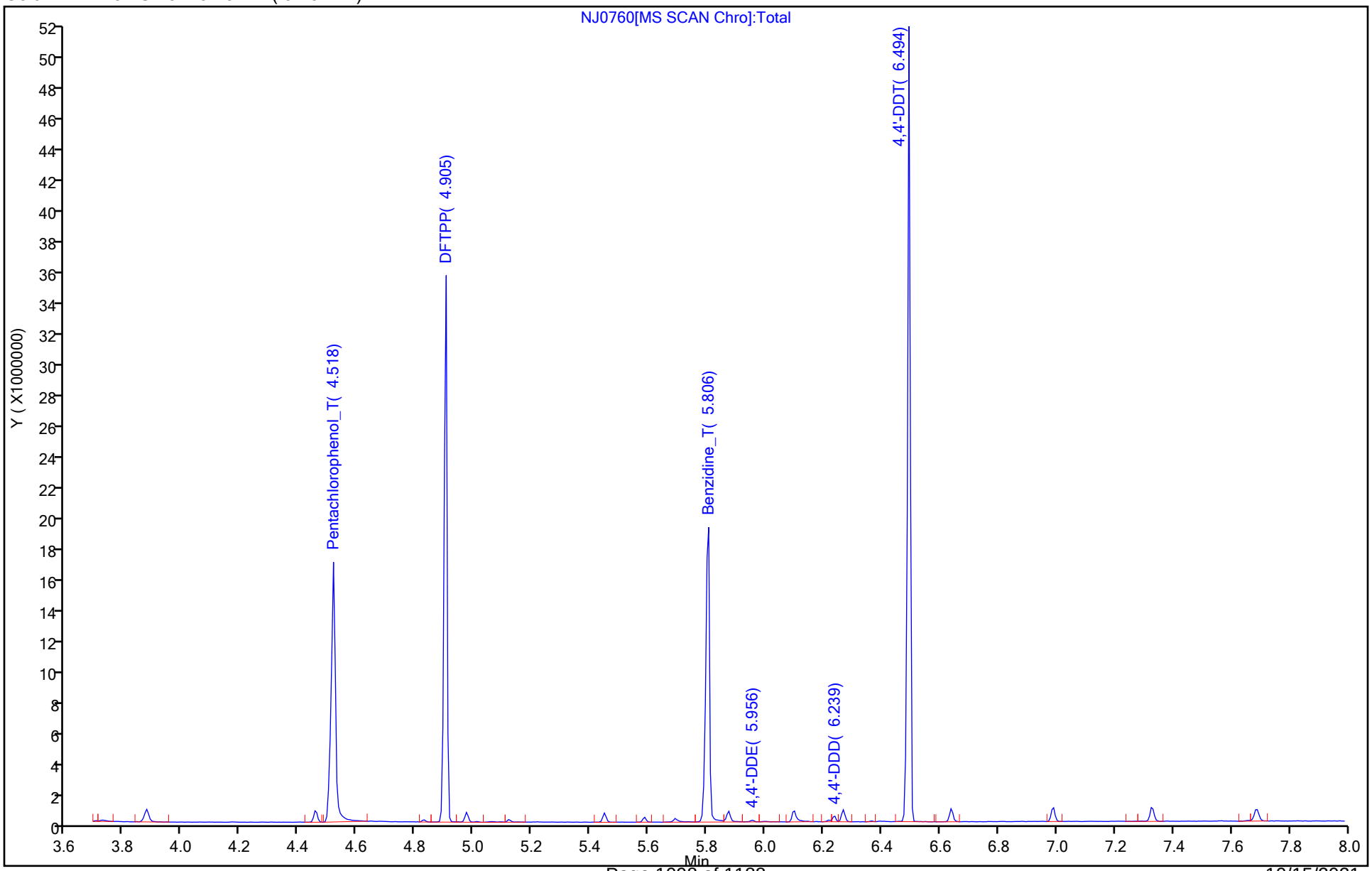
Report Date: 11-Oct-2021 10:03:46 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D

Injection Date:	11-Oct-2021 09:07:30	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\20211011-41227.b\NJ0760.D
Injection Date: 11-Oct-2021 09:07:30 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

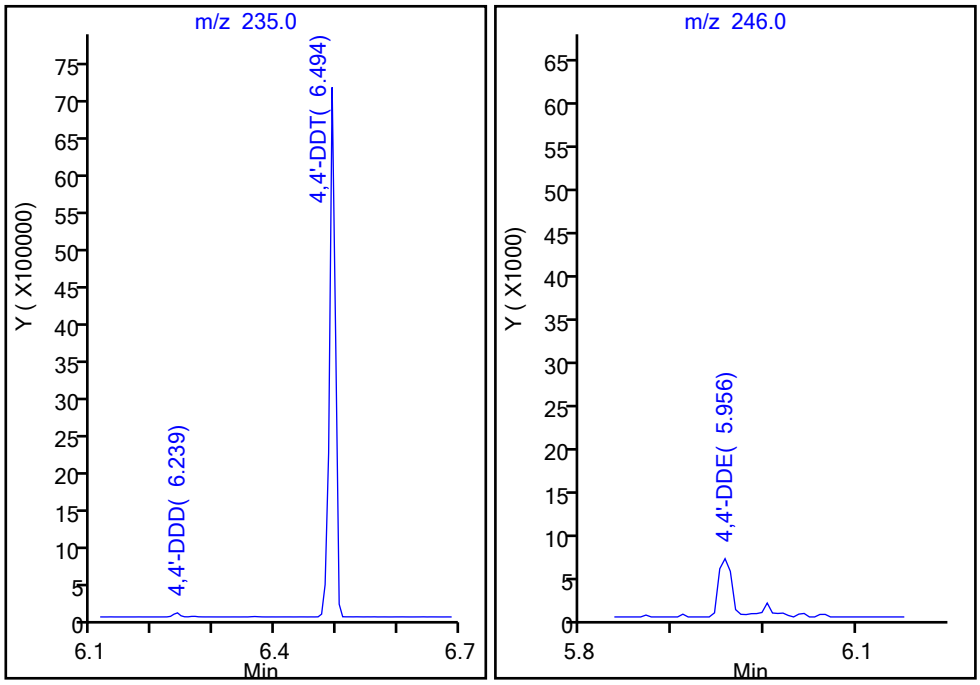
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 4797135
47 4,4'-DDE, Area = 8538
48 4,4'-DDD, Area = 48241

%Breakdown: 1.17%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

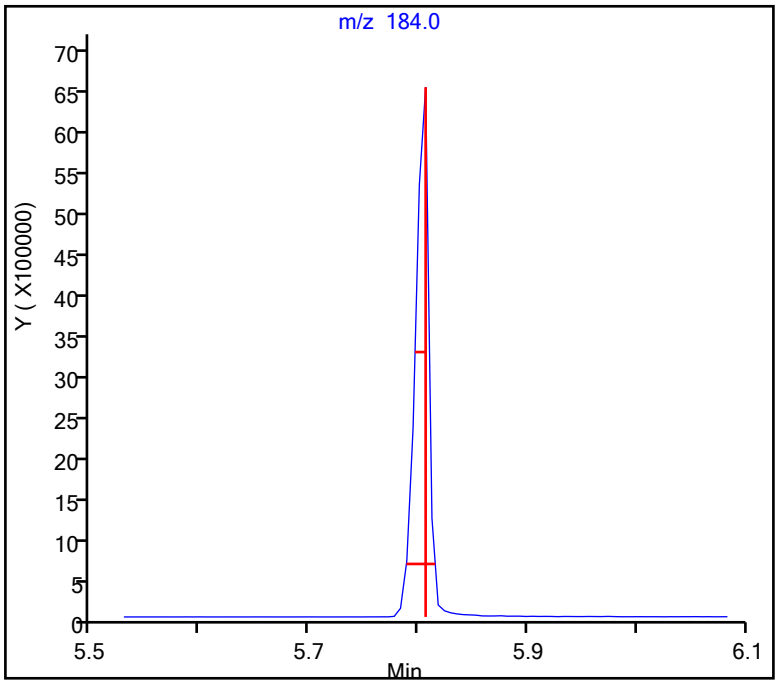
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D
Injection Date: 11-Oct-2021 09:07:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.50, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

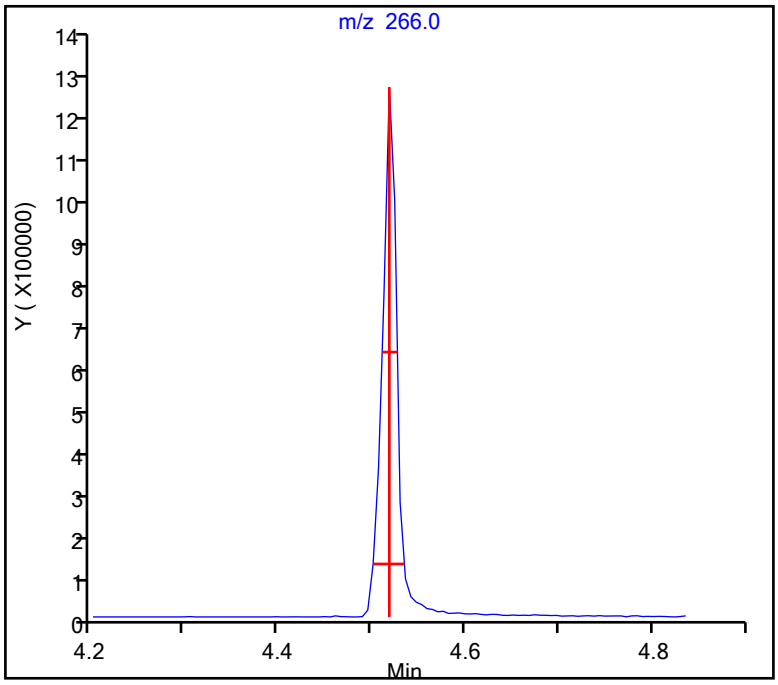
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0760.D
Injection Date: 11-Oct-2021 09:07:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.94, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 12-Oct-2021 05:50:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041293-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 12-Oct-2021 11:16:14 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1612

First Level Reviewer: gamblerj Date: 12-Oct-2021 11:16:14

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	4.524	4.524	0.000	87	1216683	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.812	5.812	0.000	99	3992493	NR	NR	
47 4,4'-DDE	246	5.962	5.962	0.000	78	8948		NR	
48 4,4'-DDD	235	6.251	6.251	0.000	93	108278		NR	
49 4,4'-DDT	235	6.505	6.505	0.000	91	3391895	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

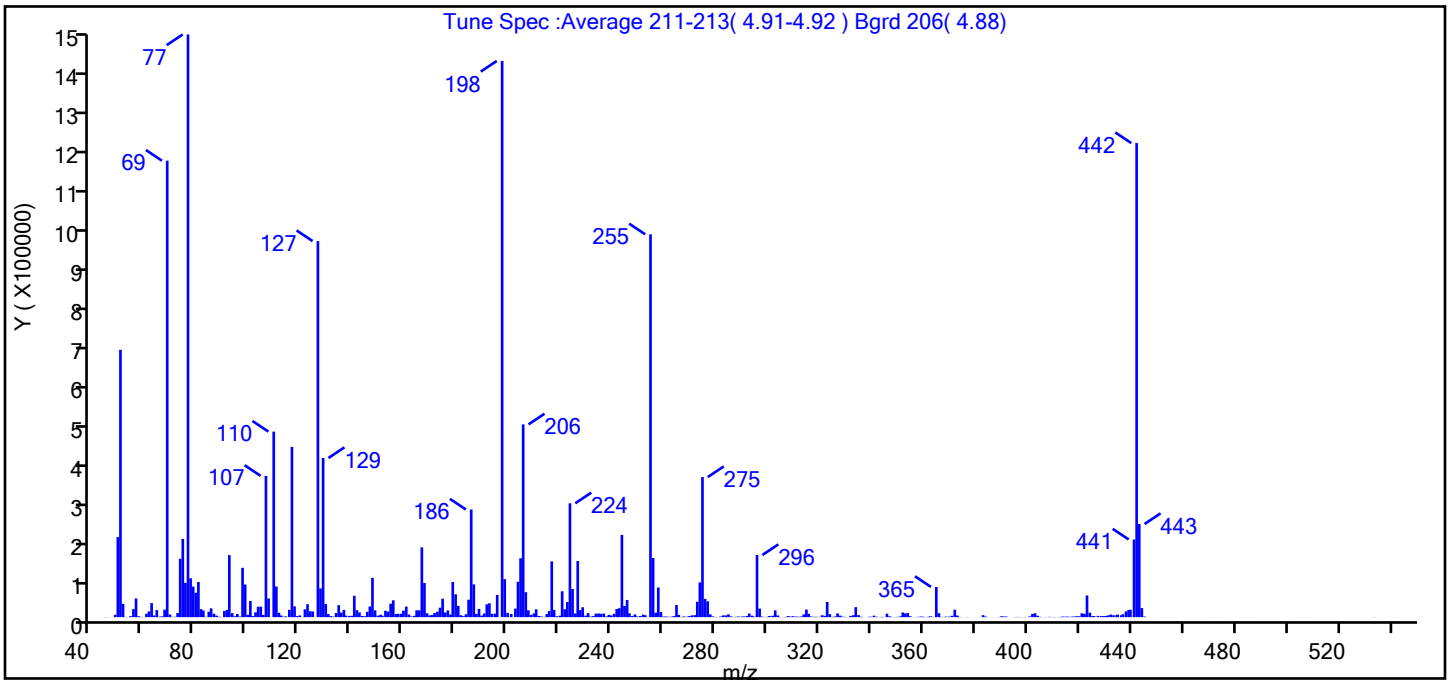
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D
Injection Date: 12-Oct-2021 05:50:30 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 (117.3)
51	10-80% of the base peak	48.1
68	<2% of mass 69	1.4 (1.6)
69	Present	82.1
70	<2% of mass 69	0.5 (0.6)
127	10-80% of the base peak	67.6
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	25.2
365	>1% of mass 198	5.4
441	present but <24% of mass 442	14.0 (16.4)
442	base peak, or >50% of 198	85.2
443	15-24% of mass 442	16.7 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 12-Oct-2021 05:50:30
Spectrum: Tune Spec :Average 211-213(4.91-4.92) Bgrd 206(4.88)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 397

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	286	148.00	94960	250.00	1727	352.00	11315
46.00	323	149.00	16384	251.00	2777	353.00	9159
48.00	134	150.00	3640	252.00	6115	354.00	9914
49.00	5518	151.00	5694	253.00	4555	355.00	2174
50.00	193664	152.00	3449	255.00	925760	356.00	208
51.00	646400	153.00	15491	256.00	142976	357.00	479
52.00	32152	154.00	13419	257.00	10809	358.00	707
53.00	513	155.00	32536	258.00	71672	359.00	1516
54.00	256	156.00	40696	259.00	12508	360.00	822
55.00	2483	157.00	7421	260.00	1266	361.00	398
56.00	19384	158.00	8073	261.00	1546	362.00	1060
57.00	45256	159.00	8156	262.00	997	363.00	1888
58.00	2158	160.00	15790	263.00	1114	364.00	604
59.00	711	161.00	25576	264.00	2642	365.00	73064
60.00	404	162.00	6360	265.00	29456	366.00	9491
61.00	8235	163.00	1564	266.00	5451	367.00	671
62.00	13901	164.00	3193	267.00	337	368.00	634
63.00	34008	165.00	16656	268.00	1712	369.00	1139
64.00	4053	166.00	16432	269.00	1102	370.00	1173
65.00	17088	167.00	168768	270.00	2645	371.00	3317
66.00	1026	168.00	82528	271.00	4394	372.00	17912
67.00	2010	169.00	9334	272.00	4832	373.00	3878
68.00	18168	170.00	4262	273.00	37152	374.00	622
69.00	1103872	171.00	5137	274.00	83968	375.00	83
70.00	6494	172.00	10033	275.00	338752	376.00	210
71.00	652	173.00	13140	276.00	44248	377.00	391
72.00	914	174.00	22840	277.00	38320	380.00	89
73.00	10044	175.00	44544	278.00	6662	380.00	63
74.00	141120	176.00	11208	279.00	1814	382.00	76
75.00	189248	177.00	16130	280.00	227	382.00	52
76.00	82776	178.00	6384	281.00	284	383.00	4790
77.00	1409024	179.00	85000	282.00	1494	384.00	1480
78.00	94064	180.00	55296	283.00	4238	385.00	254

Report Date: 12-Oct-2021 11:16:15 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 12-Oct-2021 05:50:30
Spectrum: Tune Spec :Average 211-213(4.91-4.92) Bgrd 206(4.88)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 397

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	73768	181.00	27208	284.00	4203	387.00	159
80.00	58952	182.00	4654	285.00	6736	388.00	80
81.00	84864	183.00	2274	286.00	1748	389.00	436
82.00	19296	184.00	6919	287.00	465	390.00	2213
83.00	16069	185.00	42168	288.00	880	391.00	1633
84.00	821	186.00	260288	289.00	1503	392.00	1255
85.00	12939	187.00	79272	290.00	1345	393.00	81
86.00	21208	188.00	7872	291.00	1584	395.00	260
87.00	8195	189.00	19896	292.00	2590	396.00	546
88.00	3594	190.00	3831	293.00	8673	397.00	474
89.00	910	191.00	8810	294.00	3592	398.00	135
90.00	262	192.00	31096	295.00	1266	399.00	453
91.00	14931	193.00	33576	296.00	150208	401.00	1822
92.00	17544	194.00	8153	297.00	20672	402.00	7782
93.00	150016	195.00	8477	298.00	1376	403.00	9432
94.00	9663	196.00	53696	299.00	322	404.00	3414
95.00	2134	198.00	1345024	300.00	927	405.00	708
96.00	7633	199.00	91840	301.00	2870	407.00	274
97.00	1407	200.00	10366	302.00	3347	408.00	302
98.00	119328	201.00	7672	303.00	16298	409.00	674
99.00	78912	203.00	20496	304.00	4138	410.00	459
100.00	5545	204.00	85440	305.00	423	411.00	431
101.00	39144	205.00	142336	306.00	325	412.00	501
102.00	2659	206.00	466112	307.00	752	413.00	498
103.00	11633	207.00	60376	308.00	2624	414.00	1467
104.00	25144	208.00	16448	309.00	1324	415.00	1292
105.00	25376	209.00	5344	310.00	2250	416.00	1247
106.00	5281	210.00	8876	311.00	1465	417.00	1080
107.00	341632	211.00	18928	312.00	916	418.00	1476
108.00	45104	212.00	2899	313.00	1738	419.00	2153
110.00	448640	213.00	1647	314.00	6647	420.00	2031
111.00	74104	214.00	659	315.00	18400	421.00	9324
112.00	10504	215.00	7369	316.00	8084	422.00	8207
113.00	3945	216.00	14683	317.00	1527	423.00	52496

Report Date: 12-Oct-2021 11:16:15 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 12-Oct-2021 05:50:30
Spectrum: Tune Spec :Average 211-213(4.91-4.92) Bgrd 206(4.88)
Base Peak: 77.00
Minimum % Base Peak: 0
Number of Points: 397

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	962	217.00	134976	318.00	863	424.00	10663
115.00	1710	218.00	17440	319.00	830	425.00	2380
116.00	17760	219.00	2268	320.00	642	426.00	2669
117.00	411648	220.00	3455	321.00	4654	427.00	3113
118.00	25976	221.00	62568	322.00	3091	428.00	2687
119.00	2621	222.00	19064	323.00	36736	430.00	2746
120.00	4074	223.00	36400	324.00	7239	430.00	2553
121.00	383	224.00	275328	325.00	798	431.00	4313
122.00	19000	225.00	67960	326.00	1673	432.00	6136
123.00	31248	226.00	9030	327.00	9047	433.00	4636
124.00	14322	227.00	135616	328.00	3711	434.00	4710
125.00	13742	228.00	16952	329.00	1053	435.00	6162
127.00	909440	229.00	23960	330.00	692	436.00	4329
128.00	69424	230.00	3635	331.00	223	437.00	6936
129.00	384832	231.00	9682	332.00	3177	438.00	13770
130.00	31864	232.00	1313	333.00	4633	439.00	17232
131.00	7401	233.00	2598	334.00	24184	440.00	17960
132.00	2493	234.00	8442	335.00	4901	441.00	187776
133.00	1285	235.00	8815	336.00	1028	442.00	1146368
134.00	9885	236.00	7946	337.00	241	443.00	225216
135.00	28992	237.00	8737	338.00	127	444.00	21992
136.00	10943	238.00	1726	339.00	732	445.00	1462
137.00	17600	239.00	5546	340.00	928	454.00	99
138.00	3626	240.00	3928	341.00	3515	472.00	58
139.00	2972	241.00	7989	342.00	1064	473.00	78
140.00	3117	242.00	19744	344.00	540	475.00	105
141.00	51680	243.00	21712	344.00	628	485.00	117
142.00	16808	244.00	198848	346.00	8386	506.00	71
143.00	11303	245.00	27024	347.00	2098	533.00	331
144.00	2954	246.00	41552	348.00	565	543.00	55
145.00	2008	247.00	9134	349.00	321		
146.00	12855	248.00	2727	350.00	811		
147.00	25768	249.00	6574	351.00	1947		

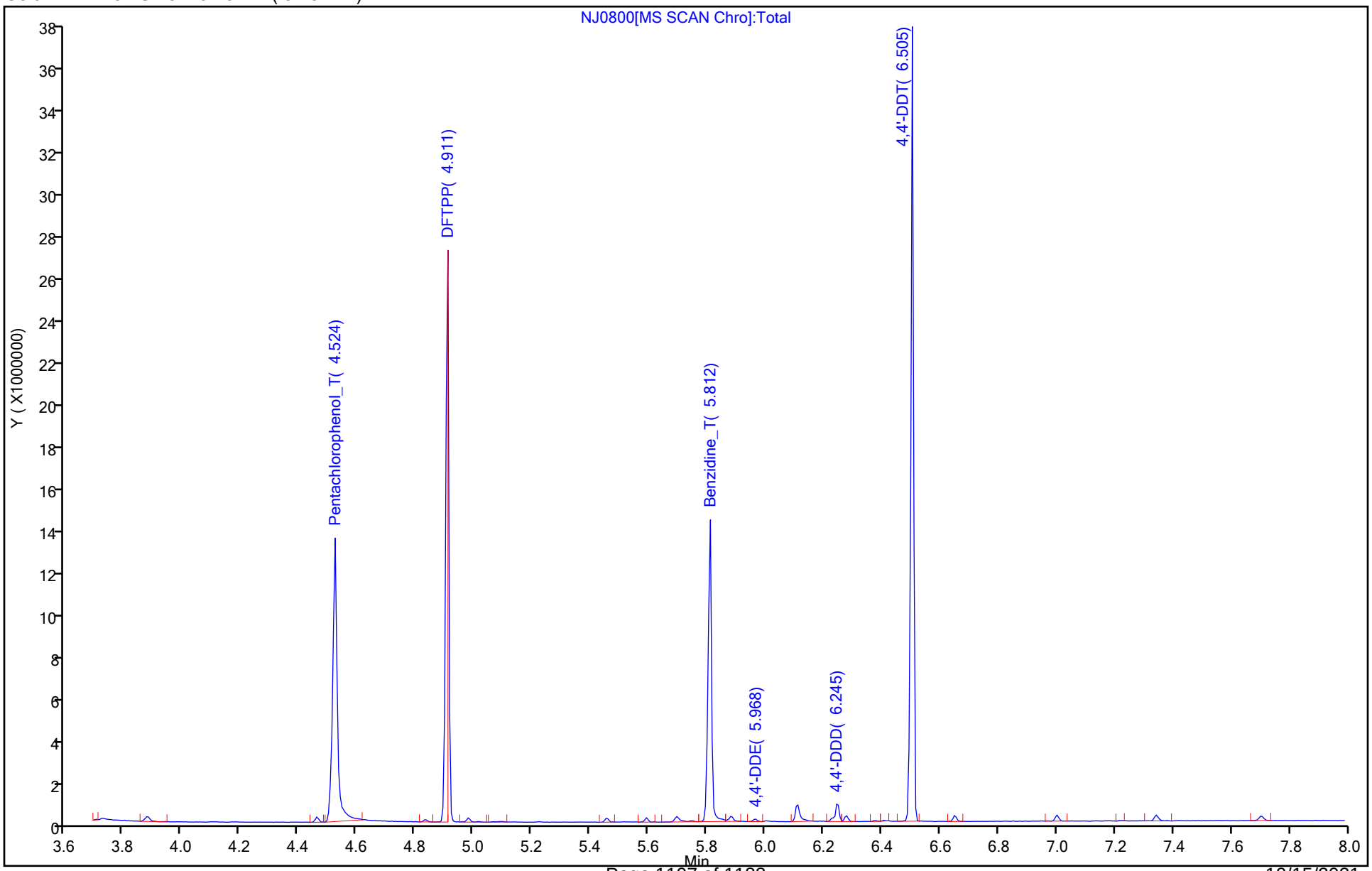
Report Date: 12-Oct-2021 11:16:15 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D

Injection Date:	12-Oct-2021 05:50:30	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\20211012-41293.b\NJ0800.D
Injection Date: 12-Oct-2021 05:50:30 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

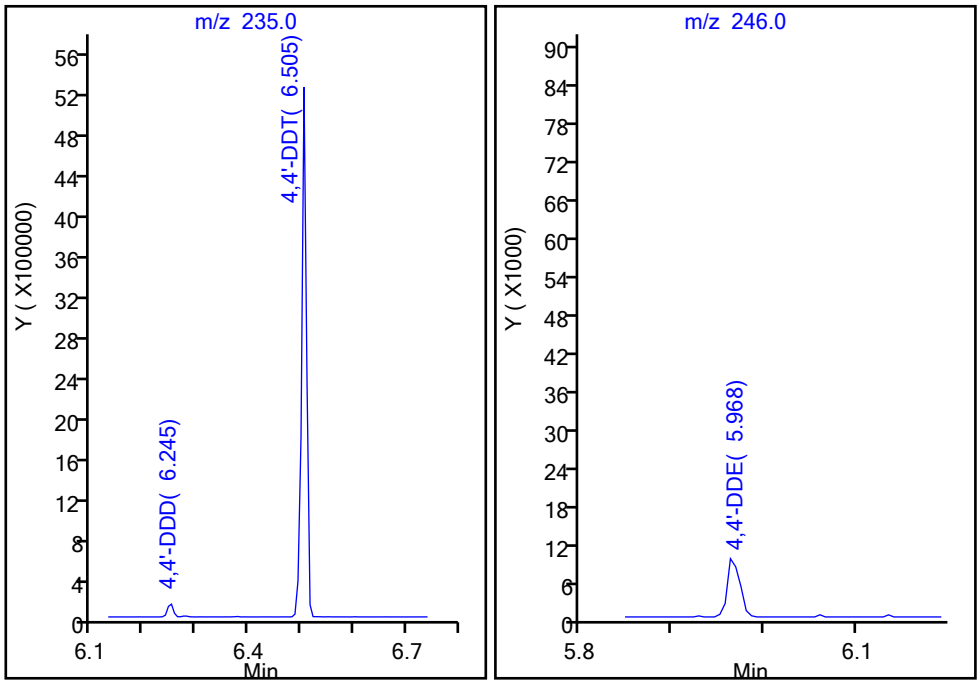
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3391895
47 4,4'-DDE, Area = 8948
48 4,4'-DDD, Area = 108278

%Breakdown: 3.34%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

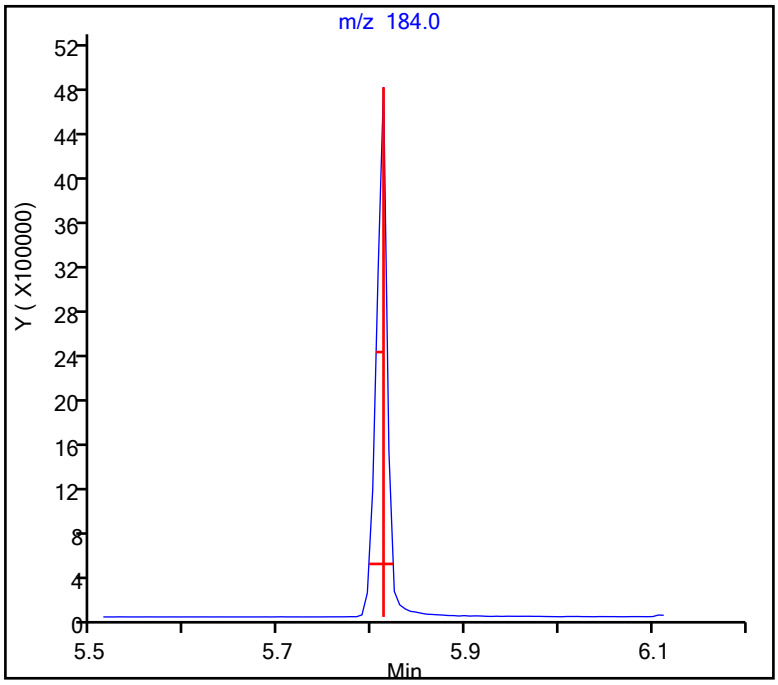
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D
Injection Date: 12-Oct-2021 05:50:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.63, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

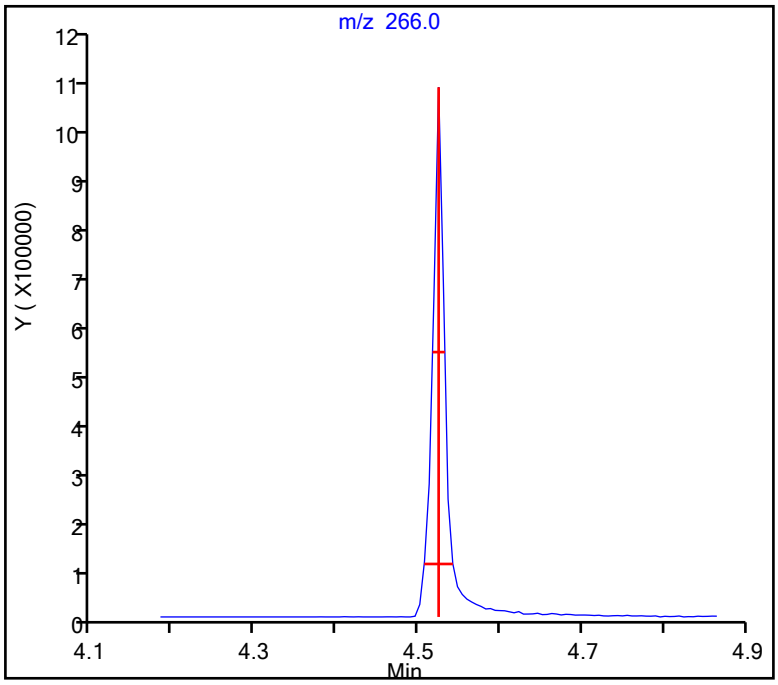
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211012-41293.b\NJ0800.D
Injection Date: 12-Oct-2021 05:50:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.94, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 13-Oct-2021 08:15:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0041421-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 11:02:08 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 11:02:08

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	4.507	4.507	0.000	86	2008437	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.795	5.795	0.000	98	5455721	NR	NR	
48 4,4'-DDD	235	6.234	6.234	0.000	90	85068		NR	
49 4,4'-DDT	235	6.494	6.494	0.000	83	6899612	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

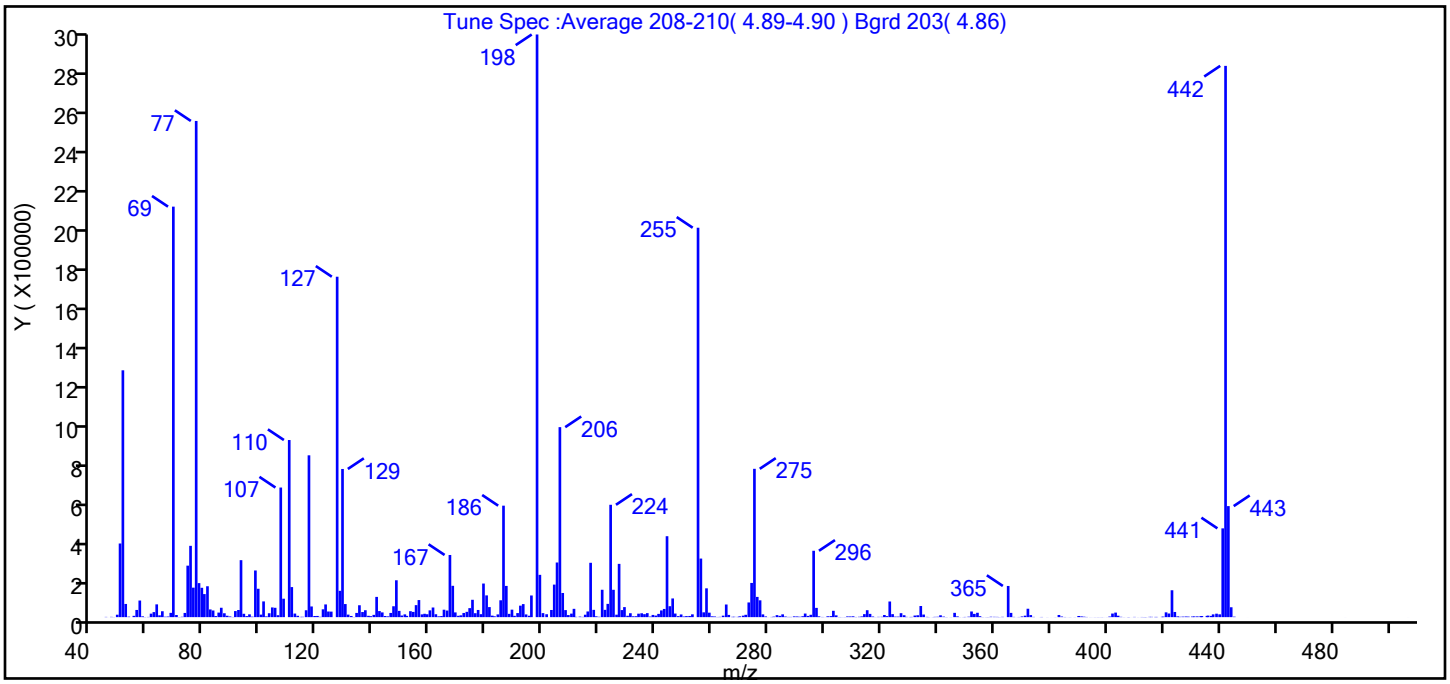
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D
Injection Date: 13-Oct-2021 08:15:30 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 (105.7)
51	10-80% of the base peak	42.4
68	<2% of mass 69	0.7 (1.0)
69	Present	70.5
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	58.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.3
275	10-60% of the base peak	25.5
365	>1% of mass 198	5.4
441	present but <24% of mass 442	15.2 (16.1)
442	base peak, or >50% of 198	94.6
443	15-24% of mass 442	19.1 (20.1)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 13-Oct-2021 08:15:30
Spectrum: Tune Spec :Average 208-210(4.89-4.90) Bgrd 203(4.86)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	1224	147.00	55768	248.00	5238	348.00	419
46.00	80	148.00	188800	249.00	13757	349.00	440
47.00	1384	149.00	32104	250.00	3299	350.00	1087
48.00	528	150.00	8290	251.00	5328	351.00	2304
49.00	12431	151.00	14222	252.00	6042	352.00	29016
50.00	377152	152.00	6556	253.00	14386	353.00	16672
51.00	1264128	153.00	30456	255.00	1994240	354.00	22408
52.00	67536	154.00	26856	256.00	299968	355.00	4775
53.00	2586	155.00	61464	257.00	24696	356.00	631
55.00	6726	156.00	87456	258.00	147520	357.00	482
56.00	36824	157.00	14194	259.00	22872	358.00	713
57.00	85072	158.00	17184	260.00	4111	359.00	2090
58.00	4160	159.00	14866	261.00	3287	360.00	1615
59.00	672	160.00	34696	262.00	964	361.00	1359
60.00	1115	161.00	49376	263.00	1494	362.00	652
61.00	17872	162.00	14886	264.00	7611	363.00	1538
62.00	25792	163.00	4185	265.00	64744	365.00	159680
63.00	65448	164.00	5572	266.00	11452	366.00	21776
64.00	9351	165.00	38056	267.00	1575	367.00	1298
65.00	30232	166.00	33760	268.00	1903	368.00	176
66.00	2216	167.00	318336	269.00	1440	369.00	948
67.00	3104	168.00	160448	270.00	4156	370.00	3541
68.00	21896	169.00	24264	271.00	7610	371.00	7512
69.00	2102272	170.00	7023	272.00	12026	372.00	43040
70.00	10986	171.00	9315	273.00	75232	373.00	10607
71.00	760	172.00	21432	274.00	175168	374.00	1227
72.00	1849	173.00	27136	275.00	759616	376.00	183
73.00	21528	174.00	46120	276.00	103648	377.00	940
74.00	263680	175.00	88888	277.00	86192	379.00	300
75.00	365184	176.00	20160	278.00	14179	380.00	120
76.00	151040	177.00	36744	279.00	3612	382.00	168
77.00	2541056	178.00	15187	280.00	245	382.00	262
78.00	174272	179.00	172096	281.00	1079	383.00	11052

Report Date: 13-Oct-2021 11:02:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 13-Oct-2021 08:15:30
Spectrum: Tune Spec :Average 208-210(4.89-4.90) Bgrd 203(4.86)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	150336	180.00	111400	282.00	2726	384.00	3205
80.00	118080	181.00	51488	283.00	10280	385.00	887
81.00	158208	182.00	7697	284.00	6651	386.00	243
82.00	39440	183.00	4399	285.00	14364	387.00	487
83.00	34032	184.00	13977	286.00	3136	389.00	277
84.00	5566	185.00	86360	287.00	1241	389.00	125
85.00	23272	186.00	570880	288.00	1186	390.00	5925
86.00	48104	187.00	159936	289.00	3855	391.00	3706
87.00	19904	188.00	16800	290.00	3476	392.00	2248
88.00	7177	189.00	38288	291.00	2135	393.00	1004
89.00	3522	190.00	6783	292.00	4619	394.00	303
90.00	909	191.00	20792	293.00	18384	395.00	186
91.00	31056	192.00	58848	294.00	6311	396.00	457
92.00	36608	193.00	66760	295.00	12119	397.00	553
93.00	291776	194.00	13950	296.00	339904	398.00	520
94.00	17232	195.00	7155	297.00	47440	399.00	248
95.00	5418	196.00	110936	298.00	4145	400.00	295
96.00	14318	198.00	2983936	299.00	1032	401.00	2960
97.00	2458	199.00	216640	300.00	284	402.00	18432
98.00	238976	200.00	20584	301.00	4403	403.00	23256
99.00	145344	201.00	14875	302.00	5322	404.00	7374
100.00	12916	203.00	36656	303.00	32504	405.00	1622
101.00	80592	204.00	166656	304.00	9132	406.00	456
102.00	3829	205.00	279808	305.00	831	408.00	420
103.00	19968	206.00	972992	306.00	539	408.00	599
104.00	49656	207.00	123696	307.00	644	409.00	142
105.00	47896	208.00	36080	308.00	3703	410.00	1172
106.00	9918	209.00	10645	309.00	3519	411.00	337
107.00	663744	210.00	18056	310.00	4309	412.00	859
108.00	94440	211.00	42584	311.00	920	413.00	739
110.00	907072	212.00	1429	312.00	1934	414.00	653
111.00	153920	213.00	2748	313.00	3645	415.00	1486
112.00	18296	214.00	1262	314.00	15377	416.00	1399
113.00	6909	215.00	12390	315.00	35536	417.00	1109

Report Date: 13-Oct-2021 11:02:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 13-Oct-2021 08:15:30
Spectrum: Tune Spec :Average 208-210(4.89-4.90) Bgrd 203(4.86)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 395

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	1496	216.00	29072	316.00	16680	418.00	1100
115.00	1721	217.00	278336	317.00	3169	420.00	1780
116.00	35264	218.00	37320	318.00	410	420.00	2441
117.00	828736	219.00	4190	319.00	1491	421.00	24624
118.00	54680	220.00	1766	320.00	1847	422.00	18608
119.00	5871	221.00	140224	321.00	10991	423.00	137728
120.00	6140	222.00	37400	322.00	5217	424.00	26504
121.00	1579	223.00	67976	323.00	80136	425.00	3864
122.00	40144	224.00	575424	324.00	15379	426.00	1962
123.00	65128	225.00	140096	325.00	2565	427.00	2686
124.00	28864	226.00	12592	326.00	2603	428.00	3293
125.00	28312	227.00	272832	327.00	20312	429.00	2708
127.00	1743360	228.00	36168	328.00	9760	430.00	3067
128.00	134848	229.00	51408	329.00	1467	431.00	3783
129.00	758784	230.00	7113	330.00	929	432.00	3915
130.00	67008	231.00	20104	331.00	1230	433.00	5222
131.00	12966	232.00	4295	332.00	8228	434.00	5491
132.00	6013	233.00	4696	333.00	9612	436.00	6308
133.00	749	234.00	17744	334.00	56984	436.00	7732
134.00	21624	235.00	19824	335.00	13293	437.00	6416
135.00	60896	236.00	15287	336.00	1405	438.00	14190
136.00	26176	237.00	20448	337.00	617	439.00	17704
137.00	35376	238.00	3002	338.00	540	440.00	14432
138.00	6950	239.00	11329	339.00	1487	441.00	454656
139.00	4887	240.00	7943	340.00	1890	442.00	2823168
140.00	11635	241.00	16680	341.00	9544	443.00	568640
141.00	103704	242.00	34464	342.00	2768	444.00	50616
142.00	31064	243.00	41984	343.00	670	445.00	2436
143.00	24264	244.00	414464	345.00	400	450.00	52
144.00	5764	245.00	56024	345.00	123	485.00	91
145.00	4107	246.00	95736	346.00	21992	507.00	67
146.00	21504	247.00	18352	347.00	3825		

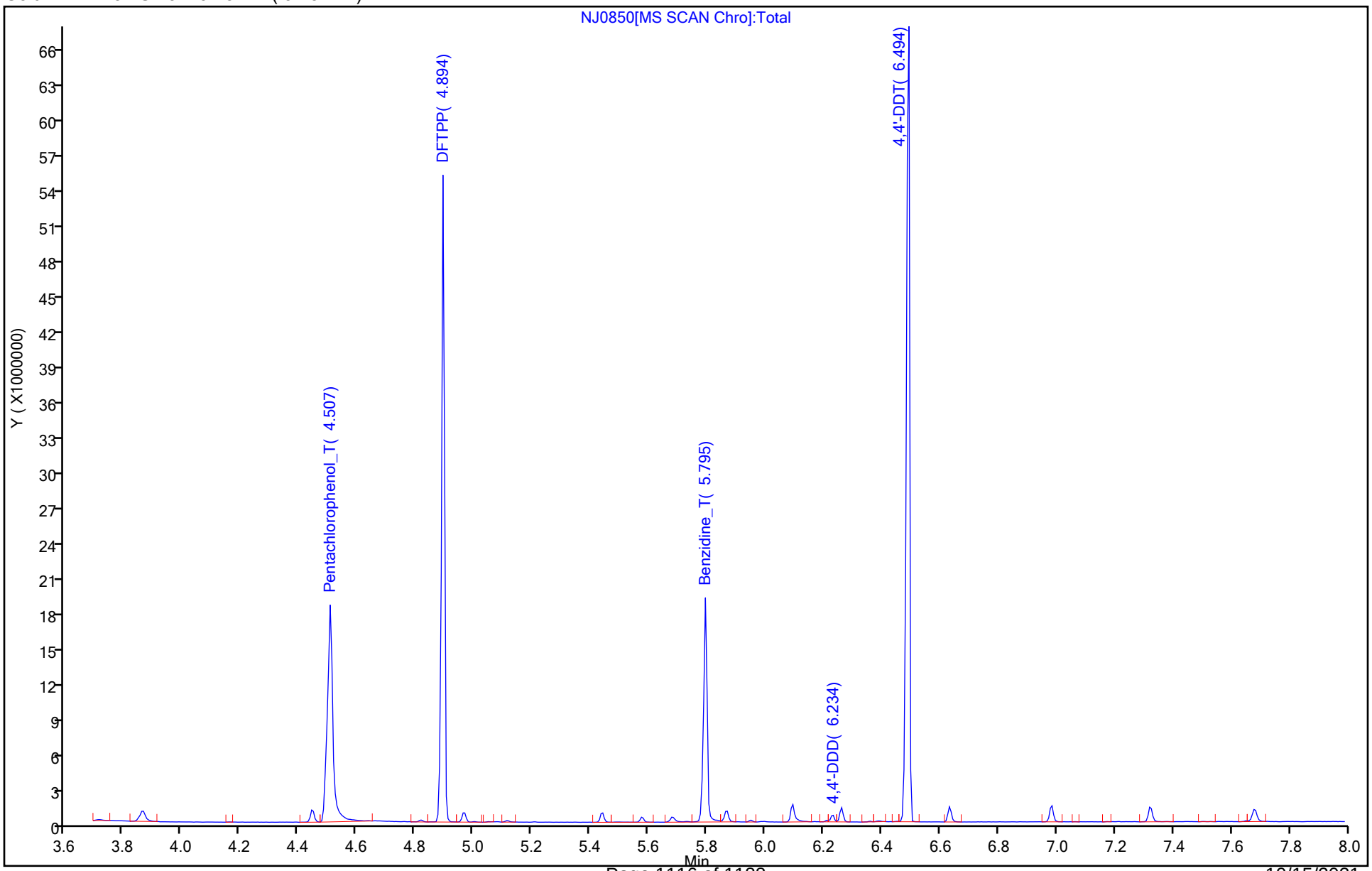
Report Date: 13-Oct-2021 11:02:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D

Injection Date:	13-Oct-2021 08:15:30	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\20211013-41421.b\NJ0850.D
Injection Date: 13-Oct-2021 08:15:30 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

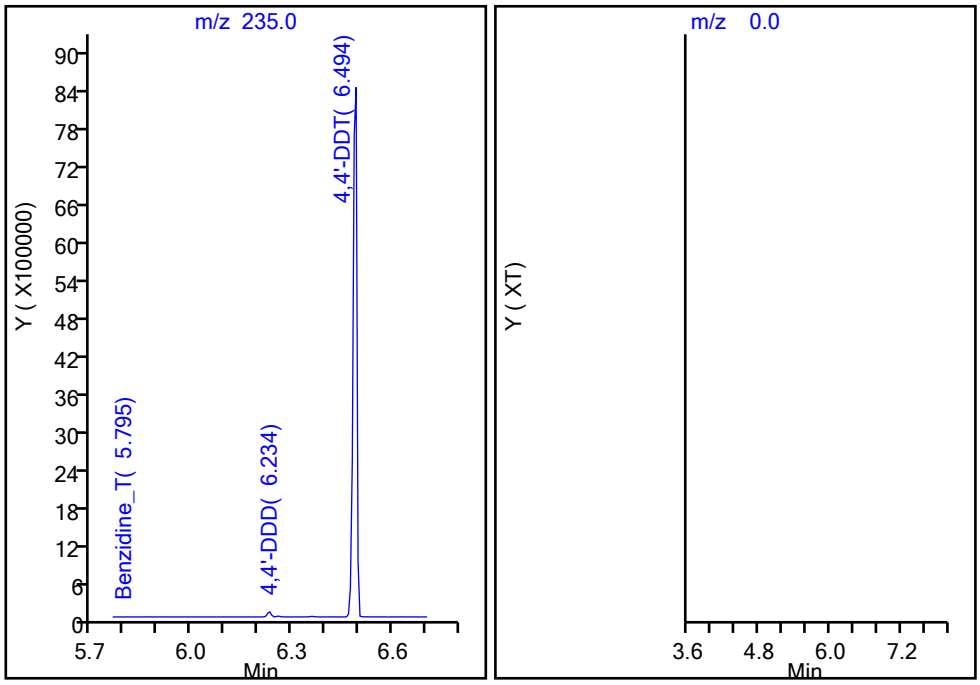
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 6899612
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 85068

%Breakdown: 1.22%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

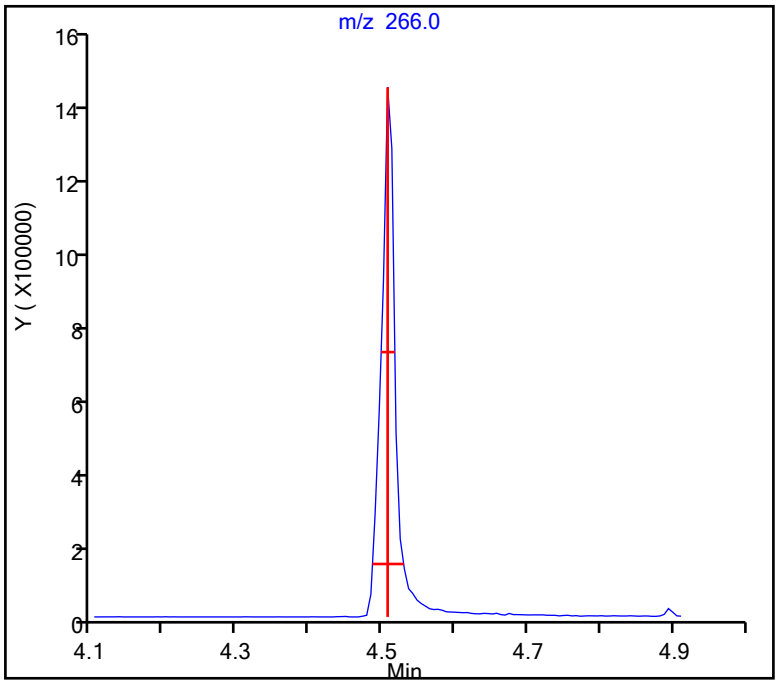
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D
Injection Date: 13-Oct-2021 08:15:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.05, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

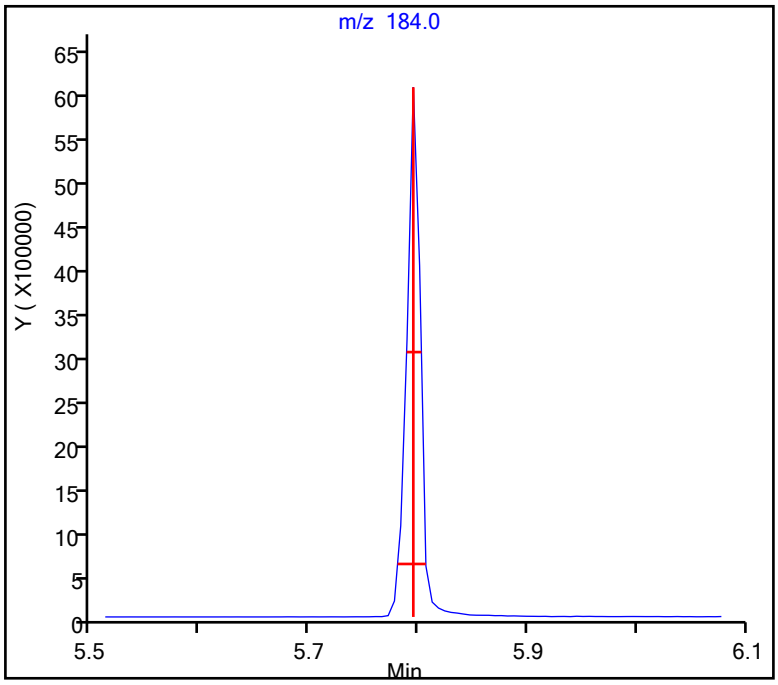
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211013-41421.b\NJ0850.D
Injection Date: 13-Oct-2021 08:15:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.86, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-178578/1-A

Matrix: Water Lab File ID: MJ0502.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 250(mL) Date Analyzed: 10/07/2021 09:43

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.: 179971 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	0.0519	J	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)	75		36-111
93951-69-0	Fluoranthene-d10 (Surr)	97		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0502.D
Lims ID: MB 410-178578/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-Oct-2021 09:43:21 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-178578/1-A
Misc. Info.: 410-0040957-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Oct-2021 15:19:30 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: saadehw Date: 07-Oct-2021 15:03:10

	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	3.592	3.681	0.023	62	9907		0.0613	M
*	4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	97	60412	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.258	9.237	0.021	92	206840	0.2500	0.2500	
	6 Naphthalene	128	9.278	9.278	0.000	94	12457		0.0130	
$	9 1-Methylnaphthalene-d10	152	10.475	10.474	0.000	100	75199	0.2500	0.1878	
*	13 Acenaphthene-d10	164	11.991	11.991	0.000	88	103373	0.2500	0.2500	
*	20 Phenanthrene-d10	188	13.897	13.889	0.008	95	174752	0.2500	0.2500	
$	24 Fluoranthene-d10 (Surr)	212	15.609	15.603	0.006	100	167638	0.2500	0.2422	
*	29 Chrysene-d12	240	18.078	18.063	0.015	55	174658	0.2500	0.2500	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.448	20.448	0.008	99	144398	0.2500	0.2099	
*	38 Perylene-d12	264	20.579	20.571	0.007	100	193417	0.2500	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

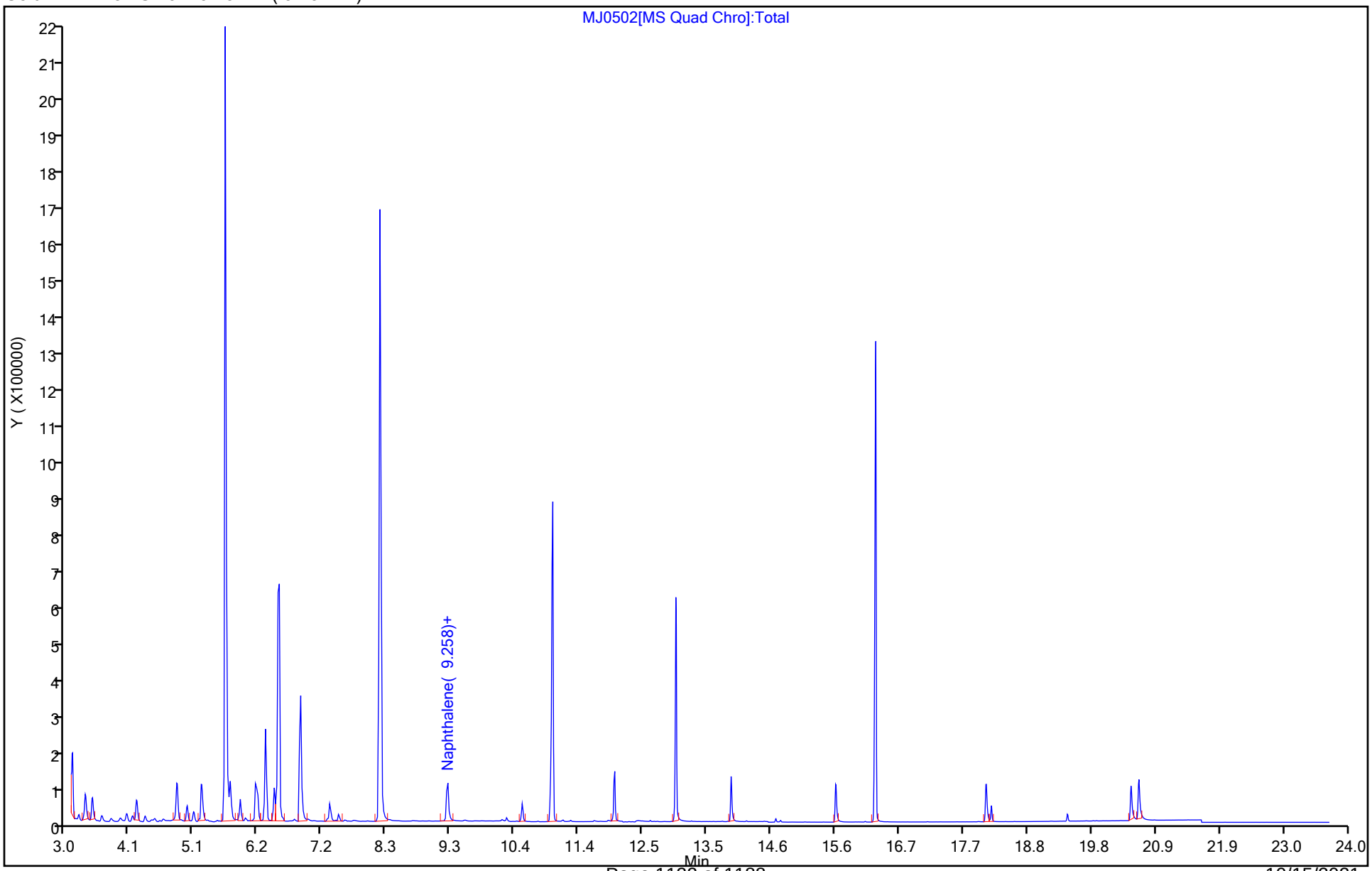
Report Date: 07-Oct-2021 15:20:32 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0502.D

Injection Date:	07-Oct-2021 09:43:21	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	MB 410-178578/1-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)



Report Date: 07-Oct-2021 15:20:32 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0502.D

Injection Date: 07-Oct-2021 09:43:21 Instrument ID: HP21585

Lims ID: MB 410-178578/1-A

Client ID:

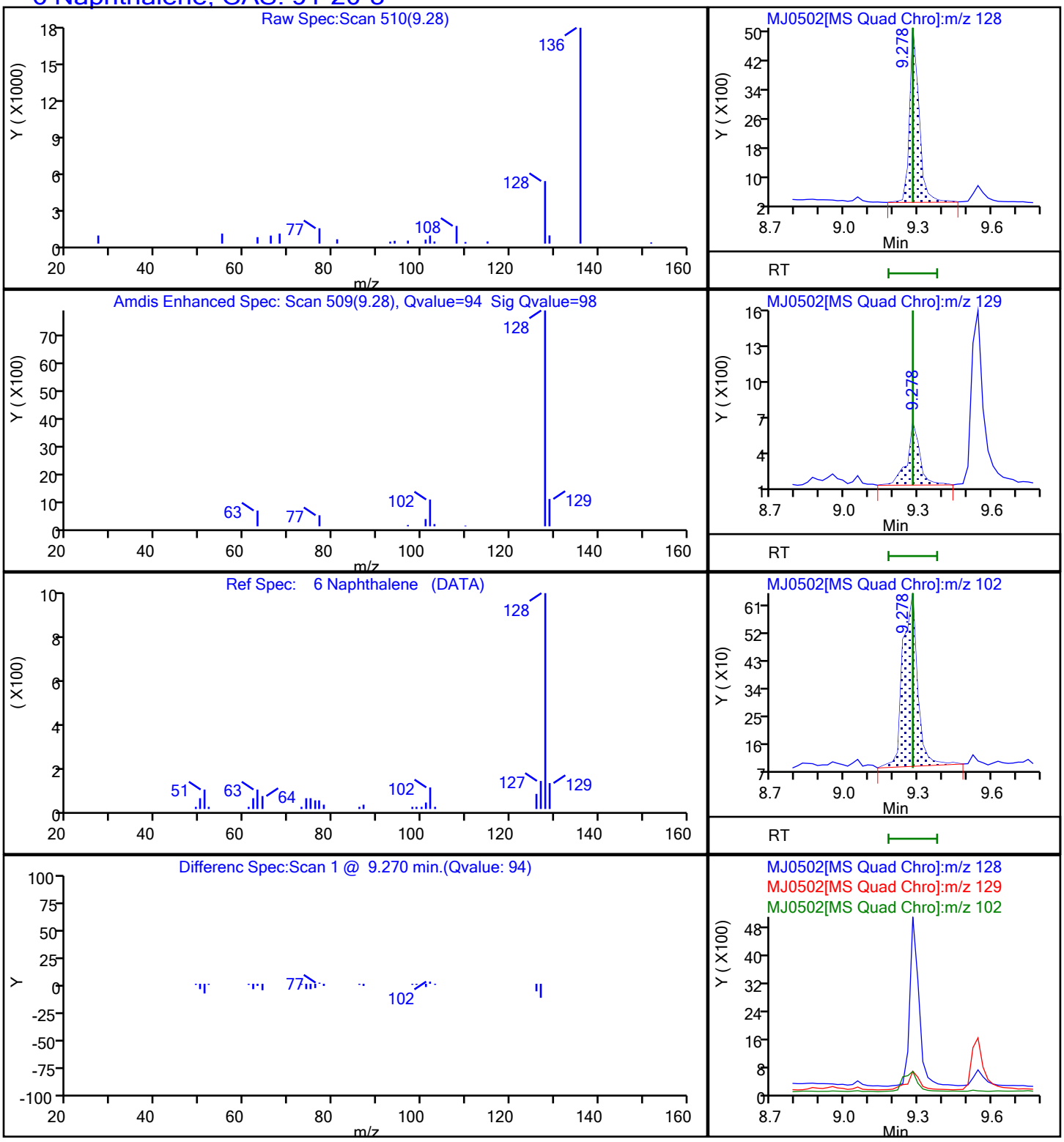
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3

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

6 Naphthalene, CAS: 91-20-3



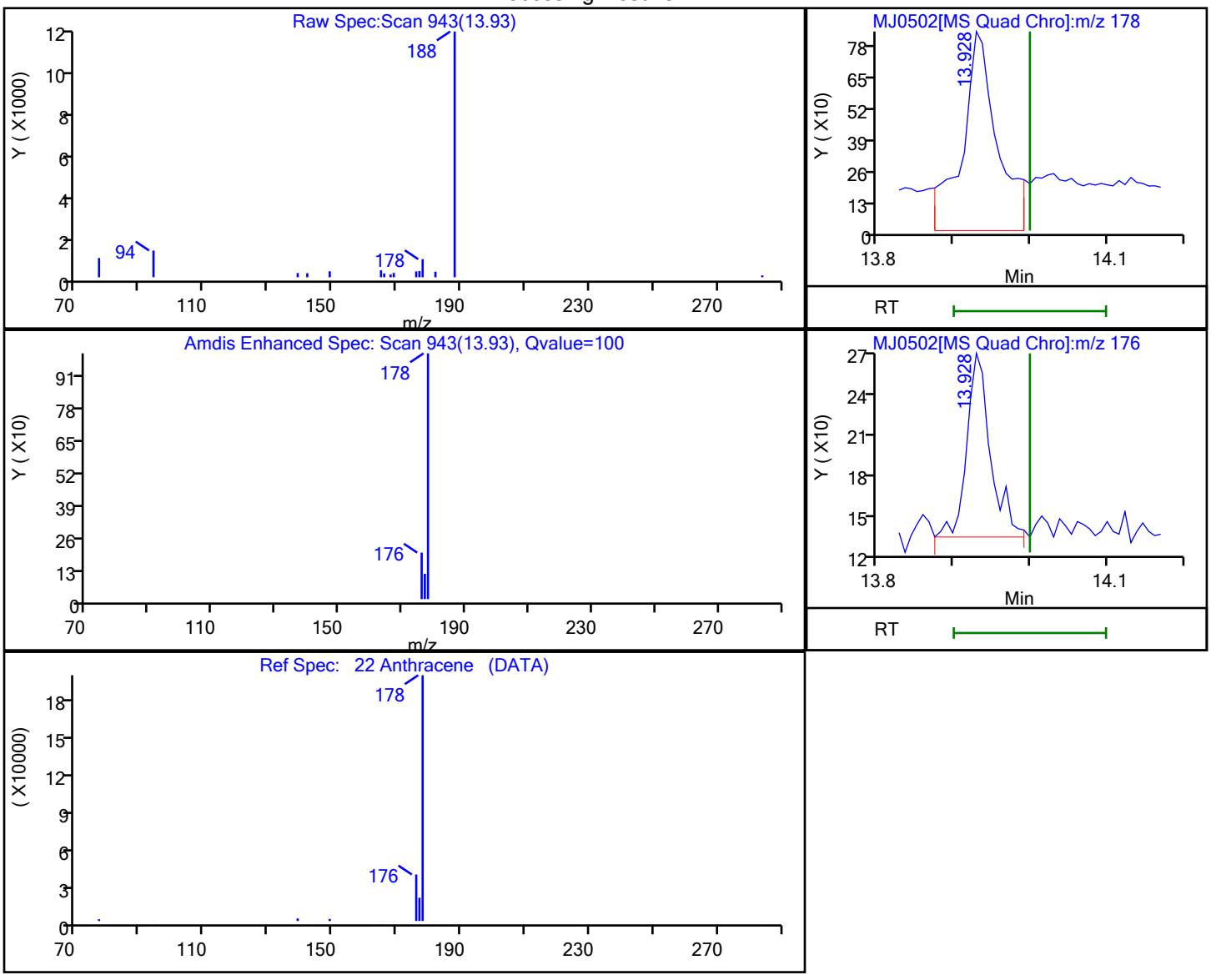
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0502.D				
Injection Date:	07-Oct-2021 09:43:21	Instrument ID:	HP21585		
Lims ID:	MB 410-178578/1-A				
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		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
13.93	178.00	2602	0.003139
13.93	176.00	282	

Reviewer: saadehw, 07-Oct-2021 15:03:04

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.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-179899/1-A

Matrix: Water Lab File ID: NJ0762.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 250(mL) Date Analyzed: 10/11/2021 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.: 181246 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)	91		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	85		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\20211011-41227.b\NJ0762.D
Lims ID: MB 410-179899/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Oct-2021 09:59:30 ALS Bottle#: 3 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-179899/1-A
Misc. Info.: 410-0041227-022
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 22:40:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: saadehw Date: 11-Oct-2021 22:26:35

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	6.267	6.267	0.000	85	71893	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	222184	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.547	9.561	0.000	100	96604	0.2500	0.2125	
* 13 Acenaphthene-d10	164	11.140	11.140	0.000	94	108768	0.2500	0.2500	
14 Acenaphthene	154	11.190	11.199	0.000	1	105		0.000204	7M
* 20 Phenanthrene-d10	188	13.063	13.063	0.000	100	184878	0.2500	0.2500	
22 Anthracene	178	13.145	13.161	-0.010	39	0		0	7a
$ 24 Fluoranthene-d10 (Surr)	212	14.713	14.718	0.000	98	170838	0.2500	0.2269	
* 29 Chrysene-d12	240	17.120	17.120	0.000	81	134653	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.459	19.467	-0.008	99	105033	0.2500	0.2277	
* 38 Perylene-d12	264	19.590	19.597	-0.007	98	124930	0.2500	0.2500	M

QC Flag Legend

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

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

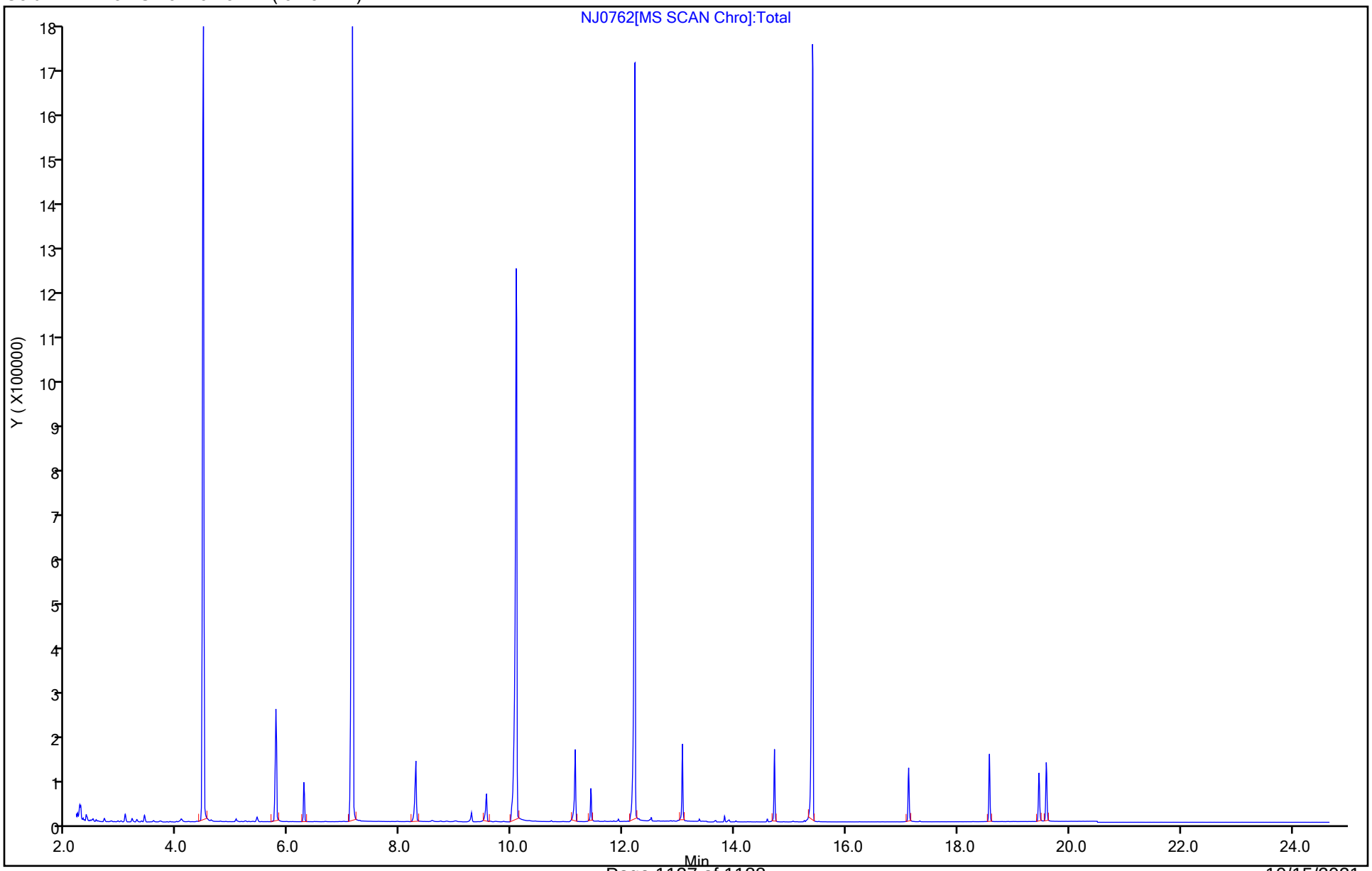
Report Date: 11-Oct-2021 22:40:18 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0762.D

Injection Date:	11-Oct-2021 09:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-179899/1-A			Worklist Smp#:	22
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)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

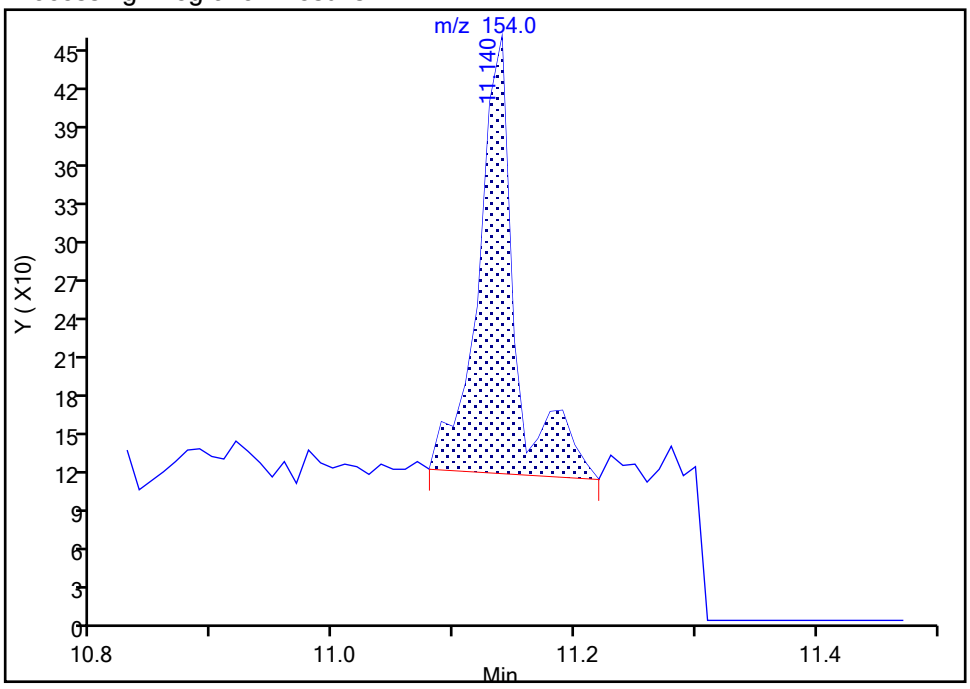
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0762.D		
Injection Date:	11-Oct-2021 09:59:30	Instrument ID:	HP23263
Lims ID:	MB 410-179899/1-A		
Client ID:			
Operator ID:	jmg00346	ALS Bottle#:	3 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	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

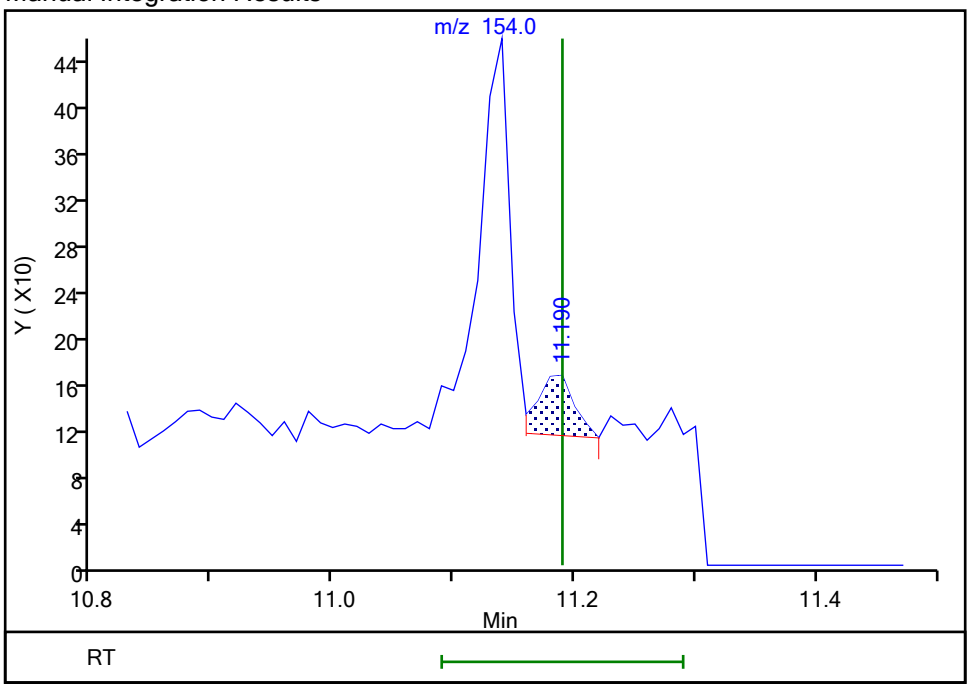
Processing Integration Results

RT: 11.14
Area: 716
Amount: 0.001391
Amount Units: ug/ml



Manual Integration Results

RT: 11.19
Area: 105
Amount: 0.000204
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:26:26

Audit Action: Split an Integrated Peak Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

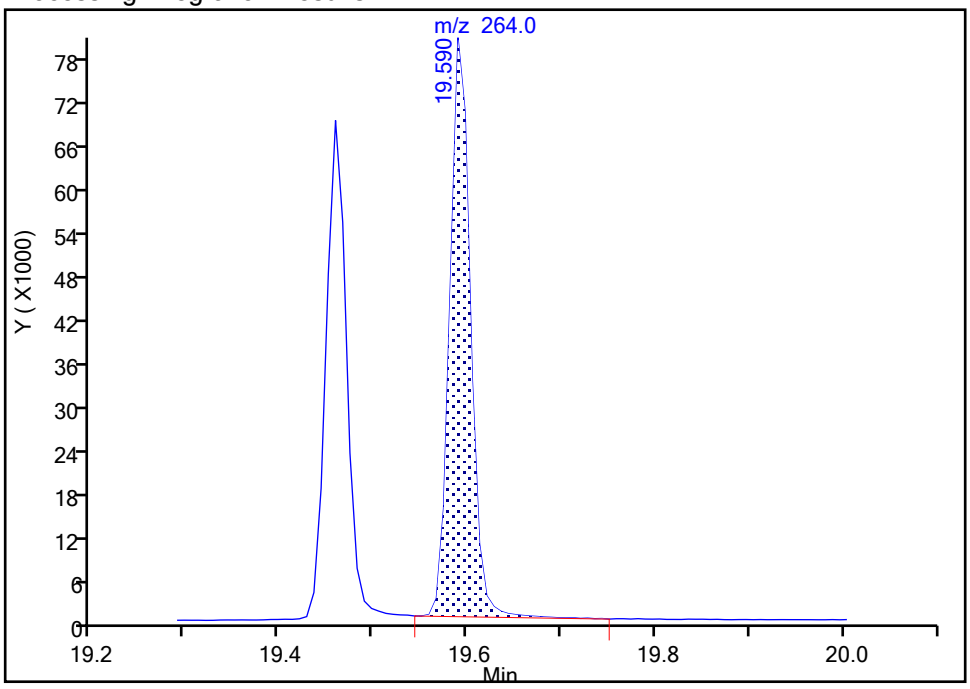
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0762.D
Injection Date: 11-Oct-2021 09:59:30 Instrument ID: HP23263
Lims ID: MB 410-179899/1-A
Client ID:
Operator ID: jmg00346 ALS Bottle#: 3 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

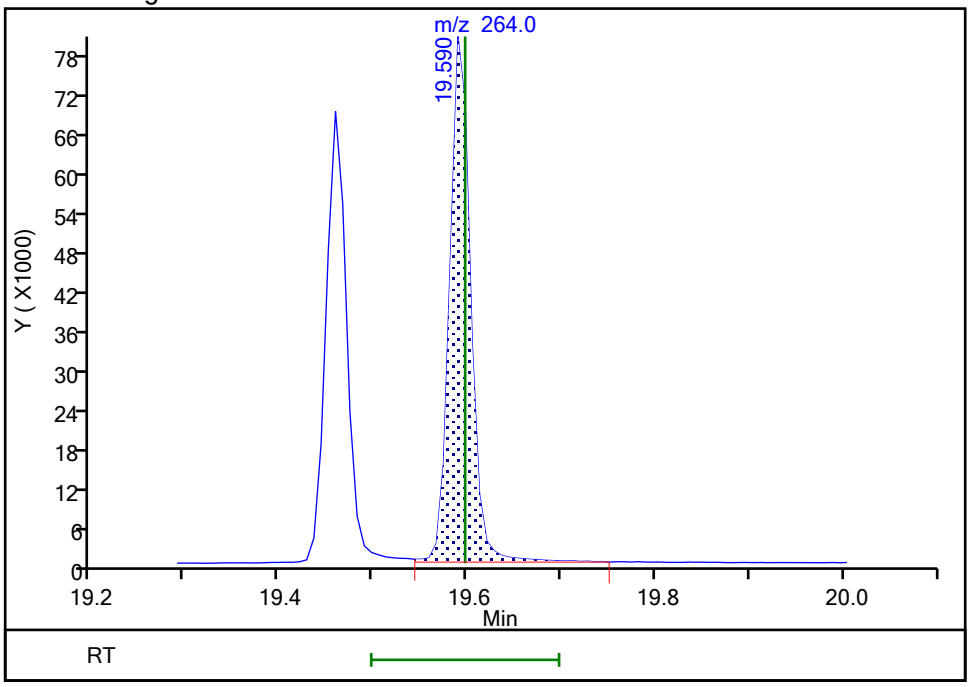
Processing Integration Results

RT: 19.59
Area: 122247
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 19.59
Area: 124930
Amount: 0.250000
Amount Units: ug/ml



Reviewer: saadehw, 11-Oct-2021 22:26:13
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-181417/1-A

Matrix: Water Lab File ID: MJ0712.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 250(mL) Date Analyzed: 10/12/2021 09:02

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.: 181586 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)	69		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\HP21585\20211012-41301.b\MJ0712.D
Lims ID: MB 410-181417/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Oct-2021 09:02:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-181417/1-A
Misc. Info.: 410-0041301-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 12-Oct-2021 17:44:31 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 12-Oct-2021 17:38:17

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	7.341	7.341	0.000	95	62819	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.258	9.237	0.021	92	230138	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.475	10.498	0.000	100	76478	0.2500	0.1717	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	92	113253	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.889	13.881	0.008	95	187364	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.609	15.605	0.012	100	158015	0.2500	0.2129	
* 29 Chrysene-d12	240	18.071	18.055	0.016	65	168326	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.441	20.433	0.016	100	121911	0.2500	0.1907	
* 38 Perylene-d12	264	20.563	20.556	0.007	99	179694	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

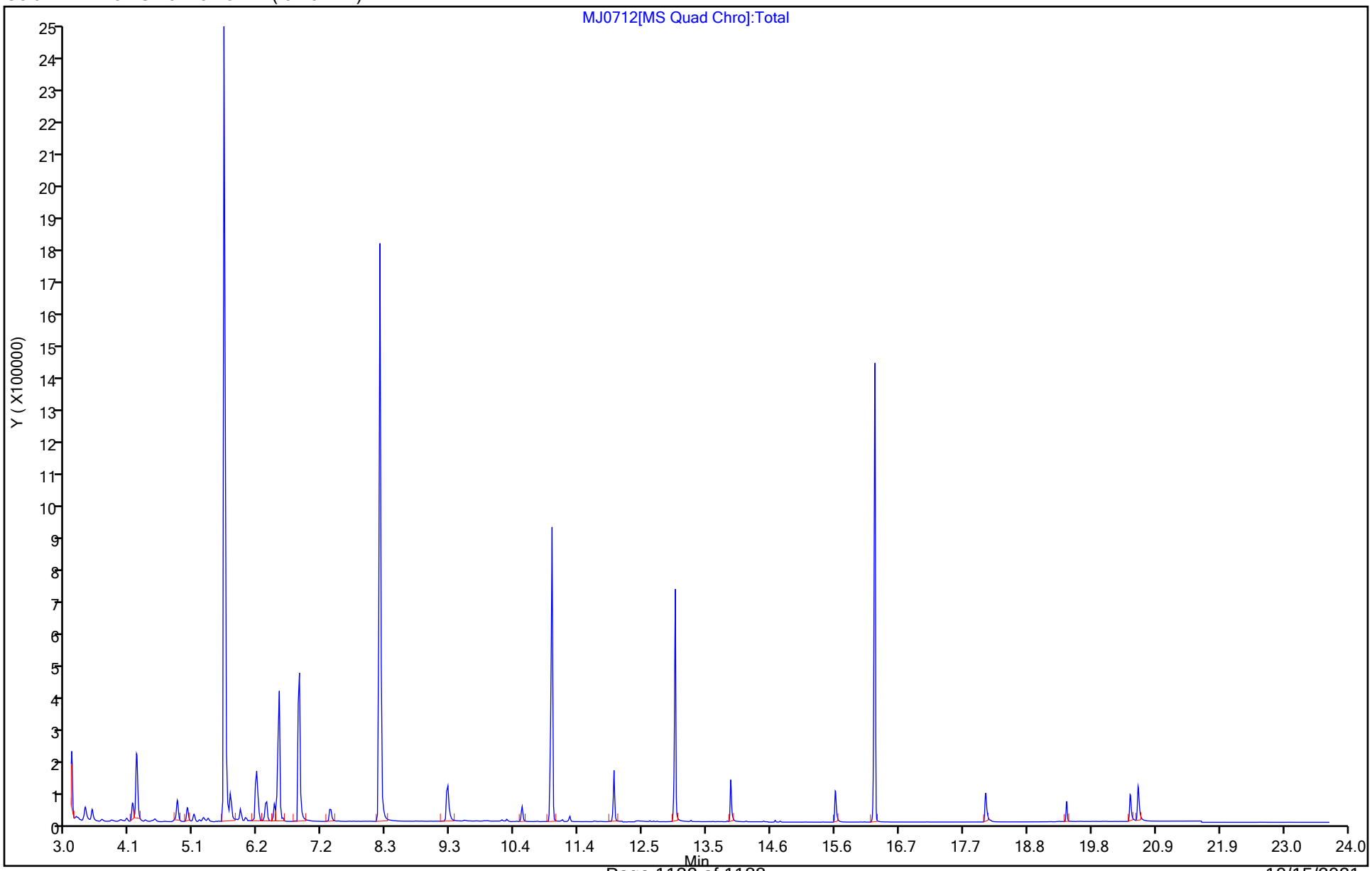
Report Date: 12-Oct-2021 17:44:39 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0712.D

Injection Date:	12-Oct-2021 09:02:00	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	MB 410-181417/1-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)



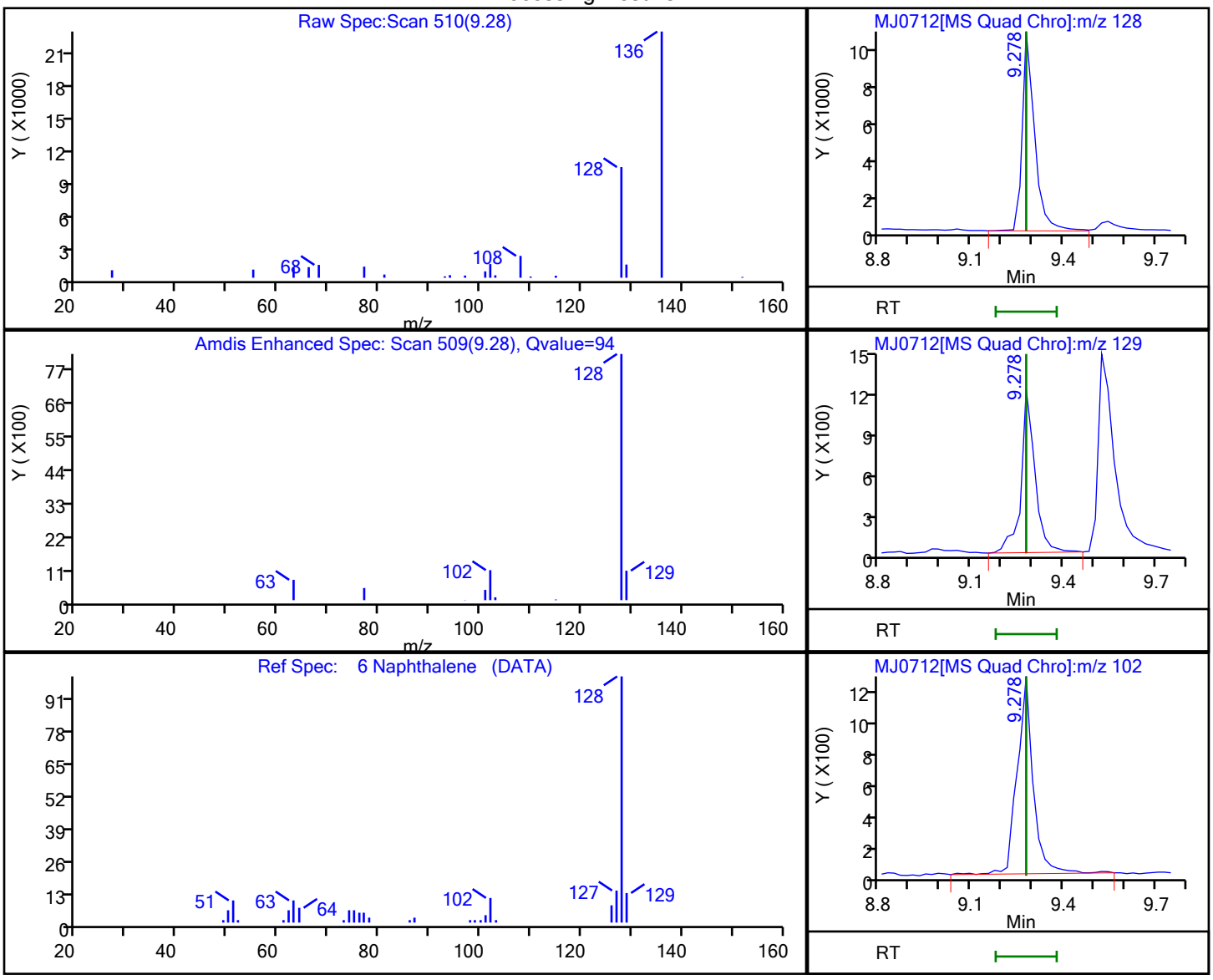
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0712.D				
Injection Date:	12-Oct-2021 09:02:00	Instrument ID:	HP21585		
Lims ID:	MB 410-181417/1-A				
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		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
9.28	128.00	28700	0.026845
9.28	129.00	3590	
9.28	102.00	4341	

Reviewer: transuea, 12-Oct-2021 17:38:14

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.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-178578/2-A

Matrix: Water Lab File ID: MJ0503.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 250(mL) Date Analyzed: 10/07/2021 10:12

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.: 179971 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.744		0.050	0.010
208-96-8	Acenaphthylene	0.777		0.050	0.010
120-12-7	Anthracene	0.871		0.050	0.010
56-55-3	Benzo[a]anthracene	0.828		0.050	0.010
50-32-8	Benzo[a]pyrene	0.914		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.802		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.827		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.870		0.050	0.010
218-01-9	Chrysene	0.822		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.876		0.050	0.020
206-44-0	Fluoranthene	0.888		0.050	0.010
86-73-7	Fluorene	0.775		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.21		0.050	0.020
91-20-3	Naphthalene	0.747		0.070	0.030
85-01-8	Phenanthrene	0.793		0.070	0.030
129-00-0	Pyrene	0.741		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	93		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	86		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\HP21585\20211007-40957.b\MJ0503.D
Lims ID: LCS 410-178578/2-A
Client ID:
Sample Type: LCS
Inject. Date: 07-Oct-2021 10:12:56 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-178578/2-A
Misc. Info.: 410-0040957-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Oct-2021 15:19:30 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: saadehw Date: 07-Oct-2021 15:03:36

	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	3.614	3.681	0.045	84	24704	0.2500	0.1468	
*	4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	97	62865	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.237	9.237	0.000	92	209350	0.2500	0.2500	
	6 Naphthalene	128	9.278	9.278	0.000	93	181583	0.2500	0.1867	
$	9 1-Methylnaphthalene-d10	152	10.475	10.474	0.000	100	87269	0.2500	0.2154	
	12 Acenaphthylene	152	11.783	11.783	0.000	100	174737	0.2500	0.1942	
*	13 Acenaphthene-d10	164	11.978	11.991	-0.013	96	107434	0.2500	0.2500	
	14 Acenaphthene	154	12.027	12.027	0.000	93	101716	0.2500	0.1860	
	17 Fluorene	166	12.687	12.687	0.000	96	124465	0.2500	0.1937	
*	20 Phenanthrene-d10	188	13.889	13.889	0.000	95	183517	0.2500	0.2500	
	21 Phenanthrene	178	13.920	13.920	0.000	100	188561	0.2500	0.1982	
	22 Anthracene	178	13.998	13.991	0.000	100	189504	0.2500	0.2177	
$	24 Fluoranthene-d10 (Surr)	212	15.609	15.603	0.006	100	183128	0.2500	0.2520	
	25 Fluoranthene	202	15.634	15.634	0.000	100	222835	0.2500	0.2220	
	26 Pyrene	202	15.991	15.998	0.000	100	229461	0.2500	0.1853	
	28 Benzo[a]anthracene	228	18.048	18.047	0.000	100	221812	0.2500	0.2069	
*	29 Chrysene-d12	240	18.063	18.063	0.000	81	186454	0.2500	0.2500	
	30 Chrysene	228	18.109	18.116	0.000	100	244469	0.2500	0.2056	
	33 Benzo[b]fluoranthene	252	19.934	19.950	0.000	100	224385	0.2500	0.2006	
	34 Benzo[k]fluoranthene	252	19.988	19.988	0.008	100	259602	0.2500	0.2175	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.440	20.448	0.000	100	162835	0.2500	0.2322	
	37 Benzo[a]pyrene	252	20.479	20.486	0.000	100	238201	0.2500	0.2285	
*	38 Perylene-d12	264	20.571	20.571	0.000	99	197127	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	22.362	22.369	0.007	98	253594	0.2500	0.3030	
	41 Dibenz(a,h)anthracene	278	22.397	22.404	0.007	94	212229	0.2500	0.2190	
	42 Benzo[g,h,i]perylene	276	22.849	22.858	0.000	100	211381	0.2500	0.2067	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

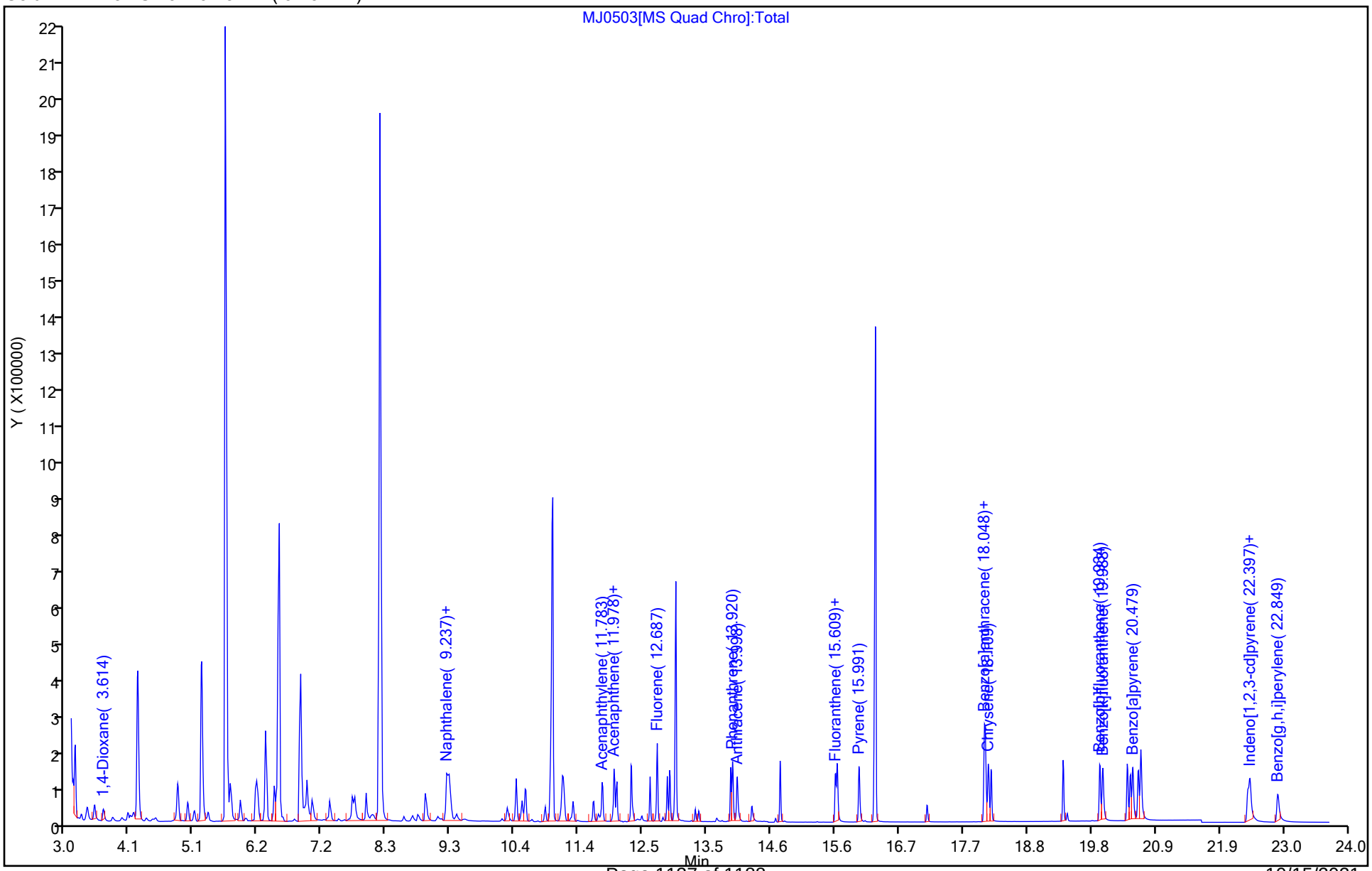
Report Date: 07-Oct-2021 15:20:33 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0503.D

Injection Date:	07-Oct-2021 10:12:56	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCS 410-178578/2-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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-179899/2-A

Matrix: Water Lab File ID: NJ0763.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 250(mL) Date Analyzed: 10/11/2021 10:29

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.: 181246 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.767		0.050	0.010
208-96-8	Acenaphthylene	0.825		0.050	0.010
120-12-7	Anthracene	0.864		0.050	0.010
56-55-3	Benzo[a]anthracene	0.864		0.050	0.010
50-32-8	Benzo[a]pyrene	0.933		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.848		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	1.05		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.921		0.050	0.010
218-01-9	Chrysene	0.885		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.14		0.050	0.020
206-44-0	Fluoranthene	0.826		0.050	0.010
86-73-7	Fluorene	0.770		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.09		0.050	0.020
91-20-3	Naphthalene	0.710		0.070	0.030
85-01-8	Phenanthrene	0.818		0.070	0.030
129-00-0	Pyrene	0.898		0.050	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)	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\20211011-41227.b\NJ0763.D
Lims ID: LCS 410-179899/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Oct-2021 10:29:30 ALS Bottle#: 4 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-179899/2-A
Misc. Info.: 410-0041227-023
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 22:40:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: saadehw Date: 11-Oct-2021 22:26:51

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	6.280	6.267	0.013	99	74182	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	228075	0.2500	0.2500	
6 Naphthalene	128	8.304	8.317	0.000	98	179050	0.2500	0.1776	
8 2-Methylnaphthalene	142	9.444	9.447	-0.003	96	120302	0.2500	0.1755	
$ 9 1-Methylnaphthalene-d10	152	9.545	9.561	-0.002	100	89218	0.2500	0.1912	
12 Acenaphthylene	152	10.897	10.897	-0.002	99	201163	0.2500	0.2062	
* 13 Acenaphthene-d10	164	11.137	11.140	-0.003	92	112454	0.2500	0.2500	
14 Acenaphthene	154	11.187	11.199	-0.003	95	102078	0.2500	0.1918	
17 Fluorene	166	11.910	11.902	0.006	98	132160	0.2500	0.1925	
* 20 Phenanthrene-d10	188	13.060	13.063	-0.003	100	189351	0.2500	0.2500	
21 Phenanthrene	178	13.091	13.099	-0.003	99	197005	0.2500	0.2045	
22 Anthracene	178	13.153	13.161	-0.002	98	188472	0.2500	0.2160	
$ 24 Fluoranthene-d10 (Surr)	212	14.712	14.718	-0.001	99	167300	0.2500	0.2169	
25 Fluoranthene	202	14.743	14.743	-0.001	98	211206	0.2500	0.2064	
26 Pyrene	202	15.082	15.082	-0.001	97	220008	0.2500	0.2245	
28 Benzo[a]anthracene	228	17.104	17.112	-0.001	99	178790	0.2500	0.2159	
* 29 Chrysene-d12	240	17.119	17.120	-0.001	91	136600	0.2500	0.2500	
30 Chrysene	228	17.165	17.165	-0.001	100	177244	0.2500	0.2214	
33 Benzo[b]fluoranthene	252	18.967	18.976	-0.009	100	164731	0.2500	0.2120	
34 Benzo[k]fluoranthene	252	19.013	19.021	-0.009	100	186916	0.2500	0.2303	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.458	19.467	-0.009	99	107244	0.2500	0.2259	
37 Benzo[a]pyrene	252	19.497	19.505	-0.008	100	165905	0.2500	0.2333	
* 38 Perylene-d12	264	19.596	19.597	-0.001	96	128582	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.229	21.230	-0.001	98	135185	0.2500	0.2716	
41 Dibenz(a,h)anthracene	278	21.279	21.286	-0.008	99	143200	0.2500	0.2846	
42 Benzo[g,h,i]perylene	276	21.646	21.653	-0.008	100	154828	0.2500	0.2627	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

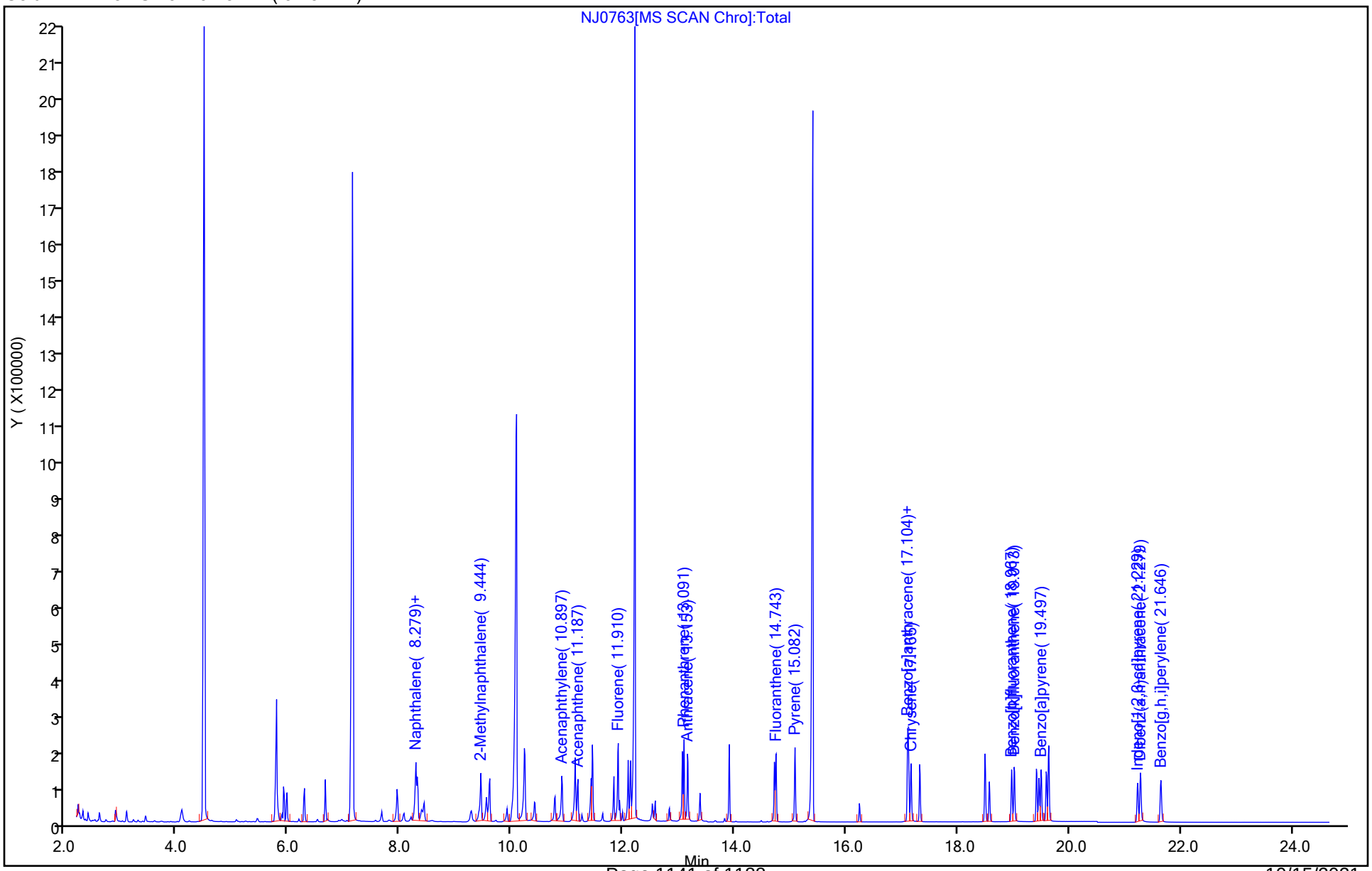
Report Date: 11-Oct-2021 22:40:17 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0763.D

Injection Date:	11-Oct-2021 10:29:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-179899/2-A			Worklist Smp#:	23
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.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-181417/2-A

Matrix: Water Lab File ID: MJ0713.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 250(mL) Date Analyzed: 10/12/2021 09:31

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.: 181586 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.738*		*0.050*	*0.010*
208-96-8	*Acenaphthylene*	*0.761*		*0.050*	*0.010*
120-12-7	*Anthracene*	*0.800*		*0.050*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.770*		*0.050*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.872*		*0.050*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.757*		*0.050*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.844*		*0.050*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.874*		*0.050*	*0.010*
218-01-9	*Chrysene*	*0.827*		*0.050*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.860*		*0.050*	*0.020*
206-44-0	*Fluoranthene*	*0.841*		*0.050*	*0.010*
86-73-7	*Fluorene*	*0.761*		*0.050*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.813*		*0.050*	*0.020*
91-20-3	*Naphthalene*	*0.720*		*0.070*	*0.030*
85-01-8	*Phenanthrene*	*0.814*		*0.070*	*0.030*
129-00-0	*Pyrene*	*0.759*		*0.050*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	92		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		36-111
93951-69-0	Fluoranthene-d10 (Surr)	97		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0713.D
Lims ID: LCS 410-181417/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Oct-2021 09:31:42 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-181417/2-A
Misc. Info.: 410-0041301-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 12-Oct-2021 17:44:31 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 12-Oct-2021 17:38:42

	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	3.621	3.577	0.059	90	26843	0.2500	0.1629	
*	4 1,4-Dichlorobenzene-d4	152	7.320	7.341	-0.021	100	61550	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.237	9.237	0.000	92	220376	0.2500	0.2500	
	6 Naphthalene	128	9.278	9.299	0.000	94	184389	0.2500	0.1801	
$	9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	92563	0.2500	0.2170	
	12 Acenaphthylene	152	11.783	11.783	0.000	100	177715	0.2500	0.1902	
*	13 Acenaphthene-d10	164	11.978	11.978	0.000	91	111571	0.2500	0.2500	
	14 Acenaphthene	154	12.015	12.015	0.000	92	104835	0.2500	0.1846	
	17 Fluorene	166	12.679	12.679	0.000	96	127009	0.2500	0.1903	
*	20 Phenanthrene-d10	188	13.881	13.881	0.000	97	189329	0.2500	0.2500	
	21 Phenanthrene	178	13.912	13.920	-0.001	100	199747	0.2500	0.2035	
	22 Anthracene	178	13.990	13.998	-0.001	100	179607	0.2500	0.2000	
$	24 Fluoranthene-d10 (Surr)	212	15.596	15.605	-0.001	100	181486	0.2500	0.2420	
	25 Fluoranthene	202	15.628	15.637	0.000	100	217574	0.2500	0.2101	
	26 Pyrene	202	15.985	15.992	0.000	100	222699	0.2500	0.1897	
	28 Benzo[a]anthracene	228	18.040	18.040	0.008	100	195548	0.2500	0.1924	
*	29 Chrysene-d12	240	18.055	18.055	0.000	88	176793	0.2500	0.2500	
	30 Chrysene	228	18.101	18.109	0.000	100	233229	0.2500	0.2068	
	33 Benzo[b]fluoranthene	252	19.927	19.926	0.007	100	194732	0.2500	0.1892	
	34 Benzo[k]fluoranthene	252	19.973	19.980	0.000	100	239877	0.2500	0.2184	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.433	0.000	99	148395	0.2500	0.2300	
	37 Benzo[a]pyrene	252	20.463	20.471	-0.001	100	209141	0.2500	0.2180	
*	38 Perylene-d12	264	20.555	20.556	-0.001	99	181411	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	22.348	22.348	0.014	98	156577	0.2500	0.2033	M
	41 Dibenz(a,h)anthracene	278	22.383	22.385	0.007	94	191756	0.2500	0.2151	
	42 Benzo[g,h,i]perylene	276	22.842	22.844	0.007	100	198569	0.2500	0.2110	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

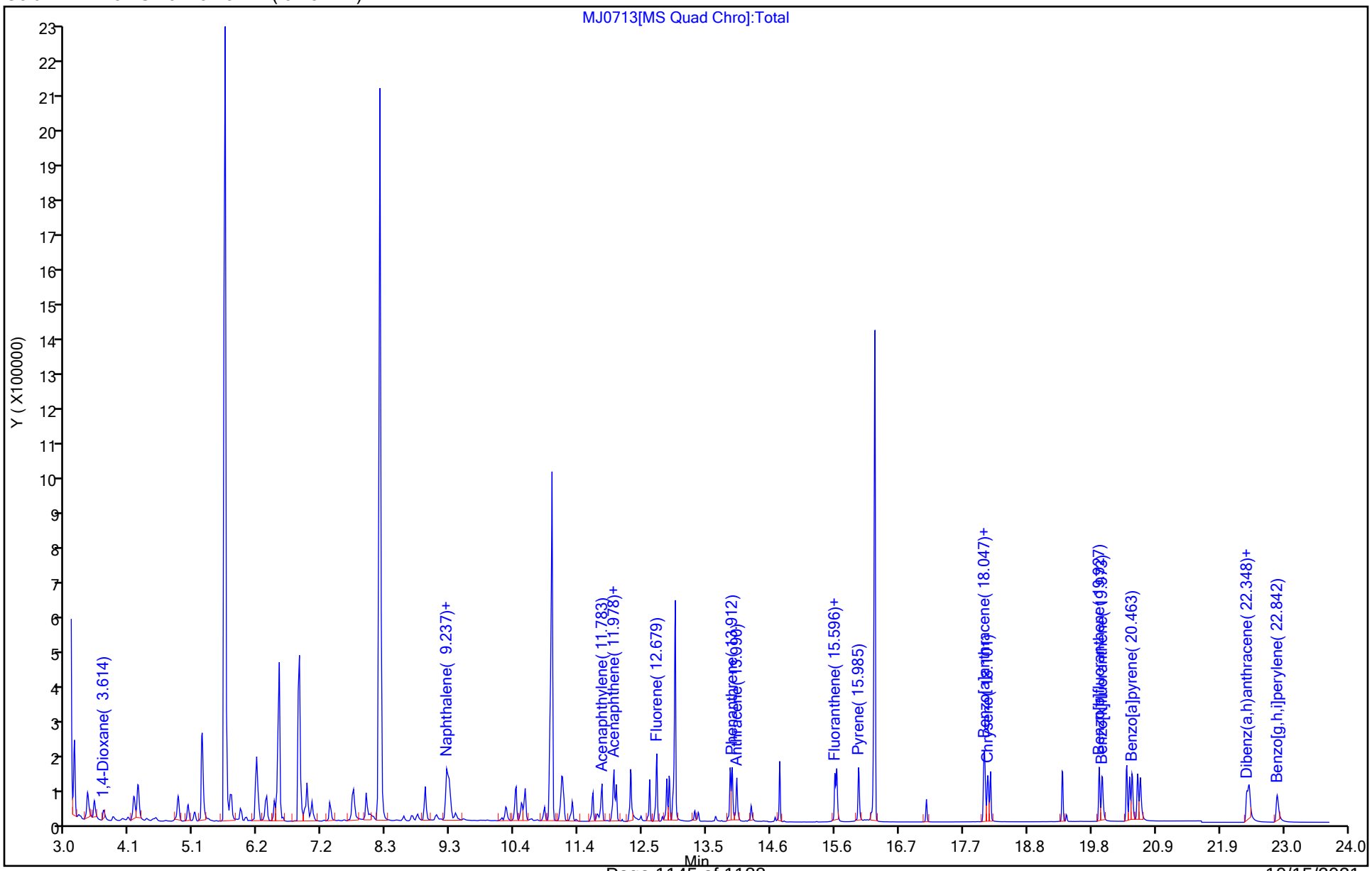
Report Date: 12-Oct-2021 17:44:40 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0713.D

Injection Date:	12-Oct-2021 09:31:42	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCS 410-181417/2-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

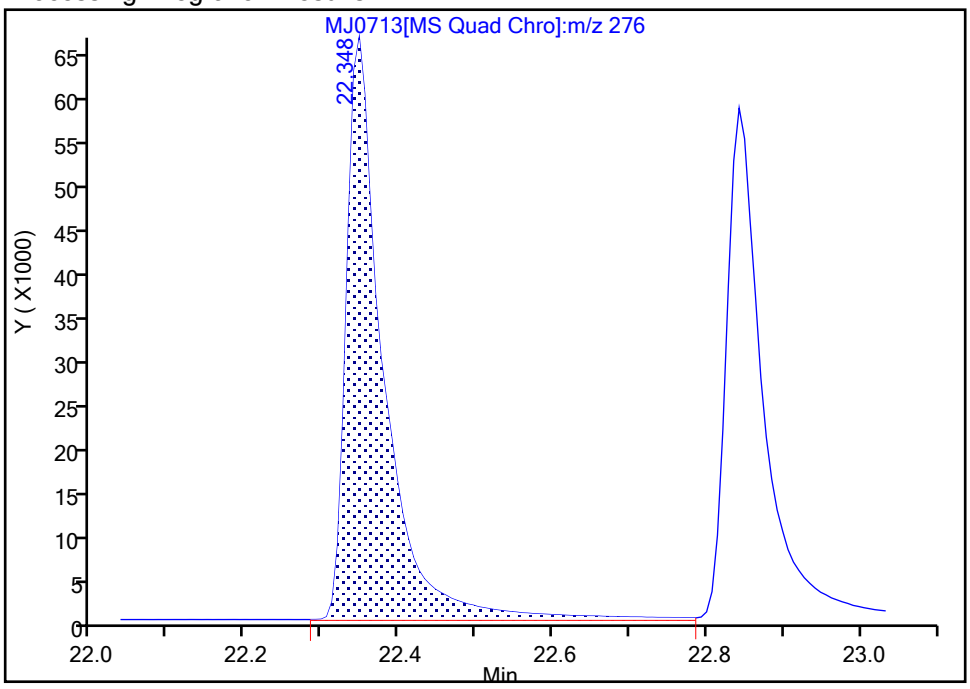
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0713.D				
Injection Date:	12-Oct-2021 09:31:42	Instrument ID:	HP21585		
Lims ID:	LCS 410-181417/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

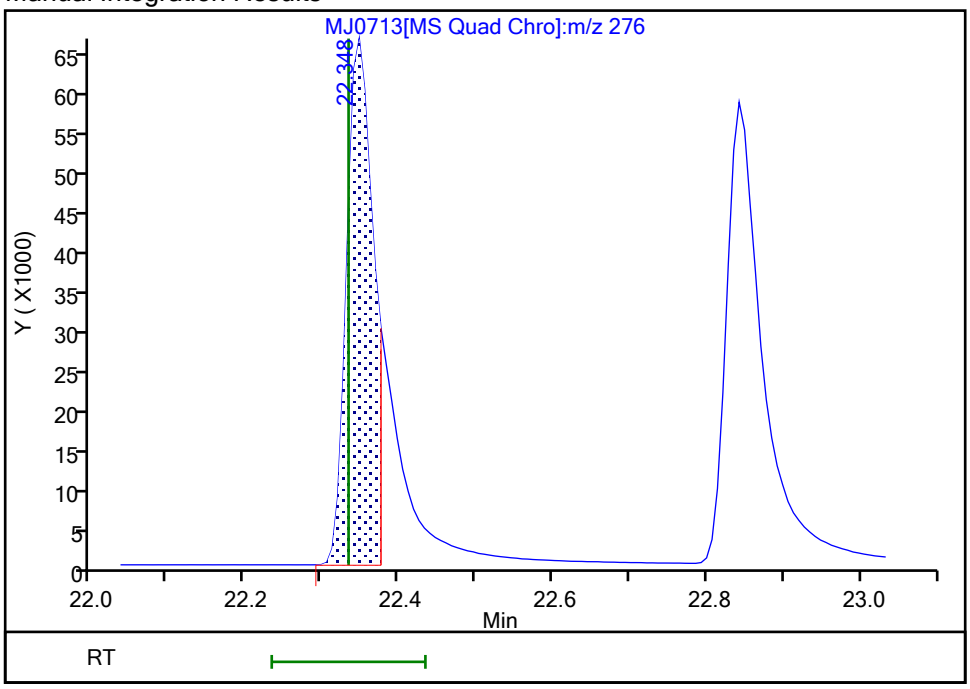
Processing Integration Results

RT: 22.35
Area: 227006
Amount: 0.294747
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 156577
Amount: 0.203301
Amount Units: ug/ml



Reviewer: transuea, 12-Oct-2021 17:39:29

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.: 410-57303-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-179899/3-A

Matrix: Water Lab File ID: NJ0764.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 10/07/2021 09:17

Sample wt/vol: 250(mL) Date Analyzed: 10/11/2021 11:00

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.: 181246 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.763		0.050	0.010
208-96-8	Acenaphthylene	0.812		0.050	0.010
120-12-7	Anthracene	0.816		0.050	0.010
56-55-3	Benzo[a]anthracene	0.871		0.050	0.010
50-32-8	Benzo[a]pyrene	0.901		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.851		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.994		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.859		0.050	0.010
218-01-9	Chrysene	0.855		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.03		0.050	0.020
206-44-0	Fluoranthene	0.754		0.050	0.010
86-73-7	Fluorene	0.761		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.03		0.050	0.020
91-20-3	Naphthalene	0.694		0.070	0.030
85-01-8	Phenanthrene	0.796		0.070	0.030
129-00-0	Pyrene	0.839		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)	72		36-111
93951-69-0	Fluoranthene-d10 (Surr)	79		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0764.D
Lims ID: LCSD 410-179899/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Oct-2021 11:00:30 ALS Bottle#: 5 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-179899/3-A
Misc. Info.: 410-0041227-024
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 11-Oct-2021 22:40:10 Calib Date: 08-Oct-2021 06:57:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211008-41032.b\NJ0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: saadehw Date: 11-Oct-2021 22:26:56

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	6.280	6.267	0.013	98	74349	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.279	8.279	0.000	100	225222	0.2500	0.2500	
6 Naphthalene	128	8.304	8.317	0.000	99	172843	0.2500	0.1736	
8 2-Methylnaphthalene	142	9.445	9.447	-0.003	97	112910	0.2500	0.1668	
$ 9 1-Methylnaphthalene-d10	152	9.545	9.561	-0.002	100	82725	0.2500	0.1795	
12 Acenaphthylene	152	10.897	10.897	-0.002	99	190307	0.2500	0.2031	
* 13 Acenaphthene-d10	164	11.137	11.140	-0.003	92	108041	0.2500	0.2500	
14 Acenaphthene	154	11.187	11.199	-0.003	95	97529	0.2500	0.1907	
17 Fluorene	166	11.910	11.902	0.006	98	125563	0.2500	0.1904	
* 20 Phenanthrene-d10	188	13.060	13.063	-0.003	100	184802	0.2500	0.2500	
21 Phenanthrene	178	13.091	13.099	-0.003	100	187231	0.2500	0.1991	
22 Anthracene	178	13.153	13.161	-0.002	97	173631	0.2500	0.2039	
$ 24 Fluoranthene-d10 (Surr)	212	14.712	14.718	-0.001	99	148442	0.2500	0.1972	
25 Fluoranthene	202	14.743	14.743	-0.001	98	188293	0.2500	0.1886	
26 Pyrene	202	15.082	15.082	-0.001	97	195024	0.2500	0.2097	
28 Benzo[a]anthracene	228	17.104	17.112	-0.001	98	171068	0.2500	0.2177	
* 29 Chrysene-d12	240	17.119	17.120	-0.001	90	129644	0.2500	0.2500	
30 Chrysene	228	17.165	17.165	-0.001	100	162514	0.2500	0.2138	
33 Benzo[b]fluoranthene	252	18.967	18.976	-0.009	100	162342	0.2500	0.2127	
34 Benzo[k]fluoranthene	252	19.014	19.021	-0.008	100	171123	0.2500	0.2148	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.458	19.467	-0.009	99	100700	0.2500	0.2161	
37 Benzo[a]pyrene	252	19.497	19.505	-0.008	100	157184	0.2500	0.2252	
* 38 Perylene-d12	264	19.589	19.597	-0.008	99	126249	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.230	21.230	0.000	98	125835	0.2500	0.2575	
41 Dibenz(a,h)anthracene	278	21.279	21.286	-0.008	99	126968	0.2500	0.2570	
42 Benzo[g,h,i]perylene	276	21.646	21.653	-0.008	100	143853	0.2500	0.2486	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

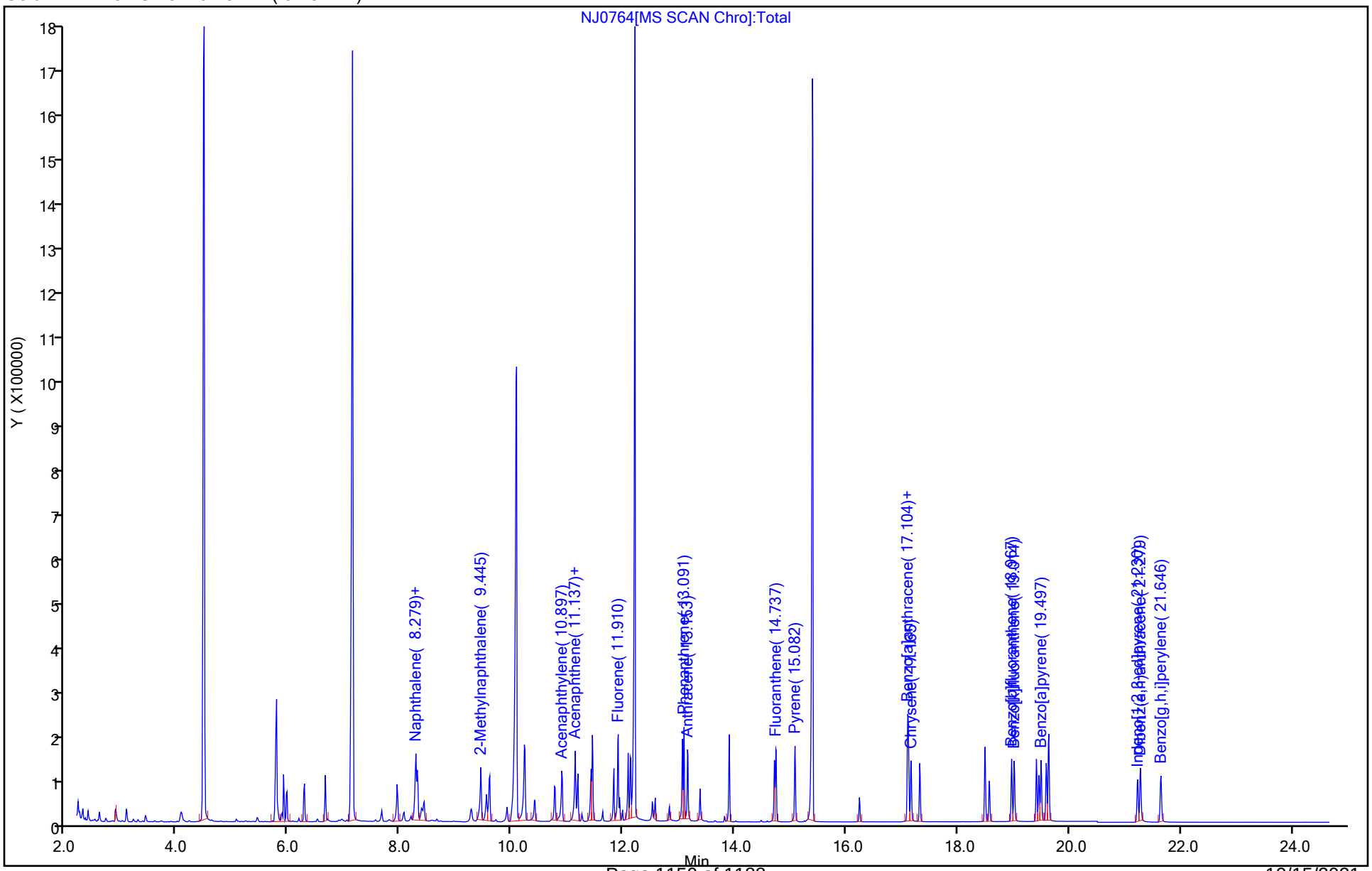
Report Date: 11-Oct-2021 22:40:16 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211011-41227.b\NJ0764.D

Injection Date:	11-Oct-2021 11:00:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCSD 410-179899/3-A			Worklist Smp#:	24
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 MS Lab Sample ID: 410-57303-3 MS

Matrix: Ground Water Lab File ID: MJ0513.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 14:43

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 241.5(mL) Date Analyzed: 10/07/2021 16:08

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.: 179971 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.796		0.052	0.010
208-96-8	Acenaphthylene	0.833		0.052	0.010
120-12-7	Anthracene	0.935		0.052	0.010
56-55-3	Benzo[a]anthracene	0.838		0.052	0.010
50-32-8	Benzo[a]pyrene	0.804		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.716		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.616		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.893		0.052	0.010
218-01-9	Chrysene	0.857		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.789		0.052	0.021
206-44-0	Fluoranthene	0.951		0.052	0.010
86-73-7	Fluorene	0.826		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.02		0.052	0.021
91-20-3	Naphthalene	0.844		0.072	0.031
85-01-8	Phenanthrene	0.822		0.072	0.031
129-00-0	Pyrene	0.787		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)	93		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\HP21585\20211007-40957.b\MJ0513.D
Lims ID: 410-57303-A-3-A MS
Client ID: MW-10D-20210928
Sample Type: MS
Inject. Date: 07-Oct-2021 16:08:45 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-3-A MS
Misc. Info.: 410-0040957-014
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 03:56:52

	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	7.320	7.341	-0.021	92	60793	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.237	9.237	0.000	91	199062	0.2500	0.2500	
	6 Naphthalene	128	9.278	9.278	0.000	94	188592	0.2500	0.2039	
$	9 1-Methylnaphthalene-d10	152	10.475	10.498	0.000	100	89219	0.2500	0.2316	
	12 Acenaphthylene	152	11.783	11.795	0.000	100	175629	0.2500	0.2012	
*	13 Acenaphthene-d10	164	11.978	11.991	-0.013	93	104221	0.2500	0.2500	
	14 Acenaphthene	154	12.027	12.027	0.000	92	102004	0.2500	0.1923	
	17 Fluorene	166	12.687	12.687	0.000	96	124333	0.2500	0.1994	
*	20 Phenanthrene-d10	188	13.889	13.889	0.000	95	184015	0.2500	0.2500	
	21 Phenanthrene	178	13.920	13.928	0.000	100	189307	0.2500	0.1984	
	22 Anthracene	178	13.998	14.006	0.000	100	197195	0.2500	0.2259	
$	24 Fluoranthene-d10 (Surr)	212	15.603	15.612	0.000	100	190215	0.2500	0.2610	
	25 Fluoranthene	202	15.634	15.634	0.000	100	231075	0.2500	0.2296	
	26 Pyrene	202	15.991	16.004	0.000	100	237669	0.2500	0.1901	
	28 Benzo[a]anthracene	228	18.048	18.063	0.000	100	219095	0.2500	0.2025	
*	29 Chrysene-d12	240	18.063	18.063	0.000	83	188242	0.2500	0.2500	
	30 Chrysene	228	18.109	18.124	0.000	100	248422	0.2500	0.2069	
	33 Benzo[b]fluoranthene	252	19.942	19.980	0.008	100	192832	0.2500	0.1730	
	34 Benzo[k]fluoranthene	252	19.988	20.019	0.008	100	256578	0.2500	0.2157	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.441	20.448	0.001	99	136862	0.2500	0.1958	
	37 Benzo[a]pyrene	252	20.479	20.487	0.000	100	201867	0.2500	0.1943	
*	38 Perylene-d12	264	20.571	20.571	0.000	99	196475	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	22.369	22.433	0.014	98	205746	0.2500	0.2467	
	41 Dibenz(a,h)anthracene	278	22.405	22.390	0.014	94	183971	0.2500	0.1905	
	42 Benzo[g,h,i]perylene	276	22.864	22.858	0.015	100	151577	0.2500	0.1487	

QC Flag Legend

Processing Flags

Reagents:

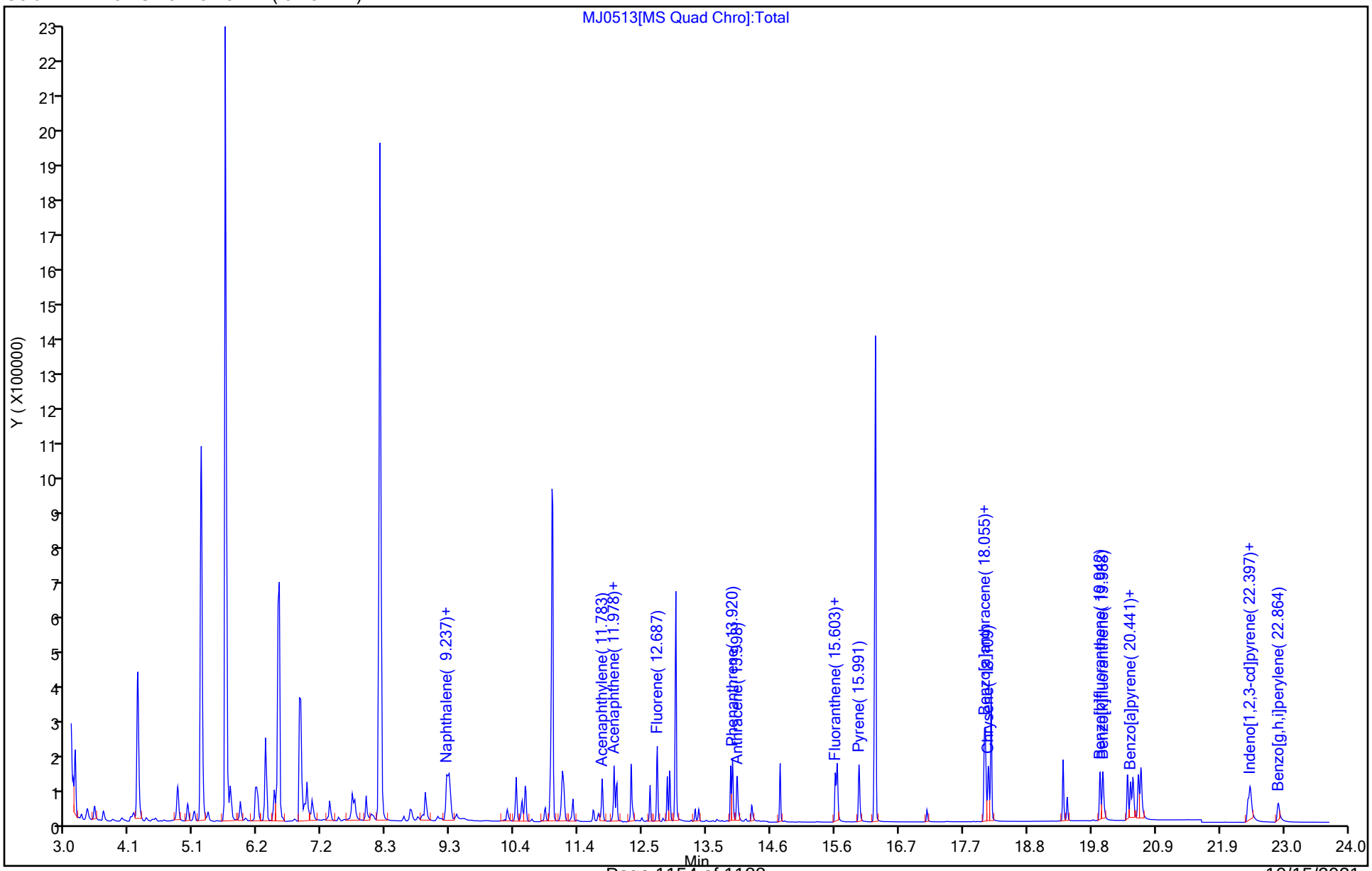
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Oct-2021 04:11:09 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0513.D				
Injection Date:	07-Oct-2021 16:08:45	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-3-A MS			Worklist Smp#:	14
Client ID:	MW-10D-20210928				
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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 MS RE Lab Sample ID: 410-57303-3 MS RE

Matrix: Ground Water Lab File ID: MJ0716.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 14:43

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 244.3(mL) Date Analyzed: 10/12/2021 11:01

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.: 181586 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.677*		*0.051*	*0.010*
208-96-8	*Acenaphthylene*	*0.694*		*0.051*	*0.010*
120-12-7	*Anthracene*	*0.685*		*0.051*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.703*		*0.051*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.675*		*0.051*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.633*		*0.051*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.558*		*0.051*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.729*		*0.051*	*0.010*
218-01-9	*Chrysene*	*0.732*		*0.051*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.652*		*0.051*	*0.020*
206-44-0	*Fluoranthene*	*0.757*		*0.051*	*0.010*
86-73-7	*Fluorene*	*0.687*		*0.051*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.582*		*0.051*	*0.020*
91-20-3	*Naphthalene*	*0.662*		*0.072*	*0.031*
85-01-8	*Phenanthrene*	*0.761*		*0.072*	*0.031*
129-00-0	*Pyrene*	*0.708*		*0.051*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	67		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		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\20211012-41301.b\MJ0716.D
Lims ID: 410-57303-B-3-A MS RE
Client ID: MW-10D-20210928
Sample Type: MS
Inject. Date: 12-Oct-2021 11:01:13 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-3-A MS
Misc. Info.: 410-0041301-007
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:17:18

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	7.320	7.341	-0.021	98	65813	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	92	254113	0.2500	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	94	191010	0.2500	0.1618	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	90816	0.2500	0.1846	
12 Acenaphthylene	152	11.783	11.782	0.000	100	168385	0.2500	0.1695	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	96	118613	0.2500	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	92	99900	0.2500	0.1655	
17 Fluorene	166	12.679	12.679	0.000	96	119158	0.2500	0.1679	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	97	199812	0.2500	0.2500	
21 Phenanthrene	178	13.912	13.912	-0.001	100	192617	0.2500	0.1859	
22 Anthracene	178	13.990	13.983	-0.001	100	158552	0.2500	0.1673	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.605	-0.001	100	166001	0.2500	0.2098	
25 Fluoranthene	202	15.628	15.628	0.000	100	202106	0.2500	0.1850	
26 Pyrene	202	15.985	15.979	0.000	100	212032	0.2500	0.1730	
28 Benzo[a]anthracene	228	18.040	18.040	0.008	100	182208	0.2500	0.1717	
* 29 Chrysene-d12	240	18.055	18.055	0.000	84	184557	0.2500	0.2500	
30 Chrysene	228	18.101	18.109	0.000	100	210662	0.2500	0.1789	
33 Benzo[b]fluoranthene	252	19.926	19.957	0.007	100	169907	0.2500	0.1546	
34 Benzo[k]fluoranthene	252	19.980	20.003	0.007	100	208846	0.2500	0.1781	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.433	0.000	99	115003	0.2500	0.1669	
37 Benzo[a]pyrene	252	20.471	20.471	0.007	100	168928	0.2500	0.1649	
* 38 Perylene-d12	264	20.563	20.556	0.007	99	193726	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.348	22.390	0.014	98	117002	0.2500	0.1423	M
41 Dibenz(a,h)anthracene	278	22.383	22.385	0.007	92	151717	0.2500	0.1593	
42 Benzo[g,h,i]perylene	276	22.849	22.844	0.014	100	136940	0.2500	0.1362	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

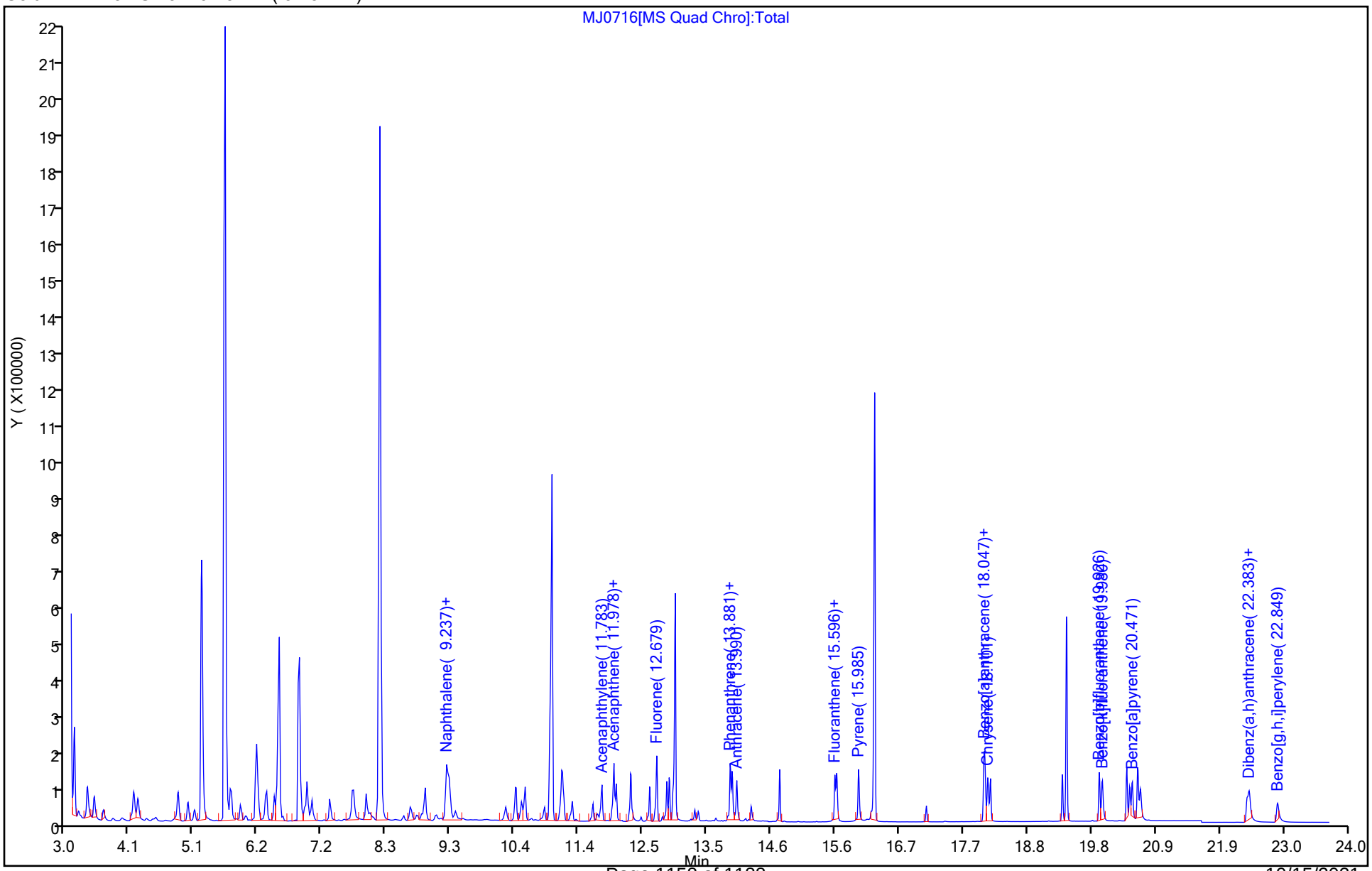
Report Date: 13-Oct-2021 08:30:50 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0716.D

Injection Date:	12-Oct-2021 11:01:13	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-3-A MS RE			Worklist Smp#:	7
Client ID:	MW-10D-20210928				
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

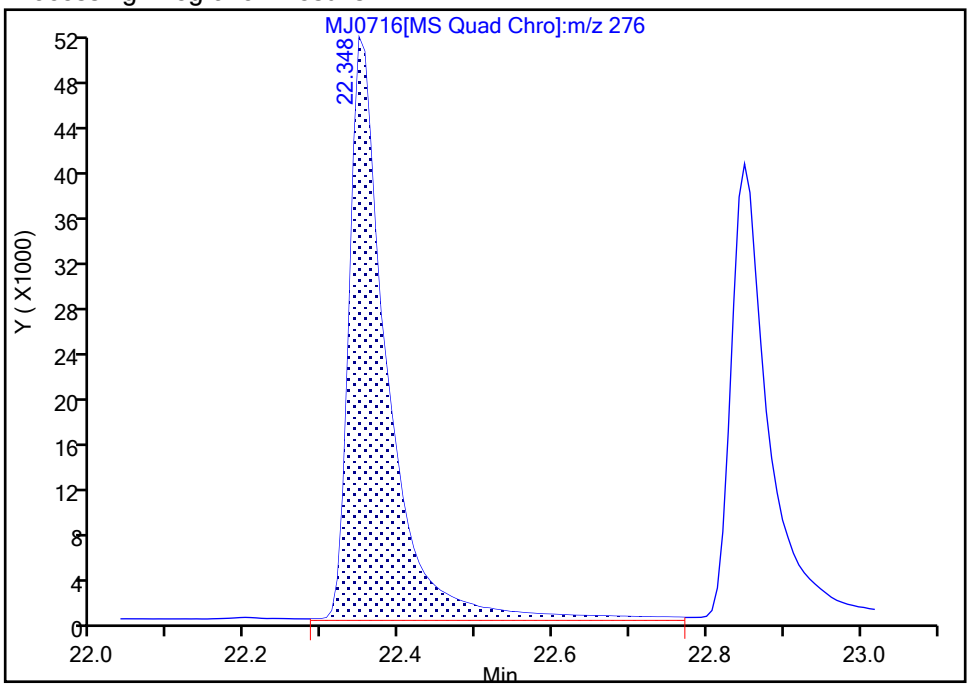
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0716.D				
Injection Date:	12-Oct-2021 11:01:13	Instrument ID:	HP21585		
Lims ID:	410-57303-B-3-A MS RE				
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

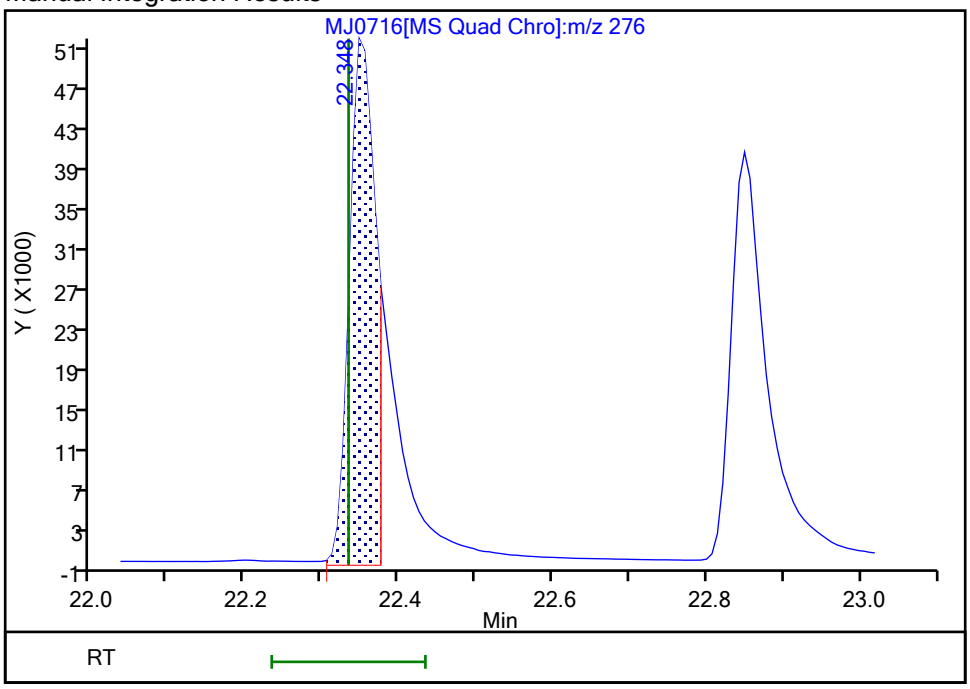
Processing Integration Results

RT: 22.35
Area: 177052
Amount: 0.215273
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 117002
Amount: 0.142259
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:17:06
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.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 MSD Lab Sample ID: 410-57303-3 MSD

Matrix: Ground Water Lab File ID: MJ0514.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 14:43

Extract. Method: 3510C Date Extracted: 10/04/2021 17:05

Sample wt/vol: 237.4(mL) Date Analyzed: 10/07/2021 16:38

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.: 179971 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.738		0.053	0.011
208-96-8	Acenaphthylene	0.770		0.053	0.011
120-12-7	Anthracene	0.870		0.053	0.011
56-55-3	Benzo[a]anthracene	0.841		0.053	0.011
50-32-8	Benzo[a]pyrene	0.808		0.053	0.011
205-99-2	Benzo[b]fluoranthene	0.709		0.053	0.011
191-24-2	Benzo[g,h,i]perylene	0.593		0.053	0.011
207-08-9	Benzo[k]fluoranthene	0.896		0.053	0.011
218-01-9	Chrysene	0.827		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	0.760		0.053	0.021
206-44-0	Fluoranthene	0.899		0.053	0.011
86-73-7	Fluorene	0.768		0.053	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	0.981		0.053	0.021
91-20-3	Naphthalene	0.761		0.074	0.032
85-01-8	Phenanthrene	0.762		0.074	0.032
129-00-0	Pyrene	0.751		0.053	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	84		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\HP21585\20211007-40957.b\MJ0514.D
Lims ID: 410-57303-A-3-B MSD
Client ID: MW-10D-20210928
Sample Type: MSD
Inject. Date: 07-Oct-2021 16:38:24 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-A-3-B MSD
Misc. Info.: 410-0040957-015
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Oct-2021 04:08:59 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1673

First Level Reviewer: gamblerj Date: 08-Oct-2021 03:57:38

	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	7.320	7.341	-0.021	95	58769	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.237	9.237	0.000	91	193235	0.2500	0.2500	
	6 Naphthalene	128	9.278	9.278	0.000	94	162190	0.2500	0.1807	
$	9 1-Methylnaphthalene-d10	152	10.475	10.498	0.000	100	78563	0.2500	0.2100	
	12 Acenaphthylene	152	11.783	11.795	0.000	100	154818	0.2500	0.1829	
*	13 Acenaphthene-d10	164	11.978	11.991	-0.013	93	101079	0.2500	0.2500	
	14 Acenaphthene	154	12.027	12.027	0.000	92	90096	0.2500	0.1751	
	17 Fluorene	166	12.687	12.687	0.000	96	110224	0.2500	0.1823	
*	20 Phenanthrene-d10	188	13.889	13.889	0.000	95	179139	0.2500	0.2500	
	21 Phenanthrene	178	13.920	13.928	0.000	100	167967	0.2500	0.1809	
	22 Anthracene	178	13.998	14.006	0.000	100	175557	0.2500	0.2066	
$	24 Fluoranthene-d10 (Surr)	212	15.609	15.612	0.006	100	173588	0.2500	0.2447	
	25 Fluoranthene	202	15.634	15.634	0.000	100	209188	0.2500	0.2135	
	26 Pyrene	202	15.991	16.004	0.000	100	216960	0.2500	0.1782	
	28 Benzo[a]anthracene	228	18.048	18.063	0.000	100	210318	0.2500	0.1996	
*	29 Chrysene-d12	240	18.063	18.063	0.000	82	183338	0.2500	0.2500	
	30 Chrysene	228	18.109	18.124	0.000	100	229510	0.2500	0.1963	
	33 Benzo[b]fluoranthene	252	19.942	19.980	0.008	100	183504	0.2500	0.1684	
	34 Benzo[k]fluoranthene	252	19.988	20.019	0.008	100	247325	0.2500	0.2127	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.440	20.448	0.000	99	133528	0.2500	0.1954	
	37 Benzo[a]pyrene	252	20.479	20.487	0.000	100	194792	0.2500	0.1918	
*	38 Perylene-d12	264	20.571	20.571	0.000	99	192083	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	22.369	22.433	0.014	98	189883	0.2500	0.2328	
	41 Dibenz(a,h)anthracene	278	22.404	22.390	0.014	93	170361	0.2500	0.1804	
	42 Benzo[g,h,i]perylene	276	22.864	22.858	0.015	100	140230	0.2500	0.1407	

QC Flag Legend
Processing Flags

Reagents:

MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

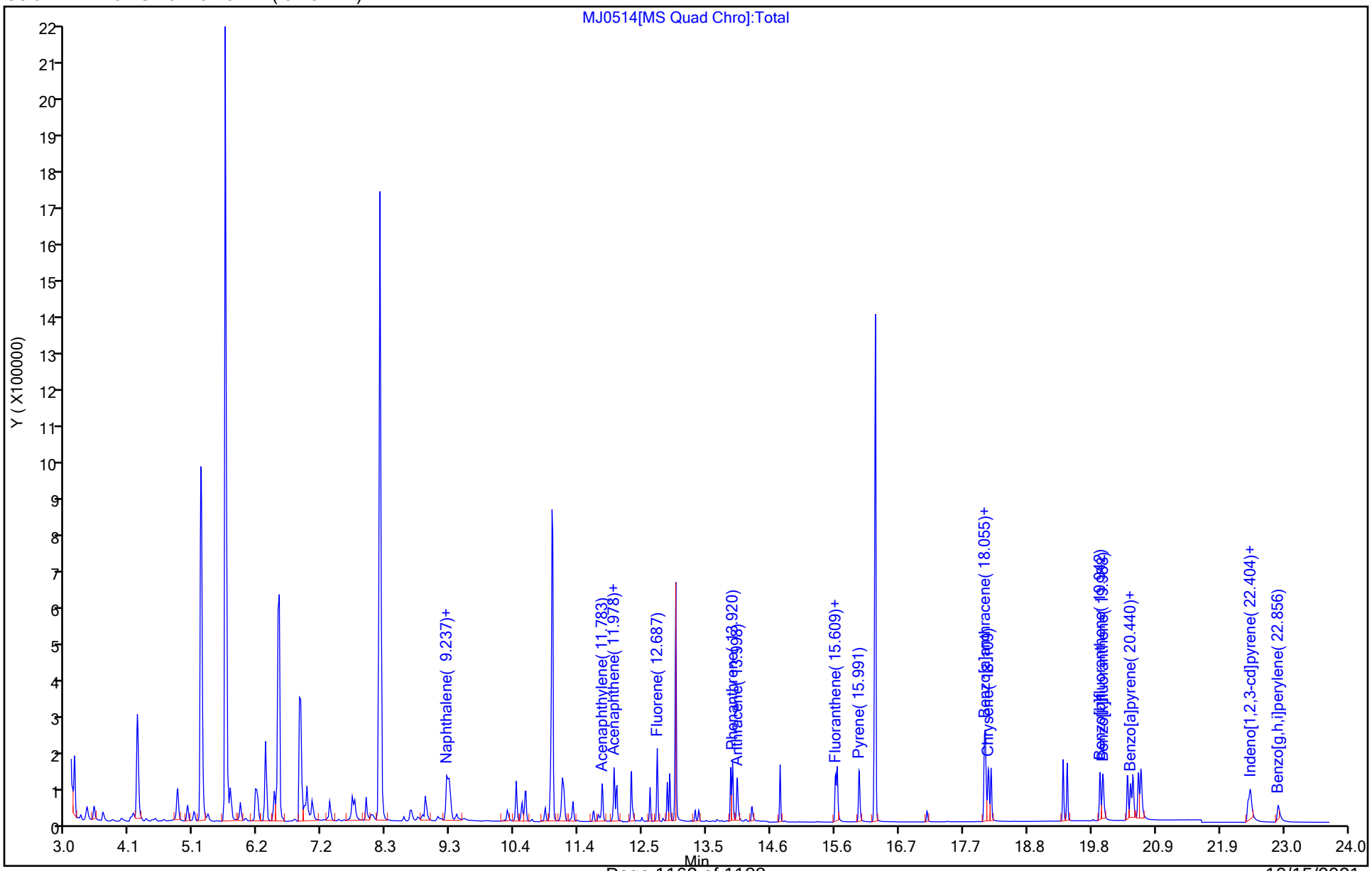
Report Date: 08-Oct-2021 04:11:10 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211007-40957.b\MJ0514.D

Injection Date:	07-Oct-2021 16:38:24	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-A-3-B MSD			Worklist Smp#:	15
Client ID:	MW-10D-20210928				
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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-57303-1

SDG No.:

Client Sample ID: MW-10D-20210928 MSD RE Lab Sample ID: 410-57303-3 MSD RE

Matrix: Ground Water Lab File ID: MJ0717.D

Analysis Method: 8270D SIM Date Collected: 09/28/2021 14:43

Extract. Method: 3510C Date Extracted: 10/11/2021 18:05

Sample wt/vol: 237.6(mL) Date Analyzed: 10/12/2021 11:31

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.: 181586 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.771*		*0.053*	*0.011*
208-96-8	*Acenaphthylene*	*0.817*		*0.053*	*0.011*
120-12-7	*Anthracene*	*0.766*		*0.053*	*0.011*
56-55-3	*Benzo[a]anthracene*	*0.847*		*0.053*	*0.011*
50-32-8	*Benzo[a]pyrene*	*0.822*		*0.053*	*0.011*
205-99-2	*Benzo[b]fluoranthene*	*0.757*		*0.053*	*0.011*
191-24-2	*Benzo[g,h,i]perylene*	*0.636*		*0.053*	*0.011*
207-08-9	*Benzo[k]fluoranthene*	*0.866*		*0.053*	*0.011*
218-01-9	*Chrysene*	*0.854*		*0.053*	*0.011*
53-70-3	*Dibenz(a,h)anthracene*	*0.767*		*0.053*	*0.021*
206-44-0	*Fluoranthene*	*0.881*		*0.053*	*0.011*
86-73-7	*Fluorene*	*0.800*		*0.053*	*0.011*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.675*		*0.053*	*0.021*
91-20-3	*Naphthalene*	*0.782*		*0.074*	*0.032*
85-01-8	*Phenanthrene*	*0.830*		*0.074*	*0.032*
129-00-0	*Pyrene*	*0.837*		*0.053*	*0.011*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	80		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		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\20211012-41301.b\MJ0717.D
Lims ID: 410-57303-B-3-B MSD RE
Client ID: MW-10D-20210928
Sample Type: MSD
Inject. Date: 12-Oct-2021 11:31:10 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-57303-B-3-B MSD
Misc. Info.: 410-0041301-008
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 13-Oct-2021 08:24:24 Calib Date: 20-Aug-2021 09:08:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210820-37357.b\MH1156.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1608

First Level Reviewer: gamblerj Date: 13-Oct-2021 08:17:56

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	7.320	7.341	-0.021	98	64874	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.237	9.237	0.000	97	253171	0.2500	0.2500	
6 Naphthalene	128	9.278	9.278	0.000	94	218639	0.2500	0.1859	
$ 9 1-Methylnaphthalene-d10	152	10.462	10.498	-0.013	100	97133	0.2500	0.1982	
12 Acenaphthylene	152	11.783	11.782	0.000	100	186945	0.2500	0.1941	
* 13 Acenaphthene-d10	164	11.978	11.978	0.000	91	114997	0.2500	0.2500	
14 Acenaphthene	154	12.015	12.015	0.000	91	107168	0.2500	0.1831	
17 Fluorene	166	12.679	12.679	0.000	96	130778	0.2500	0.1901	
* 20 Phenanthrene-d10	188	13.881	13.881	0.000	99	193591	0.2500	0.2500	
21 Phenanthrene	178	13.912	13.912	-0.001	100	197985	0.2500	0.1973	
22 Anthracene	178	13.990	13.983	-0.001	100	167111	0.2500	0.1820	
$ 24 Fluoranthene-d10 (Surr)	212	15.596	15.605	-0.001	100	165017	0.2500	0.2152	
25 Fluoranthene	202	15.628	15.628	0.000	100	221686	0.2500	0.2094	
26 Pyrene	202	15.985	15.979	0.000	100	232505	0.2500	0.1988	
28 Benzo[a]anthracene	228	18.040	18.040	0.008	100	203662	0.2500	0.2012	
* 29 Chrysene-d12	240	18.055	18.055	0.000	81	176095	0.2500	0.2500	
30 Chrysene	228	18.101	18.109	0.000	100	227896	0.2500	0.2029	
33 Benzo[b]fluoranthene	252	19.926	19.957	0.007	100	192076	0.2500	0.1798	
34 Benzo[k]fluoranthene	252	19.972	20.003	-0.001	100	234528	0.2500	0.2058	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.425	20.433	0.000	99	134000	0.2500	0.2001	
37 Benzo[a]pyrene	252	20.471	20.471	0.007	100	194489	0.2500	0.1954	
* 38 Perylene-d12	264	20.555	20.556	-0.001	99	188222	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	22.348	22.390	0.014	98	128174	0.2500	0.1604	M
41 Dibenz(a,h)anthracene	278	22.383	22.385	0.007	93	168693	0.2500	0.1823	
42 Benzo[g,h,i]perylene	276	22.849	22.844	0.014	100	147596	0.2500	0.1511	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

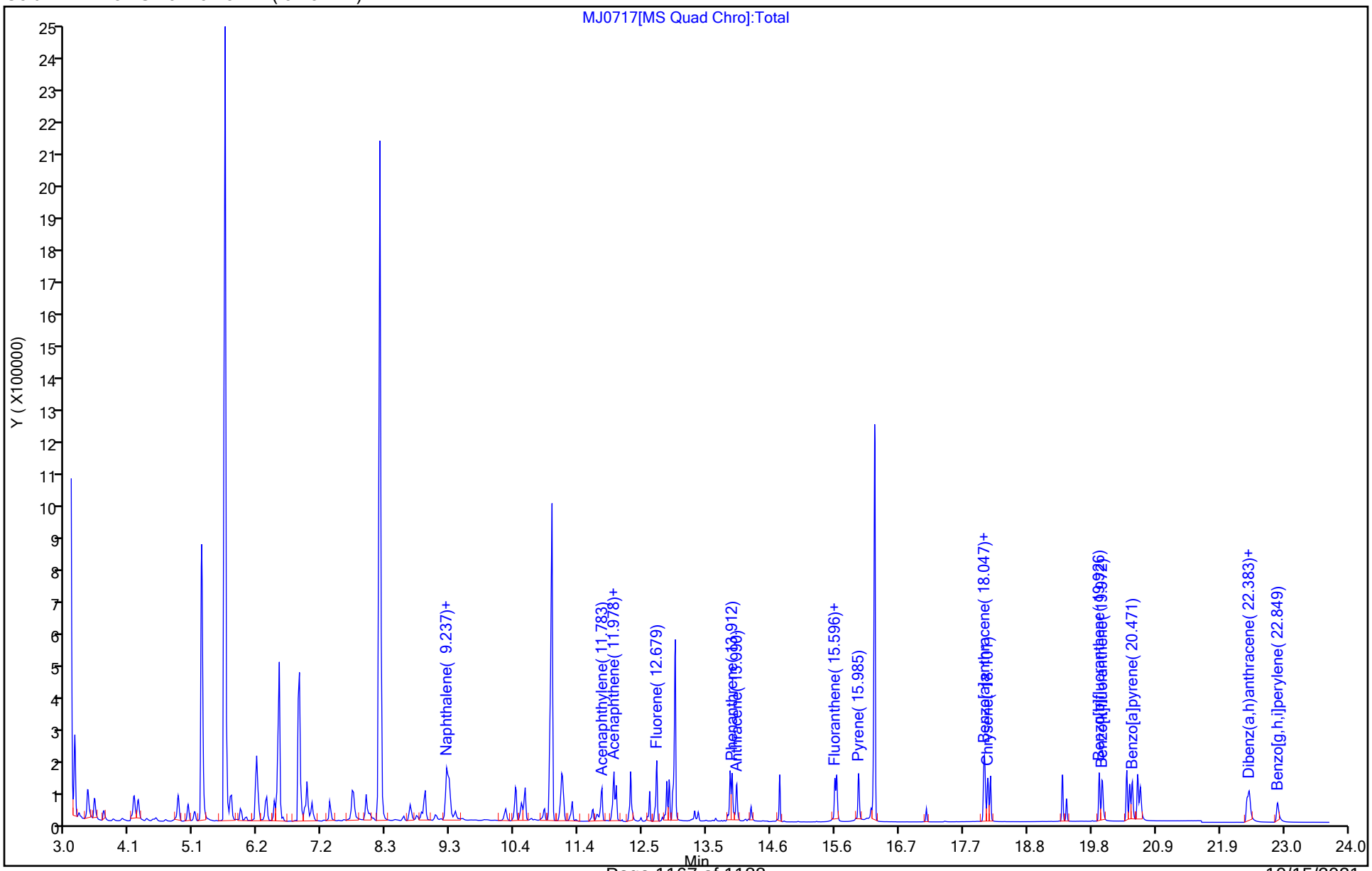
MSS_RVSIM_IS_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 13-Oct-2021 08:30:51 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0717.D				
Injection Date:	12-Oct-2021 11:31:10	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-57303-B-3-B MSD RE			Worklist Smp#:	8
Client ID:	MW-10D-20210928				
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

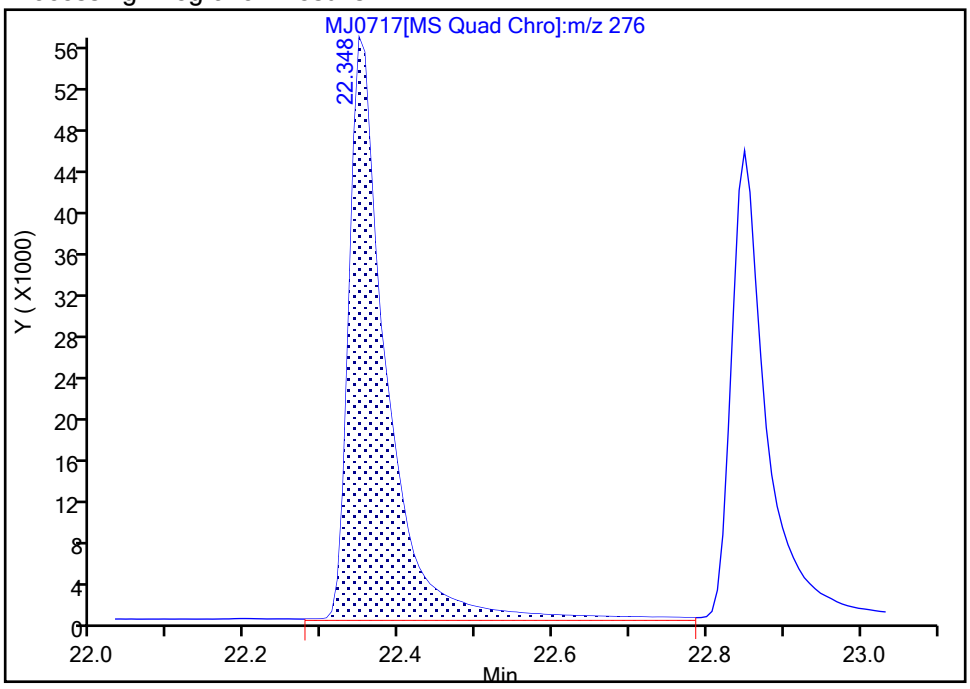
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211012-41301.b\MJ0717.D				
Injection Date:	12-Oct-2021 11:31:10	Instrument ID:	HP21585		
Lims ID:	410-57303-B-3-B MSD RE				
Client ID:	MW-10D-20210928				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

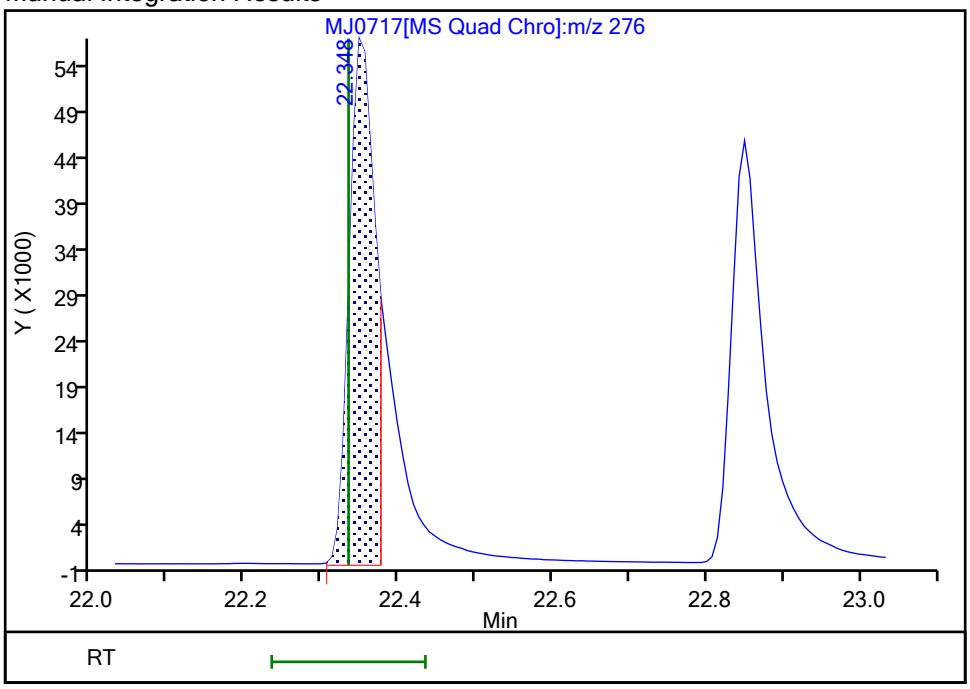
Processing Integration Results

RT: 22.35
Area: 192607
Amount: 0.241034
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 128174
Amount: 0.160400
Amount Units: ug/ml



Reviewer: gamblerj, 13-Oct-2021 08:17:53
Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP21585 Start Date: 08/20/2021 05:06

Analysis Batch Number: 162682 End Date: 08/20/2021 16:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-162682/1		08/20/2021 05:06	1	MH1150.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-162682/2		08/20/2021 06:11	1	MH1151.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-162682/3		08/20/2021 07:09	1	MH1152.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-162682/4		08/20/2021 07:39	1	MH1153.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-162682/5		08/20/2021 08:09	1	MH1154.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-162682/6		08/20/2021 08:38	1	MH1155.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-162682/7		08/20/2021 09:08	1	MH1156.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-162682/8		08/20/2021 09:38	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-162682/9		08/20/2021 10:08	1	MH1158.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-162682/10		08/20/2021 10:37	1	MH1159.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-162682/11		08/20/2021 11:07	1	MH1160.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		08/20/2021 14:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		08/20/2021 15:13	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		08/20/2021 15:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		08/20/2021 16:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		08/20/2021 16:42	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP21585 Start Date: 10/07/2021 08:34

Analysis Batch Number: 179971 End Date: 10/07/2021 20:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-179971/1		10/07/2021 08:34	1	MJ0500.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-179971/2		10/07/2021 08:55	1	MJ0501.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-178578/1-A		10/07/2021 09:43	1	MJ0502.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-178578/2-A		10/07/2021 10:12	1	MJ0503.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 10:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 11:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 11:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 12:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 12:41	1		DB-5MS 30m 0.25 0.25(mm)
410-57303-3	MW-10D-20210928	10/07/2021 15:09	1	MJ0512.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-3 MS	MW-10D-20210928 MS	10/07/2021 16:08	1	MJ0513.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-3 MSD	MW-10D-20210928 MSD	10/07/2021 16:38	1	MJ0514.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 17:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/07/2021 17:37	1		DB-5MS 30m 0.25 0.25(mm)
410-57303-1	MW-1-20210928	10/07/2021 18:07	1	MJ0515.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-2	MW-10S-20210928	10/07/2021 18:37	1	MJ0516.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-4	MW-8S-20210928	10/07/2021 19:06	1	MJ0517.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-5	MW-8D-20210928	10/07/2021 19:36	1	MJ0518.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-6	MW-7S-20210929	10/07/2021 20:06	1	MJ0519.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP21585 Start Date: 10/08/2021 05:52

Analysis Batch Number: 180407 End Date: 10/08/2021 17:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-180407/1		10/08/2021 05:52	1	MJ0560.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-180407/2		10/08/2021 06:11	1	MJ0561.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-7	MW-7D-20210929	10/08/2021 13:22	1	MJ0580.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-8	MW-14S-20210929	10/08/2021 13:51	1	MJ0581.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-9	MW-14D-20210929	10/08/2021 14:21	1	MJ0582.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-10	MW-12S-20210929	10/08/2021 14:51	1	MJ0583.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-11	MW-12D-20210929	10/08/2021 15:21	1	MJ0584.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-12	FB-20210929	10/08/2021 15:50	1	MJ0585.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-13	MW-11S-20210929	10/08/2021 16:20	1	MJ0586.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-14	MW-11D-20210929	10/08/2021 16:50	1	MJ0587.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-15	MW-4S-20210929	10/08/2021 17:19	1	MJ0588.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-15 DL	MW-4S-20210929 DL	10/08/2021 17:49	5	MJ0589.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP21585 Start Date: 10/09/2021 20:49

Analysis Batch Number: 180937 End Date: 10/10/2021 07:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-180937/1		10/09/2021 20:49	1	MJ0600a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-180937/2		10/09/2021 21:15	1	MJ0601a.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/09/2021 22:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/09/2021 22:50	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/09/2021 23:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/09/2021 23:50	1		DB-5MS 30m 0.25 0.25(mm)
410-57303-16	MW-4D-20210929	10/10/2021 00:20	1	MJ0624.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 00:50	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 01:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 01:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 02:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 02:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 03:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 03:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 05:18	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 05:48	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 07:18	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/10/2021 07:47	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP21585 Start Date: 10/12/2021 08:13

Analysis Batch Number: 181586 End Date: 10/12/2021 15:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-181586/1		10/12/2021 08:13	1	MJ0710.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-181586/2		10/12/2021 08:28	1	MJ0711.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-181417/1-A		10/12/2021 09:02	1	MJ0712.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-181417/2-A		10/12/2021 09:31	1	MJ0713.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/12/2021 10:01	1		DB-5MS 30m 0.25 0.25(mm)
410-57303-3 RE	MW-10D-20210928 RE	10/12/2021 10:31	1	MJ0715.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-3 MS RE	MW-10D-20210928 MS RE	10/12/2021 11:01	1	MJ0716.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-3 MSD RE	MW-10D-20210928 MSD RE	10/12/2021 11:31	1	MJ0717.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-1 RE	MW-1-20210928 RE	10/12/2021 12:00	1	MJ0718.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-2 RE	MW-10S-20210928 RE	10/12/2021 12:30	1	MJ0719.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-8 RE	MW-14S-20210929 RE	10/12/2021 13:00	1	MJ0720.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-13 RE	MW-11S-20210929 RE	10/12/2021 13:30	1	MJ0721.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-15 RE	MW-4S-20210929 RE	10/12/2021 13:59	1	MJ0722.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/12/2021 14:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/12/2021 14:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/12/2021 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.: 410-57303-1

SDG No.:

Instrument ID: HP23263 Start Date: 10/08/2021 03:58

Analysis Batch Number: 180399 End Date: 10/08/2021 13:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-180399/1		10/08/2021 03:58	1	NJ0600.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-180399/2		10/08/2021 04:21	1	NJ0601.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-180399/3		10/08/2021 04:56	1	NJ0602.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-180399/4		10/08/2021 05:26	1	NJ0603.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-180399/5		10/08/2021 05:56	1	NJ0604.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-180399/6		10/08/2021 06:26	1	NJ0605.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-180399/7		10/08/2021 06:57	1	NJ0606.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-180399/8		10/08/2021 07:27	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-180399/9		10/08/2021 07:57	1	NJ0608.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-180399/10		10/08/2021 08:27	1	NJ0609.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-180399/11		10/08/2021 08:57	1	NJ0610.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/08/2021 09:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/08/2021 10:28	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/08/2021 13:30	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP23263 Start Date: 10/11/2021 09:07

Analysis Batch Number: 181246 End Date: 10/11/2021 21:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-181246/1		10/11/2021 09:07	1	NJ0760.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-181246/2		10/11/2021 09:26	1	NJ0761.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-179899/1-A		10/11/2021 09:59	1	NJ0762.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-179899/2-A		10/11/2021 10:29	1	NJ0763.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-179899/3-A		10/11/2021 11:00	1	NJ0764.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 13:01	20		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 13:31	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 14:02	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 14:32	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 16:33	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 17:04	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 17:34	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 18:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/11/2021 18:35	1		DB-5MS 30m 0.25 0.25(mm)
410-57303-17	MW-3-20210930	10/11/2021 20:06	1	NJ0782.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-18	MW-13S-20210930	10/11/2021 20:36	1	NJ0783.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-19	MW-13D-20210930	10/11/2021 21:07	1	NJ0784.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP23263 Start Date: 10/12/2021 05:50

Analysis Batch Number: 181545 End Date: 10/12/2021 10:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-181545/1		10/12/2021 05:50	1	NJ0800.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-181545/2		10/12/2021 06:08	1	NJ0801.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-17 DL	MW-3-20210930 DL	10/12/2021 07:42	5	NJ0804.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-17 DL2	MW-3-20210930 DL2	10/12/2021 08:12	20	NJ0805.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-18 DL	MW-13S-20210930 DL	10/12/2021 08:42	10	NJ0806.D	DB-5MS 30m 0.25 0.25(mm)
410-57303-20	DUP-20210930	10/12/2021 09:13	10	NJ0807.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/12/2021 10:13	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/12/2021 10:44	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-57303-1

SDG No.:

Instrument ID: HP23263 Start Date: 10/13/2021 08:15

Analysis Batch Number: 182120 End Date: 10/13/2021 12:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-182120/1		10/13/2021 08:15	1	NJ0850.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-182120/2		10/13/2021 08:35	1	NJ0851.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/13/2021 09:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/13/2021 09:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/13/2021 10:16	1		DB-5MS 30m 0.25 0.25(mm)
410-57303-20 DL	DUP-20210930 DL	10/13/2021 10:47	50	NJ0855.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		10/13/2021 12:18	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-57303-1

SDG No.:

Batch Number: 178578 Batch Start Date: 10/04/21 17:05 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 10/04/21 22:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-178578/1		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
LCS 410-178578/2		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
410-57303-A-3 MS	MW-10D-20210928	3510C, 8270D SIM	T	407.85 g	166.33 g	241.5 mL	1 mL	n/a SU	>11 SU
410-57303-A-3 MSD	MW-10D-20210928	3510C, 8270D SIM	T	404.71 g	167.28 g	237.4 mL	1 mL	n/a SU	>11 SU
410-57303-A-1	MW-1-20210928	3510C, 8270D SIM	T	409.96 g	166.65 g	243.3 mL	1 mL	n/a SU	>11 SU
410-57303-A-2	MW-10S-20210928	3510C, 8270D SIM	T	410.96 g	167.05 g	243.9 mL	1 mL	n/a SU	>11 SU
410-57303-A-3	MW-10D-20210928	3510C, 8270D SIM	T	411.00 g	167.79 g	243.2 mL	1 mL	n/a SU	>11 SU
410-57303-A-4	MW-8S-20210928	3510C, 8270D SIM	T	411.03 g	166.18 g	244.9 mL	1 mL	n/a SU	>11 SU
410-57303-A-5	MW-8D-20210928	3510C, 8270D SIM	T	413.91 g	166.31 g	247.6 mL	1 mL	n/a SU	>11 SU
410-57303-A-6	MW-7S-20210929	3510C, 8270D SIM	T	414.42 g	167.74 g	246.7 mL	1 mL	n/a SU	>11 SU
410-57303-A-7	MW-7D-20210929	3510C, 8270D SIM	T	402.09 g	168.15 g	233.9 mL	1 mL	n/a SU	>11 SU
410-57303-A-8	MW-14S-20210929	3510C, 8270D SIM	T	414.59 g	167.50 g	247.1 mL	1 mL	n/a SU	>11 SU
410-57303-A-9	MW-14D-20210929	3510C, 8270D SIM	T	393.64 g	167.72 g	225.9 mL	1 mL	n/a SU	>11 SU
410-57303-A-10	MW-12S-20210929	3510C, 8270D SIM	T	410.03 g	166.05 g	244 mL	1 mL	n/a SU	>11 SU
410-57303-A-11	MW-12D-20210929	3510C, 8270D SIM	T	412.86 g	166.02 g	246.8 mL	1 mL	n/a SU	>11 SU
410-57303-A-12	FB-20210929	3510C, 8270D SIM	T	407.79 g	167.15 g	240.6 mL	1 mL	n/a SU	>11 SU
410-57303-A-13	MW-11S-20210929	3510C, 8270D SIM	T	408.93 g	167.81 g	241.1 mL	1 mL	n/a SU	>11 SU
410-57303-A-14	MW-11D-20210929	3510C, 8270D SIM	T	406.78 g	165.47 g	241.3 mL	1 mL	n/a SU	>11 SU
410-57303-A-15	MW-4S-20210929	3510C, 8270D SIM	T	402.24 g	167.81 g	234.4 mL	1 mL	n/a SU	>11 SU
410-57303-A-16	MW-4D-20210929	3510C, 8270D SIM	T	412.59 g	168.11 g	244.5 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00045	OP_SIMLCS_MS 00047	AnalysisComment	

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.: 410-57303-1

SDG No.:

Batch Number: 178578 Batch Start Date: 10/04/21 17:05 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 10/04/21 22:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00045	OP_SIMLCS_MS 00047	AnalysisComment	
MB 410-178578/1		3510C, 8270D SIM		<2 SU	N	1 mL		tap h2o	
LCS 410-178578/2		3510C, 8270D SIM		<2 SU	N	1 mL	0.25 mL	tap h2o	
410-57303-A-3 MS	MW-10D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL	0.25 mL	clear	
410-57303-A-3 MSD	MW-10D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL	0.25 mL	clear	
410-57303-A-1	MW-1-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-A-2	MW-10S-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-A-3	MW-10D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-4	MW-8S-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-A-5	MW-8D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-6	MW-7S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-A-7	MW-7D-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-8	MW-14S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-9	MW-14D-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-A-10	MW-12S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-11	MW-12D-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-12	FB-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-13	MW-11S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		orange / tan tint	
410-57303-A-14	MW-11D-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-A-15	MW-4S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-A-16	MW-4D-20210929	3510C, 8270D SIM	T	<2 SU	N	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.: 410-57303-1

SDG No.:

Batch Number: 178578 Batch Start Date: 10/04/21 17:05 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 10/04/21 22:59

Batch Notes	
Acid Used for pH Adjustment ID	h2so4 210524
Balance ID	25996
Base Used to Adjust pH ID	naoh 4102G23
Analyst ID - Concentration	40256 39576
Concentration 1 Corrected Temperature	80 Degrees C
Equipment ID - Concentration 1	rvap 4 5 3
Analyst ID - Extraction	40256 39576
Na2SO4 ID	21274A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	mecl2 214959
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	39576
Analyst ID - Spike Witness Analyst	28104

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.: 410-57303-1

SDG No.:

Batch Number: 179899 Batch Start Date: 10/07/21 09:17 Batch Analyst: Russo, Sophia

Batch Method: 3510C Batch End Date: 10/07/21 12:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-179899/1		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
LCS 410-179899/2		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
LCSD 410-179899/3		3510C, 8270D SIM				250 mL	1 mL	N/A SU	>11 SU
410-57303-B-17	MW-3-20210930	3510C, 8270D SIM	T	405.68 g	168.47 g	237.2 mL	1 mL	N/A SU	>11 SU
410-57303-B-18	MW-13S-20210930	3510C, 8270D SIM	T	409.21 g	166.70 g	242.5 mL	1 mL	N/A SU	>11 SU
410-57303-B-19	MW-13D-20210930	3510C, 8270D SIM	T	407.18 g	168.10 g	239.1 mL	1 mL	N/A SU	>11 SU
410-57303-B-20	DUP-20210930	3510C, 8270D SIM	T	408.04 g	168.36 g	239.7 mL	1 mL	N/A SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00045	OP_SIMLCS_MS 00046	AnalysisComment	
MB 410-179899/1		3510C, 8270D SIM		<2 SU	N/A	1 mL		Tap Water	
LCS 410-179899/2		3510C, 8270D SIM		<2 SU	N/A	1 mL	0.25 mL	Tap Water	
LCSD 410-179899/3		3510C, 8270D SIM		<2 SU	N/A	1 mL	0.25 mL	Tap Water	
410-57303-B-17	MW-3-20210930	3510C, 8270D SIM	T	<2 SU	N/A	1 mL		Golden yellow tint	
410-57303-B-18	MW-13S-20210930	3510C, 8270D SIM	T	<2 SU	N/A	1 mL		Golden orange tint	
410-57303-B-19	MW-13D-20210930	3510C, 8270D SIM	T	<2 SU	N/A	1 mL		Clear	
410-57303-B-20	DUP-20210930	3510C, 8270D SIM	T	<2 SU	N/A	1 mL		Golden yellow tint	

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.: 410-57303-1

SDG No.:

Batch Number: 179899 Batch Start Date: 10/07/21 09:17 Batch Analyst: Russo, Sophia

Batch Method: 3510C Batch End Date: 10/07/21 12:40

Batch Notes	
Acid Used for pH Adjustment ID	H2SO4; 210524
Balance ID	25996
Base Used to Adjust pH ID	NaOH; 4012G23
Analyst ID - Concentration	CNG41579
Equipment ID - Concentration 1	Rapid Vap # 1, 2, 9
Analyst ID - Extraction	SLR39002
Na2SO4 ID	21279A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	MeCl2; 214959
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	SLR39002
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.: 410-57303-1

SDG No.:

Batch Number: 181417 Batch Start Date: 10/11/21 18:05 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 10/11/21 22:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-181417/1		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
LCS 410-181417/2		3510C, 8270D SIM				250 mL	1 mL	n/a SU	>11 SU
410-57303-B-3 MS	MW-10D-20210928	3510C, 8270D SIM	T	411.78 g	167.44 g	244.3 mL	1 mL	n/a SU	>11 SU
410-57303-B-3 MSD	MW-10D-20210928	3510C, 8270D SIM	T	405.14 g	167.55 g	237.6 mL	1 mL	n/a SU	>11 SU
410-57303-B-1	MW-1-20210928	3510C, 8270D SIM	T	406.30 g	166.00 g	240.3 mL	1 mL	n/a SU	>11 SU
410-57303-B-2	MW-10S-20210928	3510C, 8270D SIM	T	409.00 g	166.45 g	242.6 mL	1 mL	n/a SU	>11 SU
410-57303-B-3	MW-10D-20210928	3510C, 8270D SIM	T	412.47 g	166.11 g	246.4 mL	1 mL	n/a SU	>11 SU
410-57303-B-8	MW-14S-20210929	3510C, 8270D SIM	T	410.24 g	168.02 g	242.2 mL	1 mL	n/a SU	>11 SU
410-57303-B-13	MW-11S-20210929	3510C, 8270D SIM	T	406.23 g	166.57 g	239.7 mL	1 mL	n/a SU	>11 SU
410-57303-B-15	MW-4S-20210929	3510C, 8270D SIM	T	400.67 g	168.07 g	232.6 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00046	OP_SIMLCS_MS 00049	AnalysisComment	
MB 410-181417/1		3510C, 8270D SIM		<2 SU	N	1 mL		tap h2o	
LCS 410-181417/2		3510C, 8270D SIM		<2 SU	N	1 mL	0.25 mL	tap h2o	
410-57303-B-3 MS	MW-10D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL	0.25 mL	clear	
410-57303-B-3 MSD	MW-10D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL	0.25 mL	clear	
410-57303-B-1	MW-1-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-B-2	MW-10S-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	
410-57303-B-3	MW-10D-20210928	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-B-8	MW-14S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		clear	
410-57303-B-13	MW-11S-20210929	3510C, 8270D SIM	T	<2 SU	N	1 mL		tan tint	

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.: 410-57303-1

SDG No.:

Batch Number: 181417 Batch Start Date: 10/11/21 18:05 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 10/11/21 22:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00046	OP_SIMLCS_MS 00049	AnalysisComment	
410-57303-B-15	MW-4S-20210929	3510C, 8270D SIM	T	<2 SU	N	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
Batch Comment	mecl2 rinse
Analyst ID - Concentration	40256
Concentration 1 Corrected Temperature	80 Degrees C
Equipment ID - Concentration 1	rvap 3 1 2 9
Analyst ID - Extraction	40256
Na2SO4 ID	21283A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	mecl2 214672
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	40256
Analyst ID - Spike Witness Analyst	28104

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

Eurofins 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

410-57303 Chain of Custody

Client Information	Sampler: RES/MHM	Lab PM: Weyandt, Barbara A	OC No: 10-34607-5955.1
Client Contact: Mr. James Marolda	Phone:	E-Mail: Barbara.Weyandt@eurofinset.com	State of Origin: NY	Page: Page 1 of 3
Company: Brown and Caldwell	PWSID:	Analysis Requested	Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:		Preservation Codes:
City: Ramsey	TAT Requested (days): Standard		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		
Email: jmarolda@brwncald.com	WO #:		Other:
Project Name: Patchogue, NY	Project #: 41002571		
Site: Patchogue	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	Containers	Special Instructions/Note:
			Preservation Code:		X	X	N			
MW-1-20210928	9/28/21	1116	G	GW	N	N	X	X	5	
MW-10S-20210928		1337			N	N	X	X		
MW-10D-20210928		1443			Y	Y	X	X		MS/MSD
MW-8S-20210928		1524			N	N	X	X		
MW-8D-20210928		1603					X	X		
MW-7S-20210929	9/29/21	0848					X	X		
MW-7D-20210929		0926					X	X		
MW-14S-20210929		1012					X	X		
MW-14D-20210929		1109					X	X		
MW-12S-20210929		1247					X	X		
MW-12D-20210929		1326					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) BC Equis

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/27/21 1100	Eurofins			
2	[signature]	09/30/21 1630	BC	RPMohn	30Sept21 1650	ELLE
3	RPMohn	30Sept21 1930	ELLE	[signature]	10/1/21 1026	BMS

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8 / 0.8 / 2.0 MR

TAB

Ver: 06/08/2021

③ MR 25680 10/1/21 Not Signed when received 10/15/2021 1930

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: RES/MHM	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-34607-5955 2
Client Contact: Mr. James Marolda	Phone:	E-Mail: Barbara.Weyandt@eurofinset.com	State of Origin: NY	Page: Page 2 of 3
Company: Brown and Caldwell	PWSID:	Analysis Requested		Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:			Preservation Codes:
City: Ramsey	TAT Requested (days): Standard			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	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	Special Instructions/Note:
		Preservation Code:			X	X	N	A	
FB-20210929	9/29/21	1340	G	DI	N	N	X	X	
MW-11S-20210929		1420		GW			X	X	
MW-11D-20210929		1459					X	X	
MW-4S-20210929		1559					X	X	
MW-4D-20210929		1638					X	X	
MW-3-20210930	9/30/21	0822					X	X	
MW-13S-20210930		0914					X	X	
MW-13D-20210930		0955					X	X	
DUP-20210930		9999					X	X	
TripBlank-20210930	9/30/21	—	G	DI				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) BC EQuIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: MRX MFioretti	09/30/21 1650	BC	Received by: RPMdhm	30Sept21 1650	FLLE
Relinquished by: RPMdhm	30Sept21 1930	FLLE	Received by:		
Relinquished by:	Date/Time:	Company	Received by:	10/1/21 1026	OMS

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8 / 0.8 / 2.0

TAT

@ MR 25684 10/1/21 Not signed when received 9/30/21 1650. MR

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-57303-1

Login Number: 57303
List Number: 1
Creator: Bryan, Debra A

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
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.	False	Refer to Job Narrative for details.
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	
Is the Field Sampler's name present on COC?	True	
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: 410-57303-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: November 10, 2021

Client Sample ID	Laboratory Sample ID	Matrix
MW-1-20210928	410-57303-1	Groundwater
MW-10S-20210928	410-57303-2	Groundwater
MW-10D-20210928	410-57303-3	Groundwater
MW-8S-20210928	410-57303-4	Groundwater
MW-8D-20210928	410-57303-5	Groundwater
MW-7S-20210929	410-57303-6	Groundwater
MW-7D-20210929	410-57303-7	Groundwater
MW-14S-20210929	410-57303-8	Groundwater
MW-14D-20210929	410-57303-9	Groundwater
MW-12S-20210929	410-57303-10	Groundwater
MW-12D-20210929	410-57303-11	Groundwater
FB-20210929	410-57303-12	Water
MW-11S-20210929	410-57303-13	Groundwater
MW-11D-20210929	410-57303-14	Groundwater
MW-4S-20210929	410-57303-15	Groundwater
MW-4D-20210929	410-57303-16	Groundwater
MW-3-20210930	410-57303-17	Groundwater
MW-13S-20210930	410-57303-18	Groundwater
MW-13D-20210930	410-57303-19	Groundwater
DUP-20210930	410-57303-20	Groundwater
TRIP-BLANK-20210930	410-57303-21	Water

Data validation was performed on the analytical data for twenty-one (21) samples collected on September 28 through 30, 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
- Matrix 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. Analytical issues were found with surrogate recoveries and method blank detections. Associated sample results are appropriately qualified and are usable for intended purpose.

Holding Times

- Holding times were achieved for all analyses.

Field Duplicate Accuracy

- One duplicate was collected for this dataset. DUP-20210930 is the sample duplicate for MW-3-20210930. 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 with the following exception:
    - Sample MW-11S-20210929 surrogate recoveries for 1-Methylnaphthalene-d10 and Fluoranthene-d10 were below control limits. Sample detections are qualified as estimated, J, and non-detections as estimated with limited detection, UJ, reason code 3L.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- The MS/MSD samples were analyzed on MW-10D-20210928, and percent recoveries are within acceptable limits.

Method, Trip, and Field Blanks

- The method blank had a detection of naphthalene above the MDL but less than the RL. 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 trip blank was free of contamination.
- The field blank was free of contamination.

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.

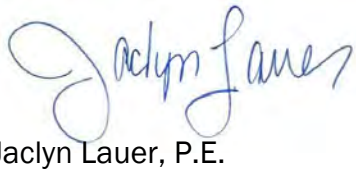
Compound Quantitation

- All sample detections detected above the MDL and below the RL are appropriately qualified as estimated, J, by the laboratory.

Reporting Limits

- Samples MW-4S-20210929, MW-3-20210930, MW-13S-20210930, and DUP-20210930 were diluted due to elevated SVOC concentrations. 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: November 10, 2021

Jaclyn Lauer, P.E.
Senior Staff Engineer and Validator
Brown and Caldwell

Signed:  Dated: November 11, 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 method detection 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.

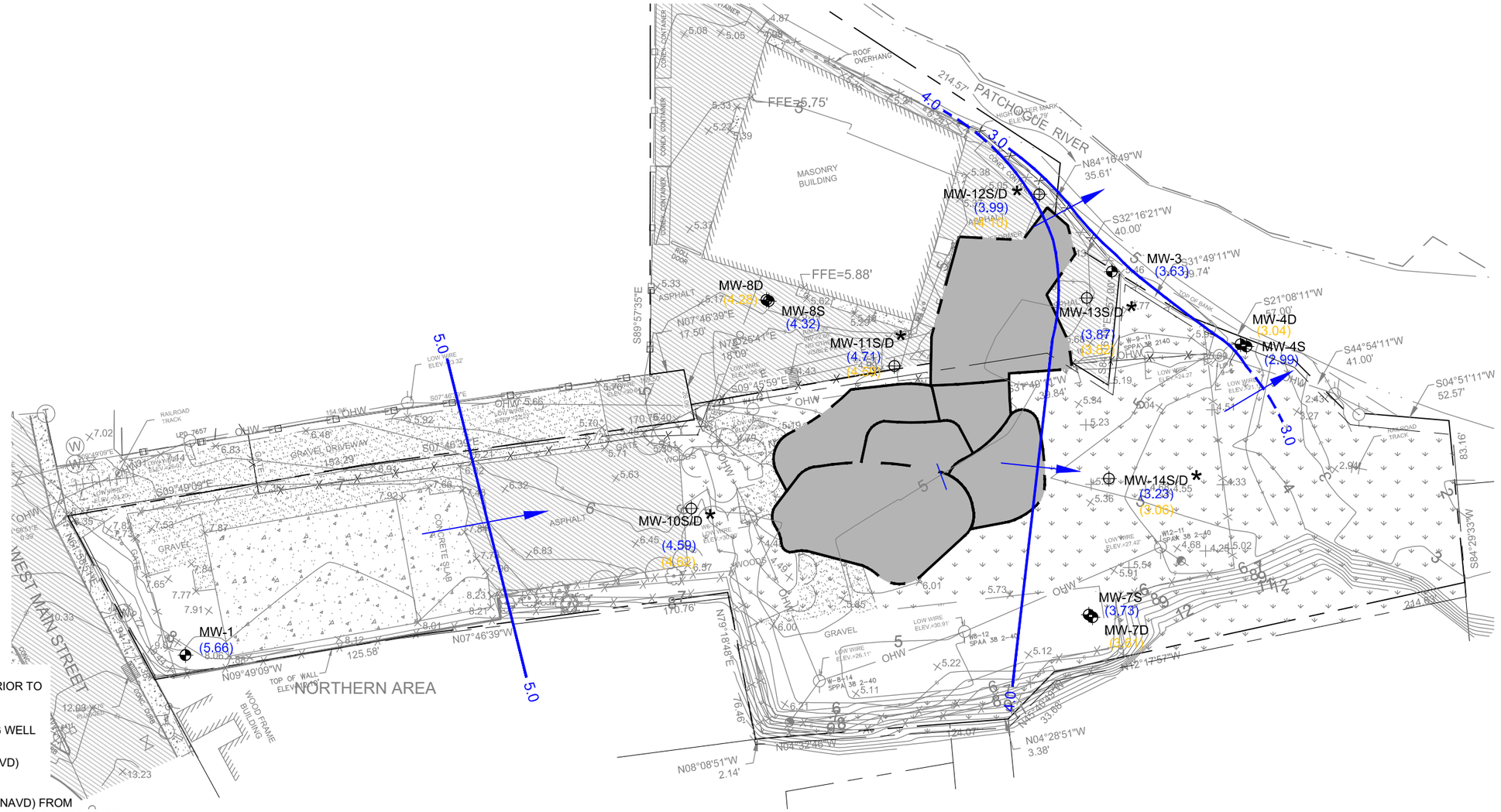
ft^3/s - cubic feet per second

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

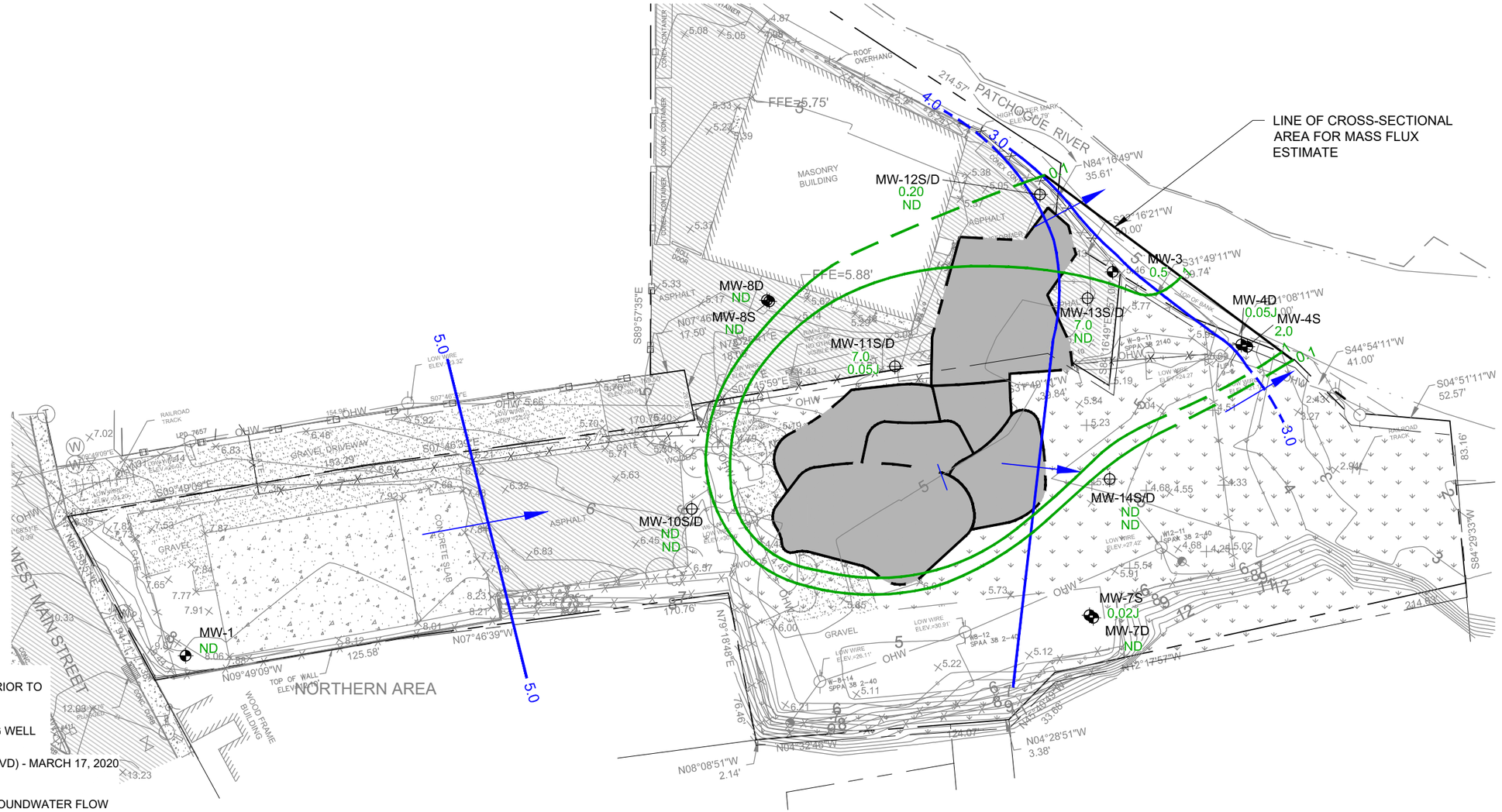
FIGURE

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

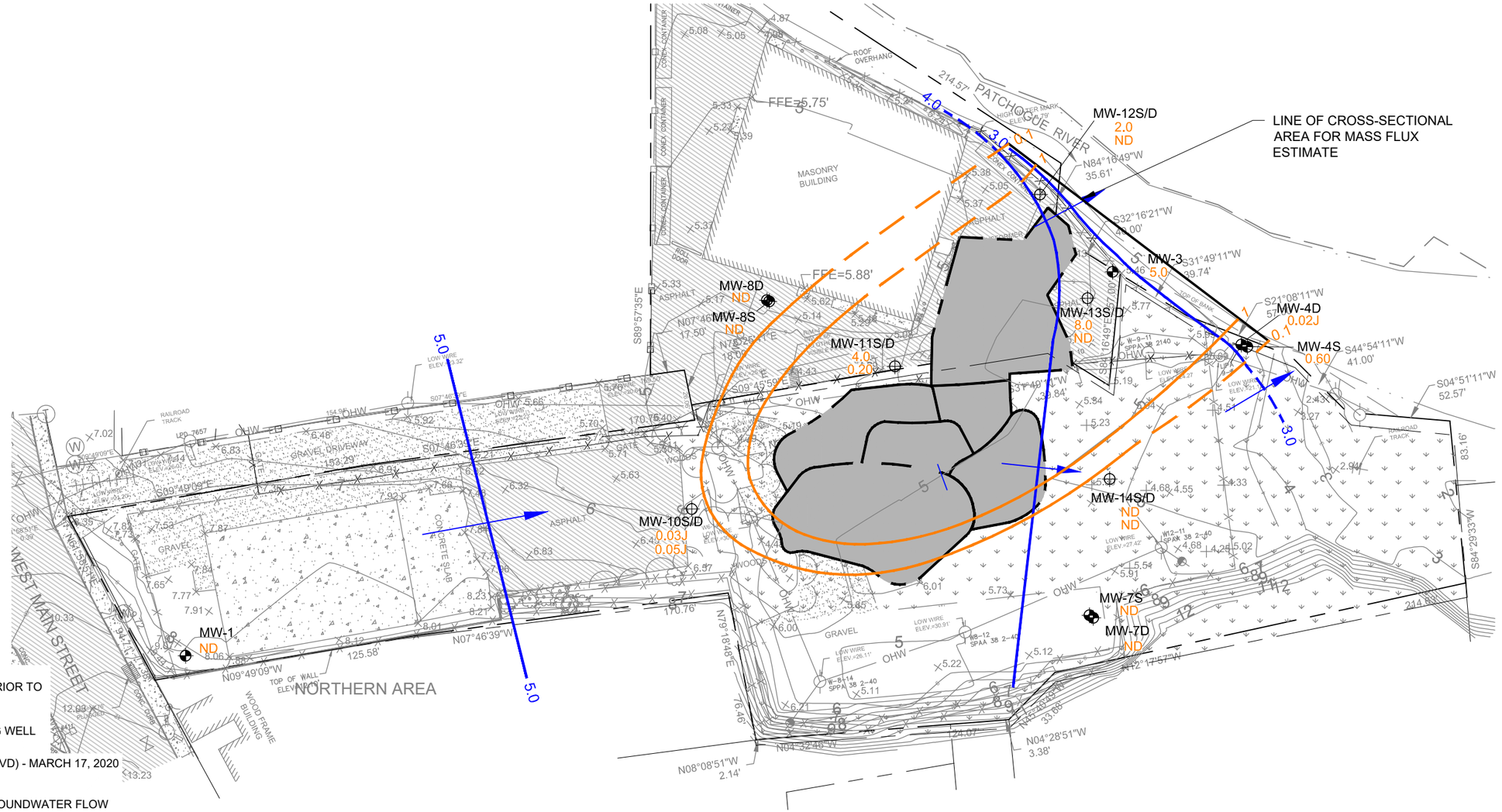
Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_4_pyrene_March2020 Plot Date: May 29, 2020 10:21 AM Cadd User: Alan Santiago

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.

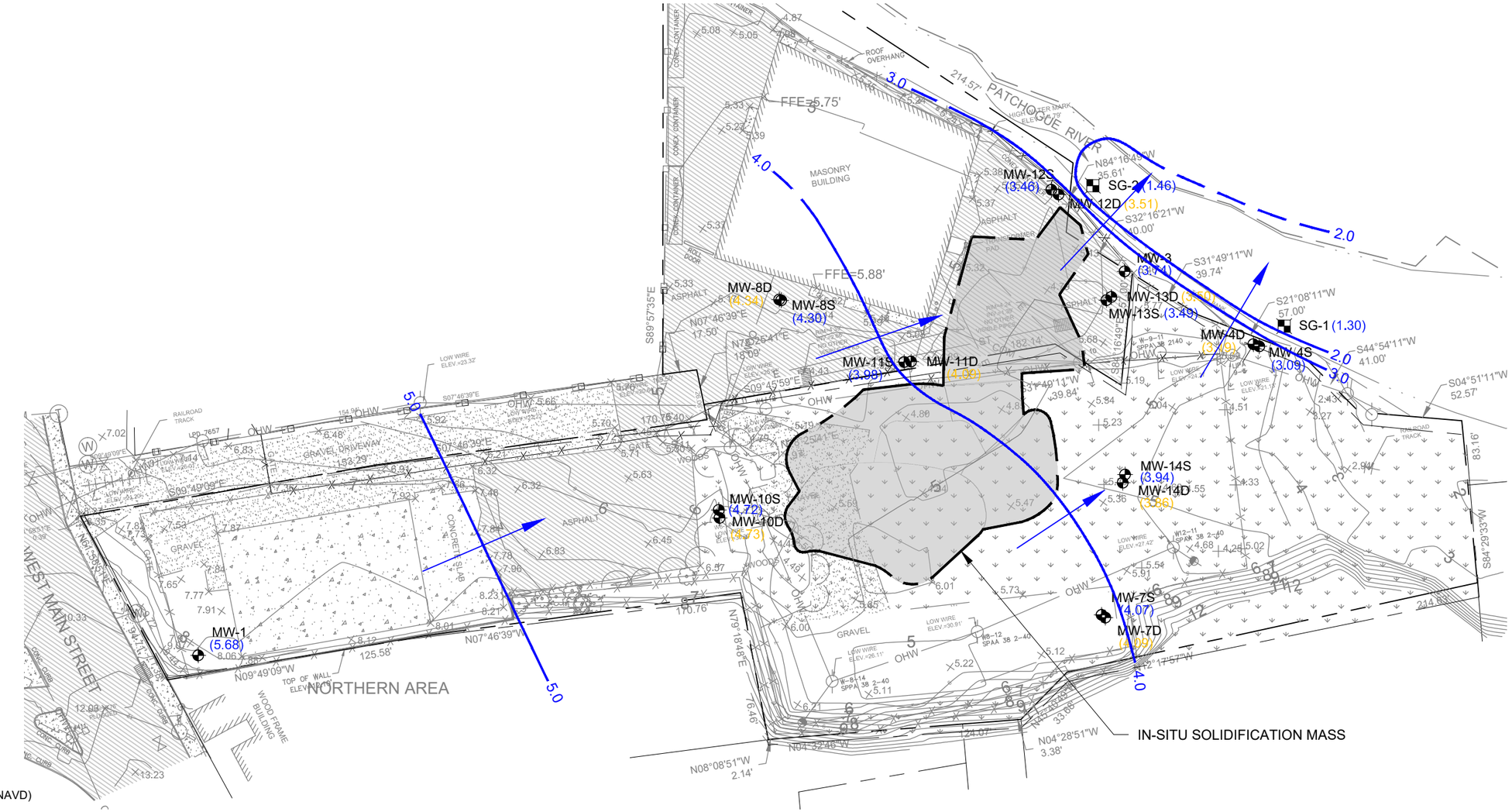
ft^3/s - cubic feet per second

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

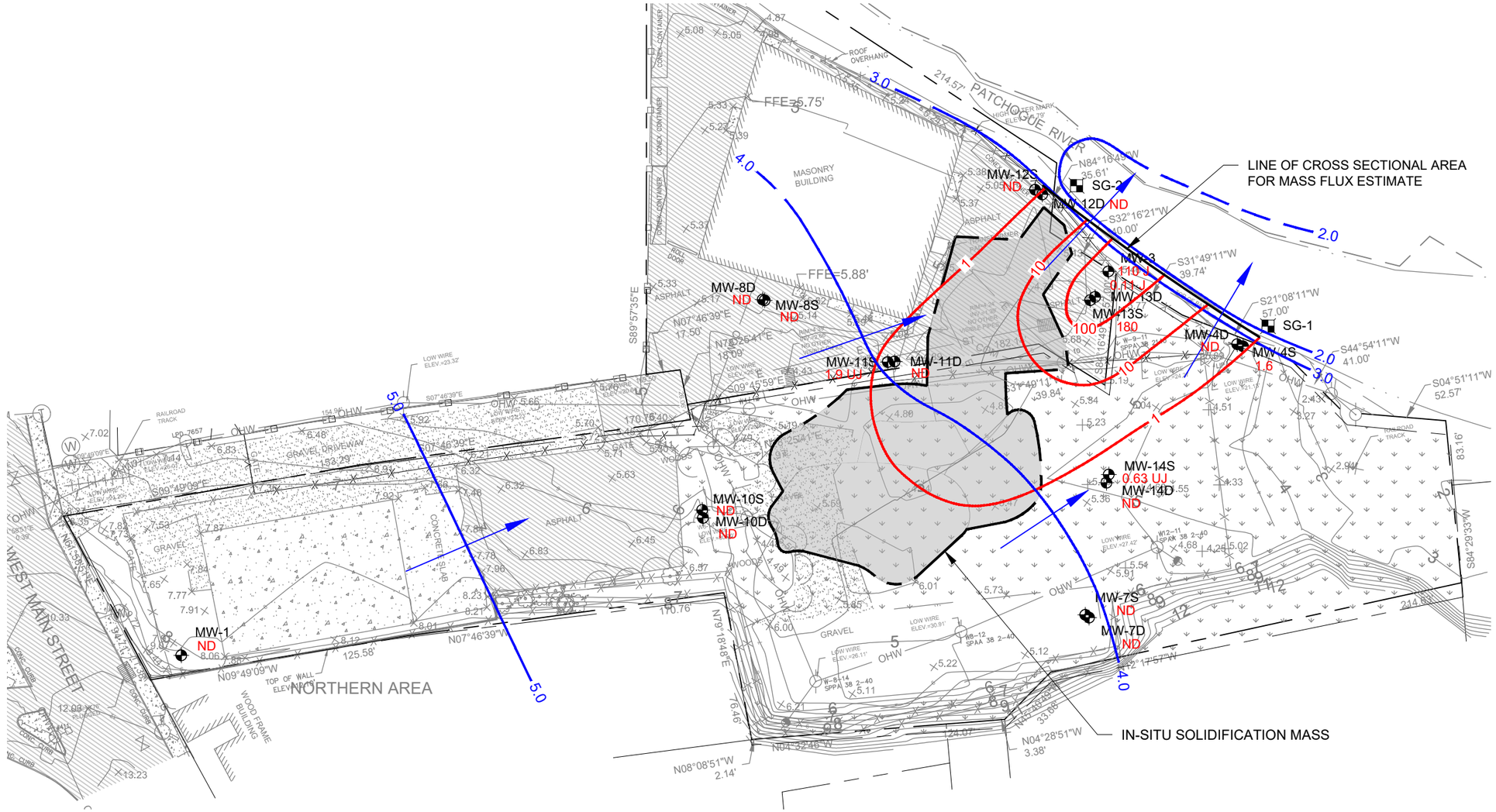
FIGURE

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

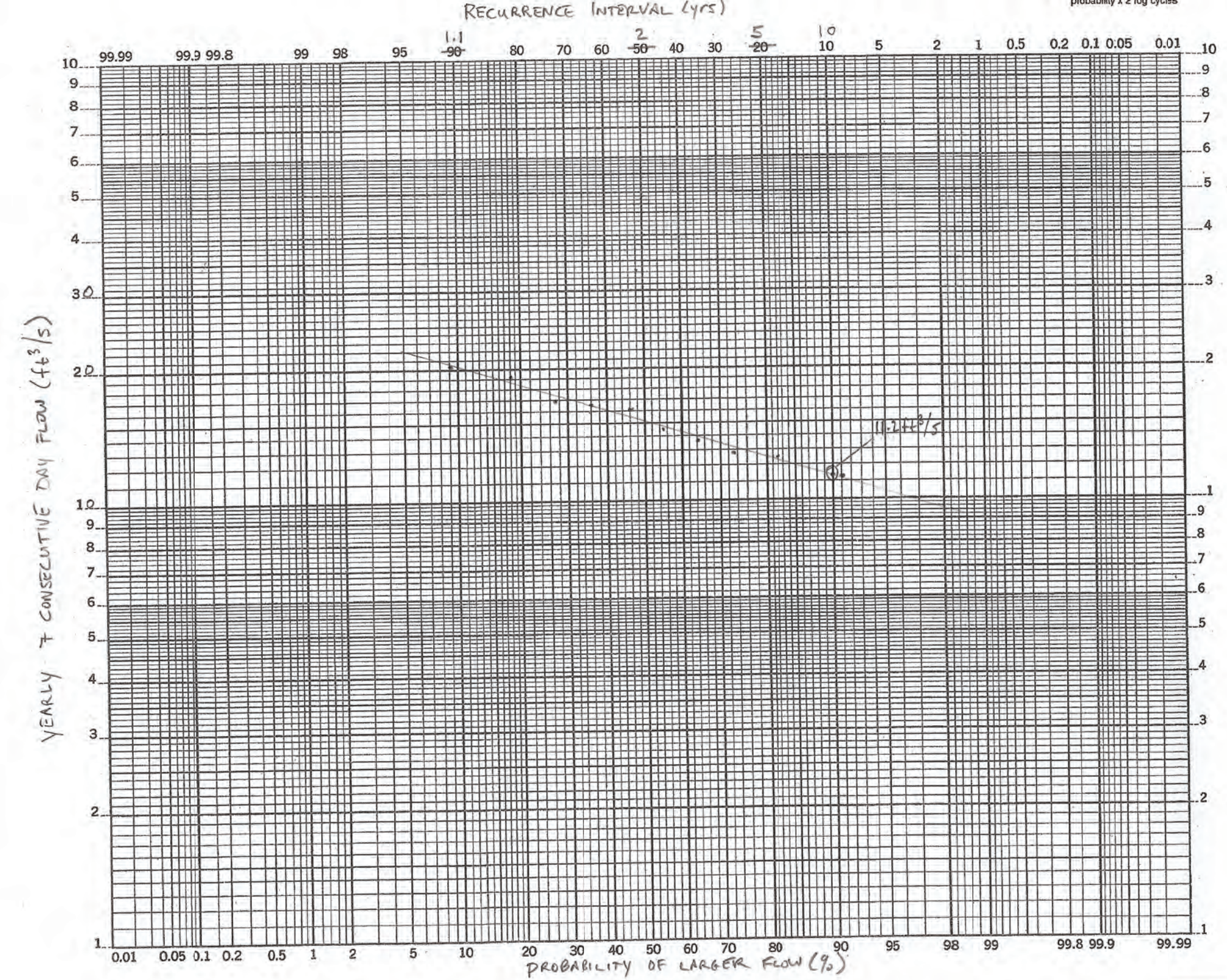
NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

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.

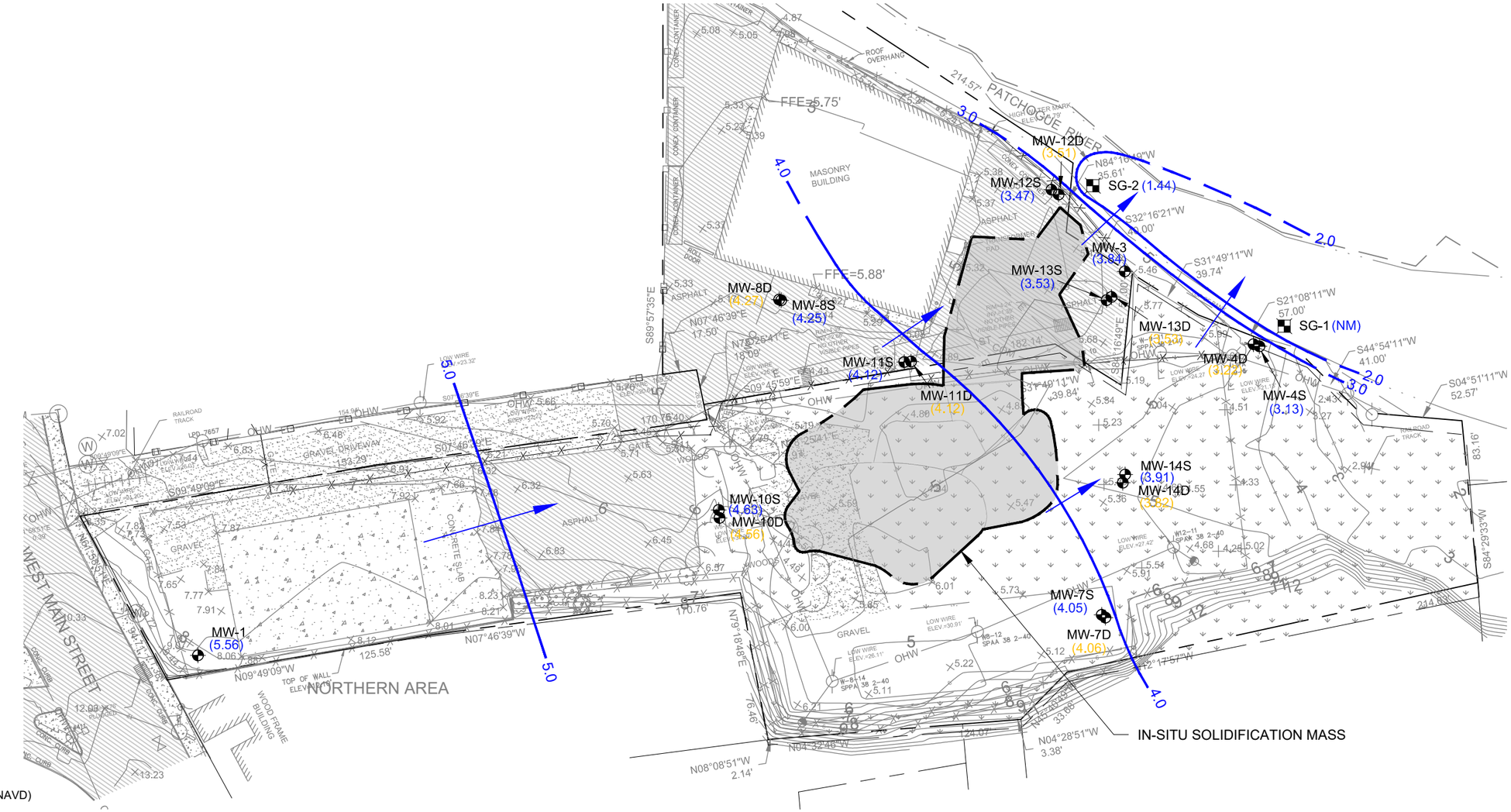
ft^3/s - cubic feet per second

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

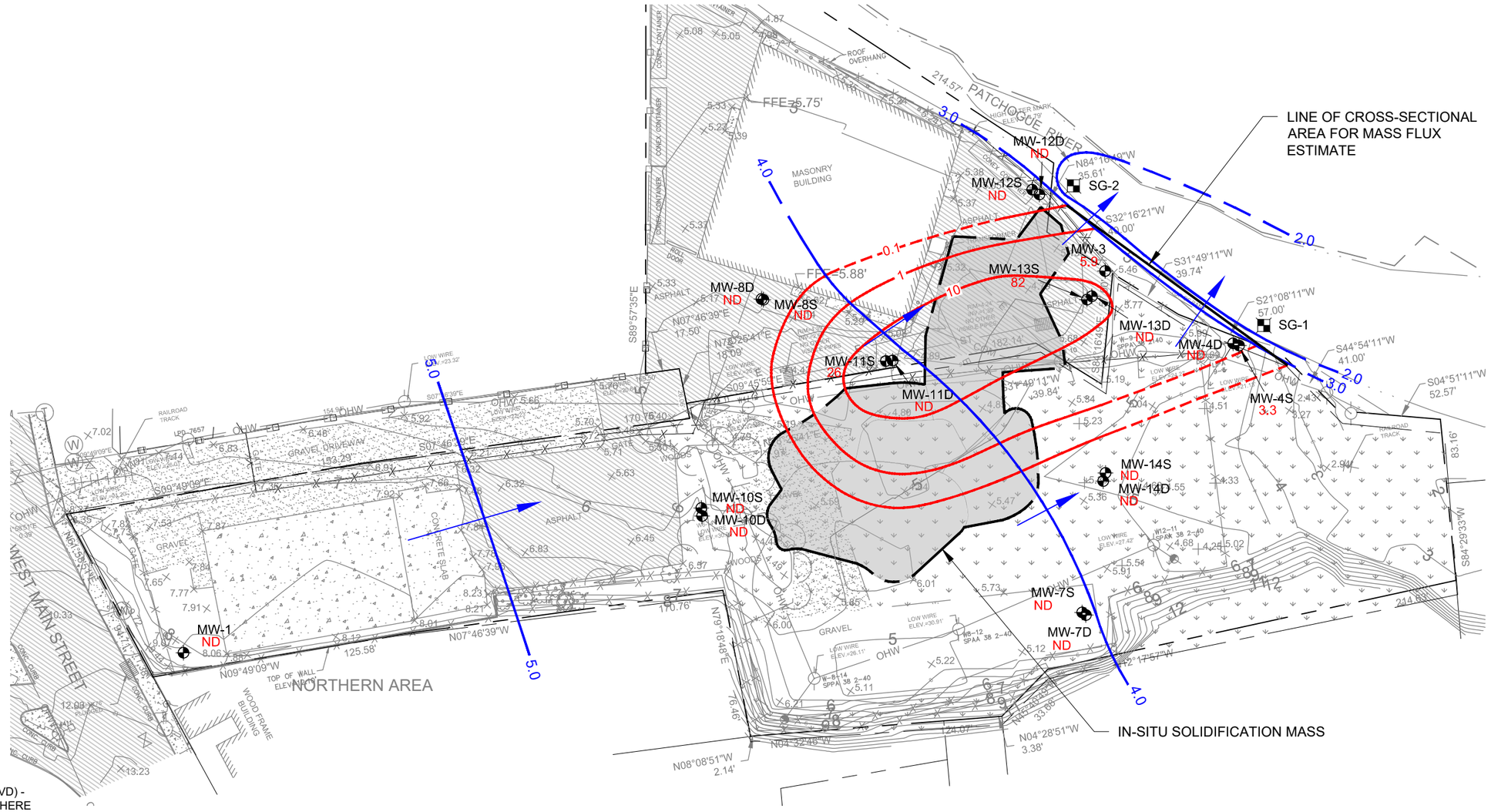
NORTHERN AREA

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

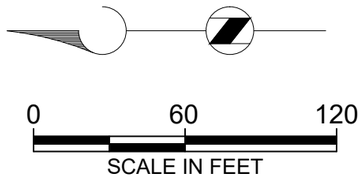
TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

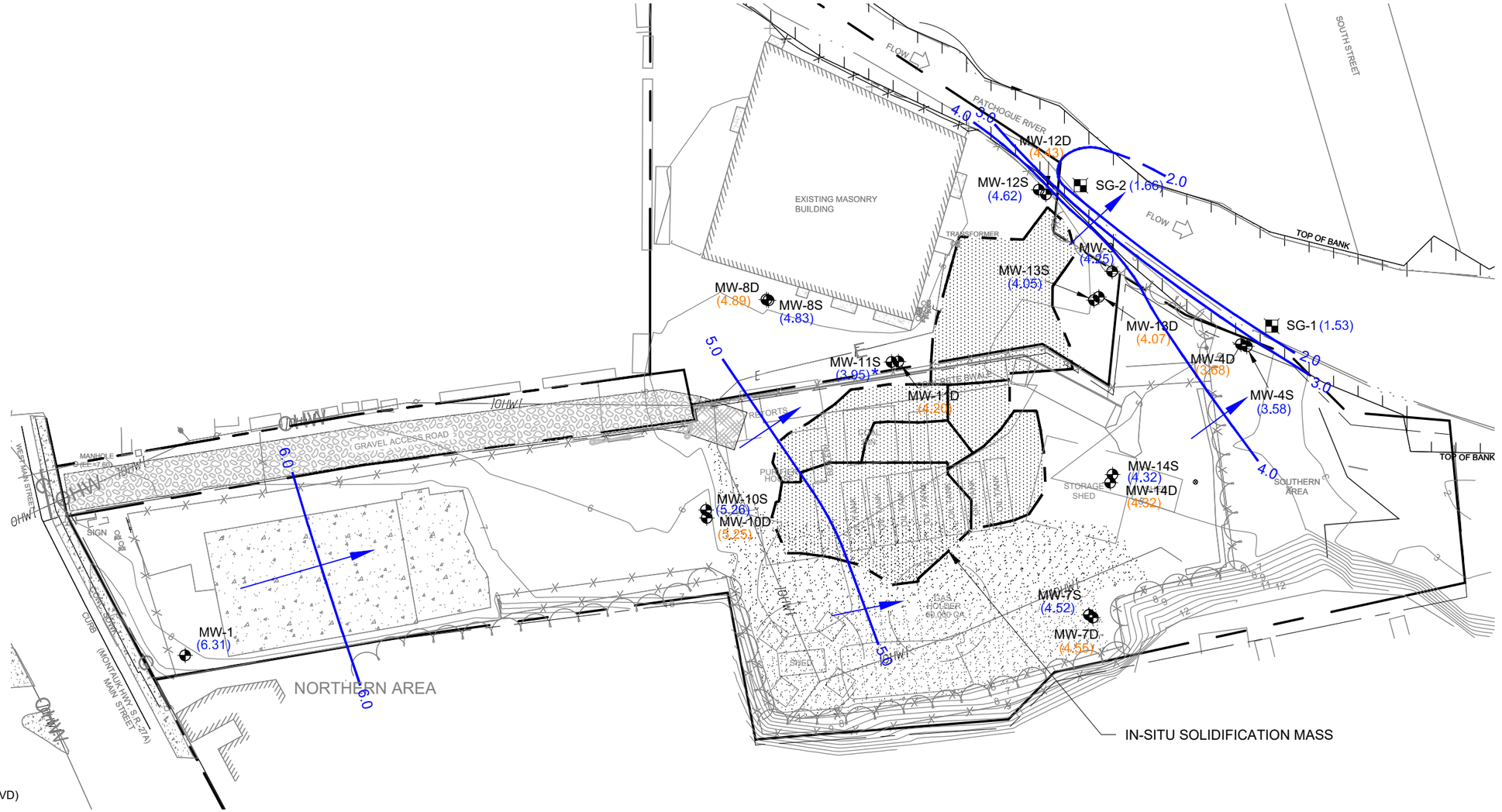
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

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

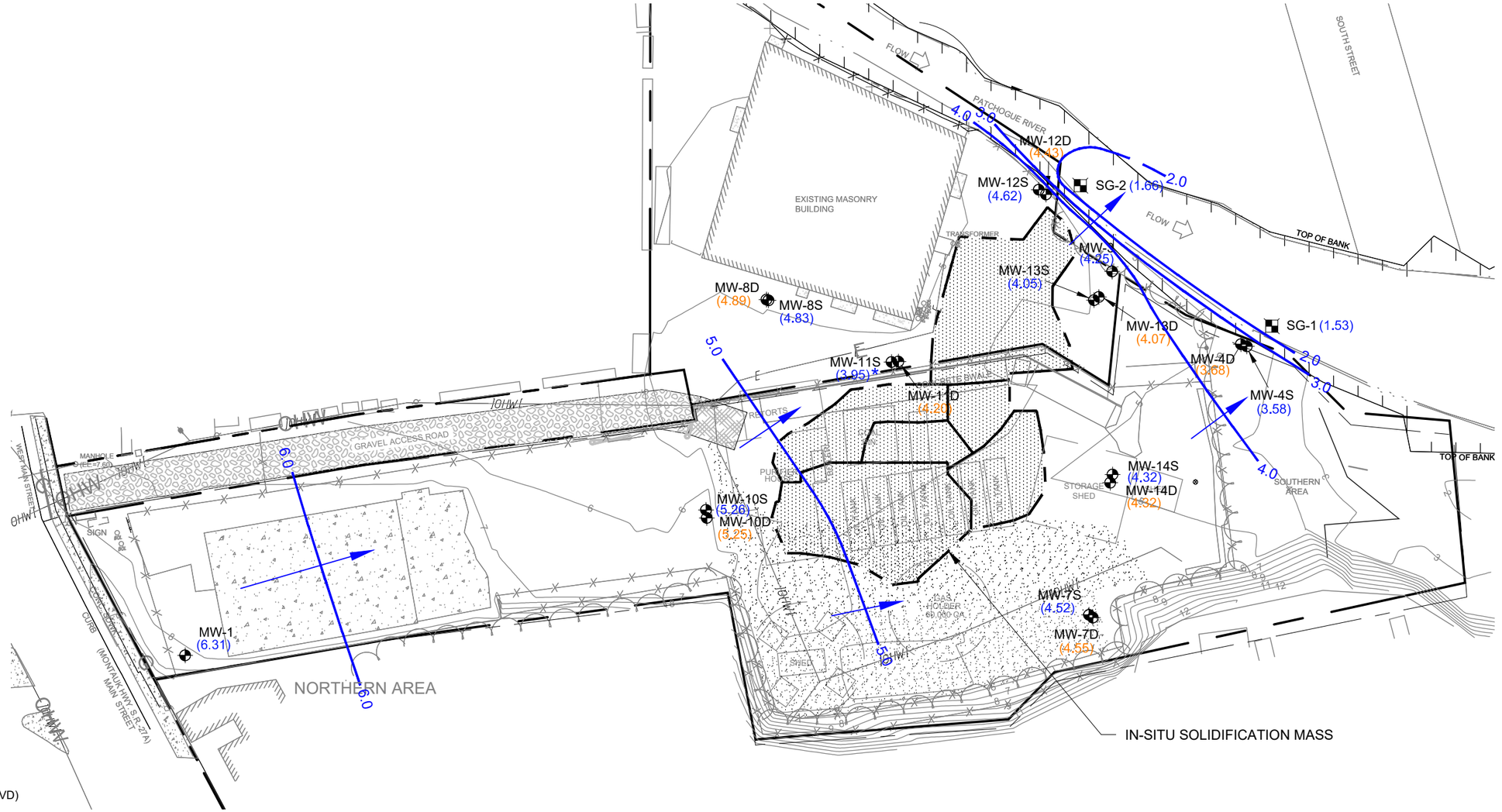
Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

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